

DRAFT DESIGN REPORT - Volume 3

PIN 4940.T7

JANUARY 2014



City of Rochester, Department of Environmental Services



New York State Department of Transportation



Stantec

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Visual Impact Assessment

Inner Loop East Transformation Project South Clinton Avenue to East Main Street City of Rochester, Monroe County, New York P.I.N. 4940.T7



December 2013 PN 192500295

VISUAL IMPACT ASSESSMENT - DRAFT

December 2013

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1.0 Project Description

The action to be evaluated by this visual impact assessment is the removal of the Rochester Inner Loop Expressway and the establishment of a community-scale urban street that will reestablish the original street grid system. The action focuses on the section of the Inner Loop from South Clinton Avenue north to East Main Street. This southeast section of the Inner Loop exhibits infrastructure significantly overbuilt for the transportation needs and represents a physical barrier between Rochester's Center City and the southeast neighborhoods.

The primary objectives of this project are to reconnect neighborhoods, spur economic development and provide an appropriately scaled urban street by the elimination of a grade separated, access controlled expressway facility.

The design alternative under consideration provides for the reconstruction of Union Street and complete removal of the Inner Loop between Monroe Avenue and Charlotte Street. This alternative would eliminate bridges at East Avenue, Broad Street and Monroe Avenue and reduces the number of travel lanes from twelve lanes to no more than five lanes. Components of the design alternative under review include signalized intersections, a cycle track, on-street parking, pavement reduction, drainage improvements, pavement markings, and sidewalk, lighting and landscaping installations. The alternative under review also considers how the proposed road alignment and amenities will encourage and facilitate future development.

For purposes of this Visual Impact Assessment, it is assumed that any future development that occurs in the project area will conform to existing zoning regulations or design criteria specifically established for the area. And, if required by the City of Rochester, a visual impact assessment will be provided by the developer for any future projects.





2.0 Visual Environment of Project

2.1 EXISTING LANDSCAPE VISUAL CHARACTER

The Inner Loop is classified as an Urban Expressway on the National Highway System. Much of this roadway within the project area is significantly below the grade of adjacent roadways and uses. Therefore the primary view from vehicles traversing the corridor is one of a long concrete retaining wall.

The predominant land form within the project area is the man-made commercial environment. The commercial development lends a coarse-grained texture (see Lynch, 1981, Smardon, 1984) to the visible landscape. Along Union Street, between Lafayette Street and Chapman Alley, the predominant land use is residential. The architecture is a mix of multi-family, multi-story buildings and two story single family homes. This area of the project reflects a more cohesive visual character due to the style of architecture as well as the presence of large street trees. (Refer to Figure 1 – Land Use Map for clarification of the different land use areas.)

To properly evaluate the visual quality of the corridor, three basic criteria were employed. The criteria include vividness, intactness and unity. The visual impact of each varies depending on the view scope. If the corridor is evaluated based on the view obtained while driving the Inner Loop, we recognize a different level of criteria strength than if the site is evaluated on a larger scale within its greater surrounding context.

"The vividness or memorability of a landscape is derived by contrasting landscape components as they combine in striking and distinctive visual patterns" (Visual Impact Assessment, FHWA, Volume 2, 1988). The concrete retaining walls of the Inner loop present a monotonous view and therefore not a memorable one. The manmade development within the project area offers numerous contrasting visual elements, which negate the overall "vividness" of the visual quality of the area.

"Visual intactness refers to both the integrity of visual pattern and the extent to which the landscape is free from visually encroaching features" (Visual Impact Assessment, FHWA, Volume 2, 1988). Due to the high quantity of encroachments that include varied building sizes, styles, color, condition and textures; bridges subdividing the site; elevation changes of the InnerLoop; large parking lots being juxtaposed next to buildings and the sporadic use of street trees, any chance of intactness has been eliminated.





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"Unity is the degree to which the visual resources of the landscape join together to form a coherent harmonious visual pattern" (Visual Impact Assessment, FHWA, Volume 2, 1988). On a site specific scale, unity is achieved to a minor extent with the residential area due to the street trees, scale of buildings and building materials. On a larger scale, the existing landscape does not offer a sense of unity due to a lack of any unifying elements be that street trees, building locations, materials and/or height, lighting or elevation. The visual unity of the project area is actually hindered due to the location and elevation of the Inner Loop, long lengths of railing and varying heights of light poles.





3.0 Visual Resources

3.1 Visual Evaluation

"The visual resources of a landscape are the stimuli upon which actual visual experience is based. "A highway project can alter the visual experience by changing the visual resource base" (Visual Impact Assessment for Highway Projects, March 1981).

The Project View Shed Map (Figure 2) illustrates the area that will be visually impacted by the proposed project. This map depicts the viewshed and visual features as seen primarily from the adjacent uses. There is an argument to be made that there is a separate viewshed for those actually traveling on the Inner Loop. That viewshed is severely limited by the high retaining walls on either side of the roadway. For purposes of this visual analysis, the viewshed at the grade of the adjacent uses will be considered because that is the viewshed that will remain once the project is constructed.

The landscape components (landform, water, vegetation and man-made development) of the existing the overall project view shed includes the man-made environment and a topography with little grade change, other than that of the Inner Loop. The viewshed is quite wide and linear. Large expanses are visible from the majority of the area within the project corridor.

The striking architecture of the National Museum of Play, especially the Butterfly House, is distinctly identifiable as an important location. The view of this structure should be maintained and enhanced if possible.



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There are other visually sensitive resources within the project area that should be considered as part of this visual analysis. Those resources are buildings that are National Register Eligible (NRE) or Listed (NRL). The buildings are located at the following addresses. (Refer to Project Viewshed Map, Figure 2).

- 1. 84 South Union Street
- 2. 68 South Union Street
- 3. 8 Lafayette Park
- 4. 7 Lafayette Park
- 5. 62 North Union Street (New Hope Free Methodist Church)
- 6. 324 East Avenue (Bethel Christian Fellowship)
- 7. 320 East Avenue

As stated in the Phase IB Archaeological and Architectural Reconnaissance Survey prepared by the State University of New York at Buffalo, dated May 2013, there are eight additional NRE and/or NRL sites that are within the project viewshed. These sites are located on the very edge of the viewshed, and the impact of the views to and from the structures is negligible.

- 8. 302-304 University Avenue
- 9. 200 University Avenue (School 14)
- 10. 270 Scio Street (New Bethel CME Church)
- 11. 261-263 Lyndhurst Street
- 12. 420 South Clinton Avenue (ABVI Goodwill)
- 13. 75 Woodbury Boulevard (Geva Theater)
- 14. 238-242 South Avenue

The most striking visual changes within the project area will be those locations where the view of the below grade Inner Loop is most evident. An example location would be the Union Street on-ramp to the Inner Loop.



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An evaluation of the above noted features that form the fabric of the existing visual resources resulted in the selection of a key view of the transportation corridor. Analysis of this critical viewpoint that intimately corresponds to the viewer sensitivity determines how the proposed action affects the integrity of the overall visual resource.

4.0 Viewer Groups and Viewer Exposure

4.1 VIEWER GROUP DESCRIPTION

The visual impacts of the proposed project are evaluated according to the perspective of the public most likely to "use" the travel corridors and include those who will "see" the visual resources from within and without the project area. With respect to user/view groups, raising the Inner Loop to grade and re-establishing the former Union Street alignment serves various purposes. The project will reconnect neighborhoods and provide an appropriately-scaled urban street by the elimination of a grade separated, access controlled expressway facility. Moreover, a designated bicycle system (cycle tack) will be established.

Identified view groups are shown in Table 1 below.

TABLE 1 – VIEWER GROUP SENSITIVITY				
Group A Viewers		Group B View	ers	
Arranged in order of viewer sensitivity:		Arranged in order of viewer sensitivity:		
 Bicyclists Visitors/Tourists Local Traffic Commuter Traffic 	High Low	 Pedestrians Residents Commercial 	High Low	

"Group A" viewers are derived from the group of users who may not reside in the vicinity of the project, but experience the view/corridor from the road. These viewers are people who would be traveling either to the project area or through the project area. For example, if someone were traveling to the project site to shop or visit service facilities or a resident but does not live in the area, he/she would be a Group A viewer. Another example would be a group of people commuting to another destination passing through the project area. This group of viewers will most likely not be present in the area long enough to fully view their surroundings. If they are traveling through the site, it is most logical that their focus would primarily be on the destination. Typically a "Group A" viewer uses the quickest route through or into the area so traffic speeds and congestion are a hindrance to truly appreciating the overall site.

"Group B' viewers are predominately the local users living and/or working in the general project vicinity and having a view of the road corridor. These viewers are much more cognizant of their local surroundings. They are typically traveling through the area at a much slower speed on local roads and/or as bicyclists/pedestrians. The basic understanding is that because these

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users are more fully experiencing their surrounding environment, either consciously or subconsciously, they stake a higher claim in any visual changes within the project area.

4.2 VIEWER EXPOSURE

To determine which viewers will be most heavily impacted by the design alternatives, one must first determine which group is more sensitive to the existing environment. Table 1 gives a breakdown of the most prevalent users in each viewer group and ranks their level of sensitivity.

Viewers that are most sensitive to landscape changes are pedestrians, bicyclists, residents and commuters/local workers. These groups have the most time or opportunity to view their surrounding visual environment and may be engaged in leisure activity that would heighten visual awareness.

Viewers that are the least sensitive to changes in the visual environment are the visitors/tourists and commercial motorists. The visitors/tourists may be less cognizant of the environment within the site area because it is not intended to be an attraction area, and the concentration of traffic may encourage a hurried attitude. Commercial motorists will have a shorter duration of view due to focus and activity that is associated with their typical purpose of being in the area.

Presently there are visual resources in the project environment that are particularly important to local viewers. These resources are as follows:

- 1. 84 South Union Street
- 68 South Union Street
- 3. 8 Lafayette Park
- 4. 7 Lafayette Park
- 5. 62 North Union Street (New Hope Free Methodist Church)
- 6. 321 East Avenue (Bethel Christian Fellowship)
- 7. 320 East Avenue
- 8. 302-304 University Avenue

The project will support expectations for the future appearance of the area in that it will improve the overall visual quality of the corridor, thereby improving the visual experience of pedestrians, bicyclists, residents, tourists and motorists alike.

5.0 Project Appearance and Visual Impacts

Visual impacts and the viewer response to those impacts under the proposed build alternative are measured against the existing conditions that articulate visual quality within the project view shed. Existing conditions are documented in Attachment A. A key view was selected to accurately depict the project alternative as it would actually be seen by the viewer. A photo simulation, viewpoint rendered from the initial key view, depicts effects of the proposed project alternative (See Attachment B). The following is a brief proposed appearance summary describing the design physical changes, visual resources changes, visual impacts and potential mitigation techniques.

5.1 DESIGN ALTERNATIVE

The preliminary design development has narrowed the alternatives to one feasible build alternative (see Figure C) and one null alternative (or no build alternative). The Null Alternative is retained and employed as a baseline for gauging the impacts of the build alternative (Alternative 1).

Under the Null Alternative, the existing infrastructure would be retained as is. The existing infrastructure will continue to act as a barrier between neighborhoods and a deterrent to economic development. Moreover, on-going maintenance for an underutilized transportation facility will be required.

Alternative 1: Remove the Inner Loop. This alternative transforms the limited access expressway to a community-scale urban street that will re-establish the street grid system. This option includes complete removal of the Inner Loop to grade between Clinton Avenue and Charlotte Street. This alternative eliminates bridges at East Avenue, Broad Street and possibly Monroe Avenue, and reduces the number of travel lanes from twelve lanes to no more than five lanes. Additionally, on-street parking, bicycle facilities (cycle track), street tree plantings and street lighting will be provided. Ultimately this alternative eliminates underutilized assets/infrastructure, reduces future capital expenses associated with maintenance efforts, and reconnects neighborhoods that were separated during the 1960's when the Inner Loop was constructed. Furthermore, this alternative provides area for future development. Any proposed development should be done in such a manner as to reinforce the streetscape and urban feel as established on the east side of Union Street.

5.2 PROPOSED APPEARANCE SUMMARY

5.2.1 Key View 1 – Existing Intersection of Union Street and the Inner Loop

User Perspective: Motorists, Bicyclists, Pedestrians

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Design Physical Changes

- Inner Loop brought to grade
- Pavement reconfiguration
- Green space/future development area
- Pavement markings and signage
- Cycle track

Visual Resource Changes Due to Design

- View shed area at same approximate grade
- Streetscape plantings
- Street lighting in keeping with the character of the area
- Street lighting at grade of Union Street. (Existing street light fixtures on the Inner Loop are at approximate eye level when viewed from the surrounding areas.)
- Large green space until such time as development occurs
- Unified streetscape once development does occur
- · Removal of guide rails that block views

Potential Mitigation

- Minimize glare from street lighting that can be seen from adjacent residential units
- Locate plantings to enhance views of structures considered to be cultural resources.
- Introduce specialty pavements, possibly within the cycle track and/or sidewalk areas, to minimize the visual impact of the pavement area.

Visual Impact

The raising of the Inner Loop and the corresponding reduction in pavement will allow the motorist to experience the views from the travel way due to the imposed reduction of speed. The proposed roadway configuration will create a visual quality of intactness and unity by providing motorists, pedestrians, bicyclists and adjacent uses a view not interrupted by the below grade Inner Loop. A sense of unity will also be achieved by the use of street trees and lighting throughout the corridor.

5.2.5 General Visual Impacts

The impact to the project area visual environment due to the construction of the proposed improvements was assessed by reviewing changes to the affected visual resources. The review included the analysis of planimetrics and cross-sectional views and the design of a photosimulation of the key view point along the travelway.

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In general, the following visual changes will occur:

- There will be a decrease in paved roadway surface and a corresponding increase in green space. The paved roadway will become less dominant in scale relative to the corridor's viewshed than current conditions.
- Having the area at approximately the same grade will enhance the views north-south and east-west.
- Removal of guiderails will unify the views from east and west.
- The introduction of trees will serve to frame views, screen undesirable uses and enhance the overall visual experience throughout the corridor.
- The elimination of bridges and the subsequent provision of at-grade interactions will provide a sense of unity and continuity between neighborhoods.
- The use of a standardized street light will provide a unifying visual element with the corridor.



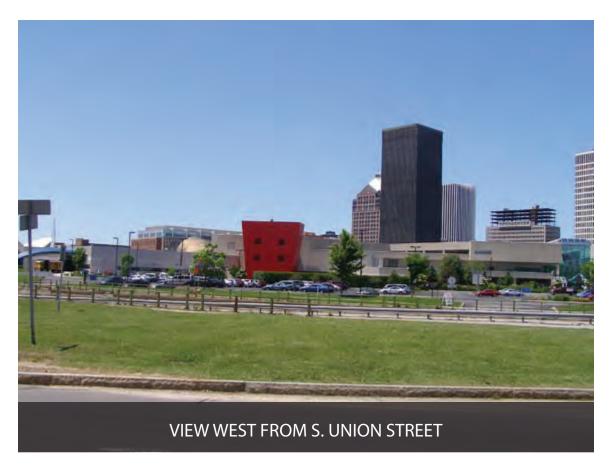


VISUAL IMPACT ASSESSMENT
LAND USE MAP
FIGURE 1





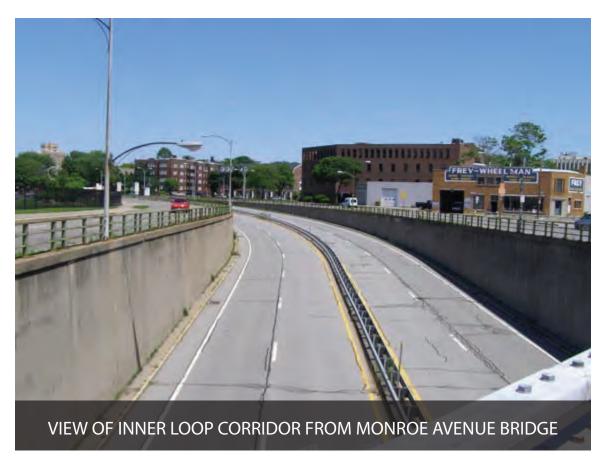










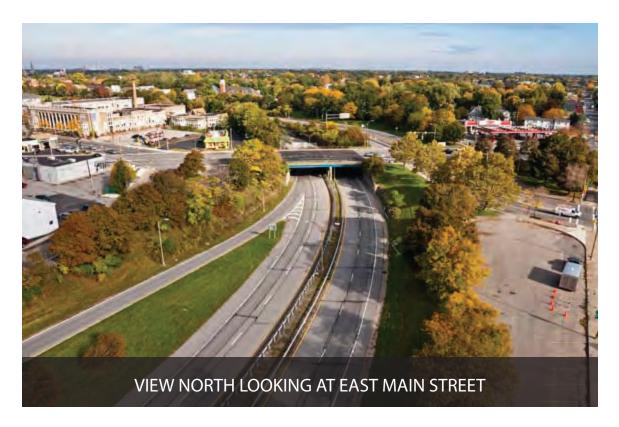


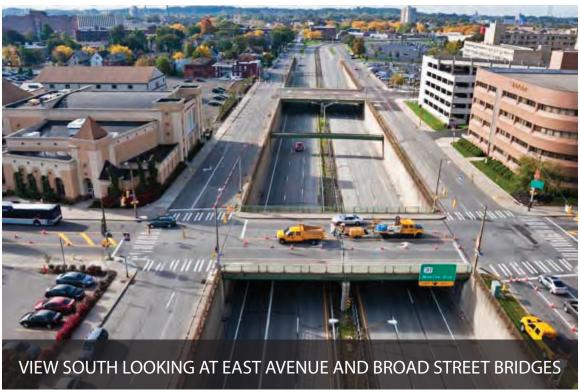






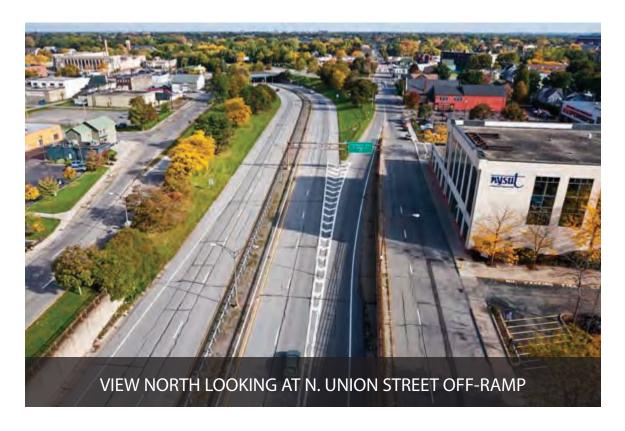
VISUAL IMPACT ASSESSMENT EXISTING CONDITIONS ATTACHMENT A

















APPENDIX J

Hazardous Waste / Contaminated Material Screening

PRELIMINARY SCREENING REPORT

FOR THE

HAZARDOUS WASTE/CONTAMINATED MATERIALS ASSESSMENT

OF THE

INNER LOOP RECONSTRUCTION PROJECT SOUTH CLINTON AVENUE TO SCIO STREET CITY OF ROCHESTER, MONROE COUNTY PIN 4940.T7

VOLUME I of II

JULY 2013

PREPARED FOR:
STANTEC INC.
61 COMMERCIAL STREET
ROCHESTER, NEW YORK 14614

FOR SUBMISSION TO:
CITY OF ROCHESTER
30 CHURCH STREET
ROCHESTER, NEW YORK 14614

AND

NEW YORK STATE DEPARTMENT OF TRANSPORTATION 50 WOLF ROAD ALBANY, NEW YORK 14203



PRELIMINARY SCREENING REPORT

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CITY OF ROCHESTER 30 CHURCH STREET ROCHESTER, NEW YORK 14614

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EXECUTIVE SUMMARY

A Hazardous Waste/Contaminated Materials (HW/CM) Assessment was completed by Watts Architecture & Engineering (Watts) for the Inner Loop Reconstruction Project, City of Rochester, Monroe County, New York (PIN 4940T7). This report was prepared for the City of Rochester in technical support of the proposed construction project. Assessment activities included interviews with government agencies and persons knowledgeable with the roadway corridor, a corridor inspection, and a review of various government and historical records.

The feasible alternatives being investigated under this assessment are to either reconstruct/rehabilitate or remove the expressway. The preferred alternative is focused on the elimination of the depressed Inner Loop Expressway around the southeast portion of the City and provding an at-grade boulevard in its place.

Thirty-five sites (A through II) were identified in this Preliminary Screening Investigation Report prepared for the Hazardous Waste/Contaminated Materials (HW/CM) Assessment that may pose environmental risk to the Inner Loop study area. These sites are recommended for possible further investigation if the chosen design alternative will require excavation of subsurface soils, installation of underground utilities, or right-of-way acquisition in these areas.

Recommendations for further work will require modification depending on the final design plans. Once the design alternative has been developed, a Field Sampling Plan (FSP) should be prepared for the performance of a subsequent Detailed Site Investigation (DSI).

The Inner Loop has been an active expressway for approximately 50 years and the area has been a developed urban area since the late 1800's. Due to the urban nature of the project study area, urban/industrial fill is likely present throughout the corridor. This fill was placed at a time when environmental laws were not in place; therefore, there is a potential to encounter historic contaminated fill from unknown sources anywhere along the corridor where backfill materials were used.

Twenty-three (23) of the thirty-five sites contain or have contained petroleum USTs/ASTs or have documented petroleum spill records on file. There is also an elevated potential that these twenty-three sites may have abandoned and unmarked USTs within the site because of known or suspected former use as petroleum storage sites.

Thirty-two (32) of the thirty-five sites are or have been auto repair shops or manufacturing facilities including metal shops, rubber stamp manufacturer, coal and coke companies, photo studios, and printers. In addition, eight (8) of the thirty-five sites are or have been dry cleaners. All of these are types of business that may contribute to contamination of the site soils and groundwater.

If construction work that includes excavation of subsurface soils or the acquisition of private property is anticipated for any of these sites, we recommend an environmental investigation, sample collection, and laboratory analysis to determine whether soil contaminated with industrial type compounds, petroleum or chlorinated solvents is present.

1.0 INTRODUCTION

Watts Architecture & Engineering (Watts) was retained by Stantec, Inc. (Stantec) to perform a preliminary screening for the Hazardous Waste/Contaminated Materials (HW/CM) Assessment of the Inner Loop Reconstruction Project, City of Rochester, Monroe County, New York (PIN 4940T7). This report was prepared for the City of Rochester in technical support of the proposed construction project.

1.1 Project Description

The proposed project involves the reconstruction of the eastern portion of the Inner Loop from South Clinton Street to East Main Street and raising a portion of the corridor (Monroe Avenue to Charlotte Street) to an at-grade boulevard. This report considers the project limits defined by Stantec. The project corridor is shown on Figure 1.

1.2 Purpose

The purpose of the preliminary screening phase of the HW/CM Assessment is to identify potential areas of contamination that may be excavated or impacted by construction. The second phase of the HW/CM Assessment, if warranted, is used for soil (or other material) characterization to determine disposal requirements for excavated soil and to identify environmental concerns that could affect the public or worker safety. It is common practice and good environmental policy to identify potential areas of contamination to avoid unexpected costs and significant delays during the construction of a project.



Figure 1 – Project Location Map

City of Rochester, Monroe County, New York Inner Loop Reconstruction Project

Not to Scale

July 2013



Watts Architecture & Engineering 95 Perry Street Buffalo, New York

Source: Google Maps - 2013

2.0 SCOPE AND METHODOLOGY

This preliminary screening conforms to the procedures recommended in NYSDOT's <u>The Environmental Manual</u> (TEM) (including all updates), Section 4.4.20, Hazardous Waste Assessments which is the reference standard for this type of work. The screening consists of collecting information through a record search to investigate previous activities and site uses in the corridor, a review of government databases and records, a field inspection, and interviews with local residents, employees, government personnel, and other knowledgeable individuals. A complete list of sources referenced in this report is found in **Attachment A**.

2.1 Investigation of Previous Activities and Site Use

A records search is conducted to determine past or current land uses on and in the immediate vicinity of the project corridor that may be of environmental concern. The following sources were used to evaluate potential environmental concerns on the project corridor:

2.1.1 USGS Topographic Maps

The 1898, 1912, 1920, 1935, 1952, 1969, 1971, and 1978 Rochester East, Quadrangle maps were obtained from Environmental Data Resources, Inc. (EDR), an independent research firm. These maps provide a historical reference to land use in addition to showing prominent structures, roadways, bodies of water, and topography.

2.1.2 Historic Land Use Maps

The following atlases were reviewed online at Historic Map Works (www.historicmapworks.com) and Ward Maps websites (www.wardmaps.com) online:

- 1875 Atlas of Rochester, NY
- 1888 Atlas of the City of Rochester, NY
- 1910 Atlas of the City of Rochester, NY
- 1918 Plat Book of the City of Rochester, NY
- 1935 Plat Book of the City of Rochester, NY

The entire project corridor is not covered by all of the atlases.

2.1.3 Sanborn Fire Insurance Maps

The 1892, 1912, 1938, 1950, and 1971 Sanborn Fire Insurance Maps were obtained from EDR. These maps provide a historical reference to land use, building type, businesses present, in addition to showing prominent structures and roadways.

2.1.4 City Directories

Watts reviewed the following City of Rochester, Monroe County, New York, City Directories: 1926, 1930, 1935, 1940, 1945, 1950, 1955, 1960, 1965, 1970, 1975, 1982, 1985, 1992, 2000, 2008, and 2012. The city directories were obtained from EDR.

2.1.5 Aerial Photographs

Aerial photographs dated 1938, 1958, 1966, 1971, 1980, 1994, 2006, 2008, 2009 and 2011 were obtained from EDR.

2.1.6 Soil Survey of Monroe County

The Monroe County Soil Survey was reviewed online to determine the different soil types and their distinct characteristics present in the project corridor.

2.2 Review of Government Records and Databases

The government records search included a review of federal, state, and local government databases of known or suspected inactive hazardous waste sites; petroleum and chemical bulk storage tank sites; reported spills, including leaking underground storage tanks; and hazardous waste generation sites.

Environmental Data Resources, Inc. (EDR), an independent research firm, was employed to perform a United States Environmental Protection Agency (USEPA) and New York State Department of Environmental Conservation (NYSDEC) database search for the proposed project corridor. The EDR report is found in Attachment C.

The federal and state databases searched and the specified radii from the project corridor are summarized below:

- National Priorities List (NPL) 1.0 mile
- National Priorities List Delisted (NPLD) 1.0 mile
- Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) – 0.50 miles
- No Further Remedial Action Planned Sites (CERC-NFRAP) 0.50 miles
- Corrective Action Sites (RCRA COR) 1.0 mile
- Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal Sites (RCRA TSD) – 0.50 miles
- Resource Conservation and Recovery Act (RCRA) Large and Small Quantity Generators (RCRA GEN) – 0.25 miles
- Federal Institutional and Engineering Controls (Fed IC/EC) 0.50
- Emergency Response Notification System (ERNS) target property

- NYSDEC Registry of Inactive Hazardous Waste Disposal Sites (STATE) 1.0 miles
- State/Tribal Solid Waste Landfills (SWL) 0.50 miles
- State/Tribal Leaking Underground Storage Tanks (LUST) 0.50 miles
- State/Tribal Storage Tanks (UST/AST) 0.25 miles
- State/Tribal Institutional & Engineering Controls (IC/EC) 0.50 miles
- State/Tribal Voluntary Cleanup Program (VCP) 0.50 miles
- State/Tribal Brownfield 0.50 miles
- Federal Brownfield 0.50 miles
- Hazardous Materials Information Reporting System (HMIRS) 0.25 miles
- NYSDEC Spills (SPILLS & HIST SPILLS) 0.25 miles
- No Longer Regulated (RCRA NLR) target property
- Toxic Chemical Inventory Release System (TRIS) target property
- Toxic Substances Control Act (TSCA) target property
- FIFRA/TSCA Tracking Systems (FTTS) target property
- Integrated Compliance Information System (ICIS) target property
- PCB Activity Database System (PADS) target property
- Material Licensing Tracking System (MLTS) target property
- Radiation Information Database (RADINFO) target property
- Facility Index System (FINDS) target property
- RCRA Administrative Action Tracking System (RAATS) target property
- Risk Management Plan (RMP) target property
- Hazardous Substance Waste Disposal (HSWDS) 0.25 miles
- Hazardous Waste Manifest (Manifest) 0.25
- Drycleaners 0.25 miles
- National Pollution Discharge Elimination System (NPDES) 0.25 miles
- Tribal Lands 1.00 miles
- Potentially Responsible Party (PRP) target property
- Aerometric Information Retrieval System (AIRS) target property

Watts also reviewed in-house data including NYSDEC, Division of Environmental Remediation, Freedom of Information Law (FOIL) CD-ROM dated April 1, 2003 and the NYSDEC Environmental Remediation Databases on their website.

Additional site information was also obtained through data searches of local agency files. These files were reviewed to determine past environmental problems, engineering studies, utility locations, and property ownership/boundaries. Watts made the following contacts:

- City of Rochester Department of Environmental Services for hazardous materials information;
- City of Rochester Fire Department for hazardous materials information; and

 Monroe County Department of Environmental Health for hazardous materials information.

2.3 Field Inspection

A site walkover reconnaissance of the subject property was conducted on June 5th, 2013. The field inspection is a walkover of the project corridor to observe potential locations of contamination that may be environmental concerns and affect the design or construction of a project. Potential environmental concerns may be identified by: stained or discolored soil or building foundations; distressed, dead, or absence of vegetation; air emissions or odors; discolored or sheened surface water or ground water discharges; evidence of previous fill placement or waste disposal; and evidence of previous fires. Additional concerns may be identified by: evidence of former or existing underground storage tanks; aboveground storage tanks; monitoring wells; pipes or pipelines; 55-gallon (208 L) drums or other evidence of bulk chemical storage and disposal; old pump islands; possible PCB storage, including transformers and former transformer pads; railroad tracks; sumps or septic systems; and pits, lagoons, or other surface impoundments.

Selected photographs taken during the field inspection are found in Appendix B. The project corridor is located in an area of the City of Rochester that has been developed for over 100 years. The majority of the property currently surrounding the corridor is either commercial or residential.

The subject property consists of a grade-separated expressway with three lanes of traffic in both direction. The majority of the Inner Loop in the project area was closed to traffic due to construction at the Clinton Avenue bridge over the Inner Loop. There are four roads that front the Inner Loop, Pitkin Street on the west side, Union Street on the east side, Lyndhurt Street on the north side and Howell Street on the south side.

In general, the east side of the corridor has commercial businesses along Union Street. Residential properties are found east of Union Street and north of Lyndhurst Street. There is a small area of residential properties around Winthrop Street on the west side of the subject corridor. Several parking lots are present along Pitkin and Union Streets. The west side of the corridor is part of the City of Rochester Central Business District containing mostly commercial businesses with some urban residential properties at the north end. The Strong Museum of Play is located on the west side of the project corridor at Chestnut Street. Two gas stations and several auto repair shops were observed along E. Main St. at the north end of the project corridor. Another auto repair shop is located at the southern end of the project corridor at Broadway Street.

The walkover discovered no evidence of concentrated dumping or material disposal along the project corridor. No evidence of petroleum sheen on the soil, ballasts, or any pooled water surfaces were identified. No tanks, fill ports, or old pump islands

were found immediately adjacent to the corridor. Subsurface soils would require investigation using a drill rig or soil excavation program to characterize their composition and any evidence of contamination in the subsurface, where materials are to be disturbed during construction.

2.4 Interviews

Government authorities were interviewed as sources of information regarding past and present land uses, potential contamination problems, and other relevant information regarding environmental concerns that may affect the project corridor. A list of formal contacts and sources reviewed is found in **Attachment A**. In addition, during the work within the corridor several visitors stopped by, some of which had some background knowledge of the corridor and its former business and associated operations.

3.0 FINDINGS

A property is included in this section if it showed the potential to be an environmental concern during one of the methods of investigation listed in Section 2.0. Available information from researched sources is listed for each property followed by an evaluation of impacts or potential impacts on the project corridor.

3.1 Specific Properties Considered to be Potential Environmental Concerns

The following properties are considered to be potential environmental concerns with respect to the project study area. The project study area and the location of each property of potential environmental concern to the proposed project are shown in Figures 2 and 3 by designated site letter. The addresses are taken from the Monroe County GIS Parcel Viewer. Photographs of the sites of potential environmental concern are included in Attachment B.

3.1.1 Site A: I-490 Inner Loop Expressway

Site Inspection

This site is currently the 1-490 Inner Loop Expressway a grade-separated expressway. Refer to Photos #1 - 5 in Attachment B.

Historic Maps

The Inner Loop is not depicted on any of the historic maps. The highway was constructed in the 1950's and 1960's. The area is depicted as part of the city with the roads being continuous roadways through the area that is now the Inner Loop. Buildings that were removed to make room for the highway are depicted along the roads.

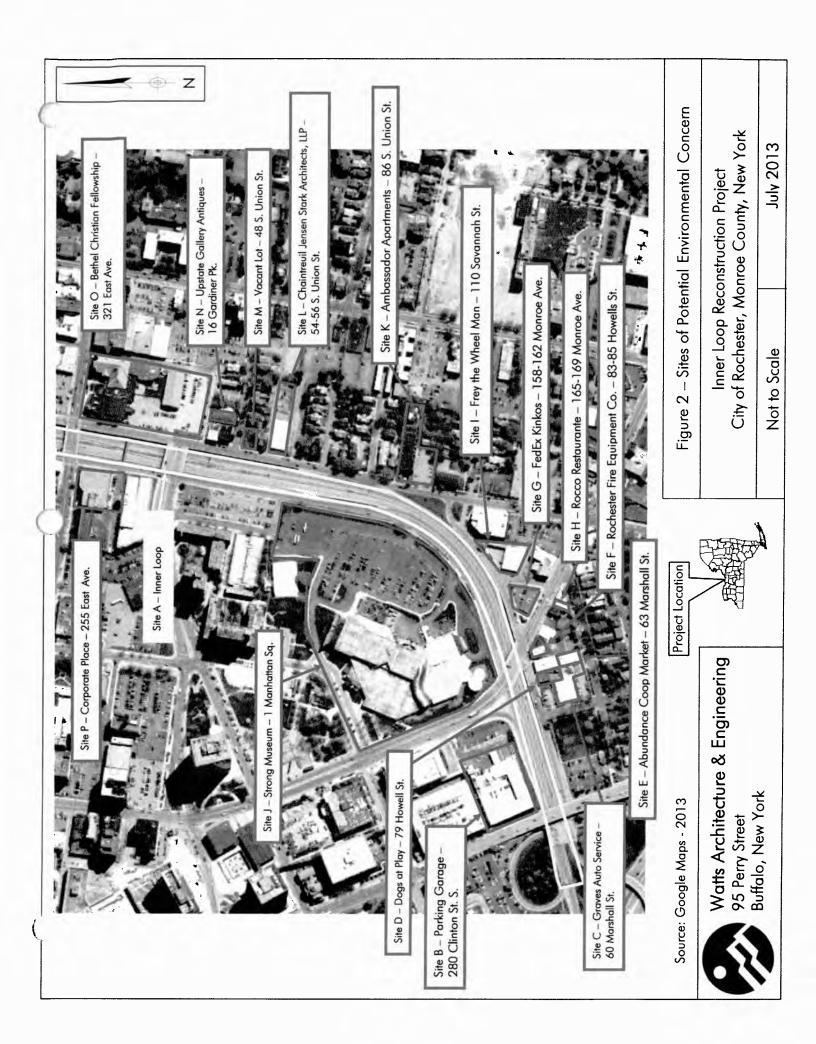
Sanborn Maps

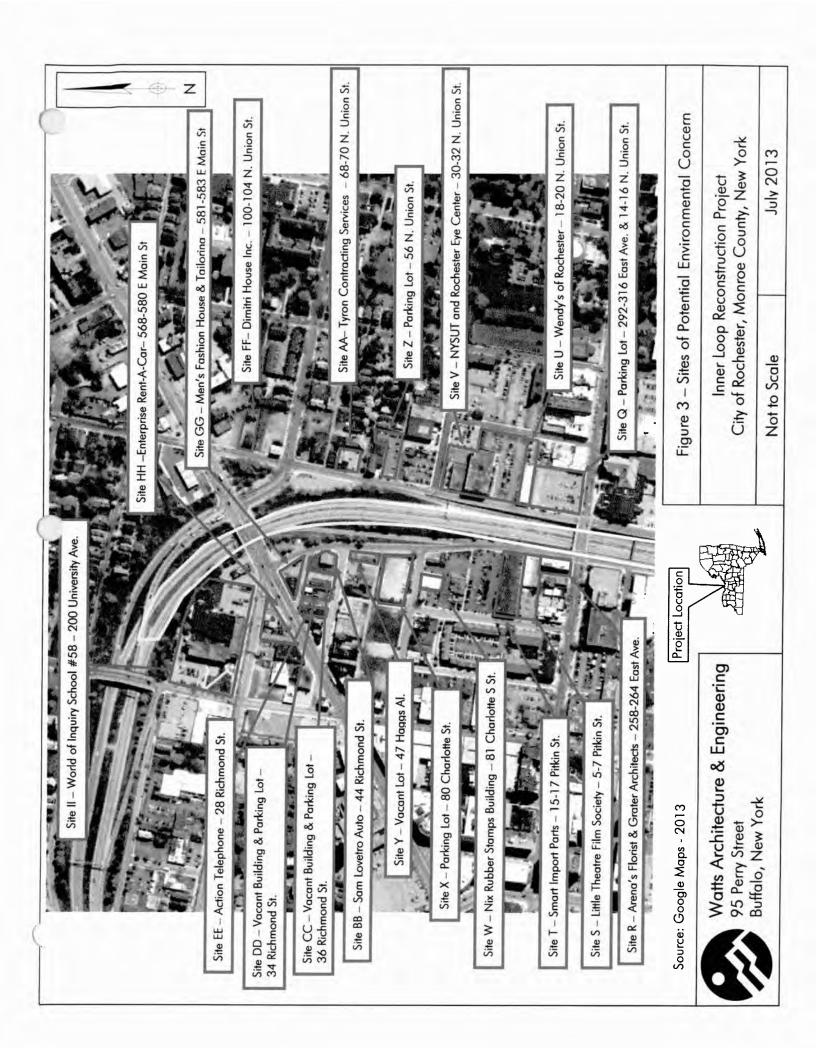
The Inner Loop is not depicted on the 1892, 1912, 1938, and 1950 Sanborn Fire Insurance Maps. Many of the roads which are now bisected by the Inner Loop are depicted as continuous roadways with businesses and structures along them including auto repair shops, gas station, auto sales and service facilities, tire sales, and dry cleaners. On the 1971 map, the Inner Loop is present in its current location. Many of the roads are now bisected and buildings have been removed to make way for the highway.

City Directories

The following businesses were identified for the addresses that used to exist on this site however; the structures were removed during the construction of the Inner Loop:

Years Listed	Address	Use
1930-1960	9 N Union St.	Gas Station, Used Car Lot
1950	19 N Union St.	Auto Repair Shop





Years Listed	Address	Use
1926-1960	21 N Union St.	Auto Repair Shop
1950-1960	33 N Union St.	Auto Sales and Service
1930-1950	51 N Union St.	Auto Sales and Service
1940-1950	13 S Union St.	Used Car Lot
1945	23 S Union St.	Used Car Lot
1926-1955	25 S Union St.	Auto Tire Shop, Dry Cleaner
1926	27 S Union St.	Auto Sales and Service
1930-1960	29 S Union St.	Used Car Lot
1935	31 S Union St.	Auto Repair Shop
1940-1960	35 S Union St.	Auto Sales and Service
1926-1960	37 S Union St.	Auto Sales and Service
1950-1960	41 S Union St.	Auto Sales and Service
1926-1940	286 East Ave.	Auto Tire Shop
1926-1930	265-271 East Ave.	Refrigerator Mfg.
1926-1960	270 East Ave.	Auto Tire Shop, Auto Repair Shop
1940-1945	602 E. Main St.	Used Car Lot
1930	598 E. Main St.	Auto Sales and Service
1930-1940	628 E. Main St.	Gas Station
1955-1960	632 E. Main St.	Auto Repair Shop
1940	622 E. Main St.	Auto Tire Shop
1940-1955	55 Richmond St.	Auto Repair Shop
1926-1960	51 Richmond St.	Auto Repair Shop
1926-1935	62 Richmond St.	Auto Repair Shop
1940-1960	291 University Ave.	Gas Station
1930-1935	297 University Ave.	Gas Station
1950	51 Haags Al.	Auto Repair Shop
1926-1950	55 Haags Al.	Car Wash
1926-1960	6 Pitkin St.	Auto Sales and Service
1935-1940	26 Pitkin St.	Auto Repair Shop

Aerial Photos

The Inner Loop is not depicted on the 1938 aerial photograph. The area is depicted as part of the city with continuous roads through the area that is now the Inner Loop but due to the scale it is not possible to determine what businesses are present. On the 1958 photo, the southern portion of I-490 is present. I-490, in its current configuration, is depicted on the 1966, 1971, 1980, 1994, 2006, 2008, 2009 and 2011 photos.

RCRA No Longer Regulated

One RCRA NLR record was identified for this site:

NYSDOT BIN 1050149 – Broad Street over Inner Loop – No Violations

This site was identified as a site that no longer generates, transports, treats, stores or disposes of hazardous waste.

NYSDEC Spill Report Database

Twelve spill records were identified for the addresses that comprise this site. The majority of the spills were for motor vehicle accidents on Route 490. All of the Spills have been cleaned up and closed by the NYSDEC.

Historic Auto Database

Fifteen (15) Historic Auto records were identified for the addresses that previously existed on this site:

- Harry C. Bernstein Gas 90 Griffith St.
- Union Tire & Supply Co. Gas 9 Union St. N.
- Jason B. Thornton Garage 21 Union St. N.
- Seneca Stations Inc. Gas 628 E. Main St.
- Fast Auto Glass 635 E. Main St.
- Fred F. Anderson Garage 109 Monroe Ave.
- Ben C. Kiner Gas Station 123 Monroe Ave.
- Blanchard Service Station 291 University Ave.
- Standard Oil Co. of New York 297 University Ave.
- Richmond Garage 51 Haags Al.
- Richmond Garage 51 Richmond St.
- Archer Switzer Auto Laundry 55 Haags Al.
- Rear Archie Switzer Auto Laundry 55 Richmond St.
- Union Carburetor 6 Pitkin St.
- Ed Duval Auto Repair 309 Clinton Ave. S.
- Liberty Service Station 350 Clinton Ave. S.

These sites were identified as potential gas stations, filling stations, car washes, and/or service stations however; the structures were removed during the construction of the Inner Loop.

Historic Dry Cleaner Database

Three (3) Historic Dry Cleaner records were identified for the addresses that previously existed on this site:

- Samuel's Dry Cleaning 25 S. Union St.
- Levy Tein Dry Cleaners Inc. 104 Monroe Ave.
- Tom Lung Laundry 108 Monroe Ave.

These sites were identified as potential dry cleaners, cleaners, laundries and/or laundromats however; the structures were removed during the construction of the lnner Loop.

Conclusion

This site is currently a six lane grade-separated highway (I-490), also known as the Inner Loop. The highway was constructed in the late 1950's and 1960's. Prior to the construction of the highway, the area was part of the City of Rochester business district. The past presence of businesses such as dry cleaners, gas station, auto sales and service facilities, auto repair shops and manufacturing facilities, indicates the potential for encountering soil and/or groundwater contamination during any excavations completed adjacent to this corridor.

3.1.2 Site B: Parking Garage – 280 Clinton St. S.

Site Inspection

This site is currently a parking garage. Refer to Photo #6 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 276-278 Clintons St. S. is depicted on the 1938 Sanborn Fire Insurance Map as an awning manufacturer. 77-87 Monroe Ave. is depicted on the 1938 map as an auto sales and service facility.

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

280 South Clinton St. – 280 Clintons St. S. Two (2) 500-gallon gas USTs (install date unknown, closed-removed 7/2008); one (1) 500-gallon gas UST (install date unknown, closed-removed 8/2008); and one (1) 2,000-gallon gas UST (install date unknown, closed-removed 8/2008) were listed on the state registry for this site.

City of Rochester Records

City of Rochester records indicate that a gas station was constructed at this site in July 1934. Two (2) 3,000-gallon, one (1) 2,000-gallon gas tanks, and six (6) pumps were installed in November 1950. The gas station was demolished in August 1970. One (1) 500-gallon UST was removed in July 2008.

Previous Reports

A Phase II Environmental Site Assessment was completed for 280 Clinton St. S. by LaBella Associates, P.C. in March 2008. According to the report, fill material (including ash, slag, and cinders) was found throughout the site. In addition, petroleum impacted soils were detected in the northwest portion of the site.

Conclusion

The past use of this property as an awning manufacturer, retail petroleum sales, and an auto sales and service facility as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater contamination during excavation near this site.

3.1.3 Site C: Graves Auto Service – 60 Marshall St.

Site Inspection

This site is currently an auto repair shop. Refer to Photo #7 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 300 Broadway St. is depicted on the 1971 Sanborn Fire Insurance Map as a telephone company garage and repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1950	300 Broadway St.	Auto Repair & Tire Shop
1960-1982	300 Broadway St.	Telephone Co. Garage
2000-2008	300 Broadway St.	Auto Repair Shop

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

• Thomas Yatteau – 300 Broadway St. Two (2) 2,000-gallon #2 fuel oil USTs (install date unknown, closed-removed 11/2009) and one (1) 2,000-gallon #2 fuel oil UST (installed 2/1975, temporarily out of service) were listed on the state registry for this site.

NYSDEC Spill Report Database

One (1) Spill record was identified for this site:

Graves Auto Service: 300 Broadway St. – Spill #0510982 (Opened 12/20/2005, Closed 1/6/2006) – NYSDEC received a complaint about the repair shop dumping antifreeze on the driveway and allowing it to wash down into the street. The complaint was found to be unfounded and no further action was needed by the NYSDEC. The spill was closed and met NYSDEC cleanup standards.

Leaking Storage Tanks Database

One (1) LTank record was identified for this site:

Graves Auto Service: 300 Broadway St. – Spill #0551537 (Opened 01/25/2006, Not Closed) – A tank failed its tightness test. The owner indicated that he intends to remove the tanks. This spill is still active.

Historic Auto Database

One (1) Historic Auto record was identified for this site:

Graves Auto Service – 60 Marshall St.

This site was identified as a potential gas station, filling station, and/or service station.

City of Rochester Records

City of Rochester records indicate that one (1) 2,000-gallon fuel oil tank was installed in December 1975. In addition, City records indicated that one (1) 4,000-gallon gas tank was removed from the site in January 1983.

Conclusion

The past and present use of this property as an auto repair shop as well as the presence of an underground storage tank with an active Spill record indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.4 Site D: Dogs at Play – 79 Howell St.

Site Inspection

This site is currently a dog daycare. Refer to Photo #8 in Attachment B.

Sanborn Maps

This site is depicted on the 1938 Sanborn Fire Insurance Map as an auto repair shop; on the 1950 map as an auto sales and service facility; and on the 1971 map as a garage with one tank.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1935-1950	79 Howell St.	Auto Repair & Tire Shop

Conclusion

The past use of this property as an auto repair and tire shop as well as the presence of an underground storage tank indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.5 Site E: Abundance Cooperative Market – 62 Marshall St.

Site Inspection

This site is currently a natural food store. Refer to Photo #9 in Attachment B.

Sanborn Maps

This site is depicted on the 1938 Sanborn Fire Insurance Map as an auto repair shop with one tank.

City of Rochester Records

City of Rochester records indicate that two (2) 2,000-gallon heating oil USTs were removed from this site in November 2009.

Conclusion

The past use of this property as an auto repair shop as well as the presence of an underground storage tank indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.6 Site F: Rochester Fire Equipment Co. – 83-85 Howell St.

Site Inspection

This site is currently a fire equipment store. Refer to Photo #10 in Attachment B.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1945-1985	83 Howell St.	Fire Equipment Shop
1940-1950	85 Howell St.	Coal and Coke Co.
1940-1950	85 Howell St.	Printer
1930	85 Howell St.	Auto Tire Shop

City of Rochester Records

City of Rochester records indicate 4,000-gallon gas tank was installed in March 1972 and a 550-gallon gas tank (and pump) was removed in May 1989.

Conclusion

The past use of this property as an auto tire shop, coal and coke company, and printer as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.7 Site G: FedEx Office – 158-162 Monroe Ave.

Site Inspection

This site is currently a copy/delivery shop. Refer to Photo #11 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 144 Monroe Ave. is depicted on the 1950 Sanborn Fire Insurance Map as an auto repair and tire shop. 176 Monroe Ave. is depicted on the 1938 map as a gas station with three tanks and on the 1950 map as a used car lot.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1930-1945	144 Monroe Ave.	Auto Tire Shop
1950-1965	176 Monroe Ave.	Used Car Lot
1926-1940	170 Monroe Ave.	Gas Station

Historic Auto Database

One (1) Historic Auto record was identified for this site:

Sun Oil Co. – 176 Monroe Ave.

This site was identified as a potential gas station, filling station, and/or service station.

Historic Dry Cleaner Database

One (1) Historic Dry Cleaner record was identified for this site:

• Clover Dry Cleaners & Dyers – 170 Monroe Ave.

This site was identified as a potential dry cleaner, cleaner, laundry and/or laundromat.

Conclusion

Despite redevelopment, the past use of the property as a dry cleaner, an auto repair shop, tire shop and used car lot as well as the presence of an underground storage tank indicates the potential for encountering soil and/or groundwater petroleum and/or solvent contamination during any excavations completed adjacent to this site.

3.1.8 Site H: Rocco Restaurante – 165-169 Monroe Ave.

Site Inspection

This site is currently a restaurant. Refer to Photo #12 in Attachment B.

Historic Dry Cleaner Database

One (1) Historic Dry Cleaner record was identified for this site:

DeLuxe Laundry – 169 Monroe Ave.

This site was identified as a potential dry cleaner, cleaner, laundry and/or laundromat.

Conclusion

The past use of the property as a dry cleaner indicates the potential to encounter soil and/or groundwater solvent contamination during any excavations completed adjacent to this site.

3.1.9 Site I: Frey the Wheel Man – 110 Savannah St.

Site Inspection

This site is currently an auto repair shop. Refer to Photo #13 in Attachment B.

Sanborn Maps

This site is depicted on the 1950 and 1971 Sanborn Fire Insurance Maps as auto sales and service facility.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1950-2010	110 Savannah St.	Auto Repair & Tire Shop

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

• Frey the Wheel Man – 110 Savannah St. Two (2) 1,500-gallon fuel oil USTs (install date unknown, closed in-place 9/2001) were listed on the state registry for this site.

NYSDEC Spill Report Database

Two (2) Spill records were identified for this site:

- Frey the Wheelman: 110 Savannah St. Spill #0070490 (Opened 9/29/2000, Closed 7/15/2004) While conducting a Phase II Environmental Assessment, contaminated soil was encountered. The Spill was cleaned up and closed but did not meet NYSDEC cleanup standards.
- Frey the Wheelman: 110 Savannah St. Spill # 8607332 (Opened 3/3/1987, Closed 03/26/1987) NYSDEC received a complaint that the company was illegally disposing waste oil. A small amount of oil was identified spilled east of building. A written warning was issued and the contaminated soil was removed from the site. The spill was closed and met NYSDEC cleanup standards.

Historic Auto Database

One (1) Historic Auto record was identified for this site:

• Frey the Wheel Man – 110 Savannah St.

This site was identified as a potential gas station, filling station, and/or service station.

City of Rochester Records

City of Rochester records indicate that an auto repair shop was constructed at this site in March 1946. In addition, two (2) 1,000-gallon tanks were filled in place in September 2001.

Conclusion

The past and present use of this property as an auto sales and service facility and auto repair shop as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.10 Site J: Strong Museum – 1 Manhattan Sq.

Site Inspection

This site is currently a children's museum. Refer to Photos #14 and 15 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 240 Chestnut St. is depicted on the 1938, 1950 and 1971 Sanborn Fire Insurance Maps as a gas station with three tanks. 103 Manhattan St. is depicted on the 1912 map as an auto painting facility. 88 Manhattan St. is depicted on the 1971 map as an auto repair shop. 101 Manhattan St. is depicted on the 1971 map as an auto repair shop. 104 Monroe Ave. is depicted on the 1971 map as a dry cleaner. 29 Savannah St. is depicted on the 1971 map as an auto repair shop.

RCRA No Longer Regulated

One (1) RCRA NLR record was identified for this site:

The Strong Museum – 1 Manhattan Sq. – No Violations

This site was identified as a site that no longer generates, transports, treats, stores or disposes of hazardous waste.

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

The Strong Museum — 1 Manhattan Sq. One (1) 2,000-gallon gas UST (installed 7/1981, closed-removed 7/1992) and one (1) 2,000-gallon gas UST (install date unknown, closed-removed 7/1992) were listed on the state registry for this site.

NYSDEC Spill Report Database

Two (2) Spill records were identified for this site:

- The Strong Museum: 1 Manhattan Sq. Spill #0470290 (Opened 9/17/2004, Closed 5/8/2006) Contaminated soil was encountered during excavation. The spill was cleaned up and closed but did not meet NYSDEC cleanup standards.
- The Strong Museum: 1 Manhattan Sq. Spill #1203050 (Opened 6/27/2012, Closed 6/27/2012) While mixing sodium chlorite solution in sink some went down sink and eventually the sewer. The spill was cleaned up and closed but did not meet NYSDEC cleanup standards.

Historic Auto Database

One (1) Historic Auto record was identified for this site:

• Rabe's Complete Auto – 98 Manhattan St.

This site was identified as a potential gas station, filling station, and/or service station.

Hazardous Waste Manifest

One (1) HW Manifest record was identified for this site:

The Strong Museum –1 Manhattan Sq.

This site has or has had manifests for hazardous materials that they utilized or stored onsite. This record, by itself, does not represent a recognized environmental concern relative to the subject property.

City of Rochester Records

City of Rochester records indicate that two (2) 2,000-gallon gas tanks and two pumps were installed in December 1981 and removed in June 1992.

Monroe County Department of Health Records

Monroe County Department of Health (MCDOH) records indicate that in September 2004 fuel oil contaminated soil and bedrock was removed from the site. A venting and vapor barrier system was installed as some bedrock contamination remained at the site.

Conclusion

Despite redevelopment, the past use of this property as an auto repair shop, gas station and dry cleaner as well as the presence of underground storage tanks that apparently failed indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.11 Site K: Ambassador Apartments – 86 S. Union St.

Site Inspection

This site is currently an apartment building. Refer to Photo #16 in Attachment B.

Historic Maps

This site is depicted as the Ambassador Apartments in the 1935 atlas.

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

 Ambassador Apartments – 86 S. Union St. One (1) 5,000-gallon fuel oil UST (install date unknown, closed-in place 10/1993) was listed on the state registry for this site.

City of Rochester Records

City of Rochester records indicate that a 30 family apartment building was constructed in August 1922. In addition, City records indicate that a 5,000-gallom fuel oil was installed in December 1967 and closed in place (by filling with concrete) in October 1993.

Conclusion

The presence of an underground storage tank at this site indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.12 Site L: Chaintreuil Jensen Stark & Roc Brewing Co. – 54-56 S. Union St.

Site Inspection

This site is currently an architectural firm. Refer to Photo#17 in Attachment B.

Sanborn Maps

This site is depicted on the 1938, 1950 and 1971 Sanborn Fire Insurance Maps as auto sales and service facility.

City Directories

Years Listed	Address	Use
1940-1960	54 S. Union St.	Auto Sales & Service

Conclusion

Despite redevelopment, the past use of this property as an auto sales and service facility indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.13 Site M: Vacant Lot – 48 S. Union St.

Site Inspection

This site is currently a vacant lot. Refer to Photo #18 in Attachment B.

Sanborn Maps

This site is depicted on the 1938 Sanborn Fire Insurance Map as a gas station with five tanks and on the 1950 map as a used car lot.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1940	48 S. Union St.	Gas Station
1945-1965	48 S. Union St.	Used Car Lot

City of Rochester Records

City of Rochester records indicate that a gas station was constructed in December 1934. In addition, City records indicated that five 550-gallon tanks were removed from this site in August 1980.

Conclusion

The past use of this property as a used car lot and gas station as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.14 Site N: Upstate Gallery Antiques – 16 Gardiner Pk.

Site Inspection

This site is currently an antique store. Refer to Photo #19 in Attachment B.

Sanborn Maps

This site is depicted on the 1938, 1950, and 1971 Sanborn Fire Insurance Maps as an auto repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1930-1950	16 Gardiner Pk.	Auto Repair Shop

Historic Auto Database

One (1) Historic Auto record was identified for this site:

McCraley's Garage – 16 Gardiner Pk.

This site was identified as a potential gas station, filling station, and/or service station.

Conclusion

The past use of this property as a garage and auto repair shop indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.15 Site O: Bethel Christian Fellowship – 321 East Ave.

Site Inspection

This site is currently a church. Refer to Photos #20 and 21 in Attachment B.

Historic Maps

The 1918 atlas depicts the Strong Motors Inc. and the Dudley garage on this site. The 1935 atlas depicts The Firestone Service Station and Fincher Motors (car sales) on this site.

Sanborn Maps

This site previously consisted of several smaller parcels. 2 S. Union St. is depicted on the 1938 and 1950 Sanborn Fire Insurance Maps as a gas station with seven tanks and an auto sales and service facility. 10 S. Union St. is depicted on the 1938 and 1950 maps as an auto tire shop and on the 1971 map as an auto sales and service facility. 12-24 S. Union St. is depicted on the 1938, 1950 and 1971 maps as an auto and tire sales and service facility. 14 S. Union St. is depicted on the 1912 map as an auto sales and service facility with a tank in the road in front of the building. 20 S. Union St. is depicted on the 1912 map as garage with a tank. 28-30 S. Union St. is depicted on the 1938 and 1950 maps as an auto sales and service facility and on the 1971 map as a photography studio.

City Directories

Years Listed	Address	Use
1950-1992	28 S. Union St.	Photography Studio
1926-1640	28 S. Union St.	Auto Sales & Service
1926-1930	8 S. Union St.	Auto Sales & Service
1926-1945	12-14 S. Union St.	Auto Repair and Tire Shop
1926-1950	14 S. Union St.	Auto Sales & Service
1930	16 S. Union St.	Gas Station
1960-1992	18 S. Union St.	Auto Sales & Service
1970	20 S. Union St.	Auto Sales & Service
1926-1935	20 S. Union St.	Auto Repair Shop
1926	26 S. Union St.	Auto Tire Shop
1960	28-30 S. Union St.	Photography Studio
1930-1935	28-30 S. Union St.	Auto Sales & Service
1935-1992	291 East Ave.	Auto Repair Shop
1926-1930	293-297 East Ave.	Auto Tire Shop
1930	305 East Ave.	Auto Sales & Service

RCRA No Longer Regulated

Three (3) RCRA NLR records were identified for this site:

- Star Oldsmobile Inc 18 S. Union St. No Violations
- City of Rochester Old Varden Studio 28-30 S. Union St. No Violations
- Firestone 293-297 East Ave. No Violations

These sites were identified as sites that no longer generates, transports, treats, stores or disposes of hazardous waste.

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

 Millbury Oldsmobile Property – 12-24 S. Union St. Two (2) 1,000-gallon gasoline USTs (installed 12/1970, closed prior to 4/1991) and one (1) 500gallon UST (install date unknown, closed prior to 4/1991) were listed on the state registry for this site.

NYSDEC Spill Report Database

Four (4) Spill records were identified for this site:

- Varden's Studio: 28 S. Union St. Spill #8908904 (Opened 12/7/1989, Closed 12/8/1989) – Human error caused a spill inside the photo studio. The spill was cleaned up, closed and met NYSDEC cleanup standards.
- Varden Photo Studio: 28 S. Union St. Spill #8401848 (Opened 10/11/1984, Closed 6/1/1986) – A shelf collapsed breaking 1 quart jar of

- flexicolor bleach starter. The spill was cleaned up, closed and met NYSDEC cleanup standards.
- Varden Studio Building: N. Union St. Spill #9710786 (Opened 12/22/1997, Closed 6/23/2003) An anonymous caller stated that a demolition company spilled hydraulic oil onto the ground. The spill was cleaned up and closed but did not meet NYSDEC cleanup standards.
- Ryan Murphy Inc.: 293-297 East Ave. Spill #9412387 (Opened 12/14/1994, Closed 4/4/1996) – While excavating rear hydraulic lift, contaminated soil was encountered. The spill was cleaned up and closed but did not meet NYSDEC cleanup standards.

Leaking Storage Tanks Database

One (1) LTank record was identified for this site:

 Millbury Oldsmobile Co.: Anson St. – Spill # 7680427 (Opened 4/30/1976, Closed 4/30/1976) – Possible leaking underground storage tank, gasoline loss to sanitary sewer. The sewer was flushed. The spill was cleaned up, closed and met NYSDEC cleanup standards.

Hazardous Waste Manifest

Two (2) HW Manifest records were identified for this site:

- City of Rochester Old Varden Studio 28-30 S. Union St.
- Firestone 293-297 East Ave.

These sites have or had manifests for hazardous materials that they utilized or stored onsite. These records, by themselves, do not represent a recognized environmental concern relative to the subject property.

<u>City of Rochester Records</u>

City of Rochester records indicate that one (1) 1,000-gallon and one (1) 550-gallon gas tanks were removed and replaced with two (2) 1,000-gallon gas tanks in June 1973. In June 1980, the building changed use from a parking garage to a photo lab. In November 1994, one (1) 550-gallon waste oil tank was removed. Buildings were demolished from the site in April 1997 and January 1999.

Conclusion

Despite redevelopment, the past use of this property as a photography studio, gas station, auto sales and service facility, auto repair shop, and auto tire shop as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.16 Site P: Corporate Place LLC – 255 East Ave.

Site Inspection

This site is currently an office building. Refer to Photos #22 and 23 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 245 East Avenue is depicted on the 1912 Sanborn Fire Insurance Map as an auto sales and service facility.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1926-1930	247 East Ave.	Auto Sales & Service
1930-1945	245 East Ave.	Auto Repair Shop
1960-1975	245 East Ave.	Typewriter Mfg.
1930	239 East Ave.	Auto Parts
1930	253 East Ave.	Radiator Co.
1935	255 East Ave.	Auto Tire Sales

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

• Sprint Telephone: 255 East Ave. One (1) 2,000-gallon diesel AST (install date unknown, active) was listed on the state registry for this site.

NYSDEC Spill Report Database

One (1) Spill record was identified for this site:

• Sprint Telephone: 255 East Ave. – Spill #0803168 (Opened 6/17/2008, Closed 6/17/2008) – Equipment failure caused three gallons of diesel to spill onto concrete. The spill was cleaned up, closed and met NYSDEC cleanup standards.

City of Rochester Records

City of Rochester records indicate that an Auto Salesroom was constructed in October 1923. In addition, City records indicate that a fuel tank was connected to a generator in May 1996.

Conclusion

Despite redevelopment, the past use of this property as an auto sales and service facility, auto repair shop, tire shop, and manufacturing facility as well as the presence of an underground storage tank indicates the potential for encountering soil and/or

groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.17 Site Q: Parking Lot – 292-316 East Ave. and 14-16 N. Union St.

Site Inspection

This site is currently a parking lot. Refer to Photo #24 in Attachment B.

Historic Maps

A portion of this site (302-306 East Ave.) is depicted as a garage in the 1918 and 1935 atlases. 14-16 N. Union St. is depicted as Gay's Speedometer Service Station in the 1935 atlas.

Sanborn Maps

This site previously consisted of several smaller parcels. 300 East Avenue is depicted on the 1938 Sanborn Fire Insurance Map as an auto repair shop. 302 East Avenue is depicted on the 1938, 1950 and 1971 maps as an auto sale and service facility. 16 N. Union Street is depicted on the 1938 map as an auto repair shop and sheet metal works, on the 1950 map as an auto repair shop, and on the 1971 map as an auto sales and service facility.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1935-1940	12 N. Union St.	Auto Repair Shop
1926-1960	16 N. Union St.	Auto Repair Shop
1926-1982	292 East Ave.	Auto Repair Shop
1940-1945	296 East Ave.	Dry Cleaner
1935	300 East Ave.	Gas Tank Mfg.
1970-1975	302 East Ave.	Used Car Lot
1926-1950	306 East Ave.	Auto Sales & Service
1940-1945	310 East Ave.	Dry Cleaner
1930-1935	310 East Ave.	Neon Sign Mfg.
1940-1955	310 East Ave.	Auto Repair Shop
1926	312 East Ave.	Auto Sales & Service

Historic Dry Cleaner Database

Two (2) Historic Dry Cleaner records were identified for this site:

- East Avenue Cleaners 296 East Ave.
- Three Hour Laundry 312 East Ave.

These sites were identified as potential dry cleaners, cleaners, laundries and/or laundromats.

Historic Auto Database

Three (3) Historic Auto records were identified for the addresses that previously existed on this site:

- Cooperative Auto Body 310 East Ave.
- Miller Babcock Spring Service 318 East Ave.
- Tuper Collision 16 N. Union St.

These sites were identified as potential gas stations, filling stations, and/or service stations.

City of Rochester Records

City of Rochester records indicate that one (1) 3,000-gallon gas tank was installed in February 1964 and one (1) 1,000-gallon gas tank was removed in May 1980.

Conclusion

Despite redevelopment, the past use of this property as an auto sales and service facility, used car lot, auto repair shop, dry cleaner, and neon sign manufacturer indicates the potential for encountering soil and/or groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.18 Site R: Arena's Florist & Grater Architects – 258-264 East Ave.

Site Inspection

This site is currently a storefront. Refer to Photo #25 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 260 East Avenue is depicted on the 1950 and 1971 Sanborn Fire Insurance Maps as an auto tire shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1926-1985	260 East Ave.	Auto Tire Sales
1926-1945	264 East Ave.	Auto Tire Sales

City of Rochester Records

City of Rochester records indicate that a tire shop located at 264 East Ave. had one (1) 550-gallon and one (1) 1,050-gallon gasoline USTs (installed 3/1939, removed 3/1949) and one (1) 1,000-gallon gasoline UST (installed 2/1950). In 8/1980 a

1,000-gallon gas tank was removed and replaced with another 1,000-gallon gas tank.

Conclusion

The past use of this property as an auto tire shop with underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.19 Site S: Little Theatre Film Society Cafe – 5-7 Pitkin St.

Site Inspection

This site is currently an independent movie theater. Refer to Photo #26 in Attachment B.

Historic Maps

A portion of this site (7 Pitkin St.) is depicted as a George Stedman Garage in the 1935 atlas.

Sanborn Maps

This site consisted of two smaller parcels. 5 Pitkin St. is depicted on the 1938 and 1950 Sanborn Fire Insurance Maps as an auto repair shop with two tanks and on the 1971 map as an auto tire shop. 7 Pitkin St. is depicted on the 1938, 1950 and 1971 maps an auto repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1926-1940	5 Pitkin St.	Auto Sales & Service
1930-1992	7 Pitkin St.	Auto Repair Shop

RCRA No Longer Regulated

One (1) RCRA NLR record was identified for this site:

Wolting's Collision Service – 7 Pitkin St. – No Violations

This site was identified as a site that no longer generates, transports, treats, stores or disposes of hazardous waste.

Historic Auto Database

One (1) Historic Auto record was identified for this site:

Wolting's Collision Service – 7 Pitkin St.

This site was identified as a potential gas station, filling station, and/or service station.

Hazardous Waste Manifest

One (1) HW Manifest record was identified for this site:

• Wolting's Collision Service – 7 Pitkin St.

This site has or has had manifests for hazardous materials that they utilized or stored onsite. This record, by itself, does not represent a recognized environmental concern relative to the subject property.

City of Rochester Records

City of Rochester records indicate that one (1) gas UST was installed in April 1949 (size not indicated) and one (1) 1,000-gallon tank was removed in February 1984 from 5 Pitkin Street. In addition, City records indicate that one (1) 1,000-gallon double-walled tank was installed in November 1987 at this site.

City records also indicated that in June 1994, 7 Pitkin Street changed use from an auto repair shop to a movie theater.

Conclusion

The past use of this property as an auto repair shop as well as the presence of an underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.20 Site T: Smart Import Parts – 15-17 Pitkin St.

Site Inspection

This site is currently an auto parts store. Refer to Photos #27 and 28 in Attachment B.

Historic Maps

This site is depicted as the Auto Exchange of Rochester in the 1918 atlas and as General Motors Truck Co. Garage in the 1935 atlas.

Sanborn Maps

This site previously consisted of several smaller parcels. 15 Pitkin St. is depicted on the 1938 Sanborn Fire Insurance Map as an auto sales and service facility with one tank and on the 1971 map as an auto repair shop.

City Directories

Years Listed	Address	Use
1965-1985	11 Pitkin St.	Truck Repair Shop
1926-1935	15 Pitkin St.	Truck Repair Shop
1965-1975	17 Pitkin St.	Truck Repair Shop

City of Rochester Records

City of Rochester records indicate that a 1,000-gallon gas UST was removed from this site in March 1994.

Conclusion

The past use of this property as an auto repair shop as well as the presence of an underground storage tank indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.21 Site U: Wendy's of Rochester - 18-20 N. Union St.

Site Inspection

This site is currently an office building. Refer to Photo #29 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 18 N. Union Street is depicted on the 1938 and 1950 Sanborn Fire Insurance Maps as an auto repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1926-1930	20 N. Union St.	Auto Repair Shop
1965	20 N. Union St.	Ink Mfg.
1926-1985	18 N. Union St.	Auto Repair Shop

Historic Auto Database

Three (3) Historic Auto records were identified for this site:

- 18 20 Starter & Ignition Service Co. Inc. 20 N. Union St.
- Sanders Inc. Auto Repair 18 N. Union St.
- Brewster Automotive 18 N. Union St.

These sites were identified as potential gas stations, filling stations, and/or service stations.

City of Rochester Records

City of Rochester records indicate that a service station was erected at this site in December 1920.

Conclusion

The past use of this property as an auto repair shop and ink manufacturer indicates the potential for encountering soil and/or groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.22 Site V: NYSUT and Rochester Eye Center – 30-32 N. Union St.

Site Inspection

This site is currently an office and medical facility. Refer to Photos #30 and 31 in Attachment B.

Historic Maps

This site is depicted as Gayford & Sons Garage in the 1918 atlas and as the Union Street Garage in the 1935 atlas.

Sanborn Maps

This site previously consisted of several smaller parcels. 26 N. Union Street is depicted on the 1950 Sanborn Fire Insurance Map as an auto repair shop. 30 N. Union Street is depicted on the 1938 map as an auto repair shop with two tanks and on the 1950 and 1971 maps as an auto sales and service facility.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1970-1985	26 N. Union St.	Used Car Lot
1926-1940	30 N. Union St.	Auto Repair Shop
1950-1985	30 N. Union St.	Auto Sales & Service
1926-1940	32 N. Union St.	Auto Sales & Service

RCRA No Longer Regulated

Two (2) RCRA NLR records were identified for this site:

- Union Place Associates 30 N. Union St. No Violations
- Lou Holtz Buick Isuzu Inc. 30 N. Union St. No Violations

These sites were identified as sites that no longer generates, transports, treats, stores or disposes of hazardous waste.

Historic Auto Database

One (1) Historic Auto record was identified for this site:

• Whiting Buick Inc. – 30 N. Union St.

This site was identified as a potential gas station, filling station, and/or service station.

Hazardous Waste Manifest

One (1) HW Manifest record was identified for this site:

• Union Place Associates – 30 N. Union St.

This site has or has had manifests for hazardous materials that they utilized or stored onsite. This record, by itself, does not represent a recognized environmental concern relative to the subject property.

City of Rochester Records

City of Rochester records indicate that one (1) 10,000-gallon and two (2) 1,000-gallon gas tanks and one (1) 1,000-gallon waste-oil tank were removed and one (1) 275-gallon and one (1) 4,000-gallon gas tanks were filled in-place in April 1988.

Conclusion

Despite redevelopment, the past use of this property as an auto repair shop and auto sales and service facility as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.23 Site W: Nix Rubber Stamps Building – 81 Charlotte St.

Site Inspection

This site is currently a massage therapist office. Refer to Photo #32 in Attachment B.

Sanborn Maps

This site is depicted on the 1971 Sanborn Fire Insurance Map as a pipe cleaner manufacturer.

City Directories

Years Listed	Address	Use
1982-1985	81 Charlotte	Nix Rubber Stamp Plant
1960-1975	81 Charlotte	Rochester Livingston Inc. Pipe

Conclusion

The past use of this property as a rubber stamp plant and pipe cleaner manufacturer indicates the potential for encountering soil and/or groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.24 Site X: Parking Lot – 80 Charlotte St.

Site Inspection

This site is currently a parking lot. Refer to Photo #33 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 80-100 Charlotte St. is depicted on the 1971 Sanborn Fire Insurance Map as an electric motor repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1940-2000	102 Charlotte St.	Electric Machine Mfg.
1970	80-100 Charlotte St.	Electric Machine Mfg.

Historic Dry Cleaner Database

One (1) Historic Dry Cleaner record was identified for this site:

Rear Lawrence Household – 84 Charlotte St.

This site was identified as a potential dry cleaner, cleaner, laundry and/or Laundromat.

Brownfield

One (1) Brownfield record was identified for this site:

80-100 Charlotte Street – The property is owned by the City of Rochester and consists of a single unimproved parcel zoned as vacant commercial land with a lot size of approximately 246.7 ft. x 14.3 ft. (approximately 0.784 acres). Former structures included an approximate 18,988 sf one and two-story steel/masonry building constructed around 1962. Previous to this structure, the property contained several residential structures and garages. Former uses of the property include electric motor repair, warehouse, electrical contractor and residential.

RCRA No Longer Regulated

One (1) RCRA NLR record was identified for this site:

Vanderlinde Electric Corp. – 100 Charlotte St.– No Violations

This site was identified as a site that no longer generates, transports, treats, stores or disposes of hazardous waste.

NYSDEC Petroleum Bulk Storage Database

One (1) PBS record was listed for this site:

 Vanderlinde Electric Corp. – 100 Charlotte St. One (1) 2,000-gallon gas UST (installed 6/1982, closed-removed 10/1988) was listed on the state registry for this site.

NYSDEC Spill Report Database

One (1) Spill record was identified for this site:

Vanderlinde Electric: 80-100 Charlotte St. – Spill #0270474 (Opened 11/25/2002, Closed 6/6/2007) – Contamination was discovered during a Phase II environmental study. Contaminated soil and groundwater were removed. The spill was cleaned up, closed and met NYSDEC cleanup standards.

Hazardous Waste Manifest

One (1) HW Manifest record was identified for this site:

Vanderlinde Electric Corp. – 100 Charlotte St.

This site has or has had manifests for hazardous materials that they utilized or stored onsite. This record, by itself, does not represent a recognized environmental concern relative to the subject property.

City of Rochester Records

City of Rochester records indicate that one (1) 2,500-gallon gas tank and pump were installed at this site in June 1962. One (1) 4,000-gallon UST was removed in October 1988. A two-story commercial building was demolished in September 2003.

Monroe County Department of Health Records

Monroe County Department of Health (MCDOH) records indicate that a Citizen Participation Plan USEPA Grant Funded Clean-up for 80-100 Charlotte was prepared in January 2005. According to the report, the site is currently owned by the City of Rochester. The site was an electric motor repair/service facility from 1962-2001. One 2,000-gallon UST was removed in 1988. A Phase II ESA indicated that petroleum contaminated soil and/or groundwater contamination was found in the NW and SW portions on the site. The contaminated soil was removed from the site. In addition, fill material was found throughout the site. Groundwater monitoring was

performed post-remediation via 10 monitoring wells. The quarterly monitoring report dated November 8, 2007 only had one well with detectable concentrations of target VOCs and they were below groundwater standards. The wells were subsequently decommissioned by the City of Rochester.

Conclusion

Despite redevelopment, the past use of this property as an electric machine manufacturer and dry cleaner as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.25 Site Y: Vacant Lot – 47 Haggs Al.

Site Inspection

This site is currently a vacant lot. Refer to Photos#34 in Attachment B.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1930	47 Haggs Al.	Auto Repair Shop

Conclusion

The past use of this property as an auto repair shop indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.26 Site Z: Parking Lot – 56 N. Union St.

Site Inspection

This site is currently a parking lot. Refer to Photos #33 and 34 in Attachment B.

Sanborn Maps

This site is depicted on the 1950 Sanborn Fire Insurance Map as an auto repair shop and on the 1971 map as a machine shop.

City Directories

Years Listed	Address	Use
1965-1995	56-58 N. Union St.	Auto Repair Shop
1945-1960	56-58 N. Union St.	Auto Sales & Service
1930-1935	56-58 N. Union St.	Auto Tire Shop

NYSDEC Spill Report Database

Two (2) Spill records were identified for this site:

- AAMCO: 56 North Union St. Spill #8710599 (Opened 3/18/1988, Closed 7/16/1988) NYSDEC received a complaint about drums leaking on this site.
 No leaking drums were identified and the spill was closed and met NYSDEC cleanup standards.
- AAMCO: 56 North Union St. Spill #8708363 (Opened 12/28/1987, Closed 1/6/89) NYSDEC received a complaint about approximately 30 barrels of oil unsecured with spillage. The case was referred to solid waste for followup of illegal storage and disposal of waste oil. The spill was closed and met NYSDEC cleanup standards.

Historic Auto Database

One (1) Historic Auto record was identified for this site:

AAMCO – 56-58 N. Union St.

This site was identified as a potential gas station, filling station, and/or service station.

Conclusion

Despite redevelopment, the past use of this property as an auto repair shop, tire shop and auto sales and service facility indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.27 Site AA: Tyron Contracting Services Inc. – 68-70 N. Union St.

Site Inspection

This site is currently a construction company. Refer to Photos #35 and 36 in Attachment B.

Historic Maps

This site is depicted as the Goodland Tire Co. in the 1935 atlas.

Sanborn Maps

This site previously consisted of several smaller parcels. 68 N. Union Street is depicted on the 1938 Sanborn Fire Insurance Map as a gas station with four tanks, and on the 1950 and 1971 maps as an auto sales and service facility.

City Directories

Years Listed	Address	Use
1930-1992	68 N. Union St.	Gas Station
1950	70 N. Union St.	Used Car Lot

RCRA No Longer Regulated

One RCRA NLR record was identified for this site:

Tyron Contracting Service Inc. – 70 N. Union St.– No Violations

This site was identified as a site that no longer generates, transports, treats, stores or disposes of hazardous waste.

Historic Auto Database

One (1) Historic Auto record was identified for this site:

• Richmond Service Station – 68 N. Union St.

This site was identified as a potential gas station, filling station, and/or service station.

City of Rochester Records

City of Rochester records indicate that a gas station was constructed in April 1929.

Conclusion

The past use of this property as a gas station and used car lot as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.28 Site BB: Sam Lovetro Automotive – 44 Richmond St.

Site Inspection

This site is currently an auto repair shop. Refer to Photo #37 in Attachment B.

Sanborn Maps

This site is depicted on the 1938, 1950 and 1971 Sanborn Fire Insurance Maps as an auto repair shop.

City Directories

Years Listed	Address	Use
1930-2006	44 Richmond St.	Auto Repair Shop

Historic Auto Database

One (1) Historic Auto record was identified for this site:

• Lovetro Automotive Auto Repair – 44 Richmond St.

This site was identified as a potential gas station, filling station, and/or service station.

Conclusion

The past and present use of this property as an auto repair shop indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.29 Site CC: Vacant Building and Parking Lot – 36 Richmond St.

Site Inspection

This site is currently a vacant building. Refer to Photos #38 in Attachment B.

Sanborn Maps

This site previously consisted of two smaller parcels (36 and 38 Richmond Street). 36 Richmond St. is depicted on the 1938, 1950 and 1971 Sanborn Fire Insurance Maps as an auto repair shop. 38 Richmond St. is depicted in the 1938 and 1950 maps as a dry cleaner.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1926-1975	36 Richmond St.	Printing Co.
1926-1970	36 Richmond St.	Auto Repair Shop
1940-1975	36 Richmond St.	Heater Mfg.
1926-1945	36 Richmond St.	Dry Cleaner

Historic Auto Database

One (1) Historic Auto record was identified for this site:

Al's Auto Sales & Service – 36 Richmond St.

This site was identified as a potential gas station, filling station, and/or service station.

Historic Dry Cleaner Database

One (1) Historic Dry Cleaner record was identified for this site:

• Rear Ward Cleaner & Dyer – 38 Richmond St.

This site was identified as a potential dry cleaner, cleaner, laundry and/or laundromat.

Conclusion

The past use of the property as a printer, auto repair shop, heater manufacturer and as a dry cleaner indicates the potential to encounter soil contamination during any excavations completed adjacent to this site.

3.1.30 Site DD: Vacant Building and Parking Lot – 34 Richmond St.

Site Inspection

This site is currently a vacant building and parking lot. Refer to Photo #39 in Attachment B.

Sanborn Maps

This site previously consisted of two smaller parcels (32 and 34 Richmond Street). This site is depicted on the 1938 and 1950 Sanborn Fire Insurance Maps as an auto repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1926-1935	34 Richmond St.	Auto Repair Shop

<u>City of Rochester Records</u>

City of Rochester records indicate that an auto trimmers shop was constructed at this site in February 1928.

Conclusion

The past use of this property as an auto repair shop indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.31 Site EE: Action Telephone – 28 Richmond St.

Site Inspection

This site is currently an alarm company. Refer to Photo #40 in Attachment B.

Sanborn Maps

This site is depicted on the 1938 Sanborn Fire Insurance Map as a sheet metal works.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1975-1975	28 Richmond St.	Tool Co.
1960	28 Richmond St.	Auto Repair Shop

Conclusion

The past use of this property as an auto repair shop and tool shop indicates the potential for encountering soil and/or groundwater petroleum contamination and chemical contamination during any excavations completed adjacent to this site.

3.1.32 Site FF: Dimitri House Inc. – 100-104 N. Union St.

Site Inspection

This site is currently a non-profit organization. Refer to Photo #41 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 104 N. Union Street is depicted on the 1938, 1950 and 1971 Sanborn Fire Insurance Maps as an auto repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1930-1985	102 N. Union St.	Auto Repair Shop

Historic Auto Database

Three (3) Historic Auto records were identified for the addresses that previously existed on this site:

- Union Service Garage 104 N. Union St.
- Etter Carburetor & Ignition 104 N. Union St.
- Etter Carburetor Tune-up 102 N. Union St.

These sites were identified as potential gas stations, filling stations, and/or service stations.

Conclusion

The past use of this property as an auto repair shop indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site. However, it appears this parcel will be too far from the area of work to be considered as an environmental concern.

3.1.33 Site GG: Men's Fashion House and Tailoring – 581-583 E. Main St.

Site Inspection

This site is currently a men's clothing shop, tailor and dry cleaner. Refer to Photo #42 in Attachment B.

Sanborn Maps

This site previously consisted of several smaller parcels. 581 E. Main St. is depicted on the 1912 Sanborn Fire Insurance Map as a dry cleaner. 581-583 E. Main St. is depicted on the 1938 and 1950 maps as a gas station with two tanks. 589 E. Main St. is depicted on the 1950 map as an auto sales and service facility and on the 1971 map as an auto repair shop.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1926-1930	581 E. Main St.	Dry Cleaner
1935-1945	581 E. Main St.	Gas Station
1930-1975	589 E. Main St.	Auto Sales & Service
1926-1930	585 E. Main St.	Gas Station
1940-1950	571 E. Main St.	Auto Sales & Service
1960-1975	571 E. Main St.	Rubber Stamp Mfg.

NYSDEC Spill Report Database

One (1) Spill record was identified for this site:

Budget Rent A Car: 581-583 E. Main St. – Spill #8902893 (Opened 6/20/1989, Closed 12/4/1989) – Soil studies revealed odors, contaminated soils and three 1,000-gallon tanks were removed. The spill was closed and met NYSDEC cleanup standards.

Historic Auto Database

Four (4) Historic Auto records were identified for this site:

- Shell Eastern Petroleum 581 E. Main St.
- Keystone Auto Mart Inc. 589 E. Main St.
- John Wilkinson Gas Station 585 E. Main St.
- Dean Motors 571 E. Main St.

These sites were identified as potential gas stations, filling stations, and/or service stations.

Historic Dry Cleaner Database

One (1) Historic Dry Cleaner record was identified for this site:

Ace Cleaners, Dyers & Tailors – 581 E. Main St.

This site was identified as a potential dry cleaner, cleaner, laundry and/or laundromat.

City of Rochester Records

City of Rochester records indicate a dry cleaner was constructed in November 1907. In January 1933, a gas station was constructed at this site. Three (3) 1,000-gallon tanks were removed in November 1989.

Conclusion

Despite redevelopment, the past use of this property as a gas station, dry cleaner, rubber stamp manufacturer and auto sales and service facility as well as the presence of underground storage tanks indicates the potential for encountering soil and/or groundwater petroleum and chemical contamination during any excavations completed adjacent to this site.

3.1.34 Site HH: Enterprise Rent-A-Car – 568-580 E. Main St.

Site Inspection

This site is currently a car rental company. Refer to Photo #43 in Attachment B.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1950	560 E. Main St.	Auto Sales & Service
1926-1930	562 E. Main St.	Dry Cleaner
1940-1950	570 E. Main St.	Auto Sales & Service
1935-1960	580 E. Main St.	Gas Station

Historic Auto Database

One (1) Historic Auto record was identified for this site:

Roy A Lux Gas Station – 580 E. Main St.

This site was identified as a potential gas station, filling station, and/or service station.

City of Rochester Records

City of Rochester records indicate that a gas station was constructed at the site in September 1932. The site was changed from a gas station to a dry cleaner in February 1964. The gas station was demolished in October 1969. In August 1997,

the site again changed use from an auto oil change service center to an auto rental shop.

Conclusion

Despite redevelopment, the past use of this property as a gas station, dry cleaner, and auto sales and service facility indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.1.35 Site II: World of Inquiry School #58 – 200 University Ave.

Site Inspection

This site is currently a City of Rochester Public School. The school is currently under re-construction. Refer to Photos #44 and 45 in Attachment B.

Historic Maps

This site is depicted as a playground, a wading pool and Public School #14 in the 1918 and 1935 atlases.

City Directories

The following businesses were identified on this site in the city directories:

Years Listed	Address	Use
1940-2012	200 University Ave.	School

Aerial Photos

A large building, presumably School #58, is depicted on the 1938, 1958, 1966, 1971, 1980, 1994, 2006, 2008, 2009, and 2011.

NYSDEC Spill Report Database

Three (3) Spill records were identified for this site:

- Real Estate Board of Roch: Main & University Spill #8382328 (Opened 3/28/1983, Closed 3/17/2005) Minor spillage of #2 fuel oil in basement of Real Estate Board of Rochester. The spill was cleaned up and closed but did not meet NYSDEC cleanup standards.
- National Ambulance/School: 200 University Avenue— Spill #9009284 (Opened 7/4/1990, Closed 5/21/2003) Principal of School #58 indicated that fumes were present in the school building and suspects source may be National Ambulance property, across the street. Tanks were removed from the National Ambulance Property and a vapor extraction system was installed. The spill was closed but did not meet NYSDEC cleanup standards. This spill is also listed in the LTANKS database which identified spills related to leaking underground storage tanks.

Monroe County Department of Health Records

Monroe County Department of Health (MCDOH) records indicate that this site has a history with gasoline-like fumes. In November 1990, the MCDOH received a request from the principal of School #58 asking for help with gasoline odors within the building. MCDOH recommended ventilation and sealing of floor drains. In addition, two tanks were tested at the National Ambulance site located across the street. A vapor extraction system was installed in the school in 1991 and was shut down in February 1994 when VOC levels were below clearance levels.

Conclusion

The presence of underground storage tanks with spills indicates the potential for encountering soil and/or groundwater petroleum contamination during any excavations completed adjacent to this site.

3.2 Properties Considered to be Potential Environmental Concerns Identified Outside the Project Limits

The following properties were identified in the historic research however, they are located outside of the project study limits. Should the limits of the reconstruction change to require construction along these addresses, the properties might be considered properties of potential environmental concern based on the historical activities and records and further research should be conducted.

- Rochester Gas & Electric Park & Alexander St
- Alexander & South Clinton
- Clinton Collision & Repair 17 Alexander St
- Isaac Jones- 92-92.5 Alexander St
- Monroe & Alexander Service 187 Alexander St
- George Crane Auto 189 Alexander St
- Genesee Hospital 224 Alexander St
- Private Dwelling 231 Alexander St
- City of Rochester 233 Alexander St
- Normandie-Brownstone 237-53 Alexander St
- Kirkhaven 254 Alexander St
- Rear Turk Sid Garage 255 Alexander St
- Siger Real Estate 267 Alexander St
- Flower City Management 268 Alexander St
- Eastern Cleaning Service 274 Alexander St
- Medical Arts Bldg 277 Alexander St
- Medical Arts Garage 278 Alexander St
- Apartment Building 357 Alexander St
- Ideal Cleaning Service 315 Alexander St
- Monroe Oil Company 366-A Alexander St
- Apartment Building 410 Alexander St
- MVA 428 Alexander St
- Classic Carpet Cleaners 488 Alexander St
- Davis Howland Oil Corp. -200 Anderson Ave
- Andrews St Site 300-320 Andrews St

- Aero Auto Care 430 Andrews St
- Elite Service Dry Cleaners 338 Broad St E
- Wrights Dry Cleaners 332 Broad St E
- Former Gas Station 491 Broad St E
- Rochester Gas & Electric 400 Broadway Ave
- School Without Walls 480 Broadway Ave
- Pit Stop Inc 481 Broadway Ave
- Bausch & Lomb Inc 10 Champeney Terr
- Liquitane Corp 18 Champeney Terr
- Sterling Garage 6-8 Charlotte St
- Vacant Lot 14-16 Charlotte St
- Sterling Garage 22 Charlotte St
- City of Rochester 26-60 Charlotte St
- Former Auto Garage 37 Charlotte Street
- Isaac Heating & AC 180 Charlotte St
- Monroe Brake & Motor 182-84 Charlotte St
- Ford Hotel Service Station 100 Chestnut St
- Temple Esso Gas Station 110 Chestnut St
- Commodore Hand Laundry 121 Chestnut St
- De Stefano Tailor 125 Chestnut St
- Canopy Restaurant 130 Chestnut St
- John E Foster & Co. Gas -132 Chestnut St
- Chestnut 2-Hr Laundry 162 Chestnut St
- Paramount Dry Cleaners 176 Chestnut St
- Wilferth Bros. Gas 182 Chestnut St

- The Pike Company 1 Circle St
- Asia Trading Co Clinton St & Gregory St
- Construction Site Clinton Ave S & Broad St
- Thos E. Townsend Auto 180 Clinton Ave S
- DiBella Automotive Service 184 Clinton Ave S
- Wilson Hobart H Gasoline 192 Clinton Ave S
- Stores Inc. 200 Clinton Ave S
- A B V I 422 Clinton Ave S
- John Ames Motor Corp 455 Clinton Ave S
- Clinkscales Garage 467 Clinton Ave S
- Eastman Dental Trailer 485 Clinton Ave S
- Barris Cleaners 495 Clinton Ave S
- Dray 504-520 Clinton Ave S
- Arco Products 510 Clinton Ave S
- Congdon Auto Parts 532-540 Clinton Ave S
- Kryger Bros Gas Station 554 Clinton Ave S
- Precision Dental 556 Clinton Ave S
- Roberts Garage 567 Clinton Ave S
- Summer Hays & Son 620 Clinton Ave S
- Betlem Service Corp. 704 Clinton Ave S
- Dinaburg Distributing 1012 Clinton Ave S
- Werner Spitz Construction Co. 11 Comfort St
- Speedy Cleaners Court St & South Ave
- Blue Cross/Blue Shield Court St & South Ave
- Court Street Parking Garage 160 Court St
- Chimes Gas Station 181 Court St
- Rochester Laundry 190 Court St
- Chimes Service Station 195 Court St
- Speedy Cleaners Inc. 196 Court St
- Rochester Laundry Co. 200 Court St
- Speedy B A Hat Cleaners 212 Court St
- Speedy B Anton Bootblack 216 Court St
- Mangurian Avedius Nouvart 246 Court St
- Three Hour Laundry Stores 282 Court St
- Tydol Gas Station 285 Court St
- De Luxe Laundry 286 Court St
- Dry Cleaners 291 Court St
- De Luxe Hand Laundry 296 Court St
- Star Palace Laundry 326 Court St
- Eddy's Garage 351 Court St
- Leon Drake Garage 353 Court St
- Hdwd J Trowell Gas Station 355 Court St
- Standard Major Auto Garage 354 Court St
- Jacob Nevelezer Laundry 358 Court St
- Harry Sommerfield 369 Court St
- Clearys Stations Inc. Gas 390 Court St
- Independent Cleaners 419 Court St
- Salvatore C Muscarella 450 Court St
- Shell Eastern Petro Products 479 Court St
- 143 Davis St
- James L McCabe Garage 16 Delevan St
- Monroe Lithographic Co. 39 Delevan St

- Russell Gas & Electric 89 East Ave
- Arsen Solickian Inc. 106 East Ave
- Leary's Cleaners & Dyers 117 East Ave
- East Avenue at Swan Street 120 East Ave
- Leary's Cleaners & Dyers 146 East Ave
- Sam's East Scio Service Station 170 East Ave
- Monroe Union Oil Co Gasoline 171 East Ave
- De Luxe Laundry 183 East Ave
- United Cleaners & Laundrers- 187 East Ave
- WHEC Channel 10 191 East Ave
- Schaefer's Dry Cleaners 197 East Ave
- Former Hallman Chevrolet 200 East Ave
- Bidwell Howard Gas Station 216 East Ave
- Robinson Rochester Cycles 219 East Ave
- Schumaker Tire & Auto Service 230 East Ave
- Leary's Cleaners & Dyers 242 East Ave
- Jomor Enterprises 246 East Ave
- Monroe Reprographics Inc. 334 East Ave
- City of Rochester 339 East Ave
- Union Oil Works Gas Station 345 East Ave
- Valley Cadillac Corp. 333 East Ave
- Snyder Auto Seat Covers 336 East Ave
- Sattari & Paddock Properties 342 East Ave
- C. L. Whiting Inc. 352 East Ave
- WVHF-TV 360 East Ave
- Genesee Valley Club 421 East Ave
- Blue Bird Coach Line Erion Cresent
- Monroe County Sheriff 180-182 Exchange St
- Eastman School of Music 26 Gibbs St
- David M Matz Gasoline Station 92 Gibbs St
- William J Gucker Gasoline 96 Gibbs St
- Univ. of Roch. Former YMCA 100 Gibbs St
- Rochester Drug Coop 320 N. Goodman St
- Stern Roofing 305 N. Goodman St
- Davidson Collision 399 Gregory St
- F K Hillen Inc. 160 Griffith St
- Markham John D Auto Repair 166 Griffith St
- Sero A Ernest Auto Uphol 174 Griffith St
- Griffith/South Union St
- In Street Griffith St & Broadway
- Grove Street Parking Station 10 Grove St
- Guss Auto Service 70 Grove St
- Craig Autometrics Inc. 74-80 Grove St
- City of Rochester 98 Grove St
- Gall & Paul Auto Repairers -18 Haags Alley
- Adam Bros. Auto Repairs 42 Haags Alley
- Former Laboratory 31 Howell
- N&W Associates The Tire 180 Hudson Ave
- Mitchell Beaucaire Inc 5 Lawrence St
- The Pig (Restaurant) 7 Lawrence St
- Quick Fix Service Co 30 Lawrence St
- Johnson & Lund 167 Liberty Pole Way

- Rear T Guck Richd J Garage 93 Lyndhurst St
- NYSDOT E Main St @ RR St Bridge
- Pal Oil E Main St
- E Main St & Stillson St
- Parking Lot 420 E Main St
- Toth's 3 Hour Laundry 424-26 E Main St
- Elite Hat Shop 431 E Main St
- Launderette Serv 432 E Main St
- U Wash N Dry 439 E Main St
- 444 E Main St
- Anthony Kristo Hat Cleaner 449 E Main St
- C L Sing Laundry 454 E Main St
- E Decker Clothing Cleaners 453 E Main St
- Three Hour Laundry Stores 458 E Main St
- Beebe's Bug Cleaners 470 E Main St
- Silver Star Dry Cleaners 493 E Main St
- Sanitary Dollar Dry Cleaning 497 E Main St
- Windsor Lofts 480-488 E Main St
- Pats Tailor Shop Dry 496 E Main St
- Flower City Auto Radiator 504 E Main St
- Elite Custom Tailoring 525-27 E Main St
- Hennessey & Thomas Auto 709 E Main St
- Nicholas Beloseroff 707 E Main St
- JJV Realty 727 E Main St
- Johnnies Dry Cleaners 737 E Main St
- The Dutch Cleaners & Dyers 739 E Main St
- East Main (#785) Street 785 E Main St
- Blue Bird Coach Lines Inc. 795 E Main St
- RSG Auto Group Inc. 795 E Main St
- Burroughs Corporation 800 E Main St
- Hause Tydol Service Gas 833 E Main St
- Midas Auto Service Experts 834 E Main St
- Brancato Sam Dry Cleaners 836 E Main St
- Jos Minardo Gas Station 839 E Main St
- Rahns Esso Service Inc. 840 E Main St
- Cropo (Carl)Service Station 895 E Main St
- Staub's Dry Cleaners 935-951 E Main St
- Artco Industrial Laundry 331-337 W Main St
- East Housing Corporation 10 Manhattan St
- 6 Marshall St
- City of Rochester 81 Marshall St
- Mill Street Drums 208 Mill St
- Vernon Cleaners & Dyers- 201 Monroe Ave
- Edward Kelly Cleaner 202 Monroe Ave
- 208 Monroe Ave
- Union Dry Cleaning Co. 209 Monroe Ave
- Launder Ease 215 Monroe Ave
- Jay L Howard Garage 232 Monroe Ave
- WCMF Radio 259 Monroe Ave
- John J Hahn Gas 259 Monroe Ave
- Sears Service Station 225 Monroe Ave
- Moon Wong Laundry 243 Monroe Ave

- Shell Eastern Petroleum 270 Monroe Ave
- Nulook Collision Inc 280 Monroe Ave
- Barnet Ben Cleaners 288 Monroe Ave
- Nu-Look Collision 289 Monroe Ave
- Monroe Avenue Aban Drum 297 Monroe Ave
- 300 Monroe/Dunkin Donut 300 Monroe Ave
- Scotty's Service Station 313 Monroe Ave
- City of Rochester 330 Monroe Ave
- Mayfair Cleaners & Dyers 334 Monroe Ave
- Monroe Bargain 334-336 Monroe Ave
- Williams Jas J Inc 350 Monroe Ave
- Archer Motor Co. Inc Gas 370 Monroe Ave
- Crop Cair Route 490 W Monroe Ave
- Esso Service Station 24 Mount Hope Ave
- Not Reported 32 Mt Hope Ave
- Frank B Hennen Inc 60 Mt Hope Ave
- Time Warner 71 Mt Hope Ave
- 80-92 Mt Hope Ave
- D & B Auto Repair & Service 90 Mt Hope Ave
- 151-191 Mount Hope Ave
- Genesee Gateway House 185 Mt Hope Ave
- River Park Commons 205-405 Mt Hope Ave
- Fraina's Service Station 462 North St
- Ontario-Finney St
- Waste Management Recycle 101 Ontario St
- Alley Behind 105 Ontario St
- 105 1/2 Ontario St
- Aiken Head Alley 117 Ontario St(Behind)
- Atkins Alley Near 125 Ontario St -Atkins Alley
- Williams (Paulette) Res 140 Ontario St
- East Rochester DPW 200 Ontario St
- Ferrari Park Service 210 Park Ave
- WHEC-TV Transmitter Site Pinnacle Hill
- Monroe County Jail 130 South Plymouth Ave
- Pearce Basinger & Associates 7 Prince St
- Empire State College 8 Prince St
- 22 Prince St
- School of the Arts 45 Prince St
- Oil City Dump Hinchey 46 Prince St
- American Red Cross 50 Prince St
- 94 Prince St
- Prince (#99) Street 99 Prince St
- Prince (601) Street 106 Prince St
- Krieger Waste Paper Co. 50 Portland Ave
- Aoam Bros. Auto Repair 25 Richmond St
- Former Hallman's Warehouse 6 4 Scio St
- Edwd Schiff Gas Station 25 Scio St
- Martin T Gullen & James J Part 38 Scio St
- C A Merkel Inc. Automobile 48 -50 Scio St
- Speedy's Cleaners 50 Scio St
- Automobile Greasing & Oil Co. 51 Scio St
- City of Rochester 62-64 Scio St

- Sanders The Radiator Co. 73 Scio St
- E G Snyder Company Inc. 86 Scio St
- Black Perry Auto Laundry 91 Scio St
- Sokolows Auto Radiator 104 Scio St
- Louis Gibaud Gas Station 123 Scio St
- 142 Scio St
- Clark Dry Cleaners 296 Scio St
- Ilas Dry Cleaners 301 Scio St
- Laube-Rogers Fuel Co. 34 Skue St
- A & E Transportation 140 Skye St
- Arcy Sales & Service Gas 68 South Ave
- Skyline Gas Station 94 South Ave
- Briter Cleaners Henry A Echter 132 South Ave
- Wilber Earl Gas Station 136 South Ave
- UCS Laundromat 144 South Ave
- Robt F Eshelman Garage 154 South Ave
- Southgate Gas Station 160-168 South Ave
- Weiss Dry Cleaning Co. -172 South Ave
- Tarrant Sales Inc Auto Repair 174 South Ave
- Rear Sport Car Service 176 South Ave
- Metro Tire & Service Center 188 South Ave
- Shell Eastern Petroleum 193 South Ave
- Merkel Donohue Inc 200 South Ave
- 228 South Ave
- Lou Frank Laundry 242 South Ave
- City of Rochester Warehouse 250 South Ave
- Clifton F Tarrant Auto 300 South Ave
- Hing Lung Laundry 316 South Ave
- 320 South Ave
- Mileage Master Center 370 South Ave
- Vacant Travelodge Motel 390 South Ave
- Rapps Inc. Clothing Cleaners 398 South Ave
- City of Rochester 420 South Ave
- Lung Hing Laundry 433 South Ave
- The Laundromat 451 South Ave
- Laurelton & Meo Dry 455 South Ave
- William H Longman Cleanser 475 South Ave
- The Radiator Shop 462 South Ave
- 488 South Ave
- St. Mary's Church 15 St. Mary's Pl
- Fort Howard Paper Co. St Paul St
- Cultural Districts Imports 70 Stillson St
- P F H Enterprises Auto Repair 71 Stillson St
- Craig Autometrics Auto Repair 80 Stillson St
- Roche Biomedical Labs 245 Summit Point Dr
- Harry Duckitt Gas Station 14 Swan St
- Burroughs Corporation 215 Tremont Ave
- Helpee Selfee Laundry 151 Union St N
- N Union Service Station 229 Union St N
- Wilson Valley Property 227 Union St N
- Not Reported 33 University Ave
- Ibero-American 58 University Ave

- Koetter & Sayre Inc Gas 62 University Ave
- Automotive Source 74 University Ave
- Monroe Litho Inc 109 University Ave
- University Esso Gas 113 University Ave
- 123-125 University Ave
- National Ambulance 177 University Ave
- Ferrel's Garage Gas 365 University Ave
- University of Rochester 500 University Ave
- PWB Properties 54 Weld St
- Howard E Cook Garage 16 Windsor St
- Rochester Gas & Electric 24 Windsor St
- Hallman Chevrolet Ltd 12 Winthrop St
- Sagamore Garage 10 Winthrop St
- Former Service Station 24 Winthrop St
- Washington Sq Garage 111 Woodbury Blvd
- Buddys Dry Cleaner 26 Woodward St
- Martinez (Jose) Residence 41 Woodward St

4.0 CONCLUSIONS AND RECOMMENDATIONS

Thirty-five sites (A through II) were identified in this Preliminary Screening Report prepared for the Hazardous Waste/Contaminated Materials (HW/CM) Assessment that may pose environmental risk to the Inner Loop proposed study area. These sites are recommended for further investigation if the chosen design alternative will require excavation or right-of-way acquisition in these areas. Each potentially contaminated site is listed with a recommendation for further work in Table 4-1.

Recommendations for further work may require alteration depending on the chosen design alternative. Once the design alternative has been chosen, a Field Sampling Plan (FSP) should be prepared for the performance of a subsequent Detailed Site Investigation (DSI). The FSP and DSI should include the areas near the sites of potential environmental concern that would be affected by right-of-way (ROW) acquisition or construction for the proposed project. If the results of the DSI indicate that construction will involve the excavation of areas of contamination, a Soil Management Plan will be necessary. For many of the identified sites, recommendations are based on multiple environmental concerns (e.g. petroleum spills and leaks, USTs, industrial use, undocumented fill) reflecting the changing land uses throughout the decades of occupation in this area. Detailed findings for each site that support these recommendations were described previously in Section 3.1.

The Inner Loop (Site A) has been an active highway for more than 50 years and the area has been an urban area since the late 1800's. Due to the urban nature of the project study area, urban/industrial fill is likely present throughout the corridor. This fill was placed at a time when environmental laws were not in place; therefore, there is a potential to encounter historic contaminated fill from unknown sources at these sites. If construction or ROW acquisition is anticipated in the area of these sites, we recommend that soil boring inspections (and laboratory analysis for general industrial compounds, if warranted) be conducted in the area of each involved site, to determine whether contaminated soil or groundwater is present within the existing or proposed ROW.

Twenty-three (23) of the thirty-five sites (Sites A, B, C, D, E, F, G, I, J, K, M, O, P, Q, R, S, T, V, X, Z, AA, GG, and II) contain or have contained petroleum USTs/ASTs or have petroleum spills on record. If construction is anticipated on these sites, we recommend that a soil gas/volatile vapor screening and soil boring inspections (and laboratory analysis for petroleum compounds, if warranted) be considered in the area of each involved site to determine whether petroleum contaminated soil is present.

There is also an elevated potential that these twenty-three sites may have abandoned and unmarked USTs within the site because of known or suspected former use as petroleum storage sites. If property acquisition or construction is anticipated in the area of these sites, we recommend that a geophysical survey be considered in the

area proposed to be acquired or involved with construction to determine whether USTs and/or ancillary piping are present.

Thirty-two (32) of the thirty-five sites (Sites A, B, C, D, E, F, G, I, J, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, and HH) are or have been auto repair shops or manufacturing facilities including metal shops, rubber stamp manufacturer, coal and coke companies, photo studios, and printers. (Please note: Some of these sites are in addition to or overlap with the land use on the twenty-three sites identified above as potentially petroleum contaminated.) If construction is anticipated in the area of these industrial sites, we recommend an environmental investigation (and laboratory analysis for general industrial compounds) be conducted at each site to determine whether soil or groundwater contaminated with industrial type compounds is present.

Eight (8) of the thirty-five sites (Sites A, H, J, Q, X, CC, GG, and HH) are or have been dry cleaners. If construction is anticipated on these sites, they should be investigated for the presence of chlorinated solvent contamination in the subsurface by analyzing select soils samples for Target Compound List (TCL) volatiles.

Please note, if soil sample collection is warranted at any of the sites through soil gas survey or soil boring inspection, a groundwater sample may also be collected if groundwater is encountered within the soil boring. Laboratory analysis should include the parameters identified above for the soil sample proposed at each individual site.

These recommendations are based on a generic assessment of the project corridor. Once design plans are developed, the conclusions and recommendations of this assessment may require alteration.

Table 4-1 Summary of Recommendations

Site	Property Name and Address	Environmental Co	Recommendation	
Sile		Known	Potential	Recommendation
А	I-490 Inner Loop	Former Manufacturing Facilities, Former Gas Station, Former Auto Repair Shop, Former Auto Sales & Service; Former Dry Cleaner; Spill Record	Petroleum and General Industrial Contamination; Abandoned USTs	Monitoring During Construction and Soil Sampling/Soil Characterization of Excavated Materials
В	Parking Garage — 280 Clinton St. S.	Former Auto Tire Shop; Former Manufacturing Facility; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
С	Graves Auto Service – 60 Marshall St.	Former Auto Repair Shop; USTs; Active Spill Record	Petroleum Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
D	Dogs at Play – 79 Howell St.	Former Auto Repair Shop; USTs	Petroleum Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Е	Abundance Cooperative Market – 62 Marshall St.	Former Auto Repair Shop; USTs	Petroleum Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
F	Rochester Fire Equipment Co. – 83-85 Howell St.	Former Auto Repair Shop; Former Printer; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
G	FedEx Office – 158-162 Monroe Ave.	Former Auto Repair & Tire Shop; Former Dry Cleaner; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Н	Rocco Restautante – 165-169 Monroe Ave.	Former Dry Cleaner	Solvent Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
l	Frey the Wheel Man — 110 Savannah St.	Former Auto Repair Shop; USTs; Spill Record	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
J	Strong Museum – 1 Manhattan Sq.	Former Auto Repair Shops; Former Dry Cleaners; Former Gas Stations; USTs; Spill Record	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters

Table 4-1 Summary of Recommendations

Site	Property Name and Address	Environmental Co	D	
Sile		Known	Potential	Recommendation
К	Ambassador Apartments – 86 S. Union St.	USTs	Petroleum Contamination, Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
L	Chaintreuil Jensen Stark Architects, LLP & Roc Brewing Co. – 54-56 S. Union St.	Former Auto Sales & Service	Petroleum and General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
М	Vacant Lot – 48 S. Union St.	Former Gas Station; Former Used Car Lot; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Ν	Upstate Gallery Antiques – 16 Gardiner Pk.	Former Auto Repair Shop	Petroleum Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
0	Bethel Christian Fellowship – 321 East Ave.	Former Gas Station; Former Auto Sales & Service; Former Auto Repair Shop; USTs; Spill Record	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Р	Corporate Place LLC – 255 East Ave.	Former Auto Sales & Service; Former Auto Repair Shop; Former Manufacturing Facility; ASTs; Spill Record	Petroleum and General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Q	Parking Lot – 292-316 East Ave. & 14-16 N. Union St.	Former Auto Sales & Service; Former Dry Cleaner; Former Neon Sign Mfg; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
R	Arena's Florist & Grater Architects – 258-264 East Ave.	Former Auto Tire Shop; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
S	Little Theatre Film Society Café — 5-7 Pitkin St.	Former Auto Repair Shop; USTs	Petroleum Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Т	Smart Import Parts — 15-17 Pitkin St.	Former Truck Repair Shop; USTs	Petroleum Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters

Table 4-1 Summary of Recommendations

[Property Name and Address	Environmental Co	Recommendation	
Site		Known	Potential	Recommendation
U	Wendy's of Rochester – 18-20 N. Union St.	Former Auto Repair Shop; Former Manufacturing Facility	Petroleum and General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
٧	NYSUT and Rochester Eye & Laser Center — 30-32 N. Union St.	Former Auto Repair Shop; Former Auto Sales & Service; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
W	Nix Rubber Stamp – 81 Charlotte St.	Former Manufacturing Facility	General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
х	Parking Lot – 80 Charlotte St.	Former Dry Cleaner; Brownfield; Former Manufacturing Facility; USTs; Spill Record	Petroleum and General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Υ	Vacant Lot – 47 Haggs Al.	Former Auto Repair Shop	Petroleum Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
Z	Parking Lot – 56 N. Union St.	Former Auto Repair Shop; Former Auto Sales & Service; Spill Record	Petroleum Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
AA	Tyron Contracting Services Inc. – 68-70 N. Union St.	Former Gas Station; Former Used Car Lot; USTs	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
BB	Sam Lovetro Automotive – 44 Richmond St.	Auto Repair Shop	Petroleum Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
CC	Vacant Building and Parking Lot – 36 Richmond St.	Former Auto Repair Shop; Former Dry Cleaner; Former Printer; Former Manufacturing Facility	Petroleum and General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
DD	Vacant Building and Parking Lot — 34 Richmond St.	Former Auto Repair Shop	Petroleum Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
EE	Action Telephone – 28 Richmond St.	Former Auto Repair Shop; Former Tool Shop	Petroleum and General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters

Table 4-1 Summary of Recommendations

C:1-	Property Name and Address	Environmental Concerns		Recommendation
Site	Property Name and Address	Known	Potential	Recommendation
FF	Dimitri House Inc. – 100-104 N. Union St.	Former Auto Repair Shop	Petroleum Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
GG	Men's Fashion House & Tailoring – 581-583 E. Main St.	Former Gas Station; Former Auto Sales & Service; Former Dry Cleaner; USTs; Spill Record	Petroleum and General Industrial Contamination; Abandoned USTs	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
HH	Enterprise Rent-A-Car – 568-580 E. Main St.	Former Gas Station; Former Auto Sales & Service; Former Dry Cleaner	Petroleum and General Industrial Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters
	World of Inquiry School #58 – 200 University Ave.	Spill Record	Petroleum Contamination	Limited Subsurface Investigation Depending on Alternative Selected and Design Parameters

APPENDIX K Air Analysis

AIR QUALITY ANALYSIS REPORT

for

P.I.N. 4940.T7 INNER LOOP RECONSTRUCTION PROJECT SOUTH CLINTON AVENUE TO SCIO STREET CITY OF ROCHESTER, MONROE COUNTY

December 2013

Prepared For:

STANTEC 61 COMMERCIAL STREET ROCHESTER NY 14614

For Submission To:

CITY OF ROCHESTER 30 CHURCH STREET ROCHESTER, NEW YORK 14614

And NEW YORK STATE DEPARTMENT OF TRANSPORTATION 50 WOLF ROAD ALBANY, NEW YORK 14203



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ATTACHMENTS

Attachment A Project Location and Study Area Maps

Attachment B Mesoscale Analysis Summary of Emission Factors

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EXECUTIVE SUMMARY

Watts Architecture & Engineering (Watts) was retained by Stantec to perform an Air Quality Analysis for the City of Rochester, on the Inner Loop Transformation Project, City of Rochester, Monroe County, New York (PIN 4940.T7).

This Air Quality Analysis Report evaluates the effect of the proposed design alternative on transportation related pollutant emissions within the study area of the reconstruction project. For this project, a conformity review, a mesoscale analysis and a microscale analysis screening were performed to satisfy the requirements of the National Environmental Protection Act (NEPA), the State Environmental Quality Review Act (SEQRA), and the Clean Air Act Amendment 1990 (CAAA90). The methodology conformed to NYSDOT's The Environmental Manual (TEM) 2010 which, for the Air Quality Section, currently adheres to the Environmental Procedures Manual (EPM), Section 1.1.

Conformity Review:

The proposed project is located in Monroe County, which is part of the Genesee Transportation Council (GTC). GTC is the designated Metropolitan Planning Organization (MPO) in the Genesee-Finger Lakes Region. The USEPA has designated Monroe County as in attainment for all applicable transportation related priority pollutants. Therefore, the region is not currently subject to conformity procedures per Section 176 of the CAAA90 and 40 CFR Parts 51 and 93; the GTC is not currently required to perform air quality analysis for the Region; and a conformity determination is not required for this project.

Mesoscale Analysis:

A mesoscale analysis was performed for this project. The results of a mesoscale analysis are relative and do not directly indicate that emissions in the study area are expected to be above regulatory thresholds. The mesoscale analysis is used to compare alternatives and as a screening tool to identify individual pollutants that may require additional study. The mesoscale analysis was performed for five indicator pollutants under years 2015, 2025, and 2035 for both the No-Build and Build alternatives. The emission factors for the analysis were determined from the MOVES (Motor Vehicle Emission Simulator) 2010b computer model, which is currently the approved emission factor model.

The results of the mesoscale analysis indicated that the emissions burdens for all five pollutants are expected to increase within the project area if the Build Alternative is constructed. Pollutant increases predicted under the Build Alternative ranged from 4% to 27% for all years. However, for this project it should be noted that, percent changes were inflated due to the limited study area. This project is expected to affect only the immediate area of the project corridor and not the surrounding roadway network. The effect of a limited study area can yield inflated percent changes for a mesoscale analysis

since there is no dilution of the project's effects from the surrounding roadways with minor changes.

The higher pollutant emission rates for the Build Alternative are due to the conversion of a limited access roadway with consistent free-flow speeds averaging 50 mph to a full access roadway with 30 mph signal controlled stop-and-go traffic. Generally, the changes represented by this project will slow traffic along this corridor to speeds similar to that of other City streets within the surrounding roadway network such as Monroe Avenue, East Avenue, and East Main Street. Therefore, regardless of the percent increase in emissions from the downgrade of this freeway to a City street, future emissions along the proposed corridor would likely be similar to the expected background emissions found on other comparable volume streets present in this area of the City.

There is no EPM specified mesoscale percentage level change that would indicate that these pollutants would require further study or documentation; however, the general rule of thumb is an increase of more than 10% for the build alternatives. Since the maximum percentage increases for these pollutants is more than 10% for four of the pollutants, these percentage increases were further screened and documented in the design approval document. Further screening of the project was performed to indicate whether additional study in the form of microscale or hot-spot analyses would be appropriate.

Microscale Screening:

Microscale screenings indicated that microscale analysis is <u>not</u> warranted and; therefore, the proposed project is not expected to have significant air-quality impacts. The microscale screening of the corridor indicated that the overall volumes and the heavy vehicle volumes along the corridor are too low (below the thresholds) to warrant an indepth microscale analysis for the indicator compounds carbon monoxide (CO) or particulate matter (PM). Therefore, in accordance with the EPM guidance, the screening indicates that a violation of the NAAQS regulatory thresholds is considered "extremely unlikely" for CO and PM and no further study is warranted. Additionally, due to the mandatory reduction of lead in gasoline, the FHWA has advised that a microscale lead analysis for highway projects is not needed or warranted.

Construction Air Quality:

Construction related air quality screening has indicated that no detailed analysis will be required for this project. Although air quality within the project corridor and the immediate vicinity will experience impacts during the construction period, the use of abatement measures for dust control and proper vehicle maintenance should lessen the severity of these impacts.

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1.0 INTRODUCTION

Watts Architecture & Engineering (Watts) was retained by Stantec to perform an Air Quality Analysis for the City of Rochester, on the Inner Loop Transformation Project, City of Rochester, Monroe County, New York (PIN 4940.T7). See **Figure 1** in **Attachment A** for the Project Location Map.

1.1 Purpose

This Air Quality Analysis Report evaluates the effect of the proposed design alternative on transportation related pollutant emissions within the study area of the reconstruction project. For this project, a Mesoscale Analysis and a Microscale Analysis screening were performed to satisfy the requirements of the National Environmental Protection Act (NEPA), the State Environmental Quality Review Act (SEQRA), and the Clean Air Act Amendment 1990 (CAAA90). Requirements are codified in 23 CFR Part 771, 17NYCRR Part 15, and Titles I and II of the CAAA90, respectively.

1.2 Scope

The methodology for the analysis conforms to the NYSDOT The Environmental Manual (TEM) 2010 which, for the Air Quality Section, currently adheres to the Environmental Procedures Manual (EPM), Section 1.1. The EPM has been approved by the United States Environmental Protection Agency (USEPA), the New York State Department of Environmental Conservation (NYSDEC), and the Federal Highway Administration (FHWA) for use in the assessment of the air quality effects from highway projects.

The existing air quality within the project study area has been reviewed and the proposed project's conformity with the State Implementation Plan for air quality, the Transportation Improvement Plan, and the Long Range Transportation Plan were also reviewed.

An air quality screening was performed for this project. The air quality screening involves an analysis of the project's potential air quality impacts to the surrounding environment to determine if further in-depth studies are appropriate (such as a mesoscale or a microscale analysis).

The air quality screening indicated that a Mesoscale Analysis should be performed for this project. The scope of the Mesoscale Analysis included assessment of the proposed project's relative effects on the air quality of the project study area resulting from changing traffic patterns. The total project emissions burden for each of five pollutants were calculated for the estimated time of completion (ETC), ETC+10, and ETC+20 for the No-Build Alternative and the Build Alternative. The emissions burdens for the No-

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2.0 BACKGROUND

2.1 Project Location

The proposed project is located in the City of Rochester, Monroe County, New York. The project study area limits for the air study are shown in **Figure 2** in **Attachement A.**

2.2 Project Description

The proposed project involves raising the eastern portion of the Inner Loop from East Main Street to Monroe Avenue/Chestnut Street, to an at-grade boulevard.

Due to the relatively low traffic volume currently serviced by this section of the Inner Loop, the project is expected to mainly affect the immediate construction area and have a relatively negligible effect on the traffic volumes of the surrounding roadway network.

This project has two alternatives, a No-Build Alternative and a Build Alternative. The No-Build Alternative would involve only maintenance to the existing highway. The build alternative would involve raising this section of the Inner Loop to grade.

Additional information on Build Alternative is available in the project's Design Approval Document.

2.3 Existing Air Quality

The CAAA90 requires air monitoring throughout New York State. The monitoring is performed by the NYSDEC, in accordance with USEPA requirements, using standardized air monitoring equipment, siting locations, and procedures. The NYSDEC annually reports levels of various National Ambient Air Quality Standards (NAAQS) priority pollutants to the USEPA and publishes them periodically.

2.3.1 Regional Priority Pollutants

The following summary of regional priority pollutants was obtained from the NYSDEC New York State Ambient Air Quality Report for 2012. Pollutant data from various local monitoring stations have been compiled since there is no single station near the project corridor that monitors all the pollutants. A summary of the Regional Priority Pollutants and corresponding NAAQS can be found in **Table 2-1**.

Carbon monoxide concentrations at the monitoring station in the Rochester area indicate compliance with the one-hour and eight-hour average emission NAAQS

3

in 2012. Generally, annual CO concentrations have remained stable or declined for the past few years. This trend reflects better emission controls on new motor vehicles and their inspection/maintenance.

Ozone (one-hour and eight-hour averages) concentrations at the Rochester area monitoring station were below the NAAQS in 2012. The implementation of more stringent volatile organic compound (VOC) emission controls including the mandatory use of less volatile gasoline in all areas of New York State since 1990 have lowered statewide ozone concentrations.

Inhalable Particulate levels less than 2.5 microns (PM 2.5) in the Rochester area were below the NAAQS in 2010, 2011, and 2012 for the three year annual mean. The reductions in PM 2.5 concentrations during the past 30 years have been achieved mainly through the implementation of New York State and Federal regulations on particulate emissions from incinerators, industrial processes, and fuel sources.

Inhalable Particulate (PM 10) levels in the Rochester area were below the NAAQS in 2012. PM 10 levels in this region are primarily linked to the fine particulate emissions from diesel-powered vehicles.

Sulfur dioxide concentrations, both long term (annual) and short term (one-hour, three-hour and 24-hour) were below the NAAQS in 2012. The Statewide reduction in ambient sulfur dioxide concentrations during the past 30+ years is a result of New York State fossil fuel regulations and the limitations on sulfur content in industrial processes.

Nitrogen dioxide concentrations were reported less than the NAAQS levels in 2012. Like carbon monoxide, there has been a general trend of decreasing concentrations since 1988. These trends reflect better emission controls on new motor vehicles and their inspection/maintenance.

Lead concentrations were reported less than the NAAQS levels in 2012. The continued decline of lead emissions throughout the State is the result of the elimination of lead additives in motor fuel.

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TABLE 2-1 Regional Priority Pollutants Air Quality Data Summary - 2012

Pollutant	Units	Interval	Nearest	Monitoring	Station	AA	(QS
			Name	Conc	entration	State	Federal
			(ID Number)	Average	Maximum		
Carbon Monoxide	(ppm)	Annual A.M.	Rochester 2	0.2		NC	NC
		8-Hr. Average	(2701-22)		0.9	9	9
		1-Hr. Average			1.3	35	35
Ozone	(ppm)	Annual A.M.	Rochester 2	0.028		NC	NC
		1-Hr. Average	(2701-22)		0.104	NC	NC
		8-Hr. 4 th Average		0.071	0.075	0.075	0.075
		(3-year)			0.072 0.066 (2010) (2011)		
Inhalable	(ug/m³)	3 yr Annual A.M.	Rochester 2	8.7		15	15
Particulates (PM 2.5)		98% 3yr Average (24-hour)	(2701-22)	23		35	35
 Inhalable	(ug/m³)	Annual A.M.	Rochester 2	13		NC	NC
Particulates (PM 10)	(3, 7	24-Hr. Average	(2701-22)		27	150	150
Sulfur Dioxide	(ppb)	Annual A.M.	Rochester 2	0.99		30	30
	,	24-Hr. Average	(2701-22)		8.0	140	140
		3-Hr. Average			16.2	500	500
		1-Hr. Avg. of 3 yrs		23		75	75
Nitrogen Dioxide	(ppb)	Annual A.M.	Buffalo	10.46		53	53
		1-Hr. Avg. of 3 yrs	(1401-18)	56		75	75
Lead	(ug/m³)	Annual G.M.	Rochester 2	0.002		0.15	0.15
		3 Month Average	(2701-22)	0.003		0.15	0.15
		(lead-PM10					
		Sampler)					

Notes: ppm - parts per million; A.M. - Arithmetic Mean; AAQS - Ambient Air Quality Standard; ug/m^3 - micrograms per cubic meter; G.M. - Geometric Mean; Concentration in bold indicates that it exceeds the standard; NC - No Current standard. SOURCE: NYSDEC New York State Ambient Air Quality Report for 2012

2.3.2 Attainment Classification

The proposed project is located in Monroe County, which is part of the Genesee Transportation Council (GTC). GTC is the designated Metropolitan Planning Organization (MPO) in the Genesee-Finger Lakes Region. The USEPA has designated Monroe County as in attainment for all applicable transportation related priority pollutants. Therefore, the region is not currently subject to conformity procedures and the GTC is not currently required to perform air quality analysis for the Region.

2.4 Conformity

The conformity requirements for local transportation plans and the proposed project are found in Section 176 of the CAAA90 and 40 CFR Parts 51 and 93 Criteria and Procedures for Determining Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Funded or Approved Under Title 23 U.S.C. or the Federal Transit Act.

Since the GTC Region is in attainment for all applicable transportation related pollutants a conformity determination is not required for this project.

3.0 MESOSCALE EMISSION ANALYSIS

3.1 Methodology

The methodology for the analysis conforms to the NYSDOT EPM, Chapter I and subsequent updates that have been distributed by the Engineering Division - Office of Environment (ref. 1). The analysis was performed for nitrogen oxides (NOx), volatile organic compounds (VOCs), carbon monoxide (CO), and two particulate matter (PM) fractions: PM-10, and PM-2.5. Peak hour emissions were estimated for all five pollutants based on the peak hour traffic volume and speed for each segment of the affected roadways (see **Attachment C** for volumes). This information resulted in a comparison of the proposed project's total emissions (per alternative) relative to the No-Build Alternative total emissions.

Mesoscale assumptions and inputs were agreed upon, prior to starting, in a proposed methodology letter dated July 2, 2013. Mesoscale assumptions, inputs, and results are presented below.

3.2 Emission Factors

The emission factors were determined from the MOVES (Motor Vehicle Emission Simulator) 2010b computer model, which is currently the approved emission factor model. MOVES generates emission factors based on varying characteristics of the vehicle fleet and adopted emission control strategies. Characteristics include the vehicle type, speed, operating mode of the vehicles, ambient temperature, and other factors.

County level emission rates for 2015, 2025, and 2035 from the MOVES 2010b computer model were predicted for all five pollutants by speed and road type. These MOVES values were then used to determine the all-vehicle emissions for roadways in the proposed project study area. See **Attachment B** for a summary of emission factors used and the MOVES model input printouts.

3.3 Traffic Volumes

PM peak hour traffic volumes were used for the analysis. All traffic volumes for the mesoscale analysis were obtained from Stantec. Due to the proposed roadway realignments and ramp modifications, traffic patterns within the project corridor will be changed. In addition, the proposed improvements are expected to generate additional traffic within the project corridor. Additional information on traffic volumes can be found in the design approval document for this project.

3.4 Traffic Speeds

The vehicle operating speeds used for the analysis are generally the free flow speeds obtained from the design approval document and modified to accommodate traffic control along the corridor. For the build scenario, the speeds were lowered along Union Road (former Inner Loop) to accommodate for the traffic calming measures that have been incorporated into the proposed design. Speeds used for each link in the analysis are presented in the tables within **Attachment C**.

3.5 Mesoscale Analysis Results

The emission estimates for each alternative were based on the vehicle volume, vehicle classifications, and speed for each segment of the roadway on a link-by-link basis. Vehicle emissions from the affected roadways have been analyzed to study the proposed project's total emissions (per alternative) relative to the No-Build Alternative total emissions.

Vehicle average speed, segment lengths, traffic volumes, and emission factors for each segment of the affected roadways are summarized in the tables in **Attachment C**. The tables in **Attachment C** list the calculated peak-hour, vehicle-miles-traveled (VMT) and total hourly emissions for each roadway segment for VOC, CO, NOx, PM10, and PM2.5 in years 2015 (ETC), 2025 (ETC+10), and 2035 (ETC+20) for the no-build and build alternatives.

Table 3-1 is a summary of total emissions (in grams) for the No-Build and Build Alternative. The results indicate that the Build Alternative generally has a greater amount of emissions for all five pollutants than the No-Build Alternative. The results of the Mesoscale analysis indicate that construction of the Build Alternative would result in emissions burden increases in the project study area, for all three years of study, ranging from:

- 4.00% to 13.41% for CO
- 6.83% to 9.12% for NOx
- 14.68% to 21.75% for VOCs
- 17.38% to 26.72% for PM-10
- 9.90% to 20.86% for PM-2.5

3.6 Mesoscale Analysis Conclusions

The emissions burdens for all five pollutants are expected to increase within the project area if the Build Alternative is constructed. The maximum expected increases over all

three years of study for CO (13.41%), NOx (9.12%), VOCs (21.75%), PM-10 (26.72%), and PM-2.5 (20.86%) should be noted in the appropriate section of the design approval document. However, the results of the Mesoscale analysis are relative and do not directly indicate that the emissions in the area are expected to be above regulatory thresholds. The Mesoscale results may be used as a screening tool to identify individual pollutants that are more likely to exceed regulatory levels in the future.

The higher pollutant emission rates for the Build Alternative are due to the conversion of a limited access roadway with consistent free-flow speeds averaging 50 mph to a full access roadway with 30 mph signal controlled stop-and-go traffic. Slower speed stop-and-go traffic is less efficient and would generate higher emission levels for all five of the studied pollutants. However, it should be noted that, since this project is expected to affect only the immediate area of the project corridor and not the surrounding roadway network, this study was performed on a limited study area as shown in **Appendix A**. The effect of a limited study area can yield inflated percent changes for a mesoscale analysis since there is no dilution of the project's effects from the surrounding roadways with minor changes.

Generally, the changes represented by this project will slow traffic along this corridor to speeds similar to that of other City streets within the surrounding roadway network such as Monroe Avenue, East Avenue, and East Main Street. Therefore, regardless of the percent increase in emissions from the downgrade of this freeway to a City street, future emissions along the proposed corridor would likely be similar to the expected background emissions found on other comparable volume streets present in this area of the City.

There is no EPM specified percentage level that would indicate that these pollutants would require further study; however, the general rule of thumb is an increase of more than 10% for the build alternatives. Since the maximum percentage increases for these pollutants is more than 10% for four of the pollutants, these percentage increases must be further screened and documented in the design approval document. A screening of the project was performed to indicate whether additional analysis in the form of microscale or hotspot analyses would be appropriate (see Section 4.0).

SOUTH CLINTON AVENUE TO SCIO STREET CITY OF ROCHESTER, MONROE COUNTY INNER LOOP RECONSTRUCTION PROJECT Mesoscale Analysis Comparison Table P.I.N. 4940.T7 Table 3-1

Comparison of Project Study Area Emissions Burdens (units = g/hr)

	Alterna	Alternative 1 - No Build	Build		Alternative	2A – Prefe	Alternative 2A – Preferred Build Alternative	Alternative		Potential Significant Env.
	ETC	ETC+10	ETC+10 ETC+20	ETC	% Change	ETC+10	% Change	ETC+20	% Change	Impact Thresholds Met*
VOCs	236	158	134	271	14.68%	184	16.56%	164	21.75%	Yes*
NOx	1,019	612	527	1,090	6.94%	653	6.83%	575	9.12%	None
00	6,460	5,420	4,797	6,728	4.15%	5,637	4.00%	5,440	13.41%	Yes*
PM-10	93	85	83	109	17.38%	103	20.44%	105	26.72%	Yes*
PM-2.5	52	42	38	22	9.90%	47	12.18%	46	20.86%	Yes*

* All impacts must be listed in the design approval document. Specific thresholds are not set for these compounds; however, a greater than 10% increase over the No-Build is the commonly used threshold for these compounds. Notes:

NOx = nitrogen oxides
VOCs = volatile organic compounds
VOCs = volatile organic compounds
CO = carbon Monoxide
PM = particulate matter
ETC = Estimated Time of Completion
TEM/EPM = NYSDOT's The Environmental Manual (TEM) 2010 which, for the Air Quality Section, currently adheres to the Environmental Procedures Manual (EPM)

4.0 MICROSCALE/HOT-SPOT ANALYSIS

4.1 Methodology

The methodology for this analysis conforms to the NYSDOT EPM, Chapter I and all subsequent updates that have been distributed by the Engineering Division - Office of Environment (ref. 1). The project was screened per the EPM criteria identified below to determine if microscale analysis was appropriate.

4.2 CO Microscale Analysis Screening

The EPM CO microscale screening is a screening of the corridor to identify potential locations, for further study, that may exceed the air quality standards in the future. The project corridor was screened to determine if any of the intersections under the project's build alternative met the EPM level-of-service, capture criteria, and volume thresholds to warrant a microscale analysis for carbon monoxide (CO). There are three sets of criteria, each of which must be met to warrant the performance of a CO microscale air-quality analysis. These are:

- Level-of-Service (LOS) Screening. This criterion states that intersections with a build ETC, ETC+10, and ETC+20 LOS of D, E, or F should be considered for a microscale analysis;
- Capture Criteria Screening. Intersections meeting the LOS Screening Criterion should be screened against the following:
 - A 10% or more reduction in source-receptor distance (the straight-line distance between the edge of the travel lane closest to the receptor and that point of the receptor closest to the roadway);
 - A 10% or more increase in traffic volume on affected roadways for ETC, ETC+10, or ETC+20;
 - A 10% or more increase in vehicle emissions for ETC, ETC+10, or ETC+20. Increases in vehicle emissions can be due to speed changes, changes in operating conditions (hot/cold starts), changes in vehicle mix, etc;
 - Any increase in the number of gueued lanes; or

- A 20% reduction in speed, when the estimated average speed is 48 km/hr;
 and
- Volume Threshold Screening. Intersections that meet both the LOS Screening and the Capture Criteria Screening must also meet the volume/emission factor thresholds that are presented in the EPM.

Intersections that meet both the volume threshold screening, the LOS screening, and any one of the capture criteria should be considered for CO microscale airquality analysis.

This project meets some of the above capture criteria; however, under the projected emission factors (based on MOVES analysis), this corridor does not have sufficient volume to meet the volume/emission factor thresholds that are presented under the EPM "Volume Threshold Screening". Therefore, the screening indicated that none of the project's intersections or free-flow areas warrant microscale analysis for CO.

4.3 PM-10 and PM-2.5 Microscale Analysis Screening

In accordance with the TEM/EPM, this project has been screened through the requirements identified in the December 2010 EPA document "Transportation Conformity Guidance for Quantitative Hot-Spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas" (EPA-420-B-10-040). In accordance with EPA-420-B-10-040, the requirement for a microscale (a.k.a hot-spot) analysis is triggered by a project related significant increase in diesel vehicles. EPA's final rule on PM hot-spot analyses requires localized assessment for projects of air quality concern. The final rule defines the projects of air quality concern that require a $PM_{2.5}$ or PM_{10} hot-spot analysis in 40 CFR 93.123(b)(1) as:

- 1. New or expanded highway projects that have a significant number of or significant increase in diesel vehicles;
- 2. Projects affecting intersections that are Level-of-Service D, E, or F with a significant number of diesel vehicles, or those that will change to Level-of-Service D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the project;
- 3. New bus and rail terminals and transfer points that have a significant number of diesel vehicles congregating at a single location;
- 4. Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location; and
- 5. Projects in or affecting locations, areas, or categories of sites which are identified in the $PM_{2.5}$ or PM_{10} applicable implementation plan or

implementation plan submission, as appropriate, as sites of violation or possible violation.

Since it is not anticipated that the Build Alternative will cause an increase in diesel vehicles, a PM microscale analysis is not warranted for this project.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Emission Analyses

Emission analyses and screenings indicated that the proposed project is not expected to have significant CO, NOx, VOCs, PM-10, and PM-2.5 air-quality impacts. The replacement of the expressway with a full access City street is expected to raise pollutant emission rates between 9% and 27% for the immediate area of the corridor. Regardless, the screening of the corridor indicated that the overall volumes and the heavy vehicle volumes along the corridor are too low (below the thresholds) to warrant an in-depth microscale analysis for CO or PM. Therefore, in accordance with the EPM guidance, the screening indicates that a violation of the NAAQS is considered "extremely unlikely" for CO and PM and no further study is warranted.

5.2 Lead Emissions

The FHWA has advised that a microscale lead analysis for highway projects is not needed or warranted. Lead emissions have been substantially reduced from past levels due to the reduction of lead in gasoline. Future lead emissions will continue to be reduced and eventually eliminated as a result of regulation and legislation. Measures include the prohibition of the manufacture, sale, or introduction into commerce of any engine requiring leaded gasoline (since model year 1992) and the requirement for reformulated gasoline to contain no heavy metals.

5.3 Construction Impacts on Air Quality

Construction vehicles emit pollutants and generate dust during the construction phase. Most pollutants, emitted by either gasoline or diesel powered engines, will have a temporary, minor impact on the study area's air quality. Dust particulates may remain airborne for several hours and, under conducive meteorological conditions, may settle at some distance from the construction site.

Provisions to control construction-generated pollution are specified in Section 107-11 of the NYSDOT <u>Standard Specifications - Construction and Materials</u> (ref. 3). Additional abatement measures to control dust include watering, cover materials, and the application of calcium chloride. The maintenance of construction equipment in proper operating condition will aid in the reduction of vehicle emissions.

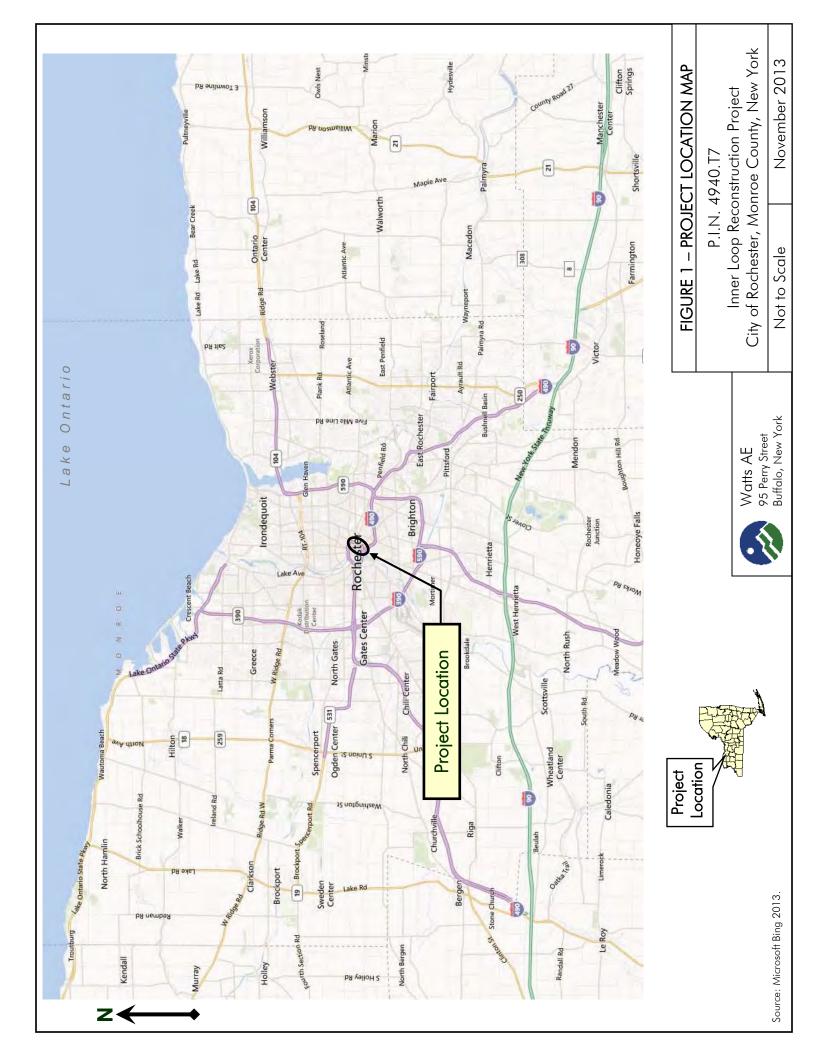
Although air quality within the project corridor and the immediate vicinity will experience impacts during the construction period, the use of abatement measures

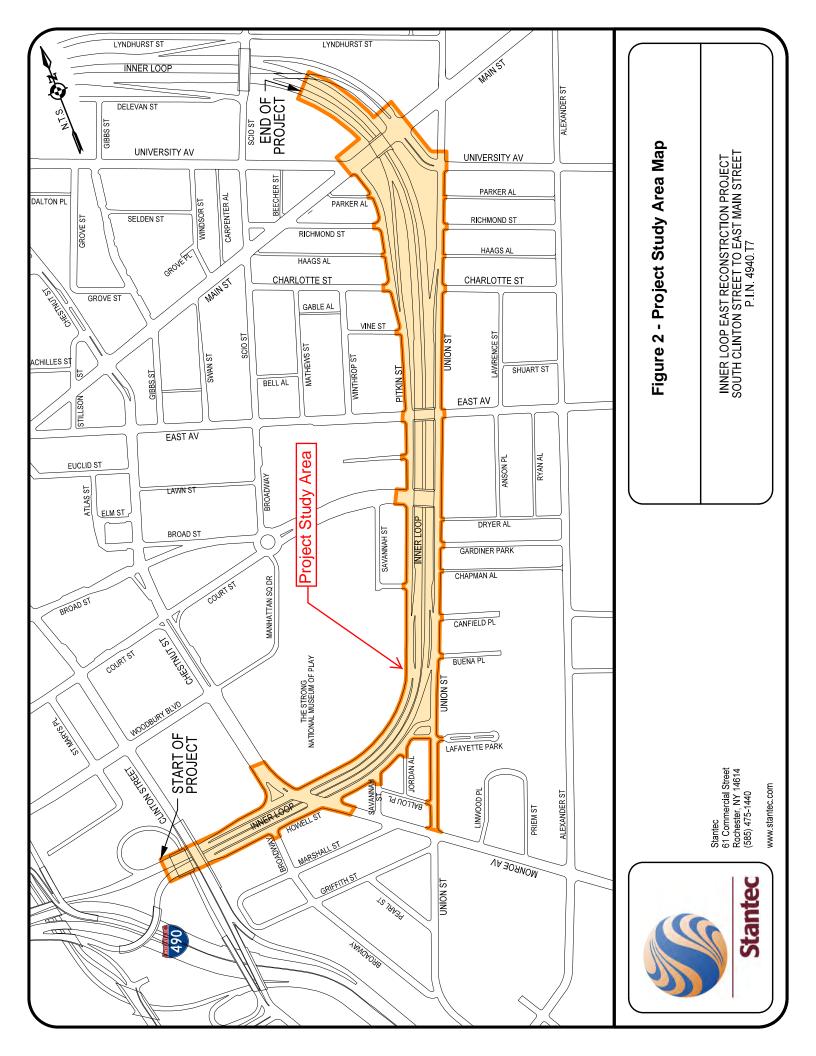
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6.0 REFERENCES

- 1. NYSDOT. <u>Environmental Procedures Manual (EPM)</u>, prepared by the NYSDOT Engineering Division Office of Environment (formerly the Environmental Analysis Bureau) 2008. Air Quality Analysis Procedures (Section 8 of Chapter 1.1 was updated in December 2012).
- 2. NYSDEC. <u>2011 Annual New York State Air Quality Report, Ambient Air Monitoring</u> System.
- 3. NYSDOT. <u>Standard Specifications Construction and Materials, Section 107-11</u>.
- 4. USEPA. <u>Transportation Conformity Guidance for 2008 Ozone Nonattainment Areas</u> (EPA-420-B-12-045), July 2012









Inner Loop Corridor (PIN 4940.T7)
MESOSCALE ANALYSIS
MOVES Emission Factors (Watts 9/2013)
For Monroe County

Year: 2015

0.101169 0.094288 0.088768 0.089767 0.084246 0.080382 09 22 20 0.11582 0.108256 0.108111 0.097443 45 40 0.13749 0.125204 0.14081 0.122405 35 Average Vehicle Speed (mph) 20 25 30 0.31938 0.237092 0.185321 0.155468 0.317656 0.234841 0.191896 0.161529 15 10 VOC Rate - Summer Average PM Peak (gram/mile) - By MOVES Road Type 1.081508 0.572245 1.071215 0.567553 2 2.5 Off-Network
Rural Restricted Access
Rural Unrestricted Access
Urban Restricted Access
Urban Unrestricted Access **MOVES Road Description** Road Type

75

20

65

0.086105 0.088565 0.079099 0.082099

NOx Rate - Summer Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average Vehicle Sp	le Speed (mph)	nph)									
Road Type	MOVES Road Description	2.5	2	10	15	20	25	30	35	40	45	20	55	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	2.681111	1.611364 1.04293	25	0.728324	0.587334	0.548596	0.53551	0.527486	0.532107	0.532916	0.526879	0.520129 0.516755		0.539598 0.571631	_	0.598979
2	Urban Unrestricted Access	2.593106	.593106 1.564192	1.037699	0.832118	0.704896	0.61976	0.547747	0.507834	0.490483	0.482247	0.49106	0.49106 0.497329 (0.496267	0.514063	0.548659	0.580553

CO Rate - Winter Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average Vehicle Speed (mph)	le Speed (mph)									
Road Type	Road Type MOVES Road Description	2.5	2	10	15	20	25	30	35	40	45	20	22	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	12.08563	12.08563 7.209222 4.752	4.752505	3.874111	3.382078	3.183108	3.203366	3.482826	3.708658	3.847209	2505 3.874111 3.382078 3.183108 3.203366 3.482826 3.708658 3.847209 3.812181 3.667325 3.561075 3.568721 3.832803	3.667325	3.561075	3.568721	3.832803	4.456034
2	Urban Unrestricted Access	11.85443	1.85443 7.478211	5.32956	4.626892		3.559637	1.150836 3.559637 3.356793 3.084239	3.084239	2.866326	2.733848	2.866326 2.733848 2.690815 2.698389 2.747147 2.871509 3.144278	2.698389	2.747147	2.871509		3.875934
																h	

Inner Loop Corridor (PIN 4940.T7)
MESOSCALE ANALYSIS
MOVES Emission Factors (Watts 9/2013)
For Monroe County
Year: 2025

VOC Rate - Summer Average PM Peak (gram/mile) - By MOVES Road Type

0		10 11 6		3													
					Ave	Average Vehicle Speed (mph)	le Speed (r	nph)									
Road Type	Road Type MOVES Road Description	2.5	5	10	15	20	25	30	35	40	45	20	55	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	0.684799	0.684799 0.362735 0.20281	0.20281	0.151481 0.118106	0.118106	0.09845	0.086731	0.078916	0.072749	0.067793	0.063223	0.058496 0.054753 0.053009	0.054753	0.053009	0.055311	0.059642
2	Urban Unrestricted Access	0.678224	0.678224 0.360256	0.20262	0.150336	0.122603	0.102239	0.089263	0.076655	0.066684	0.059267	0.059267 0.054057 (0.05038	0.05038 0.047897 0.047356	0.047356	0.050272	0.055471

NOx Rate - Summer Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average Vehicl	le Speed (mph)	nph)									
Road Type	MOVES Road Description	2.5	5	10	15	20	25	30	35	40	45	20	22	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	1.509165	0.897917 C	325.	0.402342	3973 0.402342 0.325513 0.304449 0.298909 0.298446 0.303775 C	0.304449	0.298909	0.298446	0.303775	0.306383	0.304274	0.301369	0.300399	0.306383 0.304274 0.301369 0.300399 0.315728 0.338687	0.338687	0.36183
2	Urban Unrestricted Access	1.460643	0.873476 0.573	0.573581	0.45716	0.385724	0.337404	0.303924	0.285875	0.27879	.275985	0.282553 0.287536 0.287741	0.287536	0.287741	0.299322	0.323825	0.350271

CO Rate - Winter Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average Vehicle Speed (mph)	le Speed (i	mph)									
oad Type	Road Type MOVES Road Description	2.5	5	10	15	20	25	30	35	40	45	20	22	09	65	20	75
	Off-Network																
	Rural Restricted Access																
	Rural Unrestricted Access																
	Urban Restricted Access	8.250216	8.250216 5.044826 3.418	3.418162	2.835281	2.510799	2.395314	2.450694	2.754228	2.988908	3.139342	2.835281 2.510799 2.395314 2.450694 2.754228 2.988908 3.139342 3.125572 3.007364 2.924974 2.937968	3.007364	2.924974	2.937968	3.18667	3.76771
	Urban Unrestricted Access	8.065041	5.310443	8.065041 5.310443 3.965906 3.5	330085	3.191286 2.711528 2.599227	2.711528	2.599227	2.396234	2.226845	2.127754	2.396234 2.226845 2.127754 2.104955 2.125659 2.182693 2.300646	2.125659	2.182693	2.300646	2.556421	3.23888

Inner Loop Corridor (PIN 4940.T7)
MESOSCALE ANALYSIS
MOVES Emission Factors (Watts 9/2013)
For Monroe County
Year: 2035

VOC Rate - Summer Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average Vehicle Speed (mph)	le Speed (r	nph)									
Road Type	MOVES Road Description	2.5	2	10	15	20	25	30	35	40	45	20	22	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	0.567475 (0.30144 0.17031	_	0.127616	0.098167 (0.080596	0.069432	0.060226	0.053335	0.047969	0.053335 0.047969 0.043968 0.040792 0.038477 0.038146 0.041817	0.040792	0.038477	0.038146		0.047444
2	Urban Unrestricted Access	0.56265	0.30006 0.17000	9	0.126888 (0.103751 (0.086323	0.075604	0.064648	0.055897	0.049405	0.04473 0.041466	0.041466	0.03942 0.039191		0.042252	0.047446

NOx Rate - Summer Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average Vehicle S	le Speed (mph)	nph)									
Road Type	Road Type MOVES Road Description	2.5	5	10	15	20	25	30	35	40	45	20	22	09	65	70	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	1.230452	1.230452 0.743894 0.4860	0.486032	032 0.332431 (0.262206	0.262206 0.243704 0.236076 0.232933	0.236076	0.232933	0.23583	0.23583 0.237744 0.236589 0.234959 0.235838 0.250005 0.271486	0.236589	0.234959	0.235838	0.250005		0.294417
2	Urban Unrestricted Access	1.208043	0.72306 0	.476	0.380754	0.319554	0.277961	0.251701	0.238115	0.233443	5519 0.380754 0.319554 0.277961 0.251701 0.238115 0.233443 0.231999 0.237819 0.242231 0.243007 0.251238 0.271288	0.237819	0.242231	0.243007	0.251238		0.294261

CO Rate - Winter Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average venicie Speed (mpn)	e speed (I	udu)									
ad Type	Road Type MOVES Road Description	2.5	2	10	15	20	25	30	35	40	45	20	55	09	65	20	75
	Off-Network																
	Rural Restricted Access																
	Rural Unrestricted Access																
	Urban Restricted Access	7.460764	7.460764 4.644716 3.228764	3.228764	2.686324 2.359333		2.24149	2.174622	2.103657	2.058939	2.023967	2.24149 2.174622 2.103657 2.058939 2.023967 1.983402 1.947225	1.947225	1.9395	1.9395 2.065514 2.409576		3.097349
	Urban Unrestricted Access	7.426303 4.958616	4.958616	3.75493	3.36555	3.36555 3.046706	2.58054	2.479096	2.288393	2.127027	2.033317	2.012397	2.58054 2.479096 2.288393 2.127027 2.033317 2.012397 2.032672 2.087954	2.087954	2.19903 2.44725	2.447254	3.097807

Inner Loop Corridor (PIN 4940.T7)
MESOSCALE ANALYSIS
MOVES Emission Factors (Watts 9/2013)
For Monroe County

2015 PM10 Rate - Yearly Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	rage Vehic	Average Vehicle Speed (mph)	nph)									
Road Type	oad Type MOVES Road Description	2.5	5	10	15	20	25	30	35	40	45	20	55	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	0.447712	0.24248 0.14053	32	106321	0.081981	0.066806		0.05794 0.051856	0.04776	0.044233	0.03997	0.04776 0.044233 0.03997 0.035004 0.031276 (0.031276	0.029129	0.028086	0.028372
2	Urban Unrestricted Access	0.42802	0.42802 0.229002	0.13071	0.097418	0.080235	0.068696	0.056676	0.04635	0.038894	0.033032	0.028281	0.033032 0.028281 0.024983 0.023075 0.022095 (0.023075	0.022095	0.021878	0.022865

2025 PM10 Rate - Yearly Average PM Peak (gram/mile) - By MOVES Road Type

		6	200	2													
					Avera	age Vehicle	Average Vehicle Speed (mph)	(ydı									
Road Type	Road Type MOVES Road Description	2.5	2	10	15	20	25	30	35	40	45	20	22	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	0.414027	0.414027 0.224305 0.129196 0.096954 0.073735 0.059115 0.050269 0.04434 0.039933 0.036242 0.032214 0.027839 0.024581 0.022723 0.0217819 0.022222	0.129196 0	096954 0	.073735	0.059115 (0.050269	0.04434	0.039933	0.036242	0.032214 (0.027839	0.024581	0.022723	0.021819	0.022229
2	Urban Unrestricted Access	0.396364	0.396364 0.211591 0.119537 0.087904 0.071687 0.061348 0.049707 0.04038 0.033345 0.027784 0.023043 0.01978 0.01978 0.01808 0.011712 0.016827 0.017737	0.119537 0	087904 0	.071687 C	0.061348 (0.049707	0.04038	0.033345	0.027784	0.023043	0.01978	0.01808	0.01712	0.016827	0.017737
																-	

2035 PM10 Rate - Yearly Average PM Peak (gram/mile) - By MOVES Road Type

				;	Ave	Average Vehicle Speed (mph)	le Speed (n	nph)									
Road Type	Road Type MOVES Road Description	2.5	2	10	15	20	25	30	35	40	45	20	22	09	65	20	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	0.419977	0.419977 0.224542 0.128004		0.095795	0.095795 0.072042 0.057132 0.047176 0.039064 0.032898 0.028113 0.023907	0.057132	0.047176	0.039064	0.032898	0.028113	0.023907	0.020323	0.017832	0.016727	0.01651	0.01651 0.017615
5	Urban Unrestricted Access	0.388212	0.207319	0.388212 0.207319 0.117093 0	0.086013	0.069965	0.05983	0.048251	0.048251 0.039095 0.032139 0.026641	0.032139	0.026641	0.022019	0.018854	0.018854 0.017222	0.016206	0.015829	0.016688
																h	

Inner Loop Corridor (PIN 4940.T7)
MESOSCALE ANALYSIS
MOVES Emission Factors (Watts 9/2013)
For Monroe County

2015 PM2.5 Rate - Yearly Average PM Peak (gram/mile) - By MOVES Road Type

75 0.029181 0.027724 0.025194 0.02327 0.022446 0.022326 0.020086 0.018688 0.017713 0.017066 0.017083 0.017705 20 65 09 22 20 45 40 0.03152 0.02975 0.029153 0.033137 0.028962 0.024773 35 Average Vehicle Speed (mph) 20 25 30 0.036159 0.058657 0.044713 0.057134 0.04505 15 9 0.179187 0.098305 0.171471 0.094402 2 2.5 Off-Network
Rural Restricted Access
Rural Unrestricted Access
Urban Restricted Access
Urban Unrestricted Access **MOVES Road Description** Road Type

2025 PM2.5 Rate - Yearly Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	rage Vehic	Average Vehicle Speed (mph)	nph)									
Road Type	Road Type MOVES Road Description	2.5	5	10	15	20	25	30	35	40	45	20	22	09	65	70	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	0.146342 (0.080624 0.047	0.047661	0.03564	.03564 0.028182 0.024091	0.024091	0.022358	0.021945	0.021873	0.021945 0.021873 0.021556 (0.020331	0.018361	0.016881 (0.016327	0.016339	0.017126
2	Urban Unrestricted Access	0.14067	0.077526 0.046365	0.046365	0.035907	0.030351	0.026067	0.022258	0.019029	0.016746 0.015031	0.015031	0.013643	0.012703	0.013643 0.012703 0.012258 0.012296	0.012296	0.012851	0.014129

2035 PM2.5 Rate - Yearly Average PM Peak (gram/mile) - By MOVES Road Type

					Ave	Average Vehicle Speed (mph)	le Speed (I	mph)									
Road Type	oad Type MOVES Road Description	2.5	2	10	15	20	25	30	35	40	45	20	22	09	65	70	75
1	Off-Network																
2	Rural Restricted Access																
3	Rural Unrestricted Access																
4	Urban Restricted Access	0.140896	0.140896 0.077181 0.045	418	0.033776	0.02628	0.02628 0.022165 (0.019512	0.019512 0.017186	0.015584	0.014339	0.013024	0.011845	0.015584 0.014339 0.013024 0.011845 0.011136 0.011284 0.011944	0.011284		0.013348
2	Urban Unrestricted Access	0.132762	0.132762 0.07339 0.04	4007	0.034087	0.028693 0.024601		0.020851	0.017789	0.015582	0.01393	0.012657	0.011812	0.01393 0.012657 0.011812 0.011434 0.011419 0.0	0.011419		0.013125

```
EPA MOVES RunSpec File Name:
    C:\Users\jkellogg\Downloads\Air\MOVES\MOVES Inputs\2015
Monroe Co ERates v05
Description:
Monroe County Emission Rates for 2015
Domain/Scale: County
Calculation Type: Emission Rates
    MOVESScenarioID: Monroe County 2015 Emission Rates
Time Spans:
   Aggregate By: Hour
   Years:
        2015
   Months:
        January
        April
        July
        October
    Days:
        Weekdays
    Hours:
        Begin Hour: 00:00 - 00:59
        End Hour: 23:00 - 23:59
Geographic Bounds:
   LINK geography
    Selection: NEW YORK - Monroe County
On Road Vehicle Equipment:
    Compressed Natural Gas (CNG) - Transit Bus
    Diesel Fuel - Combination Long-haul Truck
    Diesel Fuel - Combination Short-haul Truck
    Diesel Fuel - Intercity Bus
   Diesel Fuel - Light Commercial Truck
   Diesel Fuel - Motor Home
```

Diesel Fuel - Passenger Car

Diesel Fuel - Passenger Truck

Diesel Fuel - Refuse Truck

Diesel Fuel - School Bus

Diesel Fuel - Single Unit Long-haul Truck

Diesel Fuel - Single Unit Short-haul Truck

Diesel Fuel - Transit Bus

Gasoline - Combination Short-haul Truck

Gasoline - Light Commercial Truck

Gasoline - Motor Home

Gasoline - Motorcycle

Gasoline - Passenger Car

Gasoline - Passenger Truck

Gasoline - Refuse Truck

Gasoline - School Bus

Gasoline - Single Unit Long-haul Truck

Gasoline - Single Unit Short-haul Truck

Gasoline - Transit Bus

Road Types:

Off-Network

Rural Restricted Access

Rural Unrestricted Access

Urban Restricted Access

Urban Unrestricted Access

Pollutants And Processes:

Running Exhaust Carbon Monoxide (CO)

Start Exhaust Carbon Monoxide (CO)

Crankcase Running Exhaust Carbon Monoxide (CO)

Crankcase Start Exhaust Carbon Monoxide (CO)

Crankcase Extended Idle Exhaust Carbon Monoxide (CO)

Extended Idle Exhaust Carbon Monoxide (CO)

Running Exhaust Non-Methane Hydrocarbons

Start Exhaust Non-Methane Hydrocarbons

Evap Permeation Non-Methane Hydrocarbons

Evap Fuel Vapor Venting Non-Methane Hydrocarbons

Evap Fuel Leaks Non-Methane Hydrocarbons

Crankcase Running Exhaust Non-Methane Hydrocarbons Crankcase Start Exhaust Non-Methane Hydrocarbons Crankcase Extended Idle Exhaust Non-Methane Hydrocarbons Refueling Displacement Vapor Loss Non-Methane Hydrocarbons Refueling Spillage Loss Non-Methane Hydrocarbons Extended Idle Exhaust Non-Methane Hydrocarbons Running Exhaust Oxides of Nitrogen (NOx) Start Exhaust Oxides of Nitrogen (NOx) Crankcase Running Exhaust Oxides of Nitrogen (NOx) Crankcase Start Exhaust Oxides of Nitrogen (NOx) Crankcase Extended Idle Exhaust Oxides of Nitrogen (NOx) Extended Idle Exhaust Oxides of Nitrogen (NOx) Running Exhaust Primary Exhaust PM10 - Total Start Exhaust Primary Exhaust PM10 - Total Crankcase Running Exhaust Primary Exhaust PM10 - Total Crankcase Start Exhaust Primary Exhaust PM10 - Total Crankcase Extended Idle Exhaust Primary Exhaust PM10 - Total Extended Idle Exhaust Primary Exhaust PM10 - Total Running Exhaust Primary Exhaust PM2.5 - Total Start Exhaust Primary Exhaust PM2.5 - Total Crankcase Running Exhaust Primary Exhaust PM2.5 - Total Crankcase Start Exhaust Primary Exhaust PM2.5 - Total Crankcase Extended Idle Exhaust Primary Exhaust PM2.5 - Total Extended Idle Exhaust Primary Exhaust PM2.5 - Total Brakewear Primary PM10 - Brakewear Particulate Running Exhaust Primary PM10 - Elemental Carbon Start Exhaust Primary PM10 - Elemental Carbon Crankcase Running Exhaust Primary PM10 - Elemental Carbon Crankcase Start Exhaust Primary PM10 - Elemental Carbon Crankcase Extended Idle Exhaust Primary PM10 - Elemental Carbon

Extended Idle Exhaust Primary PM10 - Elemental Carbon
Running Exhaust Primary PM10 - Organic Carbon
Start Exhaust Primary PM10 - Organic Carbon
Crankcase Running Exhaust Primary PM10 - Organic Carbon
Crankcase Start Exhaust Primary PM10 - Organic Carbon
Crankcase Extended Idle Exhaust Primary PM10 - Organic Carbon
Extended Idle Exhaust Primary PM10 - Organic Carbon

Running Exhaust Primary PM10 - Sulfate Particulate
Start Exhaust Primary PM10 - Sulfate Particulate
Crankcase Running Exhaust Primary PM10 - Sulfate Particulate
Crankcase Start Exhaust Primary PM10 - Sulfate Particulate
Crankcase Extended Idle Exhaust Primary PM10 - Sulfate
Particulate

Extended Idle Exhaust Primary PM10 - Sulfate Particulate
Tirewear Primary PM10 - Tirewear Particulate
Brakewear Primary PM2.5 - Brakewear Particulate
Running Exhaust Primary PM2.5 - Elemental Carbon
Start Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Running Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Start Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Extended Idle Exhaust Primary PM2.5 - Elemental
Carbon

Extended Idle Exhaust Primary PM2.5 - Elemental Carbon
Running Exhaust Primary PM2.5 - Organic Carbon
Start Exhaust Primary PM2.5 - Organic Carbon
Crankcase Running Exhaust Primary PM2.5 - Organic Carbon
Crankcase Start Exhaust Primary PM2.5 - Organic Carbon
Crankcase Extended Idle Exhaust Primary PM2.5 - Organic
Carbon

Extended Idle Exhaust Primary PM2.5 - Organic Carbon
Running Exhaust Primary PM2.5 - Sulfate Particulate
Start Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Running Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Start Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Extended Idle Exhaust Primary PM2.5 - Sulfate
Particulate

Extended Idle Exhaust Primary PM2.5 - Sulfate Particulate
Tirewear Primary PM2.5 - Tirewear Particulate
Running Exhaust Total Energy Consumption
Start Exhaust Total Energy Consumption
Extended Idle Exhaust Total Energy Consumption
Running Exhaust Total Gaseous Hydrocarbons
Start Exhaust Total Gaseous Hydrocarbons
Evap Permeation Total Gaseous Hydrocarbons
Evap Fuel Vapor Venting Total Gaseous Hydrocarbons

Evap Fuel Leaks Total Gaseous Hydrocarbons Crankcase Running Exhaust Total Gaseous Hydrocarbons Crankcase Start Exhaust Total Gaseous Hydrocarbons Crankcase Extended Idle Exhaust Total Gaseous Hydrocarbons Refueling Displacement Vapor Loss Total Gaseous Hydrocarbons Refueling Spillage Loss Total Gaseous Hydrocarbons Extended Idle Exhaust Total Gaseous Hydrocarbons Running Exhaust Volatile Organic Compounds Start Exhaust Volatile Organic Compounds Evap Permeation Volatile Organic Compounds Evap Fuel Vapor Venting Volatile Organic Compounds Evap Fuel Leaks Volatile Organic Compounds Crankcase Running Exhaust Volatile Organic Compounds Crankcase Start Exhaust Volatile Organic Compounds Crankcase Extended Idle Exhaust Volatile Organic Compounds Refueling Displacement Vapor Loss Volatile Organic Compounds Refueling Spillage Loss Volatile Organic Compounds Extended Idle Exhaust Volatile Organic Compounds

Strategies:

Strategies:

Rate of Progress:

Rate of Progress calculations are disabled

Manage Input Data Sets:

General Output:

Output Database Server Name: localhost

Output Database Name: 2015Monroecoratesv05

Units:

Mass Units: Grams

Energy Units: Million BTU

Distance Units: Miles

Activity Outputs:

Distance Traveled

Source Hours

Population

```
Output Emissions Breakdown:
Emission Process
On Road/Off Road
Road Type
Source Use Type
Output Time Step
Hour
Geographic Output Detail
LINK
```

Advanced Performance Features:

Do Not Execute:

Save Data From:

Do Not Save Generator Data

Saved Data Database Server Name: [using default]

Saved Data Database Name: [using default]

Custom Default Database Server Name: [using default]

Custom Default Database Name: [using default]

Perform Final Aggregation (if necessary)

Remove data from MOVESOutput after creating rates Remove data from MOVESActivityOutput after creating rates

```
EPA MOVES RunSpec File Name:
    C:\Users\jkellogg\Downloads\Air\MOVES\MOVES Inputs\2025
Monroe Co ERates v03
Description:
Monroe County Emission Rates for 2025
Domain/Scale: County
Calculation Type: Emission Rates
    MOVESScenarioID: 2025_MonroeCoEmissionRates
Time Spans:
   Aggregate By: Hour
   Years:
        2025
   Months:
        January
        April
        July
        October
    Days:
        Weekdays
    Hours:
        Begin Hour: 00:00 - 00:59
        End Hour: 23:00 - 23:59
Geographic Bounds:
   LINK geography
    Selection: NEW YORK - Monroe County
On Road Vehicle Equipment:
    Compressed Natural Gas (CNG) - Transit Bus
    Diesel Fuel - Combination Long-haul Truck
    Diesel Fuel - Combination Short-haul Truck
    Diesel Fuel - Intercity Bus
   Diesel Fuel - Light Commercial Truck
```

Diesel Fuel - Motor Home

Diesel Fuel - Passenger Car

Diesel Fuel - Passenger Truck

Diesel Fuel - Refuse Truck

Diesel Fuel - School Bus

Diesel Fuel - Single Unit Long-haul Truck

Diesel Fuel - Single Unit Short-haul Truck

Diesel Fuel - Transit Bus

Gasoline - Combination Short-haul Truck

Gasoline - Light Commercial Truck

Gasoline - Motor Home

Gasoline - Motorcycle

Gasoline - Passenger Car

Gasoline - Passenger Truck

Gasoline - Refuse Truck

Gasoline - School Bus

Gasoline - Single Unit Long-haul Truck

Gasoline - Single Unit Short-haul Truck

Gasoline - Transit Bus

Road Types:

Off-Network

Rural Restricted Access

Rural Unrestricted Access

Urban Restricted Access

Urban Unrestricted Access

Pollutants And Processes:

Running Exhaust Carbon Monoxide (CO)

Start Exhaust Carbon Monoxide (CO)

Crankcase Running Exhaust Carbon Monoxide (CO)

Crankcase Start Exhaust Carbon Monoxide (CO)

Crankcase Extended Idle Exhaust Carbon Monoxide (CO)

Extended Idle Exhaust Carbon Monoxide (CO)

Running Exhaust Non-Methane Hydrocarbons

Start Exhaust Non-Methane Hydrocarbons

Evap Permeation Non-Methane Hydrocarbons

Evap Fuel Vapor Venting Non-Methane Hydrocarbons

Evap Fuel Leaks Non-Methane Hydrocarbons

Crankcase Running Exhaust Non-Methane Hydrocarbons Crankcase Start Exhaust Non-Methane Hydrocarbons Crankcase Extended Idle Exhaust Non-Methane Hydrocarbons Refueling Displacement Vapor Loss Non-Methane Hydrocarbons Refueling Spillage Loss Non-Methane Hydrocarbons Extended Idle Exhaust Non-Methane Hydrocarbons Running Exhaust Oxides of Nitrogen (NOx) Start Exhaust Oxides of Nitrogen (NOx) Crankcase Running Exhaust Oxides of Nitrogen (NOx) Crankcase Start Exhaust Oxides of Nitrogen (NOx) Crankcase Extended Idle Exhaust Oxides of Nitrogen (NOx) Extended Idle Exhaust Oxides of Nitrogen (NOx) Running Exhaust Primary Exhaust PM10 - Total Start Exhaust Primary Exhaust PM10 - Total Crankcase Running Exhaust Primary Exhaust PM10 - Total Crankcase Start Exhaust Primary Exhaust PM10 - Total Crankcase Extended Idle Exhaust Primary Exhaust PM10 - Total Extended Idle Exhaust Primary Exhaust PM10 - Total Running Exhaust Primary Exhaust PM2.5 - Total Start Exhaust Primary Exhaust PM2.5 - Total Crankcase Running Exhaust Primary Exhaust PM2.5 - Total Crankcase Start Exhaust Primary Exhaust PM2.5 - Total Crankcase Extended Idle Exhaust Primary Exhaust PM2.5 - Total Extended Idle Exhaust Primary Exhaust PM2.5 - Total Brakewear Primary PM10 - Brakewear Particulate Running Exhaust Primary PM10 - Elemental Carbon Start Exhaust Primary PM10 - Elemental Carbon Crankcase Running Exhaust Primary PM10 - Elemental Carbon Crankcase Start Exhaust Primary PM10 - Elemental Carbon Crankcase Extended Idle Exhaust Primary PM10 - Elemental Carbon

Extended Idle Exhaust Primary PM10 - Elemental Carbon
Running Exhaust Primary PM10 - Organic Carbon
Start Exhaust Primary PM10 - Organic Carbon
Crankcase Running Exhaust Primary PM10 - Organic Carbon
Crankcase Start Exhaust Primary PM10 - Organic Carbon
Crankcase Extended Idle Exhaust Primary PM10 - Organic Carbon
Extended Idle Exhaust Primary PM10 - Organic Carbon

Running Exhaust Primary PM10 - Sulfate Particulate
Start Exhaust Primary PM10 - Sulfate Particulate
Crankcase Running Exhaust Primary PM10 - Sulfate Particulate
Crankcase Start Exhaust Primary PM10 - Sulfate Particulate
Crankcase Extended Idle Exhaust Primary PM10 - Sulfate
Particulate

Extended Idle Exhaust Primary PM10 - Sulfate Particulate
Tirewear Primary PM10 - Tirewear Particulate
Brakewear Primary PM2.5 - Brakewear Particulate
Running Exhaust Primary PM2.5 - Elemental Carbon
Start Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Running Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Start Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Extended Idle Exhaust Primary PM2.5 - Elemental
Carbon

Extended Idle Exhaust Primary PM2.5 - Elemental Carbon
Running Exhaust Primary PM2.5 - Organic Carbon
Start Exhaust Primary PM2.5 - Organic Carbon
Crankcase Running Exhaust Primary PM2.5 - Organic Carbon
Crankcase Start Exhaust Primary PM2.5 - Organic Carbon
Crankcase Extended Idle Exhaust Primary PM2.5 - Organic
Carbon

Extended Idle Exhaust Primary PM2.5 - Organic Carbon
Running Exhaust Primary PM2.5 - Sulfate Particulate
Start Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Running Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Start Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Extended Idle Exhaust Primary PM2.5 - Sulfate
Particulate

Extended Idle Exhaust Primary PM2.5 - Sulfate Particulate
Tirewear Primary PM2.5 - Tirewear Particulate
Running Exhaust Total Energy Consumption
Start Exhaust Total Energy Consumption
Extended Idle Exhaust Total Energy Consumption
Running Exhaust Total Gaseous Hydrocarbons
Start Exhaust Total Gaseous Hydrocarbons
Evap Permeation Total Gaseous Hydrocarbons
Evap Fuel Vapor Venting Total Gaseous Hydrocarbons

Evap Fuel Leaks Total Gaseous Hydrocarbons Crankcase Running Exhaust Total Gaseous Hydrocarbons Crankcase Start Exhaust Total Gaseous Hydrocarbons Crankcase Extended Idle Exhaust Total Gaseous Hydrocarbons Refueling Displacement Vapor Loss Total Gaseous Hydrocarbons Refueling Spillage Loss Total Gaseous Hydrocarbons Extended Idle Exhaust Total Gaseous Hydrocarbons Running Exhaust Volatile Organic Compounds Start Exhaust Volatile Organic Compounds Evap Permeation Volatile Organic Compounds Evap Fuel Vapor Venting Volatile Organic Compounds Evap Fuel Leaks Volatile Organic Compounds Crankcase Running Exhaust Volatile Organic Compounds Crankcase Start Exhaust Volatile Organic Compounds Crankcase Extended Idle Exhaust Volatile Organic Compounds Refueling Displacement Vapor Loss Volatile Organic Compounds Refueling Spillage Loss Volatile Organic Compounds Extended Idle Exhaust Volatile Organic Compounds

Strategies:

Strategies:

Rate of Progress:

Rate of Progress calculations are disabled

Manage Input Data Sets:

General Output:

Output Database Server Name: localhost

Output Database Name: 2025Monroecoratesv05

Units:

Mass Units: Grams

Energy Units: Million BTU

Distance Units: Miles

Activity Outputs:

Distance Traveled

Source Hours

Population

```
Output Emissions Breakdown:
Emission Process
On Road/Off Road
Road Type
Source Use Type
Output Time Step
Hour
Geographic Output Detail
LINK
```

Advanced Performance Features:

Do Not Execute:

Save Data From:

Do Not Save Generator Data

Saved Data Database Server Name: [using default]

Saved Data Database Name: [using default]

Custom Default Database Server Name: [using default]

Custom Default Database Name: [using default]

Perform Final Aggregation (if necessary)

Remove data from MOVESOutput after creating rates Remove data from MOVESActivityOutput after creating rates

```
EPA MOVES RunSpec File Name:
    C:\Users\jkellogg\Downloads\Air\MOVES\MOVES Inputs\2035
Monroe Co ERates v05
Description:
MonroeCoER2035
Domain/Scale: County
Calculation Type: Emission Rates
    MOVESScenarioID: 2035_MonroeCoEmissionRates
Time Spans:
   Aggregate By: Hour
   Years:
        2035
   Months:
        January
        April
        July
        October
    Days:
        Weekdays
    Hours:
        Begin Hour: 00:00 - 00:59
        End Hour: 23:00 - 23:59
Geographic Bounds:
   LINK geography
    Selection: NEW YORK - Monroe County
On Road Vehicle Equipment:
    Compressed Natural Gas (CNG) - Transit Bus
    Diesel Fuel - Combination Long-haul Truck
    Diesel Fuel - Combination Short-haul Truck
    Diesel Fuel - Intercity Bus
   Diesel Fuel - Light Commercial Truck
```

Diesel Fuel - Motor Home

Diesel Fuel - Passenger Car

Diesel Fuel - Passenger Truck

Diesel Fuel - Refuse Truck

Diesel Fuel - School Bus

Diesel Fuel - Single Unit Long-haul Truck

Diesel Fuel - Single Unit Short-haul Truck

Diesel Fuel - Transit Bus

Gasoline - Combination Short-haul Truck

Gasoline - Light Commercial Truck

Gasoline - Motor Home

Gasoline - Motorcycle

Gasoline - Passenger Car

Gasoline - Passenger Truck

Gasoline - Refuse Truck

Gasoline - School Bus

Gasoline - Single Unit Long-haul Truck

Gasoline - Single Unit Short-haul Truck

Gasoline - Transit Bus

Road Types:

Off-Network

Rural Restricted Access

Rural Unrestricted Access

Urban Restricted Access

Urban Unrestricted Access

Pollutants And Processes:

Running Exhaust Carbon Monoxide (CO)

Start Exhaust Carbon Monoxide (CO)

Crankcase Running Exhaust Carbon Monoxide (CO)

Crankcase Start Exhaust Carbon Monoxide (CO)

Crankcase Extended Idle Exhaust Carbon Monoxide (CO)

Extended Idle Exhaust Carbon Monoxide (CO)

Running Exhaust Non-Methane Hydrocarbons

Start Exhaust Non-Methane Hydrocarbons

Evap Permeation Non-Methane Hydrocarbons

Evap Fuel Vapor Venting Non-Methane Hydrocarbons

Evap Fuel Leaks Non-Methane Hydrocarbons

Crankcase Running Exhaust Non-Methane Hydrocarbons Crankcase Start Exhaust Non-Methane Hydrocarbons Crankcase Extended Idle Exhaust Non-Methane Hydrocarbons Refueling Displacement Vapor Loss Non-Methane Hydrocarbons Refueling Spillage Loss Non-Methane Hydrocarbons Extended Idle Exhaust Non-Methane Hydrocarbons Running Exhaust Oxides of Nitrogen (NOx) Start Exhaust Oxides of Nitrogen (NOx) Crankcase Running Exhaust Oxides of Nitrogen (NOx) Crankcase Start Exhaust Oxides of Nitrogen (NOx) Crankcase Extended Idle Exhaust Oxides of Nitrogen (NOx) Extended Idle Exhaust Oxides of Nitrogen (NOx) Running Exhaust Primary Exhaust PM10 - Total Start Exhaust Primary Exhaust PM10 - Total Crankcase Running Exhaust Primary Exhaust PM10 - Total Crankcase Start Exhaust Primary Exhaust PM10 - Total Crankcase Extended Idle Exhaust Primary Exhaust PM10 - Total Extended Idle Exhaust Primary Exhaust PM10 - Total Running Exhaust Primary Exhaust PM2.5 - Total Start Exhaust Primary Exhaust PM2.5 - Total Crankcase Running Exhaust Primary Exhaust PM2.5 - Total Crankcase Start Exhaust Primary Exhaust PM2.5 - Total Crankcase Extended Idle Exhaust Primary Exhaust PM2.5 - Total Extended Idle Exhaust Primary Exhaust PM2.5 - Total Brakewear Primary PM10 - Brakewear Particulate Running Exhaust Primary PM10 - Elemental Carbon Start Exhaust Primary PM10 - Elemental Carbon Crankcase Running Exhaust Primary PM10 - Elemental Carbon Crankcase Start Exhaust Primary PM10 - Elemental Carbon Crankcase Extended Idle Exhaust Primary PM10 - Elemental Carbon

Extended Idle Exhaust Primary PM10 - Elemental Carbon
Running Exhaust Primary PM10 - Organic Carbon
Start Exhaust Primary PM10 - Organic Carbon
Crankcase Running Exhaust Primary PM10 - Organic Carbon
Crankcase Start Exhaust Primary PM10 - Organic Carbon
Crankcase Extended Idle Exhaust Primary PM10 - Organic Carbon
Extended Idle Exhaust Primary PM10 - Organic Carbon

Running Exhaust Primary PM10 - Sulfate Particulate
Start Exhaust Primary PM10 - Sulfate Particulate
Crankcase Running Exhaust Primary PM10 - Sulfate Particulate
Crankcase Start Exhaust Primary PM10 - Sulfate Particulate
Crankcase Extended Idle Exhaust Primary PM10 - Sulfate
Particulate

Extended Idle Exhaust Primary PM10 - Sulfate Particulate
Tirewear Primary PM10 - Tirewear Particulate
Brakewear Primary PM2.5 - Brakewear Particulate
Running Exhaust Primary PM2.5 - Elemental Carbon
Start Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Running Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Start Exhaust Primary PM2.5 - Elemental Carbon
Crankcase Extended Idle Exhaust Primary PM2.5 - Elemental
Carbon

Extended Idle Exhaust Primary PM2.5 - Elemental Carbon
Running Exhaust Primary PM2.5 - Organic Carbon
Start Exhaust Primary PM2.5 - Organic Carbon
Crankcase Running Exhaust Primary PM2.5 - Organic Carbon
Crankcase Start Exhaust Primary PM2.5 - Organic Carbon
Crankcase Extended Idle Exhaust Primary PM2.5 - Organic
Carbon

Extended Idle Exhaust Primary PM2.5 - Organic Carbon
Running Exhaust Primary PM2.5 - Sulfate Particulate
Start Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Running Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Start Exhaust Primary PM2.5 - Sulfate Particulate
Crankcase Extended Idle Exhaust Primary PM2.5 - Sulfate
Particulate

Extended Idle Exhaust Primary PM2.5 - Sulfate Particulate
Tirewear Primary PM2.5 - Tirewear Particulate
Running Exhaust Total Energy Consumption
Start Exhaust Total Energy Consumption
Extended Idle Exhaust Total Energy Consumption
Running Exhaust Total Gaseous Hydrocarbons
Start Exhaust Total Gaseous Hydrocarbons
Evap Permeation Total Gaseous Hydrocarbons
Evap Fuel Vapor Venting Total Gaseous Hydrocarbons

Evap Fuel Leaks Total Gaseous Hydrocarbons Crankcase Running Exhaust Total Gaseous Hydrocarbons Crankcase Start Exhaust Total Gaseous Hydrocarbons Crankcase Extended Idle Exhaust Total Gaseous Hydrocarbons Refueling Displacement Vapor Loss Total Gaseous Hydrocarbons Refueling Spillage Loss Total Gaseous Hydrocarbons Extended Idle Exhaust Total Gaseous Hydrocarbons Running Exhaust Volatile Organic Compounds Start Exhaust Volatile Organic Compounds Evap Permeation Volatile Organic Compounds Evap Fuel Vapor Venting Volatile Organic Compounds Evap Fuel Leaks Volatile Organic Compounds Crankcase Running Exhaust Volatile Organic Compounds Crankcase Start Exhaust Volatile Organic Compounds Crankcase Extended Idle Exhaust Volatile Organic Compounds Refueling Displacement Vapor Loss Volatile Organic Compounds Refueling Spillage Loss Volatile Organic Compounds Extended Idle Exhaust Volatile Organic Compounds

Strategies:

Strategies:

Rate of Progress:

Rate of Progress calculations are disabled

Manage Input Data Sets:

General Output:

Output Database Server Name: localhost

Output Database Name: 2035monroecoratesv05

Units:

Mass Units: Grams

Energy Units: Million BTU

Distance Units: Miles

Activity Outputs:

Distance Traveled

Source Hours

Population

```
Output Emissions Breakdown:
Emission Process
On Road/Off Road
Road Type
Source Use Type
Output Time Step
Hour
Geographic Output Detail
LINK
```

Advanced Performance Features:

Do Not Execute:

Save Data From:

Do Not Save Generator Data

Saved Data Database Server Name: [using default]

Saved Data Database Name: [using default]

Custom Default Database Server Name: [using default]

Custom Default Database Name: [using default]

Perform Final Aggregation (if necessary)

Remove data from MOVESOutput after creating rates Remove data from MOVESActivityOutput after creating rates



% Project Growth RATE = ETC Year =

Link Input Data

2015 NA

g/hr g/hr g/hr 236 1,019 6,460 93 52 TOTAL NO-BUILD ETC VOC EMISSIONS BURDEN =
TOTAL NO-BUILD ETC NOX EMISSIONS BURDEN =
TOTAL NO-BUILD ETC CO EMISSIONS BURDEN =
TOTAL NO-BUILD ETC PM-10 EMISSIONS BURDEN =
TOTAL NO-BUILD ETC PM-2.5 EMISSIONS BURDEN =

L	Link Description	MOVES	Speed	×1	٨1	X2	Y2	PM Peak	Lenath	Lenath	VMT	Noc	2	XON	×C		00	PM	PM-10	PM	.2.5
			(5 mph incr)	(ft)	(tt)	(tt)	(ft)	(veh/hr)	(Ħ)	(mi)	(veh*mi/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	/mi) EBs (g/hr)
	C IL EB-1	4	П	н	${} \rightarrow$	_	1149625	230	98.76	0.019	4.26	0.10117	0.43	0.52688	2.25	3.81218	16.25	0.03997	0.17	0.02772	0.12
	C IL EB-2	4 -		_	1149625 1	\rightarrow	1149655	230	195.32	0.037	8.51	0.10117	0.86	0.52688	4.48	3.81218	32.43	0.03997	0.34	0.02772	0.24
	CILEB-3	4 <		-	1149655 1	1410128 1	1149703	230	477.42	0.090	20.80	0.10117	2.10	0.52688	10.96	3.81218	79.28	0.03997	0.83	0.02772	0.58
1	C IL EB-4	4 <	Ť	1410128	-	_	11/97/2	230	100 33	0.033	9.49	0.1011/	0.76	0.52666	5.94 7.57	3.01210	33 10	0.03997	0.30	0.02772	0.21
	C I EB-5	1 4	Ť	+	7 2	-	1149798	230	172.03	0.030	0.00	0.10117	0.00	0.32666	3 95	3.01210	28.57	0.03997	0.33	0.02772	0.24
	C IL EB-7	4		+	-	1	149883	230	159.53	0.030	6.95	0.10117	0.70	0.52688	3.66	3.81218	26.49	0.03997	0.28	0.02772	0.19
	C IL EB-8	4		╌	-	-	1149991	230	155.59	0.029	6.78	0.10117	69.0	0.52688	3.57	3.81218	25.84	0.03997	0.27	0.02772	0.19
	C IL EB-9	4	П	Н	Н	Н	150059	230	85.00	0.016	3.70	0.10117	0.37	0.52688	1.95	3.81218	14.12	0.03997	0.15	0.02772	0.10
	C IL EB-10	4		-	-	1411056 1	1150245	203	210.24	0.040	8.08	0.10117	0.82	0.52688	4.26	3.81218	30.81	0.03997	0.32	0.02772	0.22
	C IL EB-11	4		\rightarrow	\rightarrow	Δ1	1150430	203	200.00	0.038	7.69	0.10117	0.78	0.52688	4.05	3.81218	29.31	0.03997	0.31	0.02772	0.21
	C IL EB-12	4		-	-	-	1150560	203	138.93	0.026	5.34	0.10117	0.54	0.52688	2.81	3.81218	20.36	0.03997	0.21	0.02772	0.15
	C IL EB-13	4		÷	-	-	1151135	430	619.67	0.117	50.47	0.10117	5.11	0.52688	26.59	3.81218	192.38	0.03997	2.02	0.02772	1.40
	C IL EB-14	4		-	-	-	1151320	430	198.88	0.038	16.20	0.10117	1.64	0.52688	8.53	3.81218	61.75	0.03997	0.65	0.02772	0.45
	C IL EB-15	4			-	\rightarrow	1151745	224	452.73	0.086	19.21	0.10117	1.94	0.52688	10.12	3.81218	73.22	0.03997	0.77	0.02772	0.53
	C IL EB-16	4		-	2	-	1152227	224	506.93	960.0	21.51	0.10117	2.18	0.52688	11.33	3.81218	81.98	0.03997	0.86	0.02772	0.60
	C IL EB-17	4		-	-	\rightarrow	1152365	224	140.62	0.027	5.97	0.10117	0.60	0.52688	3.14	3.81218	22.74	0.03997	0.24	0.02772	0.17
	C IL EB-18	4 4	50	1411825 1	1152365 1	1411834 1	1152489	224	124.33	0.024	5.27	0.10117	0.53	0.52688	3.67	3.81218	20.11	0.03997	0.21	0.02772	0.15
	C.II FB-20	4	Ť	+	-	-	152836	224	187.98	0.036	7.98	0.10117	0.81	0.52688	4.20	381218	30.40	0.03997	0.32	0.02772	0.22
	C IL EB-21	4	T	+	1152836 1	+	1153037	224	222.75	0.042	9.45	0.10117	96.0	0.52688	4.98	3.81218	36.02	0.03997	0.38	0.02772	0.26
	C IL EB-22	4		-	-	1411617 1	1153138	224	121.20	0.023	5.14	0.10117	0.52	0.52688	2.71	3.81218	19.60	0.03997	0.21	0.02772	0.14
	C IL EB-23	4		-	1153138 1	1411545 1	1153222	224	110.63	0.021	4.69	0.10117	0.47	0.52688	2.47	3.81218	17.89	0.03997	0.19	0.02772	0.13
	C IL WB-1	4		`	Н	1411571 1	1153102	375	103.95	0.020	7.38	0.10117	0.75	0.52688	3.89	3.81218	28.14	0.03997	0:30	0.02772	0.20
	C IL WB-2	4		\dashv	${}^{-}$	1411639 1	1153016	375	109.64	0.021	7.79	0.10117	0.79	0.52688	4.10	3.81218	29.68	0.03997	0.31	0.02772	0.22
	C IL WB-3	4 .		-	-	-	1152830	375	209.77	0.040	14.90	0.10117	1.51	0.52688	7.85	3.81218	56.80	0.03997	0.60	0.02772	0.41
	C IL WB-4	4 <		1411/36 1	1152830 1	1411/84 1	1152652	3/5	184.36	0.035	13.09	0.10117	1.32	0.52688	6.90	3.81218	49.92	0.03997	0.52	0.02772	0.36
1	C II WB-5	t <	Ť	+	1152/80 1	+	1152371	727	118 //2	0.03	50.3	0.10117	0.70	0.52688	2.65	3 81218	10.15	0.03997	0.20	0.02772	0.0
	C IL WB-7	1 4		+	+	+	1152230	224	145.04	0.027	6.15	0.10117	0.62	0.52688	3.24	3.81218	23.46	0.03997	0.25	0.02772	0.17
	C IL WB-8	4		÷	_	+	1151755	224	498.42	0.094	21.15	0.10117	2.14	0.52688	11.14	3.81218	80.61	0.03997	0.85	0.02772	0.59
	C IL WB-9	4		÷	1151755 1	1411374 1	1151161	224	635.90	0.120	26.98	0.10117	2.73	0.52688	14.21	3.81218	102.84	0.03997	1.08	0.02772	0.75
	C IL WB-10	4	П	${}^{\scriptscriptstyle{f H}}$	Н	${}^{\scriptscriptstylelack}$	1150550	224	656.45	0.124	27.85	0.10117	2.82	0.52688	14.67	3.81218	106.17	0.03997	1.11	0.02772	0.77
	C IL WB-11	4 -		1411134 1	1150550 1	1411020 1	1150257	224	314.40	090.0	13.34	0.10117	1.35	0.52688	7.03	3.81218	50.85	0.03997	0.53	0.02772	0.37
	C IL WB-12	4 4		+	-	-	1150007	179	88.87 88.84	0.030	301	0.10117	0.69	0.52566	1.59	3.01210	11 48	0.03997	0.27	0.02772	0.0
	C IL WB-14	4		+	. 2	4	1149910	476	135.77	0.026	12.24	0.10117	1.24	0.52688	6.45	3.81218	46.66	0.03997	0.49	0.02772	0.34
	C IL WB-15	4		_	С	1410702 1	1149857	476	97.64	0.018	8.80	0.10117	0.89	0.52688	4.64	3.81218	33.56	0.03997	0.35	0.02772	0.24
	C IL WB-16	4		\subseteq	149857 1	1410604 1	149806	476	110.48	0.021	96.6	0.10117	1.01	0.52688	5.25	3.81218	37.97	0.03997	0.40	0.02772	0.28
	C IL WB-17	4		_	-	-	1149773	476	118.68	0.022	10.70	0.10117	1.08	0.52688	5.64	3.81218	40.79	0.03997	0.43	0.02772	0.30
	C IL WB-18	4	1	\rightarrow	-	-	1149749	476	216.34	0.041	19.50	0.10117	1.97	0.52688	10.28	3.81218	74.35	0.03997	0.78	0.02772	0.54
	C IL WB-19	4 <	T	1410275 1	1149749 1	1410114 1	1149731	476	162.00	0.031	14.60	0.10117	1.48	0.52688	7.69	3.81218	55.68	0.03997	0.58	0.02772	0.40
	C.II WB-21	1 4		+	-	-	1149672	476	119.00	0.023	10.73	0.10117	1.09	0.52688	5.65	381218	40.90	0.03997	0.30	0.02772	08.0
	C IL WB-22	4	T	-	-	-	1149672	1902	0.00	0.000	0.00	0.10117	0.00	0.52688	0.00	3.81218	0.00	0.03997	0.00	0.02772	0.00
	A Union-1	2		-	1149275 1	1410794 1	1149464	365	200.86	0.038	13.89	0.16153	2.24	0.61976	8.61	3.55964	49.43	0.06870	0.95	0.03314	0.46
	A Union-2	2		1410794 1	149464 1	1410911	149769	365	326.67	0.062	22.58	0.14081	3.18	0.54775	12.37	3.35679	75.80	0.05668	1.28	0.02896	0.65
	A Union-3	2		\dashv	1149769 1	1410943 1	1149866	365	102.14	0.019	7.06	0.14081	0.99	0.54775	3.87	3.35679	23.70	0.05668	0.40	0.02896	0.20
	A Union-4	2			-	_	1149988	435	131.10	0.025	10.80	0.12241	1.32	0.50783	5.49	3.08424	33.31	0.04635	0.50	0.02477	0.27
	C Union-5	2	Ť	\neg	1149988 1		1150170	435	201.30	0.038	16.58	0.12241	2.03	0.50783	8.42	3.08424	51.15	0.04635	0.77	0.02477	0.41
	C Union-6	o u	Ť	14110//	1150170 1	1411114	1150254	435	91.79	710.0	7.50	0.12241	0.93	0.50783	3.84	3.08424	23.32	0.04635	0.35	0.02477	0.19
1	7151100	0			10000		130000	777	13.00	0.022	4.0.4	U.12241	0.00	0.00100	74.7	0.00424	0.0.0	0.040.0	0.20	U.UZ411	V. 12

Date: 11/15/2013 Time: 11:34 AM

Link	Link Description	MOVES	Speed X1	-	-	-	PM Peak	Length	Length	VMT	Noc	O	NOX	×	S	0	PM-10	10	PM-2.5	5
o O			(5 mph incr) (ft)	(tt)	П	(ft) (ft)	(veh/hr)	(#)	(mj	(veh*mi/hr)	<u>.</u>	EBs (g/hr)	EFs (g/mi)	щ	$\overline{}$	EBs (g/hr)		EBs (g/hr)	EFs (g/mi)	
23	C Union-8	2			\rightarrow	\rightarrow	226	245.69	0.047	10.52	0.12241	1.29	0.50783	5.34	3.08424	32.43	0.04635	0.49	0.02477	0.26
24	C Union-9	2		-	_	-	226	129.62	0.025	5.55	0.12241	0.68	0.50783	2.82	3.08424	17.11	0.04635	0.26	0.02477	0.14
22	C Union-10	Ω V	30 1411296	296 1150708 333 1150786	_	1411333 1150786	170	101 30	0.016	3.70	0.14081	0.52	0.54775	2.02	3.35679	12.40	0.05668	0.21	0.02896	0.11
22	A Union-12	2		1	-	1.0	420	360.03	0.068	28.64	0.12241	3.51	0.50783	14.54	3.08424	88.33	0.04635	1.33	0.02477	0.71
28	Q Union-13 2 East	5			-	Ľ	210	103.62	0.020	4.12	0.16153	0.67	0.61976	2.55	3.55964	14.67	0.06870	0.28	0.03314	0.14
29	A Union-14	2		_	\rightarrow	-	259	696.01	0.132	34.14	0.12241	4.18	0.50783	17.34	3.08424	105.30	0.04635	1.58	0.02477	0.85
09 19	C Union-15 C Union-16	2 2	30 1411798	798 1151958 898 1152195	-	1411898 1152195 1411977 1152406	317	257.23	0.049	15.44	0.14081	3.37	0.54775	8.46	3.35679	51.84	0.05668	0.88	0.02896	0.45
62	Q Union-17 2 University	2		١.	-		561	107.70	0.020	11.44	0.16153	1.85	0.61976	7.09	3.55964	40.73	0.06870	0.79	0.03314	0.38
63	A Union-18	2	П		-		300	239.18	0.045	13.59	0.14081	1.91	0.54775	7.44	3.35679	45.62	0.05668	0.77	0.02896	0.39
49	Q Union 2 Broad Lt	2		-	_	1411357 1150885	240	100.09	0.019	1.06	0.31766	0.34	1.03770	1.10	5.32956	5.66	0.13071	0.14	0.05713	0.06
60	Q Union Z East Rt	n u	15 1411513	+	-	1411550 1151310	210	75.66	0.020	71.7	0.23484	0.98	0.83212	3.47	9.02424	19.28	0.09742	0.61	0.04505	0.19
90 29	A Pitkin-1	ט ני	35 1411600	534 1152741	_	- ÷	140	72.47	0.014	1 92	0.12241	0.25	0.50783	0.98	3.08424	503	0.04635	0.03	0.02477	0.03
89	A Pitkin-3	2 12	T	-	_	-	140	98.23	0.019	26.1	0.10811	0.28	0.49048	1.28	2.86633	7.47	0.03889	0.10	0.02209	0.06
69	A Pitkin-4	2	40 1411659	+	-	-	140	91.05	0.017	2.41	0.10811	0.26	0.49048	1.18	2.86633	6.92	0.03889	60:0	0.02209	0.05
20	A Pitkin-5	2	П	Н	-		140	91.59	0.017	2.43	0.10811	0.26	0.49048	1.19	2.86633	96.9	0.03889	60.0	0.02209	0.05
11	C Pitkin-6	2	40 1411645	Ĥ	\dashv	`	140	273.88	0.052	7.26	0.10811	0.79	0.49048	3.56	2.86633	20.82	0.03889	0.28	0.02209	0.16
72	C Pitkin-7	2	40 1411584	584 1152097	-	1411544 1151894	126	206.90	0.039	4.94	0.10811	0.53	0.49048	2.42	2.86633	14.15	0.03889	0.19	0.02209	0.11
74	O-IRAII-O	יו כ	T	-	-	+	338	286.23	0.01	1832	0.12241	2.20	0.50783	9.30	3.08424	56.51	0.04635	0.10	0.02477	0.03
7.5	O Pitkin-10 2 Fast	ם עם		╀	-	- ·	338	107.52	0.020	6.88	0.16153	1.11	0.507.63	4 27	3.55964	24.50	0.04633	0.63	0.03314	0.43
9/	A Pitkin-11	2			-	+	263	304.32	0.058	15.16	0.12241	1.86	0.50783	7.70	3.08424	46.75	0.04635	0.70	0.02477	0.38
22	Q Pitkin-12 2 Broad	5	25 1411313	313 1151145	145 141127	1274 1151045	263	107.34	0.020	5.35	0.16153	0.86	0.61976	3.31	3.55964	19.03	0.06870	0.37	0.03314	0.18
78	A Pitkin-13	2		${}^{-}$	$\overline{}$	${}^{\scriptscriptstyle{+}}$	377	534.06	0.101	38.13	0.10811	4.12	0.49048	18.70	2.86633	109.30	0.03889	1.48	0.02209	0.84
62	A Pitkin-14	2		÷	-	` '	397	268.02	0.051	20.15	0.12241	2.47	0.50783	10.23	3.08424	62.16	0.04635	0.93	0.02477	0.50
8 8	A Pitkin-15	C 1		982 1150298	-	-	159	173.85	0.033	5.24	0.12241	0.64	0.50783	2.66	3.08424	16.15	0.04635	0.24	0.02477	0.13
8 8	C Pitkin-17	מ ע	35 1410914	_	_	1410729 1149918	159	17194	0.022	7.85	0.12241	0.96	0.50783	3.99	3.08424	24.21	0.04635	0.36	0.02477	0.09
2 83	C Pitkin-18	2	T	-	-	٠.	241	131.23	0.025	5.99	0.12241	0.73	0.50783	3.04	3.08424	18.47	0.04635	0.28	0.02477	0.15
84	C Pitkin-19	2		-	-	-	241	126.49	0.024	5.77	0.12241	0.71	0.50783	2.93	3.08424	17.81	0.04635	0.27	0.02477	0.14
82	C Pitkin-20	2	35 1410495		813 1410	0311 1149789	241	185.56	0.035	8.47	0.12241	1.04	0.50783	4.30	3.08424	26.12	0.04635	0.39	0.02477	0.21
98	Q Pitkin-21 W 2 Chestnut	2		\vdash	-	-	241	120.50	0.023	5.50	0.16153	0.89	0.61976	3.41	3.55964	19.58	0.06870	0.38	0.03314	0.18
87	A Pitkin-22	2		÷	_	·	241	41.11	0.008	1.88	0.12241	0.23	0.50783	0.95	3.08424	5.79	0.04635	0.09	0.02477	0.05
88 8	A Pitkin-23	C L	1	_	-	-	318	214.58	0.041	12.92	0.12241	1.58	0.50783	6.56	3.08424	39.86	0.04635	0.60	0.02477	0.32
S 6	A Pitkin-24 C Pitkin-25	Ω v	35 1409937	937 1149749	-	1409725 1149728 1409476 1149694	1426	213.04	0.040	57.54	0.12241	7.04	0.50783	34.47	3.08424	209.34	0.04635	3.15	0.02477	1.43
9	C Howell-1	2		+	_	+	165	311.52	0.059	9.74	0.12241	1.19	0.50783	4.94	3.08424	30.03	0.04635	0.45	0.02477	0.24
92	C Howell-2	2	İ	Н	-	7	165	288.36	0.055	9.01	0.12241	1.10	0.50783	4.58	3.08424	27.79	0.04635	0.42	0.02477	0.22
83	C Howell-3	2	30 1409962	962 114965	1 12	-	165	159.71	0.030	4.99	0.14081	0.70	0.54775	2.73	3.35679	16.75	0.05668	0.28	0.02896	0.14
55	A Howell-5	2 12	25 1410202	+-		1410308 1149672	26	106.00	0.020	1.53	0.16153	0.25	0.61976	0.95	3.55964	5.43	0.06870	0.10	0.03314	0.05
96	A Howell-6	2	35 1410308		7.	1410586 1149728	92	283.58	0.054	4.08	0.12241	0.50	0.50783	2.07	3.08424	12.59	0.04635	0.19	0.02477	0.10
26	C Howell-7	2		\rightarrow	\rightarrow	\rightarrow	20	245.98	0.047	3.26	0.14081	0.46	0.54775	1.79	3.35679	10.95	0.05668	0.18	0.02896	0.09
80 00	C Howell-8	2 س	15 1410805	805 1149840 855 1149874	-	1410855 11498/4	0 2	60.46	0.011	0.80	0.23484	0.19	0.83212	0.67	4.62689	3.71	0.09742	0.08	0.04505	0.04
100	C Clinton NB-2	2	T	+	-	-	1654	386.21	0.073	120.98	0.09744	11.79	0.48225	58.34	2.73385	330.75	0.03303	4.00	0.02009	2.43
101	Q Monroe N-6 2 Howell	2	25 1410413	413 11495	72	1410329 1149638	230	106.83	0.020	10.72	0.16153	1.73	0.61976	6.65	3.55964	38.17	0.06870	0.74	0.03314	0.36
102	A Monroe N-7	2		-	\rightarrow	${}^{-}$	601	109.20	0.021	12.43	0.12241	1.52	0.50783	6.31	3.08424	38.34	0.04635	0.58	0.02477	0.31
103	Q Monroe N 2 Chestnut	2		`\\	-	7	601	65.00	0.012	7.40	0.16153	1.20	0.61976	4.59	3.55964	26.34	0.06870	0.51	0.03314	0.25
104	A Chestnut N-1	Ω μ	35 1410190	150 1149743	-	1410150 1149775	392	22.13	0.010	3.80	0.12241	0.47	0.50783	7.93	3.08424	17.73	0.04635	0.78	0.02477	0.09
106	A Chestnut N-3	2		-	-	-	392	86.45	0.016	6.42	0.12241	0.79	0.50783	3.26	3.08424	19.80	0.04635	0.30	0.02477	0.16
107	A Chestnut N-4	2		056 1149907	_	0021 1150013	392	111.63	0.021	8.29	0.12241	1.01	0.50783	4.21	3.08424	25.56	0.04635	0.38	0.02477	0.21
108	C Chestnut S-1	2	Ì	\rightarrow			530	108.52	0.021	10.89	0.12241	1.33	0.50783	5.53	3.08424	33.60	0.04635	0.50	0.02477	0.27
100	Q Chestnut S-2 2 Pitkin	2	25 1410026	_	_	_	530	127.94	0.024	12.84	0.16153	2.07	0.61976	7.96	3.55964	45.72	0.06870	0.88	0.03314	0.43
111	O Chestnut S-4 2 Monroe	വ	T	125 1149754		1410188 1149705	650	79.81	0.015	9.83	0.16153	1.59	0.507050	3.87	3.55964	34.97	0.04650	79.0	0.03314	0.33
112	A Monroe S-1	2	35 1410188				671	278.06	0.053	35.34	0.12241	4.33	0.50783	17.95	3.08424	108.99	0.04635	1.64	0.02477	0.88
																				1

Link	Link Description M		LX X1	Σ 3	X2	72	PM Peak	Length	Length	VMT	200	2	XON	×C	ı≍⊦	C		10	-MA	PM-2.5
. (1	ce (5 m	-	-	-	-	(veh/hr)	(E)	(mi)	(ven-mi/nr)	EFS (g/mi)	EBS (g/nr)	EFS (g/m)	EBS (g/nr)	_	EBS (g/nr)	_	EBS (g/nr)	EFS (g/m)	EBS (g/nr)
113	Q Broad WB-1 Bridge	5 15	T	+	-	-	73	93.94	0.018	1.30	0.23484	0.31	0.83212	1.08	4.62689	6.01	0.09742	0.13	0.04505	0.06
114	A Broad WB-2	2 30	1	_		_	81	52.20	0.010	0.80	0.14081	0.11	0.54775	0.44	3.35679	2.69	0.05668	0.05	0.02896	0.02
115	A Broad WB-3		1411234	234 1151024	24 1411136	1151062	220	105.11	0.020	1.61	0.14081	0.23	0.54775	0.88	3.35679	5.41	0.05668	0.09	0.02896	0.02
110	C Broad EB-32 FIRM	-		_	-	-	230	36.02	0.018	14.4	0.19190	0.83	0.70490	3.11	4.15064	16.30	0.08023	0.35	0.03836	0.17
11/	A Broad EB-4	0 10	1411219	219 1150998	72 4444250	1150972	720	61.74	20.012	2.92	0.23484	0.69	0.83212	2.43	4.62689	13.53	0.09742	0.28	0.04505	0.13
119	G Broad 2 Pitkin Rt	2 2	T		-	-	138	99.92	0.019	2.61	0.31766	0.30	1 03770	2.71	5.32956	13 92	0.13071	0.34	0.05713	0.75
120	A East WB-2			-	-	-	404	50.45	0.010	3.86	0.19190	0.74	0.70490	2.72	4.15084	16.02	0.08023	0.31	0.03856	0.15
121	Q East WB-3 Bridge	5 20		+	+	+	394	107.52	0.020	8.02	0.19190	1.54	0.70490	5.66	4.15084	33.30	0.08023	0.64	0.03856	0.31
122	A East WB-4			÷	-	Ļ.	343	65.55	0.012	4.26	0.19190	0.82	0.70490	3.00	4.15084	17.68	0.08023	0.34	0.03856	0.16
123	A East EB-1			+	-	-	645	60.67	0.011	7.41	0.19190	1.42	0.70490	5.22	4.15084	30.76	0.08023	0.59	0.03856	0.29
124	Q East EB-2 Bridge		0 1411426	1151380	80 1411524	4 1151347	645	103.41	0.020	12.63	0.19190	2.42	0.70490	8.90	4.15084	52.43	0.08023	1.01	0.03856	0.49
125	A East EB-3			-	-	-	820	74.33	0.014	11.54	0.19190	2.22	0.70490	8.14	4.15084	47.92	0.08023	0.93	0.03856	0.45
126	A University NB-1			-	-	-	658	81.88	0.016	10.20	0.14081	1.44	0.54775	5.59	3.35679	34.25	0.05668	0.58	0.02896	0.30
127	A University NB-2		1411993	993 1152583	83 1411963	3 1152623	658	20.00	600.0	6.23	0.14081	0.88	0.54775	3.41	3.35679	20.92	0.05668	0.35	0.02896	0.18
128	A University NB-3		0 1411963	963 1152623	23 1411940	0 1152704	658	84.20	0.016	10.49	0.14081	1.48	0.54775	5.75	3.35679	35.22	0.05668	0.59	0.02896	0.30
129	Q University NB-4 2 Main	5 25	1411940	940 1152704	04 1411926	6 1152747	658	45.22	600.0	5.64	0.16153	0.91	0.61976	3.49	3.55964	20.06	0.06870	0.39	0.03314	0.19
130	A University NB-5	5 30	0 1411926	_	47 1411903	3 1152859	864	114.34	0.022	18.71	0.14081	2.63	0.54775	10.25	3.35679	62.80	0.05668	1.06	0.02896	0.54
131	A University NB-6	5 40	0 1411903	903 1152859	59 1411858	8 1152970	864	119.77	0.023	19.60	0.10811	2.12	0.49048	9.61	2.86633	56.18	0.03889	92.0	0.02209	0.43
132	Q University SB-6 2 Main	5 10	0 1411823	323 1152953	53 1411863	3 1152849	719	111.43	0.021	15.17	0.31766	4.82	1.03770	15.75	5.32956	80.87	0.13071	1.98	0.05713	0.87
133	A University SB-7		0 1411863	ì	\mathbf{H}	3 1152791	532	61.35	0.012	6.18	0.14081	0.87	0.54775	3.39	3.35679	20.75	0.05668	0.35	0.02896	0.18
	A University SB-8				\rightarrow	_	532	194.83	0.037	19.63	0.14081	2.76	0.54775	10.75	3.35679	65.90	0.05668	1.11	0.02896	0.57
_	Q University SB-9 2 Union			_	_	_	532	77.83	0.015	7.84	0.16153	1.27	0.61976	4.86	3.55964	27.92	0.06870	0.54	0.03314	0.26
136	A University SB-10	_		`	_	÷	612	67.78	0.013	7.86	0.14081	1.11	0.54775	4.30	3.35679	26.37	0.05668	0.45	0.02896	0.23
37	A Main WB-2			-	-	_	738	231.52	0.044	32.36	0.16153	5.23	0.61976	20.06	3.55964	115.19	0.06870	2.22	0.03314	1.07
138	Q Main WB-3 2 Pitkin	5 25	1411733	733 1152767	57 1411616	6 1152729	738	123.02	0.023	17.19	0.16153	2.78	0.61976	10.66	3.55964	61.21	0.06870	1.18	0.03314	0.57
139	A Main VB-4	+	Ť	-	-	_	457	93.00	0.0.0	- 000	0.14081	4	0.54775	4.44	3.35679	22.72	0.02000	0.40	0.02090	0.23
4	O Main FB-2 2 I Iniversity	2 30	T	_	_	-	763	119.85	0.030	17.32	0.14001	2 80	0.54775	10.73	3.5564	90.20	0.03050	1 10	0.02030	0.63
╀	A Main EB-3	+	T	_		-	033	161 01	0.020	28.61	0.10081	7.00	0.5/775	15.67	3 35670	00.00	0.000.0	1.62	90800	0.37
143	C Chestnut Ramp 1			÷	_	- 	1108	129.63	0.025	27.20	0.13749	3.74	0.53551	14.57	3.20337	87.14	0.05794	1.58	0.02935	0.81
144	C Chestnut Ramp 2			+	-	Ľ.	1108	57.22	0.011	12.01	0.13749	1.65	0.53551	6.43	3.20337	38.46	0.05794	0.70	0.02975	0.36
145 Q	Q Chestnut Ramp-3 2 Pitkin	4 25	1410006	1149831	31 1409992	2 1149792	1108	41.44	800.0	8.70	0.15547	1.35	0.54860	4.77	3.18311	27.68	0.06681	0.58	0.03152	0.27
146	A Chestnut Ramp 4	4 30	П	Н	-	Н	1108	69.81	0.013	14.65	0.13749	2.01	0.53551	7.85	3.20337	46.93	0.05794	0.85	0.02975	0.44
147	C Union Ramp 2 IL-3	4 35		·	-	ш	27	85.80	0.016	0.44	0.12520	0.05	0.52749	0.23	3.48283	1.53	0.05186	0.02	0.02915	0.01
148	C Union Ramp 2 IL-2			-		_	27	79.61	0.015	0.41	0.12520	0.05	0.52749	0.21	3.48283	1.42	0.05186	0.02	0.02915	0.01
149	C Union Ramp 2 IL-1	+	Ť	`\'	_	- ;	27	81.02	0.015	0.41	0.12520	0.05	0.52749	0.22	3.48283	1.44	0.05186	0.02	0.02915	0.01
151	A Union Ramp 2 II -1	4 4	5 1411128	128 1150348	48 1411152	2 1150435	227	92.97	0.010	3.88	0.12520	0.50	0.52749	2.05	3.46263	13.51	0.05186	0.20	0.02915	0.12
152	A Union Ramp 2 IL-3			+	-	+	227	130.38	0.025	5.61	0.12520	0.70	0.52749	2.96	3.48283	19.52	0.05186	0.29	0.02915	0.16
153	C IL Ramp 2 PitkinS-1	4 35	5 1411117	117 1150553	53 1411036	6 1150394	45	178.44	0.034	1.52	0.12520	0.19	0.52749	0.80	3.48283	5.30	0.05186	0.08	0.02915	0.04
154	C IL Ramp 2 PitkinS-2	4 35	5 1411036	H	Н	ш	45	113.09	0.021	0.96	0.12520	0.12	0.52749	0.51	3.48283	3.36	0.05186	0.05	0.02915	0.03
155	A Pitkin Ramp 2 IL-1			_	\rightarrow	-	283	122.20	0.023	6.55	0.12520	0.82	0.52749	3.45	3.48283	22.81	0.05186	0.34	0.02915	0.19
156	A Pitkin Ramp 2 IL-2	4 35	7 1410950	950 1150175	75 1410928	8 1150080	283	97.51	0.018	5.23	0.12520	0.65	0.52749	2.76	3.48283	18.20	0.05186	0.27	0.02915	0.15
158 158	C.I. Ramp 2 Union-2	4 4	T	-	-		206	185.74	0.040	7.25	0.12520	0.03	0.52749	3 82	3.46263	25.24	0.03186	0.43	0.02915	0.24
159	C IL Ramp 2 Union-3	-		+-	-	-	206	102.88	0.019	4.01	0.12520	0.50	0.52749	2.12	3.48283	13.98	0.05186	0.21	0.02915	0.12
160	C IL Ramp 2 Union-4	4 35		-	-	6 1151908	206	140.12	0.027	5.47	0.12520	0.68	0.52749	2.88	3.48283	19.04	0.05186	0.28	0.02915	0.16
161	C IL Ramp 2 Union-5	4 35	5 1411736	736 1151908	08 1411819	9 1152064	206	176.71	0.033	6.89	0.12520	0.86	0.52749	3.64	3.48283	24.01	0.05186	0.36	0.02915	0.20
162	C IL Ramp 2 Union-6	4 35	Ì	7	\rightarrow	÷ .	206	149.97	0.028	5.85	0.12520	0.73	0.52749	3.09	3.48283	20.38	0.05186	0.30	0.02915	0.17
163	C IL Ramp 2 Pitkin N-1	45	5 1411762	762 1152657	57 1411756	6 1152567	151	90.20	0.017	2.58	0.10826	0.28	0.53292	1.37	3.84721	9.92	0.04423	0.11	0.02918	0.08
165	C IL Ramp 2 Pitkin N-2	40 40		_	_	_	151	520.88	0.0118	17.76	0.11582	2.06	0.53231	9.45	3.70866	65.85	0.04423	0.07	0.02910	0.05
166	C IL Ramp 2 Pitkin N-4		T	_			151	112 29	0.110	321	0.11550	0.70	0.53211	9.45	3.70000	11.18	0.047.70	0.00	0.02330	0.02
2	OIL Rainp & Fibrii 187					_	2	1.6.60	1 20.0	14.0	0.12020	5.5	0.02170	50.	0.40400	0	00.00.0		0.020.0	0.00

Inner Loop Corridor (PIN 4940.T7)
MESOSCALE ANALYSIS
No-Build ETC+10

Link Input Data

ETC+10 Growth FACTOR =

g/hr g/hr g/hr

158 612 5,420 85 42

TOTAL NO-BUILD ETC+10 VOC EMISSIONS BURDEN =
TOTAL NO-BUILD ETC+10 NO× EMISSIONS BURDEN =
TOTAL NO-BUILD ETC+10 CO EMISSIONS BURDEN =
TOTAL NO-BUILD ETC+10 PM-10 EMISSIONS BURDEN =
TOTAL NO-BUILD ETC+10 PM-2.5 EMISSIONS BURDEN =

Link Link Description MOVES Speed X1 Y1 X2 Y2
(ft) (ft)
1409460 1149625
1409653 1149655
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1410299 1149720
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1410907 1149991
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Date: 11/15/2013 Time: 11:34 AM

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Š.		_		£ £	€	: €	(veh/hr)	(E)	(mi)	(veh*mi/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)
53	C Union-8	Н	П	$\boldsymbol{\vdash}$		_	237	245.69	0.047	11.03	0.07665	0.85	0.28588	3.15	2.39623	26.43	0.04038	0.45	0.01903	0.21
54	C Union-9	+			_	\rightarrow	237	129.62	0.025	5.82	0.07665	0.45	0.28588	1.66	2.39623	13.94	0.04038	0.23	0.01903	0.11
55	C Union-10	+	30 141	1411296 1150708		_	237	86.33	0.016	3.88	0.08926	0.35	0.30392	1.18	2.59923	10.07	0.04971	0.19	0.02226	60.0
27	Q Union-11 Z Broad A Union-12	Ω LC		1411333 1150786	86 1411371	371 1150880 495 1151218	1/8	360.03	0.019	30.89	0.10224	0.35	0.33740	1.15	2.71153	9.27	0.06135	1.25	0.02607	0.09
28	Q Union-13 2 East	2	25 141	_			227	103.62	0.020	4.45	0.10224	0.46	0.33740	1.50	2.71153	12.08	0.06135	0.27	0.02607	0.12
29	A Union-14	2	П	н		$\boldsymbol{\vdash}$	281	696.01	0.132	37.04	0.07665	2.84	0.28588	10.59	2.39623	88.76	0.04038	1.50	0.01903	0.70
09 5	C Union-15	2	十	1411798 1151958		398 1152195	339	257.23	0.049	16.52	0.08926	1.47	0.30392	5.02	2.59923	42.93	0.04971	0.82	0.02226	0.37
10	O Union-17 2 University	0 10	25 141	1411977 1152406	195 1411977	_	287	107 70	0.043	12.18	0.00926	1.25	0.30392	411	2.59923	33.02	0.04971	0.75	0.02220	0.37
63	A Union-18	2 2	T	١.		100	322	239.18	0.020	14.59	0.08926	1.30	0.30392	4.43	2.59923	37.91	0.04971	0.73	0.02226	0.32
64	Q Union 2 Broad Lt	2	10 141	,	-	÷	59	100.09	0.019	1.12	0.20262	0.23	0.57358	0.64	3.96591	4.44	0.11954	0.13	0.04636	0.05
65	Q Union 2 East Rt	2	П	_		-	226	104.75	0.020	4.48	0.15034	0.67	0.45716	2.05	3.53008	15.83	0.08790	0.39	0.03591	0.16
99	A Pitkin-1	2		$\boldsymbol{-}$		\rightarrow	151	75.66	0.014	2.16	0.07665	0.17	0.28588	0.62	2.39623	5.19	0.04038	60.0	0.01903	0.04
29	A Pitkin-2	2	7	_		\rightarrow	151	72.47	0.014	2.07	0.07665	0.16	0.28588	0.59	2.39623	4.97	0.04038	0.08	0.01903	0.04
89	A Pitkin-3	2	7	_		_	151	98.23	0.019	2.81	0.06668	0.19	0.27879	0.78	2.22685	6.26	0.03335	0.09	0.01675	0.05
69	A Pitkin-4	C L	40 141	1411659 1152545	245 1411662 154 4444645	562 1152454	151	91.05	0.017	2.60	0.06668	0.17	0.27879	0.73	2.22685	5.80	0.03335	0.09	0.01675	0.04
2 2	A FIIKIII-3	ם ע	Ť	_		-	151	91.39	0.017	2.02	0.06668	0.17	0.27879	0.73	2.22003	17.44	0.03335	0.09	0.01675	0.04
122	C Pitkin-5	0 10	T	_			137	206.90	0.039	7.93	0.06668	0.36	0.27879	1.50	2.22663	11.95	0.03335	0.28	0.01675	0.03
73	C PIRIII-1	ם ע	35 141			_	137	96.90	0.039	0.37	0.00666	0.30	0.27678	0.30	2.22003	5.40	0.03333	0.10	0.01673	0.03
74	C Pitkin-9	ט ע	t	_		-	360	286.23	0.054	19.52	0.07665	1.50	0.28588	25.58	2.39623	46.76	0.04038	0.79	0.01903	0.37
75	Q Pitkin-102 East	+	t	_		-	360	107.52	0.020	7.33	0.10224	0.75	0.33740	2.47	2.71153	19.88	0.06135	0.45	0.02607	0.19
92	A Pitkin-11	2	35 141	1.		-	285	304.32	0.058	16.43	0.07665	1.26	0.28588	4.70	2.39623	39.36	0.04038	99.0	0.01903	0.31
22	Q Pitkin-12 2 Broad	2	T	_			285	107.34	0.020	5.79	0.10224	0.59	0.33740	1.95	2.71153	15.71	0.06135	0.36	0.02607	0.15
78	A Pitkin-13	2	П	1411274 1151045	1411076	076 1150549	399	534.06	0.101	40.36	0.06668	2.69	0.27879	11.25	2.22685	89.87	0.03335	1.35	0.01675	0.68
62	A Pitkin-14	5	35 141	_		_	420	268.02	0.051	21.32	0.07665	1.63	0.28588	60.9	2.39623	51.09	0.04038	0.86	0.01903	0.41
80	A Pitkin-15	2	7	\rightarrow	_	-	170	173.85	0.033	5.60	0.07665	0.43	0.28588	1.60	2.39623	13.41	0.04038	0.23	0.01903	0.11
81	C Pitkin-16	2	╗				170	118.70	0.022	3.82	0.07665	0.29	0.28588	1.09	2.39623	9.16	0.04038	0.15	0.01903	0.07
82	C Pitkin-17	2 1	T	_		_	254	171.94	0.033	8.27	0.07665	0.63	0.28588	2.36	2.39623	19.82	0.04038	0.33	0.01903	0.16
833	C PITKIN-18	Ω LI	35 141	1410/29 1149918 141061E 11409E3	1410615	015 1149853	254	131.23	0.025	6.08	0.07665	0.48	0.28588	1.80	2.39623	15.13	0.04038	0.25	0.01903	0.12
+	C Pitkin-19	+	Ť				254	195 56	0.024	0.00	0.07665	0.47	0.26580	7 55	2.39023	21.30	0.04030	0.25	0.01903	0.12
+	O Pitkin-21 W 2 Chestnut	2 2	T	_		_	254	120.50	0.033	5.80	0.10224	0.59	0.33740	1.96	2.71153	15.72	0.06135	0.36	0.02607	0.15
╀	A Pitkin-22	2	T	_		-	254	41.11	0.008	1.98	0.07665	0.15	0.28588	0.57	2.39623	4.74	0.04038	0.08	0.01903	0.04
88	A Pitkin-23	2	T	1410150 1149775	775 1409937		338	214.58	0.041	13.74	0.07665	1.05	0.28588	3.93	2.39623	32.92	0.04038	0.55	0.01903	0.26
88	A Pitkin-24	2	П	1409937 1149749		725 1149728	1525	213.04	0.040	61.53	0.07665	4.72	0.28588	17.59	2.39623	147.44	0.04038	2.48	0.01903	1.17
06	C Pitkin-25	2	35 140	\rightarrow		_	1525	251.31	0.048	72.58	0.07665	5.56	0.28588	20.75	2.39623	173.93	0.04038	2.93	0.01903	1.38
91	C Howell-1	٥ ا	T	1409364 1149606 44062F 4440634	306 1409675 334 4409053	575 1149624	1/6	311.52	0.059	10.38	0.07665	0.80	0.28588	2.97	2.39623	24.88	0.04038	0.42	0.01903	0.20
92	C Howell-2	ט ע	Ť			_	176	150 71	0.030	5.20	0.07663	0.74	0.26300	1.62	2.39023	13.84	0.04030	0.29	0.02226	0.10
8 6	Q Howell-4 E 2 Monroe	2	20 141	_			176	81.22	0.015	2.71	0.12260	0.33	0.38572	1.04	3.19129	8.64	0.07169	0.19	0.03035	0.08
92	A Howell-5	2	П	-		-	82	106.00	0.020	1.65	0.10224	0.17	0.33740	0.56	2.71153	4.46	0.06135	0.10	0.02607	0.04
96	A Howell-6	2	┪	\rightarrow		_	82	283.58	0.054	4.40	0.07665	0.34	0.28588	1.26	2.39623	10.55	0.04038	0.18	0.01903	0.08
97	C Howell-7	2	T	_	_	_	75	245.98	0.047	3.49	0.08926	0.31	0.30392	1.06	2.59923	90.08	0.04971	0.17	0.02226	0.08
88 8	C Howell-8	O 17	10 141	1410805 1149840 1410855 1149874	340 1410855	355 1149874 326 1149862	75	50.46	0.011	1.02	0.15034	0.73	0.45716	0.39	3.53008	3.03	0.08790	0.08	0.03591	0.03
100	C Clinton NB-2	2	Ť	-		-	1770	386.21	0.073	129.47	0.05927	7.67	0.27598	35.73	2.12775	275.48	0.02778	3.60	0.01503	1.95
101	Q Monroe N-6 2 Howell	2	T	-	572 1410329	_	560	106.83	0.020	11.33	0.10224	1.16	0.33740	3.82	2.71153	30.72	0.06135	0.70	0.02607	0.30
102	A Monroe N-7	2	H		338 1410242	${}=$	641	109.20	0.021	13.26	0.07665	1.02	0.28588	3.79	2.39623	31.77	0.04038	0.54	0.01903	0.25
103	Q Monroe N 2 Chestnut	2	T	_	_	-	641	65.00	0.012	7.89	0.10224	0.81	0.33740	2.66	2.71153	21.40	0.06135	0.48	0.02607	0.21
104	A Chestnut N-1	מו	1			_	414	27.12	0.010	4.02	0.07665	0.31	0.28588	1.15	2.39623	3.62	0.04038	01.0	0.01903	0.08
105	A Chestrut N-2	o س	35 1411	1410150 1149775	75 1410099	1149832	414	76.49 86.45	0.014	6.00	0.07665	0.46	0.28588	1.71	2.39623	16.37	0.04038	0.24	0.01903	0.11
107	A Chestnut N-4	2 2	T	-	_	-	414	111.63	0.021	8.75	0.07665	0.67	0.28588	2.50	2.39623	20.97	0.04038	0.35	0.01903	0.13
108	C Chestnut S-1	2	т	-		_	570	108.52	0.021	11.72	0.07665	06.0	0.28588	3.35	2.39623	28.07	0.04038	0.47	0.01903	0.22
109	Q Chestnut S-2 2 Pitkin	\dashv	\dashv				570	127.94	0.024	13.81	0.10224	1.41	0.33740	4.66	2.71153	37.45	0.06135	0.85	0.02607	0.36
_	A Chestnut S-3	+	7	1410086 1149802	302 1410125	125 1149754	694	61.85	0.012	8.13	0.07665	0.62	0.28588	2.32	2.39623	19.48	0.04038	0.33	0.01903	0.15
111	Q Chestnut S-4 Z Monroe A Monroe S-1	2	35 141	0125 11497 0188 11497	.05 14104	1410125 1149/54 1410188 1149/05 1410188 1149543	694 715	79.81 278.06	0.015	10.49 37.65	0.10224	1.0 <i>/</i> 2.89	0.33/40	3.54 10.76	2.71153	28.45 90.23	0.06135	1.52	0.02607	0.72

Link	Link Description	MOVES Sp	Speed	×1	۲,	X2	Y2	PM Peak	Length	Length	TMV	NOC	20	ž	NOx	٥	CO	PM-10	-	12	2.5
No.		Source (m	(mph)	(ft)	(t)	(t)	(ft)	(veh/hr)	(m)	(mi)	(veh*mi/hr)	EFs (g/mi)	EBs (g/hr)								
113	Q Broad WB-1 Bridge		T	$\overline{}$			1151006	78	93.94	0.018	1.39	0.15034	0.21	0.45716	0.63	3.53008	4.90	0.08790	0.12	0.03591	0.05
114	A Broad WB-2	5	T	_	1151006 14	1411234 1	1151024	86	52.20	0.010	0.85	0.08926	0.08	0.30392	0.26	2.59923	2.21	0.04971	0.04	0.02226	0.02
115	A Broad WB-3	2	30 14				1151062	86	105.11	0.020	1.71	0.08926	0.15	0.30392	0.52	2.59923	4.45	0.04971	60.0	0.02226	0.04
116		2	T			\rightarrow	1150998	243	98.62	0.019	4.54	0.12260	0.56	0.38572	1.75	3.19129	14.48	0.07169	0.33	0.03035	0.14
117		2	7		_	-	1150972	272	61.74	0.012	3.18	0.15034	0.48	0.45716	1.45	3.53008	11.23	0.08790	0.28	0.03591	0.11
118	Q Broad EB-5 Bridge	ro r	10 14	1411275 17	1150972 14	1411358 1	1150933	272	91.71	0.017	9.72	0.20262	0.96	0.57358	1.55	3.96591	18.74	0.11954	0.56	0.04636	0.22
120		2	T				1151364	430	50.45	0.010	4.11	0.12260	0.50	0.38572	1.58	3.19129	13.11	0.07169	0.29	0.03035	0.12
121	Q East WB-3 Bridge	2	Т	-	-	10	1151398	416	107.52	0.020	8.47	0.12260	1.04	0.38572	3.27	3.19129	27.03	0.07169	0.61	0.03035	0.26
122		2	T	1411435 17	1151398 14	1411374 1	1151422	365	65.55	0.012	4.53	0.12260	0.56	0.38572	1.75	3.19129	14.46	0.07169	0.32	0.03035	0.14
123	A East EB-1	2	T		1151389 14	1411426 1	1151380	689	29.09	0.011	7.92	0.12260	0.97	0.38572	3.05	3.19129	25.27	0.07169	0.57	0.03035	0.24
124	Q East EB-2 Bridge	2		1411426 17	1151380 14	1411524 1	1151347	689	103.41	0.020	13.49	0.12260	1.65	0.38572	5.20	3.19129	43.06	0.07169	76.0	0.03035	0.41
125		2		1411524 17		1411594 1	1151322	875	74.33	0.014	12.32	0.12260	1.51	0.38572	4.75	3.19129	39.31	0.07169	0.88	0.03035	0.37
126	A University NB-1	5	Ħ	1412065 17	1152544 14	1411993 1	1152583	702	81.88	0.016	10.89	0.08926	0.97	0.30392	3.31	2.59923	28.30	0.04971	0.54	0.02226	0.24
127	A University NB-2	5	П	1411993 17	1152583 14	1411963 1	1152623	702	20.00	600.0	6.65	0.08926	0.59	0.30392	2.02	2.59923	17.28	0.04971	0.33	0.02226	0.15
128	A University NB-3	5	Г		_		1152704	702	84.20	0.016	11.20	0.08926	1.00	0.30392	3.40	2.59923	29.10	0.04971	0.56	0.02226	0.25
129	Q University NB-4 2 Main	5	П	1411940 17	1152704 14	1411926 1	1152747	702	45.22	600.0	6.01	0.10224	0.61	0.33740	2.03	2.71153	16.30	0.06135	0.37	0.02607	0.16
130	A University NB-5	5	30 14	1411926 17		1411903 1	1152859	919	114.34	0.022	19.90	0.08926	1.78	0.30392	6.05	2.59923	51.73	0.04971	66.0	0.02226	0.44
131	A University NB-6	5	40 14	1411903 1152859		1411858 1	1152970	919	119.77	0.023	20.85	0.06668	1.39	0.27879	5.81	2.22685	46.42	0.03335	0.70	0.01675	0.35
132	Q University SB-6 2 Main	2	10 14	1411823 17	1152953 14	1411863 1	1152849	992	111.43	0.021	16.17	0.20262	3.28	0.57358	9.27	3.96591	64.11	0.11954	1.93	0.04636	0.75
133	A University SB-7	5	П		_	_	1152791	562	61.35	0.012	6.53	0.08926	0.58	0.30392	1.98	2.59923	16.97	0.04971	0.32	0.02226	0.15
134	A University SB-8	5	T		_	_	1152605	562	194.83	0.037	20.74	0.08926	1.85	0.30392	6.30	2.59923	53.90	0.04971	1.03	0.02226	0.46
135	Q University SB-9 2 Union	5		_	_	1411994 1	1152548	562	77.83	0.015	8.28	0.10224	0.85	0.33740	2.80	2.71153	22.46	0.06135	0.51	0.02607	0.22
136	A University SB-10	2	Ħ	1411994 17	_	_	1152523	656	67.78	0.013	8.42	0.08926	0.75	0.30392	2.56	2.59923	21.89	0.04971	0.42	0.02226	0.19
137	A Main WB-2	5			言		1152767	790	231.52	0.044	34.64	0.10224	3.54	0.33740	11.69	2.71153	93.93	0.06135	2.13	0.02607	06.0
138	Q Main WB-3 2 Pitkin	5	T		\rightarrow	\rightarrow	1152729	790	123.02	0.023	18.41	0.10224	1.88	0.33740	6.21	2.71153	49.91	0.06135	1.13	0.02607	0.48
139		2	T	1411616 17	_	-	1152703	490	93.68	0.018	8.69	0.08926	0.78	0.30392	2.64	2.59923	22.60	0.04971	0.43	0.02226	0.19
140	_	2	T		\neg		1152734	818	202.61	0.038	31.39	0.08926	2.80	0.30392	9.54	2.59923	81.59	0.04971	1.56	0.02226	0.70
141	Q Main EB-2 2 University	2	1	\rightarrow		-	1152771	818	119.85	0.023	18.57	0.10224	1.90	0.33740	6.27	2.71153	50.35	0.06135	1.14	0.02607	0.48
142	A Main EB-3	2	T	1411852 17			1152821	666	161.91	0.031	30.63	0.08926	2.73	0.30392	9.31	2.59923	79.63	0.04971	1.52	0.02226	0.68
143		4	T			\neg	1149888	1178	129.63	0.025	28.92	0.08673	2.51	0.29891	8.65	2.45069	70.88	0.05027	1.45	0.02236	0.65
144	_	4				-	1149831	1178	57.22	0.011	12.77	0.08673	1.11	0.29891	3.82	2.45069	31.29	0.05027	0.64	0.02236	0.29
145	ø	4	1	1410006 17	_	٠. ا	1149792	1178	41.44	0.008	9.24	0.09845	0.91	0.30445	2.81	2.39531	22.14	0.05911	0.55	0.02409	0.22
146		4	T	1409992 1149792		1409937 1	1149749	1178	69.81	0.013	15.58	0.08673	1.35	0.29891	4.66	2.45069	38.17	0.05027	0.78	0.02236	0.35
147	C Union Ramp 2 IL-3	4 <	35 14		-		1150119	67	20.80	0.016	0.47	0.07892	0.04	0.29845	0.14	2.75423	1.30	0.04434	0.02	0.02195	0.0
149	C Union Ramp 2 II -1	4	Ť		_	+	1150260	29	81.02	0.015	0.45	0.07892	0.00	0.23845	0.13	2 75423	1 23	0.04434	0.02	0.02135	10.0
150	A Union Ramp 2 IL-1	. 4	T		_		1150348	238	92.97	0,018	4.19	0.07892	0.33	0,29845	1,25	2.75423	11.54	0.04434	0.19	0.02195	60.0
151	A Union Ramp 2 IL-2	4	T	-	-	1411152 1	1150435	238	90.25	0.017	4.07	0.07892	0.32	0.29845	1.21	2.75423	11.20	0.04434	0.18	0.02195	60.0
152	A Union Ramp 2 IL-3	4	П	1411152 1		1411198 1	1150557	238	130.38	0.025	5.88	0.07892	0.46	0.29845	1.75	2.75423	16.19	0.04434	0.26	0.02195	0.13
153	C IL Ramp 2 PitkinS-1	4	Ħ	_	\dashv	\dashv	1150394	48	178.44	0.034	1.62	0.07892	0.13	0.29845	0.48	2.75423	4.47	0.04434	0.07	0.02195	0.04
154	C IL Ramp 2 PitkinS-2	4	T		\rightarrow	$\overline{}$	1150289	48	113.09	0.021	1.03	0.07892	0.08	0.29845	0.31	2.75423	2.83	0.04434	0.05	0.02195	0.02
155	A Pitkin Ramp 2 IL-1	4	T			_	1150175	305	122.20	0.023	7.06	0.07892	0.56	0.29845	2.11	2.75423	19.44	0.04434	0.31	0.02195	0.15
156	A Pitkin Ramp 2 IL-2	4	┪	\rightarrow	_	ω	1150080	305	97.51	0.018	5.63	0.07892	0.44	0.29845	1.68	2.75423	15.51	0.04434	0.25	0.02195	0.12
157		4	T	_		_	1151510	217	210.79	0.040	8.66	0.07892	0.68	0.29845	2.59	2.75423	23.86	0.04434	0.38	0.02195	0.19
158		4			\rightarrow		1151684	217	185.74	0.035	7.63	0.07892	09:0	0.29845	2.28	2.75423	21.03	0.04434	0.34	0.02195	0.17
159	C IL Ramp 2 Union-3	4	+		-	-	1151780	217	102.88	0.019	4.23	0.07892	0.33	0.29845	1.26	2.75423	11.65	0.04434	0.19	0.02195	0.09
160	C IL Ramp 2 Union-4	4	T	1411679 17			1151908	217	140.12	0.027	5.76	0.07892	0.45	0.29845	1.72	2.75423	15.86	0.04434	0.26	0.02195	0.13
161	C IL Ramp 2 Union-5	4	T	1411/36 17	_		1152064	217	176.71	0.033	7.26	0.07892	0.57	0.29845	2.17	2.75423	20.00	0.04434	0.32	0.02195	0.16
162	C IL Ramp 2 Union-6	4	T		-	_	1152201	217	149.97	0.028	6.16	0.07892	0.49	0.29845	1.84	2.75423	16.98	0.04434	0.27	0.02195	0.14
163		4	†	1411/62 17		1411/56 1	1152567	162	90.20	0.017	2.77	0.06779	0.19	0.30638	0.85	3.13934	8.69	0.03624	0.10	0.02156	0.06
164	C IL Ramp 2 Pitkin N-2	4 <	45 14	1411/56 115256/		1411/46 1152509	1152509	162	58.86	0.011	1.81	0.06779	0.12	0.30638	0.55	3.13934	5.67	0.03624	0.07	0.02156	0.04
166		1 4	T	11140 1		111512	151313	162	112.20	0.1.10	3.45	0.07807	1.39	0.30377	3.79	2 75/23	90.94	0.03993	0.76	0.02167	0.42
100		4		1 7/011	151815	411242	151804	701	1.12.29	0.021	3.40	0.07892	0.27	0.29845	1.03	7.75423	y.43	0.04424	0.15	0.02130	0.08

Column C	MESOSCALE ANALYSIS													TO I AL NO-E	TOTAL NO-BUILD ETC+20 VOC EMISSIONS BURDEN					5	g/nr
Tech Review National Part	No-Build ETC+20	ETC+20 Y	'ear =		2035									TOTAL NO-E	3UILD ETC+;	O NOX EMIS	SIONS BUF	NDEN =	2	527	g/hr
No. Col. East A 50 441780 114870 141480 141420		ETC+20 G	FAC FAC	TOR=	¥.									TOTAL NO-E	3UILD ETC+;	O CO EMISS	SIONS BURI	JEN =	4,	4,797	g/hr
Name	Link Input Data			ı										TOTAL NO-E	3UILD ETC+;	20 PM-10 EM	IISSIONS BI	JRDEN =		83	g/hr
Name														TOTAL NO-E	3UILD ETC+;	20 PM-2.5 EN	AISSIONS B	URDEN =		38	g/hr
C. I. E. E. C. C. I. E. E. C. C. C. I. C.	(ALL DATA (except yellow fields) ON Th	IS PAGE IS F		ENERATED -	enter data	on ETC input	page)		14000	4	FAAN		ç		ä		9		9		L
C.L.E.B-2 4 SO 1400-100 1		MOVES	Speed (mph)	¥ €	F €	Σ €	2 €	PM Peak (veh/hr)	Lengtn (m)	Length (mi)	vm I (veh*mi/hr)	EFs (a/mi)	EBs (a/hr)	EFs (a/mi)	EBs (a/hr)	EFs (a/mi)	ર⊢	EFs (a/r	pi) EBs (a/hr)	EFs (a/mi) EE	Z.5 EBs (a/hr)
C. IL EB-2 4 0 00 14400405 1440070 144		4	Н	-	_	`	149625	260	92.86	0.019	4.82	0.04397	0.21	0.23659	1.14	1.98340	-	╆	0.12	0.01302	90:0
CILERA 4 St. 1000 140000		4	H	\vdash	${}$	-	149655	260	195.32	0.037	9.62	0.04397	0.42	0.23659	2.28	1.98340	19.08	0.02391	0.23	0.01302	0.13
CLEERY 4 SOL HUMBON 144820 1410020 1146720 200 1000 0.05 0.05 0.05 0.05 0.05 0.05 0.		4 ,	1	_		_	149703	260	477.42	0.090	23.51	0.04397	1.03	0.23659	5.56	1.98340	46.63	0.02391	0.56	0.01302	0.31
C. L. E. C. C. C. C. C. C. C		4 <	Ť	-		-	149720	760	171.84	0.033	8.46	0.04397	0.37	0.23659	2.00	1.98340	16.78	0.02391	0.20	0.01302	0.11
CLIEBEY 4 SO HATORO THARDON THARDON THARDON THARDON THARDON THAT THAN THAN THAN THAN THAN THAN THA		4 4	Ť	-	-	-	149743	092	172.03	0.038	9.62	0.04397	0.43	65957.0	2.32	1.98340	16.80	0.02391	0.23	0.01302	0.13
CLEBS 4 4 50 HRYMON STREAMS 18559 0.020 7.56 0.04597 0.04 0.75890 0.05 1.0 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04 0.04597 0.04		1 4	t	_	_	_	149883	260	159.53	0.030	7.86	0.04397	0.35	0.23659	1.86	1.98340	15.58	0.02391	0.19	0.01302	0.10
CLEB-10 4 50 44 40 50 44 50 44 50 44 40 50 44 50 44 40 50 40 50 <		4	T			-	149991	260	155.59	0.029	99'.	0.04397	0.34	0.23659	1.81	1.98340	15.20	0.02391	0.18	0.01302	0.10
CLEB-17 4 500 4141000 11410000 1141000 1141000	O	4	H	ш	ш		150059	260	85.00	0.016	4.19	0.04397	0.18	0.23659	0.99	1.98340	8.30	0.02391	0.10	0.01302	0.05
C LEB-17 4 50 1411/102 150/202 1414/24 110/202 150/202 1		4	+	_	-	_	150245	229	210.24	0.040	9.12	0.04397	0.40	0.23659	2.16	1.98340	18.09	0.02391	0.22	0.01302	0.12
CLEB-13 4 501 HITTERS 111 (1906) 111 (1907) CO-2019 CO		4 4	Ť		_		150430	229	138 93	0.038	8.67	0.04397	0.38	0.23659	2.05	1.98340	17.20	0.02391	0.21	0.01302	0.11
C LEB-14 4 50 4411425 1151326 411532 1151320 412227 1009 1009 4123 1000337 100 102659 513 116940		4	t	-	-	-	151135	486	619.67	0.117	57.04	0.04397	2.51	0.23659	13.49	1.98340	113.13	0.02391	1.36	0.01302	0.74
C LEB-15 4 50 1411881 11562271 262 46273 0.068 214 90 0.04597 10 52669 56 15 10 500 C LEB-17 4 50 1411881 11522271 4102 0.04797 0.070 0.20699 56 75 0.04997 0.07 0.20699 56 75 0.04997 0.07 0.20699 16 70 0.20699 57 50 0.000 </td <td></td> <td>4</td> <td>T</td> <td>-</td> <td></td> <td>-</td> <td>151320</td> <td>486</td> <td>198.88</td> <td>0.038</td> <td>18.31</td> <td>0.04397</td> <td>0.80</td> <td>0.23659</td> <td>4.33</td> <td>1.98340</td> <td>36.31</td> <td>0.02391</td> <td>0.44</td> <td>0.01302</td> <td>0.24</td>		4	T	-		-	151320	486	198.88	0.038	18.31	0.04397	0.80	0.23659	4.33	1.98340	36.31	0.02391	0.44	0.01302	0.24
C LEB-16 4 50 141708 11622057 1416227 141708 11622057 1416227 1416227 141708 11622057 1416227 141628 11622057 141		4	Н	${}^{\scriptscriptstyleullet}$	$\boldsymbol{-}$	$\boldsymbol{-}$	151745	253	452.73	0.086	21.69	0.04397	0.95	0.23659	5.13	1.98340	43.03	0.02391	0.52	0.01302	0.28
CLILED-17 4 50 4141789 1152361 141780 1152362 523 14.05 0.027 6.74 0.00337 0.0		4	+	\rightarrow	_		152227	253	506.93	960.0	24.29	0.04397	1.07	0.23659	5.75	1.98340	48.18	0.02391	0.58	0.01302	0.32
CLILERY 4 00 (4411504 1152046 1411526 1152050 1525 1531 0.031 7.28 0.0437 0.0457 0.05 0.02205 1.86 0.03205 0.0457 0.045 0.0457 0.05 0.0457 0.05 0.0457 0.045	1	4	+	-	-		152365	253	140.62	0.027	6.74	0.04397	0.30	0.23659	1.59	1.98340	13.36	0.02391	0.16	0.01302	0.09
CLL EB-27 4 50 (411820 115-5828) 141700 115-5828 (25 2127 10 0.023 10 0.0437 0.04 0.0589 2.55 1 198340 CLL EB-22 4 50 (411700 115-5820 141700 115-5820 10 0.023 10 0.0237 0.04 0.0589 0.0589 2.55 1 198340 CLL EB-22 4 50 (411700 115-5820 1415-10 0.023 0.023 0.014-97 0.04 0.0289 0.0289 1.05 1 198340 CLL WB-2 4 50 (41160 115-5820 1415-10 0.023 0.023 0.014-97 0.04 0.0289 0.0289 1.05 1.05940 CLL WB-2 4 50 (41160 115-5820 1415-10 0.023 0.023 0.014-97 0.04 0.0289 0.0289 1.05 1 198340 CLL WB-3 4 50 (41160 115-5820 1415-10 0.024 0.029 0.014-97 0.04 0.0289 0.02		4 4	t		_	_	152653	253	164.37	0.024	7.88	0.04397	0.35	0.23659	1.4-	1 98340	15.62	0.02391	0.19	0.01302	0.00
CLIL BE-27 4 50 141770 118286 1182826 1141867 1182816 1182826 1142826 1142826 1141867 1182826 1142826 1141867 1182826 1141867 1182826 1141867 1182826 112827 1182826 1182827 1182826 1182827 1182826 1182827 1182826 1182827 1182826 1182827 1182826 1182827 1182826 1182827 1182826 1182827 1182		4	t	-			152836	253	187.98	0.036	9.01	0.04397	0.40	0.23659	2.13	1.98340	17.87	0.02391	0.22	0.01302	0.12
CLILEB-22 4 50 14116A1 1153037 14116A1 115312B 14353 11532B 253 110.63 0.0235 6.04387 0.22659 1.25 1.158340 CLILBB-23 4 50 14116A1 1153137 14116A1 115312B 1155310 0.0239 0.02397 0.22659 1.25 1.98340 CLILWB-1 4 50 14116A1 1153176 1415307 14116A1 1153107 14116A1 1153107 <td></td> <td>4</td> <td>Н</td> <td>-</td> <td>н</td> <td>н</td> <td>153037</td> <td>253</td> <td>222.75</td> <td>0.042</td> <td>10.67</td> <td>0.04397</td> <td>0.47</td> <td>0.23659</td> <td>2.53</td> <td>1.98340</td> <td>21.17</td> <td>0.02391</td> <td>0.26</td> <td>0.01302</td> <td>0.14</td>		4	Н	-	н	н	153037	253	222.75	0.042	10.67	0.04397	0.47	0.23659	2.53	1.98340	21.17	0.02391	0.26	0.01302	0.14
CLL WB-2 4 50 141167 1153102 1415518 1153012 424 103.95 0.027 8.30 0.04357 0.23 0.22659 1.55 1.98340 CLL WB-2 4 50 141167 1153102 1415518 1153012 424 103.95 0.027 8.30 0.04357 0.33 0.22659 1.55 1.98340 CLL WB-2 4 50 141167 1153102 1415280 115206 2 424 142.96 1.027 1.88 0.004357 0.39 0.22659 1.97 0.189340 CLL WB-4 4 50 1411726 1152220 1411726 114222		4	┪	\rightarrow			153138	253	121.20	0.023	5.81	0.04397	0.26	0.23659	1.37	1.98340	11.52	0.02391	0.14	0.01302	0.08
CLIVINE-7 4 50 1411776 1153702 1411730 1153702 4 103.4 100.5 100.5 10.5 10.2 10.3 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2		4 ,	1	$\overline{}$			153222	253	110.63	0.021	5.30	0.04397	0.23	0.23659	1.25	1.98340	10.51	0.02391	0.13	0.01302	0.07
CLUMB-1 4 50 4411028 110208 424 200.77 0.044 6.65 0.04397 0.02 0.22659 3.59 1,893.00 CLUMB-4 4 50 1411028 1152862 441708 162287 0.04397 0.05 0.02569 0.02569 3.59 1,893.00 CLUMB-5 4 50 141708 1522871 253 141842 0.023 0.04397 0.05 0.02869 0.04397 0.05 0.04397 0.05 0.02869 1.86 1,88340 CLUMB-5 4 50 141708 1522871 45020 0.04397 0.02 0.02589 0.04397 0.05 0.02869 0.04397 0.05 0.02869 0.04397 0.04397 0.02869 0.04397		4 <	†	-	-	_	153016	424	103.95	0.020	8.35	0.04397	0.37	0.23659	1.97	1.98340	10.30	0.02391	0.20	0.01302	0.1
C LL WB-5 4 50 1411724 1152830 1411784 115282 1411784 115282 1411784 115282 1411784 115282 1411784 115282 1411786 115282 1411786 152849 253 16349 0.023 75.83 0.04397 0.534 0.23659 1.68 189340 C LL WB-5 4 50 1411786 1152280 1411786 1152230 1411778 141278 162377 0.04397 0.53 0.23659 1.64 1.88340 C LL WB-5 4 50 1411778 1152237 141478 0.023 7.84 0.04397 0.53 0.23659 1.64 1.88340 C LL WB-1 4 50 1411702 141620 1416765 1416786 152870 0.120 0.04397 0.58 0.58 0.120 0.04397 0.58 0.58 0.04397 0.68 0.23850 0.68 1.88340 0.023 0.04397 0.04397 0.028 0.02850 0.04397 <t< td=""><td></td><td>1 4</td><td>T</td><td></td><td></td><td></td><td>152830</td><td>424</td><td>209.77</td><td>0.040</td><td>16.85</td><td>0.04397</td><td>0.74</td><td>0.23659</td><td>3.99</td><td>1.98340</td><td>33.41</td><td>0.02391</td><td>0.40</td><td>0.01302</td><td>0.22</td></t<>		1 4	T				152830	424	209.77	0.040	16.85	0.04397	0.74	0.23659	3.99	1.98340	33.41	0.02391	0.40	0.01302	0.22
CLL WB-6 4 50 141784 115282 14534 0.031 7.83 0.04397 0.25 0.166 1.88340 CLL WB-6 4 50 4417786 1152820 4411786 1152820 4411786 152240 0.072 6.86 0.04397 0.31 0.25659 1.64 1.86340 CLL WB-7 4 50 4417726 1152201 441762 1.0259 1.64 0.025 0.04397 0.31 0.25659 1.64 1.68340 CLL WB-10 4 50 4414102 115521 141172 11526 1.023 3.04 0.04397 0.31 0.25659 1.64 1.68340 CLL WB-10 4 50 4414102 141172 141626 141626 152 46342 0.0437 1.66 0.3837 1.66 1.89340 CLL WB-10 4 50 4411020 141020 141020 15000 0.120 0.04397 0.34 0.2869 5.65 0.120		4	T				152652	424	184.36	0.035	14.80	0.04397	0.65	0.23659	3.50	1.98340	29.36	0.02391	0.35	0.01302	0.19
CLL WB-6 4 50 1411786 1152340 235 1442 0.023 567 0.04397 0.25 0.04397 0.03 0.023569 1.34 1.98340 CLL WB-7 4 50 1411782 1152230 1411601 151756 253 1456 0.04397 1.05 0.23659 1.64 198340 CLL WB-9 4 50 1411782 1152230 1411601 151756 253 49842 0.04397 1.06 0.23659 1.64 1.98340 CLL WB-10 4 50 1411784 1410601 14116001 151765 0.120 3.04 0.04397 1.06 0.23659 1.64 1.98340 CLL WB-10 4 50 1411784 1410020 1410200 150077 2.23 31440 0.060 15.06 0.04397 0.15 0.23659 1.64 1.98340 CLL WB-12 4 50 1410704 1410207 1410807 2.25 31440 0.060 15.06 0.04397		4	П	_		${m o}$	152489	253	163.44	0.031	7.83	0.04397	0.34	0.23659	1.85	1.98340	15.53	0.02391	0.19	0.01302	0.10
CLL WB-7 4 50 1411782 1152201 253 145.04 0.027 6.95 0.04337 0.02 0.025959 1.65 1.028699 1.66 1.028699 1.66 1.02840 1.028 0.0437 1.05 0.028699 1.66 1.02840 1.028699 1.05 0.04387 1.05 0.028699 1.66 1.03840 1.028699 1.05 0.04387 1.06 0.028699 1.05 1.03 0.028699 1.05 1.03 0.028699 1.05 1.03 0.028699 1.05 0.04387 1.06 0.028699 1.05 0.04387 1.05 0.028699 1.05 0.04387 1.05 0.028699 1.05 0.04387 0.06 0.028699 1.05 0.04387 0.06 0.028699 1.05 1.05 0.04387 0.04 0.028699 1.05 1.05 1.05 0.04387 0.06 0.028699 1.05 1.05 1.05 0.04387 0.06 0.028699 1.05 1.05 1.05 0.05 1.05		4	T	_		_	152371	253	118.42	0.022	2.67	0.04397	0.25	0.23659	1.34	1.98340	11.25	0.02391	0.14	0.01302	0.07
C LL WB-1 4 50 1411021 1151750 1151025		4	+	- '		-	152230	253	145.04	0.027	6.95	0.04397	0.31	0.23659	1.64	1.98340	13.78	0.02391	0.17	0.01302	0.09
C LL WB-10 4 50 141134 1150550 253 666.45 0.124 31.45 0.04397 0.23659 7.44 1,98340 C LL WB-11 4 50 141134 1150550 141020 150650 0.04397 0.04397 0.06 15.06 0.04397 0.06 1.88340 0.13497 0.06 1.88340 0.04397 0.07 0.23659 1.88340 1.88340 0.04397 0.01 0.028659 0.028659 0.08 1.88340 0.04397 0.01 0.028659 0.028659 0.08 1.88340 0.04397 0.01 0.028659 0.028659 0.08 1.88340 0.04397 0.01 0.028659 0.028659 0.08 1.88340 0.04397 0.01 0.028659 0.04397 0.04 0.028659 0.04397 0.04 0.028659 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 0.04897 <		4	T				151161	253	635.90	0.120	30.47	0.04397	1.34	659670	7.21	1.98340	60.43	0.02391	0.73	0.01302	0.40
CLIL WB-14 4 50 1411134 1150550 1411020 1150550 1411020 1150550 1411020 150550 1411034 1150550 1411020 1150577 141032 150777 141032 150777 141032 15077 1410320 141020 150777 1410320 1415077 1410320 1415077 1410320 1415077 1410320 1415077 1410320 1415077 1410320 1410320 1410320 1410320 1410720 1410320		4	T			-	150550	253	656.45	0.124	31.45	0.04397	1.38	0.23659	7.44	1.98340	62.39	0.02391	0.75	0.01302	0.41
CIL WB-12 4 50 141020 116020 140020		4	П			_	150257	253	314.40	090'0	15.06	0.04397	0.66	0.23659	3.56	1.98340	29.88	0.02391	0.36	0.01302	0.20
C LL WB-15 4 50 14100831 1150005 1410084 150 1400837 0.017 3.40 0.014397 0.015 0.23659 0.23 0.23659 0.18 1.98340 C LL WB-16 4 50 1410081 14100024 1449867 538 97.64 0.014397 0.64 0.23659 2.35 1.98340 C LL WB-16 4 50 1410702 1449867 538 97.64 0.01397 0.64 0.23659 2.35 1.98340 C LL WB-16 4 50 1410604 1449806 538 116.88 0.023 0.04397 0.64 0.23659 2.86 1.98340 C LL WB-16 4 50 1410604 1449773 538 18.62.00 0.04397 0.97 0.23659 5.26 1.98340 C LL WB-17 4 50 1410640 1449773 538 16.30 0.04397 0.97 0.23659 5.26 1.98340 C LL WB-16 4 50 <td></td> <td>4</td> <td>T</td> <td></td> <td></td> <td>_</td> <td>150077</td> <td>202</td> <td>199.92</td> <td>0.038</td> <td>7.65</td> <td>0.04397</td> <td>0.34</td> <td>0.23659</td> <td>1.81</td> <td>1.98340</td> <td>15.17</td> <td>0.02391</td> <td>0.18</td> <td>0.01302</td> <td>0.10</td>		4	T			_	150077	202	199.92	0.038	7.65	0.04397	0.34	0.23659	1.81	1.98340	15.17	0.02391	0.18	0.01302	0.10
CLLWB-16 4 50 1410784 1149370 1410724 1149370 538 97.64 0.018 9.95 0.004397 0.44 0.28659 2.35 1.38340 0.018 0.021 0.02359 0.004397 0.44 0.28659 0.024340 0.02859 0.004397 0.44 0.28659 0.004397 0.44 0.28659 0.004397 0.44 0.28659 0.004397 0.49 0.28659 0.004397 0.49 0.28659 0.004397 0.49 0.28659 0.004397 0.49 0.02869 0.004397 0.004497 0.004397 0.004497 0.004397 0.004497 0.004397 0.004497 0.004397 0.004497 0.0	= = = = = = = = = = = = = = = = = = =	4 <	T	` '	1	-	150005	202	125 77	0.017	3.40	0.04397	0.15	0.23659	0.80	1.98340	6.74	0.02391	0.08	0.01302	0.04
C IL WB-16 4 50 1410702 1416604 149806 538 110.48 0.021 11.26 0.04397 0.49 0.23659 2.66 1.98340 C IL WB-17 4 50 1410604 1149749 140975 1149749 140077 141078 141078 141078 141078 141078 141078 141078 141078 141078 141078 141078 141078 <td< td=""><td></td><td>4</td><td>T</td><td></td><td></td><td></td><td>149857</td><td>538</td><td>97.64</td><td>0.018</td><td>9.95</td><td>0.04397</td><td>0.44</td><td>0.23659</td><td>2.35</td><td>1.98340</td><td>19.73</td><td>0.02391</td><td>0.24</td><td>0.01302</td><td>0.13</td></td<>		4	T				149857	538	97.64	0.018	9.95	0.04397	0.44	0.23659	2.35	1.98340	19.73	0.02391	0.24	0.01302	0.13
C IL WB-17 4 50 4100604 1149806 1410490 149773 538 118.68 0.022 12.09 0.04397 0.53 0.23659 2.86 1.98340 C IL WB-18 4 50 1410480 1148731 140278 144872 5.16.34 0.04397 0.59 0.23659 5.22 1.98340 C IL WB-20 4 50 141077 1410474 144973 144672 5.88 6.38.73 0.121 65.08 0.04397 2.86 0.23659 5.87 1.98340 C IL WB-20 4 50 140174 1449781 1446672 5.88 6.38.73 0.121 65.08 0.04397 2.86 0.23659 15.40 1.98340 C IL WB-20 4 50 1400478 1449672 5.38 119,00 0.023 12.13 0.04397 2.86 0.23659 1.98340 C IL WB-20 4 50 14002478 1449672 5.38 149 0.00 0.00 0.		4	t				149806	538	110.48	0.021	11.26	0.04397	0.49	0.23659	2.66	1.98340	22.33	0.02391	0.27	0.01302	0.15
CLL WB-18 4 50 1410480 1149773 1410275 1449749 1410275 1449749 1410275 1449749 1410274 1410373 1410275 1449749 1410274 1410373 1410373 1410373 1410274 1410373 1410373 1410373 1410275 1449749 1410274 1449749 1410274 1449749 1410274 1449773 1410275 1449749 1410274 1449773 1410275 1449779 1410275 1449779 1410275 1449779 1410275 1449779 1410275 1449779 1410275 1449779 1410275 1449779 1410275 1449779 1410275 1449779 1410275 1449779 1410277 1449		4	H				149773	538	118.68	0.022	12.09	0.04397	0.53	0.23659	2.86	1.98340	23.98	0.02391	0.29	0.01302	0.16
CLL WB-21 4 50 1440245 1489731 1489731 65.00 0.033 0.03397 2.86 0.23659 3.591 1.98340 CLL WB-21 4 50 14009478 14109781 1409672 538 119.00 0.023 12.13 0.04397 2.86 0.23659 15.40 1.98340 CLL WB-21 4 50 1409478 1449672 538 119.00 0.00 0.00 0.04397 0.53 0.23659 1.8340 CLL WB-21 4 50 1409289 1449672 2149 0.00 0.00 0.00 0.04397 0.05569 2.87 1.98340 CLL WB-21 4 50 1410726 14109276 14109672 2149 0.00 0.00 0.00 0.04397 0.05569 2.87 1.98340 A Linion-2 5 30 1410784 1410944 1410944 1410944 1410944 1410944 1410944 1410944 1410944 1410944 1410944		4	T				149749	538	216.34	0.041	22.04	0.04397	0.97	0.23659	5.22	1.98340	43.72	0.02391	0.53	0.01302	0.29
CIL WB-27 4 50 1410771 1159761 1436672 538 1400 0.0123 0.023 0.023653 0.023653 0.0334 1.38340 0.0334 0.0334 0.0334 0.03437 0.03 0.023653 0.023653 0.03434 1.38340 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.03434 0.0344 0.03		4 <	T	_	-	-	149731	538	162.00	0.031	16.51	0.04397	0.73	0.23659	3.91	1.98340	32.74	0.02391	0.39	0.01302	0.21
CIL WB-22 4 50 1409359 1409672 1409359 1409672 1409359 1409672 1409359 1409672 1409359 1409573 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 1409359 140934 140936 140936 140936 140936 140936 140936 140936 140939 140939 140939 141077 140039 141077 140036 <td></td> <td>1 4</td> <td>Ť</td> <td>_</td> <td>_</td> <td>-</td> <td>149672</td> <td>538</td> <td>119.00</td> <td>0.023</td> <td>12 13</td> <td>0.04397</td> <td>0.53</td> <td>0.23659</td> <td>287</td> <td>1 98340</td> <td>24.05</td> <td>0.02391</td> <td>92.0</td> <td>0.01302</td> <td>0.03</td>		1 4	Ť	_	_	-	149672	538	119.00	0.023	12 13	0.04397	0.53	0.23659	287	1 98340	24.05	0.02391	92.0	0.01302	0.03
A Union-2 5 25 1410724 1149464 149464 412 200.86 0.038 15.67 0.08632 1.35 0.27796 4.36 2.58054 A Union-2 5 30 1410794 1149464 1410941 1149769 412 200.86 0.038 15.67 0.07560 1.83 0.25170 6.42 2.47910 A Union-3 5 30 1410941 114976 1410941 114986 442 131.10 0.025 12.28 0.07560 0.60 0.25170 2.01 2.47910 C Union-5 5 35 1410941 1149866 1410991 1149868 492 131.10 0.025 12.28 0.06465 0.79 0.2811 2.91 2.28839 C Union-6 5 35 141097 1150170 141114 116024 492 201.30 0.038 18.76 0.06465 0.50 0.2811 2.04 2.28839 C Union-6 5 35 141077 1150170 141114 116024 492 201.30 0.017 8.55 0.06465 0.55 0.28811 2.04 2.28839 C Union-6 5 35 141077 1150170 141114 116024 249 24.70 0.017 8.55 0.06465 0.55 0.28811 2.04 2.28839 C Union-6 5 35 141077 1150170 141114 116024 249 24.70 0.017 8.55 0.06465 0.55 0.28811 2.04 2.28839 C Union-6 5 35 141077 1150170 141114 116024 249 24.70 0.017 8.55 0.06465 0.55 0.58 0.58 0.28811 2.04 2.28839 C Union-6 5 35 141077 1150170 141114 116024 24.70 0.017 8.55 0.06465 0.55 0.58 0.58 0.58 0.58 0.58 0.58 0.5		4	t	-	-	-	149672	2149	0.00	0.000	0.00	0.04397	0.00	0.23659	0.00	1.98340	0.00	0.02391	0.00	0.01302	0.00
A Union-2 5 30 1410794 1149664 1410911 1149769 412 326.67 0.062 25.49 0.07560 1.93 0.25170 6.42 2.47910 A Union-3 5 30 1410941 1149769 1410943 1410943 140886		2	Ť	-	-	-	149464	412	200.86	0.038	15.67	0.08632	1.35	0.27796	4.36	2.58054	40.45	0.05983	0.94	0.02460	0.39
A Union-6 5 35 1410991 1149769 1410943 1149886 412 102.14 0.019 7.37 0.07560 0.60 0.25170 2.01 2.47910 2.47910 CUnion-6 5 35 1410991 1149888 1411077 1150770 492 201.30 0.038 18.76 0.05465 1.21 0.23811 4.47 2.28839 CUnion-6 5 35 14110991 1149888 1411077 1150770 492 201.30 0.038 18.76 0.05465 0.55 0.23811 4.47 2.28839 CUnion-6 5 35 1411077 1150770 1411114 115024 492 201.30 0.017 8.55 0.05465 0.55 0.58811 2.04 2.28839		2	П		-	-	149769	412	326.67	0.062	25.49	0.07560	1.93	0.25170	6.42	2.47910	63.19	0.04825	1.23	0.02085	0.53
A Union-4 5 35 1410943 1149866 1410991 1149988 492 131.10 0.025 12.22 0.06465 0.79 0.23811 2.91 2.28839 C. Union-5 5 35 1410971 1150170 141114 1150254 492 201.30 0.038 18.76 0.06465 1.21 0.23811 4.47 2.28839 C. Union-6 5 35 141077 1150170 141114 1150254 492 201.30 0.017 8.55 0.06465 0.55 0.23811 2.04 2.28839 C. Union-6 5 35 141077 1150170 141114 1150254 492 91.79 0.017 8.55 0.06465 0.55 0.23811 2.04 2.28839 C. Union-6 5 35 141077 1150170 141114 1150254 492 91.79 0.017 8.55 0.06465 0.55 0.23811 2.04 2.28839		2	7	\rightarrow	\rightarrow	_	149866	412	102.14	0.019	7.97	0.07560	0.60	0.25170	2.01	2.47910	19.76	0.04825	0.38	0.02085	0.17
Culining 5 35 141107 11107 11107 14107 14107 1 12014 20 1.30 1.0045 1.51 0.23611 2.04 2.28839 20 1.30 0.017 8.55 0.0045 0.05 0.23811 2.04 2.28839 20 1.30 0.017 8.55 0.0045 0.05 0.03811 2.04 2.28839 20 1.30 0.017 8.55 0.0045 0.05 0.004		2	Ť				149988	492	131.10	0.025	12.22	0.06465	0.79	0.23811	2.91	2.28839	27.96	0.03909	0.48	0.01779	0.22
Uniform of the state of the sta		ט ע	Ť				150170	492	04.70	0.030	10.70 8 55	0.06465	0.55	0.23011	20.47	2.20039	10.57	0.03303	0.73	0.01779	0.33
7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ט ע	Ť				1150359	255	113 85	0.00	25.50	0.00465	0.35	0.23011	1 31	2.20033	10.07	0.03303	0.00	0.01779	0.10

Date: 11/15/2013 Time: 11:34 AM

PM-2.5 mi) EBs (g/hr)	_	0.11	60.0	0.09	0.11	0.69	0.36	0.32	0.32	0.05	0.16	0.04	0.05	0.04	0.04	0.13	0.0g	0.37	0.19	0.30	0.15	0.07	0.11	0.07	0.16	0.12	0.12	0.15	0.04	0.26	1.16	0.20	0.18	0.12	0.04	0.08	0.03	0.05	1.90	0.30	0.25	0.08	0.11	0.13	0.17	0.36	0.15	00
EFs (g/	Н	0.01779	0.02085	0.02460	0.02460	0.01779	0.02085	0.02460	0.02085	0.04401	0.03409	0.01779	0.01558	0.01558	0.01558	0.01558	0.01558	0.01779	0.02460	0.01779	0.02460	0.01538	0.01779	0.01779	0.01779	0.01779	0.01779	0.02460	0.01779	0.01779	0.01779	0.01779	0.01779	0.02085	0.02460	0.01779	0.02085	0.04401	0.01393	0.02460	0.01778	0.01779	0.01779	0.01779	0.01779	0.02460	0.01779	0.0
PM-10 ni) EBs (g/hr)	_	0.24	0.20	1.27	0.28	1.51	0.84	0.77	0.74	0.14	14.0	0.09	60:0	0.09	60.0	0.26	0.18	0.81	0.47	0.67	0.36	0.89	0.23	0.16	0.35	0.26	0.25	0.37	0.08	0.57	3.00	0.43	0.40	0.27	0.10	0.18	0.10	0.13	3.64	0.73	0.50	0.17	0.25	0.28	0.37	0.87	0.34	;
EFs (g/r	Н	0.03909	0.04825	0.03909	0.05983	0.03909	0.04825	0.05983	0.04825	0.11709	0.08601	0.03909	0.03214	0.03214	0.03214	0.03214	0.03214	0.03909	0.05983	0.03909	0.05983	0.03909	0.03909	0.03909	0.03909	0.03909	0.03909	0.05983	0.03909	0.03909	0.03909	0.03909	0.03909	0.04825	0.05983	0.03909	0.04625	0.11709	0.02664	0.05983	0.05983	0.03909	0.03909	0.03909	0.03909	0.05983	0.03909	20000
CO) EBs (g/hr)		14.33	10.34	74.12	12.00	88.39	43.24	33.37	38.07	4.48	15.89	2.10	6.25	5.80	5.83	17.43	11.84	47.51	20.13	39.17	15.58	52.16	13.56	9.26	20.27	15.47	21 87	16.02	4.85	33.48	148.75	25.11	23.25	14.02	4.51	10.69	3.04	4.05	277.98	31.27	24.10	9.84	14.69	16.60	21.43	37.46	19.70	>
EFs (g/mi	Н	2.28839	2.47910	2.28839	2.58054	2.28839	2.47910	2.58054	2.47910	3.75493	3.30555	2.20039	2.12703	2.12703	2.12703	2.12703	2.12703	2.28839	2.58054	2.28839	2.58054	2.28839	2.28839	2.28839	2.28839	2.28839	2.20039	2.58054	2.28839	2.28839	2.28839	2.28839	2.28839	3.04671	2.58054	2.28839	3.36555	3.75493	2.03332	2.58054	2.58054	2.28839	2.28839	2.28839	2.28839	2.58054	2.28839	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
NOX i) EBs (g/hr)		1.49	1.05	7.71	1.29	9.20	6.81	3.59	3.87	0.57	1.80	0.52	0.69	0.64	0.64	1.91	1.30	4.94	2.17	4.08	1.68	5.43	1.41	0.96	2.11	1.61	7.28	1.73	0.50	3.48	15.48	2.61	2.42	0.92	0.49	1.11	0.34	0.51	31.72	3.37	2.33	1.02	1.53	1.73	2.23	4.03	2.05	7.77
EFs (g/m	Н	0.23811	0.25170	0.277.96	0.27796	0.23811	0.25170	0.27796	0.25170	0.47652	0.38075	0.23011	0.23344	0.23344	0.23344	0.23344	0.23344	0.23811	0.27796	0.23811	0.27796	0.23811	0.23811	0.23811	0.23811	0.23811	0.23611	0.27796	0.23811	0.23811	0.23811	0.23811	0.23811	0.25170	0.27796	0.23811	0.38075	0.47652	0.23200	0.27796	0.27796	0.23811	0.23811	0.23811	0.23811	0.27796	0.23811	
VOC		0.40	0.32	20.32	0.40	2.50	1.32	1.12	1.16	0.20	0.60	0.13	0.16	0.15	0.15	0.46	0.37	1.34	0.67	1.11	0.52	1.47	0.38	0.26	0.57	0.44	0.42	0.54	0.14	0.95	4.20	0.71	99.0	0.30	0.15	0.30	0.11	0.18	6.75	1.05	0.72	0.28	0.41	0.47	0.61	1.25	0.56	
VC EFs (g/mi)	0.06465	0.06465	0.07560	0.06465	0.08632	0.06465	0.07560	0.08632	0.07560	0.17001	0.06466	0.06465	0.05590	0.05590	0.05590	0.05590	0.05590	0.06465	0.08632	0.06465	0.08632	0.06465	0.06465	0.06465	0.06465	0.06465	0.06465	0.08632	0.06465	0.06465	0.06465	0.06465	0.06465	0.07560	0.08632	0.06465	0.12689	0.17001	0.04941	0.08632	0.00465	0.06465	0.06465	0.06465	0.06465	0.08632	0.06465	
VMT (veh*mi/hr)	11.87	6.26	4.17	32.39	4.65	38.62	17.44	12.93	15.36	1.19	4.72	2.20	2.94	2.72	2.74	8.20	92.9	20.76	7.80	17.12	6.04	22.79	5.93	4.05	8.86	6.76	0.52	6.21	2.12	14.63	00.69	10.97	10.16	2.88	1.75	4.67	06.0	1.08	136.71	12.12	8,37	4.30	6.42	7.25	9.37	14.51	861	
Length (mi)	H	Н	0.016	0.068	0.020	+	0.049	╀	0.045	+	0.020	+	╀	Н	\dashv	+	0.039	╀	Н	+	+	0.051	\vdash	Н	\dashv	0.025	+	╀	0.008	0.041	0.040	0.059	0.055	0.030	0.020	0.054	0.047	0.014	0.073	0.020	0.021	0.010	0.014	0.016	0.0Z1	0.024	+	
c Length (m)	245.69	129.62	86.33	360.03	103.62	696.01	257.23	107.70	239.18	100.09	104.75	72.00	98.23	91.05	91.59	273.88	206.90	286.23	107.52	304.32	107.34	268.02	173.85	118.70	171.94	131.23	185.56	120.50	41.11	214.58	251.31	311.52	288.36	159.71	106.00	283.58	60.46	72.01	386.21	106.83	103.20	51.22	76.49	86.45	111.03	127.94	61.85	
PM Peal (velv/hr)	255	255	255	192	237	293	358	634	339	63	450	158	158	158	158	158	142	383	383	297	787	449	180	180	272	272	212	272	272		1611	186	186	187	87	87	6/	62	1869	#	089		443		443	599	735	
Y2	1150588	${}=$	_	95 1151218			98 1152195 77 1152406	H.	-	57 1150885	_	34 1152640				_	37 1151806	1_	${}=$	-	76 1151045			_	$\overline{}$	115 1149853		4	Н	_	.76 1149 <i>f</i> 28	-	Н	21 1149667 :02 1149673	-	86 1149728	_	-	${}=$	_	90 1149704	-	-		21 1150013	_		
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 | 1152623 1411993 152823 733 61.00 0.006 6.34 1152623 1411993 152823 733 61.00 0.009 6.28 1152623 1411993 152704 1733 60.00 0.009 6.28 1152623 1411993 152747 733 45.20 0.009 6.28 115274 1411903 152849 141.34 0.023 22.19 115284 141285 152849 813 114.33 0.023 22.19 1152849 141881 152849 601 144.83 0.037 22.18 1152849 141881 152761 601 144.83 0.037 22.18 1152849 141882 152761 834 21.52 0.044 8.67 115286 141081 152761 884 123.02 0.023 19.43 115278 14182 152771 882 10.28 0.023 19.43 11528 14188 | 1152623 1411995 152623 733 81.86 0.016 11.87 1152623 1411995 1152704 733 84.20 0.016 11.69 1152623 1411995 1152704 733 84.20 0.016 11.69 1152624 1411995 115274 733 84.20 0.016 11.69 115274 1411903 1152870 978 141.34 0.021 17.16 115281 141188 1152870 978 141.43 0.021 17.16 115282 141188 1152805 601 144.83 0.015 8.86 115284 141284 1152805 601 144.83 0.015 8.86 115289 141189 115260 601 144.83 0.015 8.86 115280 141182 115272 60.44 8.86 19.43 8.17 115280 141182 115274 884 123.02 0.015 8.16 115280 | 1152623 1411963 152823 733 81.00 0.016 11.54 1152623 1411963 152823 733 84.20 0.016 0.154 1152624 1411963 152824 733 84.20 0.016 0.169 1152704 1411963 152824 733 44.20 0.009 6.28 1152804 1411903 152824 878 144.34 0.023 22.19 1152805 1411883 152849 813 114.34 0.022 22.19 1152805 14118183 152849 813 114.34 0.021 22.19 1152806 1411881 152806 601 194.83 0.037 22.18 1152806 14112067 152806 601 194.83 0.037 22.18 1152806 14112067 152806 601 194.83 0.037 22.18 1152806 14112067 152806 601 194.83 0.037 22.18 1152806 14112067 152806 601 194.83 0.037 22.18 1152806 1411733 1152767 884 231.52 0.044 36.57 1152707 1412067 152806 884 123.62 0.028 33.08 1152708 1411738 1152734 882 202.61 0.038 33.08 115281 14110001 148888 1252 19.85 0.025 30.74 114988 1410006 148888 1252 129.63 0.016 0.48 115006 141108 1150340 257 30.38 0.016 0.48 115006 141108 1150340 257 30.38 0.025 0.017 4.39 115008 141108 1150340 257 30.38 0.025 0.015 0.48 115008 141108 1150340 257 30.38 0.025 0.015 0.048 115009 141108 1150340 51 115038 0.025 0.025 0.015 0.048 115009 141108 1150340 150380 0.021 1.00 115009 141108 1150340 150380 0.021 1.00 115009 141108 1150340 150380 0.021 1.00 115009 141108 115080 320 0.023 3.41 115018 141108 115080 320 0.023 1.41 115018 141108 115080 320 0.023 3.41 115018 141108 15080 320 0.035 0.035 115019 141108 15080 320 0.035 0.035 115019 141108 15080 320 0.035 0.035 115019 141108 15080 320 0.035 0.035 115019 141108 15080 320 0.035 0.035 115019 141108 15080 320 0.035 0.035 115019 141108 15080 320 0.035 | 1152623 1411983 152823 733 81.00 0.016 11.37 1152623 1411983 152823 733 84.20 0.016 11.69 1152623 1411983 152824 733 84.20 0.016 11.69 115263 1411983 152824 733 44.20 0.009 6.28 115284 1411981 152824 813 114.34 0.023 22.19 115286 1411883 152849 813 114.33 0.021 17.16 115284 1411941 152865 601 194.83 0.037 22.18 115284 1411941 152865 601 194.83 0.037 22.18 115285 1411883 152724 801 601 194.83 0.037 22.18 115284 1411941 152865 601 194.83 0.037 22.18 115285 1411881 152729 834 231.52 0.044 36.57 115286 1411081 15282 15282 0.044 36.57 115287 1411001 14988 1252 19.85 0.023 31.08 115274 141000 14988 1252 19.85 0.011 0.50 1150015 141102 1150186 31 81.02 0.016 0.47 115018 141108 150286 150018 31 85.80 116019 141108 150018 31 85.80 0.016 0.47 115018 141108 150348 257 10.038 31.08 115024 141108 150348 257 10.038 3.08 115034 141108 150348 257 10.038 3.08 115038 141108 150348 257 10.038 3.08 115038 141108 150348 257 10.038 3.01 115039 141108 150394 51
178 0.040 9.30 115039 141028 150080 233 141107 0.018 233 115131 141167 115180 233 14012 0.027 1.09 115131 141167 115180 233 14012 0.027 2.11 115131 141167 115180 233 14012 0.037 2.11 115180 141167 115180 233 14012 0.037 2.11 115180 141167 115180 233 14012 0.037 2.11 115180 141167 115180 233 14012 0.037 2.11 115180 141167 115180 233 14012 0.037 2.11 115181 141167 115180 233 14012 0.037 2.11 115181 141167 115180 233 14012 0.037 2.11 115180 141167 115180 233 14012 0.037 2.11 115180 141167 115180 2.33 14012 0.037 2.11 115180 141167 11518 | 1152623 1411963 152623 733 61.00 0.016 11.37 1152623 1411963 152623 733 61.00 0.016 0.169 1152623 1411963 152623 733 64.20 0.016 0.169 1152741 1411963 152624 733 44.20 0.009 6.28 1152869 1411883 152849 813 114.34 0.023 22.19 1152869 1411883 152849 813 114.34 0.023 22.19 1152869 1411883 152849 813 114.33 0.037 22.16 1152869 1411883 152626 601 194.83 0.037 22.16 1152869 1411881 152626 601 194.83 0.037 22.16 1152869 1411981 152626 601 194.83 0.037 22.16 1152869 1411084 152626 601 194.83 0.037 22.16 115279 14110207 15262 834 231.52 0.044 36.57 115279 1411020 15272 884 231.52 0.044 36.57 115279 1411020 15273 882 20.26 0.038 33.08 115279 1411020 142888 1252 19.85 0.025 30.74 115279 1411020 140381 1252 19.63 0.005 0.048 115279 1411020 140388 1252 19.85 0.011 0.50 1150019 141102 15019 31 85.00 0.016 0.48 1150019 141102 150348 257 130.38 0.025 0.041 0.50 115018 141102 150348 257 130.38 0.025 0.041 0.50 115018 141102 150348 257 130.38 0.027 0.048 0.021 115018 141102 150389 51 176.44 0.003 1.05 115018 141102 150394 15038 20.77 0.049 0.040 0.30 115019 141102 150394 15038 20.77 0.040 0.30 115110 141102 150394 15038 0.021 0.040 0.30 115110 141102 150394 15038 0.027 0.040 0.30 115110 141102 150399 15038 0.027 0.040 0.30 115110 141102 151102 130.33 100.38 2.007 0.040 0.30 115110 141102 151102 130.03 140.12 0.039 0.021 0.040 0.30 115110 1411102 115020 233 140.12 0.038 0.039 0.021 0.040 0.040 115110 1411103 115020 233 140.12 0.038 0.039 0.031 0.031 115110 1411103 115020 0.33 140.13 0.038 0.031 0.038 0 | 1152623 1411963 152623 733 61.00 0.016 11.37 1152623 1411963 152623 733 61.00 0.016 0.169 115269 1411963 152623 733 61.00 0.016 0.169 115269 1411963 152624 733 44.20 0.016 0.169 115289 1411963 152829 813 1413.4 0.023 22.19 115289 1411883 152849 813 1414.34 0.023 22.19 115289 1411883 152849 813 1414.33 0.027 17.16 115289 1411891 152605 601 194.83 0.037 22.16 115289 1411994 1152605 601 194.83 0.037 22.16 115289 1411094 152605 601 194.83 0.037 22.16 115289 1411095 152720 834 231.52 0.044 36.57 115289 1411096 152721 862 10.23 19.43 115274 1411006 149888 1256 16.20 0.016 0.050 115279 1411001 149888 1256 16.20 0.016 0.050 115289 1411001 149888 1256 16.20 0.016 0.048 1150054 1411008 150246 31 81.02 0.017 0.048 1150084 1410087 140088 257 10.038 33.08 1150084 141008 150348 257 10.038 0.027 0.048 1150089 141108 150240 257 10.038 0.021 0.041 115018 141008 150389 51 176.44 0.0034 1.72 115018 141008 150389 51 176.44 0.0034 1.72 115018 141008 150389 51 176.44 0.0034 1.72 115018 141008 150280 320 125.2 0.040 0.30 115019 141167 151180 233 10.23 10.07 0.040 0.30 115110 141167 151180 12502 233 140.12 0.028 0.021 115110 141180 150280 233 140.12 0.028 0.021 115110 141180 150280 233 140.12 0.038 0.021 115110 141180 152004 233 140.12 0.038 0.039 115100 141180 152004 233 140.12 0.038 0.039 115100 141180 152004 233 140.12 0.038 0.039 115100 141180 152004 233 140.97 0.038 0.021 115100 141180 150204 233 140.12 0.038 0.031 0.038 115100 141180 150204 233 140.13 0.031 0.031 0.031 115100 141180 150204 233 140 |

Link Input Data

ETC Year = % Project Growth RATE =

2015

TOTAL BUILD ETC VOC EMISSIONS BURDEN =	271	g/hr
TOTAL BUILD ETC NOX EMISSIONS BURDEN =	1,090	g/hr
TOTAL BUILD ETC CO EMISSIONS BURDEN =	6,728	g/hr
TOTAL BUILD ETC PM-10 EMISSIONS BURDEN =	109	g/hr
TOTAL BILL D FTC PM-25 FMISSIONS BURDEN =	57	a/hr

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ž:	Link Description			× :	Σ:	× :	72	PM Peak	Length	Length	IWA!	200	20	Z .	NOX	ט	00	E L	PM-10	E L	PM-2.5
Vo.		Source (5 mpl	incr)	-	-	_	(ft)	(veh/hr)	(H)	(mi)	(veh*mi/hr)	EFS (g/m)	EBS (g/hr)	EFS (g/mı)	EBS (g/nr)	EFS (g/mi)	EBS (g/hr)	EFS (g/m)	EBS (g/hr)	EFS (g/m)	EBS (g/hr
- 0	C IL Ramp EB-1	+	Ť	1409362 11	1149611 14	1409454 1	1149630	394	93.94	810.0	14.07	0.11582	0.81	0.53211	3.73	3.70866	26.00	0.04776	0.33	0.02936	0.21
ν cc	C IL Ramp EB-3	1 4	40 140	-	-	-	1149692	394	398.72	0.036	29.75	0.11582	3.45	0.53211	15.83	3.70866	110.34	0.04776	1.42	0.02936	0.87
4	Q IL Ramp EB-4	-	T	-			1149711	394	108.67	0.021	8.11	0.13749	1.11	0.53551	4.34	3.20337	25.98	0.05794	0.47	0.02975	0.24
2	C Howell EB-1	5 3		1410157 11	-	1410275 1	149749	303	123.97	0.023	7.11	0.14081	1.00	0.54775	3.90	3.35679	23.88	0.05668	0.40	0.02896	0.21
9	C Howell EB-2	5 3	П	1410275 11			1149773	303	245.18	0.046	14.07	0.14081	1.98	0.54775	7.71	3.35679	47.23	0.05668	0.80	0.02896	0.41
7	C Howell EB-3	5 3		10519 11			1149784	303	101.60	0.019	5.83	0.14081	0.82	0.54775	3.19	3.35679	19.57	0.05668	0.33	0.02896	0.17
8	C Howell EB-4	5			-		1149798	303	89.11	0.017	5.11	0.14081	0.72	0.54775	2.80	3.35679	17.16	0.05668	0.29	0.02896	0.15
6	C Howell EB-5	5 3		1410708 11	$\overline{}$	1410768 1	1149823	303	65.00	0.012	3.73	0.14081	0.53	0.54775	2.04	3.35679	12.52	0.05668	0.21	0.02896	0.11
10	Q Howell EB-6 2 Union	5 2	T		$\overline{}$	1410818 1	149849	303	56.36	0.011	3.23	0.16153	0.52	0.61976	2.00	3.55964	11.51	0.06870	0.22	0.03314	0.11
1	A Howell EB-7	5 3	T	1410818 11	1149849 14	1410858 1	1149871	662	45.65	600.0	5.72	0.14081	0.81	0.54775	3.14	3.35679	19.21	0.05668	0.32	0.02896	0.17
12	A Union NB-1	5	T		_		1149887	662	34.89	0.007	4.37	0.14081	0.62	0.54775	2.40	3.35679	14.68	0.05668	0.25	0.02896	0.13
13	A Union NB-2	5 3	Г	-	-		1149954	662	98.35	0.019	12.33	0.14081	1.74	0.54775	6.75	3.35679	41.39	0.05668	0.70	0.02896	0.36
14	A Union NB-3	5 3	П	1410961 11	_	1411010 1	1150018	662	80.60	0.015	10.11	0.14081	1.42	0.54775	5.54	3.35679	33.92	0.05668	0.57	0.02896	0.29
15	A Union NB-4	5 3	П		_		1150060	662	47.89	600.0	00.9	0.14081	0.85	0.54775	3.29	3.35679	20.15	0.05668	0.34	0.02896	0.17
16	C Union NB-5	5 3	П	-	-		1150174	662	123.69	0.023	15.51	0.14081	2.18	0.54775	8.49	3.35679	52.06	0.05668	0.88	0.02896	0.45
17	C Union NB-6	5 3		1411081 11	1150174 14	1411114 1	1150254	662	86.54	0.016	10.85	0.14081	1.53	0.54775	5.94	3.35679	36.42	0.05668	0.61	0.02896	0.31
18	C Union NB-7	5 3		$\overline{}$		-	1150362	662	116.25	0.022	14.57	0.14081	2.05	0.54775	7.98	3.35679	48.92	0.05668	0.83	0.02896	0.42
19	C Union NB-8	5 3			⊢	1411248 1	1150589	662	244.56	0.046	30.66	0.14081	4.32	0.54775	16.80	3.35679	102.93	0.05668	1.74	0.02896	0.89
20	C Union NB-9	5 3				1411303 1	1150724	662	145.77	0.028	18.28	0.14081	2.57	0.54775	10.01	3.35679	61.35	0.05668	1.04	0.02896	0.53
21	C Union NB-10			_			1150804	637	84.12	0.016	10.15	0.14081	1.43	0.54775	5.56	3.35679	34.07	0.05668	0.58	0.02896	0.29
22	Q Union NB-11 2 Broad				-		1150904	637	107.70	0.020	12.99	0.16153	2.10	0.61976	8.05	3.55964	46.25	0.06870	0.89	0.03314	0.43
23	A Union NB-12	5 3					1151190	829	308.25	0.058	48.40	0.14081	6.81	0.54775	26.51	3.35679	162.46	0.05668	2.74	0.02896	1.40
24	Q Union NB-13 2 East			-	\neg		1151308	829	127.39	0.024	20.00	0.16153	3.23	0.61976	12.40	3.55964	71.20	0.06870	1.37	0.03314	99.0
22	A Union NB-14	4		1411532 11	\rightarrow		1151387	749	85.23	0.016	12.09	0.14081	1.70	0.54775	6.62	3.35679	40.59	0.05668	69.0	0.02896	0.35
56	A Union NB-15	4	T				1151829	749	474.29	0.090	67.28	0.14081	9.47	0.54775	36.85	3.35679	225.85	0.05668	3.81	0.02896	1.95
17.	Q Union NB-16 2 Charlotte	4	T	_	_		1151922	749	100.09	0.019	14.20	0.16153	2.29	0.61976	8.80	3.55964	50.54	0.06870	0.98	0.03314	0.47
87 8	A Union NB-17	+	Ť				1151986	418	71.11	0.013	5.63	0.14081	0.79	0.54775	3.08	3.35679	18.90	0.05668	0.32	0.02896	0.16
87 8	A Union NB-18	4	Ť	1411804 113			1152112	418	136.31	0.026	10.79	0.14081	1.52	0.54775	5.91	3.35679	36.22	0.05668	0.61	0.02896	0.31
9 3	C Union NB-19	+	1		_	- 1-	1152254	814	153.77	0.029	12.17	0.14081	1./1	0.54775	0.07	3.35679	40.86	0.05668	0.09	0.02896	0.35
3	C Union NB-20	4	T				152406	418	164.16	0.031	13.00	0.14081	1.83	0.54775	7.12	3.35679	43.62	0.05668	0.74	0.02896	0.38
32 66	Q Union NB-21 2 University	+	T	1417977 11	1152406 14	1412017	1152506	814	107.70	0.020	8.53	0.16153	55.1	0.61976	5.28	3.55964	30.35	0.06870	0.59	0.03314	0.28
3 25	A Union SB-1	2 10	T	_			1151941	561	66.85	0.043	7.10	0.14081	001	0.54775	3 89	3.35679	23.84	0.05668	0.70	0.02890	0.40
35	A Union SB-2	-		11750 11			1151716	561	242.71	0.046	25.79	0.14081	3.63	0.54775	14.13	3.35679	86.56	0.05668	1.46	0.02896	0.75
36	C Union SB-3	5 3	П			1411638 1	1151646	561	73.08	0.014	7.76	0.14081	1.09	0.54775	4.25	3.35679	26.07	0.05668	0.44	0.02896	0.22
37	C Union SB-4	5 3			$\overline{}$		1151497	561	158.48	0.030	16.84	0.14081	2.37	0.54775	9.22	3.35679	56.52	0.05668	0.95	0.02896	0.49
38	Q Union SB-5 2 East	4		1411584 11	\rightarrow		1151396	561	108.63	0.021	11.54	0.16153	1.86	0.61976	7.15	3.55964	41.09	0.06870	0.79	0.03314	0.38
39	A Union SB-6	+	T		_		1151326	490	79.18	0.015	7.35	0.14081	1.03	0.54775	4.02	3.35679	24.67	0.05668	0.42	0.02896	0.21
9 :	A Union SB-7	1	T	_	_		1151189	490	146.89	0.028	13.63	0.14081	1.92	0.54775	7.47	3.35679	45.76	0.05668	0.77	0.02896	0.39
41	A Union SB-8	υ u	Ť	1411454 11	1151189 14	1411428 1	1151097	490	95.60	0.018	8.87	0.14081	1.25	0.54775	4.86	3.35679	29.78	0.05668	0.50	0.02896	0.26
43	A Union SB-10	╁	T	-	+-		1150919	576	73.16	0.023	7.98	0.10133	1.70	0.54775	4.37	3.35679	26.20	0.00670	0.75	0.03314	0.37
44	A Union SB-11	ŀ	T		+-		1150732	576	201.48	0.038	21 98	0.14081	3.09	0.54775	12.04	3 35679	73.78	0.05668	1.25	0.02896	0.64
45	C Union SB-12	L	T				1150370	633	390.33	0.074	46.80	0.14081	6:29	0.54775	25.63	3.35679	157.08	0.05668	2.65	0.02896	1.36
46	C Union SB-13	5	T		1150370 14	1411026 1	1150100	633	291.17	0.055	34.91	0.14081	4.92	0.54775	19.12	3.35679	117.18	0.05668	1.98	0.02896	1.01
47	C Union SB-14	5 3	T		_		1150033	633	76.06	0.014	9.12	0.14081	1.28	0.54775	4.99	3.35679	30.61	0.05668	0.52	0.02896	0.26
48	C Union SB-15			_	1150033 14	1410963 1	149985	633	55.07	0.010	09.9	0.14081	0.93	0.54775	3.62	3.35679	22.16	0.05668	0.37	0.02896	0.19
49	Q Union SB-16 to Howell	5 2			1149985 14		1149902	633	118.09	0.022	14.16	0.16153	2.29	0.61976	8.77	3.55964	50.39	0.06870	0.97	0.03314	0.47
20	A Union SB-17	5 3	30 141	\rightarrow	$\overline{}$		1149884	506	34.13	900.0	3.27	0.14081	0.46	0.54775	1.79	3.35679	10.98	0.05668	0.19	0.02896	0.09
21	A Howell WB-1	5				1410770 1	1149845	909	89.00	0.017	8.53	0.14081	1.20	0.54775	4.67	3.35679	28.63	0.05668	0.48	0.02896	0.25
52	C Howell WB-2	2		1410770 11	1149845 14	1410695 1149820	149820	206	79.06	0.015	7.58	0.14081	1.07	0.54775	4.15	3.35679	25.43	0.05668	0.43	0.02896	0.22

Date: 11/15/2013 Time: 12:17 PM

-2.5	EBs (g/hr)	0.26	0.79	0.50	2.76	1.25	0.15	0.23	0.64	0.34	0.38	0.21	0.26	0.25	0.23	0.23	0.26	0.24	0.36	0.51	0.18	0.21	0.24	0.09	0.00	0.10	0.11	0.19	0.21	0.02	90.0	0.03	0.01	0.02	0.41	0.53	0.08	0.08	0.09	0.03	0.04	0.20	0.10	0.07	2.42	0.36	0.26	0.32	0.13	0.20
PM-2.5	EFs (g/mi)	0.02896	0.02896	0.02896	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02936	0.02975	0.03152	95850.0	0.03856	0.03856	0.03856	0.03856	938200	0.03856	0.03856	0.04505	0.03856	0.04505	0.02896	0.02896	0.02836	0.03314	0.03314	0.03314	0.02896	0.02896	0.03314	0.02896	0.02009	0.02896	0.03314	0.02896	0.02896	0.02896
10	EBs (g/hr)	0.50	1.54	0.97	4.49	2.03	0.24	0.37	1.04	0.56	0.62	0.34	0.43	0.41	0.38	0.38	0.42	0.38	0.58	0.32	0.29	0.40	0.50	0.19	0.31	0.21	0.23	0.39	0.44	0.09	0.13	90.0	0.02	0.05	0.80	1.04	0.15	0.17	0.18	0.09	0.07	0.39	0.21	0.13	3.97	0.70	0.54	0.63	0.25	0.38
PM-10	EFs (g/mi)	0.05668	0.05668	0.05668	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.04776	0.05794	0.06681	0.08023	0.08023	0.08023	0.08023	0.08023	0.08023	0.08023	0.08023	0.09742	0.08023	0.09742	0.05668	0.05668	0.05668	0.06870	0.06870	0.06870	0.05668	0.05668	0.06870	0.05668	0.03303	0.05668	0.06870	0.05668	0.05668	0.05668
0	EBs (g/hr)	29.62	33.39	57.73	349.04	157.47	18.40	28.47	81.01	43.10	48.04	26.02	33.06	31.75	29.50	29.36	32.85	29.71	53.21	63.99	22.72	22.36	23.89	9.93	15.96	11.04	11.74	20.35	22.77	1.92	6.51	3.01	3.49	2.52	47.38	61.32	8.98	8.80	9.52	3.20	4.16	22.86	10.74	7.70	328.95	41.63	27.94	37.07	14.93	22 GE
CO	EFs (g/mi)	3.35679	3.35679	3.35679	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.70866	3.20337	3.18311	4.15084	4.15084	4.15084	4.15084	4.15084	4.15084	4.15084	4.15084	4.62689	4.15084	4.62689	3.35679	3.35679	3.35679	3.55964	3.55964	3.55964	3.35679	3.35679	3.55964	3.35679	4 15084	3.35679	3.55964	3.35679	3.35679	2 25670
×	EBs (g/hr)	4.83	14.90	9.42	50.08	22.59	3.40	4.09	11.62	6.18	68.9	3.73	4.74	4.56	4.23	4.21	4.71	4.26	6.50	9.18	3.26	3.74	4.12	1.69	9 7.1	1.87	1.99	3.46	3.87	0.33	1.11	0.54	0.59	0.45	7.73	10.01	1.46	1.53	1.66	080	0.68	3.73	1.87	1.26	58.03	6.79	4.87	6.05	2.44	3 70
0	_	0.54775	0.54775	0.54775	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53211	0.53551	0.54860	0.70490	0.70490	0.70490	0.70490	0.70490	0.70490	0.70490	0.70490	0.83212	0.70490	0.83212	0.54775	0.54775	0.54775	0.61976	0.61976	0.61976	0.54775	0.54775	0.61976	0.54775	0.48225	0.54775	0.61976	0.54775	0.54775	0 54775
	jr J	1.24	3.83	2.42	10.90	4.92	0.57	0.89	2.53	1.35	1.50	0.81	1.03	0.99	0.92	0.92	1.03	0.93	1.41	2:00	0.71	96.0	1.17	0.46	0.32	0.51	0.54	0.94	1.05	60:0	0:30	0.15	0.05	0.13	1.99	2.57	0.38	0.40	0.43	0.24	0.17	96.0	0.49	0.32	11.72	1.75	1.27	1.55	0.63	0.95
0	<u> </u>	0.14081	0.14081	0.14081	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.11582	0.13749	0.15547	0.19190	0.19190	0.19190	0.19190	0.19190	0.19190	0.19190	0.19190	0.23484	0.19190	0.23484	0.14081	0.14081	0.14081	0.16153	0.16153	0.16153	0.14081	0.14081	0.16153	0.14081	0.09744	0.14081	0.16153	0.14081	0.14081	0.14081
VMT	(veh*mi/hr)	8.82	27.21	17.20	94.12	42.46	4.96	7.68	21.84	11.62	12.95	7.01	8.91	8.56	7.95	7.92	8.86	8.01	12.21	17.25	6.13	6.98	7.50	2.39	3.84	2.66	2.83	4.90	5.49	0.46	1.57	0.65	0.27	0.55	14.11	3.3.1	2.67	2.47	2.68	129	1.24	6.81	3.02	2.29	120.32	12.40	7.85	11.04	4.45	6.75
Length	+	0.017	0.054	0.022	0.121	0.023	0.013	0.021	0.059	0.031	0.035	0.019	0.024	0.023	0.020	0.020	0.022	0.020	0.030	0.043	0.015	0.017	0.019	0.014	0.010	0.016	0.017	0.029	0.033	0.015	0.052	0.022	0.014	0.027	0.038	0.049	0.007	0.007	0.007	600.0	600.0	0.049	0.022	0.016	0.073	0.023	0.015	0.028	0.011	0.017
Length	(#)	92.07	283.93	116.71	638.73	119.00	70.21 90.48	108.67	309.20	164.51	183.36	99.30	126.18	121.20	103.95	103.48	115.76	104.69	159.62	225.50	90.08	91.24	98.08	75.66	52.00 121.56	84.05	89.44	155.00	173.44	81.61	276.07	114.49	71.78	143.92	200.86	259.98	38.05	35.17	38.08	49.04	47.13	258.68	114.59	87.09	384.10	122.61	77.62	147.61	59.46	90.21
PM Peak	(veh/hr)	206	506	778	778	1884	373	373	373	373	373	373	373	373	404	404	404	404	404	404	404	404	404	167	167	167	167	167	167	98	30	30	20 20	20	371	371	371	371	371	139	139	139	139	139	1654	534	534	395	395	395
72	-	-	1149783	-	7	_	1151989	-	Ľ	1152654	$\overline{}$	\rightarrow	_	1153138	-	-	-	-	1152649	÷	1152185	-	\rightarrow	-	1152539	-	-	-	1152047	+	-	-	1151357	-	${}^{\scriptscriptstyleullet}$	1149706	-	1149823	1149856		-	_	${}$	_	1149816	-		_	1149829	1149906
X2	-	-	33 1410321	-	1409478	-	39 1411825	-	-	90 1411820	_	_	-	37 1411617	-			25 1411743	-	_	35 1411824	-	-	-	56 1411653	-	-	37 1411605	1411566	-	-	-	57 1411309	50 1411254	Н	34 141 0889 16 141 0903	-	1410896	1410877	1410892	-	-	${} \rightarrow$	-	36 1409518	_	-	-		1410051
۲۱	-	-	304 1149806	÷	114 1149731	-	794 1151922	+	_	833 115249	${}^{\scriptscriptstyle{+}}$	-	_	384 1153037 347 1153138	+	-	Н	-	+	Ŧ,	321 1152265	7	ì	534 1152741	+	+	-	-	305 1152216	-	╌	${}^{-}$	113 1151425 390 1151357	÷	\vdash	389 1149464	_	905 1149789	396 1149823	390 1149803	-		H	-	574 1149436	-	-	-		1149829
1X X1	-	T	5 1410321	T	П	40 140947	0 1411//3	40 1411825	Ė	1411	40 1411820		T	0 1411684	40 1411617	П	П	0 1411699	40 1411792		0 1411821	30 1411824		1	20 1411600	t		П	1411605	20 1411548		T	20 1411413	T	30 1410726	30 1410794	T	25 1410905	25 1410896		T	П	25 1410784	T	5 1409574		П	30 1410255		30 1410098
MOVES Speed	ce (5 m	+	5 30	$\frac{1}{1}$	4 4		4 4	+	-	4			-	4 4	+	H			4 4	-	4	H	4	+	2 2	-	L	5 2	5 20	$\frac{1}{1}$			2 2		H	2 4	$\frac{1}{1}$	5 2	5 2	2 2	L	H	H	+	ۍ 4	5 30	5 2	_	4	
M			petniit	100	1	2,	-2	4 6	4-	-5	9-	2-1	80,00	10	2 -	-2	-3	4-4	ې م	-7	φ-	6-	.10									st		ad	3-1	3-2	4	3-5	3-6	2	1.3	4-4	3-5	9-6			llewc			_
Link Description		C Howell WB-3	C Howell WB-4 O Howell WR-5 2 Chest	C Howell WB-6	C IL Ramp WB-'	C IL Ramp WB-2	A IL N Ramp NB-7	A IL N Ramp NB-3	C IL N Ramp NB-4	C IL N Ramp NB-5	C IL N Ramp NB-6	C IL N Ramp NB-7	C IL N Ramp NB-8	CILN Ramp NB-9	C IL N Ramp SB-1	C IL N Ramp SB-2	C IL N Ramp SB-3	C IL N Ramp SB-4	CILN Ramp SB-5	C IL N Ramp SB-7	C IL N Ramp SB-8	C IL N Ramp SB-9	Q IL N Ramp SB-10	A Pitkin-1	A Pitkin-2 A Pitkin-3	A Pitkin-4	A Pitkin-5	C Pitkin-6	C Pitkin-7	A Pitkin-9	C Pitkin-10	Q Pitkin-11 2 East	A Pitkin-12 A Pitkin-13	Q Pitkin-14 2 Broad	A Union Spur NB-	C Union Spur NB-2	A Union Spur NB-4	Q Union Spur NB-5	Q Union Spur NB-6	A Union Spur SB-2	C Union Spur SB-3	C Union Spur SB-4	Q Union Spur SB-5	A Union Spur SB-	C Clinton NB 2	C Monroe N-6	Q Monroe N-7 2 Howel	A Monroe N-8	A Chestnut N-1	A Chestruit N-2
Link	No.	53	75	╀	22	28	66 90	61	62	63	64	65	99	/9	69	20	71	72	74	75	92	77	78	79	81 83	82	83	84	82	87	88	68	90	92	93	8 %	96	26	86	100	101	102	103	104	105	107	Ш	109	110	111

Link	Link Description	MOVES	Speed	×	۲,	X2	72	PM Peak	Lenath	Lenath	VMT	NOC	Ď	Ž	XON	٥	00	PM	PM-10	PM	2.5
No.			(5 mph incr)	€	Œ	£	(#	(veh/hr)	Ê	(m)	(veh*mi/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	/mi) EBs (g/hr)						
113	C Chestnut S-1	2		1 409991	1150018 1	1410002 1	1149970	488	49.24	600.0	4.55	0.14081	0.64	0.54775	2.49	3.35679	15.28	0.05668	0.26	0.02896	0.13
114	C Chestnut S-2	2		Н	С	Н	1149921	488	51.55	0.010	4.76	0.14081	0.67	0.54775	2.61	3.35679	15.99	0.05668	0.27	0.02896	0.14
115	C Chestnut S-3	2		Н	Н	1410052 1	1149856	488	73.36	0.014	6.78	0.14081	0.95	0.54775	3.71	3.35679	22.76	0.05668	0.38	0.02896	0.20
116	Q Chestnut S-4 2 Howell	2	25 14	\dashv	\vdash	_	1149782	488	95.27	0.018	8.81	0.16153	1.42	0.61976	5.46	3.55964	31.34	0.06870	09:0	0.03314	0.29
117	A Monroe S-1	2		-	_	_	1149543	556	385.13	0.073	40.56	0.14081	5.71	0.54775	22.21	3.35679	136.14	0.05668	2.30	0.02896	1.17
118	C Chestnut Ramp 1	2	1	-			1149965	1106	52.17	0.010	10.93	0.14081	1.54	0.54775	5.99	3.35679	36.69	0.05668	0.62	0.02896	0.32
119	C Chestnut Ramp 2	2	٦	_			1149914	1106	53.76	0.010	11.26	0.14081	1.59	0.54775	6.17	3.35679	37.80	0.05668	0.64	0.02896	0.33
120	C Chestnut Ramp 3	2		_	-	-	1149845	1106	79.76	0.015	16.71	0.14081	2.35	0.54775	9.15	3.35679	56.08	0.05668	0.95	0.02896	0.48
121	Q Chestnut Ramp-4	2		-	ш	-	1149786	1106	59.14	0.011	12.39	0.16153	2.00	0.61976	7.68	3.55964	44.09	0.06870	0.85	0.03314	0.41
122	A Chestnut Ramp 5	2		1410050 1	-	1410011 1	1149741	1106	59.55	0.011	12.47	0.14081	1.76	0.54775	6.83	3.35679	41.87	0.05668	0.71	0.02896	0.36
123	A Chestnut Ramp 6	2		1410011 1	1149741 1	1409934 1	1149733	1106	77.41	0.015	16.22	0.14081	2.28	0.54775	8.88	3.35679	54.43	0.05668	0.92	0.02896	0.47
124	A Chestnut Ramp 7	2		1409934 1	1149733 1	1409725 1	1149714	1106	209.86	0.040	43.96	0.14081	6.19	0.54775	24.08	3.35679	147.56	0.05668	2.49	0.02896	1.27
125	C Chestnut Ramp 8	2		1409725 1	1149714 1	1409476 1	1149692	1106	249.97	0.047	52.36	0.12241	6.41	0.50783	26.59	3.08424	161.49	0.04635	2.43	0.02477	1.30
126	A Broad WB-1	2		-	1150963 1	1411251 1	1151010	105	122.38	0.023	2.43	0.16153	0.39	0.61976	1.51	3.55964	8.66	0.06870	0.17	0.03314	0.08
127	A Broad WB-2	2		1411251 1	1151010 1	1411136 1	1151062	115	126.21	0.024	2.75	0.14081	0.39	0.54775	1.51	3.35679	9.23	0.05668	0.16	0.02896	0.08
128	C Broad EB-3	2		1411128 1	1151036 1	1411228 1	1150998	381	106.98	0.020	7.72	0.14081	1.09	0.54775	4.23	3.35679	25.91	0.05668	0.44	0.02896	0.22
129	Q Broad EB-4 Bridge	2		1411228 1	1150998 1	1411322 1	1150960	391	101.39	0.019	7.51	0.23484	1.76	0.83212	6.25	4.62689	34.74	0.09742	0.73	0.04505	0.34
130	A Broad EB-5	2		1411322 1	1150960 1	1411357 1	1150946	391	37.70	0.007	2.79	0.19190	0.54	0.70490	1.97	4.15084	11.59	0.08023	0.22	0.03856	0.11
131	A East WB-2	2	Ī	1411594 1	1151345 1	1411534 1	1151365	388	63.25	0.012	4.65	0.19190	0.89	0.70490	3.28	4.15084	19.29	0.08023	0.37	0.03856	0.18
132	Q East WB-3 Bridge	2	T	-	-	1411435 1	1151398	388	104.36	0.020	7.67	0.16153	1.24	0.61976	4.75	3.55964	27.30	0.06870	0.53	0.03314	0.25
133	A East WB-4	2		1411435 1	1151398 1	1411370 1	1151419	393	68.31	0.013	5.08	0.14081	0.72	0.54775	2.78	3.35679	17.07	0.05668	0.29	0.02896	0.15
134	A East EB-1	2	T	1411364 1	1151400 1	1411426 1	1151380	491	65.15	0.012	90.9	0.16153	0.98	0.61976	3.75	3.55964	21.56	0.06870	0.42	0.03314	0.20
135	O East EB-2 Bridge	2	Ī	1411426 1	1151380 1	1411475 1	1151363	491	51.87	0.010	4.82	0.19190	0.93	0.70490	3.40	4.15084	20.02	0.08023	0.39	0.03856	0.19
136	A East EB-3	2	T	-	-		1151322	812	125.87	0.024	19.36	0.14081	2.73	0.54775	10.60	3,35679	64.98	0.05668	1.10	0.02896	0.56
137	Q Charlotte WB-2	2		-			1151948	7.1	42.54	0.008	0.57	0.16153	60:0	0.61976	0.35	3.55964	2.04	0.06870	0.04	0.03314	0.02
138	A Charlotte WB-3	2		-	-		1151991	78	117.18	0.022	1.73	0.14081	0.24	0.54775	0.95	3.35679	5.81	0.05668	0.10	0.02896	0.05
139	A Charlotte WB-4	2	Ī	+	-	-	1152046	78	150.42	0.028	2.22	0.14081	0.31	0.54775	1.22	3.35679	7.46	0.05668	0.13	0.02896	0.06
140	A Charlotte WB-5	2	Ī	1411582 1	1152046 1	1411518 1	1152072	78	80.69	0.013	1.02	0.14081	0.14	0.54775	0.56	3.35679	3.43	0.05668	90.0	0.02896	0.03
141	A Charlotte EB-1	2		_	-		1152035	186	68.15	0.013	2.40	0.14081	0.34	0.54775	1.32	3.35679	8.06	0.05668	0.14	0.02896	0.07
142	A Charlotte EB-2	2		1411576 1	1152035 1	1411646 1	1152007	186	75.39	0.014	2.66	0.14081	0.37	0.54775	1.45	3.35679	8.92	0.05668	0.15	0.02896	0.08
143	Q Charlotte EB-3	2	Г		1152007 1	1411717 1	1151979	186	76.32	0.014	2.69	0.16153	0.43	0.61976	1.67	3.55964	9.57	0.06870	0.18	0.03314	0.09
144	A Charlotte EB-4	2		Н	1151979 1	-	1151935	29	117.55	0.022	1.49	0.14081	0.21	0.54775	0.82	3.35679	5.01	0.05668	0.08	0.02896	0.04
145	A Charlotte EB-5	2		ш	1151935 1	_	1151919	29	42.15	0.008	0.53	0.14081	0.08	0.54775	0.29	3.35679	1.80	0.05668	0.03	0.02896	0.02
146	A University NB-1	2	T	1412065 1	1152544 1	1411993 1	1152583	442	81.88	0.016	6.85	0.14081	0.97	0.54775	3.75	3.35679	23.01	0.05668	0.39	0.02896	0.20
147	A University NB-2	2	30 17	\rightarrow	\rightarrow	\rightarrow	1152623	442	50.00	600.0	4.19	0.14081	0.59	0.54775	2.29	3.35679	14.05	0.05668	0.24	0.02896	0.12
4	A University NB-3	υL	Ť	1411963 1	_	_	1152704	442	84.20	9.00	7.05	0.14081	0.99	0.54775	3.86	3.35679	23.66	0.05668	0.40	0.02896	0.20
4	Q University NB-4 z Main	o r	Ť	-	+ 1	-	1152/4/	4442	45.22	6000	3.78	0.10133	0.01	0.01970	2.35	3.33904	13.40	0.00070	0.20	0.03314	0.13
150	A University NB-5	2	1	+	-	-	1152859	7.29	114.34	0.022	15.79	0.14081	2.22	0.54775	8.65	3.35679	52.99	0.05668	0.89	0.02896	0.46
151	A University NB-6	2	T	-	-	-	1152970	7.29	119.77	0.023	16.54	0.10811	1.79	0.49048	8.11	2.86633	47.40	0.03889	0.64	0.02209	0.37
152	Q University SB-6 2 Main	2	1	-	-	-	1152849	718	111.43	0.021	15.15	0.31766	4.81	1.03770	15.72	5.32956	80.76	0.13071	1.98	0.05713	0.87
153	A University SB-7	2		-	_	~	1152791	486	61.35	0.012	5.65	0.14081	0.80	0.54775	3.09	3.35679	18.96	0.05668	0.32	0.02896	0.16
_	A University SB-8	2	1	-	-	_	1152605	486	194.83	0.037	17.93	0.14081	2.53	0.54775	9.82	3.35679	60.20	0.05668	1.02	0.02896	0.52
4	Q University SB-9 2 Union	2	25 14	-	-	4	1152548	486	77.83	0.015	7.16	0.16153	1.16	0.61976	4.44	3.55964	25.50	0.06870	0.49	0.03314	0.24
156	A University SB-10	2		_	-	_	1152523	594	67.78	0.013	7.63	0.14081	1.07	0.54775	4.18	3.35679	25.60	0.05668	0.43	0.02896	0.22
157	A Main WB-2	2		1411954 1	1152836 1	1411733 1	1152767	688	231.52	0.044	30.17	0.16153	4.87	0.61976	18.70	3.55964	107.39	0.06870	2.07	0.03314	1.00
158	Q Main WB-3 2 Pitkin	2		1411733 1	\rightarrow	1411616 1	1152729	688	123.02	0.023	16.03	0.16153	2.59	0.61976	9.93	3.55964	57.06	0.06870	1.10	0.03314	0.53
159	A Main WB-4	2	30 17				1152703	406	93.68	0.018	7.20	0.14081	1.01	0.54775	3.95	3.35679	24.18	0.05668	0.41	0.02896	0.21
160	A Main EB-1	2	7	_			1152734	683	202.61	0.038	26.21	0.14081	3.69	0.54775	14.36	3.35679	87.98	0.05668	1.49	0.02896	0.76
161	Q Main EB-2 2 University	2	25 14	-	_		1152771	683	119.85	0.023	15.50	0.16153	2.50	0.61976	9.61	3.55964	55.19	0.06870	1.07	0.03314	0.51
162	A Main EB-3	2		1411852 1	1152771 1	1412006 1	1152821	891	161.91	0.031	27.32	0.14081	3.85	0.54775	14.97	3.35679	91.72	0.05668	1.55	0.02896	0.79

Inner Loop Corridor (PIN 4940.T7)
MESOSCALE ANALYSIS
Build Alternative ETC+10

Inner Lo MESOSC	Inner Loop Corridor (PIN 4940.T7) MESOSCALE ANALYSIS													TOTAL BUIL	TOTAL BUILD ETC VOC EMISSIONS BURDEN	EMISSIONS	BURDEN =		1	184	g/hr
Build Alt	Build Alternative ETC+10	ETC+10 Year =	= -		2025									TOTAL BUIL	TOTAL BUILD ETC NO _x EMISSIONS BURDEN	EMISSIONS	BURDEN=		9	653	g/hr
		ETC+10 Growth FACTOR	wth FACTOF	"	1.05									TOTAL BUIL	TOTAL BUILD ETC CO EMISSIONS BURDEN =	MISSIONS	3URDEN =		5,	5,637	g/hr
Link Input Data	ıt Data													TOTAL BUIL	TOTAL BUILD ETC PM-10 EMISSIONS BURDEN =	0 EMISSION	S BURDEN	=	1	103	g/hr
													_	TOTAL BUIL	TOTAL BUILD ETC PM-2.5 EMISSIONS BURDEN =	:5 EMISSIOI	NS BURDEN			47	g/hr
(ALL DATA	ALL DATA (except yellow fields) ON THIS PAGE IS FORMULA GENERATED - enter data on ETC input page	PAGE IS FOR	Seed Seve	ERATED - e	enter data or	n ETC input p	oage)	Joseph Ma	d though	dpono	TWA	JON	ر	Ž	>ON		5		DM-10	DM-2 5	2.5
Š Š				ŧ €	: €	ŧ £	¥ (£)	(veh/hr)	(E)	(mi)	(veh*mi/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/r	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)
-	C IL Ramp EB-1	Н	П	-	-	-	1149630	424	93.94	0.018	7.54	0.07275	0.55	0.30377		2.98891	-	Н	\perp	0.02187	0.17
2 0	C IL Ramp EB-2	4	40 1409	1409454 114	1149630 14	1409653 11	1149655	424	200.56	0.038	16.11	0.07275	1.17	0.30377	4.89	2.98891	48.14	0.03993	0.64	0.02187	0.35
o 4	O IL Ramp EB-3	+	Ť	_	_	_	1149092	424	108.67	0.070	32.02 8 73	0.07273	0.76	0.30377	2.73	2.36691	21.30	0.03993	0.44	0.02187	0.70
2 1	C Howell EB-1	+	T		-	-	1149749	323	123.97	0.023	7.58	0.08926	0.68	0.30392	2.30	2.59923	19.71	0.04971	0.38	0.02230	0.17
9	C Howell EB-2	\vdash	T	-	-	-	1149773	323	245.18	0.046	15.00	0.08926	1.34	0.30392	4.56	2.59923	38.98	0.04971	0.75	0.02226	0.33
7	C Howell EB-3	Н	П	1410519 114	-	-	1149784	323	101.60	0.019	6.22	0.08926	0.55	0.30392	1.89	2.59923	16.15	0.04971	0.31	0.02226	0.14
∞ (C Howell EB-4	\dashv	\top	_	-	-	1149798	323	89.11	0.017	5.45	0.08926	0.49	0.30392	1.66	2.59923	14.17	0.04971	0.27	0.02226	0.12
o 5	O Howell EB-5	יי ט	30 1410	1410708 114	1149798 14	1410768 11	1149823	323	65.00	0.012	3.98	0.08926	0.35	0.30392	1.21	2.59923	10.34	0.04971	0.20	0.02226	0.09
1 2	A Howell EB-7	╁	T		-	_	1149871	712	45.65	0.00	6.16	0.08926	0.55	0.30392	1.87	2.59923	16.00	0.04971	0.31	0.02226	0.14
12	A Union NB-1	H	T		-	-	1149887	712	34.89	0.007	4.70	0.08926	0.42	0.30392	1.43	2.59923	12.23	0.04971	0.23	0.02226	0.10
13	A Union NB-2	+	┪	ω.		-	1149954	712	98.35	0.019	13.26	0.08926	1.18	0.30392	4.03	2.59923	34.47	0.04971	0.66	0.02226	0.30
14	A Union NB-3	Ω u	30 1410	1410961 114	1149954 14	1411010 11	1150018	712	80.60	0.015	78.0L 6.46	0.08926	0.97	0.30392	3.30	2.59923	16.78	0.04971	0.54	0.02226	0.24
16	C Union NB-5	+	T				1150174	712	123.69	0.023	16.68	0.08926	1.49	0.30392	5.07	2.59923	43.35	0.04971	0.83	0.02226	0.37
17	C Union NB-6	┝	t		Ļ.	-	1150254	712	86.54	0.016	11.67	0.08926	1.04	0.30392	3.55	2.59923	30.33	0.04971	0.58	0.02226	0.26
18	C Union NB-7	Н	П	+	$\boldsymbol{\vdash}$	_	1150362	712	116.25	0.022	15.68	0.08926	1.40	0.30392	4.76	2.59923	40.74	0.04971	0.78	0.02226	0.35
19	C Union NB-8	4	30 141	$\overline{}$	\rightarrow	$\overline{}$	1150589	712	244.56	0.046	32.98	0.08926	2.94	0.30392	10.02	2.59923	85.72	0.04971	1.64	0.02226	0.73
20	C Union NB-9	Ω u	T	1411248 115	1150589 14	1411303 11	1150724	717	145.77	0.028	19.66	0.08926	1.75	0.30392	233	2.59923	51.09	0.04971	0.98	0.02226	0.04
22	O Hipon NB-11 2 Broad	+	Ť		-		1150904	687	107 70	0.00	14.01	0.00320	1.43	0.33740	4.73	2.33323	38.00	0.0437	0.0	0.02220	0.37
23 23	A Union NB-12	+	T		_	_	1151190	893	308.25	0.058	52.13	0.08926	4.65	0.30392	15.84	2.59923	135.51	0.04971		0.02226	1.16
24	Q Union NB-13 2 East	5 2	П		ш	ш	1151308	893	127.39	0.024	21.55	0.10224	2.20	0.33740	7.27	2.71153	58.42	0.06135	Ц	0.02607	0.56
25	A Union NB-14	\dashv	T		\rightarrow	_	1151387	808	85.23	0.016	13.06	0.08926	1.17	0.30392	3.97	2.59923	33.95	0.04971		0.02226	0.29
26	A Union NB-15	ω u	30 141	1411564 118	1151387 14	1411736 11	1151829	608	474.29	0.090	72.67	0.08926	6.49	0.30392	22.09	2.59923	188.89	0.04971	3.61	0.02226	1.62
+	A Union NB-17	+	T		_	_	1151986	448	71.11	0.013	6.03	0.08926	0.54	0.30392	1.83	2.59923	15.68	0.06133		0.02226	0.13
53	A Union NB-18	H	T				1152112	448	136.31	0.026	11.57	0.08926	1.03	0.30392	3.52	2.59923	30.06	0.04971	-	0.02226	0.26
30	C Union NB-19	Н	Н		-	-	1152254	448	153.77	0.029	13.05	0.08926	1.16	0.30392	3.97	2.59923	33.91	0.04971	0.65	0.02226	0.29
+	C Union NB-20	יט ע	30 141	1411915 116	1152254 14	1411977 11	1152406	448	164.16	0.031	13.93	0.08926	1.24	0.30392	4.23	2.59923	36.20	0.04971	0.69	0.02226	0.31
3 8	A Union NB-22	+	T		-	1.0	1152728	323	239.18	0.045	14.63	0.08926	1.31	0.30392	4.45	2.59923	38.03	0.04971	0.73	0.02226	0.33
34	A Union SB-1	H	T	_	-	-	1151941	602	66.85	0.013	7.62	0.08926	0.68	0.30392	2.32	2.59923	19.81	0.04971	0.38	0.02226	0.17
35	A Union SB-2	+	T		_	$\overline{}$	1151716	602	242.71	0.046	27.67	0.08926	2.47	0.30392	8.41	2.59923	71.93	0.04971	1.38	0.02226	0.62
37	C Union SB-3	ט ע	30 141	1411639 118	11516/16 12	1411584 11	1151040	200	158.48	0.014	0.33	0.08926	1.61	0.30392	5.33	2.59923	46.07	0.04971	0.4	0.02226	0.19
88	Q Union SB-5 2 East	H	T	+-	+-	_	1151396	602	108.63	0.021	12.39	0.10224	1.27	0.33740	4.18	2.71153	33.58	0.06135		0.02607	0.32
39	A Union SB-6	H	П	4	\vdash	$\boldsymbol{\vdash}$	1151326	530	79.18	0.015	7.95	0.08926	0.71	0.30392	2.42	2.59923	20.66	0.04971		0.02226	0.18
40	A Union SB-7	+	T		_		1151189	530	146.89	0.028	14.75	0.08926	1.32	0.30392	4.48	2.59923	38.33	0.04971	4	0.02226	0.33
41	A Union SB-8	+	Ť	1411454 118	1151189 14	1411428 11	1151097	530	95.60	0.018	9.60	0.08926	0.86	0.30392	2.92	2.59923	24.94	0.04971	0.48	0.02226	0.21
42	A Union SB-10	ט וכ	30 141	_		_	1150919	621	73.16	0.023	8.61	0.10224	0.77	0.33740	2.62	2.71133	22.33	0.06133	1	0.02807	0.19
4	A Union SB-11	+	t		+	-	1150732	621	201.48	0.038	23.70	0.08926	2.12	0.30392	7.20	2.59923	61.59	0.04971	-	0.02226	0.53
45	C Union SB-12	H	H	1411281 115	-	1411135 11	1150370	683	390.33	0.074	50.49	0.08926	4.51	0.30392	15.35	2.59923	131.24	0.04971	2.51	0.02226	1.12
46	C Union SB-13	+	T	_	\rightarrow	_	1150100	683	291.17	0.055	37.66	0.08926	3.36	0.30392	11.45	2.59923	97.90	0.04971	1.87	0.02226	0.84
47	C Union SB-14	+	30 141	1411026 118	1150100 14	1410990 11	1150033	683	76.06	0.014	9.84	0.08926	0.88	0.30392	2.99	2.59923	25.57	0.04971	0.49	0.02226	0.22
╀	O Union SB-16 to Howell	. LC	T		_		1149902	683	118.09	0.010	15.28	0.06926	1.56	0.33740	5.15	2.39923	41.42	0.0437	0.33	0.02228	0.10
20	A Union SB-17	H	T				1149884	546	34.13	0.006	3.53	0.08926	0.32	0.30392	1.07	2.59923	9.17	0.04971		0.02226	0.08
21	A Howell WB-1	_	T	1410850 114		1410770 11	1149845	546	89.00	0.017	9.20	0.08926	0.82	0.30392	2.80	2.59923	23.92	0.04971		0.02226	0.20
25	C Howell WB-2	2		1410770 1149845		1410695 11	1149820	546	90.62	0.015	8.18	0.08926	0.73	0.30392	2.48	2.59923	21.25	0.04971	0.41	0.02226	0.18

Date: 11/15/2013 Time: 12:17 PM

Lin	Link Description	MOVES Speed	L		7.1	X2	Y2	PM Peak	Length	Length	VMT	×	VOC	_	NOX	J	00	PIN	PM-10	PM-2.5	2.5
o N		Source (mp	_	(t)	(t)	(ft)	(t)	(veh/hr)	(m)	(mj)	(veh*mi/hr)	EFs (g/mi)	EBs (g/hr)								
113	C Chestnut S-1	5 30	Ħ	\dashv	_	\rightarrow	1149970	525	49.24	600.0	4.90	0.08926	0.44	0.30392	1.49	2.59923	12.73	0.04971	0.24	0.02226	0.11
114	C Chestnut S-2	5 3	7	\rightarrow	\rightarrow	_	1149921	525	51.55	0.010	5.13	0.08926	0.46	0.30392	1.56	2.59923	13.32	0.04971	0.25	0.02226	0.11
115	C Chestnut S-3	2	30 1410	-	\rightarrow	\rightarrow	1149856	525	73.36	0.014	7.29	0.08926	0.65	0.30392	2.22	2.59923	18.96	0.04971	0.36	0.02226	0.16
116	Q Chestnut S-4 2 Howell	+	T	-	_	-	1149782	525	95.27	0.018	9.47	0.10224	0.97	0.33740	3.20	2.71153	25.69	0.06135	0.58	0.02607	0.25
117	A Monroe S-1	+	†	-		_	1149543	596	385.13	0.073	43.47	0.08926	3.88	0.30392	13.21	2.59923	113.00	0.04971	2.16	0.02226	0.97
21.	C Chestnut Ramp 1	+	Ť	_	_		1149965	1193	52.17	0.010	11.79	0.08926	1.05	0.30392	3.58	2.59923	30.64	0.04971	0.59	0.02226	0.26
119	C Chestnut Ramp 2	+	30 1406	_	_	-	1149914	1193	53.76	0.010	12.15	0.08926	1.08	0.30392	3.69	2.59923	31.57	0.04971	09:0	0.02226	0.27
120	C Chestnut Ramp 3	5	7			_	1149845	1193	79.76	0.015	18.02	0.08926	1.61	0.30392	5.48	2.59923	46.84	0.04971	0.90	0.02226	0.40
121	Q Chestnut Ramp-4	5 2	1	\rightarrow	\rightarrow	_	1149786	1193	59.14	0.011	13.36	0.10224	1.37	0.33740	4.51	2.71153	36.23	0.06135	0.82	0.02607	0.35
122	A Chestnut Ramp 5	5 3	T	1410050 114	1149786 14	1410011 1	1149741	1193	59.55	0.011	13.45	0.08926	1.20	0.30392	4.09	2.59923	34.97	0.04971	0.67	0.02226	0.30
123	A Chestnut Ramp 6	5 3	30 1410			1409934 1	1149733	1193	77.41	0.015	17.49	0.08926	1.56	0.30392	5.32	2.59923	45.46	0.04971	0.87	0.02226	0.39
124	A Chestnut Ramp 7	5 3	Т	1409934 114	1149733 14	1409725 1	1149714	1193	209.86	0.040	47.42	0.08926	4.23	0.30392	14.41	2.59923	123.25	0.04971	2.36	0.02226	1.06
125	C Chestnut Ramp 8	5 3		1409725 114	1149714 14	1409476 1	1149692	1193	249.97	0.047	56.48	0.07665	4.33	0.28588	16.15	2.39623	135.34	0.04038	2.28	0.01903	1.07
126	A Broad WB-1	5 2		1411364 115	1150963 14	1411251 1	1151010	115	122.38	0.023	2.67	0.10224	0.27	0.33740	06:0	2.71153	7.23	0.06135	0.16	0.02607	0.07
127	A Broad WB-2	5 3		1411251 115	1151010 14	1411136 1	1151062	125	126.21	0.024	2.99	0.08926	0.27	0.30392	0.91	2.59923	7.77	0.04971	0.15	0.02226	0.07
128	C Broad EB-3	5 3	Н	1411128 115	1151036 14	1411228 1	1150998	411	106.98	0.020	8.33	0.08926	0.74	0.30392	2.53	2.59923	21.64	0.04971	0.41	0.02226	0.19
129	Q Broad EB-4 Bridge	5	T	1411228 115	1150998 14	-	1150960	421	101.39	0.019	8.08	0.15034	1.22	0.45716	3.70	3.53008	28.54	0.08790	0.71	0.03591	0.29
130	A Broad EB-5	5 2	Н	1411322 115	1150960 14	1411357 1	1150946	421	37.70	0.007	3.01	0.12260	0.37	0.38572	1.16	3.19129	9.59	0.07169	0.22	0.03035	60.0
131	A East WB-2	5 2	T		1151345 14	1411534 1	1151365	418	63.25	0.012	5.01	0.12260	0.61	0.38572	1.93	3.19129	15.98	0.07169	0.36	0.03035	0.15
132	Q East WB-3 Bridge	5 2	25 1411	1411534 115		-	1151398	418	104.36	0.020	8.26	0.10224	0.84	0.33740	2.79	2.71153	22.40	0.06135	0.51	0.02607	0.22
133	A East WB-4	5	Г	1411435 115	1151398 14	1411370 1	1151419	423	68.31	0.013	5.47	0.08926	0.49	0.30392	1.66	2.59923	14.22	0.04971	0.27	0.02226	0.12
134	A East EB-1	5 2		1411364 115	1151400 14	1411426 1	1151380	531	65.15	0.012	6.55	0.10224	0.67	0.33740	2.21	2.71153	17.76	0.06135	0.40	0.02607	0.17
135	Q East EB-2 Bridge	5 2	Г	1411426 115	1151380 14	1411475 1	1151363	531	51.87	0.010	5.22	0.12260	0.64	0.38572	2.01	3.19129	16.65	0.07169	0.37	0.03035	0.16
136	A East EB-3	5 3	T	1411475 115	1151363 14	1411594 1	1151322	874	125.87	0.024	20.83	0.08926	1.86	0.30392	6.33	2.59923	54.15	0.04971	1.04	0.02226	0.46
137	Q Charlotte WB-2	5 2	25 1411	_		1411831 1	1151948	81	42.54	0.008	0.65	0.10224	0.07	0.33740	0.22	2.71153	1.77	0.06135	0.04	0.02607	0.02
138	A Charlotte WB-3	5 3	Т	_	_	_	1151991	88	117.18	0.022	1.95	0.08926	0.17	0.30392	0.59	2.59923	5.08	0.04971	0.10	0.02226	0.04
139	A Charlotte WB-4	5 3	Т	1411722 115	1151991 14	1411582 1	1152046	88	150.42	0.028	2.51	0.08926	0.22	0.30392	92'0	2.59923	6.52	0.04971	0.12	0.02226	90.0
140	A Charlotte WB-5	5 3	7	_	_	1411518 1	1152072	88	80.69	0.013	1.15	0.08926	0.10	0.30392	0.35	2.59923	2.99	0.04971	90.0	0.02226	0.03
141	A Charlotte EB-1	5 3	30 1411	1411513 115	1152061 14	1411576 1	1152035	196	68.15	0.013	2.53	0.08926	0.23	0.30392	0.77	2.59923	6.58	0.04971	0.13	0.02226	90.0
142	A Charlotte EB-2	5 3			1152035 14	1411646 1	1152007	196	75.39	0.014	2.80	0.08926	0.25	0.30392	0.85	2.59923	7.27	0.04971	0.14	0.02226	90.0
143	Q Charlotte EB-3	5 2	25 1411	_		_	1151979	196	76.32	0.014	2.83	0.10224	0.29	0.33740	96.0	2.71153	7.68	0.06135	0.17	0.02607	0.07
144	A Charlotte EB-4	5 3	7	_	_	_	1151935	77	117.55	0.022	1.71	0.08926	0.15	0.30392	0.52	2.59923	4.46	0.04971	0.09	0.02226	0.04
145	A Charlotte EB-5	+	1	\rightarrow		_	1151919	77	42.15	0.008	0.61	0.08926	0.05	0.30392	0.19	2.59923	1.60	0.04971	0.03	0.02226	0.01
146	A University NB-1	2	1	_	_	_	1152583	473	81.88	0.016	7.34	0.08926	0.65	0.30392	2.23	2.59923	19.07	0.04971	0.36	0.02226	0.16
147	A University NB-2	5 30	\dagger	1411993 115	1152583 14	_	1152623	473	20.00	0.009	4.48	0.08926	0.40	0.30392	1.36	2.59923	11.64	0.04971	0.22	0.02226	0.10
149	O University NB-4 2 Main	2 2	25 1411	_	-	1411926 1	1152747	473	45.22	0.000	4.05	0.10224	0.07	0.33740	1.37	2.71153	10.98	0.06135	0.25	0.02520	0.11
150	A University NB-5	5	T			-	1152859	789	114.34	0.022	17.09	0.08926	1.53	0.30392	5.19	2.59923	44.41	0.04971	0.85	0.02226	0.38
151	A University NB-6	5 4	t	1411903 115	1152859 14	1411858 1	1152970	789	119.77	0.023	17.90	0.06668	1.19	0.27879	4.99	2.22685	39.86	0.03335	09:0	0.01675	0:30
152	Q University SB-6 2 Main	5 1	10 1411	_	1152953 14	1411863 1	1152849	775	111.43	0.021	16.36	0.20262	3.31	0.57358	9:38	3.96591	64.86	0.11954	1.96	0.04636	92'0
153	A University SB-7	5 3	П	1411863 115	1152849 14	1411883 1	1152791	526	61.35	0.012	6.11	0.08926	0.55	0.30392	1.86	2.59923	15.89	0.04971	0:30	0.02226	0.14
154	A University SB-8	5 3	30 1411	-	1152791 14	1411941 1	1152605	526	194.83	0.037	19.41	0.08926	1.73	0.30392	2.90	2.59923	50.45	0.04971	96.0	0.02226	0.43
155	Q University SB-9 2 Union	5 2		_			1152548	526	77.83	0.015	7.75	0.10224	0.79	0.33740	2.62	2.71153	21.02	0.06135	0.48	0.02607	0.20
156	A University SB-10	5 3	ī	_	1152548 14	1412057 1	1152523	643	67.78	0.013	8.25	0.08926	0.74	0.30392	2.51	2.59923	21.45	0.04971	0.41	0.02226	0.18
157	A Main WB-2	5 2	25 1411	1411954 115	1152836 14	1411733 1	1152767	740	231.52	0.044	32.45	0.10224	3.32	0.33740	10.95	2.71153	87.98	0.06135	1.99	0.02607	0.85
158	Q Main WB-3 2 Pitkin	5 2	H	_	_	${} =$	1152729	740	123.02	0.023	17.24	0.10224	1.76	0.33740	5.82	2.71153	46.75	0.06135	1.06	0.02607	0.45
159	A Main WB-4	5 3		\rightarrow	\rightarrow	\rightarrow	1152703	436	93.68	0.018	7.74	0.08926	0.69	0.30392	2.35	2.59923	20.11	0.04971	0.38	0.02226	0.17
160	A Main EB-1	5 3	30 1411	1411543 115			1152734	733	202.61	0.038	28.13	0.08926	2.51	0.30392	8.55	2.59923	73.11	0.04971	1.40	0.02226	0.63
161	Q Main EB-2 2 University	5 2	T	1411738 115	1152734 14	1411852 1	1152771	733	119.85	0.023	16.64	0.10224	1.70	0.33740	5.61	2.71153	45.12	0.06135	1.02	0.02607	0.43
162	A Main EB-3	5 3		1852 11	52771 14	1411852 1152771 1412006 1152821	152821	961	161.91	0.031	29.47	0.08926	2.63	0.30392	8.96	2.59923	76.60	0.04971	1.46	0.02226	99.0

Inner Loop Corridor (PIN 4940.T7) MESOSCALE ANALYSIS

Inner L MESOS	Inner Loop Corridor (PIN 4940.T7) MESOSCALE ANALYSIS			l										TOTAL BUIL	D ETC VOC	TOTAL BUILD ETC VOC EMISSIONS BURDEN =	3URDEN =		7		g/hr
Build A	Build Alternative ETC+20	ETC+20 Year =	ETC+20 Year =		2035									TOTAL BUIL	D ETC NOX I	TOTAL BUILD ETC NOX EMISSIONS BURDEN =	SURDEN =		5.	575	g/hr
Link Inp	Link Input Data	E1 C+20 Gro	Will PACIO											TOTAL BUIL	D ETC PM-10	TOTAL BUILD ETC PM-10 EMISSIONS BURDEN	BURDEN =		5 =		g/hr
														TOTAL BUIL	D ETC PM-2.	TOTAL BUILD ETC PM-2.5 EMISSIONS BURDEN =	S BURDEN =		4		g/hr
(ALL DATA	TA (except yellow fields) ON THIS PAGE IS	PAGE IS FOR	FORMULA GENE	ATED - er	nter data on	V2	oage)	Jood Ma	d pood	dhodh	TW/)))		Ŷ	2	5		PM-10	10	PM-2 5	2.5
Š	TORGOOD TORGO			£ £	£	ž £	(#)	(veh/hr)	(m)	m)	(veh*mi/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)	EFs (g/mi)	EBs (g/hr)
1	C IL Ramp EB-1	4 ,	Н	н	_	н	149630	454	93.94	0.018	8.08	0.05334	0.43	0.23583	1.90	2.05894	16.63	0.03290	0.27	0.01558	0.13
7 0	C IL Ramp EB-2	+	7	_	\rightarrow	1409653 11	1149655	454	200.56	0.038	17.25	0.05334	0.92	0.23583	4.07	2.05894	35.51	0.03290	0.57	0.01558	0.27
0 4	O IL Ramp EB-4	4 4	30 141	1409653 114	1149695 14	-	1149692	424	108 67	0.070	94.20	0.05534	0.65	0.23503	9.03	2.03094	70.39	0.03230	0.44	0.01550	0.33
1 12	C Howell EB-1	ł	t	_	-	+	1149749	349	123.97	0.023	8.19	0.07560	0.62	0.25170	2.06	2.47910	20.32	0.04825	0.40	0.02085	0.10
9	C Howell EB-2	H	Ħ	È	+	-	149773	349	245.18	0.046	16.21	0.07560	1.23	0.25170	4.08	2.47910	40.18	0.04825	0.78	0.02085	0.34
7	C Howell EB-3	Н	П	_		$\boldsymbol{\vdash}$	1149784	349	101.60	0.019	6.72	0.07560	0.51	0.25170	1.69	2.47910	16.65	0.04825	0.32	0.02085	0.14
ω 0	C Howell EB-4	2	30 141	\rightarrow	_	-	1149798	349	89.11	0.017	5.89	0.07560	0.45	0.25170	1.48	2.47910	14.60	0.04825	0.28	0.02085	0.12
10	Q Howell EB-62 Union	+	Ť	1410768 114	1149823 14	1410818 11	1149849	349	56.36	0.012	3.73	0.07380	0.32	0.27796	1.04	2.58054	9.61	0.05983	0.22	0.02460	0.09
11	A Howell EB-7	H	30 141	-			1149871	768	45.65	600.0	6.64	0.07560	0.50	0.25170	1.67	2.47910	16.46	0.04825	0.32	0.02085	0.14
12	A Union NB-1	H	H		-	-	1149887	892	34.89	200.0	5.07	0.07560	0.38	0.25170	1.28	2.47910	12.58	0.04825	0.24	0.02085	0.11
13	A Union NB-2	ט ע	t	1410889 114	114988/ 14	1410961 11	1149954	768	80.35	0.019	14.31	0.07560	1.08	0.25170	3.60	2.47910	35.47	0.04825	0.69	0.02085	0.30
15	A Union NB-4	╁	30 141	10	+-	-	1150060	768	47.89	600.0	6.97	0.07560	0.53	0.25170	1.75	2.47910	17.27	0.04825	0.34	0.02085	0.15
16	C Union NB-5	H	T	_	-	-	1150174	768	123.69	0.023	17.99	0.07560	1.36	0.25170	4.53	2.47910	44.60	0.04825	0.87	0.02085	0.38
17	C Union NB-6	Н	Н	1411081 115	ш	1411114 11	1150254	768	86.54	0.016	12.59	0.07560	0.95	0.25170	3.17	2.47910	31.21	0.04825	0.61	0.02085	0.26
18	C Union NB-7	+	T	_			1150362	768	116.25	0.022	16.91	0.07560	1.28	0.25170	4.26	2.47910	41.92	0.04825	0.82	0.02085	0.35
16 02	C Union NB-8	Ω u	30 141	-	-		1150589	76.0	244.56	0.046	35.57	0.07560	2.69	0.25170	8.95	2.47910	88.19	0.04825	1.72	0.02085	0.74
21	C Union NB-10	+	t	1411303 115	1150724 14	1411329 11	1150804	738	84.12	0.020	11.76	0.07560	0.89	0.25170	2.96	2.47910	29.15	0.04825	0.57	0.02085	0.25
22	Q Union NB-11 2 Broad	H	T	-			1150904	738	107.70	0.020	15.05	0.08632	1.30	0.27796	4.18	2.58054	38.85	0.05983	0.90	0.02460	0.37
23	A Union NB-12	Н	30 141	${}^{\scriptscriptstylelack}$	$\boldsymbol{\vdash}$	$\boldsymbol{\vdash}$	1151190	896	308.25	0.058	56.22	0.07560	4.25	0.25170	14.15	2.47910	139.38	0.04825	2.71	0.02085	1.17
24	Q Union NB-13 2 East	5 .	T	1411484 115	1151190 14	1411532 11	1151308	963	127.39	0.024	23.23	0.08632	2.01	0.27796	6.46	2.58054	59.96	0.05983	1.39	0.02460	0.57
27 %	A Union NB-14	+	30 141	. I =	~ ~	1411204 11	1151387	870	85.23	0.0.0	78 15	0.07560	1.00	0.25170	3.53	2.47910	34.62	0.04825	3.77	0.02085	1.63
27	Q Union NB-16 2 Charlotte	+	T	-	_		1151922	870	100.09	0.019	16.49	0.08632	1.42	0.27796	4.58	2.58054	42.56	0.05983	0.99	0.02460	0.41
28	A Union NB-17	2	T	-	-	1411804 11	1151986	483	71.11	0.013	6.51	0.07560	0.49	0.25170	1.64	2.47910	16.13	0.04825	0.31	0.02085	0.14
29	A Union NB-18	Н	Ħ	_	_	_	1152112	483	136.31	0.026	12.47	0.07560	0.94	0.25170	3.14	2.47910	30.91	0.04825	09.0	0.02085	0.26
31	C Union NB-20	ט ע	Ť	1411856 115.	1152754 14	1411915 11	1152254	483	153.77	0.029	15.07	0.07560	1.06	0.25170	3.78	2.47910	34.87	0.04825	0.68	0.02085	0.29
╀	Q Union NB-21 2 University	+	t				1152506	483	107.70	0.020	9.85	0.08632	0.85	0.27796	2.74	2.58054	25.42	0.05983	0.59	0.02460	0.24
33	A Union NB-22	Н	30 141	-	${} =$	ш	1152728	348	239.18	0.045	15.76	0.07560	1.19	0.25170	3.97	2.47910	39.08	0.04825	92.0	0.02085	0.33
ξ, 15 15 15 15 15 15 15 15 15 15 15 15 15 1	A Union SB-1	מע	Ť	1411//5 115	1152003 14	1411/50 11	1151941	299	06.85	0.013	8.26	0.07560	0.62	0.25170	2.08	2.47910	20.47	0.04825	0.40	0.02085	0.17
38	C Union SB-3	+	T	`	- 1/0	-	1151646	652	73.08	0.040	9.02	0.07560	0.68	0.25170	2.27	2.47910	22.37	0.04825	0.44	0.02085	0.19
37	C Union SB-4	Н	П	-	40.	-	1151497	652	158.48	0.030	19.57	0.07560	1.48	0.25170	4.93	2.47910	48.52	0.04825	0.94	0.02085	0.41
200	Q Union SB-5 Z East	מע	25 141	1411584 115	115149/ 14	1411507 11	1151396	299	70.18	0.021	13.47	0.08632	1.16	0.27796	3.73	2.58054	34.62	0.05983	0.80	0.02460	0.33
8 9	A Union SB-7	ł	t	-	-	1	1151189	570	146.89	0.028	15.86	0.07560	1.20	0.25170	3.99	2.47910	39.31	0.04825	0.77	0.02085	0.33
41	A Union SB-8		Ė	1411454 115	⊢	1411428 11	1151097	929	95.60	0.018	10.32	0.07560	0.78	0.25170	2.60	2.47910	25.59	0.04825	0.50	0.02085	0.22
42	Q Union SB-9 2 Broad	\dashv	Ħ	_	-	-	1150987	029	118.85	0.023	12.83	0.08632	1.11	0.27796	3.57	2.58054	33.11	0.05983	0.77	0.02460	0.32
43	A Union SB-10	+	†	7	-	1411356 11	1150919	1/9	73.16	0.014	9.30	0.07560	0.70	0.25170	2.34	2.47910	23.05	0.04825	0.45	0.02085	0.19
44	A Union SB-11	+	30 141	1411356 115	1150919 14	1411281 11	1150/32	1/9	300 33	0.038	25.60	0.07560	1.94	0.25170	6.44 13 64	2.47910	13/13/1	0.04825	7.24	0.02085	0.53
46	C Union SB-13	2 2	T	_	_	_	1150100	733	291.17	0.055	40.42	0.07560	3.06	0.25170	10.17	2.47910	100.21	0.04825	1.95	0.02085	0.84
47	C Union SB-14	H	Ť	1411026 115	1150100 14	1410990 11	1150033	733	90.92	0.014	10.56	0.07560	0.80	0.25170	2.66	2.47910	26.18	0.04825	0.51	0.02085	0.22
48	C Union SB-15	2	Ħ	_	_	_	1149985	733	55.07	0.010	7.65	0.07560	0.58	0.25170	1.92	2.47910	18.95	0.04825	0.37	0.02085	0.16
49	Q Union SB-16 to Howell	+	30 141	1410963 1149985 1410879 1149902		1410879 11	1149902	733	34 13	0.022	3 79	0.08632	1.42	0.27796	4.56	2.58054	42.30	0.05983	0.98	0.02460	0.40
51	A Howell WB-1	╀	t	1410850 114			1149845	586	89.00	0.017	9.88	0.07560	0.75	0.25170	2.49	2.47910	24.49	0.04825	0.48	0.02085	0.21
52	C Howell WB-2	2	30 141	1410770 114		1410695 11	1149820	586	79.06	0.015	8.77	0.07560	0.66	0.25170	2.21	2.47910	21.75	0.04825	0.42	0.02085	0.18
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0.257796 2.84 0.25170 11.86 0.25170 3.20 0.25170 4.89	0.25170 11.86 0.25170 3.20 0.25170 3.20 0.25170 4.89 0.25179 4.00 0.25170 4.74 0.25170 4.74 0.25170 12.86 0.23811 14.49 0.2777 0.81
0.07560 0.96 0.07560 0.99 0.07560 1.47	0.07560 0.96 0.07560 0.99 0.07560 1.24 0.07560 1.124 0.07560 1.42 0.07560 3.86 0.06465 3.93
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т	1410050 1149786 1410011 1149741 1410011 1149741 1409934 1149713 1409934 114973 1409725 1149714 1409725 1149714 1409476 11499692 1411364 115098 141125 1151010
+++	5 30 1409 5 35 1409 5 25 1411
Q Chestnut Ramp-4 A Chestnut Ramp 5 A Chestnut Ramp 6 A Chestnut Ramp 6	C Chestnut Ramp 8 A Broad WB-1

APPENDIX L

Noise Analysis

NOISE ANALYSIS REPORT

for

P.I.N. 4940.T7 INNER LOOP RECONSTRUCTION PROJECT SOUTH CLINTON AVENUE TO SCIO STREET CITY OF ROCHESTER, MONROE COUNTY

December 2013

Prepared For:

STANTEC 61 COMMERCIAL STREET ROCHESTER NY 14614

For Submission To:

CITY OF ROCHESTER 30 CHURCH STREET ROCHESTER, NEW YORK 14614

And NEW YORK STATE DEPARTMENT OF TRANSPORTATION 50 WOLF ROAD ALBANY, NEW YORK 14203



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EXECUTIVE SUMMARY

Watts Architecture & Engineering (Watts) was retained by Stantec to perform a Noise Analysis for the City of Rochester, on the Inner Loop Transformation Project, City of Rochester, Monroe County, New York (PIN 4940.T7).

The methods used in this analysis are in accordance with the provisions and procedures of the policies stated in the federal noise regulations (23 CFR 772), and NYSDOT's *The Environmental Manual* (TEM). The Inner Loop project is classified as a 23 CFR 772 Noise Type I project which requires a noise analysis to determine whether noise abatement measures need to be considered.

To determine the effect that the Inner Loop project would have on existing noise levels and to determine what impact the noise would have on current land-use activities, nine noise sensitive receiver sites were selected for evaluation within the study area. At each receiver location, existing and future noise levels were obtained using field noise measurements and computer modeling. The results of the computer modeling were compared to FHWA standards for the identification of predicted future noise impacts.

FHWA Noise Activity Criteria (NAC) noise impacts were predicted at five of the nine receiver locations for the Build Alternative and four of the nine receiver locations for the No-Build Alternative. It should be noted that the term NAC noise impact is not intended to be used for the purpose of determining a "significant" noise impact under National Environmental Protection Act (NEPA) or the State Environmental Quality Review Act (SEQRA). A NAC impact is a noise level that approaches or exceeds a certain noise threshold that triggers the consideration of noise abatement measures.

With respect to an overall comparison between the No-Build and Build alternatives, the variation in the results ranged from 0-2 dBA for all receivers and 0-1 dBA for the five impacted receivers. Since 3 dBA is generally considered the minimum decibel difference noticeable to the human ear, the differences in noise levels between the No-Build and Build alternatives for the analyzed areas are essentially negligible and primarily imperceptible to the human ear. Therefore, consideration of the noise level differences between the No-Build and Build alternatives to favor one alternative over another is not recommended.

Due to factors external to the proposed project, future NAC noise impacts are expected at four of the nine receiver locations regardless of whether the proposed project is constructed. Given that the differences in the predicted noise levels between the Build and No-Build alternatives are projected to be imperceptible to the human ear at all five of the impacted receivers, it is not expected that this project will have a significant impact on noise levels throughout the corridor.

When noise impacts are predicted for a project, noise abatement must be considered for each impact; no favor is given to the higher decibel level impacts or different types of noise impacts

(e.g. above NAC, substantial, severe) and all noise impacts must be considered equally for consideration of noise abatement. Therefore, noise abatement measures were considered along the project corridor for the areas represented by the five receiver locations that exhibited FHWA noise impacts. When noise abatement measures are being considered, 23 CFR 772 requires that every reasonable effort shall be made to obtain substantial noise reductions. A "substantial" noise reduction is defined as a reduction in the order of ten dBA. However, the abatement must provide a minimum reduction of at least seven dBA at the properties with the greatest reductions. In addition, noise abatement measures must be economically reasonable when compared to the number of residences benefitted. A benefitted residence is any residence where the noise level is reduced by 5 dBA or more by implementation of the noise abatement measure(s).

For the impacted areas, all noise abatement measures listed in 23 CFR Part 772.13(c) were examined and evaluated for reducing the dBA level. In all instances, the noise abatement measures were considered physically infeasible, economically unreasonable, or undesirable to the affected residents. Therefore, no noise abatement measures are recommended for this corridor.

1.0 INTRODUCTION

Watts Architecture & Engineering (Watts) was retained by Stantec to perform a Noise Analysis for the City of Rochester, on the Inner Loop Transformation Project, City of Rochester, Monroe County, New York (PIN 4940.T7). See **Figure 1** for the Project Location Map.

1.1 Scope and Purpose

The procedures followed for this report conform to the policies presented in the NYSDOT The Environmental Manual (TEM), Section 4.4.18, "Noise Analysis Policy and Procedures", April 2011 prepared by the NYSDOT Engineering Division - Office of Environment which, in turn, conforms to the Federal noise regulations, Procedures for Abatement of Highway Traffic Noise and Construction Noise, 23 CFR 772 and the Highway Traffic Noise Analysis and Abatement Policy and Guidance dated June 1995. The Inner Loop project is classified as a 23 CFR 772 Noise Type I project, since the project proposes a "Substantial Vertical Alteration" (a project that removes shielding, and therefore exposing the line-of-sight between the receptor and the traffic noise source) of the Inner loop. This type of construction project requires a noise analysis to determine whether noise abatement measures need to be considered.

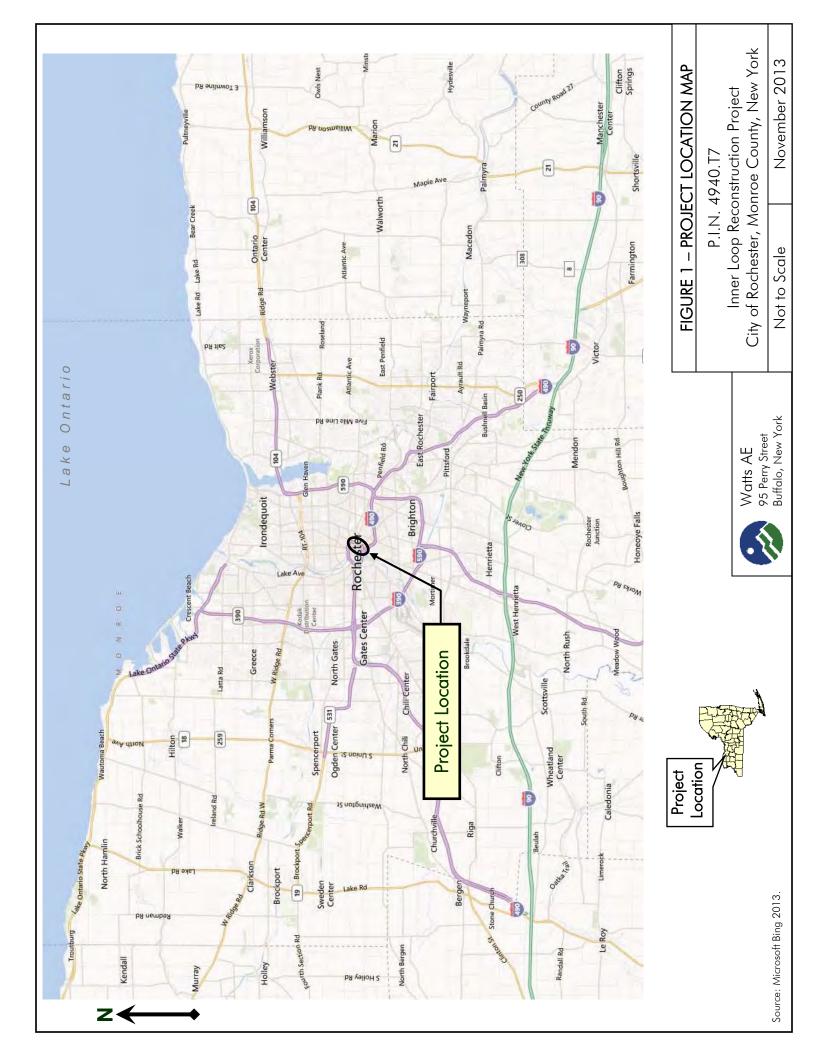
1.2 Project Location

The proposed project is located in the City of Rochester, Monroe County, New York. The project study area limits for the air study are shown on **Figure 2** in **Attachement A.**

1.3 Project Description

The proposed project involves raising the eastern portion of the Inner Loop from Main Street to Monroe Avenue/Chestnut Street, to an at-grade boulevard.

Due to the relatively low traffic volume currently serviced by this section of the Inner Loop, the project is expected to mainly affect the immediate construction area and have a relatively negligible effect on the traffic volumes of the surrounding roadway network.



2.0 DESIGN ALTERNATIVES

2.1 Null/No-Build Alternative

This alternative would not construct the proposed Build Alternative within the study area. It is assumed that the current street configuration would be maintained under this alternative.

2.2 Build Alternative

The Build Alternative would involve raising this section of the Inner Loop to grade. Additional information on the Build Alternative is available in the project Design Approval Document.

3.0 NOISE CHARACTERISTICS

Three physical characteristics of noise have been identified as being significant to the determination of noise acceptance:

- The Intensity,
- The Frequency, and
- The Time-Varying Nature of the Noise.

Intensity is a measure of the magnitude or energy of the sound and is directly related to pressure level. The human ear is capable of sensing a wide range of pressure levels, and consequently, pressure levels are expressed in terms of a logarithmic scale with units called decibels (dB). As the intensity of a noise increases, it is judged to be more annoying or less acceptable.

Frequency is a measure of the total qualities of sound. People are most sensitive to sounds in the middle to high frequencies, therefore, higher frequencies tend to cause more annoyance. This sensitivity led to the use of the A-weighted sound level, which provides a single number measure that weights different frequencies of the frequency spectrum in a manner similar to the sensitivity of the human ear. Thus, the A-weighted sound level in decibels (dBA) provides a simple measure of intensity and frequency that correlates well with human hearing. Common noise levels are shown in **Table 3-1**.

Environmental noise is rarely constant with time. It is necessary to use a method of measure that will account for this time-varying nature of noise. The equivalent sound pressure level (Leq) is defined as the continuous steady sound level which would have the same total A-weighted sound energy as the real fluctuating sound measured over the same period of time. Leq is typically used for highway noise analysis. This unit of measure, therefore, has been chosen for use in this study.

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Table 3-1 Common Noise Levels

Common Outdoor Noise Levels		Levels BA)		Common Indoor Noise Levels
	110	 	110	Rock Band
Jet Flyover at 1000 ft				
	100	 	100	
Gas Lawnmower at 3 ft				Inside Subway Train
	90	 	90	Food Blender at 3 ft
Diesel Truck at 50 ft				Garbage Disposal at 3 ft
Noisy Urban (daytime)	80	 	80	Shouting at 3 ft
Gas Lawnmower at 100 ft	70	 	70	Vacuum Cleaner at 3 ft
				Normal Speech at 3 ft
Heavy Traffic at 300 ft	60	 	60	
				Large Business Office
Quiet Urban (daytime)	50	 	50	Dishwasher Next Room
Quiet Urban (nighttime)	40	 	40	Small Theater (background)
Quiet Suburban (nighttime)				Library
	30	 	30	Radraam at Night
				Bedroom at Night Concert Hall (background)
Quiet Rural (nighttime)	20	 	20	
				Broadcast and Recording Studio
	10	 	10	
				Threshold of Hearing
	0	 	0	

Source: NYSDOT Document - Field Measurement of Existing Noise Levels: May 1986.

4.0 METHODOLOGY OVERVIEW

The methods used in this analysis are in accordance with the provisions and procedures of the policies stated in the federal noise regulations (23 CFR 772), and the NYSDOT TEM. The following procedure was used to achieve the objectives of this study.

- 1. Existing developed land uses were determined for the project areas, and Federal Highway Administration (FHWA) Noise Abatement Criteria (NAC) corresponding to each land use were assigned in accordance with 23 CFR 772.
- 2. Appropriate noise measurement sites were chosen for analysis in the project study area. Using a sound meter that meets ANSI Standards for Type 2 meters, existing noise levels were measured in accordance with the NYSDOT's manual, Field Measurement of Existing Noise Levels. Two measurements were taken at each site. The field noise measurements at each receiver consisted of one field measurement during either an AM or a PM peak hour and one field measurement during an off peak hour. The majority of traffic within the study area consists of commuter-type traffic; therefore, peak hours, that were measured, generally ranged from 4-6:00 pm for PM peak hours during the weekday. Traffic volumes, speeds, vehicle classifications, weather conditions, area topography and any particular incidents that may affect the measurement were recorded at each site concurrent with the noise measurements.
- 3. Using the collected data, computer models reflecting the field conditions were then created for the worst-case measurements taken at each site with respect to either vehicle counts, classifications, or sound levels (if significant variations were identified). The FHWA Traffic Noise Model 2.5 (TNM) computer program was used for this modeling. The TNM noise levels predicted by the models were then compared to the noise levels in the field to validate the ability of the models to predict noise levels at each site. TNM inputs for each receiver site included the field-measured traffic volumes, vehicle distributions, speeds, and roadway geometrics. In accordance with FHWA policies, the TNM-modeled sound levels are considered accurate if they are within plus or minus 3 dBA of the field measured noise levels (ref. FHWA TNM Users Manual). The results of these model validations are described in Section 6.0.
- 4. Years for analysis included the existing year 2013 (for model validation), 2008 (as the "existing" traffic data model year) and 2035 (ETC+20). The validated or acceptable models for each study site (described in Step 3) were then modified to reflect worst case 2008 and 2035 traffic conditions using the design peak hour volumes, growth rates, and speeds (obtained from the NYSDOT and the Draft Design Report/Environmental Assessment for this project) to predict existing

(2008) and future peak hour traffic-generated noise levels produced by the No-Build and Build Alternatives. During the field measurements in the area of the project, there was a construction project that affected traffic patterns throughout the study area, and further, schools were out for the summer. Consequently, the traffic conditions during the field measurements were not considered representative of normal traffic. However, due to the project schedule, the noise measurements were performed under these non-standard conditions. To mitigate for the collection of noise measurements under non-standard conditions, additional noise analysis predictions were made to represent existing conditions using traffic data from 2008 which was collected during normal traffic conditions. Therefore, future noise level predictions were compared to the 2008 model noise levels to determine if an impact was expected. Since the current traffic conditions are considered non-standard, the vehicle mix was evaluated for conservative adjustments based on review of videos that were recorded along the corridor during standard peak hour conditions in 2011.

- 5. For the build alternative, the noise levels predicted using the design year (2035) traffic were compared to the FHWA Noise Abatement Criteria (NAC). Receptors at which predicted noise levels approach (within 1 dBA) or exceed the NAC level of 67 dBA were identified as requiring consideration of noise abatement measures. In accordance with the NYSDOT TEM, the same future noise levels were also compared to the "existing" (in this case, 2008) noise levels yielded from the 2008 model to determine the net increase in noise levels. Increases of 6 dBA or more over existing (2008) levels also require consideration of noise abatement measures.
- 6. For the areas meeting the criteria described in Number 5 above, the full range of noise abatement techniques were considered for acoustic effectiveness, desirability, feasibility, and cost. Abatement measures are recommended for impacted sites when measures are found to be effective, feasible, and reasonable.

5.0 RECEPTOR SITES

Current land-use categories were assigned to the properties located within the study area. A review of local planning documents for the City of Rochester was performed as part of the existing conditions analysis for the EIS process. This existing conditions analysis, in conjunction with a site visit, was used to identify existing activities and developed lands, and to locate undeveloped lands for which development is planned, designed, or programmed. If present, particularly-sensitive noise receivers such as residences, schools, and churches were also identified. In determining noise impacts, primary consideration is given to exterior areas.

To determine the effect that the Inner Loop project would have on existing noise levels and to determine what impact the noise would have on current land-use activities, receptor sites were selected for evaluation within the study area. A total of nine receptor sites were investigated for this noise study. A description of each identified site and its noise category as defined by 23 CFR 772 follows:

- Receiver Location A -- Representative of a park-like green-space at the southwest corner of Howell Street and Broadway (Wadsworth Square Park) that is used by the neighborhood for recreation and relaxation. Receiver is located along the roadway ROW in the grass. Activity Category C (recreation).
- Receiver Location B -- Representative of residential apartment complexes and a doctor's office located along the southeast side of South Union Street. Receiver is located along the sidewalk between the apartment complexes. Activity Category B (residential areas).
- Receiver Location C -- Representative of the Strong Museum. Receiver is located in the circle near one of the museum entrances in the grass. Activity Category C (recreation area).
- Receiver Location D -- Representative of the front yards of numerous residential apartments and houses east of South Union Street. Receiver is located along the Union Street right-of-way (ROW) in front of a representative residence at 72 South Union Street in the grass. Activity Category B (residential areas).
- Receiver Location E -- Representative of a residential apartment complex ("The Savannah"), located along Savannah Street, and the Manhattan Square Tennis Club (air dome structure to the south). Receiver is located on the sidewalk in front of the structures. Activity Category B (residential areas and sports).

- Receiver Location F -- Representative of the Bethel Christian Fellowship Church at the corner of South Union Street and East Avenue. Receiver is located along the South Union Street ROW in a flower bed adjacent to the structure. Activity Category C (places of worship).
- Receiver Location G -- Representative of two places of worship along North Union Street near Richmond Street ("New Hope" at 62 N. Union St. and "The Word of the Cross" at 76 N. Union St.). Receiver is located in a planter along the N. Union Street ROW at 76 N. Union Street. Activity Category C (places of worship).
- PReceiver Location H -- Representative of the World of Inquiry School at 200 University Avenue. The School is undergoing a renovation project that will, among other things, move the location of the exterior playground to the other side of the building. The location of the receiver was chosen based on examination of exterior use areas identified on the proposed School plans and a meeting with the School project's construction manager. The receiver could not be placed within the exact proposed playground location because it was an active construction site at the time of measurement; however, the receiver was placed adjacent to the School property line in parallel with the proposed playground. This new representative location for the Receiver is conservative and makes the most logical sense given the timing and active construction project. Activity Category C (schools).
- Receiver Location I -- Representative of the backyards of numerous residential houses with addresses along Lyndhurst Street. Receiver is located behind a representative house (245 Lyndhurst Street) along the Inner Loop ROW fence. Activity Category B (residential areas).

The figure in **Attachment A** and the Field Noise Monitoring Logs in **Attachment B** show the location of the sites evaluated within the study area.

The FHWA NAC, based on land use or activity category, are listed in **Table 5-1**. These criteria indicate the noise levels for each activity category at which noise impacts occur and consideration of abatement measures is required.

TABLE 5-1

NOISE ABATEMENT CRITERIA (NAC) HOURLY A-WEIGHTED SOUND LEVEL - DECIBELS (dBA)

Activity Category	Leq (h) (dBA)	Description of Land Use Category
А	57 (Exterior)	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B ¹	67 (Exterior)	Residential.
C1	67 (Exterior)	Active sport areas, amphitheatres, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings.
D	52 (Interior)	Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios.
E ¹	72 (Exterior)	Hotels, motels, offices, restaurants/bars and other developed lands, properties or activities not included in A-D or F.
F		Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing.
G		Undeveloped lands that are not permitted.

Leq (h): Equivalent sound pressure level, see section 3.0 for discussion.

Includes undeveloped lands permitted for this Activity Category.

6.0 MODEL VALIDATION

NYSDOT guidelines require the validation of the TNM noise model by using field measurements of noise, traffic volumes, speeds, and vehicle types. The site-specific volumes, vehicle types, speeds, and geometry are entered into the TNM model to determine the model-predicted noise level, for comparison to the field-measured noise levels. In accordance with FHWA policies, the TNM-modeled sound levels are considered accurate if they are within plus or minus 3 dBA of the field measured noise levels (ref. FHWA TNM Users Manual).

6.1 Field Measurements

Existing noise-level measurements were conducted in August 2013 at the nine receiver sites. The receiver locations are shown on **Figure 1** and on the Field Noise Monitoring Logs in **Attachment B**.

The weather was clear with temperatures ranging from 69 to 76 degrees F. Wind was less than 21 kph (13 mph) and humidity was between 37 and 77 percent.

Noise levels at each receiver were measured using a Casella CEL-633C1 Sound Level Meter. To accurately measure the sound level representative of each site, two measurements of at least 15-25 minutes were taken at each site. Measurements were taken throughout the day and during the weekday PM peak hours to help identify the worst case peak hour for the corridor. Noise levels recorded by the sound level meter included the equivalent noise level (Leq). The noise monitoring logs can be found in **Attachment B**. The 2012 field-measured noise levels are shown on **Table 6-1**.

6.2 TNM Model Validation

TNM existing conditions noise models (reflecting site-specific conditions, geometry, traffic volumes, vehicle distributions, and speeds recorded during the field noise measurements) were developed for each site. The TNM predicted noise levels were then compared to the field-measured noise levels described in Section 6.1. At all sites, the TNM existing conditions model outputs agreed with the field measured noise levels. This indicates that the TNM model is considered acceptable and may be used for the prediction of future noise levels.

Table 6-1
<u>Field and Model Validation Noise Levels (Leq)</u>
P.I.N. 4940.T7 - Inner Loop Reconstruction Project

Measurement Site	Major Source(s) of Noise	Start Time	Date	Field Measured 2013 (dBA)	Field Verification Model* 2013 (dBA)
Receiver A: Park/green-space at southwest corner of Howell St. and Broadway Activity Category C (recreation area).	Inner Loop Clinton Chestnut	1:04 pm 4:00 pm	8/6/13 8/8/13	56 56	 57
Receiver B: Apartment complexes and a doctor's office at SE side of S. Union St Activity Category B (residential areas).	S. Union Monroe	11:37 am 4:00 pm	8/6/13 8/15/13	63 65	66
Receiver C: Strong Museum Activity Category C (recreation area).	Inner Loop Pitkin	6:29 pm 5:22 pm	8/6/13 8/15/13	56 60	60
Receiver D: Front yards of residential apartments and houses east of S. Union St Activity Category B (residential areas).	Inner Loop S. Union	12:06 pm 4:41 pm	8/6/13 8/15/13	65 66	 65
Receiver E: Apartment complex and Tennis Club Activity Category B (residential/sports).	Inner Loop Broad	6:04 pm 5:01 pm	8/6/13 8/15/13	55 56	 55
Receiver F: Bethel Christian Fellowship Church Activity Category C (places-of-worship).	Inner Loop S. Union	1:44 pm 4:32 pm	8/6/13 8/6/13	63 63	64
Receiver G: "New Hope" and "The Word of the Cross". - Activity Category C (places-of-worship).	Inner Loop N. Union	2:20 pm 5:02 pm	8/6/13 8/6/13	64 64	64
Receiver H: World of Inquiry School at 200 University Avenue Activity Category C (schools).	Inner Loop E. Main	7:06 pm 4:10 pm	8/6/13 8/6/13	59 60	 62
Receiver I: Backyards of residential houses with along Lyndhurst Street Activity Category B (residential areas).	Inner Loop University Ramps	3:08 pm 5:29 pm	8/6/13 8/6/13	61 59	 62

⁻⁻⁻⁻ These measurements were not modeled.

^{*} Model Validation sound levels are considered accurate if they are within ± 3 dBA of field sound levels (see Section 4.0).

7.0 PREDICTION OF EXISTING AND FUTURE NOISE LEVELS

Once the models have been validated for each receiver site, these models may be used with *design* traffic volumes and characteristics (i.e. with traffic volumes consistent with those presented in the project's Draft Design Report).

7.1 Model Inputs

As stated earlier, the FHWA model accounts for such factors as:

- Traffic Volumes and Classifications;
- Vehicle Operations Speeds;
- Roadway Alignment and Grade; and
- Physical Features.

Each of these factors are discussed below.

7.1.1 Traffic Volumes and Classifications

Existing (in this case, 2008) and Future (2035) peak hour traffic volumes for area roadways were obtained from Stantec. Additional information on traffic volumes can be found in the design approval document for this project.

Traffic volumes and vehicle classifications were recorded during the 2013 field noise measurements. Vehicle classification counts coincided with the five TNM default vehicle classifications (automobiles, medium trucks, heavy trucks, buses, and motorcycles).

The 2008 and 2035 peak-hour traffic data were then mathematically broken down into the five vehicle classification using percentages that were identified during the field noise measurements and incorporated into the TNM peak hour noise models. TNM model inputs and outputs are presented in **Attachment B**.

7.1.2 Vehicle Operating Speeds

The vehicle operating speeds used for the 2035 null model are generally the worst-case free flow speeds either obtained from the design approval document or taken from speed observations or measurements recorded during the field noise monitoring events. For the no-build scenario, the 85th percentile speeds identified in the design approval document were

used in most areas. For the build scenarios, the speeds were lowered to accommodate for the traffic calming measures that have been incorporated into the design.

7.1.3 Roadway Alignment and Grade

The alignments and grades of the Inner Loop and other local roadways for the No-Build and Build Alternatives were used in preparing the noise prediction models.

7.1.4 Physical Features

Existing and proposed physical features such as structures, embankment slopes, earth cut sections and earth berms can act as noise barriers. Physical features were identified during the field measurements for potential inclusion in the noise prediction models, as appropriate.

7.2 Model Results and Impact Assessment

A traffic noise impact can be expected from a project if one or both of the following occurs:

- 1. The projected highway noise levels approach or exceed the FHWA NAC as specified in **Table 5-1** ("Approach" is defined as within 1 dBA of the NAC.)
- 2. The projected highway noise exceeds existing noise levels by 6 dBA or more as specified by NYSDOT ("substantial increase").

The models predict noise impacts at five locations:

- **Site A:** The impact at Site A was predicted under the no-build conditions as well as the build conditions for 2035.
- **Site B:** The impact at Site B was predicted under the 2008 existing conditions, 2035 no-build conditions and the 2035 build conditions.
- **Site D:** The impact at Site D was predicted under the no-build conditions as well as the build conditions for 2035.
- Site F: The impact at Site F was predicted under the no-build conditions as well as the build conditions for 2035.
- **Site G:** The impact at Site G was predicted under the build condition; however, it was not predicted under the no-build condition.

Table 7-1, at the end of this section, summarizes the noise impacts expected from the project.

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7.2.1 Null/No Build Alternative

The predicted design year (2035) noise levels for four (Sites A, B, D and F) of the nine receivers meets the FHWA NAC for characterization as an impact under the No-Build Alternative. The impact at Receiver B for the 2035 no-build case was also predicted as a noise impact under the 2008 model at approximately the same decibel level.

7.2.2 Build Alternative

Noise impacts were predicted at five (Sites A, B, D, F and G) of the nine receiver locations for the build alternative.

2008 Model vs. 2035 Build Alternative Model Comparison:

The predicted noise impact at Site B for the 2035 build alternative case was also predicted as a noise impact under the 2008 model. While the 2035 build alternative model showed impacts at Receivers A, D, F, and G, impacts were not predicted for these receivers under the 2008 model.

2035 No-Build Model vs. 2035 Build Alternative Model Comparison:

The differences in noise levels between the 2035 No-Build Alternative model outputs and the 2035 build alternative model outputs can be attributed to changes in traffic volumes, roadway geometrics, and traffic speeds.

- Traffic volume changes are due to the changes in traffic patterns associated with the roadway geometry improvements for the build conditions,
- Changes in roadway geometrics reflect the changes proposed by the new roadway design, and
- Changes in speed are reflected by the traffic calming measures proposed under the build alternatives.

Four of the five noise impacts under the Build Alternative are also predicted to occur under the No-Build Alternative. Therefore, the impacts at Receivers A, B, D, and F are expected to occur due to normal traffic growth even without this project; however, the noise impact at Receiver G is predicted to occur as a result of the proposed design.

The location of Receiver Site G was intended to represent the worst case location for two churches between Parker and Haags Alleys. Given the bend in the proposed roadway, the roadway would be located further from

"Word of the Cross" church than the "New Hope" church. Therefore, if no impact was predicted at Receiver G, it would follow that neither church would have a predicted impact; however, since a noise impact was predicted at Receiver G, the converse could not be confirmed without further study. Receiver G is located directly in front of the "New Hope" church, and the predicted 2035 noise level of 66 dBA is so close to the threshold at 66 dBA that a separate virtual "Test Receiver" was placed within the computer model at the front door of the "Word of the Cross" church. The predicted 2035 Build Alternative noise level at the Test Receiver is 64 dBA; hence, no impact is predicted for the "Word of the Cross" church. Consequently, the impact at Receiver G represents an impact for the "New Hope" church only.

The impact predicted at Receiver G under the build condition has a predicted noise level that is only 1 dBA higher than the noise level predicted under the no-build condition. The Build Alternative is mathematically louder than the No-Build Alternative; however, as indicated above, a human receptor would not likely perceive the 1 dBA difference in the noise levels between the two alternatives. Therefore, consideration of the noise level difference at Receiver G to favor the No-Build alternative over the Build Alternative is not recommended.

7.2.3 Summary Discussion of Impact Assessment

Noise impacts above the FHWA NAC were predicted at Receivers A, B, D, and F for the Build and No-Build alternatives. In addition, a noise impact was predicted at Receiver G under the 2035 Build condition only. Therefore, construction of the build alternative is predicted to cause a new noise impact for the "New Hope" church at Receiver G; however, it should be noted that even though there is a numerical noise impact at the "New Hope" church, the difference between the Build and No-Build alternatives noise levels are minor and are not expected to be perceptible to the human ear.

With respect to an overall comparison between the No-Build and Build alternatives, the variation in the results ranged from 0-2 dBA (maximum of 2 dBA at Receiver E) per receiver. As indicated above, 3 dBA is generally considered the minimum decibel difference noticeable to the human ear; therefore, the differences in noise levels between the No-Build and Build alternatives for the analyzed areas are essentially negligible and primarily imperceptible to the human ear. Therefore, consideration of the noise level differences between the No-Build and Build alternatives to favor one alternative over another is not recommended.

When noise impacts are predicted for a project, noise abatement must be considered for each impact; no favor is given to the higher decibel level impacts or different types of noise impacts (e.g. above NAC, substantial, severe) and all noise impacts must be considered equally for consideration of noise abatement. Therefore, noise abatement measures were considered along the project corridor for the receptor areas (Receivers A, B, D, F, and G) that exhibited FHWA noise impacts. See Section 8.0 for the results of the noise abatement investigation.

Table 7-1

Noise Impact Summary - Model Results
P.I.N. 4940.T7 - Inner Loop Reconstruction Project

					Noise Level (Leg)	(Leg)	
			2008		Design	Design Year (2035)	
Receiver Location	FHWA	NAC (dBA)	Model (dBA)	Null (dBA)	Impact	Build Alt. (dBA)	Impact
Receiver A: Park/green-space at southwest corner of Howell St. & Broadway Activity Category C (recreation area).	O	67 (Exterior)	65	99	Yes	99	Yes
Receiver B: Apartment complexes and a doctor's office at SE side of S. Union St Activity Category B (residential areas).	В	67 (Exterior)	99	99	Yes	29	Yes
Receiver C: Strong Museum. - Activity Category C (recreation area).	С	67 (Exterior)	61	62	No	19	No
Receiver D: Front yards of residential apartments and houses east of S. Union St Activity Category B (residential areas).	В	67 (Exterior)	99	99	Yes	99	Yes
Receiver E: Apartments and Tennis Club. - Activity Category B (residential/sports).	В	67 (Exterior)	56	58	No	99	No
Receiver F: Bethel Christian Fellowship Church. - Activity Category C (places-of-worship).	С	67 (Exterior)	64	99	Yes	<u> </u>	Yes
Receiver G: "New Hope" and "The Word of the Cross" Activity Category C (places-of-worship).	O	67 (Exterior)	64	99	o N	99	Yes
Receiver H: World of Inquiry School at 200 University Avenue Activity Category C (schools).	O	67 (Exterior)	63	64	o N	٤9	°N
Receiver I: Backyards of residential houses with along Lyndhurst Street. - Activity Category B (residential areas).	В	67 (Exterior)	63	64	o _N	63	°Z

Notes: NAC = Noise Abatement Criteria - An impact occurs when the projected highway noise levels approach or exceed the FHWA NAC as specified in Table 5-1 of this report ("Approach" is defined as within 1 dBA of the NAC). Predicted impacts are shown in bold.

8.0 NOISE ABATEMENT

Noise abatement measures were considered for those sites that are expected to have traffic noise "approaching" or exceeding the FHWA NAC or expected to have a "substantial increase" in traffic noise. Therefore, noise abatement measures were considered for the area represented by Receivers A, B, D, F, and G for this project. When noise abatement measures are being considered, 23 CFR 772 requires that every reasonable effort shall be made to obtain substantial noise reductions. A "substantial" noise reduction is defined as a reduction in the order of ten dBA. However, the abatement must provide a minimum reduction of at least seven dBA at the properties with the greatest reductions. In addition, noise abatement measures must be economically reasonable when compared to the number of residences benefitted. A benefitted residence is any residence where the noise level is reduced by 5 dBA or more by implementation of the noise abatement measure(s).

There are four main noise abatement measures that are considered when an impact has been identified:

- 1. Traffic management measures such as traffic control devices and signing for prohibition of certain vehicle types, time-use restrictions for certain vehicle types, modified speed limits, and exclusive lane designations.
- 2. Alteration of horizontal and vertical alignments.
- 3. Construction of noise barriers.
- 4. Acquisition of real property to serve as a buffer zone.

8.1 Traffic Management

One method of noise abatement is through traffic management, which includes specific lane designations, prohibition or time restriction of certain vehicle types, and modified speed limits. Lane designations would not be effective or practical since many of the existing and proposed roadways are local with driveway and sidestreet access that must be maintained at all times for neighborhood residents, as well as for school busses and delivery trucks. In addition, the Union/Howell Street corridor is generally one or two lanes in each direction.

Prohibition or time restriction of heavy vehicles in the area of the five impacted receiver sites is not considered feasible because the Union/Howell Street corridor is an important transportation route for both commercial and residential traffic where many of the vehicles are delivery trucks and school busses which cannot be re-routed.

It is anticipated that reduction of traffic speeds in the area of the five impacted receiver sites has the potential to have a substantial reduction on traffic noise.

Generally a 20+ mph reduction in speed is necessary for a noticeable decrease in noise levels. A minor reduction in speed may reduce noise levels; however, it would not yield the required "substantial noise reduction" of 7-10 dBA for justification of a noise abatement measure. Therefore, a significant reduction in speeds would have to take place to yield a substantial noise reduction. Two standard methods of speed reduction were considered in the area of the five impacted receiver sites: (1) speed limit reduction and (2) traffic calming measures to reduce actual speed.

Consideration of speed limit reduction: Speed limits can be reduced; however, posting a lower speed limit in this area would not likely result in an actual speed reduction overall and would likely present a traffic safety hazard. The proposed design is expected to have roadway speeds Union/Howell Street corridor ranging from 30-40 mph. It is anticipated that a lower posted speed limit (e.g. ranging from 10-20 mph) would not produce a uniform reduction in vehicle speeds (i.e. some vehicles would slow down and some would not). It is expected that this greater range of vehicle speeds would cause an increase in the accident rate over time and, regardless, would not reduce noise to an extent that would meet the NYSDOT noise reduction goals for residences in this area. Therefore, "speed limit" reduction is not practical for this corridor.

Consideration of traffic calming measures to reduce actual speed: One of the core intents of this project is to reduce the speed of traffic using the Inner Loop corridor. Under the build alternative design, suitable traffic calming measures are planned along the corridor which are anticipated to slow traffic speeds to approximately 30-40 mph. The traffic calming measures currently proposed for the corridor may offer some minor noise reductions along the corridor; however, reasonable traffic calming options would not be able to provide the required speed reductions necessary to meet the NYSDOT noise reduction design goal for traffic noise. Therefore design/implementation of further traffic calming measures for the purposes of noise abatement is not practical for this corridor.

Due to the ineffectiveness and impracticality of these methods, traffic management is not a practical method for noise abatement for this project.

8.2 Alteration of Horizontal and Vertical Alignments

Highway design modification, such as locating the highway farther from receptors or altering profile grades, is another method of noise abatement. Potential changes in horizontal or vertical alignment were evaluated to determine if these measures would be feasible or reasonable for this project.

Evaluation of vertical alignment changes:

Reduction of noise levels through modification of the vertical profile of the Build Alternative would be due to the reduction of the line-of-sight between the vehicular noise sources (tire noise and exhaust pipes) and the receptors. Most automobiles and light trucks have exhaust pipes located at approximately 1-2 feet (0.3 to 0.6 meters) above the roadway surface, however, it should be noted that many trucks/busses have exhaust pipes that outlet at approximately 9.8 feet (3 meters) above the roadway surface and many of the receptors are located above or below the current elevation of the roadway (both requiring lower or higher roadway profiles to reduce line-of-site relationships). Options for changes in vertical alignment include the following:

- 1. Lowering the roadway Depending on the elevation of the receptors and location with respect to the roadway, the roadway would have to be lowered approximately 3.3-6.6 feet (1-2 meters), in the area of the five impacted receiver sites to begin to reduce noise levels; however, reduction of noise levels to an extent that would justify implementation of a mitigation measure would likely require a more extreme change in the vertical alignment. The purpose of this project is to raise the roadway and create more of a neighborhood atmosphere. Since this mitigation method would directly contradict the intention of the project, lowering the roadway is not a viable method of mitigation for these noise impacts.
- 2. Raising the roadway The roadway would have to be raised over 6.6-9.8 feet (2-3 meters) to begin to reduce noise levels to adjacent residences, however, reduction of noise levels to an extent that would justify implementation of a mitigation measure would likely require a more extreme change in the vertical alignment. Engineering obstacles for raising the roadway elevation include unacceptable driveway and yard pitches and the addition of undesirable visual and aesthetic concerns.

In general, construction of vertical alignment changes are not feasible in the areas of the impacted receivers, mainly because this mitigation method would directly contradict the intention of the project. Therefore, a vertical alignment change is not a practical method for noise abatement on this project.

Evaluation of horizontal alignment changes:

As part of the project's design, the many parallel roadways along the corridor (Inner Loop, Union, Pitkin, and Howell) will be consolidated into one roadway with a shifted alignment chosen to maximize the area for potential future development. This roadway shift will influence noise levels through relocation of the noise source and through the resultant traffic calming speed reductions. The resulting reduction in speed will lower some of the noise levels; however, consolidation of the roadways will also move traffic closer to, or farther from, some of the receptors.

The TNM noise modeling predicts that the effects of this roadway design and shift will mathematically lower the noise levels at some of the represented receptors and raise the noise levels at others. However, as indicated above, the predicted differences in noise levels between the No-Build and the Build Alternatives will generally not be perceptible at the five impacted receiver locations.

Generally, a large shift of 100 feet or more is expected to be required to yield noise reductions large enough to justify implementation of horizontal alignment change as a mitigation measure. The proposed Union/Howell Street corridor is centered between receivers on both sides of the roadway, and the alignment of the roadway has been chosen based on the best use of the roadway/open space per the project objectives. Therefore, further horizontal alignment change is not a practical method for noise abatement along the project corridor.

8.3 Construction of Noise Barriers

The most effective method of noise abatement is a noise barrier which can be constructed of wood, steel, concrete, or earthen berm. For a barrier to provide effective noise reduction it must be continuous and designed to a high enough elevation to shield the receptor from the noise source.

Noise barriers were considered as a means of providing noise abatement in the area of the five impacted receiver sites. In order for noise barriers to be constructed in the study area, openings for driveways would need to be provided for the residences along the corridor. However, noise barriers must be continuous in order to be effective as a noise abatement measure. Therefore, construction of noise barriers along this corridor is not a viable noise abatement measure for this project.

In addition and as indicated above, the purpose of this project is to raise the roadway and create more of a neighborhood atmosphere. Since constructing noise barriers would directly contradict the intention of the project, noise barriers would not be an acceptable method of mitigation for these noise impacts.

8.4 Acquisition of Real Property to Serve as a Buffer Zone

This abatement measure allows for acquisition of real property or interests therein (predominantly unimproved property) to serve as a buffer zone to pre-empt development that would be adversely impacted by traffic noise. Since the area of the five impacted receiver sites are located adjacent to the proposed project corridor, there is no room for a buffer zone and this would be ineffective as an abatement measure for the impacted receptors.

8.5 Summary Discussion of Noise Abatement

For the impacted areas, all noise abatement measures listed in 23 CFR Part 772.13(c) were examined and evaluated for reducing or eliminating the noise impacts (see sections 8.1 through 8.4). In all instances, the noise abatement measures were considered physically infeasible, economically unreasonable, or undesirable to the affected residents. Therefore, no noise abatement measures are recommended for this corridor.

9.0 CONSTRUCTION NOISE

Construction noise differs from traffic noise in the following ways:

- Construction noise only lasts for the duration of the construction contract.
- Construction activities are usually limited to the daylight hours when most human activity takes place.
- Construction activities are generally short term.
- Construction noise is intermittent and depends on the type of operation.

This project will include the construction activities of excavation, sub-base preparation, bridge construction, and other miscellaneous work.

Certain mitigation measures can be incorporated into the contract documents to reduce construction noise in the project area. The following mitigation strategies are likely to be used for a project of this type:

A. Source Control

- 1. Use of exhaust systems in good working order, engine enclosures and intake silencers.
- 2. Regular equipment maintenance.
- 3. Use of new equipment subject to new product noise emission standards.

B. Site Control

- 1. Placement of stationary equipment as far away from sensitive receptors as possible.
- 2. Strategic choice of staging sites and C&D disposal sites.

C. Time and Activity Constraints

- 1. Coordinate work operations to coincide with time periods when people would least likely be affected.
- 2. Limit work hours.

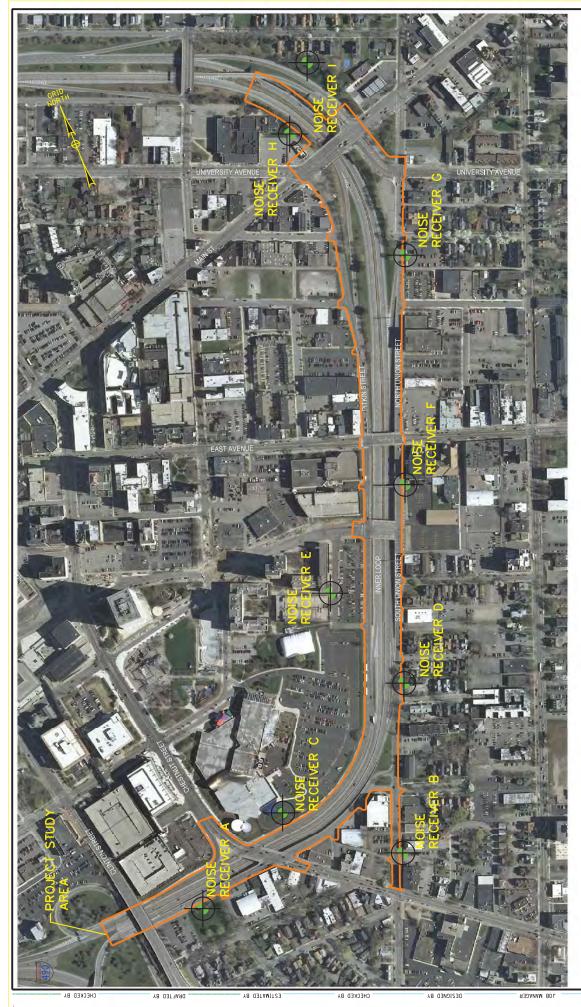
D. Community Awareness

- 1. Public notification of construction operations.
- 2. Methods to handle complaints.

10.0 REFERENCES

- 1. NYSDOT, <u>The Environmental Manual (TEM)</u>, prepared by the NYSDOT Engineering Division Office of Environment, April 2011. Section 4.4.18 Noise Analysis Policy and Procedures.
- 2. City of Rochester/NYSDOT. <u>Draft Design Report for PIN 4940.T7</u>, <u>Inner Loop East Reconstruction Project</u>, <u>South Clinton Avenue to East Main Street</u>, <u>City of Rochester</u>, <u>Monroe County</u>, <u>New York</u>: June 2013; Prepared by Stantec Consulting Services Inc.
- 3. <u>Field Measurement of Existing Noise Levels</u>, prepared by Noise Measurement Unit, Materials Bureau, NYSDOT, May 1986.
- 4. <u>FHWA Traffic Noise Model (TNM) 2.5: User's Guide</u>, Federal Highway Administration, April 2004.
- 5. <u>FHWA Traffic Noise Model (TNM) 1.0: Technical Manual</u>, Federal Highway Administration, February 1998 (including updates to 2.5).
- 6. <u>Federal-Aid Policy Guide</u>, Subchapter H, Part 772 of Title 23 of the Code of Federal Regulations, Federal Highway Administration, Washington, D.C., December 9, 1991, Transmittal 1.

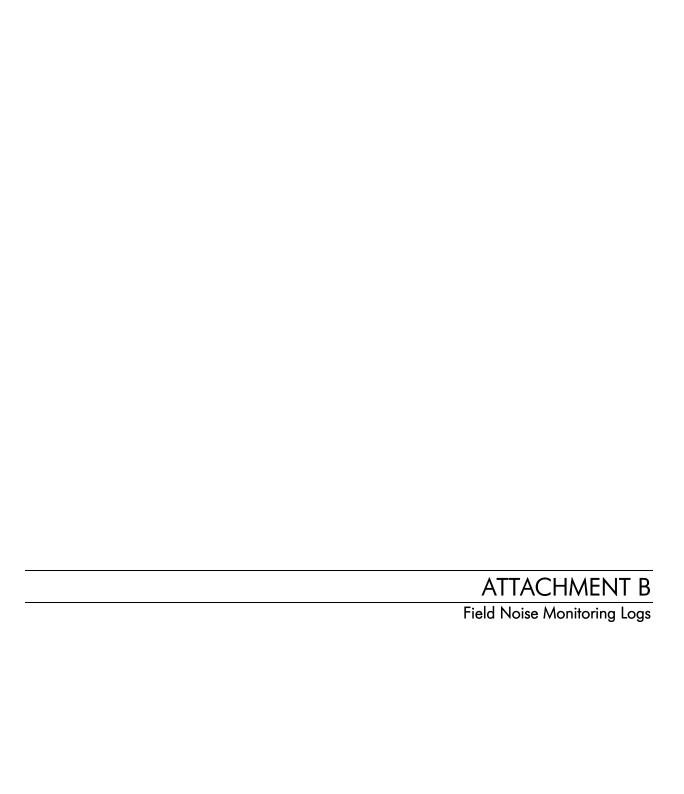




NOTES: 1) ORTHOPHOTOGRAPH BASEMAP IS FROM THE NEW YORK STATE GIS GATEWAY AND IS DATED 2012.

TRAFFIC NOISE STUDY RECEIVERS P.I.N. 4940.T7 - INNER LOOP EAST RECONSTRUCTION PROJECT ROCHESTER, NEW YORK

DESIGN SUPERVISOR



DATE:	0101	1)	_PROJECT NAME.	Inner Loop Reconstruction
DATE.	2101	12	PROJECT NAME:	Inner Loop Reconstruction

LOCATION: Rochester, New York

JOB NO: 12198

PIN NO: 4940.T7 PERSONNEL: JK, NK, PC, MG

INSTRUMENT: <u>Lasella CEL-633C1</u> S/N: <u>Z511397</u>

WEIGHTING: A

CALIBRATION: Before: 114 dBA After: 119 dBA

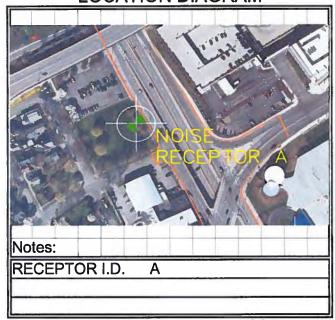
WIND: ~10 DIRECTION: WSW
TEMPERATURE: 74°F

HUMIDITY: 77%

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Start Time Minimum Recording Time Extended Time Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until two consecutive recordings are the same during the minimum 15 minutes.

Nord - 0362 - Broadway / Pat - 0803 - Monroa mike - 0363 - Clinton

COMMENTS

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Watts Architecture & Engineering, P.C. NOISE SURVEY

DATE:	8/6/13	PROJECT NAME:	Inner Loop Reconstruction
		LOCATION:	Rochester, New York
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JOB NO: 12198

PIN NO: 4940.T7 PERSONNEL: JK, NK, DH, PC

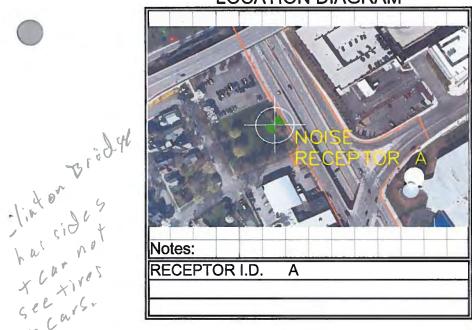
INSTRUMENT: <u>Casella(EL-633C1</u> S/N: <u>251/397</u> WEIGHTING: <u>A</u>

CALIBRATION: Before: 1/4 dBA After: 1/4 dBA

WIND: 7 DIRECTION: SW
TEMPERATURE: 73°F

HUMIDITY: 4/90

LOCATION DIAGRAM



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	20 Min.	25 Min.
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	Extend	ed Time

NOISE LEVEL

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Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.	
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Start Time	Minimum Recording Time			Extended Time		
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Requirements	two consec	utive recordings	are the same dur	ing the minimum	15 minutes.	

Dave-0363 - Clinton / Dat 0803 - Monioe/ Nor=1-0362 - Broadway

Field Survey Sheets v01.xlsx

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		LOCATION: _	Roches	ter, New	TOIK	
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PIN NO:	4940.T7	PERSONNEL:	NK, JK,	PC. DI	1-	
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S/N:	2511397			RUN	LEVEL	
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4:00 p	Continue rec	ording LEQ level	s at 5 minute inte	rvals, up to 25 mi	nutes, or until
Requirements	two consec	utive recordings	are the same dur	ing the minimum	15 minutes.

Pat 0369 - Monroe EBV Dave 0363 - Monroe W& Nora 0362 - Union

HUMIDITY:

DATE: 8/6/13 PROJECT NAME: LOCATION: Roche	Inner Loop Red	construction
LOCATION: Roch	ester. New York	
JOB NO: 12198		
PIN NO: 4940.T7 PERSONNEL: NK, J	K, DH, PC	
INSTRUMENT: Casella CEL-63361	NOIS	Εĺ
S/N: 2511397	RUN LEVE	
WEIGHTING: A	TIME dBA	COMMENTS
CALIBRATION: Before: 1/4 dBA After: 1/4 dBA		
WIND: Calm DIRECTION:	3.29 68	
Notes: RECEPTOR I.D. B		

Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.	
LEQ Reading	60.7	62.8	67.6			
Start Time	Minimum Recording Time			Extended Time		
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Requirements	two consec	cutive recordings	are the same dur	ing the minimum	15 minutes.	

Pat - 01 0803 Monroe EBV Dave - D10363 Field Survey Sheets v01.xlsx Word - 0362 Unioh

DATE: 8/15/13	PROJECT NAME:			struction
JOB NO: 12198	LOCATION: Roche	ster, New	YORK	
PIN NO: 4940.T7	PERSONNEL: JK, N	K, DH,	PC	
INSTRUMENT:	ella CEL 633CI		NOISE	
S/N: 25/139	77	RUN	LEVEL	
WEIGHTING:		TIME	dBA	COMMENTS
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LEQ Reading	58.4	58.4	59.9	59.9	
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5:22 pm	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until				
Requirements	two consec	utive recordings	are the same dur	ing the minimum	15 minutes.

Nora 0362 Chestnut Bridge / Dave 0363 Inner Loop (NOCars) / Pat 0364 Pitkin Howall

Field Survey Sheets v01.xlsx

DATE:	8/6	//3 PROJECT NAME:	Inner Loop Reconstruction
		LOCATION	

LOCATION: Rochester, New York

JOB NO: 12198

4940.T7 PERSONNEL: JK, NK, DH, PC PIN NO:

INSTRUMENT: (aselle (EL-63361 S/N: 2511397

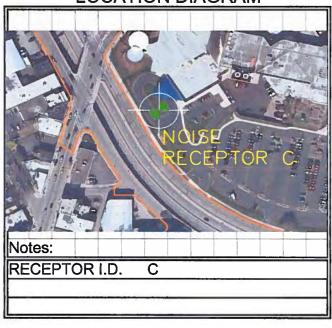
WEIGHTING:

CALIBRATION: Before: 1/4 dBA After: 1/4 dBA

WIND: 27mph DIRECTION: 55W
TEMPERATURE: 73°F
HUMIDITY: 6190

RUN TIME	NOISE LEVEL dBA	COMMENTS
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22:50	258	Place Ovedlerd

LOCATION DIAGRAM



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Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.
LEQ Reading	28.1	57,5	56.6	55.9	56.4
Start Time	Minimum Recording Time			Extend	ed Time
6:29P	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until				
Requirements	two consecutive recordings are the same during the minimum 15 minutes.				

Nora 0362 Chestnut Bridge V Dave 0363 Inner Loop (No cars-Construction-No access). Pat 0803 Pitkin + Howell V

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LEQ Reading	66.5	66.3	66.2		
Start Time	Minimum Recording Time			Extended Time	
4:419	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until				
Requirements	two consec	cutive recordings	are the same dur	ing the minimum	15 minutes.

Dave 0363 Pitkin Nova 6362 Union Pat 0364 Cunfield JK Hand Buena

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Notes:

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DATE:	8/6	/13	PROJECT NAME:	Inner Loop Reconstruction
			LOCATION:	Rochester, New York

JOB NO: 12198

PIN NO: 4940.T7 PERSONNEL: JK, NK, DH, PC

INSTRUMENT: Casella (EL-633C1 NOISE S/N: 2511397 RUN LEVEL TIME dBA

CALIBRATION: Before: 114 dBA After: 114 dBA

WIND: 6 MP4 DIRECTION: 5 W FIRST

HUMIDITY: 41 %

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Requirements	two consecutive recordings are the same during the minimum 15 minutes.					

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DATE: 8/15/13 PROJECT NAME: LOCATION: Roc	Inner Loop Reconstruction
JOB NO:12198	
PIN NO: 4940.T7 PERSONNEL: 1K,	NR, DH, PC
INSTRUMENT: Casella CEL 633C1 S/N: 2511397	NOISE RUN LEVEL
WEIGHTING:	TIME dBA COMMENTS
CALIBRATION: Before: 114 dba After: dba	
WIND: 10 DIRECTION: W TEMPERATURE: 71°F HUMIDITY: 43°70	W C. 1/2
LOCATION DIAGRAM	
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Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.	
LEQ Reading	55.6	56.2	56.1			
Start Time	Minimum Recording Time				ed Time	
5:01PM	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until					
Requirements	two consecutive recordings are the same during the minimum 15 minutes.					

Note 0362 - savanah Pat 0364 - Pitkin union Dave 0363 - Broad

Notes:

RECEPTOR I.D.

Ε

DATE: 8/6/13 PROJECT NAME: Inner Loop Reconstruction

LOCATION: Rochester, New York

JOB NO: 12198

4940.T7 PERSONNEL: JK, NK, PIN NO:

INSTRUMENT: <u>Casella</u> <u>CEL 633C1</u> S/N: <u>751/397</u>

S/N: WEIGHTING:

CALIBRATION: Before: 1/4 dBA After: 1/4 dBA

WIND: ~ 5 mph DIRECTION: 556 TEMPERATURE: 72°F

HUMIDITY: 59%

NOISE LEVEL **RUN** TIME dBA COMMENTS 3:38 263 Beepine alarm internitta

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Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.	
LEQ Reading	54.5	55.2	55.2			
Start Time	Minimum Recording Time			Extende	ed Time	
6:04P	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until					
Requirements	two consecutive recordings are the same during the minimum 15 minutes.					

Nora 0362 - Savannah Pat 0803 - Pitkin/union Dave 0363 - Broad

DATE:	8/6/13	PROJECT NAME:			Inner Loop Reconstruction	
			=	•		_

LOCATION: Rochester, New York

JOB NO: 12198

PIN NO: 4940.T7 PERSONNEL: JK, NK, DH, PC

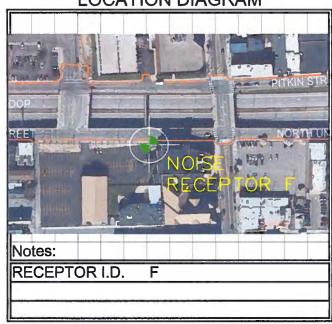
INSTRUMENT: Casella CEL-633CI NOISE S/N: LEVEL RUN

WEIGHTING: TIME dBA COMMENTS CALIBRATION: Before: 114 dBA After: 114 dBA

WIND: 2 mph DIRECTION: ____ TEMPERATURE: 75°F

HUMIDITY: ____

LOCATION DIAGRAM



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Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.	
LEQ Reading	63.8	63.3	63.6	63.4	63.4	
Start Time	Mini	mum Recording	Extend	ed Time		
432p	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until					
Requirements	two consecutive recordings are the same during the minimum 15 minutes.					

Nora 0362 Fast Pat 0803 Union + Pit Kind JKK 0564 Broad - IHT Dave 0363 I.L.

Field Survey Sheets v01.xlsx

DATE:	8/6/13	PROJECT NAME:	Inner Loop Reconstruction
	-	LOCATION:	Rochester, New York
105 110	10100		

JOB NO: <u>12198</u>

PIN NO: 4940.T7 PERSONNEL: JK, NK, DH, PC

INSTRUMENT: <u>Casella (EL-63361</u> S/N: <u>251/397</u> WEIGHTING: CALIBRATION: Before: 114 dBA After: 114 dBA

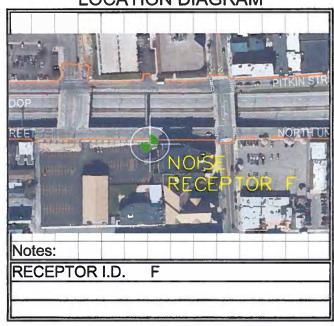
WIND: MPh DIRECTION: 55W
TEMPERATURE: 73°F

HUMIDITY:

lan T.L.

RUN	NOISE LEVEL	
TIME	dBA	COMMENTS
836	63	Plane
9131	4	Union Quere
10-18	90'5	Bus Stop + Squeak
_		Brakes

LOCATION DIAGRAM



Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.		
LEQ Reading	61.4	62.6	63.8	63.3	63.1		
Start Time	Minimum Recording Time			Extended Time			
144P	Continue rec	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until					
Requirements	two consecutive recordings are the same during the minimum 15 minutes.						

No 19 0362 East 2KK 0364 Broad
Field Survey Sheets v01.xlsx Dave 0363 IL.

Pet 10803 UNION + pittins

DATE: 8 /6 //3 PROJECT NAME: LOCATION: Root JOB NO: 12198 PIN NO: 4940.T7 PERSONNEL: JK,	
INSTRUMENT: <u>Case //a CEL-633C1</u> S/N: <u>25//397</u> WEIGHTING: <u>A</u> CALIBRATION: <u>Before: 1/4</u> dBA <u>After: 1/4</u> dBA	RUN LEVEL TIME dBA COMMENTS
WIND: 9mph DIRECTION: 55W TEMPERATURE: 75°F HUMIDITY: 54%	
LOCATION DIAGRAM	
Notes: RECEPTOR I.D. G	

Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.		
LEQ Reading	65,4	65,4 64,3		64.1			
Start Time	Mini	mum Recording	Extended Time				
5:02 p	Continue reco	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until					
Requirements	two consecutive recordings are the same during the minimum 15 minutes.						

Dave	0363	ILV
	0803	Union Pitkin
Noia	0362	Field Survey Sheets v01.xls

DATE:	3/	6/	13	_PROJECT NAME:		Inn	er L	oop	Reconstruction
					=				

LOCATION: Rochester, New York

JOB NO: 12198

4940.T7 PERSONNEL: JK NK, DH PIN NO:

INSTRUMENT: <u>Casella</u> <u>CEL 633Cl</u> S/N: <u>25/1397</u>

WEIGHTING:

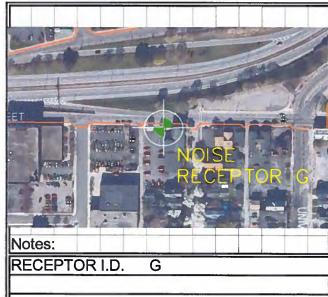
CALIBRATION: Before: 114 dBA After: 114 dBA

WIND: 6 MPh DIRECTION: 55 W
TEMPERATURE: 75°F
HUMIDITY: 37%

HUMIDITY:

	NOISE	
RUN	LEVEL	
TIME	dBA	COMMENTS
1:74-	26 1-59	Construction
2370	7	intermittee
		Pounddug
		Jack Lammer
		Iblock a way
		can hear wl.

LOCATION DIAGRAM



		1 block a wa
		can hear w
		Pretty Consi
		(from School)
~ Ilmin	290	Loud motor Eye
1633-220	255-58	Loud Talkers

Time Interval 5 Min. 10 Min. 15 Min. 20 Min. 25 Min. LEQ Reading 62.7 63.4 64,7 64.2 64.0 Start Time Minimum Recording Time **Extended Time** 2207 Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until two consecutive recordings are the same during the minimum 15 minutes. Requirements

> Dav60363 Il Pat 0803 Union + Pit Kind Norao 262 Pic Field Survey Sheets v01.xlsx 1 K 0364 It aggs

	DATE:	8/6/13		OT NAME:				nstruction
	JOB NO:	12198	LOOATI	OI1. —	110011031	.ci, ivew	TOIK	
	PIN NO:	-	PERSO	NNEL:	JK, NK,	DHP	-	
	S/N: WEIGHTI	MENT: <u>Ca Sa</u> 2 5 // 3 9 1 NG: <u>A</u> TION: <i>Before:</i> 1	7			RUN TIME	NOISE LEVEL dBA	COMMENTS Many Chirpi
	TEMPER	ATURE:Y:	DIRECT 76°F 49%	ION: <u>55</u>	W			hirds.
Rece	e Playprovi en Location increstio	UNIVERSITY-AVENUE	OISE H	FRAM				
`	Time Inte	erval 5 Mir	i. 10	Min.	15 Min.	2	0 Min.	25 Min.

Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.		
LEQ Reading	60.0	59.9	59.8	U. P. C	Jef L		
Start Time	Minimum Recording Time			Extended Time			
9:10p	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until						
Requirements	two consecutive recordings are the same during the minimum 15 minutes.						

Dave 0363 Pat 0803 Nova 0362 Rompsmain

DATE: 8/6//3 PROJECT NAME: LOCATION: Roches JOB NO: 12198 PIN NO: 4940.T7 PERSONNEL: JK, NK	ster, New	York	nstruction
INSTRUMENT: Casella CEL-633CI S/N: 25/1397 WEIGHTING: A CALIBRATION: Before: 114 dbA After: 1/4 dbA	RUN TIME	NOISE LEVEL dBA	COMMENTS Many Chirpin Birds
WIND: 3 mph DIRECTION: 55W TEMPERATURE: 73°F HUMIDITY: 64%	4:08	~59	Trein horn
NOIS NOIS NOIS NOIS NOIS NOIS NOIS NOIS			

Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.	
LEQ Reading	58.3	58.5	58,6	58.6		
Start Time	Mini	mum Recording	Extended Time			
7:06 }	Continue recording LEQ levels at 5 minute intervals, up to 25 minutes, or until					
Requirements	two consecutive recordings are the same during the minimum 15 minutes.					

Pat 0803 Romps V Nora 0362 main Field Survey Sheets v01.xlsx

	Inner Loop Reconstruction Rochester, New York K, NK, DH, PC
INSTRUMENT: Casella CEL-633C1 S/N: 25/1397 WEIGHTING: A CALIBRATION: Before: 114 dba After: 114 d	RUN LEVEL TIME dBA COMMENTS
WIND: ~8 mph DIRECTION: \$5 W TEMPERATURE: 72 F HUMIDITY: 57%	
LOCATION DIAGRAM NOIS RESETOR	

Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.
LEQ Reading	59,3	59.5	59.4	59.4	
Start Time	Mini	mum Recording 7	Γime	Extende	ed Time
5:290	Continue rec	ording LEQ levels	s at 5 minute inter	rvals, up to 25 mi	nutes, or until
Requirements	two consec	cutive recordings	are the same dur	ing the minimum	15 minutes.

Notes:

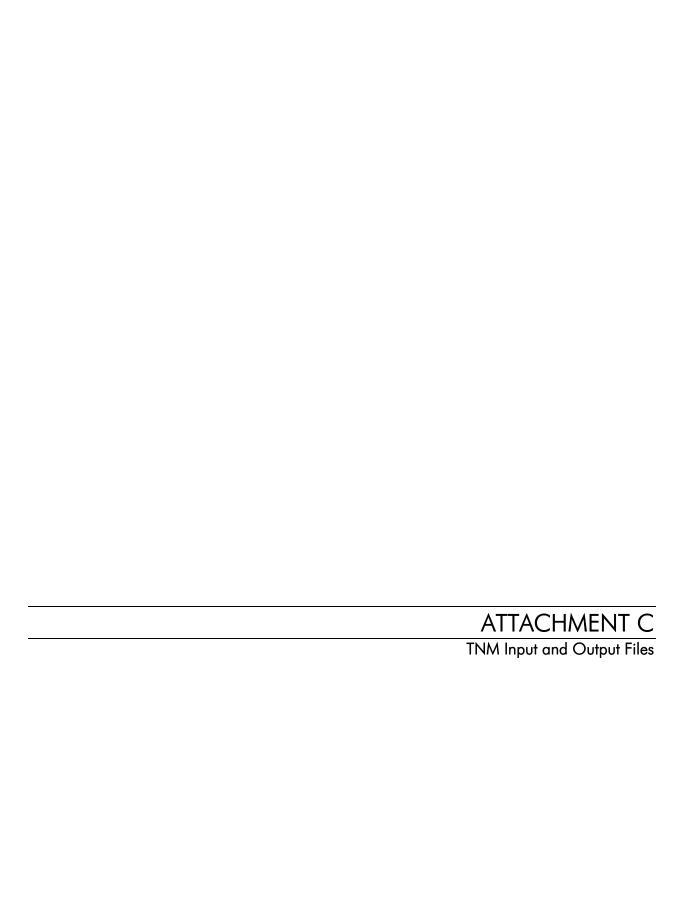
RECEPTOR I.D.

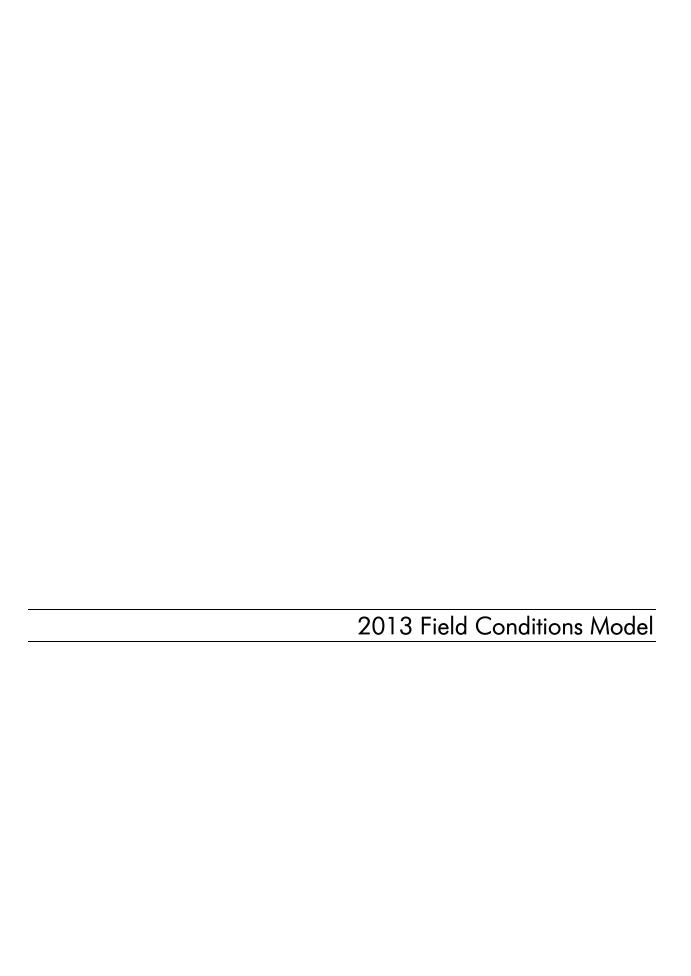
Dave	0363	IL
PaT	0803	main st Br
Nora	0364	Far Ramp
1/	0362	HICAT RALD

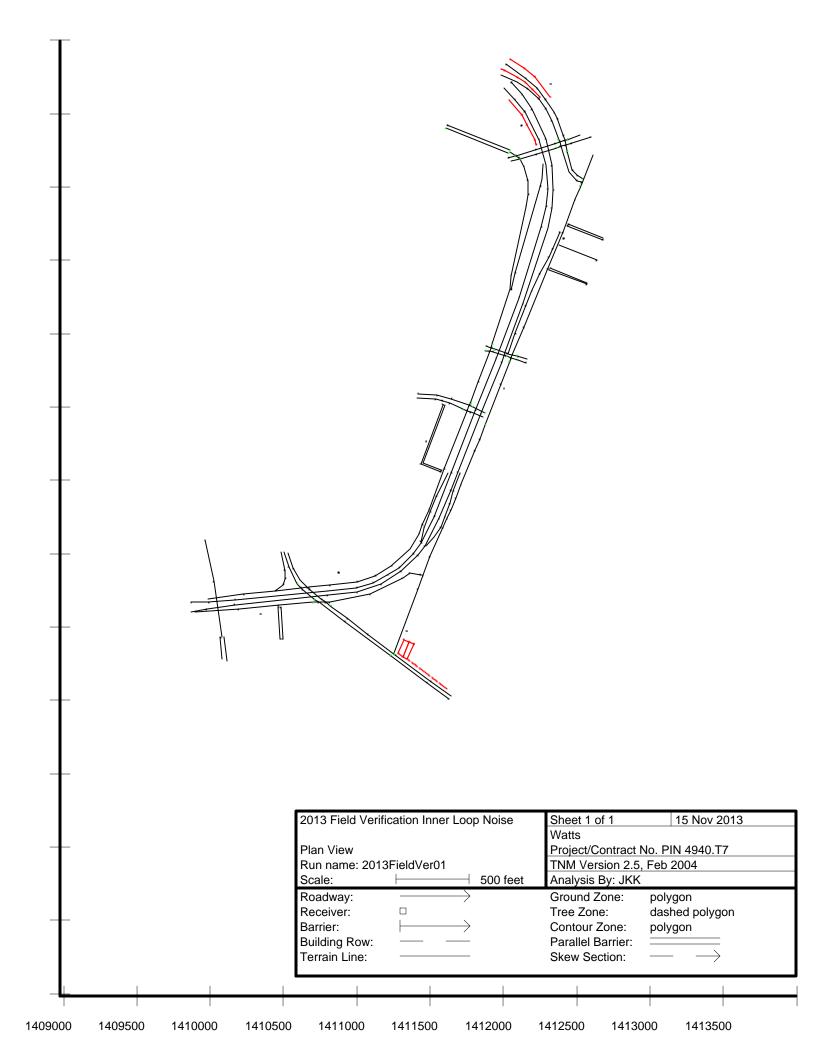
JOB NO:12198	Inner Loop Reconstruction Rochester, New York
INSTRUMENT: Casella CEL-6330 S/N: 2511397 WEIGHTING: A CALIBRATION: Before: 1/4 dba After: 114	RUN LEVEL TIME dBA COMMENTS dBA WISC SOME COAST
WIND: TEMPERATURE: 76°F HUMIDITY: 3990	back of been sit Clous
Notes: RECEPTOR I.D. I	

Time Interval	5 Min.	10 Min.	15 Min.	20 Min.	25 Min.
LEQ Reading	62.8	62.3	61.8	61.5	61,3
Start Time	Mini	mum Recording	Time	Extend	ded Time
3:08Pm	Continue rec	ording LEQ leve	ls at 5 minute inte	ervals, up to 25 m	ninutes, or until
Requirements			are the same du	•	

Dave 0363 ILV
pat 0803 main star
Nora 0364 For Row
Field Survey Sheets v01.xlsx
" 0362 Near Rumpy







RESULTS: SOUND LEVELS							PIN 4940.T7	T7				
M												
Watts							15 Nove	15 November 2013				
JKK							TNM 2.5					
							Calculat	Calculated with TNM 2.5	M 2.5			
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:		PIN 4940.T7	0.17									
RUN:		2013 Fi	eld Verifica	2013 Field Verification Inner Loop Noise	oop Noise							
BARRIER DESIGN:		INPUT	INPUT HEIGHTS					Average	Average pavement type shall be used unless	shall be use	d unless	
								a State I	a State highway agency substantiates the use	y substantiate	es the use	0
ATMOSPHERICS:		68 deg	68 deg F, 50% RH					of a diffe	of a different type with approval of FHWA.	approval of F	HWA.	
Receiver												
Name	Š.	#DNs	Existing	No Barrier					With Barrier			
			LAeq1h	LAeq1h		Increase over existing	er existing	Type	Calculated	Noise Reduction	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dВ		dBA	dВ	dВ	dB
Receiver A	11	_	56.4	56.5	99 9		1.0	10	56.5	0.0		8 -8.0
Receiver B	12	_	64.8	62.9	99 6		1.1	10	62.9	0.0		8 -8.0
Receiver C	13	_	29.9	0.09		0 99	1.0	10	0.09	0.0		8 -8.0
Receiver D	14	_	66.2	65.1		-1 -1	1.1	10	65.1	0.0		8 -8.0
Receiver E	15	_	56.1	55.1		1- 99	1.0	10	55.1	0.0		8 -8.0
Receiver F	16	_	63.4	64.3	3 66		0.9	10	64.3	0.0		8 -8.0
Receiver G	17	_	64.1	64.2	5 66		1.0	10	64.2	0.0		8 -8.0
Receiver H	18	_	29.8	62.1	99		2.3	10	62.1	0.0		8 -8.0
Receiver I	19	1	59.4	61.8	3 66		2.4	10	61.8	0.0		8 -8.0
Dwelling Units		# DNs	Noise Reduction	duction								
			Min	Avg	Max							
			ф	ф	ф							
All Selected		6	0.0	0.0	0.0	0						
All Impacted		0	0.0	0.0	0.0	0						
All that meet NR Goal		0	0.0	0.0	0.0	0						

INPUT: ROADWAYS

PIN 4940.T7

		15 November 2013	013					
		TNM 2.5						
							3	
			(verage	Average pavement type snan be used unless		sallin pasr	Ą.
FIN 4940.17			Ø	State III	a State nighway agency substantiates the use	y substanti	lates the U	ψ Φ
2013 Field Verification Inr	ation Inner Loop Noise		ō	f a differ	of a different type with the approval of FHWA	the approv	al of FHW	⋖
Points								
Width Name No.	Coordinates (pavement)	(pavement)		Flow Control	trol		Segment	
	×	X	S	Control	Speed	Percent	Pvmt	o
			Δ	Device	Constraint	Vehicles	Туре	Struct?
11	#	tt tt			hdm	Affected %		
24.0 point1	1,409,365.1	1,149,604.8	0.00				Average	
point2	2 1,409,469.0	1,149,625.9	0.00				Average	
point3	3 1,409,663.0	1,149,656.2	00.0				Average	
point4	4 1,410,294.2	1,149,719.9	-20.00				Average	
point5	5 1,410,498.0	1,149,742.2	-10.00				Average	
point6	6 1,410,661.0	1,149,797.6	-5.00				Average	
point7	7 1,410,795.1	1,149,884.0	-3.00				Average	
point8	8 1,410,909.6		0.00				Average	
point9	9 1,410,958.1	1,150,058.4	0.00				Average	
point10	10 1,411,056.6	1,150,247.4	0.00				Average	
point11	11 1,411,135.4	1,150,438.2	0.00				Average	
point12	12 1,411,182.4	1,150,562.9	-3.00				Average	
point13	13 1,411,341.5	1,150,960.4	-20.00				Average	
point14	14 1,411,482.5	1,151,314.4	-20.00				Average	
3	273 1,411,506.4		-18.00				Average	
point15	15 1,411,628.8	1,151,712.6	-3.00				Average	
point16	16 1,411,797.8	1,152,227.5	-5.00				Average	
point17	17 1,411,824.2	1,152,364.0	-10.00				Average	
point18	18 1,411,834.1		-15.00				Average	
point19	19 1,411,822.8		-20.00				Average	
point20	20 1,411,780.2	1,152,835.1	-20.00				Average	
point21	21 1,411,684.9	1,153,037.0	-20.00				Average	
point22	1,411,618.1	1,153,138.5	-20.00				Average	
point23			-20.00					
24.0 point24	24 1,411,498.4	1,153,176.4	-5.00				Average	
				1,153,221.9	1,153,221.9	1,153,221.9 1,153,176.4	1,153,221.9 1,153,176.4	1,153,221.9 -20.00 1,153,176.4 -5.00

INPUT: ROADWAYS						PIN 4940.T7	10.T7		_
		point25	25	1,411,574.1	1,153,098.4	-10.00			Average
		point26	26	1,411,639.4	1,153,015.8	-10.00			Average
		point27	27	1,411,737.1	1,152,827.8	-20.00			Average
		point28	28	1,411,784.1	1,152,652.4	-20.00			Average
		point29	29	1,411,796.2	1,152,488.2	-15.00			Average
		point30	30	1,411,785.6	1,152,369.2	-10.00			Average
		point31	31	1,411,752.2	1,152,228.6	-5.00			Average
		point32	32	1,411,597.6	1,151,746.4	-3.00			Average
		point33	33	1,411,440.8	1,151,334.6	-20.00			Average
		point34	34	1,411,301.4	1,150,977.6	-20.00			Average
		point35	35	1,411,136.1	1,150,553.6	-3.00			Average
		point36	36	1,411,020.2	1,150,256.1	0.00			Average
		point37	37	1,410,932.4	1,150,075.2	0.00			Average
		point38	38	1,410,877.8	1,150,001.0	0.00			Average
		point39	39	1,410,782.4	1,149,909.2	-3.00			Average
		point40	40	1,410,701.2	1,149,856.2	-4.00			Average
		point41	41	1,410,602.0	1,149,804.6	-6.00			Average
		point42	42	1,410,489.0	1,149,772.8	-10.00			Average
		point43	43	1,410,289.0	1,149,749.0	-20.00			Average
		point233	233	1,409,659.6	1,149,689.2	0.00			Average
		point44	44	1,409,478.1	1,149,672.0	0.00			Average
		point45	45	1,409,359.8	1,149,672.0	0.00			
Howell	24.0	point46	46	1,409,387.1	1,149,606.0	0.00			Average
		point47	47	1,409,688.0	1,149,625.0	0.00			Average
		point48	48	1,409,963.1	1,149,651.5	0.00			Average
		point49	49	1,410,198.0	1,149,672.8	0.00			
Union	24.0	point55	22	1,410,744.4	1,149,327.0	0.00 Signal	0.00	09	Average
		point56	26	1,410,909.6	1,149,765.4	0.00			Average
		point57	22	1,410,941.5	1,149,859.4	0.00			Average
		point58	58	1,410,990.6	1,149,987.5	0.00			Average
		point59	29	1,411,083.9	1,150,183.9	0.00			Average
		point298	298	1,411,109.2	1,150,244.5	0.00			Average
		point60	09	1,411,134.6	1,150,305.1	0.00			Average
		point61	61	1,411,168.1	1,150,386.0	0.00			Average
		point62	62	1,411,204.6	1,150,479.2	0.00			Average
		point63	63	1,411,296.2	1,150,709.8	0.00			Average
		point64	64	1,411,330.4	1,150,787.1	0.00			Average
		point65	65	1,411,369.9	1,150,883.4	0.00			
University NB	24.0	point75	75	1,412,034.9	1,152,560.5	0.00 Signal	00.00	40	Average

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						210.17		
	point76	t76 76	5 1,411,993.0	1,152,583.1	0.00			Average
	point77	t77 77	7 1,411,963.8		0.00			Average
	point78	t78 78	3 1,411,925.9	1,152,747.1	0.00			
University SB	24.0 point86	ıt86 86	3 1,411,477.6	1,153,270.6	-7.00			Average Y
	point87	t87 87	7 1,411,589.1	1,153,219.1	-5.00			Average
	point88	t88 88	3 1,411,658.9	1,153,175.1	-3.00			Average
	point89	t89 89	9 1,411,733.9	1,153,103.9	0.00			Average
	point90	ıt90 90	0 1,411,781.6	1,153,036.4	0.00			Average
	point91	t91 91	1,411,824.9	1,152,951.5	0.00			Average
	point92	rt92 92	1,411,870.4	1,152,827.1	0.00			
Main EB	36.0 point97	t97 97	7 1,411,544.4	1,152,678.9	0.00			Average
	poir	point260 260	1,411,605.2	1,152,696.0	0.00			
Main WB	36.0 poir	point101 101	1,412,018.1	1,152,857.0	0.00			Average
	point10	t102 102	2 1,411,928.9	1,152,828.2	0.00			
Richmond WB	12.0 point10	t106 106	3 1,412,175.0	1,152,156.9	0.00			Average
	poir	point107 107	7 1,411,936.2	1,152,252.4	0.00			
Richmond EB	12.0 point10	t108 108	3 1,411,929.5	1,152,241.8	0.00 Onramp	10.00	100	Average
	point10	109 109	9 1,412,172.8	1,152,144.8	0.00			
Charlotte WB	12.0 point11	t110 110	1,412,062.1	1,151,851.6	0.00			Average
	point11	t111 111	1,411,811.1	1,151,954.8	0.00			
Charlotte EB	12.0 point1	t112 112	1,411,805.1	1,151,941.9	0.00 Onramp	10.00	100	Average
	point1	t113 113			0.00			
East WB	24.0 point11	t114 114	1,411,654.1	1,151,328.5	0.00			Average
	point11	t115 115	5 1,411,586.6	1,151,352.0	0.00			
Broad WB	36.0 poir	point124 124	1,411,367.4	1,150,965.6	0.00 Signal	0.00	80	Average Y
	poir	point125 125	5 1,411,283.2	1,151,005.9	0.00			
Broad EB	36.0 poir	point129 129	1,410,906.5	1,151,068.0	0.00			Average
	poir	point130 130	0 1,411,032.2	1,151,057.4	0.00			Average
	poir	point131 131	1,411,080.9	1,151,046.8	0.00			Average
	point13	t132 132	1,411,129.4	1,151,028.6	0.00			Average
	point13	t133 133	3 1,411,218.0	1,150,988.4	0.00			
Savannah NB	12.0 point13	t135 135	5 1,411,070.2	1,150,573.0	0.00 Onramp	10.00	100	Average
	poir	point136 136	3 1,410,942.9	1,150,623.8	0.00			Average
	poir	point137 137	7 1,411,096.8	1,151,021.0	0.00			
Savannah SB	12.0 point138	ω		1,151,021.0	0.00 Onramp	10.00	100	Average
	point13	t139 139	9 1,410,928.5	1,150,613.1	0.00			Average
	poir	point140 140	1,411,064.1	1,150,560.9	0.00			
Broadway NB	12.0 point147	_			0.00 Onramp	10.00	100	Average
	point14	t142 142	2 1,409,974.8	1,149,639.1	0.00			

PIN 4940.T7

> Average 100 20 0.00 Onramp 10.00 0.00 0.00 Signal 20.00 20.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -20.00 -15.00 20.00 20.00 20.00 20.00 20.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,149,637.6 1,149,271.5 1,149,285.9 1,149,433.0 1,149,436.0 1,149,815.6 1,150,098.6 1,150,015.6 1,149,888.2 1,149,831.4 1,149,792.0 1,149,750.2 1,150,054.4 1,150,120.2 1,150,186.2 1,150,259.0 1,150,347.0 1,150,433.4 1,150,554.6 1,150,552.4 1,150,394.0 1,150,287.9 1,150,177.9 1,150,084.6 1,152,739.9 1,152,717.5 1,152,703.5 1,152,696.0 1,152,639.8 1,152,545.8 1,152,451.0 1,151,898.0 1,151,433.5 1,152,658.4 1,149,435.2 1,152,368.4 1,411,756.0 1,152,562.1 1,149,420.1 1,151,806.1 1,409,958.0 1,411,762.9 1,409,992.5 1,411,022.5 1,411,197.6 1,410,928.5 1,411,601.2 1,411,418.4 1,409,970.9 1,409,608.5 1,409,586.6 1,409,562.4 1,409,575.2 1,409,518.0 1,409,457.0 1,410,001.6 1,410,006.1 1,409,938.6 1,410,965.6 1,411,065.6 1,411,152.1 1,411,117.2 1,410,993.6 1,410,950.5 1,411,575.9 1,411,605.2 1,411,634.5 1,411,659.6 1,411,661.9 1,411,645.9 1,411,544.4 1,411,537.5 1,409,575.2 1,409,975.0 1,411,096.8 1,411,535.2 1,411,127.1 1,411,036.1 144 145 146 148 149 154 155 156 162 158 163 166 168 170 258 172 173 174 194 147 150 151 152 153 157 159 160 161 164 165 167 169 257 171 177 193 point161 point146 point153 point155 point159 point257 12.0 point143 point145 point148 point149 point150 point152 point154 point156 point158 point160 point162 point163 point164 point165 point166 point167 point168 point169 point170 point258 point172 point173 point174 point175 point176 point193 point194 point147 point151 point157 point177 point171 24.0 24.0 48.0 24.0 12.0 12.0 24.0 12.0 IL Ramp to Pitkin Chestnut Ramp IL/Union Ramp IL/Pitkin Ramp **Broadway SB** Clinton Ramp Clinton NB 2 Clinton NB 1 Pitkin

INPUT: ROADWAYS				PIN 4	PIN 4940.T7			
	point195	195 1,411,744.6	1,152,504.5	-13.00			Average	
	point196	196 1,411,573.1	1,151,916.9	0.00			Average	
	point197	197 1,411,545.9	1,151,805.5	0.00				
Monroe-Chestnut NB 12.0	point198	198 1,411,136.8	1,149,032.6	0.00			Average	
	point199	199 1,410,995.0	1,149,135.8	0.00			Average	
	point200	200 1,410,752.4	1,149,316.1	0.00				
Chestnut-Monroe SB 24.0	point208	208 1,409,994.6	1,150,018.2	0.00			Average	
	point209	209 1,410,028.0	1,149,911.4	0.00			Average	
	point210	210 1,410,088.6	1,149,797.6	0.00				
E University Ave EB 24.0	point229	1,411,100.0	1,152,904.0	0.00 Signal	0.00	20	Average	
	point230	230 1,411,527.0	1,152,734.0	0.00				
E University Ave WB 24.0	point231	231 1,411,535.0	1,152,755.0	0.00 Signal	00.00	20	Average	
	point232	232 1,411,109.0	1,152,924.0	0.00				
IL Ramp to Union-2-2	point272	272 1,411,523.0	1,151,369.1	-20.00			Average	
	point218	218 1,411,575.2	1,151,507.8	-10.00			Average	
	point219	219 1,411,647.2	1,151,698.8	-3.00			Average	
	point220	220 1,411,689.9	1,151,802.8	0.00			Average	
	point221	221 1,411,739.9	1,151,916.5	0.00			Average	
	point222	222 1,411,800.6	1,152,030.2	0.00			Average	
	point223	223 1,411,829.4	1,152,087.0	0.00			Average	
	point224	224 1,411,879.4	1,152,199.2	0.00				
Howell-2 24.0	point274	274 1,410,198.0	1,149,672.8	0.00 Signal	0.00	09	Average	
	point236	236 1,410,232.5	1,149,672.2	0.00			Average	
	point234	234 1,410,283.4	1,149,672.2	0.00			Average	
	point50	50 1,410,307.2	1,149,672.0	0.00			Average	
	point51	51 1,410,585.4	1,149,727.4	0.00			Average	
	point52	52 1,410,805.0	1,149,840.1	0.00			Average	
	point53	53 1,410,854.2	1,149,873.5	0.00			Average	
	point54	54 1,410,930.1	1,149,861.4	0.00				
Union-2 24.0	point275	275 1,411,369.9	1,150,883.4	0.00 Signal	0.00	40	Average	
	point66	66 1,411,473.6	1,151,161.6	0.00			Average	
	point67	67 1,411,536.6	1,151,315.6	0.00				
Union-2-2 24.0	point276	276 1,411,536.6	1,151,315.6	0.00 Signal	0.00	20	Average	
	point256	256 1,411,546.0	1,151,339.1	0.00			Average	
	point255	255 1,411,553.8	1,151,360.5	0.00			Average	
	point68	68 1,411,630.6	1,151,549.9	0.00			Average	
	point69	69 1,411,794.5	1,151,951.8	0.00			Average	
	point70			0.00			Average	
	point71	71 1,411,921.1	1,152,255.4	0.00			Average	

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INPUT: ROADWAYS	•						PIN 4940.T7	40.T7			
		point72	72	1,411,982.5	1,152,422.1	0.00				Average	
		point73	73	1,412,020.4	1,152,514.5	00.00					
Union-2-2-2	24.0	point277	277	1,412,020.4	1,152,514.5	0.00	Signal	0.00	09	Average	
		point74	74	1,412,104.5	1,152,725.1	0.00					
University NB-2	24.0	point278	278	1,411,925.9	1,152,747.1	0.00	Signal	0.00	20	Average	
		point265	265	1,411,916.5	1,152,791.4	00.00				Average	
		point266	592	1,411,910.0	1,152,822.2	0.00				Average	
		point79	26	1,411,902.1	1,152,859.8	0.00				Average	
		point80	80	1,411,858.1	1,152,971.9	0.00				Average	
		point81	8	1,411,836.2	1,153,015.9	0.00				Average	
		point82	82	1,411,779.4	1,153,103.9	0.00				Average	
		point83	83	1,411,718.8	1,153,176.6	-3.00				Average	
		point84	84	1,411,642.9	1,153,250.1	-10.00				Average	
		point85	82	1,411,508.0	1,153,343.4	-20.00					
University SB-2	24.0		279	1,411,870.4	1,152,827.1	0.00	Signal	0.00	20	Average	
		point268	268	1,411,875.6	1,152,811.1	0.00				Average	
		point267	267	1,411,885.1	1,152,781.4	00.00				Average	
		point93	63	1,411,900.6	1,152,733.5	00.00				Average	
		point94	94	1,411,941.2	1,152,604.8	0.00				Average	
		point95	96	1,411,994.1	1,152,547.6	0.00				Average	
		point96	96	1,412,025.8	1,152,535.4	0.00					
Main EB-2	36.0	point	280	1,411,605.2	1,152,696.0	0.00	Signal	0.00	20	Average	
		point98		1,411,722.0	1,152,729.1	00.00				Average	>
		point99	66	1,411,855.6	1,152,772.1	0.00					
Main EB-2-2	36.0	point281	281	1,411,855.6	1,152,772.1	0.00 Si	Signal	0.00	20	Average	
		point262	262	1,411,885.1	1,152,781.4	0.00				Average	
		point261	261	1,411,916.5	1,152,791.4	0.00				Average	
		point226		1,411,958.5	1,152,804.8	00.00				Average	
		point100	100	1,412,090.1	1,152,847.1	0.00					
Main WB-2	36.0	point282	282	1,411,928.9	1,152,828.2	0.00 Si	Signal	0.00	20	Average	
		point263	263	1,411,910.0	1,152,822.2	0.00				Average	
		point264	264	1,411,875.6	1,152,811.1	0.00				Average	
		point103	103	1,411,841.0	1,152,800.2	0.00				Average	>
		point225	225	1,411,710.5	1,152,759.0	0.00				Average	
		point104	104	1,411,575.9	1,152,717.5	0.00				Average	
		point259	528	1,411,570.9	1,152,716.0	00.00					
Main WB-2-2	36.0	point283		1,411,570.9	1,152,716.0		Signal	0.00	20	Average	
				1,411,525.4	1,152,703.1	00.00					
East WB-2	24.0	point284	784	1,411,586.6	1,151,352.0	0.00	Signal	0.00	20	Average	

INPUT: ROADWAYS										
		point253	253	1,411,553.8	1,151,360.5	0.00			Average	
		point116	116	1,411,522.5	1,151,368.5	0.00			Average	
		point249	249	1,411,513.1	1,151,371.6	0.00			Average	>
		point117	117	1,411,433.5	1,151,398.2	0.00				
East WB-2-2	24.0	point285	285	1,411,433.5	1,151,398.2	0.00 Signal	0.00	20	Average	
		point245	245	1,411,408.6	1,151,408.2	0.00			Average	
		point118	118	1,411,374.4	1,151,421.8	0.00				
Broad WB-2	36.0	point287	287	1,411,283.2	1,151,005.9	0.00 Signal	0.00	20	Average	
		point244	244	1,411,260.6	1,151,014.6	0.00			Average	
		point126	126	1,411,135.4	1,151,061.9	0.00			Average	
		point127	127	1,411,037.6	1,151,083.1	0.00			Average	
		point128	128	1,410,908.0	1,151,096.0	0.00				
Broad EB-2	36.0	point288	288	1,411,218.0	1,150,988.4	0.00 Signal	0.00	20	Average	
		point243	243	1,411,246.6	1,150,976.9	0.00			Average	
		point227	227	1,411,270.2	1,150,967.5	0.00			Average	>
		point134	134	1,411,356.8	1,150,933.8	0.00				
Pitkin-2	24.0		289	1,411,418.4	1,151,433.5	0.00 Signal	0.00	20	Average	
		point248	248	1,411,408.6	1,151,408.2	0.00			Average	
		point247	247	1,411,399.9	1,151,383.8	0.00			Average	
		point178	178	1,411,322.9	1,151,172.0	0.00			Average	
		point179	179	1,411,266.0	1,151,027.9	0.00				
Pitkin-2-2	24.0		290	1,411,266.0	1,151,027.9	0.00 Signal	0.00	20	Average	
		point242	242	1,411,260.6	1,151,014.6	0.00			Average	
		point241	241	1,411,246.6	1,150,976.9	0.00			Average	
		point180	180	1,411,089.4	1,150,580.9	0.00			Average	
		point181	181	1,410,984.4	1,150,303.0	0.00			Average	
		point182	182	1,410,940.4	1,150,199.9	0.00			Average	
		point183	183	1,410,916.9	1,150,137.8	0.00			Average	
		point184	184	1,410,854.0	1,150,033.9	0.00			Average	
		point185	185	1,410,729.1	1,149,917.4	0.00			Average	
		point186	186	1,410,616.2	1,149,853.0	0.00			Average	
		point187	187	1,410,494.1	1,149,812.9	0.00			Average	
		point188	188	1,410,306.1	1,149,788.5	0.00			Average	
		point189	189	1,410,161.4	1,149,774.9	0.00				
Pitkin-2-2-2	24.0	_	291	1,410,161.4	1,149,774.9	0.00 Signal	0.00	20	Average	
		point240	240	1,410,151.0	1,149,773.9	0.00			Average	
		point239	239	1,410,113.0	1,149,769.2	0.00			Average	
		point190	190	1,409,937.8	1,149,748.4	0.00			Average	
		point191	191	1,409,717.5	1,149,727.1	0.00			Average	

INPUI: ROADWAYS						PIN 4940. I	40.I /			
	point192	192	1,409,476.6	1,149,693.9	0.00					
Monroe-Chestnut NB-2-2-2	point294	294	1,410,167.5	1,149,761.1	0.00	Signal	0.00	20	Average	
	point237	237	1,410,151.0	1,149,773.9	0.00				Average	
	point205	205	1,410,104.5	1,149,827.1	0.00				Average	
	point206	206	1,410,057.5	1,149,905.2	0.00				Average	
	point207	207	1,410,022.6	1,150,011.4	0.00					
Chestnut-Monroe SB-2 24.0		295	1,410,088.6	1,149,797.6	0.00	Signal	0.00	20	Average	
	point238	238	1,410,113.0	1,149,769.2	0.00				Average	
	point211	211	1,410,123.2	1,149,755.8	0.00				Average	>
	point212	212	1,410,206.2	1,149,691.5	0.00					
Chestnut-Monroe SB-2-2	point296	296	1,410,206.2	1,149,691.5	0.00	Signal	0.00	20	Average	
	point235	235	1,410,232.5	1,149,672.2	0.00				Average	
	point213	213	1,410,414.9	1,149,541.8	0.00				Average	
	point214	214	1,410,725.8	1,149,308.2	0.00					
Chestnut-Monroe SB-2-2-2	point297	297	1,410,725.8	1,149,308.2	00.00	Signal	0.00	20	Average	
	point215	215	1,410,974.0	1,149,122.5	0.00				Average	
	point216	216	1,411,119.5	1,149,011.8	0.00					
Haags EB/WB	point299	299	1,411,872.0	1,152,106.0	0.00				Average	
	point300	300	1,412,129.0	1,152,004.0	0.00					
East EB 24.0	point119	119	1,411,366.0	1,151,388.4	0.00	Signal	0.00	20	Average	
	point246	246	1,411,399.9	1,151,383.8	0.00				Average	
	point120	120	1,411,425.1	1,151,380.8	0.00				Average	\
	point250	250	1,411,509.6	1,151,352.2	0.00				Average	
	point121	121	1,411,515.8		0.00					
East EB-2 24.0	point301	301	1,411,515.8	1,151,350.2	0.00	Signal	0.00	20	Average	
	point286	286	1,411,546.0	1,151,339.1	0.00				Average	
	point122	122	1,411,591.9	1,151,322.4	0.00				Average	
	point123	123	1,411,650.2	1,151,306.5	0.00					
Monroe-Chestnut NB-2		292	1,410,752.4	1,149,316.1	0.00	Signal	0.00	20	Average	
	point201	201	1,410,564.6	1,149,457.2	0.00				Average	
	point302	302	1,410,425.9	1,149,562.6	0.00				Average	
	point303	303	1,410,312.8	1,149,649.9	0.00					
Monroe-Chestnut NB-2-2	_	304	1,410,312.8	1,149,649.9	0.00	Signal	0.00	20	Average	
	point293	293	1,410,283.4	1,149,672.2	0.00				Average	
	point228	228	1,410,251.6	1,149,696.4	0.00				Average	>
	point204	204	1,410,167.5	1,149,761.1	0.00					

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INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	PIN 4940.T7											
RUN:	2013 Field Verification Inner Loop Noise	ificatio	n Inner L	oop Nc	oise							
Roadway	Points											
Name	Name	Š.	Segment	ב								
			Autos		MTrucks	6	HTrucks	S	Buses		Motorcycles	cles
			>	S	>	တ ဒိ	> ;	S	>	S	> ;	S
			ven/nr	udw	ven/nr	udu	ven/nr	udu	ven/nr	udu	ven/nr	udu
Inner Loop EB	point1	_	0	0	0	0		0 0	0	0	0	0
	point2	2	0	0	0	0		0 0	0	0	0	0
	point3	3	0	0	0	0		0 0	0	0	0	0
	point4	4	0	0	0	0		0 0	0	0	0	0
	point5	2	0	0	0	0		0 0	0	0	0	0
	point6	9	0	0	0	0		0 0	0	0	0	0
	point7	7	0	0	0	0		0 0	0	0	0	0
	point8	8	0	0	0	0		0 0	0	0	0	0
	point9	တ	0	0	0	0		0 0	0	0	0	0
	point10	10	0	0	0	0	0	0	0	0	0	0
	point11	1	0	0	0	0		0 0	0	0	0	0
	point12	12	617	20	2	20		2 50	2	20	2	20
	point13	13	617	20	2	20		2 50	2	20	2	20
	point14	14	617	20	2	20		2 50	2	20	9	20
	point273	273	418	20	0	0		0 0	2	20	2	20
	point15	15	418	20	0	0		0 0	2	20	2	20
	point16	16	418	20	0	0		0 0	2	20	2	20
	point17	17	418	20	0	0		0 0	2	20	2	20
	point18	18	418	20	0	0		0 0	2	20	2	20
	point19	19	496	20	12	20		0 0	0	0	4	20
	point20	20	496	20	12	20		0 0	0	0	4	50
	point21	21	333					0 0			0	
	point22	22	333	50	3	20		0 0	3	20	0	0

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INPUT: TRAFFIC FOR LAeq1h Volumes						E	PIN 4940.T7					
	point23	23										
Inner Loop WB	point24	24	198	20	0	0	0	0	0	0	0	0
	point25	25	198	20	0	0	0	0	0	0	0	0
	point26	26	208	20	0	0	0	0	0	0	0	0
	point27	27	208	20	0	0	0	0	0	0	0	0
	point28	28	94	20	2	20	0	0	0	0	0	0
	point29	29	94	20	2	20	0	0	0	0	0	0
	point30	30	94	20	2	20	0	0	0	0	0	0
	point31	31	94	20	2	20	0	0	0	0	0	0
	point32	32	48	20	0	0	0	0	0	0	0	0
	point33	33	48	20	0	0	0	0	0	0	0	0
	point34	34	48	20	0	0	0	0	0	0	0	0
	point35	35	0	0	0	0	0	0	0	0	0	0
	point36	36	0	0	0	0	0	0	0	0	0	0
	point37	37	0	0	0	0	0	0	0	0	0	0
	point38	38	0	0	0	0	0	0	0	0	0	0
	point39	39	0	0	0	0	0	0	0	0	0	0
	point40	40	0	0	0	0	0	0	0	0	0	0
	point41	41	0	0	0	0	0	0	0	0	0	0
	point42	42	0	0	0	0	0	0	0	0	0	0
	point43	43	0	0	0	0	0	0	0	0	0	0
	point233	233	0	0	0	0	0	0	0	0	0	0
	point44	44	0	0	0	0	0	0	0	0	0	0
	point45	45										
Howell	point46	46	0	0	0	0	0	0	0	0	0	0
	point47	47	0	0	0	0	0	0	0	0	0	0
	point48	48	0	0	0	0	0	0	0	0	0	0
	point49	49										
Union	point55	22	393	22	3	25	6	25	0	0	9	25
	point56	99	393	30	3	30	6	30	0	0	9	30
	point57	25	744	30	16	30	0	0	0	0	0	0
	point58	28	744	35	16	35	0	0	0	0	0	0
	point59	29	744	35	16	35	0	0	0	0	0	0
	point298	298	365	35	8	35	0	0	0	0	0	0
	point60	09	365	35	80	35	0	0	0	0	0	0
	point61	61	365	35	8	35	0	0	0	0	0	0
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INPUT: TRAFFIC FOR LAeq1h Volumes	

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	pointoz	70	1	35	0	0	4	3	0	0	4	က္
	point63	63	504	30	0	0	4	30	0	0	4	30
	point64	64	504	25	0	0	4	25	0	0	4	25
	point65	65										
University NB	point75	75	621	30	8	30	0	0	0	0	4	30
	point76	92	621	30	8	30	0	0	0	0	4	30
	point77	77	621	25	80	25	0	0	0	0	4	25
	point78	78										
University SB	point86	98	989	45	3	45	9	45	9	45	6	45
	point87	87	989	40	3	40	9	40	9	40	6	40
	point88	88	989	35	3	35	9	35	9	35	6	35
	point89	88	989	25	3	25	9	25	9	25	6	25
	point90	06	548	15	12	15	4	15	16	15	0	0
	point91	91	548	10	12	10	4	10	16	10	0	0
	point92	92										
Main EB	point97	26	200	25	0	0	0	0	20	25	4	25
	point260	260										
Main WB	point101	101	417	25	0	0	3	25	9	25	0	0
	point102	102										
Richmond WB	point106	106	12	15	0	0	က	15	0	0	0	0
	point107	107										
Richmond EB	point108	108	0	0	0	0	0	0	0	0	0	0
	point109	109										
Charlotte WB	point110	110	30	10	0	0	0	0	0	0	0	0
	point111	111										
Charlotte EB	point112	112	9	15	က	15	0	0	0	0	0	0
	point113	113										
East WB	point114	114	216	20	2	20	0	0	0	0	2	20
	point115	115										
Broad WB	point124	124	99	15	4	15	0	0	16	15	0	0
	point125	125										
Broad EB	point129	129	276	30	0	0	0	0	4	30	0	0
	point130	130	276	30	0	0	0	0	4	30	0	0
	point131	131	276	25	0	0	0	0	4	25	0	0
	point132	132	276	20	0	0	0	0	4	20	0	0
	point133	133										

PUT: TRAFFIC FOR LAeq1h Volumes						굽	PIN 4940.T7	7	
avannah NB	point135	135	4	25	0	0	0	0	
	point136	136	4	25	0	0	0	0	
	point137	137							
avannah SB	point138	138	4	25	0	0	0	0	
	point139	139	4	25	0	0	0	0	

INPUT: TRAFFIC FOR LAeq1h Volumes						PIN	N 4940.T7					
Savannah NB	point135	135	4	25	0	0	0	0	0	0	0	0
	point136	136	4	25	0	0	0	0	0	0	0	0
	point137	137										
Savannah SB	point138	138	4	25	0	0	0	0	0	0	0	0
	point139	139	4	25	0	0	0	0	0	0	0	0
	point140	140										
Broadway NB	point141	141	29	15	0	0	0	0	0	0	0	0
	point142	142										
Broadway SB	point143	143	0	0	0	0	0	0	0	0	0	0
	point144	144										
Clinton Ramp	point145	145	416	45	9	45	2	45	8	45	2	45
	point146	146										
Clinton NB 1	point147	147	791	45	1	45	2	45	14	45	က	45
	point148	148										
Clinton NB 2	point149	149	1207	45	17	45	7	45	22	45	2	45
	point150	150	1207	35	17	35	7	35	22	35	2	35
	point151	151										
Chestnut Ramp	point152	152	0	0	0	0	0	0	0	0	0	0
	point153	153	0	0	0	0	0	0	0	0	0	0
	point154	154	0	0	0	0	0	0	0	0	0	0
	point155	155	0	0	0	0	0	0	0	0	0	0
	point156	156										
IL/Union Ramp	point157	157	0	0	0	0	0	0	0	0	0	0
	point158	158	0	0	0	0	0	0	0	0	0	0
	point159	159	0	0	0	0	0	0	0	0	0	0
	point160	160	379	35	8	35	0	0	0	0	0	0
	point161	161	379	35	8	35	0	0	0	0	0	0
	point162	162	379	35	8	35	0	0	0	0	0	0
	point163	163										
IL/Pitkin Ramp	point164	164	20	32	0	0	0	0	0	0	0	0
	point165	165	20	35	0	0	0	0	0	0	0	0
	point166	166	0	0	0	0	0	0	0	0	0	0
	point167	167	0	0	0	0	0	0	0	0	0	0
	point168	168										
Pitkin	point169	169	165	35	0	0	0	0	0	0	0	0
	point257	257	165	35	0	0	0	0	0	0	0	0

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	165	165	165	165	165	165	165	149		9	99	9	9		264	264		672	672		229		178		92	92	96	92	92
	170	258	171	172	173	174	175	176	177	193	194	195	196	197	198	199	200	208	509	210	229	230	231	232	272	218	219	220	221
	point170	point258	point171	point172	point173	point174	point175	point176	point177	point193	point194	point195	point196	point197	point198	point199	point200	point208	point209	point210	point229	point230	point231	point232	point272	point218	point219	point220	point221
INPUT: TRAFFIC FOR LAeq1h Volumes										IL Ramp to Pitkin					Monroe-Chestnut NB			Chestnut-Monroe SB			E University Ave EB		E University Ave WB		IL Ramp to Union-2-2				

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pointify and pointify of pointify and the pointify of pointify and the pointifier and the p	INPUT: TRAFFIC FOR LAeq1h Volumes						A A	PIN 4940.T7	_				
point52 52 240 15 6 15 0 point64 54 10 6 10 0 point65 24 10 6 10 0 point66 66 360 25 7 25 0 point276 276 360 25 7 25 0 point276 276 360 35 7 35 0 point286 68 360 35 7 35 0 point277 70 474 30 6 30 0 point277 77 474 30 6 30 0 point278 265 396 30 48		point51	21	240	30	9	30	0	0	0	30	0	0
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point275 275 360 35 7 35 0 point276 276 360 35 7 35 0 point77 71 474 30 6 30 0 point72 72 474 25 6 25 0 point73 73 474 25 6 25 0 point278 278 621 30 8 8 point278 278 621 40 48 40 8 point278 278 36 4		point53	53	240	10	9	10	0	0	6	10	0	0
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point276 67 36 35 7 36 0 point286 256 360 35 7 35 0 point286 256 360 35 7 35 0 point285 258 360 35 7 35 0 point290 69 379 30 5 30 0 point70 70 474 30 6 30 0 point72 72 474 25 6 25 0 point73 73 474 25 6 25 0 point74 74 474 30 6 30 0 point73 73 474 25 6 25 0 point74 74 474 30 6 30 0 point27 277 474 30 6 30 0 point280 26 336		point66	99	360	25	7	25	0	0	5	25	0	0
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93 507 30 6 30 0 94 507 25 6 25 0 95 507 25 6 25 0 96 25 0		point267	267	202	30	9	30	0	0	0	0	3	30
94 507 25 6 25 0 95 507 25 6 25 0 96 7 8 8 1 1		point93	93	202	30	9	30	0	0	0	0	3	30
95 507 25 6 25 0 96 9		point94	94	202	25	9	25	0	0	0	0	3	25
		point95	98	202	25	9	25	0	0	0	0	3	25
		point96	96										
Main EB-2 280 500 25 0 0 0 0 0	Main EB-2	point280	280	200	25	0	0	0	0	20	25	4	25

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	point98	98	200	22	0	0	0	0	20	22	4	22
	point99	66										
Main EB-2-2	point281	281	537	30	12	30	0	0	15	30	9	30
	point262	262	537	30	12	30	0	0	15	30	9	30
	point261	261	237	30	12	30	0	0	15	30	9	30
	point226	226	537	30	12	30	0	0	15	30	9	30
	point100	100										
Main WB-2	point282	282	417	25	0	0	3	25	9	25	0	0
	point263	263	417	25	0	0	က	25	9	25	0	0
	point264	264	417	25	0	0	3	25	9	25	0	0
	point103	103	348	25	4	25	0	0	20	25	0	0
	point225	225	348	25	4	22	0	0	20	25	0	0
	point104	104	348	25	4	25	0	0	20	25	0	0
	point259	259										
Main WB-2-2	point283	283	348	30	4	30	0	0	20	30	0	0
	point105	105										
East WB-2	point284	284	216	20	2	20	0	0	0	0	7	20
	point253	253	216	20	7	20	0	0	0	0	2	20
	point116	116	216	20	7	20	0	0	0	0	7	20
	point249	249	216	20	2	20	0	0	0	0	2	20
	point117	117										
East WB-2-2	point285	285	216	20	7	20	0	0	0	0	2	20
	point245	242	216	20	2	20	0	0	0	0	7	20
	point118	118										
Broad WB-2	point287	287	99	30	4	30	0	0	16	30	0	0
	point244	244	99	30	4	30	0	0	16	30	0	0
	point126	126	99	30	4	30	0	0	16	30	0	0
	point127	127	99	30	4	30	0	0	16	30	0	0
	point128	128										
Broad EB-2	point288	288	276	15	0	0	0	0	4	15	0	0
	point243	243	276	15	0	0	0	0	4	15	0	0
	point227	227	276	10	0	0	0	0	4	10	0	0
	point134	134										
Pitkin-2	point289	289	149	25	2	25	0	0	19	25	0	0
	point248	248	149	30	2	30	0	0	19	30	0	0
	point247	247	149	35	2	35	0	0	19	35	0	0
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11h Volumes
TRAFFIC FOR LAEC
INPUT: T

INPUT: TRAFFIC FOR LAeq1h Volumes						A N	PIN 4940.T7					
	point178	178	149	25	2	25	0	0	19	25	0	0
	point179	179										
Pitkin-2-2	point290	290	180	35	0	0	0	0	0	0	4	35
	point242	242	180	35	0	0	0	0	0	0	4	35
	point241	241	180	40	0	0	0	0	0	0	4	40
	point180	180	180	35	0	0	0	0	0	0	4	35
	point181	181	196	35	0	0	0	0	0	0	0	0
	point182	182	270	35	9	35	0	0	6	32	0	0
	point183	183	270	35	9	35	0	0	6	35	0	0
	point184	184	270	35	9	35	0	0	6	32	0	0
	point185	185	270	35	9	35	0	0	6	35	0	0
	point186	186	270	35	9	35	0	0	6	35	0	0
	point187	187	270	35	9	35	0	0	6	35	0	0
	point188	188	270	22	9	25	0	0	6	22	0	0
	point189	189										
Pitkin-2-2-2	point291	291	0	0	0	0	0	0	0	0	0	0
	point240	240	0	0	0	0	0	0	0	0	0	0
	point239	239	0	0	0	0	0	0	0	0	0	0
	point190	190	0	0	0	0	0	0	0	0	0	0
	point191	191	0	0	0	0	0	0	0	0	0	0
	point192	192										
Monroe-Chestnut NB-2-2-2	point294	294	228	35	0	0	0	0	9	32	0	0
	point237	237	228	35	0	0	0	0	9	35	0	0
	point205	205	228	35	0	0	0	0	9	32	0	0
	point206	206	228	35	0	0	0	0	9	35	0	0
	point207	207										
Chestnut-Monroe SB-2	point295	295	672	25	9	25	0	0	15	25	0	0
	point238	238	672	25	9	25	0	0	15	25	0	0
	point211	211	672	25	9	25	0	0	15	22	0	0
	point212	212										
Chestnut-Monroe SB-2-2	point296	596	672	30	9	30	0	0	15	30	0	0
	point235	235	672	35	9	35	0	0	15	35	0	0
	point213	213	504	30	3	30	3	30	3	30	9	30
	point214	214										
Chestnut-Monroe SB-2-2-2	point297	297	504	30	3	30	3	30	3	30	9	30
	point215	215	204	32	3	32	က	32	3	32	9	35

INPUT: TRAFFIC FOR LAeq1h Volumes						PIN	PIN 4940.T7					
	point216	216										
Haags EB/WB	point299	299	36	10	0	0	0	0	0	0	0	0
	point300	300										
East EB	point119	119	449	20	0	0	0	0	2	20	2	20
	point246	246	449	20	0	0	0	0	2	20	2	20
	point120	120	449	20	0	0	0	0	2	20	2	20
	point250	250	449	20	0	0	0	0	2	20	2	20
	point121	121										
East EB-2	point301	301	449	20	0	0	0	0	2	20	2	20
	point286	286	449	20	0	0	0	0	2	20	2	20
	point122	122	449	20	0	0	0	0	2	20	2	20
	point123	123										
Monroe-Chestnut NB-2	point292	292	264	30	0	0	0	0	0	0	3	30
	point201	201	264	35	0	0	0	0	0	0	3	35
	point302	302	228	25	0	0	0	0	9	22	0	0
	point303	303										
Monroe-Chestnut NB-2-2	point304	304	228	52	0	0	0	0	9	25	0	0
	point293	293	228	52	0	0	0	0	9	25	0	0
	point228	228	228	52	0	0	0	0	9	25	0	0
	point204	204										

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INPUT: RECEIVERS								PIN 4940.T7			
Watts						15 November 2013	ber 2013				
JKK						TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	PIN 4940.T7	40.T7									
RUN:	2013 F	ield Ve	2013 Field Verification Inner Loop Noise	er Loop Noise							
Receiver											
Name	ŏ V	#DUS Co	Coordinates (ground)	(ground)		Height	Input Sou	Input Sound Levels and Criteria	d Criteria		Active
			×	λ Σ		above	Existing	Impact Criteria	ıria		.i.
						Ground	LAeq1h	LAeq1h S	Sub'l Goal	a	Calc.
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			=	<u> </u>		ㅂ	dBA	dBA	db db		
Receiver A	11	_	1,409,838.0	1,149,594.0	1.00	4.92	56.40	99	10.0	8.0	>
Receiver B	12		1,410,833.0	1,149,476.0	00.0	4.92	64.80	99	10.0	8.0	>
Receiver C	13		1,410,370.0	1,149,874.0	1.00	4.92	29.90	99	10.0	8.0	>
Receiver D	14		1,411,136.0	1,150,240.0	1.00	4.92	66.20	99	10.0	8.0	>
Receiver E	15	_	1,410,966.0	1,150,771.0	00.00	4.92	56.10	99	10.0	8.0	Ь
Receiver F	16	_	1,411,497.0	1,151,129.0	1.00	4.92	63.40	99	10.0	8.0	>
Receiver G	17	1	1,411,904.0	1,152,155.0	00.0	4.92	64.10	99	10.0	8.0	λ
Receiver H	18	1	1,411,615.0	1,152,922.0	0.00	4.92	08'69	99	10.0	8.0	Ь
Receiver I	19	1	1,411,816.0	1,153,208.0	00.00	4.92	59.40	99	10.0	8.0	\

15 November 2013

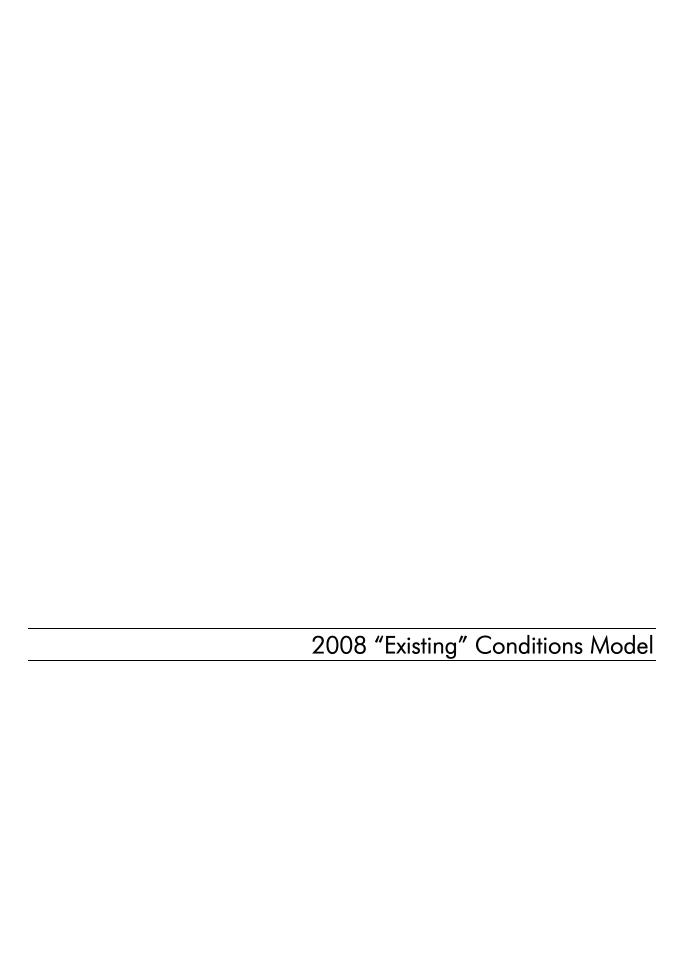
INPUT: BARRIERS

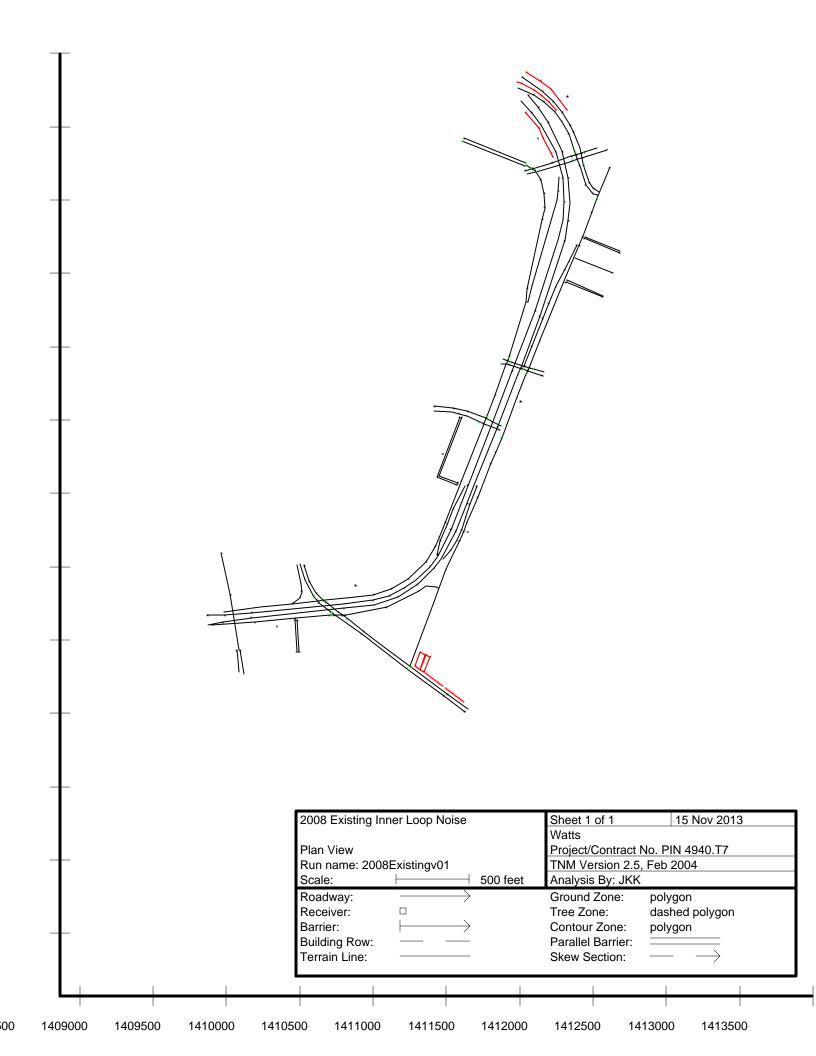
Watts					15 N	15 November 2013	. 2013											
ЭКК					Ν̈́	TNM 2.5												
INPUI: BAKKIEKS	2	DIN 49.40 T7																
RUN:	2013	Field V	erificat	ion Inn	2013 Field Verification Inner Loop Noise	Voise												
Barrier									Points									
Name	Type	Height	#	If Wall	all If Berm	ır.		Add'tnl	Name	Š	Coordinates (bottom)	; (bottom)	Ĭ	Height	Segment			
		Ē	Max	\$ per	er \$ per	Top	Run:F	Run:Rise \$ per			×		Z at		Seg Ht Perturbs	erturbs On		Important
				Chit	t Chit	Width	£	Pit					4	Point In	ucre-#U	Incre- #Up #Dn Struct? Reflec-	truct? R	eflec-
				Area				Length						E	ment		.	tions?
		¥	¥	\$/sd ft	t \$/cn yd	yd ft	ft:ft	\$/#			Ħ	#	ft ft	Ħ				
Barrier2	≥	ő	0.00	66.66	0.00			00.00	point1		1,411,532.1	1,153,099.0	0.00	0.00	0.00	0 0		
									point2	2	1,411,620.0	0 1,152,996.4	0.00	0.00	0.00	0 0		
									point3	3	1,411,653.1	1,152,926.9	0.00	0.00	0.00	0 0		
									point4	4	1,411,707.6	6 1,152,821.8	0.00	0.00	0.00	0		
									point5	5	1,411,718.1	1,152,793.8	0.00	0.00				
Barrier3	≯	0.0	0.00	66.66	0.00			0.00	point6	9	1,411,740.9	9 1,153,118.5	0.00	4.00	0.00	0 0		
									point36	36	1,411,688.8	8 1,153,173.9	0.00	4.00	0.00	0 0		
									point7	7	1,411,639.0	0 1,153,217.2	0.00	4.00	0.00	0 0		
									point8	80	1,411,588.0	0 1,153,252.5	0.00	4.00	0.00	0 0		
									point9	6	1,411,498.6	6 1,153,300.6	0.00	4.00	0.00	0 0		
									point10	10	1,411,476.1	1,153,311.1	0.00	4.00				
Barrier4	≥	0.0	00.0	66.66	0.00			00.00		7	1,411,812.5	5 1,153,117.4	0.00	0.00	0.00	0 0		
									point12	12	1,411,705.1	1,153,257.0	0.00	0.00	0.00	0 0		
									point13	13	1,411,633.0	0 1,153,317.1	0.00	0.00	0.00	0 0		
									point14	14	1,411,536.1	1,153,375.6	0.00	0.00				
Apartment Bldg	≥	00.00		66.66	0.00			00.00	point15	15	1,410,849.0	0 1,149,404.0	0.00	20.00	0.00	0 0		
									point16	16	1,410,812.0	0 1,149,419.0	0.00	20.00	0.00	0 0		
									point17	17	1,410,776.0	0 1,149,325.0	0.00	20.00	0.00	0 0		
									point18	18	1,410,809.0	0 1,149,302.0	0.00	20.00	0.00	0 0		
									point19	19	1,410,849.0	0 1,149,402.5	0.00	20.00				
Low Building	Μ	0.0	0.00	66.66	0.00			0.00	point20	20	1,410,882.9	1,149,390.1	0.00	12.00	0.00	0 0		
									point21	21			0.00	12.00	0.00	0 0		
									point22	22	1,410,809.8	1,149,302.0	0.00	12.00	0.00	0 0		
									point23	23			0.00	12.00	0.00	0 0		
									point24	24	1,410,881.4	1,149,389.1	00.00	12.00				

0.00

PIN 4940.T7

INPUT: BUILDING ROWS





RESULTS: SOUND LEVELS							PIN 4940.T7					
Watte							15 Nove	15 November 2013				
177							DAGNIC!	207				
JAK JAKA							C.Z MN Z.S	AF dainer to	40			
BESTII TS: SOLIND LEVELS							Calculat		C.2 IVI			
PROJECT/CONTRACT:		PIN 4940.T7	0.77									
RUN:		2008 E)	cisting Inn	2008 Existing Inner Loop Noise	ø							
BARRIER DESIGN:		INPUT	INPUT HEIGHTS					Average	Average pavement type shall be used unless	e shall be use	d unless	
								a State I	a State highway agency substantiates the use	y substantiate	s the use	4
ATMOSPHERICS:		68 deg	68 deg F, 50% RH	_				of a diffe	of a different type with approval of FHWA.	approval of F	HWA.	
Receiver												
Name	So.	#DUs	Existing	No Barrier					With Barrier			
			LAeq1h	LAeq1h		Increase over existing	er existing	Type	Calculated	Noise Reduction	tion	
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dВ	dВ		dBA	dВ	dВ	dB
Receiver A	1	_	56.4	. 65.3		8 99	8.9	10	65.3	0.0		8 -8.0
Receiver B	12	_	64.8	65.7		0 99	0.9	10	65.7	0.0		8 -8.0
Receiver C	13	_	29.9	6.09		66 1	1.0	10	6.09	0.0		8 -8.0
Receiver D	14	_	66.2	65.2		-1	1.0	10	65.2	0.0		8 -8.0
Receiver E	15	_	56.1	56.2		0 99	1.0	10	56.2	0.0		8 -8.0
Receiver F	16	_	63.4	64.4		66 1	1.0	10	64.4	0.0		8 -8.0
Receiver G	17	_	64.1	64.1		0 99	0.0	10	64.1	0.0		8 -8.0
Receiver H	18	_	29.8	62.8		99	3.0	10	62.8	0.0		8 -8.0
Receiver I	19	_	59.4	62.9		99	3.5	10	62.9	0.0		8 -8.0
Dwelling Units		# DNs	Noise Reduction	duction								
			Min	Avg	Max							
			dВ	dВ	ф							
All Selected		6	0.0	0.0	0.0	0						
All Impacted		0	0.0	0.0	0.0	0						
All that meet NR Goal		0	0.0	0.0	0.0	0						

		•							
			15 November 2013	2013					
			TNM 2.5						
					Avorage			700	— <u>,</u>
_					Avelage	Average pavement type snan be used unless			ĵ.
FIN 4940.17					a State n	a state nignway agency substantilates the use	cy substant	lates the l	Š
2008 Existing Inner Loo	er Loop Noise		ļ		of a diffe	of a different type with the approval of FHWA	the approv	val of FHW	⋖
Points									
Name No.		linates (p	Coordinates (pavement)		Flow Control	ntrol		Segment	
	×	<u>></u>	2		Control	Speed	Percent	Pvmt	
					Device	Constraint	Vehicles	Type	Struct?
	#	#				hom	Affected %		
0.4 O Point1	: 7	1 100 365 1	1 110 GO1 B	000		<u>.</u>	2	Avorage	
_		1 409 469 0	1 149 625 9	0.00				Average	
point3		1.409.663.0	1 149 656 2	000				Average	
point4		1,410,294.2	1,149,719.9	-20.00				Average	
point5		1,410,498.0	1,149,742.2	-10.00				Average	
point6	6 1,41	1,410,661.0	1,149,797.6	-5.00				Average	
point7	7 1,41	1,410,795.1	1,149,884.0	-3.00				Average	
point8	8 1,41	1,410,909.6	1,149,994.0	0.00				Average	
point9	9 1,41	1,410,958.1	1,150,058.4	0.00				Average	
point10	10 1,41	1,411,056.6	1,150,247.4	0.00				Average	
point11	11 1,41	1,411,135.4	1,150,438.2	0.00				Average	
point12	12 1,41	1,411,182.4	1,150,562.9	-3.00				Average	
point13	13 1,41	1,411,341.5	1,150,960.4	-20.00				Average	
point14	14,1	1,482.5	1,151,314.4	-20.00				Average	
point273	273 1,41	1,506.4	1,151,379.4	-18.00				Average	
point15	15 1,41	1,628.8	1,151,712.6	-3.00				Average	
point16	16 1,41	1,797.8	1,152,227.5	-5.00				Average	
point17	17 1,41	1,824.2	1,152,364.0	-10.00				Average	
point18	18 1,41	1,834.1	1,152,485.2	-15.00				Average	
point19	19 1,41	1,822.8	1,152,655.0	-20.00				Average	
point20	1,41	1,780.2	1,152,835.1	-20.00				Average	
point21	1,41	1,684.9	1,153,037.0	-20.00				Average	
point22	1,41	1,618.1	1,153,138.5	-20.00				Average	
point23		1,546.9	1,153,221.9	-20.00					
24.0 point24	24 1,41	1,498.4	1,153,176.4	-5.00				Average	
	oint14 oint273 oint16 oint17 oint18 oint20 oint21 oint22 oint23	3 273 3 273 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8	3 273 1,411,482.5 15 1,411,628.8 16 1,411,797.8 17 1,411,824.2 17 1,411,824.2 18 1,411,824.2 19 1,411,822.8 20 1,411,684.9 21 1,411,684.9 22 1,411,646.9 23 1,411,498.4	. 14 1,411,482.5 1,151,314.4 3 273 1,411,506.4 1,151,379.4 1 15 1,411,628.8 1,151,712.6 1 16 1,411,797.8 1,152,227.5 1 1,411,824.2 1,152,364.0 1 1,411,824.1 1,152,485.2 1 1,411,834.1 1,152,485.2 2 1,411,684.9 1,152,635.1 2 1,411,684.9 1,153,138.5 2 1,411,646.9 1,153,138.5 2 1,411,546.9 1,153,176.4	3 273 1,411,482.5 1,151,379.4 1 1,411,628.8 1,151,379.4 1 1,411,628.8 1,151,712.6 1 1,411,797.8 1,152,227.5 1 1,411,824.2 1,152,485.2 1 1,411,824.2 1,152,485.2 1 1,411,822.8 1,152,485.2 2 1,411,822.8 1,152,835.1 2 1,411,684.9 1,153,138.5 2 1,411,546.9 1,153,138.5 2 1,411,498.4 1,153,176.4	3 273 1,411,482.5 1,151,379.4 1 1,411,628.8 1,151,772.6 1 1,411,628.8 1,151,712.6 1 1,411,797.8 1,152,227.5 1 1,411,824.2 1,152,485.2 1 1,411,822.8 1,152,485.2 1 1,411,822.8 1,152,485.2 2 1,411,822.8 1,152,835.1 2 1,411,684.9 1,153,138.5 2 1,411,546.9 1,153,138.5 2 1,411,546.9 1,153,176.4	3 273 1,411,482.5 1,151,379.4 1 1,411,628.8 1,151,772.6 1 1,411,628.8 1,151,712.6 1 1,411,797.8 1,152,227.5 1 1,411,824.2 1,152,485.2 1 1,411,822.8 1,152,485.2 1 1,411,822.8 1,152,485.2 2 1,411,822.8 1,152,835.1 2 1,411,684.9 1,153,138.5 2 1,411,546.9 1,153,138.5 2 1,411,546.9 1,153,176.4	3 273 1,411,482.5 1,151,314.4 -20.00 3 273 1,411,606.4 1,151,379.4 -18.00 4 1,411,628.8 1,151,712.6 -3.00 5 1,411,797.8 1,152,227.5 -5.00 6 1,411,824.2 1,152,485.2 -15.00 7 1,411,822.8 1,152,835.1 -20.00 8 1,411,780.2 1,152,835.1 -20.00 9 1,411,618.1 1,153,138.5 -20.00 22 1,411,546.9 1,153,221.9 -20.00 23 1,411,498.4 1,153,176.4 -5.00

INPUT: ROADWAYS				YIN 48	PIN 4940.17	
	point25	25 1,411,574.1	1,153,098.4	-10.00		Average
	point26	26 1,411,639.4	1,153,015.8	-10.00		Average
	point27	27 1,411,737.1	1,152,827.8	-20.00		Average
	point28	28 1,411,784.1	1,152,652.4	-20.00		Average
	point29	29 1,411,796.2	1,152,488.2	-15.00		Average
	point30	30 1,411,785.6	1,152,369.2	-10.00		Average
	point31	31 1,411,752.2	1,152,228.6	-5.00		Average
	point32	32 1,411,597.6	1,151,746.4	-3.00		Average
	point33	33 1,411,440.8	1,151,334.6	-20.00		Average
	point34	34 1,411,301.4	1,150,977.6	-20.00		Average
	point35	35 1,411,136.1	1,150,553.6	-3.00		Average
	point36	36 1,411,020.2	1,150,256.1	0.00		Average
	point37	37 1,410,932.4	1,150,075.2	0.00		Average
	point38	38 1,410,877.8	1,150,001.0	00.0		Average
	point39	39 1,410,782.4	1,149,909.2	-3.00		Average
	point40	40 1,410,701.2	1,149,856.2	-4.00		Average
	point41	41 1,410,602.0	1,149,804.6	-6.00		Average
	point42	42 1,410,489.0	1,149,772.8	-10.00		Average
	point43	43 1,410,289.0	1,149,749.0	-20.00		Average
	point233	233 1,409,659.6	1,149,689.2	0.00		Average
	point44	1,409,478.1	1,149,672.0	0.00		Average
	point45	45 1,409,359.8	1,149,672.0	0.00		
Howell 24.0	point46	46 1,409,387.1	1,149,606.0	0.00		Average
	point47	47 1,409,688.0	1,149,625.0	0.00		Average
	point48	48 1,409,963.1	1,149,651.5	0.00		Average
	point49	49 1,410,198.0	1,149,672.8	0.00		
Union 24.0			1,149,327.0	0.00 Signal	0.00	Average
	point56	56 1,410,909.6	1,149,765.4	0.00		Average
	point57		1,149,859.4	0.00		Average
	point58	58 1,410,990.6	1,149,987.5	0.00		Average
	point59	59 1,411,083.9	1,150,183.9	0.00		Average
	point298	298 1,411,109.2	1,150,244.5	0.00		Average
	point60	60 1,411,134.6	1,150,305.1	0.00		Average
	point61	1,411,168.1	1,150,386.0	0.00		Average
	point62	62 1,411,204.6	1,150,479.2	0.00		Average
	point63	63 1,411,296.2	1,150,709.8	0.00		Average
	point64	64 1,411,330.4	1,150,787.1	0.00		Average
	point65			0.00		
University NB 24.0	point75	75 1,412,034.9	1,152,560.5	0.00 Signal	0.00	Average

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	point76	76 1,411,993.0	1,152,583.1	0.00		Average	
	point77	77 1,411,963.8	1,152,623.2	0.00		Average	
	point78	78 1,411,925.9	1,152,747.1	0.00			
University SB 24.0	point86	86 1,411,477.6	1,153,270.6	-7.00		Average	>
	point87	1,411,589.1	1,153,219.1	-5.00		Average	
	point88	88 1,411,658.9	1,153,175.1	-3.00		Average	
	point89	89 1,411,733.9	1,153,103.9	0.00		Average	
	point90	90 1,411,781.6	1,153,036.4	0.00		Average	
	point91	91 1,411,824.9	1,152,951.5	0.00		Average	
	point92	92 1,411,870.4	1,152,827.1	0.00			
Main EB 36.0	point97	97 1,411,544.4	1,152,678.9	0.00		Average	
	point260	260 1,411,605.2	1,152,696.0	0.00			
Main WB 36.0	point101	101 1,412,018.1	1,152,857.0	0.00		Average	
	point102	102 1,411,928.9	1,152,828.2	0.00			
Richmond WB 12.0	point106	106 1,412,175.0	1,152,156.9	0.00		Average	
	point107	107 1,411,936.2	1,152,252.4	0.00			
Richmond EB 12.0	point108	108 1,411,929.5	1,152,241.8	0.00 Onramp	10.00	Average	
	point109	109 1,412,172.8	1,152,144.8	0.00			
Charlotte WB 12.0	point110	110 1,412,062.1	1,151,851.6	0.00		Average	
	point111	111 1,411,811.1	1,151,954.8	0.00			
Charlotte EB 12.0	point112	112 1,411,805.1	1,151,941.9	0.00 Onramp	10.00	Average	
	point113	113 1,412,059.9	1,151,840.2	0.00			
East WB 24.0	point114	114 1,411,654.1	1,151,328.5	0.00		Average	
	point115	115 1,411,586.6	1,151,352.0	0.00			
Broad WB 36.0	point124	124 1,411,367.4	1,150,965.6	0.00 Signal	0.00	Average	>
	point125	125 1,411,283.2	1,151,005.9	0.00			
Broad EB 36.0	point129	129 1,410,906.5	1,151,068.0	0.00		Average	
	point130	130 1,411,032.2	1,151,057.4	0.00		Average	
	point131	131 1,411,080.9	1,151,046.8	0.00		Average	
	point132	132 1,411,129.4	1,151,028.6	0.00		Average	
	point133	133 1,411,218.0	1,150,988.4	0.00			
Savannah NB 12.0	point135	135 1,411,070.2	1,150,573.0	0.00 Onramp	10.00	Average	
	point136	136 1,410,942.9	1,150,623.8	0.00		Average	
	point137	137 1,411,096.8	1,151,021.0	0.00			
Savannah SB 12.0	point138	138 1,411,081.6	1,151,021.0	0.00 Onramp	10.00	Average	
	point139	139 1,410,928.5	1,150,613.1	0.00		Average	
	point140	140 1,411,064.1	1,150,560.9	0.00			
Broadway NB 12.0	point141	141 1,409,987.6		0.00 Onramp	10.00	Average	
	point142	142 1,409,974.8	1,149,639.1	0.00			

INPUT: ROADWAYS			ŀ		_	- 1	<u>ග</u>)			
Broadway SB	12.0	point143	143	1,409,958.0	1,149,637.6		Onramp 10	10.00	100	Average	
		point144	144	1,409,970.9	1,149,420.1	0.00					
Clinton Ramp	24.0		145	1,409,608.5	1,149,271.5	20.00				Average	
		point146	146	1,409,586.6	1,149,435.2	20.00					
Clinton NB 1	24.0	point147	147	1,409,575.2	1,149,285.9	20.00				Average	
		point148	148	1,409,562.4	1,149,433.0	20.00					
Clinton NB 2	48.0	point149	149	1,409,575.2	1,149,436.0	20.00				Average	>
		point150	150	1,409,518.0	1,149,815.6	20.00				Average	
		point151	151	1,409,457.0	1,150,098.6	20.00					
Chestnut Ramp	24.0	point152	152	1,409,975.0	1,150,015.6	0.00				Average	
		point153	153	1,410,001.6	1,149,888.2	00.00				Average	
		point154	154	1,410,006.1	1,149,831.4	00.00				Average	
		point155	155	1,409,992.5	1,149,792.0	0.00				Average	
		point156	156	1,409,938.6	1,149,750.2	00.00					
IL/Union Ramp	12.0	point157	157	1,410,965.6	1,150,054.4	00.00				Average	
		point158	158	1,411,022.5	1,150,120.2	00.00				Average	
		point159	159	1,411,065.6	1,150,186.2	00.00				Average	
		point160	160	1,411,096.8	1,150,259.0	00.00				Average	
		point161	161	1,411,127.1	1,150,347.0	00.00				Average	
		point162	162	1,411,152.1	1,150,433.4	0.00				Average	
		point163	163	1,411,197.6	1,150,554.6	00.00					
IL/Pitkin Ramp	12.0		164	1,411,117.2	1,150,552.4	00.00				Average	
		point165	165	1,411,036.1	1,150,394.0	00.0				Average	
		point166	166	1,410,993.6	1,150,287.9	00.00				Average	
		point167	167	1,410,950.5	1,150,177.9	00.00				Average	
		point168	168	1,410,928.5	1,150,084.6	0.00					
Pitkin	24.0		169	1,411,535.2	1,152,739.9	0.00	Signal 0.00	00	20	Average	
		point257	257	1,411,575.9	1,152,717.5	0.00				Average	
		point170	170	1,411,601.2	1,152,703.5	00.00				Average	
		point258	258	1,411,605.2	1,152,696.0	00.00				Average	
		point171	171	1,411,634.5	1,152,639.8	00.00				Average	
		point172	172	1,411,659.6	1,152,545.8	00.00				Average	
		point173	173	1,411,661.9	1,152,451.0	00.00				Average	
		point174	174	1,411,645.9	1,152,368.4	00.00				Average	
		point175	175	1,411,544.4	1,151,898.0	00.00				Average	
		point176	176	1,411,537.5	1,151,806.1	0.00				Average	
		point177	177	1,411,418.4	1,151,433.5	00.00					
IL Ramp to Pitkin	12.0	point193	193	1,411,762.9	1,152,658.4	-20.00				Average	
		point194	194	1,411,756.0	1,152,562.1	-15.00				Average	

INPUT: ROADWAYS				PIN 4	PIN 4940.T7		
	point195	195 1,411,744.6	1,152,504.5	-13.00		`	Average
	point196	196 1,411,573.1	1,151,916.9	0.00			Average
	point197	197 1,411,545.9	1,151,805.5	0.00			
Monroe-Chestnut NB 12.0	point198	198 1,411,136.8	1,149,032.6	0.00			Average
	point199	199 1,410,995.0	1,149,135.8	0.00			Average
	point200	200 1,410,752.4	1,149,316.1	0.00			
Chestnut-Monroe SB 24.0	point208	208 1,409,994.6	1,150,018.2	0.00			Average
	point209	209 1,410,028.0	1,149,911.4	0.00			Average
	point210	210 1,410,088.6	1,149,797.6	0.00			
E University Ave EB 24.0		229 1,411,100.0	1,152,904.0	0.00 Signal	0.00	20	Average
	point230	230 1,411,527.0	1,152,734.0	0.00			
E University Ave WB 24.0	point231	231 1,411,535.0	1,152,755.0	0.00 Signal	00.00	20	Average
	point232	232 1,411,109.0	1,152,924.0	0.00			
IL Ramp to Union-2-2	point272	272 1,411,523.0	1,151,369.1	-20.00			Average
	point218	218 1,411,575.2	1,151,507.8	-10.00			Average
	point219	219 1,411,647.2	1,151,698.8	-3.00		'	Average
	point220	220 1,411,689.9	1,151,802.8	0.00			Average
	point221	221 1,411,739.9	1,151,916.5	0.00			Average
	point222	1,411,800.6	1,152,030.2	0.00		'	Average
	point223	223 1,411,829.4	1,152,087.0	0.00			Average
	point224	224 1,411,879.4	1,152,199.2	0.00			
Howell-2 24.0	point274	274 1,410,198.0	1,149,672.8	0.00 Signal	0.00	09	Average
	point236	236 1,410,232.5	1,149,672.2	0.00		'	Average
	point234	234 1,410,283.4	1,149,672.2	0.00		'	Average
	point50	50 1,410,307.2	1,149,672.0	0.00		_	Average
	point51	51 1,410,585.4	1,149,727.4	0.00		_	Average
	point52	52 1,410,805.0	1,149,840.1	0.00		`	Average
	point53	53 1,410,854.2	1,149,873.5	0.00		`	Average
	point54	54 1,410,930.1		0.00			
Union-2 24.0	point275			0.00 Signal	0.00	, 40	Average
	point66	66 1,411,473.6	1,151,161.6	0.00		<u>'</u>	Average
	point67	67 1,411,536.6	1,151,315.6	0.00			
Union-2-2 24.0		276 1,411,536.6	1,151,315.6	0.00 Signal	0.00	20	Average
	point256		1,151,339.1	0.00		`	Average
	point255	255 1,411,553.8	1,151,360.5	0.00		`	Average
	point68	68 1,411,630.6	1,151,549.9	0.00			Average
	point69	69 1,411,794.5	1,151,951.8	0.00			Average
	point70	70 1,411,899.1	1,152,194.8	0.00		`	Average
	point71	71 1,411,921.1	1,152,255.4	0.00		`	Average

INPUT: ROADWAYS	•					PIN 4	PIN 4940.T7			
		point72	72	1,411,982.5	1,152,422.1	0.00			Average	
		point73	73	1,412,020.4	1,152,514.5	0.00				
Union-2-2-2	24.0	point277	277	1,412,020.4	1,152,514.5	0.00 Signal	0.00	09	Average	
		point74	74	1,412,104.5	1,152,725.1	0.00				
University NB-2	24.0	point278	278	1,411,925.9	1,152,747.1	0.00 Signal	0.00	20	Average	
		point265	265	1,411,916.5	1,152,791.4	0.00			Average	
		point266	266	1,411,910.0	1,152,822.2	0.00			Average	
		point79	79	1,411,902.1	1,152,859.8	0.00			Average	
		point80	80	1,411,858.1	1,152,971.9	0.00			Average	
		point81	81	1,411,836.2	1,153,015.9	0.00			Average	
		point82	82	1,411,779.4	1,153,103.9	0.00			Average	
		point83	83	1,411,718.8	1,153,176.6	-3.00			Average	
		point84	84	1,411,642.9	1,153,250.1	-10.00			Average	
		point85	85	1,411,508.0	1,153,343.4	-20.00				
University SB-2	24.0	point279	279	1,411,870.4	1,152,827.1	0.00 Signal	0.00	20	Average	
		point268	268	1,411,875.6	1,152,811.1	0.00			Average	
		point267	267	1,411,885.1	1,152,781.4	0.00			Average	
		point93	93	1,411,900.6	1,152,733.5	0.00			Average	
		point94	94	1,411,941.2	1,152,604.8	0.00			Average	
		point95	92	1,411,994.1	1,152,547.6	0.00			Average	
		point96	96	1,412,025.8	1,152,535.4	0.00				
Main EB-2	36.0	point280	280	1,411,605.2	1,152,696.0	0.00 Signal	0.00	20	Average	
		point98	98	1,411,722.0	1,152,729.1	0.00			Average	\
		point99	66	1,411,855.6	1,152,772.1	0.00				
Main EB-2-2	36.0	point281	281	1,411,855.6	1,152,772.1	0.00 Signal	0.00	20	Average	
		point262	262	1,411,885.1	1,152,781.4	0.00			Average	
		point261	261	1,411,916.5	1,152,791.4	0.00			Average	
		point226	226	1,411,958.5	1,152,804.8	0.00			Average	
		point100	100	1,412,090.1	1,152,847.1	0.00				
Main WB-2	36.0	point282	282	1,411,928.9	1,152,828.2	0.00 Signal	0.00	20	Average	
		point263	263	1,411,910.0	1,152,822.2	0.00			Average	
		point264	264	1,411,875.6	1,152,811.1	0.00			Average	
		point103	103	1,411,841.0	1,152,800.2	0.00			Average	>
		point225	225	1,411,710.5	1,152,759.0	0.00			Average	
		point104	104	1,411,575.9	1,152,717.5	0.00			Average	
		point259	259	1,411,570.9	1,152,716.0	0.00				
Main WB-2-2	36.0	point283	283	1,411,570.9	1,152,716.0	0.00 Signal	0.00	20	Average	
		point105	105	1,411,525.4	1,152,703.1	0.00				
East WB-2	24.0	point284	284	1,411,586.6	1,151,352.0	0.00 Signal	0.00	20	Average	

INPUT: ROADWAYS										
		point253	253	1,411,553.8	1,151,360.5	0.00			Average	
		point116	116	1,411,522.5	1,151,368.5	0.00			Average	
		point249	249	1,411,513.1	1,151,371.6	00.00			Average	>
		point117	117	1,411,433.5	1,151,398.2	0.00				
East WB-2-2	24.0	point285	285	1,411,433.5	1,151,398.2	0.00 Signal	0.00	20	Average	
		point245	245	1,411,408.6	1,151,408.2	0.00			Average	
		point118	118	1,411,374.4	1,151,421.8	00.00				
Broad WB-2	36.0	point287	287	1,411,283.2	1,151,005.9	0.00 Signal	0.00	20	Average	
		point244	244	1,411,260.6	1,151,014.6	00.00			Average	
		point126	126	1,411,135.4	1,151,061.9	00.00			Average	
		point127	127	1,411,037.6	1,151,083.1	0.00			Average	
		point128	128	1,410,908.0	1,151,096.0	00.00				
Broad EB-2	36.0	point288	288	1,411,218.0	1,150,988.4	0.00 Signal	0.00	20	Average	
		point243	243	1,411,246.6	1,150,976.9	00.00			Average	
		point227	227	1,411,270.2	1,150,967.5	0.00			Average	>
		point134	134	1,411,356.8	1,150,933.8	0.00				
Pitkin-2	24.0		289	1,411,418.4	1,151,433.5	0.00 Signal	0.00	20	Average	
		point248	248	1,411,408.6	1,151,408.2	0.00			Average	
		point247	247	1,411,399.9	1,151,383.8	0.00			Average	
		point178	178	1,411,322.9	1,151,172.0	0.00			Average	
		point179	179	1,411,266.0	1,151,027.9	0.00				
Pitkin-2-2	24.0	point290	290	1,411,266.0	1,151,027.9	0.00 Signal	0.00	20	Average	
		point242	242	1,411,260.6	1,151,014.6	0.00			Average	
		point241	241	1,411,246.6	1,150,976.9	0.00			Average	
		point180	180	1,411,089.4	1,150,580.9	0.00			Average	
		point181	181	1,410,984.4	1,150,303.0	0.00			Average	
		point182	182	1,410,940.4	1,150,199.9	0.00			Average	
		point183	183	1,410,916.9	1,150,137.8	0.00			Average	
		point184	184	1,410,854.0	1,150,033.9	0.00			Average	
		point185	185	1,410,729.1	1,149,917.4	0.00			Average	
		point186	186	1,410,616.2	1,149,853.0	0.00			Average	
		point187	187	1,410,494.1	1,149,812.9	0.00			Average	
		point188	188	1,410,306.1	1,149,788.5	0.00			Average	
		point189	189	1,410,161.4	1,149,774.9	0.00				
Pitkin-2-2-2	24.0	_	291	1,410,161.4	1,149,774.9	0.00 Signal	0.00	50	Average	
		point240	240	1,410,151.0	1,149,773.9	0.00			Average	
		point239	239	1,410,113.0	1,149,769.2	0.00			Average	
		point190	190	1,409,937.8	1,149,748.4	0.00			Average	
		point191	191	1,409,717.5	1,149,727.1	0.00			Average	

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	point192	192	1,409,476.6	1,149,693.9	0.00				
Monroe-Chestnut NB-2		292	1,410,752.4	1,149,316.1	0.00 Signal	0.00	20	Average	
	point201	201	1,410,564.6	1,149,457.2	0.00			Average	
	point202	202	1,410,425.9	1,149,562.6	0.00			Average	
	point302	302	1,410,312.8	1,149,649.9	0.00				
Monroe-Chestnut NB-2-2-2		294	1,410,167.5	1,149,761.1	0.00 Signal	0.00	20	Average	
	point237	237	1,410,151.0	1,149,773.9	0.00			Average	
	point205	205	1,410,104.5	1,149,827.1	0.00			Average	
	point206	206	1,410,057.5	1,149,905.2	0.00			Average	
	point207	207	1,410,022.6	1,150,011.4	0.00				
Chestnut-Monroe SB-2 24.0		295	1,410,088.6	1,149,797.6	0.00 Signal	0.00	20	Average	
	point238	238	1,410,113.0	1,149,769.2	0.00			Average	
	point211	211	1,410,123.2	1,149,755.8	0.00			Average	>
	point212	212	1,410,206.2	1,149,691.5	0.00				
Chestnut-Monroe SB-2-2	point296	296	1,410,206.2	1,149,691.5	0.00 Signal	0.00	20	Average	
	point235	235	1,410,232.5	1,149,672.2	0.00			Average	
	point213	213	1,410,414.9	1,149,541.8	0.00			Average	
	point214	214	1,410,725.8	1,149,308.2	0.00				
Chestnut-Monroe SB-2-2-2		297	1,410,725.8	1,149,308.2	0.00 Signal	0.00	20	Average	
	point215	215	1,410,974.0	1,149,122.5	0.00			Average	
	point216	216	1,411,119.5	1,149,011.8	0.00				
Haags EB/WB 12.0	point299	299	1,411,872.0	1,152,106.0	0.00			Average	
	point300	300	1,412,129.0	1,152,004.0	0.00				
East EB 24.0) point119	119	1,411,366.0	1,151,388.4	0.00 Signal	0.00	20	Average	
	point246	246	1,411,399.9	1,151,383.8	0.00			Average	
	point120	120	1,411,425.1	1,151,380.8	0.00			Average	>
	point250	250	1,411,509.6	1,151,352.2	0.00			Average	
	point121	121	1,411,515.8	1,151,350.2	0.00				
East EB-2 24.0	point301	301	1,411,515.8	1,151,350.2	0.00 Signal	0.00	20	Average	
	point286	286	1,411,546.0	1,151,339.1	0.00			Average	
	point122	122	1,411,591.9	1,151,322.4	0.00			Average	
	point123	123	1,411,650.2	1,151,306.5	0.00				
Monroe-Chestnut NB-2-2		303	1,410,312.8	1,149,649.9	0.00 Signal	0.00	20	Average	
	point293	293	1,410,283.4	1,149,672.2	0.00			Average	
	point228	228	1,410,251.6	1,149,696.4	0.00			Average	>
	point204	204	1,410,167.5	1,149,761.1	0.00				

INPUT: TRAFFIC FOR LAeq1h Volumes

Watts				15 Nov	15 November 2013	013						
ЛКК				TNM 2.5	2		_					
INPUT: TRAFFIC FOR LAea1h Volumes												
PROJECT/CONTRACT:	PIN 4940.T7											
RUN:	2008 Existing Inner Loop Noise	Inner L	oop Nois	Φ								
Roadway	Points											
Name	Name	No.	Segment									
			Autos	1	MTrucks		HTrucks	S	Buses		Motorcycles	/cles
					>	S	>	တ	>	တ	>	တ
			veh/hr	mbh	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Inner Loop EB	point1	_	222	20	0		0	0	0	1 50		3 50
	point2	2	222	20	0		0	0	0	1 50		3 50
	point3	3	222	20	0		0	0	0	1 50	(,)	3 50
	point4	4	222	20	0		0	0	0	1 50		3 50
	point5	5	222	20	0		0	0	0	1 50		3 50
	point6	9	222	20	0		0	0	0	1 50		3 50
	point7	7	222	20	0		0	0	0	1 50		3 50
	point8	8	222	20	0		0	0	0	1 50		3 50
	point9	6	200	20	0		0	0	0	1 50	2	50
	point10	10	200	20	0		0	0	0	1 50		2 50
	point11	11	200	20	0		0	0	0	1 50		2 50
	point12	12	413	20	0		0	0	0	2 50		5 50
	point13	13	413	20	0		0	0	0	2 50		5 50
	point14	14	413	20	0		0	0	0	2 50		5 50
	point273	273	220	20	0		0	0	0	1 50		3 50
	point15	15	220	20	0		0	0	0	1 50		3 50
	point16	16	220	20	0		0	0	0	1 50		3 50
	point17	17	220	20	0		0	0	0	1 50		3 50
	point18	18	220	20	0		0	0	0	1 50		3 50
	point19	19	220	20	0		0	0	0	1 50		3 50
	point20	20	220	20	0		0	0	0	1 50		3 50
	point21	21	220	20	0		0	0	0	1 50		3 20
	point22	22	220	20	0		0	0	0	1 50		3 50

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INPUT: TRAFFIC FOR LAeq1h Volumes			-	•	•	PIN	PIN 4940.T7		-	•		
	point23	23										
Inner Loop WB	point24	24	366	20	6	20	0	0	0	0	0	0
	point25	25	366	20	6	20	0	0	0	0	0	0
	point26	26	366	20	6	20	0	0	0	0	0	0
	point27	27	366	20	6	20	0	0	0	0	0	0
	point28	28	218	20	9	20	0	0	0	0	0	0
	point29	29	218	20	9	20	0	0	0	0	0	0
	point30	30	218	20	9	20	0	0	0	0	0	0
	point31	31	218	20	9	20	0	0	0	0	0	0
	point32	32	218	20	9	20	0	0	0	0	0	0
	point33	33	218	20	9	20	0	0	0	0	0	0
	point34	34	218	20	9	20	0	0	0	0	0	0
	point35	35	175	20	4	20	0	0	0	0	0	0
	point36	36	175	20	4	20	0	0	0	0	0	0
	point37	37	457	20	12	20	0	0	0	0	0	0
	point38	38	457	20	12	20	0	0	0	0	0	0
	point39	39	457	20	12	20	0	0	0	0	0	0
	point40	40	457	20	12	20	0	0	0	0	0	0
	point41	41	457	20	12	20	0	0	0	0	0	0
	point42	42	457	20	12	20	0	0	0	0	0	0
	point43	43	457	20	12	20	0	0	0	0	0	0
	point233	233	457	20	12	20	0	0	0	0	0	0
	point44	44	1682	20	43	20	0	0	0	0	0	0
	point45	45										
Howell	point46	46	131	35	3	35	0	0	2	35	0	0
	point47	47	131	35	3	35	0	0	2	35	0	0
	point48	48	131	30	3	30	0	0	2	30	0	0
	point49	49										
Union	point55	22	348	25	3	25	8	25	0	0	2	22
	point56	99	348	30	3	30	8	30	0	0	2	30
	point57	22	426	30	6	30	0	0	0	0	0	0
	point58	28	426	35	6	35	0	0	0	0	0	0
	point59	29	426	32	6	35	0	0	0	0	0	0
	point298	298	215	35	2	35	0	0	0	0	0	0
	point60	09	215	35	2	32	0	0	0	0	0	0
	point61	61	215	35	2	35	0	0	0	0	0	0
		-		_			=	-		_]

UT: TRAFFIC FOR LAeq1h Volumes					
	point62	62	215	35	
	point63	63	215	30	
	point64	64	215	25	
	point65	99			
niversity NB	point75	75	621	30	
	point76	92	621	30	
	point77	77	621	25	
	point78	78			
niversity SB	point86	86	629	45	
	point87	87	629	40	
	point88	88	629	35	
	point89	89	629	25	
	point90	06	629	15	
	point91	91	629	10	
	point92	92			
ain EB	point97	97	471	25	
	point260	260			
ain WB	point101	101	905	25	
	point102	102			
chmond WB	point106	106	12	15	
	point107	107			
chmond EB	point108	108	0	0	
	point109	109			

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INPUT: TRAFFIC FOR LAeq1h Volumes						A N	PIN 4940.T7					
	point62	62	215	35	2	32	0	0	0	0	0	
	point63	63	215	30	2	30	0	0	0	0	0	
	point64	64	215	25	2	25	0	0	0	0	0	
	point65	99										
University NB	point75	75	621	30	8	30	0	0	0	0	4	
	point76	92	621	30	8	30	0	0	0	0	4	
	point77	77	621	25	80	25	0	0	0	0	4	
	point78	78										
University SB	point86	98	629	45	15	45	2	45	20	45	0	
	point87	87	629	40	15	40	2	40	20	40	0	
	point88	88	629	35	15	35	2	35	20	32	0	
	point89	89	629	25	15	25	2	25	20	25	0	
	point90	06	629	15	15	15	2	15	20	15	0	
	point91	91	629	10	15	10	2	10	20	10	0	
	point92	92										
Main EB	point97	6	471	25	10	25	0	0	13	25	9	
	point260	260										
Main WB	point101	101	905	25	0	0	9	25	13	25	0	
	point102	102										
Richmond WB	point106	106	12	15	0	0	က	15	0	0	0	
	point107	107										
Richmond EB	point108	108	0	0	0	0	0	0	0	0	0	
	point109	109										
Charlotte WB	point110	110	30	10	0	0	0	0	0	0	0	
	point111	111										
Charlotte EB	point112	112	9	15	3	15	0	0	0	0	0	
	point113	113										
East WB	point114	114	338	20	4	20	0	0	0	0	4	
	point115	115										
Broad WB	point124	124	25	15	4	15	0	0	15	15	0	
	point125	125										
Broad EB	point129	129	294	30	0	0	0	0	4	30	0	
	point130	130	294	30	0	0	0	0	4	30	0	
	point131	131	294	25	0	0	0	0	4	25	0	
	point132	132	294	20	0	0	0	0	4	20	0	
	point133	133										

INPUT: TRAFFIC FOR LAeq1h Volumes				-		PN	PIN 4940.T7	
Savannah NB	point135	135	4	22	0	0	0	0
	point136	136	4	25	0	0	0	0
	point137	137						
Savannah SB	point138	138	4	25	0	0	0	0
	point139	139	4	25	0	0	0	0
	point140	140						
Broadway NB	point141	141	29	15	0	0	0	0
	point142	142						
Broadway SB	point143	143	0	0	0	0	0	0
	point144	144						
Clinton Ramp	point145	145	547	45	7	45	4	45
	point146	146						
Clinton NB 1	point147	147	1040	45	14	45	7	45
	point148	148						
Clinton NB 2	point149	149	1588	45	22	45	6	45
	point150	150	1588	35	22	35	6	35
	point151	151						
Chestnut Ramp	point152	152	903	30	∞	30	0	0
	point153	153	903	30	∞	30	0	0
	point154	154	903	25	∞	25	0	0
	point155	155	903	30	∞	30	0	0
	point156	156						
IL/Union Ramp	point157	157	26	35	_	35	0	0
	point158	158	26	35	_	35	0	0
	point159	159	26	35	_	35	0	0
	point160	160	203	35	4	35	0	0
	point161	161	203	35	4	32	0	0
	point162	162	203	35	4	35	0	0
	point163	163						
IL/Pitkin Ramp	point164	164	45	32	0	0	0	0
	point165	165	45	35	0	0	0	0
	point166	166	283	32	0	0	0	0
	point167	167	283	35	0	0	0	0
	point168	168						
Pitkin	point169	169	126	35	0	0	0	0
	point257	257	126	35	0	0	0	0
		-	-			-		

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INPUT: TRAFFIC FOR LAeq1h Volumes					٠	E E	PIN 4940.T7	7		
	point170	170	165	35	0	0	0	0	0	
	point258	258	126	32	0	0	0	0	0	
	point171	171	126	40	0	0	0	0	0	
	point172	172	126	40	0	0	0	0	0	
	point173	173	126	40	0	0	0	0	0	
	point174	174	126	40	0	0	0	0	0	
	point175	175	126	35	0	0	0	0	0	
	point176	176	290	35	5	35	0	0	37	
	point177	177								
IL Ramp to Pitkin	point193	193	148	45	2	45	0	0	0	
	point194	194	148	45	2	45	0	0	0	
	point195	195	148	40	2	40	0	0	0	
	point196	196	148	35	2	35	0	0	0	
	point197	197								
Monroe-Chestnut NB	point198	198	809	35	0	0	0	0	0	
	point199	199	262	30	0	0	0	0	0	
	point200	200								
Chestnut-Monroe SB	point208	208	410	35	_	35	_	35	3	
	point209	209	410	25	_	25	_	25	3	
	point210	210								
E University Ave EB	point229	229	229	30	0	0	0	0	0	
	point230	230								
E University Ave WB	point231	231	178	30	0	0	0	0	0	
	point232	232								
IL Ramp to Union-2-2	point272	272	202	35	3	35	0	0	0	
	point218	218	202	35	3	35	0	0	0	
	point219	219	202	32	3	32	0	0	0	
	point220	220	202	32	3	32	0	0	0	
	point221	221	202	35	3	35	0	0	0	
	point222	222	202	35	3	35	0	0	0	
	point223	223	202	35	3	35	0	0	0	

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point223 point224 point274 point236 point234 point50

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INPUT: TRAFFIC FOR LAeq1h Volumes						A N	PIN 4940.T7					
	point51	51	99	30	2	30	0	0	2	30	0	0
	point52	52	99	15	2	15	0	0	2	15	0	0
	point53	53	99	10	2	10	0	0	2	10	0	0
	point54	54										
Union-2	point275	275	329	35	7	35	0	0	4	35	0	0
	point66	99	329	25	7	25	0	0	4	25	0	0
	point67	29										
Union-2-2	point276	276	329	35	7	35	0	0	4	35	0	0
	point256	256	311	35	4	35	0	0	0	0	2	35
	point255	255	311	35	4	35	0	0	0	0	2	35
	point68	89	311	35	4	35	0	0	0	0	2	35
	point69	69	311	30	4	30	0	0	0	0	2	30
	point70	20	513	30	9	30	0	0	0	0	က	30
	point71	71	513	30	9	30	0	0	0	0	က	30
	point72	72	513	25	9	25	0	0	0	0	က	25
	point73	73										
Union-2-2-2	point277	277	273	30	3	30	0	0	0	0	2	30
	point74	74										
University NB-2	point278	278	621	30	8	30	0	0	0	0	4	30
	point265	265	811	30	42	30	7	30	က	30	က	30
	point266	266	811	30	42	30	7	30	3	30	က	30
	point79	79	811	40	42	40	7	40	က	40	က	40
	point80	80	811	40	42	40	7	40	က	40	က	40
	point81	81	811	40	42	40	7	40	3	40	က	40
	point82	82	811	40	42	40	7	40	3	40	က	40
	point83	83	811	45	42	45	7	45	3	45	က	45
	point84	84	811	45	42	45	7	45	က	45	က	45
	point85	82										
University SB-2	point279	279	629	30	15	30	2	30	20	30	0	0
	point268	268	202	30	9	30	0	0	0	0	3	30
	point267	267	202	30	9	30	0	0	0	0	3	30
	point93	66	202	30	9	30	0	0	0	0	3	30
	point94	94	202	25	9	25	0	0	0	0	3	25
	point95	62	202	25	9	25	0	0	0	0	3	25
	point96	96										
Main EB-2	point280	280	675	25	15	25	0	0	19	25	8	25

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Main EB-2-2 point281 Main EB-2-2 point261 Main WB-2 point263 Main WB-2-2 point263 Point263 point264 point264 point263 point263 point264 point264 point263 point263 point264 point264 point263 point263 point264 point264 point265 point265 point267 point267 point267 point267 point267 point276 point267 point277 point267		6/5	52	15	22	0	5	ე ე	<u>C</u> 2	X	4.
				1		_	,)	0	C7
		0									
		1 675	30	15	30	0	0	19	30	80	30
	262 262	2 849	30	19	30	0	0	24	30	10	30
	261 261	1 849	30	19	30	0	0	24	30	10	30
	226 226	5 849	30	19	30	0	0	24	30	10	30
	100 100	0									
	282 282	2 902	25	0	0	9	22	13	25	0	0
	263 263	3 673	25	0	0	2	22	10	25	0	0
	264 264	4 673	25	0	0	2	22	10	25	0	0
	103 103	3 673	25	0	0	2	25	10	25	0	0
	225 225	5 673	25	0	0	2	22	10	25	0	0
	104 104	404	25	0	0	က	22	9	25	0	0
	259 259	6									
	283 283	3 404	30	0	0	က	30	9	30	0	0
	105 105	10									
	284 284	4 338	20	4	20	0	0	0	0	4	20
	253 253	3 324	20	4	20	0	0	0	0	4	20
	116 116	324	20	4	20	0	0	0	0	4	20
	249 249	9 324	20	4	20	0	0	0	0	4	20
	117 117	2									
	285 285	5 324	20	4	20	0	0	0	0	4	20
	245 245	5 278	20	က	20	0	0	0	0	က	20
	118 118	8									
point244 point126 point127	287 287	7 52	30	4	30	0	0	15	30	0	0
point126 point127	244 244	49	30	4	30	0	0	4	30	0	0
point127	126 126	5 49	30	4	30	0	0	4	30	0	0
	127 127	7 49	30	4	30	0	0	14	30	0	0
point128	128 128	8									
Broad EB-2 point288	288 288	3 294	15	0	0	0	0	4	15	0	0
point243	243 243	3 172	15	0	0	0	0	2	15	0	0
point227	227 227	7 172	10	0	0	0	0	7	10	0	0
point134	134 134	4									
Pitkin-2 point289			25	2	25	0	0	37	25	0	0
point248		3 217	30	4	30	0	0	28	30	0	0
point247		7 217	32	4	32	0	0	28	35	0	0

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	point179	179			
Pitkin-2-2	point290	290	217	32	
	point242	242	369	35	
	point241	241	369	40	
	point180	180	397	35	
	point181	181	159	35	
	point182	182	159	35	
	point183	183	159	35	
	point184	184	226	35	
	point185	185	226	35	
	point186	186	226	35	
	point187	187	226	35	
	point188	188	226	25	
	point189	189			
Pitkin-2-2-2	point291	291	226	35	
	point240	240	301	35	
	point239	239	301	35	
	point190	190	1183	35	
	point191	191	1183	35	
	point192	192			
Monroe-Chestnut NB-2	point292	292	466	30	
	point201	201	466	35	
	point202	202	468	25	
	point302	302			
Monroe-Chestnut NB-2-2-2	point294	294	510	35	
	point237	237	313	35	
	point205	205	313	35	
	point206	206	313	35	
	point207	207			
Chestnut-Monroe SB-2	point295	295	410	25	
	point238	238	528	25	
	point211	211	528	25	
	point212	212			
Chestnut-Monroe SB-2-2	point296	296	528	30	
	point235	235	551	35	
H:\2012\12198 Rochester I-490 Inner Loop\TNM\2008Existingv01	TNM\2008Exis	tingv01			

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INPUT: TRAFFIC FOR LAeq1h Volumes

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INPUT: TRAFFIC FOR LAeq1h Volumes						PIN	PIN 4940.T7					
	point213	213	546	30	2	30	2	30	4	30	0	0
	point214	214										
Chestnut-Monroe SB-2-2-2	point297	297	548	30	4	30	4	30	4	30	7	30
	point215	215	652	35	4	35	4	35	4	35	8	35
	point216	216										
Haags EB/WB	point299	299	36	10	0	0	0	0	0	0	0	0
	point300	300										
East EB	point119	119	414	20	0	0	0	0	2	20	4	20
	point246	246	561	20	0	0	0	0	က	20	9	20
	point120	120	561	20	0	0	0	0	က	20	9	20
	point250	250	561	20	0	0	0	0	က	20	9	20
	point121	121										
East EB-2	point301	301	561	20	0	0	0	0	3	20	9	20
	point286	286	969	20	0	0	0	0	4	20	7	20
	point122	122	969	20	0	0	0	0	4	20	7	20
	point123	123										
Monroe-Chestnut NB-2-2	point303	303	468	25	17	25	8	25	13	22	0	0
	point293	293	510	25	18	25	4	25	15	22	0	0
	point228	228	510	25	18	25	4	25	15	22	0	0
	point204	204										

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Watts					15 November 2013	ber 2013					
JKK					TNM 2.5						
INPUT: RECEIVERS											
PROJECT/CONTRACT:	PIN 4940.T7		_								
RUN:	2008 Existin	2008 Existing Inner Loop Noise	Noise								
Receiver											
Name	No. #DUs Coo	Coordinates	rdinates (ground)		Height	Input Sound Levels and Criteria	nd Levels	and Crit	eria	Ac	Active
		×	Z		above	Existing	Impact Criteria	riteria	X X	.⊆	
					Ground	LAeq1h	LAeq1h	Sub'I	Goal	ပိ	Calc.
		Ħ	ft		#	dBA	dBA	фВ	ф		
Receiver A	1-	1,409,838.0	1,149,594.0	1.00	4.92	56.40	99		10.0	8.0	
Receiver B	12	1,410,833.0	1,149,476.0	0.00	4.92	64.80	99		10.0	8.0	>
Receiver C	13	1,410,370.0	1,149,874.0	1.00	4.92	59.90	99		10.0	8.0	>
Receiver D	41	1,411,136.0	1,150,240.0	1.00	4.92	66.20	99		10.0	8.0	>
Receiver E	15	1,410,966.0	1,150,771.0	0.00	4.92	56.10	99		10.0	8.0	>
Receiver F	16	1,411,497.0	1,151,129.0	1.00	4.92	63.40	99		10.0	8.0	>
Receiver G	17	1,411,904.0	1,152,155.0	0.00	4.92	64.10	99		10.0	8.0	>
Receiver H	18	1,411,615.0	1,152,922.0	0.00	4.92	59.80	99		10.0	8.0	>
Receiver I	19	1,411,816.0	1,411,816.0 1,153,208.0	0.00	4.92	59.40	99		10.0	8.0	>

15 November 2013

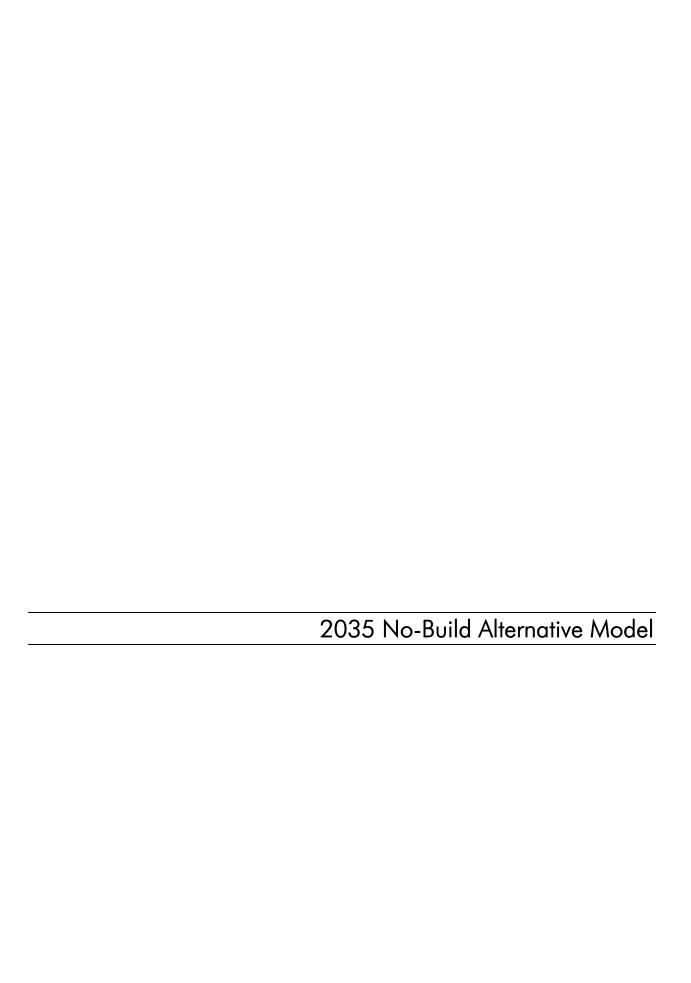
INPUT: BARRIERS

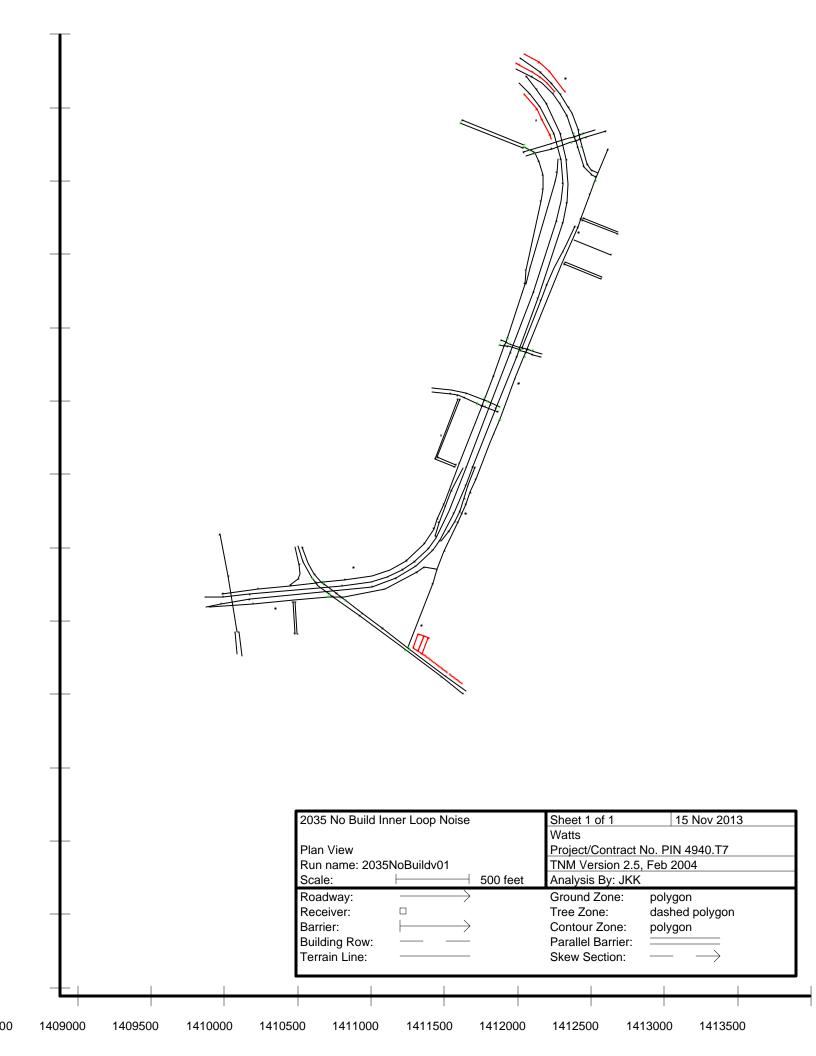
Watts					15 Nov	15 November 2013	73											
JKK					TNM 2		<u>:</u>											
						, —												
INPUT: BARRIERS																		
PROJECT/CONTRACT:	PIN 4940.T7	40.T7																
RUN:	2008 E	xisting	2008 Existing Inner Loop Noise	op Noi	še													
Barrier									Points									
Name	Type	Height		If Wall	If Berm	_		Add'tnl	Name	No. Coordir	Coordinates (bottom)	ottom)	Height		Segment			
		Min	Max	\$ per	\$ per	Тор	Run:Rise	\$ ber		×	>	Z	at		Seg Ht Perturbs	sturbs	ő	Important
				L	Onit	Width		Onit					Point		cre- #U	p #Dn	Struct	Incre- #Up #Dn Struct? Reflec-
			4	Area	Vol.	4	4.4	Length		4	4	- 4	4	Ĕ	ment			tions?
		E .	Ľ	ı bs/≄	\$/cu ya m	=	11	11/≱		Ľ	E	Ľ	=	E				
Barrier2	≥	0.00	66.66	0.00	0			00.00	point1	1 1,411,532.1		1,153,099.0	0.00	0.00	00.0	0	0	
									point2	2 1,411,	1,411,620.0	1,152,996.4	0.00	0.00	0.00	0	0	
									point3	3 1,411,653.1	1	1,152,926.9	00.00	0.00	0.00	0	0	
									point4	4 1,411,707.6	1	1,152,821.8	0.00	0.00	0.00	0	0	
									point5	5 1,411,718.1		1,152,793.8	0.00	0.00				
Barrier3	>	0.00	99.99	0.00	0			0.00	point6	6 1,411,740.9		1,153,118.5	0.00	4.00	0.00	0	0	
									point36	36 1,411,688.8		1,153,173.9	0.00	4.00	0.00	0	0	
									point7	7 1,411,639.0		1,153,217.2	0.00	4.00	0.00	0	0	
									point8	8 1,411,588.0		1,153,252.5	0.00	4.00	0.00	0	0	
									point9	9 1,411,498.6		1,153,300.6	0.00	4.00	0.00	0	0	
									point10	10 1,411,476.1		1,153,311.1	0.00	4.00				
Barrier4	>	0.00	66.66	0.00	0			0.00	point11	11 1,411,812.5		1,153,117.4	0.00	0.00	0.00	0	0	
									point12	12 1,411,705.1		1,153,257.0	0.00	0.00	0.00	0	0	
									point13	13 1,411,633.0		1,153,317.1	0.00	00.0	0.00	0	0	
									point14	14 1,411,536.1		1,153,375.6	0.00	00.00				
Apartment Bldg	>	0.00	66.66	0.00	0			00.00	point15	15 1,410,	1,410,849.0 1	1,149,404.0	00.00	20.00	0.00	0	0	
									point16	16 1,410,812.0		1,149,419.0	00.00	20.00	0.00	0	0	
									point17	17 1,410,776.0		1,149,325.0	00.00	20.00	0.00	0	0	
									point18	18 1,410,809.0		1,149,302.0	00.00	20.00	0.00	0	0	
									point19	19 1,410,	1,410,849.0 1	1,149,402.5	00.00	20.00				
Low Building	>	0.00	66.66	0.00	0			00.00	point20	20 1,410,882.9		1,149,390.1	0.00	12.00	0.00	0	0	
									point21	21 1,410,849.9		1,149,403.1	00.00	12.00 (0.00	0	0	
									point22	22 1,410,	1,410,809.8	1,149,302.0	00.00	12.00 (0.00	0	0	
									point23			1,149,285.0			0.00	0	0	
									point24	24 1,410,881.4		1,149,389.1	0.00	12.00				

Watts					15 November 2013	
JKK					TNM 2.5	
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:	PIN 4940.T7					
RUN:	2008 Existir	2008 Existing Inner Loop Noise	Noise			
Building Row			Points			
Name	Average	Building	Š.	Coordinates (ground)	ground)	
	Height	Percent		×	χ	
	ft	%		ft	ft	
Monroe Bldgs	30.00	09	3	3 1,410,839.4	1,149,284.6	0.00
			4	1,411,110.6	1,149,080.5	0.00

PIN 4940.T7

INPUT: BUILDING ROWS





RESULTS: SOUND LEVELS							PIN 4	PIN 4940.T7						
Watts							15 N	ovemb	15 November 2013					
JKK							TNM 2.5	2.5						
							Calc	ulated	Calculated with TNM 2.5	2.5				
RESULTS: SOUND LEVELS														
PROJECT/CONTRACT:		PIN 4940.T7	40.T7											
RUN:		2035 N	2035 No Build Inr	ner Loop Noise	ise									
BARRIER DESIGN:		INPUT	INPUT HEIGHTS						verage pa	vement type	Average pavement type shall be used unless	unless		-
			 					10	State hig	hway agency	a State highway agency substantiates the use	the use		_
ATMOSPHERICS:		ор 89 С	68 deg F, 50% R	I					f a differe	nt type with	of a different type with approval of FHWA.	Μ A		
Receiver														
Name	Š.	#DNs	Existing	No Barrier						With Barrier				
			LAeq1h	LAeq1h		Increase over existing	er exist		Type	Calculated	Noise Reduction	ou		
				Calculated	Crit'n	Calculated	Crit'n		×	LAeq1h	Calculated	Goal	Calculated	ated
							Sub'l Inc	ည					minus	
													Goal	
			dBA	dBA	dBA	dВ	용			dBA	dB	ф	ф	
Receiver A	11		65.3		66.2	0 99	6.0	10	Snd LvI	66.2	0.0		8	-8.0
Receiver B	12		65.7		66.2	0 99	0.5	10	Snd Lvl	66.2	0.0		8	-8.0
Receiver C	13		6.09		62.0	66	1.1	10	1	62.0	0.0		8	-8.0
Receiver D	14		65.2		65.8	0 99	9.0	10	1	65.8	0.0		8	-8.0
Receiver E	15		56.2		57.7	66	1.5	10	1	57.7	0.0		8	-8.0
Receiver F	16		64.4		9.59	66	1.2	10	1	9.59	0.0		8	-8.0
Receiver G	17		64.1	1 64.7	7	0 99	9.0	10	1	64.7	0.0		8	-8.0
Receiver H	18		62.8		63.5	0 99	0.7	10	1	63.5	0.0		8	-8.0
Receiver I	19		67.9		63.5	0 99	9.0	10	1	63.5	0.0		8	-8.0
Dwelling Units		# DNs	Noise Re	eduction										
			Min	Avg	Мах									
			dВ	dВ	ф									
All Selected		6	0.0		0.0	0.0								
All Impacted		2		0.0	0.0	0.0								
All that meet NR Goal		0	0.0		0.0	0.0								

INFOI. ROADWAIS						1.0464 VII.	240.17			
Watts					15 November 2013	2013				
JKK					TNM 2.5					
INPUT: ROADWAYS						Average	Average pavement type shall be used unless	e shall be u	selun pesr	— <i>1</i> 0
PROJECT/CONTRACT:	PIN 4940.T7					a State hi	a State highway agency substantiates the use	sy substanti	iates the us	9
RUN:	2035 No Build In	uild Inner	ner Loop Noise	oise		of a diffe	of a different type with the approval of FHWA	the approv	al of FHW	4
Roadway		Points								
Name	Width	Name	No.	Coordinates (pavement)	' _	Flow Control	rtrol	tagoret t	Segment	Š
							Constraint	Vehicles	Type	Struct?
	#			±	#	4	Ç	Affected %		
liner Loon ER	24.0	Point1			1 149 604 B	,	<u>.</u>	2	Δνοτοσο	
	1	point2	2		1.149,625.9	0.00			Average	
		point3	က		1,149,656.2	0.00			Average	
		point4	4	1,410,294.2	1,149,719.9	-20.00			Average	
		point5	5	1,410,498.0	1,149,742.2	-10.00			Average	
		point6	9	1,410,661.0	1,149,797.6	-5.00			Average	
		point7	7	1,410,795.1	1,149,884.0	-3.00			Average	
		point8	8	1,410,909.6	1,149,994.0	0.00			Average	
		point9	6	1,410,958.1	1,150,058.4	00.00			Average	
		point10	10	1,411,056.6	1,150,247.4	0.00			Average	
		point11	11	1,411,135.4	1,150,438.2	0.00			Average	
		point12	12	1,411,182.4	1,150,562.9	-3.00			Average	
		point13	13	1,411,341.5	1,150,960.4	-20.00			Average	
		point14	14		1,151,314.4	-20.00			Average	
		point273	273		1,151,379.4	-18.00			Average	
		point15	15	1,411,628.8	1,151,712.6	-3.00			Average	
		point16	16	1,411,797.8	1,152,227.5	-5.00			Average	
		point17	17	1,411,824.2	1,152,364.0	-10.00			Average	
		point18	18	1,411,834.1	1,152,485.2	-15.00			Average	
		point19	19	1,411,822.8	1,152,655.0	-20.00			Average	
		point20	20		1,152,835.1	-20.00			Average	
		point21	21	1,411,684.9	1,153,037.0	-20.00			Average	
		point22	22	1,411,618.1	1,153,138.5	-20.00			Average	
		point23	23			-20.00				
Inner Loop WB	24.0	point24	24	1,411,498.4	1,153,176.4	-5.00			Average	

		point25	. 52	1,411,574.1	1,153,098.4	-10.00	_			Average
		point26	. 56	1,411,639.4	1,153,015.8	-10.00				Average
		point27	27	1,411,737.1	1,152,827.8	-20.00				Average
		point28	782	1,411,784.1	1,152,652.4	-20.00				Average
		point29	. 58	1,411,796.2	1,152,488.2	-15.00				Average
		point30	30	1,411,785.6	1,152,369.2	-10.00				Average
		point31	31	1,411,752.2	1,152,228.6	-5.00				Average
		point32	32	1,411,597.6	1,151,746.4	-3.00				Average
		point33		1,411,440.8	1,151,334.6	-20.00				Average
		point34	34	1,411,301.4	1,150,977.6	-20.00				Average
		point35	32	1,411,136.1	1,150,553.6	-3.00				Average
		point36	36	1,411,020.2	1,150,256.1	0.00				Average
		point37	37	1,410,932.4	1,150,075.2	0.00				Average
		point38	38	1,410,877.8	1,150,001.0	0.00				Average
		point39	39	1,410,782.4	1,149,909.2	-3.00				Average
		point40	40	1,410,701.2	1,149,856.2	-4.00				Average
		point41	41	1,410,602.0	1,149,804.6	-6.00				Average
		point42	45	1,410,489.0	1,149,772.8	-10.00				Average
		point43	43	1,410,289.0	1,149,749.0	-20.00				Average
		point233	233	1,409,659.6	1,149,689.2	00.0				Average
		point44	44	1,409,478.1	1,149,672.0	0.00				Average
		point45	45	1,409,359.8	1,149,672.0	0.00				
Howell	24.0		46	1,409,387.1	1,149,606.0	0.00				Average
		point47	47	1,409,688.0	1,149,625.0	0.00				Average
		point48	48	1,409,963.1	1,149,651.5	0.00				Average
		point49	49	1,410,198.0	1,149,672.8	00.00				
Union	24.0	point55	22	1,410,744.4	1,149,327.0	0.00	Signal	0.00	09	Average
		point56	. 99	1,410,909.6	1,149,765.4	0.00				Average
		point57		1,410,941.5	1,149,859.4	0.00				Average
		point58	28	1,410,990.6	1,149,987.5	0.00				Average
		point59	26	1,411,083.9	1,150,183.9	0.00				Average
		point298	. 598	1,411,109.2	1,150,244.5	0.00				Average
		point60	09	1,411,134.6	1,150,305.1	0.00				Average
		point61	. 19	1,411,168.1	1,150,386.0	00'0				Average
		point62	. 62	1,411,204.6	1,150,479.2	00'0				Average
		point63	. 63	1,411,296.2	1,150,709.8	0.00				Average
		point64		1,411,330.4	1,150,787.1	0.00				Average
		point65	. 69	1,411,369.9	1,150,883.4	00.00				
University NB	24.0	point75	. 22	1,412,034.9	1,152,560.5	0.00	Signal	0.00	40	Average

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						210.17		
	point76	t76 76	5 1,411,993.0	1,152,583.1	0.00			Average
	point77	t77 77	7 1,411,963.8		0.00			Average
	point78	t78 78	3 1,411,925.9	1,152,747.1	0.00			
University SB	24.0 point86	ıt86 86	3 1,411,477.6	1,153,270.6	-7.00			Average Y
	point87	t87 87	7 1,411,589.1	1,153,219.1	-5.00			Average
	point88	t88 88	3 1,411,658.9	1,153,175.1	-3.00			Average
	point89	t89 89	9 1,411,733.9	1,153,103.9	0.00			Average
	point90	ıt90 90	0 1,411,781.6	1,153,036.4	0.00			Average
	point91	t91 91	1,411,824.9	1,152,951.5	0.00			Average
	point92	rt92 92	1,411,870.4	1,152,827.1	0.00			
Main EB	36.0 point97	t97 97	7 1,411,544.4	1,152,678.9	0.00			Average
	poir	point260 260	1,411,605.2	1,152,696.0	0.00			
Main WB	36.0 poir	point101 101	1,412,018.1	1,152,857.0	0.00			Average
	point10	t102 102	2 1,411,928.9	1,152,828.2	0.00			
Richmond WB	12.0 point10	t106 106	3 1,412,175.0	1,152,156.9	0.00			Average
	poir	point107 107	7 1,411,936.2	1,152,252.4	0.00			
Richmond EB	12.0 point10	t108 108	3 1,411,929.5	1,152,241.8	0.00 Onramp	10.00	100	Average
	point10	109 109	9 1,412,172.8	1,152,144.8	0.00			
Charlotte WB	12.0 point11	t110 110	1,412,062.1	1,151,851.6	0.00			Average
	point11	t111 111	1,411,811.1	1,151,954.8	0.00			
Charlotte EB	12.0 point1	t112 112	1,411,805.1	1,151,941.9	0.00 Onramp	10.00	100	Average
	point1	t113 113			0.00			
East WB	24.0 point11	t114 114	1,411,654.1	1,151,328.5	0.00			Average
	point11	t115 115	5 1,411,586.6	1,151,352.0	0.00			
Broad WB	36.0 poir	point124 124	1,411,367.4	1,150,965.6	0.00 Signal	0.00	80	Average Y
	poir	point125 125	5 1,411,283.2	1,151,005.9	0.00			
Broad EB	36.0 poir	point129 129	1,410,906.5	1,151,068.0	0.00			Average
	poir	point130 130	0 1,411,032.2	1,151,057.4	0.00			Average
	poir	point131 131	1,411,080.9	1,151,046.8	0.00			Average
	point13	t132 132	1,411,129.4	1,151,028.6	0.00			Average
	point13	t133 133	3 1,411,218.0	1,150,988.4	0.00			
Savannah NB	12.0 point13	t135 135	5 1,411,070.2	1,150,573.0	0.00 Onramp	10.00	100	Average
	poir	point136 136	3 1,410,942.9	1,150,623.8	0.00			Average
	poir	point137 137	7 1,411,096.8	1,151,021.0	0.00			
Savannah SB	12.0 point138	ω		1,151,021.0	0.00 Onramp	10.00	100	Average
	point13	t139 139	9 1,410,928.5	1,150,613.1	0.00			Average
	poir	point140 140	1,411,064.1	1,150,560.9	0.00			
Broadway NB	12.0 point147	_			0.00 Onramp	10.00	100	Average
	point14	t142 142	2 1,409,974.8	1,149,639.1	0.00			

INPUT: ROADWAYS						(ᅈ		•	
Broadway SB	12.0	point143	143	1,409,958.0	1,149,637.6	0.00 Onramp	10.00	100	Average	
		point144	144	1,409,970.9	1,149,420.1	0.00				
Clinton Ramp	24.0	point145	145	1,409,608.5	1,149,271.5	20.00			Average	
		point146	146	1,409,586.6	1,149,435.2	20.00				
Clinton NB 1	24.0	point147	147	1,409,575.2	1,149,285.9	20.00			Average	
		point148	148	1,409,562.4	1,149,433.0	20.00				
Clinton NB 2	48.0	point149	149	1,409,575.2	1,149,436.0	20.00			Average	
		point150	150	1,409,518.0	1,149,815.6	20.00			Average	
		point151	151	1,409,457.0	1,150,098.6	20.00				
Chestnut Ramp	24.0	point152	152	1,409,975.0	1,150,015.6	0.00			Average	
		point153	153	1,410,001.6	1,149,888.2	0.00			Average	
		point154	154	1,410,006.1	1,149,831.4	0.00			Average	
		point155	155	1,409,992.5	1,149,792.0	0.00			Average	
		point156	156	1,409,938.6	1,149,750.2	0.00				
IL/Union Ramp	12.0	point157	157	1,410,965.6	1,150,054.4	0.00			Average	
		point158	158	1,411,022.5	1,150,120.2	0.00			Average	
		point159	159	1,411,065.6	1,150,186.2	0.00			Average	
		point160	160	1,411,096.8	1,150,259.0	0.00			Average	
		point161	161	1,411,127.1	1,150,347.0	0.00			Average	
		point162	162	1,411,152.1	1,150,433.4	0.00			Average	
		point163	163	1,411,197.6	1,150,554.6	0.00				
IL/Pitkin Ramp	12.0	point164	164	1,411,117.2	1,150,552.4	0.00			Average	
		point165	165	1,411,036.1	1,150,394.0	0.00			Average	
		point166	166	1,410,993.6	1,150,287.9	0.00			Average	
		point167	167	1,410,950.5	1,150,177.9	0.00			Average	
		point168	168	1,410,928.5	1,150,084.6	0.00				
Pitkin	24.0	point169	169	1,411,535.2	1,152,739.9	0.00 Signal	0.00	20	Average	
		point257	257	1,411,575.9	1,152,717.5	0.00			Average	
		point170	170	1,411,601.2	1,152,703.5	0.00			Average	
		point258	258	1,411,605.2	1,152,696.0	0.00			Average	
		point171	171	1,411,634.5	1,152,639.8	0.00			Average	
		point172	172	1,411,659.6	1,152,545.8	0.00			Average	
		point173	173	1,411,661.9	1,152,451.0	0.00			Average	
		point174	174	1,411,645.9	1,152,368.4	0.00			Average	
		point175	175	1,411,544.4	1,151,898.0	0.00			Average	
		point176	176	1,411,537.5	1,151,806.1	0.00			Average	
		point177	177	1,411,418.4	1,151,433.5	0.00				
IL Ramp to Pitkin	12.0	point193	193	1,411,762.9	1,152,658.4	-20.00			Average	
		point194	194	1,411,756.0	1,152,562.1	-15.00			Average	

H:\2012\12198 Rochester I-490 Inner Loop\TNM\2035NoBuildv01

INPUT: ROADWAYS				PIN 4	PIN 4940.T7		
	point195	195 1,411,744.6	1,152,504.5	-13.00			Average
	point196	196 1,411,573.1	1,151,916.9	0.00			Average
	point197	197 1,411,545.9	1,151,805.5	0.00			
Monroe-Chestnut NB 12.0	point198	198 1,411,136.8	1,149,032.6	0.00			Average
	point199	199 1,410,995.0	1,149,135.8	0.00			Average
	point200	200 1,410,752.4	1,149,316.1	0.00			
Chestnut-Monroe SB 24.0	point208	208 1,409,994.6	1,150,018.2	0.00			Average
	point209	209 1,410,028.0	1,149,911.4	0.00			Average
	point210	210 1,410,088.6	1,149,797.6	0.00			
E University Ave EB 24.0		229 1,411,100.0	1,152,904.0	0.00 Signal	0.00	50	Average
	point230	230 1,411,527.0	1,152,734.0	0.00			
E University Ave WB 24.0	point231	231 1,411,535.0	1,152,755.0	0.00 Signal	0.00	20	Average
	point232	232 1,411,109.0	1,152,924.0	0.00			
IL Ramp to Union-2-2	point272	272 1,411,523.0	1,151,369.1	-20.00			Average
	point218	218 1,411,575.2	1,151,507.8	-10.00			Average
	point219	219 1,411,647.2	1,151,698.8	-3.00			Average
	point220	220 1,411,689.9	1,151,802.8	0.00			Average
	point221	221 1,411,739.9	1,151,916.5	0.00			Average
	point222	1,411,800.6	1,152,030.2	0.00			Average
	point223	223 1,411,829.4	1,152,087.0	0.00			Average
	point224	224 1,411,879.4	1,152,199.2	0.00			
Howell-2 24.0	point274	274 1,410,198.0	1,149,672.8	0.00 Signal	0.00	09	Average
	point236	236 1,410,232.5	1,149,672.2	0.00			Average
	point234	234 1,410,283.4	1,149,672.2	0.00			Average
	point50	50 1,410,307.2	1,149,672.0	0.00			Average
	point51	51 1,410,585.4	1,149,727.4	0.00			Average
	point52	52 1,410,805.0	1,149,840.1	0.00			Average
	point53	53 1,410,854.2	1,149,873.5	0.00			Average
	point54	54 1,410,930.1		0.00			
Union-2 24.0	point275			0.00 Signal	0.00	40	Average
	point66	66 1,411,473.6	1,151,161.6	0.00			Average
	point67	67 1,411,536.6	1,151,315.6	0.00			
Union-2-2 24.0		276 1,411,536.6	1,151,315.6	0.00 Signal	0.00	50	Average
	point256	256 1,411,546.0	1,151,339.1	0.00			Average
	point255	255 1,411,553.8	1,151,360.5	0.00			Average
	point68	68 1,411,630.6	1,151,549.9	0.00			Average
	point69	69 1,411,794.5	1,151,951.8	0.00			Average
	point70	70 1,411,899.1	1,152,194.8	0.00			Average
	point71	71 1,411,921.1	1,152,255.4	0.00			Average

INPUT: ROADWAYS							PIN 4940.T7	40.T7		
		point72	72	1,411,982.5	1,152,422.1	0.00				Average
		point73	73	1,412,020.4	1,152,514.5	0.00				
Union-2-2-2	24.0	point277	277	1,412,020.4	1,152,514.5	0.00 Signal		0.00	09	Average
		point74	74	1,412,104.5	1,152,725.1	0.00				
University NB-2	24.0	point278	278	1,411,925.9	1,152,747.1	0.00 Signal		0.00	20	Average
		point265	265	1,411,916.5	1,152,791.4	00.00				Average
		point266	266	1,411,910.0	1,152,822.2	0.00				Average
		point79	79	1,411,902.1	1,152,859.8	0.00				Average
		point80	8	1,411,858.1	1,152,971.9	0.00				Average
		point81	8	1,411,836.2	1,153,015.9	0.00				Average
		point82	82	1,411,779.4	1,153,103.9	00.00				Average
		point83	83	1,411,718.8	1,153,176.6	-3.00				Average
		point84	84	1,411,642.9	1,153,250.1	-10.00				Average
		point85	82	1,411,508.0	1,153,343.4	-20.00				
University SB-2	24.0	point279	279	1,411,870.4	1,152,827.1	0.00 Signal		0.00	20	Average
		point268	268	1,411,875.6	1,152,811.1	0.00				Average
		point267	267	1,411,885.1	1,152,781.4	0.00				Average
		point93	93	1,411,900.6	1,152,733.5	0.00				Average
		point94	94	1,411,941.2	1,152,604.8	0.00				Average
		point95	92	1,411,994.1	1,152,547.6	0.00				Average
		point96	96	1,412,025.8	1,152,535.4	0.00				
Main EB-2	36.0	point280	280	1,411,605.2	1,152,696.0	0.00 Signal		00.00	20	Average
		point98	86	1,411,722.0	1,152,729.1	0.00				Average Y
		point99	66	1,411,855.6	1,152,772.1	0.00				
Main EB-2-2	36.0	point281	281	1,411,855.6	1,152,772.1	0.00 Signal		0.00	20	Average
		point262	262	1,411,885.1	1,152,781.4	0.00				Average
		point261	261	1,411,916.5	1,152,791.4	0.00				Average
		point226	226	1,411,958.5	1,152,804.8	00.00				Average
		point100	100	1,412,090.1	1,152,847.1	00.00				
Main WB-2	36.0	point282	282	1,411,928.9	1,152,828.2	0.00 Signal		00.00	20	Average
		point263	263	1,411,910.0	1,152,822.2	0.00				Average
		point264	264	1,411,875.6	1,152,811.1	0.00				Average
		point103	103	1,411,841.0	1,152,800.2	0.00				Average Y
		point225	225	1,411,710.5	1,152,759.0	0.00				Average
		point104	104	1,411,575.9	1,152,717.5	0.00				Average
		point259	259	1,411,570.9	1,152,716.0	0.00				
Main WB-2-2	36.0	point283	283	1,411,570.9	1,152,716.0	0.00 Signal		0.00	20	Average
			105	1,411,525.4	1,152,703.1					
East WB-2	24.0	point284	284	1,411,586.6	1,151,352.0	0.00 Signal		0.00	20	Average
		: :						(

INPUT: ROADWAYS											
		point253	253	1,411,553.8	1,151,360.5	0.00				Average	
		point116	116	1,411,522.5	1,151,368.5	0.00				Average	
		point249	249	1,411,513.1	1,151,371.6	0.00				Average	>
		point117	117	1,411,433.5	1,151,398.2	0.00					
East WB-2-2	24.0	point285	285	1,411,433.5	1,151,398.2	0.00 Sig	Signal	0.00	20	Average	
		point245	245	1,411,408.6	1,151,408.2	0.00				Average	
		point118	118	1,411,374.4	1,151,421.8	00.0					
Broad WB-2	36.0	point287	287	1,411,283.2	1,151,005.9	0.00 Sig	Signal	0.00	20	Average	
		point244	244	1,411,260.6	1,151,014.6	0.00				Average	
		point126	126	1,411,135.4	1,151,061.9	0.00				Average	
		point127	127	1,411,037.6	1,151,083.1	0.00				Average	
		point128	128	1,410,908.0	1,151,096.0	0.00					
Broad EB-2	36.0	point288	288	1,411,218.0	1,150,988.4	0.00 Sig	Signal	0.00	20	Average	
		point243	243	1,411,246.6	1,150,976.9	0.00				Average	
		point227	227	1,411,270.2	1,150,967.5	0.00				Average	>
		point134	134	1,411,356.8	1,150,933.8	00.0					
Pitkin-2	24.0	point289	289	1,411,418.4	1,151,433.5	0.00 Sig	Signal	0.00	20	Average	
		point248	248	1,411,408.6	1,151,408.2	0.00				Average	
		point247	247	1,411,399.9	1,151,383.8	0.00				Average	
		point178	178	1,411,322.9	1,151,172.0	0.00				Average	
		point179	179	1,411,266.0	1,151,027.9	00.0					
Pitkin-2-2	24.0		290	1,411,266.0	1,151,027.9	0.00 Sig	Signal	0.00	20	Average	
		point242	242	1,411,260.6	1,151,014.6	0.00				Average	
		point241	241	1,411,246.6	1,150,976.9	0.00				Average	
		point180	180	1,411,089.4	1,150,580.9	0.00				Average	
		point181	181	1,410,984.4	1,150,303.0	0.00				Average	
		point182	182	1,410,940.4	1,150,199.9	0.00				Average	
		point183	183	1,410,916.9	1,150,137.8	0.00				Average	
		point184	184	1,410,854.0	1,150,033.9	0.00				Average	
		point185	185	1,410,729.1	1,149,917.4	0.00				Average	
		point186	186	1,410,616.2	1,149,853.0	0.00				Average	
		point187	187	1,410,494.1	1,149,812.9	0.00				Average	
		point188	188	1,410,306.1	1,149,788.5	00.0				Average	
		point189	189	1,410,161.4	1,149,774.9	0.00					
Pitkin-2-2-2	24.0	point291	291	1,410,161.4	1,149,774.9	0.00 Sig	Signal	0.00	20	Average	
		point240	240	1,410,151.0	1,149,773.9	0.00				Average	
		point239	239	1,410,113.0	1,149,769.2	0.00				Average	
		point190	190	1,409,937.8	1,149,748.4	0.00				Average	
		point191	191	1,409,717.5	1,149,727.1	0.00				Average	

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		point192	192	1,409,476.6	1,149,693.9	0.00				
Monroe-Chestnut NB-2	12.0	point292	292	1,410,752.4	1,149,316.1	0.00 Signal	0.00	20	Average	
		point201	201	1,410,564.6	1,149,457.2	0.00			Average	
		point202	202	1,410,425.9	1,149,562.6	0.00			Average	
		point302	302	1,410,312.8	1,149,649.9	0.00				
Monroe-Chestnut NB-2-2-2	24.0	point294	294	1,410,167.5	1,149,761.1	0.00 Signal	0.00	20	Average	
		point237	237	1,410,151.0	1,149,773.9	00.00			Average	
		point205	205	1,410,104.5	1,149,827.1	0.00			Average	
		point206	206	1,410,057.5	1,149,905.2	0.00			Average	
		point207	207	1,410,022.6	1,150,011.4	0.00				
Chestnut-Monroe SB-2	24.0	point295	295	1,410,088.6	1,149,797.6	0.00 Signal	0.00	20	Average	
		point238	238	1,410,113.0	1,149,769.2	00.00			Average	
		point211	211	1,410,123.2	1,149,755.8	00.00			Average	>-
		point212	212	1,410,206.2	1,149,691.5	0.00				
Chestnut-Monroe SB-2-2	12.0	point296	296	1,410,206.2	1,149,691.5	0.00 Signal	0.00	20	Average	
		point235	235	1,410,232.5	1,149,672.2	00.0			Average	
		point213	213	1,410,414.9	1,149,541.8	0.00			Average	
		point214	214	1,410,725.8	1,149,308.2	00.00				
Chestnut-Monroe SB-2-2-2	12.0	point297	297	1,410,725.8	1,149,308.2	0.00 Signal	0.00	20	Average	
		point215	215	1,410,974.0	1,149,122.5	0.00			Average	
		point216	216	1,411,119.5	1,149,011.8	0.00				
Haags EB/WB	12.0	point299	299	1,411,872.0	1,152,106.0	0.00			Average	
		point300	300	1,412,129.0	1,152,004.0	0.00				
East EB	24.0	point119	119	1,411,366.0	1,151,388.4	0.00 Signal	0.00	20	Average	
		point246	246	1,411,399.9	1,151,383.8	0.00			Average	
		point120	120	1,411,425.1	1,151,380.8	0.00			Average	>
		point250	250	1,411,509.6	1,151,352.2	00.0			Average	
		point121	121	1,411,515.8	1,151,350.2	0.00				
East EB-2	24.0	point301	301	1,411,515.8	1,151,350.2	0.00 Signal	0.00	20	Average	
		point286	286	1,411,546.0	1,151,339.1	0.00			Average	
		point122	122	1,411,591.9	1,151,322.4	0.00			Average	
		point123	123	1,411,650.2	1,151,306.5	00.0				
Monroe-Chestnut NB-2-2	24.0	point303	303	1,410,312.8	1,149,649.9	0.00 Signal	0.00	20	Average	
		point293	293	1,410,283.4	1,149,672.2	0.00			Average	
		point228	228	1,410,251.6	1,149,696.4	0.00			Average	>
		point204	204	1,410,167.5	1,149,761.1	0.00				

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INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	PIN 4940.T7											
RUN:	2035 No Build	No Build Inner Loop Noise	oop Noi	se								
Roadway	Points											
Name	Name	No.	Segment	t.								
			Autos	1	MTrucks		HTrucks	S	Buses		Motorcycles	/cles
			>	S	>	တ	>	တ	>	တ	>	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Inner Loop EB	point1	1	256	20	0	0		0	0	1 50	3	20
	point2	2	256	20	0	0		0	0	1 50	3	9
	point3	က	256	20	0	0		0	0	1 50	3	3
	point4	4	256	20	0	0		0	0	1 50	3	20
	point5	2	256	20	0	0		0	0	1 50	3	20
	point6	9	256	20	0	0		0	0	1 50	3	9
	point7	7	256	20	0	0		0	0	1 50	3	9
	point8	8	256	20	0	0		0	0	1 50	3	9
	point9	6	225	20	0	0		0	0	1 50	3	9
	point10	10	225	20	0	0		0	0	1 50	3	9
	point11	7	225	20	0	0		0	0	1 50	3	9
	point12	12	478	20	0	0		0	0	3 50	2	9
	point13	13	478	20	0	0		0	0	3 50	2	9
	point14	14	478	90	0	0		0	0	3 20	9	9
	point273	273	249	20	0	0		0	0	1 50	3	9
	point15	15	249	20	0	0		0	0	1 50	3	9
	point16	16	249	20	0	0		0	0	1 50	3	9
	point17	17	249	20	0	0		0	0	1 50	3	9
	point18	18	249	20	0	0		0	0	1 50	3	9
	point19	19	249	20	0	0		0	0	1 50	3	9
	point20	20	249	20	0	0		0	0	1 50	3	9
	point21	21	249	20	0	0		0	0	1 50	3	9
	point22	22	249	20	0	0		0	0	1 50	3	50

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INPUT: TRAFFIC FOR LAeq1h Volumes						PI	PIN 4940.T7					
	point23	23										
Inner Loop WB	point24	24	413	20	1	20	0	0	0	0	0	0
	point25	25	413	20	11	20	0	0	0	0	0	0
	point26	26	413	20	1	20	0	0	0	0	0	0
	point27	27	413	20	1	20	0	0	0	0	0	0
	point28	28	247	20	9	20	0	0	0	0	0	0
	point29	29	247	20	9	20	0	0	0	0	0	0
	point30	30	247	20	9	20	0	0	0	0	0	0
	point31	31	247	20	9	20	0	0	0	0	0	0
	point32	32	247	20	9	20	0	0	0	0	0	0
	point33	33	247	20	9	20	0	0	0	0	0	0
	point34	34	247	20	9	20	0	0	0	0	0	0
	point35	35	197	20	2	20	0	0	0	0	0	0
	point36	36	197	20	2	20	0	0	0	0	0	0
	point37	37	525	20	13	20	0	0	0	0	0	0
	point38	38	525	20	13	20	0	0	0	0	0	0
	point39	39	525	20	13	20	0	0	0	0	0	0
	point40	40	525	20	13	20	0	0	0	0	0	0
	point41	41	525	20	13	20	0	0	0	0	0	0
	point42	42	525	20	13	20	0	0	0	0	0	0
	point43	43	525	20	13	20	0	0	0	0	0	0
	point233	233	525	20	13	20	0	0	0	0	0	0
	point44	44	2095	20	54	20	0	0	0	0	0	0
	point45	45										
Howell	point46	46	175	35	4	35	0	0	7	32	0	0
	point47	47	175	32	4	32	0	0	7	32	0	0
	point48	48	176	30	4	30	0	0	7	30	0	0
	point49	49										
Union	point55	22	394	25	3	25	6	25	0	0	9	25
	point56	99	394	30	3	30	6	30	0	0	9	30
	point57	29	482	30	10	30	0	0	0	0	0	0
	point58	28	482	35	10	35	0	0	0	0	0	0
	point59	29	482	35	10	35	0	0	0	0	0	0
	point298	298	250	35	2	35	0	0	0	0	0	0
	point60	09	250	32	2	32	0	0	0	0	0	0
	point61	61	250	35	2	35	0	0	0	0	0	0
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INPUT: TRAFFIC FOR LAeq1h Volumes						P N	PIN 4940.T7					
	point62	62	250	35	2	35	0	0	0	0	0	0
	point63	89	250	30	2	30	0	0	0	0	0	0
	point64	64	250	25	2	52	0	0	0	0	0	0
	point65	65										
University NB	point75	75	719	30	6	30	0	0	0	0	2	30
	point76	92	719	30	6	30	0	0	0	0	2	30
	point77	77	719	25	6	25	0	0	0	0	2	25
	point78	78										
University SB	point86	98	292	45	17	45	9	45	22	45	0	0
	point87	87	292	40	17	40	9	40	22	40	0	0
	point88	88	292	35	17	32	9	32	22	35	0	0
	point89	89	292	25	17	52	9	22	22	25	0	0
	point90	06	292	15	17	12	9	15	22	15	0	0
	point91	91	768	10	17	10	9	10	22	10	0	0
	point92	92										
Main EB	point97	26	515	25	12	52	0	0	14	25	9	25
	point260	260										
Main WB	point101	101	1056	22	0	0	8	25	15	25	0	0
	point102	102										
Richmond WB	point106	106	8	15	0	0	7	15	0	0	0	0
	point107	107										
Richmond EB	point108	108	10	15	0	0	0	0	0	0	0	0
	point109	109										
Charlotte WB	point110	110	65	10	0	0	0	0	0	0	0	0
	point111	111										
Charlotte EB	point112	112	7	15	က	15	0	0	0	0	0	0
	point113	113										
East WB	point114	114	446	20	2	20	0	0	0	0	2	20
	point115	115										
Broad WB	point124	124	61	15	4	12	0	0	17	15	0	0
	point125	125										
Broad EB	point129	129	417	30	0	0	0	0	9	30	0	0
	point130	130	417	30	0	0	0	0	9	30	0	0
	point131	131	417	22	0	0	0	0	9	22	0	0
	point132	132	417	20	0	0	0	0	9	20	0	0
	point133	133										

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INPUT: TRAFFIC FOR LAeq1h Volumes						PIN	PIN 4940.T7	7	
Savannah NB	point135	135	12	22	0	0	0	0	
	point136	136	10	22	0	0	0	0	
	point137	137							
Savannah SB	point138	138	10	25	0	0	0	0	
	point139	139	7	25	0	0	0	0	
	point140	140							
Broadway NB	point141	141	10	15	0	0	0	0	
	point142	142							
Broadway SB	point143	143	10	15	0	0	0	0	
	point144	144							
Clinton Ramp	point145	145	618	45	8	45	4	45	
	point146	146							
Clinton NB 1	point147	147	1176	45	16	45	7	45	
	point148	148							
Clinton NB 2	point149	149	1794	45	25	45	11	45	,,,
	point150	150	1794	35	25	35	11	35	,
	point151	151							
Chestnut Ramp	point152	152	1214	30	11	30	0	0	,,
	point153	153	1214	30	1	30	0	0	
	point154	154	1214	25	11	25	0	0	
	point155	155	1214	30	11	30	0	0	
	point156	156							
IL/Union Ramp	point157	157	30	35	_	35	0	0	
	point158	158	30	35	_	35	0	0	
	point159	159	30	35	_	35	0	0	
	point160	160	252	35	2	35	0	0	
	point161	161	252	35	2	35	0	0	
	point162	162	252	35	2	35	0	0	
	point163	163							
IL/Pitkin Ramp	point164	164	51	35	0	0	0	0	
	point165	165	51	35	0	0	0	0	
	point166	166	320	35	0	0	0	0	
	point167	167	320	35	0	0	0	0	

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point168 point169 point257

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	0	0	0	0	0	0	0	43		0	0	0	0		0	0		4	4		0		0		0	0	0	0	0	C
	0	0	0	0	0	0	0	0		0	0	0	0		0	0		35	25		0		0		0	0	0	0	0	C
PIN 4940.T7	0	0	0	0	0	0	0	0		0	0	0	0		0	0		2	7		0		0		0	0	0	0	0	С
PIN 4	0	0	0	0	0	0	0	35		45	45	40	35		0	0		35	25		0		0		35	35	35	35	35	35
	0	0	0	0	0	0	0	2		2	2	2	2		0	0		2	2		0		0		3	3	3	က	3	c:
	35	35	40	40	40	40	35	35		45	45	40	35		35	30		35	25		30		30		35	35	35	35	35	35
	158	158	158	158	158	142	142	334		168	168	168	168		289	289		591	591		258		217		229	229	229	229	229	229
	170	258	171	172	173	174	175	176	177	193	194	195	196	197	198	199	200	208	209	210	229	230	231	232	272	218	219	220	221	222
	0.	80	-	.5	33	4	5	9	7	3	4	5	9	2	8	0	0	8	0	0	o,	0	<u>-</u>	2	.5	8	6	0.		2
	point170	point258	point171	point172	point173	point174	point175	point176	point177	point193	point194	point195	point196	point197	point198	point199	point200	point208	point209	point210	point229	point230	point231	point232	point272	point218	point219	point220	point221	point222
olumes																														
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INPUT: TRAFFIC FOR LAeq1h V															Ę.			3B			В		/B		2-2					
AFFIC F										o Pitkin					Monroe-Chestnut NB			Chestnut-Monroe SB			E University Ave EB		E University Ave WB		IL Ramp to Union-2-2					
UT: TR										IL Ramp to Pitkin					onroe-C			nestnut-l			Universi		Universi		Ramp to					

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INPUT: TRAFFIC FOR LAeq1h Volumes						PIN 4	PIN 4940.T7					
	point51	51	74	30	7	30	0	0	က	30	0	0
	point52	52	74	15	2	15	0	0	3	15	0	0
	point53	23	74	10	2	10	0	0	က	10	0	0
	point54	24										
Union-2	point275	275	460	35	6	35	0	0	9	35	0	0
	point66	99	460	25	6	25	0	0	9	25	0	0
	point67	29										
Union-2-2	point276	276	460	35	6	35	0	0	9	35	0	0
	point256	256	288	35	4	35	0	0	0	0	2	35
	point255	255	288	35	4	35	0	0	0	0	2	35
	point68	89	288	35	4	35	0	0	0	0	2	35
	point69	69	351	30	4	30	0	0	0	0	2	30
	point70	20	622	30	80	30	0	0	0	0	4	30
	point71	7.1	622	30	80	30	0	0	0	0	4	30
	point72	72	622	25	80	25	0	0	0	0	4	22
	point73	73										
Union-2-2-2	point277	277	333	30	4	30	0	0	0	0	2	30
	point74	74										
University NB-2	point278	278	719	30	6	30	0	0	0	0	2	30
	point265	265	915	30	47	30	80	30	4	30	4	30
	point266	266	915	30	47	30	80	30	4	30	4	30
	point79	62	915	40	47	40	80	40	4	40	4	40
	point80	80	915	40	47	40	8	40	4	40	4	40
	point81	81	915	40	47	40	8	40	4	40	4	40
	point82	82	915	40	47	40	80	40	4	40	4	40
	point83	83	915	45	47	45	80	45	4	45	4	45
	point84	84	915	45	47	45	8	45	4	45	4	45
	point85	82										
University SB-2	point279	279	292	30	17	30	9	30	22	30	0	0
	point268	268	230	30	2	30	0	0	0	0	4	30
	point267	267	290	30	7	30	0	0	0	0	4	30
	point93	63	290	30	7	30	0	0	0	0	4	30
	point94	94	290	25	7	25	0	0	0	0	4	25
	point95	62	290	25	7	25	0	0	0	0	4	25
	point96	96										
Main EB-2	point280	280	812	25	18	25	0	0	23	25	6	25
			-		-				-			

NPUT: TRAFFIC FOR LAeq1h Volumes						▄	PIN 4940.T7	_	
	point98	86	812	25	18	25	0	0	
	point99	66							
Main EB-2-2	point281	281	812	30	18	30	0	0	
	point262	262	994	30	22	30	0	0	
	point261	261	994	30	22	30	0	0	

						•	,					
	point98	98	812	25	18	22	0	0	23	52	6	22
	point99	66										
Main EB-2-2	point281	281	812	30	18	30	0	0	23	30	6	30
	point262	262	994	30	22	30	0	0	28	30	7	30
	point261	261	994	30	22	30	0	0	28	30	7	30
	point226	226	994	30	22	30	0	0	28	30	7	30
	point100	100										
Main WB-2	point282	282	1056	25	0	0	8	25	15	25	0	0
	point263	263	816	25	0	0	9	25	12	25	0	0
	point264	264	816	25	0	0	9	25	12	25	0	0
	point103	103	816	25	0	0	9	25	12	25	0	0
	point225	225	816	25	0	0	9	25	12	25	0	0
	point104	104	432	30	0	0	3	30	9	30	0	0
	point259	259										
Main WB-2-2	point283	283	202	30	0	0	4	30	7	30	0	0
	point105	105										
East WB-2	point284	284	446	20	2	20	0	0	0	0	2	20
	point253	253	435	20	2	20	0	0	0	0	2	20
	point116	116	435	20	2	20	0	0	0	0	2	20
	point249	249	435	20	2	20	0	0	0	0	2	20
	point117	117										
East WB-2-2	point285	285	435	20	2	20	0	0	0	0	2	20
	point245	245	380	20	4	20	0	0	0	0	4	20
	point118	118										
Broad WB-2	point287	287	61	30	4	30	0	0	17	30	0	0
	point244	244	89	30	2	30	0	0	19	30	0	0
	point126	126	89	30	2	30	0	0	19	30	0	0
	point127	127	89	30	2	30	0	0	19	30	0	0
	point128	128										
Broad EB-2	point288	288	417	15	0	0	0	0	9	15	0	0
	point243	243	279	15	0	0	0	0	4	15	0	0
	point227	227	279	10	0	0	0	0	4	10	0	0
	point134	134										
Pitkin-2	point289	289	334	25	2	25	0	0	43	25	0	0
	point248	248	259	30	4	30	0	0	33	30	0	0
	point247	247	259	35	4	35	0	0	33	32	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes						础	PIN 4940.T7	
	point178	178	259	25	4	25	0	
	point179	179						
Pitkin-2-2	point290	290	259	35	4	35	0	
	point242	242	417	35	0	0	0	
	point241	241	417	40	0	0	0	
	point180	180	449	35	0	0	0	
	point181	181	180	35	0	0	0	
	point182	182	180	35	0	0	0	
	point183	183	180	35	0	0	0	
	point184	184	258	35	9	35	0	
	point185	185	258	35	9	35	0	
	point186	186	258	35	9	35	0	
	point187	187	258	35	9	35	0	
	point188	188	258	25	9	25	0	
	point189	189						
Pitkin-2-2-2	point291	291	258	35	9	35	0	
	point240	240	341	35	8	35	0	
	point239	239	341	35	8	35	0	
	point190	190	1526	35	34	35	0	
	point191	191	1526	35	34	35	0	
	point192	192						
Monroe-Chestnut NB-2	point292	292	258	30	20	30	4	
	point201	201	258	35	20	35	4	
	point202	202	229	25	20	25	4	
	point302	302						
Monroe-Chestnut NB-2-2-2	point294	294	635	35	23	35	5	
	point237	237	413	35	15	35	3	
	point205	205	413	35	15	35	3	

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point211 point212

point295

Chestnut-Monroe SB-2

point207

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Chestnut-Monroe SB-2-2

INPUT: TRAFFIC FOR LAeq1h Volumes						PIN	PIN 4940.T7					
	point213	213	737	30	2	30	2	30	2	30	0	0
	point214	214										
Chestnut-Monroe SB-2-2-2	point297	297	736	30	2	30	2	30	2	30	6	30
	point215	215	736	35	2	35	2	35	2	35	6	35
	point216	216										
Haags EB/WB	point299	299	36	10	0	0	0	0	0	0	0	0
	point300	300										
East EB	point119	119	552	20	0	0	0	0	က	20	9	20
	point246	246	717	20	0	0	0	0	4	20	8	20
	point120	120	717	20	0	0	0	0	4	20	80	20
	point250	250	717	20	0	0	0	0	4	20	80	20
	point121	121										
East EB-2	point301	301	717	20	0	0	0	0	4	20	8	20
	point286	286	911	20	0	0	0	0	2	20	10	20
	point122	122	911	20	0	0	0	0	2	20	10	20
	point123	123										
Monroe-Chestnut NB-2-2	point303	303	229	25	20	25	4	22	16	22	0	0
	point293	293	635	25	23	25	2	22	18	22	0	0
	point228	228	635	25	23	25	2	52	18	22	0	0
	point204	204										

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Watts						15 Noven	15 November 2013				
JKK						TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	PIN 4	PIN 4940.T7									
RUN:	2035	No Buil	2035 No Build Inner Loop Noise	Noise							
Receiver											
Name	No.	#DUS Co	Coordinates (ground)	(ground)		Height	Input Sou	Input Sound Levels and Criteria	nd Criteri	o .	Active
			×	>	7	above	Existing	Impact Criteria	teria	Z Z	ء.
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dВ	
Receiver A	1	_	1,409,838.0	1,149,594.0	1.00	4.92	65.30	99	10.0		8.0 Y
Receiver B	12	_	1,410,833.0	1,149,476.0	00.00	4.92	95.70	99	10.0		8.0 Y
Receiver C	13	_	1,410,370.0	1,149,874.0	1.00	4.92	60.90	99	10.0		8.0 Y
Receiver D	14	_	1,411,136.0	1,150,240.0	1.00	4.92	2 65.20	99	10.0		8.0 Y
Receiver E	15		1,410,966.0	1,150,771.0	0.00	4.92	56.20	99	10.0		8.0 Y
Receiver F	16	-	1,411,497.0	1,151,129.0	1.00	4.92	64.40	99	10.0		8.0 Y
Receiver G	17	_	1,411,904.0	1,152,155.0	0.00	4.92	64.10	99	10.0		8.0 Y
Receiver H	18		1,411,615.0	1,152,922.0	0.00	4.92	62.80	99	10.0		8.0 Y
Receiver I	19	_	1,411,816.0	1,153,208.0	00.00	4.92	62.90	99	10.0		8.0 Υ

15 November 2013

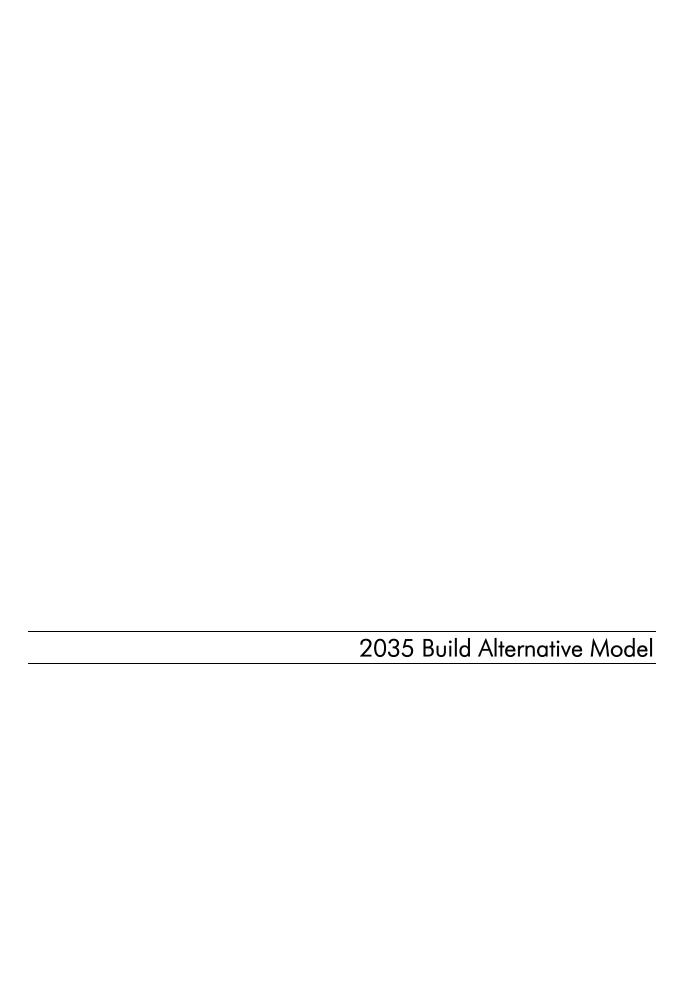
INPUT: BARRIERS

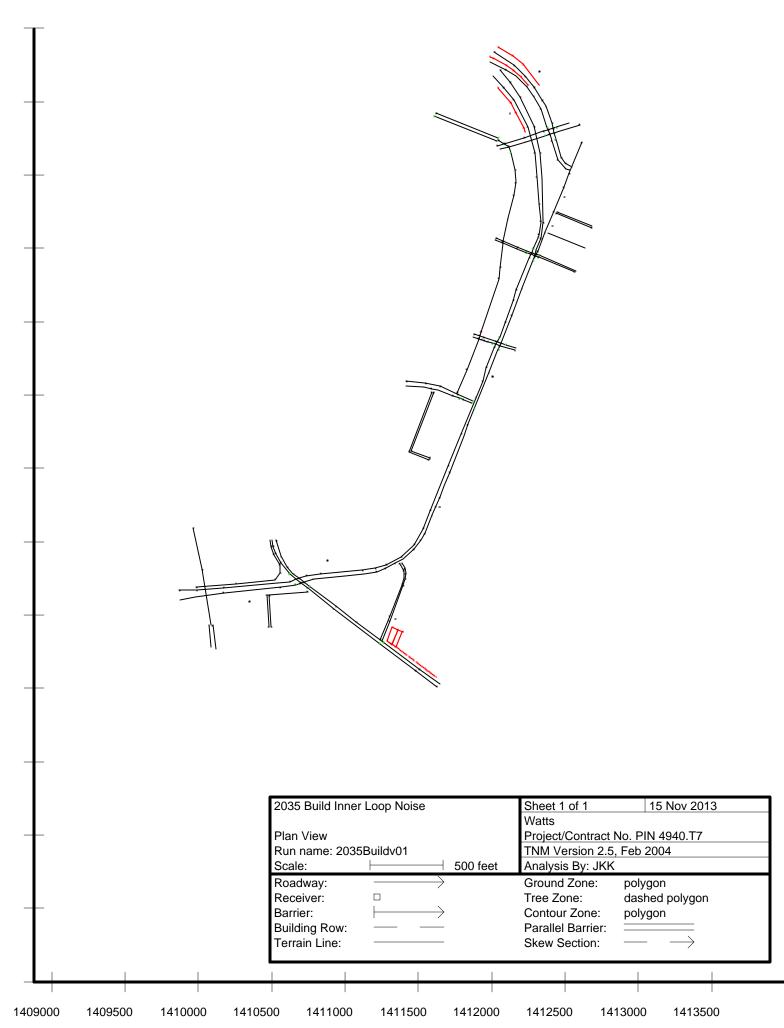
Watts				15 Nove	15 November 2013	3											
ЛКК				TNM 2.5													
INPUT: BARRIERS																	
PROJECT/CONTRACT:	PIN 4940.T7																
RUN:	2035 No Build Inner Loop Noise	Inner Lo	op Nois	9													
Barrier								Points									
Name	Type Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)	(bottom)		Height	Segment	ŧ		
	Min	Max	\$ per	\$ per	Top	Run:Rise	\$ per		×		>	Z	ä	Seg Ht Perturbs	Pertur	ps On	Important
			Unit		Width	_	Unit						Point	Incre-	# dn#	Incre- #Up #Dn Struct? Reflec-	Reflec-
							Length							ment			tions?
	Ħ	#	\$/sd ft	\$/cu yd ft		fr:ft	\$/ft		¥		#	#	¥	¥			
Barrier2	W 0.00	66.66	0.00				00.00	point1	-	1,411,532.1	1,153,099.0	00.0	00.00	0.00	0	0	
								point2	7	1,411,620.0	1,152,996.4	.4 0.00	0.00	0.00	0	0	
								point3	က	1,411,653.1	1,152,926.9	00.0	00.00	0.00	0	0	
								point4	4	1,411,707.6	1,152,821.8	.8	00.00	0.00	0	0	
								point5	2	1,411,718.1	1,152,793.8	.8	0.00				
Barrier3	W 0.00	66.66	0.00				00.00	point6	9	1,411,740.9	1,153,118.5	5 0.00	4.00	0.00	0	0	
								point36	36	1,411,688.8	1,153,173.9	00.0	4.00	0.00	0	0	
								point7	7	1,411,639.0	1,153,217.2	.2 0.00	4.00	0.00	0	0	
								point8	8	1,411,588.0	1,153,252.5		4.00	0.00	0	0	
								point9	တ	1,411,498.6	1,153,300.6	00.0	4.00	0.00	0	0	
								point10	10	1,411,476.1	1,153,311.1	.1 0.00	4.00				
Barrier4	W 0.00	66.66	0.00				00.00	point11	11	1,411,812.5	1,153,117.4	.4 0.00	00.00	0.00	0	0	
								point12	12	1,411,705.1	1,153,257.0	00.00	00.00	0.00	0	0	
								point13	13	1,411,633.0				0.00	0	0	
								point14	14	1,411,536.1	1,153,375.6						
Apartment Bldg	W 0.00	66.66	0.00				00.00	point15	12	1,410,849.0	1,149,404.0			0.00	0	0	
								point16	16	1,410,812.0	1,149,419.0	.00 0.00	50.00	0.00	0	0	
								point17	17	1,410,776.0	1,149,325.0	00.0	20.00	0.00	0	0	
								point18	18	1,410,809.0	1,149,302.0	00:0	20.00	0.00	0	0	
								point19	19	1,410,849.0	1,149,402.5	5 0.00	20.00				
Low Building	W 0.00	66.66	0.00				00.00	point20	20	1,410,882.9	1,149,390.1	.1 0.00	12.00	0.00	0	0	
								point21	21	1,410,849.9	1,149,403.1				0	0	
								point22	22	1,410,809.8	1,149,302.0			0.00	0	0	
								point23		1,410,836.4				0.00	0	0	
								point24	54	1,410,881.4	1,149,389.1	.1 0.00	12.00				

0.00

PIN 4940.T7

INPUT: BUILDING ROWS





RESULTS: SOUND LEVELS	-		-			-	PIN 4940.T7	2	-	-			
Watts							15 Nover	15 November 2013					
ЛКК							TNM 2.5						
							Calculate	Calculated with TNM 2.5	M 2.5				
RESULTS: SOUND LEVELS													
PROJECT/CONTRACT:		PIN 4940.T7	40.T7										
RUN:		2035 B	2035 Build Inner L	oop Noise									
BARRIER DESIGN:		INPUT	INPUT HEIGHTS					Average	Average pavement type shall be used unless	e shall be us	ed unless		-
								a State h	a State highway agency substantiates the use	y substantiat	es the use	o	-
ATMOSPHERICS:		оер 89	68 deg F, 50% RH	_				of a diffe	of a different type with approval of FHWA	approval of I	FHWA.		
Receiver													
Name	Š.	#DNs	Existing	No Barrier					With Barrier				
			LAeq1h	LAeq1h		Increase over existing	er existing	Type	Calculated	Noise Reduction	ction	-	
				Calculated	ב	Calculated	Sub'l Inc	Ішраст	LAeq1n	Calculated	Goal	Calculated	De le
												Goal	
			dBA	dBA	dBA	ф	용		dBA	8 B	ф	ВВ	
Receiver A	11		65.3	65.7) 99	1 1	10	65.7	0.0	C	8	-8.0
Receiver B	12		65.7	8.99		99	1.1	Snd LvI	8.99	3 0.0	0	8	-8.0
Receiver C	13		6.09	2.09)- 99	-0.2		2.09	0.0	0	8	-8.0
Receiver D	41		65.2	62.9		99	0.7 10	0	62.9	9 0.0	0	8	-8.0
Receiver E	15		56.2	55.8)- 99	-0.4		55.8	3 0.0	0	8	-8.0
Receiver F	16		64.4	67.3		99	2.9	10 Snd Lvl	67.3	3 0.0	0	8	-8.0
Receiver G	17		64.1	66.2		99	1.7	10 Snd Lvl	66.2	0.0	0	8	-8.0
Receiver H	18		62.8	62.9		99	0.1	10	62.9	0.0	0	8	-8.0
Receiver I	19		62.9	62.8)- 99	-0.1		62.8	3 0.0	0	8	-8.0
Test Receiver	22		0.0	63.7		99	63.7 10		63.7	0.0	0	8	-8.0
Dwelling Units		# DNs	Noise Red	duction									
			Min	Avg	Max								
			dВ	dВ	dВ								
All Selected		10	0.0	0.0	0.0	0							
All Impacted		(-)	3 0.0	0.0	0.0	0							
All that meet NR Goal		0	0.0	0.0	0.0	0							

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INPUT: ROADWAYS							PIN 4	PIN 4940.T7			
Watts					15 November 2013	2013					
JKK					TNM 2.5						
INPUT: ROADWAYS							Average	Average pavement type shall be used unless	oe shall be u	nsed unles	_ _
PROJECT/CONTRACT:	PIN 4940.T7	1					a State h	a State highway agency substantiates the use	cy substant	iates the u	Se
RUN:	2035 Build Inner	_	Loop Noise				of a diffe	of a different type with the approval of FHWA	ı the apprον	val of FHW	Ą
Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)	(pavement)		Flow Control	itrol		Segment	
				×	<u> </u>	Z	Control	Speed	Percent	Pvmt	o
							Device	Constraint	Vehicles	Туре	Struct?
									Affected		
	¥			#	ff	Ħ		mbh	%		
IL Ramp EB	24.0	point1	-	1,409,365.1	1,149,604.8	00.00				Average	
		point2	2	1,409,469.0	1,149,625.9	0.00				Average	
		point3	3	1,409,663.0	1,149,656.2	0.00				Average	
		point4	4	1,410,052.2	1,149,692.0	0.00				Average	
		point308	308	1,410,156.1	1,149,710.5	0.00					
IL N Ramp WB	24.0		24	1,411,498.4	1,153,176.4	-5.00				Average	
		point25	25	1,411,574.1	1,153,098.4	-10.00				Average	
		point26	26	1,411,639.4	1,153,015.8	-10.00				Average	
		point27	27	1,411,737.1	1,152,827.8	-20.00				Average	
		point28	28	1,411,784.1	1,152,652.4	-20.00				Average	
		point29	29	1,411,796.2	1,152,488.2	-15.00				Average	
		point30	30	1,411,815.0	1,152,303.4	-10.00				Average	
		point31	31	1,411,826.0		-10.00				Average	
		point331	331	1,411,809.6		-6.50				Average	
		point327	327	1,411,805.4		-5.00				Average	
		point378	378	1,411,772.9	1,151,997.4	-1.00					
Union Spur NB	10.0	point55	52	1,410,744.4	1,149,327.0	0.00	Signal	0.00	09	Average	
		point304	304	1,410,793.8	1,149,463.9	0.00				Average	
		point303	303	1,410,888.9	1,149,705.6	00.00				Average	
		point56	56	1,410,902.4	1,149,750.2	0.00				Average	
		point302	302	1,410,905.4		0.00				Average	
		point57	22	1,410,896.0	1,149,823.0	0.00				Average	
		point58	58	1,410,877.1	1,149,855.9	0.00					
University NB-1	24.0		75	1,412,034.9		0.00	Signal	0.00	40	Average	
		point76	9/	1,411,993.0	1,152,583.1	0.00				Average	

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INPUT: ROADWAYS						4 NIA	PIN 4940.T7		
		point77	77 1	1,411,963.8	1,152,623.2	0.00		Average	
		point78	78 1	1,411,925.9	1,152,747.1	0.00			
University SB-1	24.0	point86	1 86	1,411,477.6	1,153,270.6	-7.00		Average	>-
		point87	87 1	1,411,589.1	1,153,219.1	-5.00		Average	
		point88	88	1,411,658.9	1,153,175.1	-3.00		Average	
		point89	89	,411,733.9	1,153,103.9	0.00		Average	
		point90	90	1,411,781.6	1,153,036.4	0.00		Average	
		point91	91	1,411,824.9	1,152,951.5	0.00		Average	
		point92	92 1	1,411,870.4	1,152,827.1	0.00			
Main EB-1	36.0	point97	97 1	1,411,544.4	1,152,678.9	0.00		Average	
		0	260 1	1,411,605.2	1,152,696.0	0.00			
Main WB-1	36.0	point101	101	1,412,018.1	1,152,857.0	0.00		Average	
		point102	102	1,411,928.9	1,152,828.2	0.00			
Richmond WB	12.0		106 1	1,412,175.0	1,152,156.9	0.00		Average	
		point107	107	1,411,936.2	1,152,252.4	0.00			
Richmond EB	12.0	point108	108	1,411,929.5	1,152,241.8	0.00 Onramp	10.00) Average	
		point109	109	1,412,172.8	1,152,144.8	0.00			
Charlotte WB-1	12.0	point110	110 1	1,412,062.1	1,151,851.6	0.00		Average	
		point111	111	1,411,811.6	1,151,955.1	0.00			
East WB	24.0	4	114	1,411,655.8	1,151,324.2	0.00		Average	
		point115	115 1	1,411,585.5	1,151,347.5	0.00			
East EB	24.0	0	119 1	1,411,364.0	1,151,400.1	0.00		Average	
			246 1	1,411,400.8	1,151,388.0	0.00		Average	
	<u> </u>	point120	120 1	1,411,424.6	1,151,380.2	0.00		Average	
		point250	250 1	1,411,441.9	1,151,374.4	0.00		Average	
				1,411,465.2	1,151,366.5	0.00		Average	
				1,411,499.1	1,151,354.9	0.00			
Broad EB-1	24.0		129 1	1,410,906.2	1,151,066.9	0.00		Average	
	<u> </u>	point130	130 1	1,411,028.9	1,151,057.9	0.00		Average	
	<u> </u>	1	131 1	1,411,080.9	1,151,046.6	0.00		Average	
		point132	132 1	1,411,127.6	1,151,036.5	0.00		Average	
		point315	315 1	1,411,227.6	1,150,998.5	0.00		Average	
		point133	133 1	1,411,273.1	1,150,980.0	0.00			
Savannah NB	12.0	10	135 1	1,411,070.2	1,150,573.0	0.00 Onramp	10.00) Average	
	<u> </u>		136 1	1,410,942.9	1,150,623.8	0.00		Average	
		point137	137 1	1,411,096.8	1,151,021.0	0.00			
Savannah SB	12.0	point138	138 1	1,411,081.6	1,151,021.0	0.00 Onramp	10.00) Average	
	<u> </u>		139 1	1,410,928.5	1,150,613.1	0.00		Average	
		point140	140	1,411,064.1	1,150,560.9	0.00			
						•			

Average

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1,152,655.8

1,411,620.4

171

point171

1,411,136.8

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point198

24.0

Monroe-Chestnut NB-1

0.00 00

1,149,135.8

1,410,995.0

point199

Average

Average

Average

Average

Average

Average

100

10.00

0.00 Onramp

1,152,047.1

1,411,565.8

328

point328 point369 point330 point174

12.0

Pitkin NB-1

1,411,567.0

369

0.00 0.00 0.00 0.00 0.00

1,152,207.4 1,152,367.6 1,152,455.0 1,152,539.6

1,411,603.0

330 174 173

1,411,640.1

1,411,655.8

point173 point172

Average Average Average Average

1,149,921.0

1,410,018.1

point209

point314 point210 point229

1,149,856.6

1,410,051.8

1,150,017.8

1,409,991.2

1,410,001.8

1,149,316.1

200 208 313 209 209 314 210

point200 point208 point313

24.0

Chestnut-Monroe SB-1

Average

Average

20

0.00

Signal

0.00

1,152,904.0

1,411,100.0

1,411,527.0

point230 point231

24.0

1,149,782.6

Average

20

0.00

Signal

0.00

1,152,755.0 1,152,924.0 1,150,909.8

231

24.0

W University Ave WB

Union NB-3

W University Ave EB

Average

40

0.00

Signal

0.00

1,411,371.2

1,411,109.0

point232 point275

24.0

12.0 poin 12.0 poin poin	oint141	77		-						
		141	1,409,987.6	1,409,987.6 1,149,421.6	0.00	0.00 Onramp	10.00	100	Average	
	point142	142	1,409,974.8	1,149,639.1	00.0					
ğ	point143	143	1,409,958.0	1,409,958.0 1,149,637.6	00.00	0.00 Onramp	10.00	100	Average	
-	point144	144	1,409,970.9 1,149,420.1	1,149,420.1	00.00					
24.0 pc	point145	145	1,409,608.5	1,149,271.5	20.00				Average	
ğ	point146	146	1,409,586.6	1,149,435.2	20.00					
24.0 pc	point147	147	1,409,575.2	1,149,285.9	20.00				Average	
ğ	oint148	148	1,409,562.4	1,149,433.0	20.00					
48.0 pc	oint149	149	1,409,575.2	1,149,436.0	20.00				Average	>
ğ	oint150	150	1,409,518.0	1,149,815.6	20.00				Average	
ğ	oint151	151	1,409,457.0	1,150,098.6	20.00					
12.0 pc	oint152	152	1,409,978.0	1,150,016.0	00.00				Average	
ğ	oint311	311	1,409,988.2	1,149,966.5	00.00				Average	
ğ	oint153	153 ′	1,410,005.6	1,149,913.8	00.0				Average	
ă	oint154	154	1,410,046.1	1,149,844.9	00.00				Average	
ğ	oint312	312	1,410,049.8	1,149,786.2	00.00				Average	
ğ	oint155	155 ′	1,410,011.0	1,149,741.0	00.00				Average	
ğ	oint310	310	1,409,743.9	1,149,715.4	00.00				Average	
ğ	oint156	, 951	1,409,476.2	1,149,692.2	00.00					
			point148 148 point149 149 point150 150 point151 151 point152 152 point153 153 point154 154 point155 155 point155 155	point148 1409,562.4 point149 149 1,409,562.4 point150 150 1,409,575.2 point151 151 1,409,457.0 point152 152 1,409,978.0 point153 153 1,410,005.6 point154 154 1,410,046.1 point155 155 1,410,049.8 point155 155 1,410,041.0 point156 156 1,409,743.9	point148 148 1,409,575.2 point149 149 1,409,575.2 point150 150 1,409,575.2 point151 151 1,409,457.0 point152 152 1,409,978.0 point153 153 1,410,005.6 point154 154 1,410,046.1 point155 155 1,410,049.8 point155 155 1,410,011.0 point156 156 1,409,743.9	point148 148 1,409,562.4 1,149,433.0 point148 149 1,409,562.4 1,149,433.0 point149 149 1,409,575.2 1,149,436.0 point150 150 1,409,457.0 1,149,815.6 point151 151 1,409,978.0 1,150,098.6 point151 311 1,409,988.2 1,149,913.8 point153 153 1,410,005.6 1,149,913.8 point155 155 1,410,046.1 1,149,844.9 point155 155 1,410,041.0 1,149,741.0 point156 156 1,409,743.9 1,149,715.4 point156 156 1,409,743.9 1,149,715.4	point148 148 1,409,562.4 1,149,433.0 point148 149 1,409,562.4 1,149,433.0 point149 149 1,409,575.2 1,149,436.0 point150 150 1,409,518.0 1,149,815.6 point151 151 1,409,978.0 1,150,098.6 point151 311 1,409,988.2 1,149,913.8 point153 153 1,410,005.6 1,149,913.8 point155 155 1,410,046.1 1,149,844.9 point155 155 1,410,011.0 1,149,741.0 point156 156 1,409,743.9 1,149,715.4 point156 156 1,409,743.9 1,149,715.4	point148 148 1,409,562.4 1,149,433.0 point148 149 1,409,562.4 1,149,433.0 point149 149 1,409,575.2 1,149,436.0 point150 150 1,409,518.0 1,149,815.6 point151 151 1,409,978.0 1,150,098.6 point151 311 1,409,988.2 1,149,968.5 point153 153 1,410,005.6 1,149,913.8 point154 154 1,410,046.1 1,149,844.9 point155 155 1,410,011.0 1,149,741.0 point156 156 1,409,743.9 1,149,715.4 point156 156 1,409,743.9 1,149,715.4	point148 148 1,409,562.4 1,149,433.0 point149 149 1,409,562.4 1,149,433.0 point150 150 1,409,518.0 1,149,815.6 point151 151 1,409,978.0 1,150,098.6 point151 311 1,409,988.2 1,149,913.8 point153 153 1,410,005.6 1,149,913.8 point154 154 1,410,046.1 1,149,913.8 point155 155 1,410,049.8 1,149,786.2 point155 155 1,409,743.9 1,149,741.0 point156 156 1,409,743.9 1,149,715.4 point156 156 1,409,476.2 1,149,692.2	point148 148 1,409,562.4 1,149,433.0 20.00 point148 148 1,409,575.2 1,149,436.0 20.00 point150 150 1,409,576.2 1,149,436.0 20.00 point151 151 1,409,457.0 1,150,098.6 20.00 point151 151 1,409,978.0 1,150,016.0 0.00 point153 153 1,410,005.6 1,149,913.8 0.00 point154 154 1,410,046.1 1,149,844.9 0.00 point155 152 1,410,041.0 1,149,746.2 0.00 point155 155 1,410,011.0 1,149,741.0 0.00 point155 156 1,409,743.9 1,149,715.4 0.00

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INPUT: ROADWAYS

INPUT: ROADWAYS							PIN 4	PIN 4940.17			
	<u> </u>	point66	99	1,411,472.9	1,151,161.6	0.00				Average	
	<u> </u>	point67	67 1	1,411,536.6	1,151,315.6	0.00					
Union NB-4	24.0 p	point276	276 1	1,411,536.6	1,151,315.6	00.0	Signal	00.00	20	Average	
	۵	point256	256 1	1,411,544.5	1,151,339.4	0.00				Average	
	٥	point255	255 1	1,411,552.1	1,151,358.8	0.00				Average	
	۵	point68	68	1,411,627.0	1,151,549.9	00.00				Average	
	۵	point345	345 1	1,411,698.5	1,151,733.6	0.00				Average	
	۵	point69	69	1,411,773.4	1,151,922.4	0.00					
Union NB-6	12.0 p	_	277 1	1,412,020.4	1,152,514.5	0.00	Signal	0.00	09	Average	
	۵	point74	74 1	1,412,104.5	1,152,725.1	0.00					
University NB-2	24.0 p	m	278 1	1,411,925.9	1,152,747.1	0.00	Signal	0.00	20	Average	
	۵	point265	265 1	1,411,916.5	1,152,791.4	0.00				Average	
	۵	point266	266 1	1,411,910.0	1,152,822.2	0.00				Average	
	۵	point79	79	1,411,902.1	1,152,859.8	0.00				Average	
	0.	point80	80	1,411,858.1	1,152,971.9	0.00				Average	
	٥	point81	81	1,411,836.2	1,153,015.9	0.00				Average	
	٥	point82	82	1,411,779.4	1,153,103.9	0.00				Average	
	٥	point83	83	1,411,718.8	1,153,176.6	-3.00				Average	
	۵	point84	84	1,411,642.9	1,153,250.1	-10.00				Average	
	0.	point85	85	1,411,508.0	1,153,343.4	-20.00					
University SB-2	24.0 p	0	279 1	1,411,870.4	1,152,827.1	0.00	Signal	0.00	20	Average	
	<u>a</u>		268 1	1,411,875.6	1,152,811.1	00.0				Average	
	d	point267	267 1	1,411,885.1	1,152,781.4	0.00				Average	
	d	point93	93 1	1,411,900.6	1,152,733.5	0.00				Average	
	<u>a</u>	point94	94	1,411,941.2	1,152,604.8	00.0				Average	
	<u>a</u>	point95		1,411,994.1	1,152,547.6	0.00				Average	
	۵	point96	96	1,412,025.8	1,152,535.4	0.00					
Main EB-2	36.0 p	0	280 1	1,411,605.2	1,152,696.0	0.00	Signal	0.00	20	Average	
	۵	point98		1,411,722.0	1,152,729.1	0.00				Average	>
	۵			1,411,855.6	1,152,772.1	0.00					
Main EB-3	36.0 p	point281	281	1,411,855.6	1,152,772.1	00.0	Signal	0.00	20	Average	
	٥		262	1,411,885.1	1,152,781.4	0.00				Average	
	Δ.	_	261 1	1,411,916.5	1,152,791.4	0.00				Average	
	d	point226	226 1	1,411,958.5	1,152,804.8	0.00				Average	
	d	0	100	1,412,090.1	1,152,847.1	0.00					
Main WB-2	36.0 p	point282	282	1,411,928.9	1,152,828.2	00.0	Signal	0.00	20	Average	
	۵	point263	263 1	1,411,910.0	1,152,822.2	0.00				Average	
	۵	₹+		1,411,875.6	1,152,811.1	0.00				Average	
	<u> </u>	point103	103	1,411,841.0	1,152,800.2	00.0				Average	>
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940.T7	
PIN 4	
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	od	point225	225 1	1,411,710.5	1,152,759.0	00.00				Average	
	od	point104	104 1	1,411,575.9	1,152,717.5	00.00				Average	
	od.	point259	259 1	1,411,570.9	1,152,716.0	0.00					
Main WB-3	36.0 po	m	283 1	1,411,570.9	1,152,716.0	0.00	Signal	00.00	20	Average	
	od	point105	105 1	1,411,525.4	1,152,703.1	0.00					
East WB-2	24.0 po	4	284 1	1,411,585.5	1,151,347.5	0.00	Signal	0.00	20	Average	
	od	point253	253 1	1,411,552.1	1,151,358.8	0.00				Average	
	od	point116	116 1	1,411,528.4	1,151,366.6	0.00				Average	
	od	point249	249 1	1,411,513.1	1,151,371.6	0.00				Average	
	<u>a</u>	point117	117 1	1,411,433.6	1,151,398.5	0.00					
East WB-2-2	24.0 po	point285	285 1	1,411,433.6	1,151,398.5	00.00				Average	
	od	point245	245 1	1,411,407.4	1,151,407.1	0.00				Average	
	od.	point118	118	1,411,369.6	1,151,419.4	0.00					
East EB-2	24.0 po	point286	286 1	1,411,499.1	1,151,354.9	00.0	Signal	00.00	20	Average	
	<u>a</u>	point348	348 1	1,411,518.8	1,151,348.2	0.00				Average	
	od.	point122	122	1,411,544.5	1,151,339.4	0.00				Average	
	od.		123 1	1,411,651.1	1,151,306.8	0.00					
Broad WB	12.0 po	point287	287 1	1,411,364.0	1,150,963.0	0.00	Signal	00.00	20	Average	
	od	point244	244 1	1,411,257.0	1,151,007.1	0.00					
Broad EB-2	24.0 po	~		1,411,273.1	1,150,980.0	0.00	Signal	0.00	20	Average	
	od		243 1	1,411,298.1	1,150,969.8	0.00				Average	
	bd	point227	227 1	1,411,338.9	1,150,953.4	0.00				Average	
	od		134 1	1,411,356.2	1,150,946.5	0.00					
Pitkin SB-2	12.0 po	0		1,411,416.5	1,151,434.2	0.00	Stop	00.00	06	Average	
	od		248 1	1,411,407.4	1,151,407.1	0.00				Average	
	od	point247	247 1	1,411,400.8	1,151,388.0	0.00				Average	
	od	point178	178 1	1,411,319.0	1,151,174.5	0.00				Average	
	od		179 1	1,411,254.2	1,151,017.4	0.00					
Monroe-Chestnut NB-2	12.0 po			1,410,752.4	1,149,316.1	0.00	Signal	00.00	20	Average	
	<u>a</u>	_		1,410,564.6	1,149,457.2	0.00				Average	
	od	point202	202	1,410,425.9	1,149,562.6	0.00				Average	
	od	point203	203	1,410,246.8	1,149,700.1	0.00					
Monroe-Chestnut NB-3	24.0 po	point294	294 1	1,410,246.8	1,149,700.1	0.00	Signal	0.00	20	Average	
	od	point382	382 1	1,410,210.6	1,149,728.0	0.00				Average	
	od.	point383	383	1,410,177.0	1,149,753.9	0.00				Average	
	od	point237	237 1	1,410,137.5	1,149,784.6	0.00				Average	
	od	point205		1,410,098.0	1,149,829.0	0.00				Average	
	od	point206		1,410,051.5	1,149,905.8	0.00				Average	
	<u></u>	point207	207 1	1,410,021.5	1,150,013.1	0.00					
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point236 288 14/0,1286 11/48/212 0.00 point236 288 14/0,1286 11/48/212 0.00 point237 287 14/0,1286 11/48/3082 0.00 point24 214 14/0,1286 11/48/3082 0.00 point259 289 14/1,1282 11/48/0118 0.00 point250 289 14/1,192 11/48/0118 0.00 point250 289 14/1,192 11/48/0118 0.00 point250 289 14/1,192 11/48/0118 0.00 point250 289 14/1,192 11/48/0118 0.00 point250 289 14/1,192 11/48/012 0.00 point250 289 14/1,192 11/48/012 0.00 point260 289 14/1,192 11/48/012 0.00 point27 321 14/10/888 11/48/857 0.00 point28 280 14/1,033 11/48/012 0.00 point28 280 14/1,131 11/48/21 11/48/21 0.00 point59 280 14/1,131 11/48/21 0.00 point69 80 14/1,134 11/48/21 11/48/21 0.00 point69 80 14/1,134 11/48/21 11/48/21 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point69 80 14/1,134 11/48/21 11/48/22 0.00 point70 77 14/1,186 11/52/22 11/22/25 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point70 77 14/1,186 11/48/22/21 0.00 point80 386 14/1,772 11/48/29/24 0.00 point80 386 14/1,772 11/48/29/24 0.00 point80 386 14/1,772 11/48/29/24	Chestnut-Monroe SB-2		ပ္		Signal	20	Average	
point 394 384 14/0,1285 1148,721,2 0.00 point 32 23 14/0,1285 1148,954.8 0.00 point 32 23 14/0,1285 1148,938.2 0.00 Signal 0.00 50 point 32 23 14/0,1285 1148,938.2 0.00 Signal 0.00 50 point 32 23 14/0,940.1 14,840,126.0 0.00 120 point 30 30 14,12.120 1152,040 0.00 point 30 30 14,12.120 1152,040 0.00 point 30 30 14,12.120 1152,040 0.00 point 30 30 14,12.120 1152,040 0.00 point 30 30 14,10.833 1149,857.6 0.00 point 30 30 14,10.833 1149,857.6 0.00 point 30 30 14,10.831 1150,058 0.00 point 30 30 14,11.109 1150,183 1 0.00 point 30 30 14,11.109 1150,183 1 0.00 point 30 50 14,11.109 1150,183 1 0.00 point 30 50 14,11.109 1150,183 1 0.00 point 30 50 14,11.109 1150,183 1 0.00 point 30 50 14,11.109 1150,183 1 0.00 point 30 50 14,11.109 1150,183 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,286 1 0.00 point 30 50 14,11.109 1150,288 1 14,11.109 1 0.00 point 30 50 14,11.109 1 1151,386 1 0.00 point 30 50 1		point3	2		0.00		Average	
9 point235 2255 1410,228,1 1149,684,4 0.00 9e SB-3 120 1410,4728,8 1149,5308.2 0.00 50 9e SB-3 120 1410,4728,8 1149,308.2 0.00 50 9e SB-3 120 1410,7728,8 1149,308.2 0.00 50 120 point297 229 141,187.2 0.00 50 120 point302 229 141,187.2 1.40,000 0.00 120 point32 322 141,008.3 1.48,308.2 0.00 120 point32 322 141,008.6 0.00 140 140,008.8 1.149,687.4 0.00 150 141,008.8 1.149,687.4 0.00 150 141,008.8 1.149,687.4 0.00 150 141,008.8 1.149,687.4 0.00 150 141,008.8 1.149,687.4 0.00 150 141,008.8 1.149,687.4 0.00 150 141,1170.8 1.140,608.		point3	4		0.00		Average	
Doning 1 213 1410,414 1149,5418 0.00 To SB-3 120 point 21 27 1410,725.8 1,149,308.2 0.00 Doning 1 22 1411,710,728.8 1,149,122.5 0.00 Doning 2 229 1411,710.8 1,149,122.5 0.00 Doning 2 229 1411,710.8 1,149,120.8 0.00 To point 2 229 1411,710.8 1,149,120.0 0.00 Doning 2 229 1411,710.8 1,149,120.0 0.00 Doning 2 229 1411,008.8 1,149,187.4 0.00 Doning 2 22 1410,009.8 1,149,187.4 0.00 Doning 2 22 1411,009.8 1,149,187.4 0.00 Doning 2 22 1411,009.8 1,149,187.4 0.00 Doning 2 29 1411,009.8 1,149,187.4 0.00 Doning 2 29 1411,009.8 1,149,187.8 0.00 Doning 2 29 1411,009.8 1,149,187.8 0.00 Doning 2 29 1411,009.8 1,149,187.8 0.00 Doning 2 29 1411,009.8 1,149,187.8 0.00 Doning 2 29 1411,009.8 1,149,187.8 0.00 Doning 2 29 1411,009.8 1,149,187.8 0.00 Doning 3 20 1411,009.8 1,149,187.8 0.00 Doning 4 2 1411,771.8 1,150,726 0.00 Doning 5 28 1411,709.8 1,149,187.8 0.00 Doning 6 2 1411,771.8 1,150,726 0.00 Doning 6 2 1411,771.8 1,150,726 0.00 Doning 7 2 1411,771.8 1,150,726 0.00 Doning 8 29 1411,771.8 1,150,726 0.00 Doning 8 29 1411,771.8 1,150,726 0.00 Doning 8 29 1411,771.8 1,150,726 0.00 Doning 9 29 1411,771.8 1,150,726 0.00 Doning 9 29 1411,771.8 1,150,726 0.00 Doning 9 29 1411,771.8 1,150,726 0.00 Doning 9 29 1411,771.8 1,151,726.1 0.00 Doning 9 29 1411,772.8 1,151,926.1 0.00 Doning 9 29 1411,772.9 1,151,926.1 0.00 Doning 9 29 1411,772.9 1,151,926.1 0.00 Doning 9 29 1411,772.9 1,151,926.1 0.00 Doning 9 29 1411,772.9 1,151,926.1 0.00 Doning 9 29 1411,772.9 1,151,926.1 0.00 Doning 9 29 1411,772.9 1,151,926.1 0.00 Doning 9 20 1411,772.9 1,151,926.1 0.00		point2	2		0.00		Average	
Doint 21 4 214 1410,725 8 1149,308 2 0.00 Doint 21 2 15 1410,724 0 1149,122 5 0.00 Doint 21 2 15 1410,724 0 1149,122 5 0.00 12		point2	က		0.00		Average	
12.0		point2	4		0.00			
Point216 216 14410,974.0 1149,1225 0.00 120 Point26 226 1441,1192, 1142,004.0 0.00 120 Point320 329 1441,1192, 0142,004.0 0.00 120 Point321 322 1440,887.6 0.00 Point322 322 14410,883.5 1498,887.6 0.00 Point323 323 14410,895 1450,977.8 0.00 Point324 323 14410,895 1450,977.8 0.00 Point69 60 1441,1496 1450,978.0 0.00 Point60 60 1441,1496 1450,478.0 0.00 Point60 60 1441,1496 1450,488.0 0.00 Point60 60 1441,1304.1 1450,485.0 0.00 Point60 60 1441,1304.1 1450,485.0 0.00 Point60 60 1441,372.1 1450,885.0 0.00 Point60 60 1441,371.1 1450,885.0 0.00 Point60 80 1441,871.1 1450,875.0 0.00 Point60 80 1441,871.1 1450,875.0 0.00 Point60 80 1441,871.1 1450,875.0 0.00 Point60 80 1441,872.1 1451,885.1 0.00 Point60 80 1441,885.1 1451,882.2 0.00 Point70 77 1441,885.1 1451,882.2 0.00 Point60 80 1441,785.1 1451,882.1 0.00 Point60 80 1441,785.1 1451,882.2 0.00 Point60 80 1441,785.2 1450,000 Point60 80 1441,785.2 1450,000 Poi	Chestnut-Monroe SB-3				Signal	20	Average	
12.0 point/29 229 141,872 1,149,0118 0.00		point2	2		0.00		Average	
12.0 point329 299 1411,872.0 1152,106.0 0.00 12.0 point322 322 1,410,888.8 1,149,887.4 0.00 12.0 point323 323 1,410,088.8 1,149,887.4 0.00 12.0 point323 323 1,410,088.8 1,149,887.4 0.00 12.0 point323 323 1,410,088.8 1,149,887.4 0.00 12.0 point39 299 1411,039.1 1,150,107.8 0.00 12.0 point49 59 1,411,038.1 1,150,107.8 0.00 12.0 point60 60 1,411,134.6 1,150,183.1 0.00 12.0 point60 60 1,411,134.6 1,150,183.1 0.00 12.0 point60 61 1,411,134.6 1,150,183.1 0.00 12.0 point60 62 1,411,204.2 1,150,204.5 0.00 12.0 point63 63 1,411,136.0 1,149,639.1 0.00 12.0 point64 64 1,411,136.0 1,149,639.1 0.00 12.0 point64 64 1,411,136.0 1,149,639.1 0.00 12.0 point64 64 1,411,136.0 1,149,639.1 0.00 12.0 point64 64 1,411,136.1 1,150,136.2 0.00 12.0 point64 64 1,411,136.1 1,150,136.2 0.00 12.0 point64 64 1,411,136.1 1,151,922.5 0.00 12.0 point64 84 1,411,739.1 1,151,922.5 0.00 12.0 point66 85 1,411,739.1 1,151,922.5 0.00 12.0 point36 363 1,411,739.1 1,151,922.5 0.00 12.0 point36 363 1,411,739.1 1,151,922.5 0.00 12.0 point36 386 1,411,782.1 1,151,922.2 0.00 12.0 point36 386 1,411,782.1 1,151,962.2 0.00 12.0 point36 386 1,411,782.5 1,151,982.2 0.00		point2	9		0.00			
12.0	Haags EB/WB	_	6		0.00		Average	
12.0 point301 301 1,410,833.5 1,149,867.6 0.00 point323 322 1,410,888.8 1,449,887.4 0.00 point323 323 1,410,989.9 1,449,847.4 0.00 point324 322 1,410,989.9 1,499,642 0.00 point329 323 1,411,098.9 1,499,642 0.00 point320 320 1,411,033.1 1,150,017.8 0.00 point63 298 1,411,094.5 1,50,344.5 0.00 point63 691 1,411,146.6 1,150,348.1 0.00 point63 692 1,411,146.6 1,150,348.1 0.00 point64 641 1,411,324.1 1,150,479.8 0.00 point65 62 1,411,304.1 1,150,479.6 0.00 point65 62 1,411,304.1 1,150,499.8 0.00 point67 691 1,411,328.9 1,416,863.1 0.00 point68 691 1,411,328.9 1,416,863.1 0.00 point36 305 1,499,865.5 1,49,661.9 0.00 point36 305 1,411,734.1 1,151,960.2 0.00 point36 306 1,411,734.1 1,151,960.2 0.00 point36 306 1,411,734.1 1,151,962.5 0.00 point36 306 1,411,734.1 1,151,962.2 0.00 point71 71 1,411,916.2 1,152,514.5 0.00 point73 72 1,411,916.2 1,152,514.5 0.00 point36 306 1,411,784.1 1,151,922.1 0.00 point36 306 1,411,784.1 1,151,922.1 0.00 point36 306 1,411,784.1 1,151,920.2 0.00 point36 306 1,411,784.1 1,151,920.2 0.00 point36 306 1,411,784.1 1,151,920.2 0.00 point36 306 1,411,785.1 1,151,920.2 0.00 point36 306 1,411,784.1 1,151,920.2 0.00 point36 306 1,411,785.1 1,151,920.2 0.00 point36 306 1,411,784.1 1,151,920.2 0.00 point36 306 1,411,784.1 1,151,900.8 0.00 point36 306 1,411,784.1		point3	0		0.00			
Point322 322 1,410,886.8 1,149,887.4 0.00 Point323 323 1,4110,960.9 1,149,984.2 0.00 Point323 323 1,411,030.9 1,146,969.8 0.00 Point53 323 1,411,030.9 1,150,048.8 0.00 Point53 23 1,411,030.9 1,150,183.1 0.00 Point63 59 1,411,030.9 1,150,244.5 0.00 Point63 60 1,411,134.6 1,150,244.5 0.00 Point63 61 1,411,134.6 1,150,245.6 0.00 Point63 62 1,411,134.0 1,150,265.6 0.00 Point63 63 1,411,304.1 1,150,265.6 0.00 Point64 64 1,411,324.0 1,150,265.6 0.00 Point65 65 1,411,304.1 1,150,265.6 0.00 Point65 65 1,411,304.1 1,150,265.6 0.00 Point65 65 1,411,304.1 1,151,922.4 0.00 Signal 0.00 Point67 7 1,411,787.1 1,151,962.5 0.00 Point68 305 1,411,787.1 1,151,962.5 0.00 Point69 305 1,411,787.1 1,151,962.5 0.00 Point69 305 1,411,787.1 1,151,962.5 0.00 Point69 305 1,411,787.1 1,151,962.5 0.00 Point69 305 1,411,787.1 1,151,962.5 0.00 Point69 305 1,411,786.4 1,151,962.5 0.00 Point69 305 1,411,786.4 1,151,962.2 0.00 Point69 305 1,411,786.4 1,151,962.2 0.00 Point69 305 1,411,786.4 1,151,962.5 0.00 Point69 305 1,411,786.4 1,151,962.5 0.00 Point69 305 1,411,786.1 1,61,962.2 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.4 1,151,962.5 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8 0.00 Point69 305 1,411,786.1 1,50,901.8	Union NB-2	-	1		0.00		Average	
point321 321 1,410,960.9 1,149,954.2 0.00 point328 323 1,411,009.5 1,160,017.8 0.00 point329 530 1,411,009.5 1,160,163.8 0.00 point69 59 1,411,004.5 1,160,143.7 0.00 point60 60 1,411,134.6 1,150,386.1 0.00 point61 61 1,411,130.2 1,160,243.5 0.00 point62 62 1,411,304.1 1,160,243.6 0.00 point63 63 1,411,304.1 1,160,243.8 0.00 point64 64 1,411,324.0 1,160,805.0 0.00 point65 65 1,411,324.0 1,160,805.0 0.00 point63 63 1,411,324.1 1,160,205.0 0.00 point63 305 1,409,965.5 1,149,639.1 0.00 point32 324 1,411,733.1 1,151,922.4 0.00 Signal 0.00 point73 73 1,411,962.5 1,151,225.6 0.00 point73 73 1,411,962.5 1,152,255.6 0.00 point73 73 1,411,962.5 1,152,242.1 0.00 point73 73 1,411,962.5 1,152,242.1 0.00 point73 73 1,411,962.5 1,152,255.6 0.00 point73 32 1,411,733.4 1,151,922.4 0.00 Signal 0.00 point73 33 1,411,733.4 1,151,922.4 0.00 Signal 0.00 point73 73 1,411,962.5 1,152,132.4 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point73 33 1,411,734.1 1,151,952.1 0.00 point74 1,411,962.5 1,152,04.1 1,151,950.5 1.00 point75 72 1,411,962.5 1,152,04.1 1,51,950.5 1.00		point3	2		0.00		Average	
point52 322 1,411,009.5 1,150,017.8 0.00 point59 320 1,411,033.1 1,150,098.8 0.00 point69 28 1,411,034.5 1,150,143.1 0.00 point60 60 1,411,134.6 1,150,244.5 0.00 point61 61 1,411,134.6 1,150,236.1 0.00 point62 62 1,411,204.2 1,150,249.4 0.00 point63 63 1,411,304.1 1,150,805.0 0.00 point63 64 1,411,372.1 1,150,909.8 0.00 point63 65 1,409,965.5 1,149,639.1 0.00 point305 305 1,409,965.5 1,149,639.1 0.00 point305 305 1,409,965.5 1,149,639.1 0.00 point305 324 1,411,793.1 1,151,922.4 0.00 point305 325 1,411,804.2 1,151,980.1 0.00 point70 70 1,411,864.4 1,151,152.5 0.00 point70 70 1,411,865.4 1,151,142.2 0.00 point70 70 1,411,865.4 1,151,142.2 1 0.00 point70 70 1,411,865.4 1,151,142.2 1 0.00 point70 70 1,411,865.4 1,151,222.4 0.00 point70 70 1,411,865.4 1,151,922.4 0.00 point70 70 1,411,865.1 1,151,960.1 0.00 point70 71 1,411,794.1 1,151,960.1 0.00		point3	_		0.00		Average	
Point320 320 1,411,033.1 1,150,059.8 0.00 Point59 59 1,411,084.5 1,150,144.5 0.00 Point60 60 1,411,146.6 1,150,305.1 0.00 Point61 61 1,411,166.6 1,150,305.1 0.00 Point62 62 1,411,204.2 1,150,479.4 0.00 Point63 63 1,411,304.1 1,150,479.4 0.00 Point64 64 1,411,304.1 1,150,479.4 0.00 Point65 65 1,411,304.1 1,150,479.4 0.00 Point64 64 1,411,371.2 1,150,479.8 0.00 Point65 65 1,411,371.2 1,150,479.8 0.00 Point65 67 1,411,371.2 1,150,479.8 0.00 Point67 7 1,411,773.4 1,151,922.4 0.00 Point36 363 1,441,773.4 1,151,922.6 0.00 Point36 363 1,441,787.1 1,151,922.6 0.00 Point70 70 1,411,86.2 1,145,256.6 0.00 Point71 71 1,411,98.2 1,142,225.6 0.00 Point72 72 1,411,98.2 1,142,225.1 0.00 Point73 73 1,412,020.4 1,151,922.4 0.00 Point74 326 1,411,773.4 1,151,922.4 0.00 Point75 37 1,411,98.2 1,142,225.1 0.00 Point36 366 1,411,773.4 1,151,922.4 0.00 Point36 366 1,411,773.4 1,151,922.4 0.00 Point36 366 1,411,78.6 1,151,922.4 0.00 Point86 366 1,411,78.6 1,151,922.4 0.00 Point86 366 1,411,78.6 1,151,922.4 0.00 Point86 366 1,411,78.6 1,151,922.4 0.00 Point86 366 1,411,		point3	6		0.00		Average	
Point28		point3	0		0.00		Average	
Point298 298 1,411,109.2 1,150,244.5 0.00 Point60 60 1,411,134.6 1,150,365.1 0.00 Point61 61 1,411,166.6 1,150,386.1 0.00 Point62 62 1,411,204.2 1,150,705.6 0.00 Point63 63 1,411,304.1 1,150,705.6 0.00 Point64 64 1,411,304.1 1,150,903.8 0.00 Point65 65 1,411,304.1 1,150,903.8 0.00 Point65 65 1,410,305.5 1,149,661.9 0.00 Point79 306 1,409,965.5 1,149,661.9 0.00 Point79 307 1,410,238.9 1,149,661.9 0.00 Point78 384 1,411,787.1 1,151,985.1 0.00 Point78 385 1,411,787.1 1,151,985.5 0.00 Point77 71 1,411,915.2 1,152,402.1 0.00 Point77 71 1,411,915.2 1,152,255.6 0.00 Point78 386 1,411,782.5 1,152,224 0.00 300 Point79 386 1,411,782.5 1,152,224.5 0.00 Point78 386 1,411,782.5 1,152,224 0.00 Point78 386 1,411,782.5 1,152,920.4 0.00 Point78 386 1,411,782.5 1,152,920.4 0.00 Point78 386 1,411,782.5 1,152,920.4 0.00 Point78 386 1,411,782.5 1,151,990.5 0.00 Point78 386 1,411,782.5 1,152,900.5 0.00 Point78 386 1,411,782.5 1,152,900.5 0.00 Point78 386 1,411,782.5 1,152,900.6 0.00 Point78 386 1,411,782.5 1,152,900.6 0.00 Point78 382 1,411,782.5 1,152,900.6 0.00 Point78 1,511,590.5 0.00 Point88 1,511,590.5 0.00 Point88 1,511,59		point5			0.00		Average	
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point63 63 1,411,304,1 1,150,725.6 0.00 point64 64 1,411,329.0 1,150,805.0 0.00 12.0 point65 65 1,411,371.2 1,150,909.8 0.00 12.0 point305 305 1,409,965.5 1,149,661.9 0.00 12.0 point324 324 1,411,773.4 1,141,822.4 0.00 12.0 point324 324 1,411,787.1 1,141,862.5 0.00 12.0 point324 324 1,411,787.1 1,141,982.5 0.00 12.0 point323 363 1,411,804.2 1,162,325.6 0.00 12.0 point325 325 1,411,804.2 1,162,422.1 0.00 12.0 point70 70 1,411,804.2 1,162,422.1 0.00 12.0 point326 326 1,411,904.2 1,162,422.1 0.00 12.0 point326 326 1,411,778.4 1,152,422.1 0.00 12.0 point366 366		pointe			0.00		Average	
Point65		pointe			0.00		Average	
12.0 point65 65 1,411,371.2 1,150,909.8 0.00 12.0 point305 305 1,409,965.5 1,149,639.1 0.00 12.0 point324 324 1,410,238.9 1,149,661.9 0.00 12.0 point364 364 1,411,773.4 1,151,922.4 0.00 Signal 12.0 point364 364 1,411,787.1 1,151,962.5 0.00 Signal 12.0 point363 363 1,411,787.1 1,151,962.5 0.00 Signal 12.0 point70 70 1,411,866.4 1,151,982.5 0.00 Signal 12.0 point72 72 1,411,982.5 1,152,242.1 0.00 Signal 12.0 point73 72 1,411,782.5 1,152,524.5 0.00 Signal 12.0 point36 366 1,411,782.5 1,151,962.2 0.00 Signal 12.0 point36 366 1,411,782.5 1,151,962.2 0.00 Signal		pointe			0.00		Average	
12.0 point49 305 1,409,965.5 1,149,639.1 0.00 12.0 point324 324 1,410,238.9 1,149,661.9 0.00 50 12.0 point364 384 1,411,773.4 1,151,950.2 0.00 50 12.0 point364 384 1,411,787.1 1,151,962.5 0.00 50 12.0 point365 325 1,411,804.2 1,151,962.5 0.00 50 12.0 point70 70 1,411,804.2 1,151,985.1 0.00 60 12.0 point71 71 1,411,915.2 1,152,242.1 0.00 60 12.0 point72 72 1,411,982.5 1,152,422.1 0.00 60 12.0 point73 73 1,411,782.5 1,151,952.4 0.00 60 12.0 point366 366 1,411,773.4 1,151,952.2 0.00 60 12.0 point365 365 1,411,782.5 1,151,965.1 0.00 60 12.0 point36 365 1,411,782.5 1,151,965.1 0.00		pointe			0.00			
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12.0 point324 324 1,411,773.4 1,151,922.4 0.00 Signal 0.00 50 point364 364 1,411,787.1 1,151,962.5 0.00 0.00 50 point363 363 1,411,793.1 1,151,962.5 0.00 0.00 0.00 point70 70 1,411,804.2 1,151,985.1 0.00 0.00 0.00 point71 71 1,411,816.2 1,152,422.1 0.00 0.00 0.00 point72 72 1,411,982.5 1,152,422.1 0.00 0.00 0.00 24.0 point326 326 1,411,773.4 1,151,952.4 0.00 50 point366 366 1,411,782.5 1,151,962.2 0.00 50 point365 365 1,411,786.4 1,151,962.1 0.00 50 point366 366 1,411,786.7 1,151,962.1 0.00 50 point366 366 1,411,786.7 1,151,962.1 0.00 50 point366 366 1,411,786.7 1,151,960.5 -1.00 50		point4			0.00			
point364 364 1,411,787.1 1,151,950.2 0.00 point325 363 1,411,793.1 1,151,962.5 0.00 point326 325 1,411,804.2 1,151,985.1 0.00 point70 70 1,411,856.4 1,152,255.6 0.00 point72 72 1,411,982.5 1,152,255.6 0.00 point73 72 1,411,982.5 1,152,514.5 0.00 point326 326 1,411,773.4 1,151,922.4 0.00 50 point366 366 1,411,782.5 1,151,952.2 0.00 50 point365 366 1,411,786.4 1,151,965.1 0.00 50 point366 366 1,411,786.5 1,151,965.1 0.00 50 point366 366 1,411,786.4 1,151,965.1 0.00 50 point332 332 1,411,786.7 1,151,990.5 -1.00 50	Union NB-5		4		Signal	20	Average	
point325 363 1,411,793.1 1,151,962.5 0.00 point70 70 1,411,804.2 1,151,985.1 0.00 point71 71 1,411,915.2 1,152,111.9 0.00 point72 72 1,411,915.2 1,152,422.1 0.00 point73 73 1,412,020.4 1,152,514.5 0.00 50 point326 326 1,411,773.4 1,151,922.4 0.00 50 point365 366 1,411,786.5 1,151,962.2 0.00 50 point365 365 1,411,786.4 1,151,962.2 0.00 50 point365 366 1,411,786.4 1,151,960.5 -1.00 50 point365 365 1,411,786.4 1,151,990.5 -1.00 50		point3			0.00		Average	
point70 70 1,411,804.2 1,151,985.1 0.00 point70 70 1,411,856.4 1,152,111.9 0.00 point71 71 1,411,915.2 1,152,255.6 0.00 point72 72 1,411,915.2 1,152,514.5 0.00 90 point32 326 1,411,773.4 1,151,952.4 0.00 50 point36 366 1,411,786.4 1,151,952.2 0.00 50 point36 365 1,411,786.4 1,151,965.1 0.00 50 point38 332 1,411,786.4 1,151,990.5 -1.00 point46 16 1,411,825.5 1,152,074.1 -5.00		point3	3		0.00		Average	
point70 70 1,411,856.4 1,152,111.9 0.00 point71 71 1,411,915.2 1,152,255.6 0.00 point72 72 1,411,982.5 1,152,422.1 0.00 point73 73 1,412,020.4 1,152,514.5 0.00 point36 326 1,411,773.4 1,151,922.4 0.00 50 point365 366 1,411,782.5 1,151,952.2 0.00 50 point365 365 1,411,786.4 1,151,965.1 0.00 50 point365 365 1,411,786.4 1,151,965.1 0.00 50 point367 365 1,411,786.4 1,151,965.1 0.00 50 point367 1,411,786.4 1,151,990.5 -1.00 50 50		point3	10		0.00		Average	
point72 71 1,411,915.2 1,152,255.6 0.00 point72 72 1,411,982.5 1,152,422.1 0.00 point73 73 1,412,020.4 1,152,514.5 0.00 point326 326 1,411,773.4 1,151,952.4 0.00 Signal 0.00 point366 366 1,411,786.4 1,151,952.2 0.00 50 point365 365 1,411,786.4 1,151,965.1 0.00 60 point332 332 1,411,794.1 1,151,990.5 -1.00 -1.00 point16 16 1,411,825.5 1,152,074.1 -5.00 -5.00		point7			0.00		Average	
point72 72 1,411,982.5 1,152,422.1 0.00 Point 24.0 point326 326 1,412,020.4 1,151,952.4 0.00 Signal 0.00 50 point366 366 1,411,773.4 1,151,952.2 0.00 50 50 point365 365 1,411,786.4 1,151,965.1 0.00 50 50 point332 332 1,411,784.1 1,151,990.5 -1.00 50 50 point16 16 1,411,825.5 1,152,074.1 -5.00 50 6		point7			0.00		Average	
24.0 point326 326 1,412,020.4 1,152,514.5 0.00 Signal 0.00 50 point366 366 1,411,773.4 1,151,952.4 0.00 Signal 0.00 50 point366 366 1,411,786.4 1,151,965.1 0.00 0.00 0.00 0.00 point332 332 1,411,786.4 1,151,990.5 -1.00 0.00 0.00 0.00 point16 16 1,411,825.5 1,152,074.1 -5.00 0.00 0.00 0.00 0.00 0.00		point7			0.00		Average	
24.0 point326 326 1,411,773.4 1,151,922.4 0.00 Signal 0.00 50 point366 366 1,411,782.5 1,151,952.2 0.00 point365 365 1,411,786.4 1,151,965.1 0.00 point362 332 1,411,784.1 1,151,990.5 -1.00 point16 16 1.411.825.5 1,152,074.1 -5.00		point7			0.00			
5 366 1,411,782.5 1,151,952.2 0.00 5 365 1,411,786.4 1,151,965.1 0.00 2 332 1,411,794.1 1,151,990.5 -1.00 16 1,411,825.5 1,152,074.1 -5.00	IL N Ramp EB		0		Signal	20	Average	
5 365 1,411,786.4 1,151,965.1 0.00 2 332 1,411,794.1 1,151,990.5 -1.00 16 1,411,825.5 1,152,074.1 -5.00		point3	0		0.00		Average	
2 332 1,411,794.1 1,151,990.5 -1.00 16 1,411,825.5 1,152.074.1 -5.00		point3	5		0.00		Average	
16 1.411.825.5 1.152.074.1 -5.00		point3	2		-1.00		Average	
		point1		.5 1,152,074.1	-5.00		Average	
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PIN 4	
DWAYS	
INPUT: ROA	

	point18				-15.00		Average	
	-					_	101	_
	point19	19 19	9 1,411,822.8	1,152,655.0	-20.00		Average	
	point20	20 20	1,411,780.2	1,152,835.1	-20.00		Average	
	point21	21 21	1,411,684.9	1,153,037.0	-20.00		Average	
	point22	22 22	1,411,618.1	1,153,138.5	-20.00		Average	
	point23	23 23	3 1,411,546.9	1,153,221.9	-20.00			
Pitkin SB-1	12.0 point32	329 329	1,411,565.8	1,152,047.1	0.00 Onramp 10.00	100	Average	
	point37	370 370	1,411,565.1	1,152,039.8	0.00		Average	
	point17:	175 175	1,411,547.8	1,151,872.0	0.00		Average	
	point17	176 176	1,411,538.0	1,151,795.8	0.00		Average	
	point17	177 177	1,411,416.5	1,151,434.2	0.00			
Union Spur SB	10.0 point337	337 337	1,410,863.6	1,149,852.1	0.00 Onramp 10.00	100	Average	
	point33	338 338	1,410,890.5	1,149,803.5	0.00		Average	
	point33	339 339	1,410,891.9	1,149,754.4	0.00		Average	
	point340	340 340	1,410,877.8	1,149,708.6	0.00		Average	
	point341	341 341	1,410,794.2	1,149,494.0	0.00		Average	
	point34	342 342	1,410,731.9	1,149,333.8	0.00			
Charlotte WB-2	12.0 point350	350 350	1,411,811.6	1,151,955.1	0.00 Signal 0.00	09	Average	
	point351	351 351	1,411,793.1	1,151,962.5	0.00		Average	
	point35,	352 352	1,411,786.4	1,151,965.1	0.00		Average	
	point35	353 353	3 1,411,763.8	1,151,974.1	0.00		Average	
	point37	371 371	1,411,665.4	1,152,013.0	0.00		Average	
	point35	354 354	1,411,567.0	1,152,052.1	0.00		Average	
	point35	355 355	1,411,518.2	1,152,071.2	0.00			
Charlotte EB-1	12.0 point356	356 356	1,411,513.4	1,152,061.1	0.00		Average	
	point357	357 357	1,411,565.1	1,152,039.8	0.00		Average	
	point358	358 358	1,411,665.1	1,151,999.4	0.00		Average	
	point37;	372 372	1,411,730.1	1,151,973.2	0.00			
Union NB-1	12.0 point37	374 374	1,410,156.1	1,149,710.5	0.00 Signal 0.00	09	Average	
	point39	390 390	1,410,189.5	1,149,721.2	0.00		Average	
	point38	389 389	1,410,210.6	1,149,728.0	0.00		Average	
	point30	309	1,410,276.2	1,149,749.1	0.00		Average	
	point5		5 1,410,491.1	1,149,770.4	0.00		Average	
	point6		6 1,410,619.0	1,149,783.9	0.00		Average	
	point31	318 318	1,410,707.9	1,149,798.0	0.00		Average	
	point31	317 317	1,410,768.6	1,149,822.6	0.00		Average	
	point7		7 1,410,833.5	1,149,857.6	0.00			
IL Ramp WB-2	24.0 point37	375 375	1,410,224.5	1,149,770.8	0.00 Signal 0.00	09	Average	

	ROADWAYS	
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		point387	387	1 410 177 0	1 149 753 9	0 0			Average	
		point388	200	1 410 157 1		00.0			Average	
		point306	300	1 410 113 5		00.0			Average	
		politicoo	5	1,410,113.0		2 6			Avelage	
		point43	43	1,410,025.2		0.00			Average	
		point233	233	1,409,659.6	1,149,689.2	0.00			Average	
		point44	44	1,409,478.1	1,149,672.0	0.00			Average	
		point45	45	1,409,359.8	1,149,672.0	0.00				
Union SB-3	12.0	point376	376	1,411,380.6	1,150,983.2	0.00 Signal	0.00	40	Average	
		point393	393	1,411,281.4	1,150,735.0	0.00			Average	
		point35	35	1,411,194.4	1,150,517.1	0.00			Average	
		point36	36	1,411,072.6	1,150,213.2	0.00			Average	
		point37	37	1,411,021.8	1,150,092.2	0.00			Average	
		point38	38	1,410,962.4	1,149,983.6	0.00			Average	
		point39	39	1,410,874.0	1,149,898.1	0.00			Average	
		point40	40	1,410,769.0	1,149,844.1	0.00			Average	
		point336	336	1,410,694.6	1,149,820.2	0.00			Average	
		point41	41	1,410,605.4	1,149,806.6	0.00			Average	
		point42	42	1,410,459.9	1,149,796.8	0.00			Average	
		point319	319	1,410,321.6	1,149,783.2	0.00			Average	
		point307	307	1,410,224.5	1,149,770.8	0.00				
Union SB-2	12.0	point377	377	1,411,543.8	1,151,396.2	0.00 Signal	0.00	20	Average	
		point346	346	1,411,528.4	1,151,366.6	0.00			Average	
		point347	347	1,411,518.8	1,151,348.2	0.00			Average	
		point33	33	1,411,507.2	1,151,326.0	0.00			Average	
		point344	344	1,411,454.4	1,151,189.4	0.00			Average	
		point343	343	1,411,427.8	1,151,097.0	0.00			Average	
		point34	34	1,411,380.6	1,150,983.2	0.00				
Union SB-1	12.0	point379	379	1,411,772.9	1,151,997.4	-1.00 Signal	0.00	20	Average	
		point367	367	1,411,763.8	1,151,974.1	0.00			Average	
		point368	368	1,411,758.8	1,151,961.8	0.00			Average	
		point349	349	1,411,747.6	1,151,934.2	0.00			Average	
		point32	32	1,411,659.5	1,151,717.8	0.00			Average	
		point335	335	1,411,637.8	1,151,645.2	0.00				
Pitkin NB-2	12.0	point380	380	1,411,620.4	1,152,655.8	0.00 Signal	0.00	20	Average	
		point258	258	1,411,605.2	1,152,696.0	0.00			Average	
		point170	170	1,411,601.2	1,152,703.5	0.00			Average	
		point257	257	1,411,575.9	1,152,717.5	0.00			Average	
		point169	169	1,411,535.2	1,152,739.9	0.00				
Charlotte EB-2	12.0	point381	381	1,411,730.1	1,151,973.2	0.00 Signal	0.00	09	Average	
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INPUT: ROADWAYS					PIN 4940.T7	0.T7		
		point359 35	359 1,411,758.8 1,151,961.8	1,151,961.8	0.00		Average	
		point360 36	360 1,411,782.5 1,151,952.2	1,151,952.2	0.00		Average	
		point361 361	1 1,411,787.1 1,151,950.2	1,151,950.2	0.00		Average	
		point373 37	373 1,411,810.4 1,151,940.9	1,151,940.9	0.00		Average	
		point362 36	362 1,412,057.9 1,151,840.6	1,151,840.6	0.00			
Broad WB-2	24.0	24.0 point391 39	391 1,411,257.0 1,151,007.1	1,151,007.1	0.00		Average	
		point126 12	126 1,411,136.5 1,151,062.0	1,151,062.0	0.00		Average	
		point127 12	127 1,411,037.6 1,151,083.1	1,151,083.1	0.00		Average	
		point128 12	128 1,410,908.0 1,151,096.0	1,151,096.0	0.00			
Union SB-1-2	24.0	point392 39	392 1,411,637.8 1,151,645.2	1,151,645.2	0.00		Average	
		point334 33	334 1,411,584.2 1,151,496.9	1,151,496.9	0.00		Average	

0.00

333 1,411,543.8 1,151,396.2

point333

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INPUT: TRAFFIC FOR LAeq1h Volumes													
PROJECT/CONTRACT:	PIN 4940.T7												
RUN:	2035 Build Inner Loop Noise	er Loop	Noise										
Roadway	Points												
Name	Name	No.	Segment										
			Autos	, —	MTrucks		HTrucks	(S	Buses		Motorcycles	cycles	"
					>	S	>	တ	>	S	>	တ	
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	ح
IL Ramp EB	point1	1	445	40	4	40		4	40	2	40	2	40
	point2	2	445	40	4	40		4	40	2	40	7	40
	point3	3	445	40	4	40		4	40	2 40	0	2	40
	point4	4	445	30	4	30		1	30	2 30	0	2	30
	point308	308											
IL N Ramp WB	point24	24	448	40	4	40		0	0	11	40	0	0
	point25	25	448	40	4	40		0	0	11	40	0	0
	point26	26	448	40	4	40		0	0	11	40	0	0
	point27	27	448	40	4	40		0	0	11 40	0	0	0
	point28	28	448	40	4	40		0	0	11 40	0	0	0
	point29	29	448	40	4	40		0	0	11 40	0	0	0
	point30	30	448	40	4	40		0	0	11 40	0	0	0
	point31	31	448	30	4	30		0	0	11 30	0	0	0
	point331	331	448	30	4	30		0	0 0	11 30	0	0	0
	point327	327	448	25	4	25		0	0	11 2	25	0	0
	point378	378											
Union Spur NB	point55	22	412	30	3	30		6	30	0	0	9	30
	point304	304	412	30	3	30		6	30	0	0	9	30
	point303	303	412	30	3	30		6	30	0	0	9	30
	point56	56	412	30	3	30		6	30	0	0	9	30
	point302	302	412	25	3	25		9 2	25	0	0	9	25
	point57	22	412	25	3	25		9 2	25	0	0	9	25
	point58	58											

INPUT: TRAFFIC FOR LAeq1h Volumes						PIN	PIN 4940.T7		
University NB-1	point75	75	202	30	9	30	0	0	
		1	I	00	(00	•	•	

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University NB-1	point75	22	202	30	9	30	0	0	0	0	3	30
	point76	92	202	30	9	30	0	0	0	0	3	30
	point77	22	202	25	9	25	0	0	0	0	3	25
	point78	82										
University SB-1	point86	98	789	40	17	40	9	40	23	40	0	0
	point87	87	789	40	17	40	9	40	23	40	0	0
	point88	88	789	35	17	32	9	35	23	32	0	0
	point89	89	789	25	17	25	9	22	23	22	0	0
	point90	06	789	15	17	15	9	15	23	15	0	0
	point91	91	789	10	17	10	9	10	23	10	0	0
	point92	92										
Main EB-1	point97	26	269	25	9	25	0	0	7	25	3	25
	point260	260										
Main WB-1	point101	101	1085	25	0	0	8	25	16	25	0	0
	point102	102										
Richmond WB	point106	106	80	15	0	0	2	15	0	0	0	0
	point107	107										
Richmond EB	point108	108	10	15	0	0	0	0	0	0	0	0
	point109	109										
Charlotte WB-1	point110	110	91	25	0	0	0	0	0	0	0	0
	point111	111										
East WB	point114	114	217	20	9	20	0	0	0	0	9	20
	point115	115										
East EB	point119	119	287	25	0	0	0	0	3	25	9	25
	point246	246	299	20	0	0	0	0	3	20	9	20
	point120	120	299	20	0	0	0	0	က	20	9	20
	point250	250	299	20	0	0	0	0	က	20	9	20
	point121	121	295	20	0	0	0	0	3	20	9	20
	point254	254										
Broad EB-1	point129	129	435	30	0	0	0	0	9	30	0	0
	point130	130	435	30	0	0	0	0	9	30	0	0
	point131	131	435	30	0	0	0	0	9	30	0	0
	point132	132	435	30	0	0	0	0	9	30	0	0
	point315	315	445	15	0	0	0	0	9	15	0	0
	point133	133										
Savannah NB	point135	135	10	25	0	0	0	0	0	0	0	0
									,			

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	point136	136	10	52	0	0	0	0	0	0	0	>
	point137	137										
Savannah SB	point138	138	10	25	0	0	0	0	0	0	0	0
	point139	139	10	22	0	0	0	0	0	0	0	0
	point140	140										
Broadway NB	point141	141	10	15	0	0	0	0	0	0	0	0
	point142	142										
Broadway SB	point143	143	10	15	0	0	0	0	0	0	0	0
	point144	144										
Clinton Ramp	point145	145	618	45	6	45	4	45	1	45	2	45
	point146	146										
Clinton NB 1	point147	147	1176	45	16	45	7	45	21	45	2	45
	point148	148										
Clinton NB 2	point149	149	1794	45	25	45	1	45	32	45	7	45
	point150	150	1794	45	25	45	7	45	32	45	7	45
	point151	151										
Chestnut Ramp	point152	152	1246	30	11	30	0	0	28	30	0	0
	point311	311	1246	30	7	30	0	0	28	30	0	0
	point153	153	1246	30	7	30	0	0	28	30	0	0
	point154	154	1246	25	7	25	0	0	28	25	0	0
	point312	312	1246	25	7	25	0	0	28	25	0	0
	point155	155	1246	30	7	30	0	0	28	30	0	0
	point310	310	1246	40	7	40	0	0	28	40	0	0
	point156	156										
Pitkin NB-1	point328	328	187	20	0	0	0	0	0	0	0	0
	point369	369	187	20	0	0	0	0	0	0	0	0
	point330	330	187	20	0	0	0	0	0	0	0	0
	point174	174	187	20	0	0	0	0	0	0	0	0
	point173	173	187	20	0	0	0	0	0	0	0	0
	point172	172	187	20	0	0	0	0	0	0	0	0
	point171	171										
Monroe-Chestnut NB-1	point198	198	707	35	0	0	0	0	0	0	8	35
	point199	199	707	30	0	0	0	0	0	0	80	30
	point200	200										
Chestnut-Monroe SB-1	point208	208	260	30	2	30	2	30	4	30	0	0
	point313	313	260	30	2	30	2	30	4	30	0	0

INPUT: TRAFFIC FOR LAeq1h Volumes						₹	PIN 4940.T7	_		
	point209	209	260	30	2	30	2	30	4	30
	point314	314	260	25	2	22	2	25	4	25
	point210	210								
W University Ave EB	point229	229	266	30	0	0	0	0	0	0
	point230	230								
W University Ave WB	point231	231	229	30	0	0	0	0	0	0
	point232	232								
Union NB-3	point275	2	944	30	∞	30	_	30	2	30
	point66	99	944	25	∞	22	_	25	2	25
	point67	29								
Union NB-4	point276	276	944	25	8	25	_	25	2	25
	point256	256	853	30	7	30	_	30	2	30
	point255	255	853	30	7	30	_	30	2	30
	point68	89	853	30	7	30	_	30	2	30
	point345	345	853	22	7	22	_	25	2	25
	point69	69								
Union NB-6	point277	277	342	30	4	30	0	0	0	0
	point74	74								
University NB-2	point278	278	202	30	9	30	0	0	0	0
	point265	265	795	30	41	30	7	30	3	30
	point266	266	795	30	41	30	7	30	3	30
	point79	79	795	40	41	40	7	40	3	40
	point80	80	795	40	41	40	7	40	က	40
	point81	81	262	40	41	40	2	40	3	40
	point82	82	795	40	41	40	7	40	က	40
	point83	83	262	40	41	40	7	40	3	40
	point84	84	795	40	41	40	7	40	က	40
	point85	85								
University SB-2	point279	279	789	30	17	30	9	30	23	30
	point268	268	555	30	7	30	0	0	0	0
	point267	267	222	30	7	30	0	0	0	0
	point93	93	222	30	7	30	0	0	0	0
	point94	94	222	25	7	25	0	0	0	0
	point95	66	222	25	7	25	0	0	0	0

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Main EB-2

Volumes	
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NPUT: TRAFFIC FOR LAeq1h Volumes	88					A N	PIN 4940.T7					
	point98	86	747	25	17	25	0	0	21	25	∞	25
	point99	66										
Main EB-3	point281	281	747	30	17	30	0	0	21	30	80	30
	point262	262	926	30	22	30	0	0	27	30	7	30
	point261	261	926	30	22	30	0	0	27	30	7	30
	point226	226	926	30	22	30	0	0	27	30	7	30
	point100	100										
Main WB-2	point282	282	1085	25	0	0	8	25	16	25	0	0
	point263	263	783	25	0	0	9	25	1	25	0	0
	point264	264	783	25	0	0	9	25	11	25	0	0
	point103	103	783	25	0	0	9	25	1	25	0	0
	point225	225	783	25	0	0	9	25	11	25	0	0
	point104	104	457	30	0	0	3	30	7	30	0	0
	point259	259										
Main WB-3	point283	283	457	30	0	0	3	30	7	30	0	0
	point105	105										
East WB-2	point284	284	217	20	9	20	0	0	0	0	9	20
	point253	253	438	20	2	20	0	0	0	0	2	20
	point116	116	438	20	2	20	0	0	0	0	2	20
	point249	249	438	20	2	20	0	0	0	0	2	20
	point117	117										
East WB-2-2	point285	285	438	20	2	20	0	0	0	0	2	20
	point245	245	443	20	2	20	0	0	0	0	2	20
	point118	118										
East EB-2	point286	286	295	20	0	0	0	0	3	20	9	20
	point348	348	929	20	0	0	0	0	2	20	10	20
	point122	122	929	20	0	0	0	0	2	20	10	20
	point123	123										
Broad WB	point287	287	95	25	7	25	0	0	26	25	0	0
	point244	244										
Broad EB-2	point288	288	445	15	0	0	0	0	9	15	0	0
	point243	243	445	15	0	0	0	0	9	15	0	0
	point227	227	445	15	0	0	0	0	9	15	0	0
	point134	134										
Pitkin SB-2	point289	289	30	20	0	0	0	0	0	0	0	0
	point248	248	20	20	0	0	0	0	0	0	0	0
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point178 178	20	20	0	0	0	0	0	0	0	0
point179 179										
point292 292	211	30	21 30	0	4	30	16	30	0	0
point201 201	211	35	21 35	2	4	35	16	35	0	0
point202 202	211	25	21 25	2	4	25	16	25	0	0
point203 203										
point294 294	211	30	21 30	0	4	30	16	30	0	0
point382 382	425	30	15 30	0	က	30	12	30	0	0
point383 383	425	30	15 30	0	က	30	12	30	0	0
point237 237	425	30	15 30	0	က	30	12	30	0	0
point205 205	425	30	15 30	0	က	30	12	30	0	0
point206 206	425	30	15 30	0	က	30	12	30	0	0
point207 207										
point296 296	260	30	2 30	0	2	30	4	30	0	0
point385 385	638	30	2 30	0	2	30	4	30	0	0
point384 384	638	30	2 30	0	7	30	4	30	0	0
point235 235	638	35	2 35	2	2	35	4	35	0	0
point213 213	638	30	2 30	0	2	30	4	30	0	0
point214 214										
point297 297	780	30	5 30	0	2	30	2	30	10	30
point215 215	780	35	5 35	2	2	35	2	35	10	35
point216 216										
point299 299	36	10	0	0	0	0	0	0	0	0
point300 300										
point301 301	753	30	7 30	0	_	30	4	30	က	30
point322 322	753	30	7 30	0	_	30	4	30	က	30
point321 321	753	30	7 30	0	_	30	4	30	က	30
point323 323	753	30	7 30	0	_	30	4	30	က	30
point320 320	753	30	7 30	0	_	30	4	30	က	30
point59 59	753	30	7 30	0	_	30	4	30	က	30
point298 298	753	30	7 30	0	_	30	4	30	က	30
nt60 60	753	30	7 30	0	_	30	4	30	က	30
point61 61	753	30	7 30	0	_	30	4	30	က	30
point62 62	753	30	7 3	0	_	30	4	30	က	30
point63 63	723	30	9	0	_	30	4	30	က	30
	753	30				30	30 1	30 1 30	30 1 30 4	30 1 30 4 30 30 1 30 4 30

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INPUT: TRAFFIC FOR LAeg1h Volumes						<u></u>	PIN 4940.T7	7				
	point64	64	723	22	9	25	_	25	4	25	3	25
	point65	92										
Old Howell	point305	305	10	20	0	0	0	0	0	0	0	
	point49	49										
Union NB-5	point324	324	474	30	9	30	0	0	0	0		30
	point364	364	474	30	9	30	0	0	0	0		30
	point363	363	474	30	9	30	0	0	0	0	3	30
	point325	325	474	30	9	30	0	0	0	0		30
	point70	20	474	30	9	30	0	0	0	0		30
	point71	7.1	474	30	9	30	0	0	0	0	3	30
	point72	72	474	25	9	25	0	0	0	0		25
	point73	73										
IL N Ramp EB	point326	326	424	30	4	30	_	30	2	30		30
	point366	366	424	30	4	30	_	30	2	30		
	point365	365	424	30	4	30	_	30	2	30	2	30
	point332	332	424	30	4	30	_	30	2	30		30
	point16	16	424	40	4	40	_	40	2	40		40
	point17	17	424	40	4	40	_	40	2	40		40
	point18	18	424	40	4	40	_	40	2	40		40
	point19	19	424	40	4	40	_	40	2	40		40
	point20	20	424	40	4	40	_	40	2	40		40
	point21	21	424	40	4	40	_	40	2	40		40
	point22	22	424	40	4	40	_	40	2	40	2	40
	point23	23										
Pitkin SB-1	point329	329	30	20	0	0	0	0	0	0	0	
	point370	370	30	20	0	0	0	0	0	0	0	
	point175	175	30	20	0	0	0	0	0	0	0	
	point176	176	30	15	0	0	0	0	0	0	0	
	point177	177										
Union Spur SB	point337	337	152	25	_	25	3	25	0	0	2	25
	point338	338	152	25	_	25	3	25	0	0		25
	point339	339	152	30	-	30	3	30	0	0		30
	point340	340	152	30	_	30	3	30	0	0	2	30
	point341	341	152	22	-	25	3	25	0	0	2	25
	point342	342										
Charlotte WB-2	point350	320	91	30	0	0	0	0	0	0	0	

NPUT: TRAFFIC FOR LAeq1h Volumes	

INPUT: TRAFFIC FOR LAeq1h Volumes						M N	4940.T	_				
	point351	351	86	30	0	0	0	0	0	0	0	0
	point352	352	86	30	0	0	0	0	0	0	0	0
	point353	353	98	30	0	0	0	0	0	0	0	0
	point371	371	86	30	0	0	0	0	0	0	0	0
	point354	354	98	30	0	0	0	0	0	0	0	0
	point355	355										
Charlotte EB-1	point356	356	212	30	0	0	0	0	0	0	0	0
	point357	357	212	30	0	0	0	0	0	0	0	0
	point358	358	212	25	0	0	0	0	0	0	0	0
	point372	372										
Union NB-1	point374	374	445	30	4	30	_	30	2	30	2	30
	point390	390	342	30	က	30	0	0	2	30	2	30
	point389	389	342	30	က	30	0	0	2	30	7	30
	point309	309	342	30	က	30	0	0	2	30	2	30
	point5	2	342	30	3	30	0	0	2	30	7	30
	point6	9	342	30	3	30	0	0	2	30	7	30
	point318	318	342	30	3	30	0	0	2	30	7	30
	point317	317	342	25	3	22	0	0	2	25	7	25
	point7	7										
IL Ramp WB-2	point375	375	999	30	9	30	0	0	14	30	0	0
	point387	387	873	30	8	30	0	0	22	30	0	0
	point388	388	873	30	80	30	0	0	22	30	0	0
	point306	306	873	30	∞	30	0	0	22	30	0	0
	point43	43	873	40	8	40	0	0	22	40	0	0
	point233	233	873	40	80	40	0	0	22	40	0	0
	point44	44	2115	40	21	40	0	0	54	40	0	0
	point45	45										
Union SB-3	point376	376	649	30	9	30	0	0	16	30	0	0
	point393	393	208	30	7	30	0	0	18	30	0	0
	point35	35	208	30	7	30	0	0	18	30	0	0
	point36	36	208	30	7	30	0	0	18	30	0	0
	point37	37	208	30	7	30	0	0	18	30	0	0
	point38	38	208	25	7	22	0	0	18	25	0	0
	point39	39	999	30	9	30	0	0	14	30	0	0
	point40	40	999	30	9	30	0	0	14	30	0	0
	point336	336	266	30	9	30	0	0	14	30	0	0

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	point41	41	999	30	9	30	0	0	14	30	0	0
	point42	42	266	25	9	25	0	0	14	25	0	0
	point319	319	266	22	9	25	0	0	14	25	0	0
	point307	307										
Union SB-2	point377	377	630	30	9	30	0	0	16	30	0	0
	point346	346	551	30	2	30	0	0	14	30	0	0
	point347	347	551	30	2	30	0	0	14	30	0	0
	point33	33	551	30	2	30	0	0	14	30	0	0
	point344	344	551	30	2	30	0	0	14	30	0	0
	point343	343	551	25	2	25	0	0	14	25	0	0
	point34	34										
Union SB-1	point379	379	448	30	4	30	0	0	1	30	0	0
	point367	367	630	30	9	30	0	0	16	30	0	0
	point368	368	630	30	9	30	0	0	16	30	0	0
	point349	349	630	30	9	30	0	0	16	30	0	0
	point32	32	630	30	9	30	0	0	16	30	0	0
	point335	335										
Pitkin NB-2	point380	380	187	20	0	0	0	0	0	0	0	0
	point258	258	187	20	0	0	0	0	0	0	0	0
	point170	170	187	20	0	0	0	0	0	0	0	0
	point257	257	187	20	0	0	0	0	0	0	0	0
	point169	169										
Charlotte EB-2	point381	381	212	30	0	0	0	0	0	0	0	0
	point359	329	87	30	0	0	0	0	0	0	0	0
	point360	360	87	30	0	0	0	0	0	0	0	0
	point361	361	87	30	0	0	0	0	0	0	0	0
	point373	373	87	30	0	0	0	0	0	0	0	0
	point362	362										
Broad WB-2	point391	391	66	30	7	30	0	0	28	30	0	0
	point126	126	66	30	7	30	0	0	28	30	0	0
	point127	127	66	30	7	30	0	0	28	30	0	0
	point128	128										
Union SB-1-2	point392	392	630	30	9	30	0	0	16	30	0	0
	point334	334	630	25	9	25	0	0	16	25	0	0
	point333	333										

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Watts						15 November 2013	ber 2013				
ЛКК						TNM 2.5					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	PIN 49	PIN 4940.T7									
RUN:	2035 E	2035 Build Inne	nner Loop Noise	ise							
Receiver											
Name	Ö	#DNs	#DUs Coordinates (ground)	(ground)		Height	Input Sour	Input Sound Levels and Criteria	and Criteri	. W	Active
			×	Z		above	Existing	Impact Criteria	iteria	N R	ء.
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.
			ft	ft		ft	dBA	dBA	dВ	dВ	
Receiver A	-	_	1,409,838.0	1,149,594.0	1.00	4.92	65.30	99	10.0	8.0	>
Receiver B	12		1,410,833.0	1,149,476.0	00.00	4.92	65.70	99	10.0	8.0	>
Receiver C	13		1,410,370.0	1,149,874.0	1.00	4.92	06.09	99	10.0	8.0	>
Receiver D	14		1,411,136.0	1,150,240.0	1.00	4.92	65.20	99	10.0	8.0	>
Receiver E	15		1,410,966.0	1,150,771.0	0.00	4.92	56.20	99	10.0	8.0	>
Receiver F	16		1,411,497.0	1,151,129.0	1.00	4.92	64.40	99	10.0	8.0	>
Receiver G	17		1,411,904.0	1,152,155.0	0.00	4.92	64.10	99	10.0	8.0	>
Receiver H	18		1,411,615.0	1,152,922.0	0.00	4.92	62.80	99	10.0	8.0	>
Receiver I	19		1,411,816.0	1,153,208.0	00.00	4.92	62.90	99	10.0	8.0	>
Test Receiver	22		1,411,985.0	1,152,353.0	0.00	4.92	00.00	99	10.0	8.0	>

15 November 2013

NPUT: BARRIERS	

Watts				15 Nov	15 November 2013	013											
ЛКК				TNM 2.	rύ												
INDIIT: BARRIERS																	
PROJECT/CONTRACT:	PIN 4940.T7																
RUN:	2035 Build Inner Loop Noise	ner Loop	Noise														
Barrier								Points									
Name	Type Height		If Wall	If Berm	_		Add'tnl	Name	S S	Coordinates (bottom)	(bottom)		Height	Segment	ţ		
	Min	Max	\$ ber	\$ per	Top	Run:Rise	\$ ber		×		>	Z	at	Seg Ht Perturbs	Pertu	uO sq.	Important
			Di	Onit	Width		Unit		-				Point	Incre- #Up #Dn	# dn#	Dn Struct'	Struct? Reflec-
	4	4	Area 6/02 #	Vol.	4	4	Length		4		4	4	4	ment			tions?
	=	: :	\$))	=	1	- 11		= -		=	=	<u>.</u>	≐	1	-	
Barrier2	W 0.00	66.66	0.00	0			0.00		-	1,411,532.1	_				0	0	
								point2	7	1,411,620.0			0.00	0.00	0	0	
								point3	3	1,411,653.1	1,152,926.9	00.0	0.00	0.00	0	0	
								point4	4	1,411,707.6	1,152,821.8	.8	0.00	0.00	0	0	
								point5	2	1,411,718.1	1,152,793.8	00.00	0.00				
Barrier3	W 0.00	66.66 0	00.00	0			0.00	point6	9	1,411,740.9	1,153,118.5	0.00	4.00	0.00	0	0	
								point36	36	1,411,688.8	1,153,173.9	00.0	4.00	0.00	0	0	
								point7	7	1,411,639.0	1,153,217.2	2 0.00	4.00	0.00	0	0	
								point8	8	1,411,588.0	1,153,252.5	5 0.00	4.00	0.00	0	0	
								point9	6	1,411,498.6	1,153,300.6	00.0	4.00	0.00	0	0	
								point10	10	1,411,476.1	1,153,311.1	.1 0.00	4.00				
Barrier4	W 0.00	66.66 0	00.00	0			0.00	point11	7	1,411,812.5	1,153,117.4	4 0.00	0.00	0.00	0	0	
								point12	12	1,411,705.1	1,153,257.0	0 0.00	0.00	0.00	0	0	
								point13	13	1,411,633.0	1,153,317.1	.1 0.00	00.00	0.00	0	0	
								point14	14	1,411,536.1	1,153,375.6	00.0	0.00				
Apartment Bldg	W 0.00	66.66 0	00.00	0			0.00	point15	15	1,410,849.0	1,149,404.0	0 0.00	20.00	00.0	0	0	
								point16	16	1,410,812.0	1,149,419.0	00.00	20.00	0.00	0	0	
								point17	17	1,410,776.0	1,149,325.0	00.0	20.00	0.00	0	0	
								point18	18	1,410,809.0	1,149,302.0	00.00	20.00	0.00	0	0	
								point19	19	1,410,849.0	1,149,402.5	5 0.00	20.00				
Low Building	W 0.00	66.66 0	00.00	0			0.00	point20	20	1,410,882.9	1,149,390.1	0.00	12.00	0.00	0	0	
								point21	21	1,410,849.9	1,149,403.1	0.00	12.00	0.00	0	0	
								point22	22	1,410,809.8	1,149,302.0	00.0	12.00	00.0	0	0	
								point23		1,410,836.4				0.00	0	0	
								point24	24	1,410,881.4	1,149,389.1	0.00	12.00				

Watts					15 November 2013	
ЛКК					TNM 2.5	
INPUT: BUILDING ROWS						
PROJECT/CONTRACT:	PIN 4940.T7					
RUN:	2035 Build	2035 Build Inner Loop Noise	loise			
Building Row			Points			
Name	Average	Building	No.	Coordinates (ground)	ground)	
	Height	Percent		×	Z	
	Ħ	%		ť	ft ft	
Monroe Bldgs	30.00	09	3	1,410,839.4	1,149,284.6	0.00
			4	1,411,110.6	4 1,411,110.6 1,149,080.5	0.00

PIN 4940.T7

INPUT: BUILDING ROWS

APPENDIX M Smart Growth Screening Tool

PIN 4940.T7

Prepared By: City of Rochester

Smart Growth Screening Tool (STEP 1)

NYSDOT & Local Sponsors – Fill out the Smart Growth Screening Tool until the directions indicate to **STOP** for the project type under consideration. For all other projects, complete answering the questions. For any questions, refer to <u>Smart Growth Guidance</u> document.

Title of Proposed Project: Inner Loop Transformation

Location of Project: Rochester, New York

Brief Description: Project includes elimination of a high-speed urban expressway and creation of an at-grade city-scale boulevard-style city street to improve safety and provide other social and economic benefits

A. Infrastructure:

		 maintenance or improvement of existing infrastructure) maintain, or improve existing infrastructure?
Yes ⊠	No 🗌	N/A 🗌
• •	se this space to e our narrative)	xpand on your answers above – the form has no limitations on the
Exis	ting Inner Loop c	orridor to be transformed to a boulevard-style city street

Maintenance Projects Only

- a. Continue with screening tool for the four (4) types of maintenance projects listed below, as defined in NYSDOT PDM Exhibit 7-1 and described in 7-4: https://www.dot.ny.gov/divisions/engineering/design/dqab/pdm
 - Shoulder rehabilitation and/or repair;

- Upgrade sign(s) and/or traffic signals;
- Park & ride lot rehabilitation;
- ⇒ 1R projects that include single course surfacing (inlay or overlay), per Chapter 7 of the NYSDOT Highway Design Manual.
- b. For all other maintenance projects, **STOP** here. Attach this document to the programmatic <u>Smart Growth Impact Statement and signed Attestation</u> for Maintenance projects.

For all other projects (other than maintenance), continue with screening tool.

B. Sustainability:

NYSDOT defines Sustainability as follows: A sustainable society manages resources in a way that fulfills the community/social, economic and environmental needs of the present without compromising the needs and opportunities of future generations. A transportation system that supports a sustainable society is one that:

- Allows individual and societal transportation needs to be met in a manner consistent with human and ecosystem health and with equity within and between generations.
- ⇒ Is safe, affordable, and accessible, operates efficiently, offers choice of transport mode, and supports a vibrant economy.
- ⇒ Protects and preserves the environment by limiting transportation emissions and wastes, minimizes the consumption of resources and enhances the existing environment as practicable.

For more information on the Department's Sustainability strategy, refer to Appendix 1 of the Smart Growth Guidance and the NYSDOT web site, www.dot.ny.gov/programs/greenlites/sustainability

(Addresses SG Law criterion j: to promote sustainability by strengthening existing and creating new communities which reduce greenhouse gas emissions and do not compromise the needs of future generations, by among other means encouraging broad based public involvement in developing and implementing a community plan and ensuring the governance structure is adequate to sustain and implement.)

1.	Will this project	promote sustaina	ability by strengthening existing communities?	
	Yes 🛚	No 🗌	N/A	
2.	Will the project	reduce greenhou	se gas emissions?	
	Yes	No 🖂	N/A	
	Explain: (use th	nis space to expan	d on your answers above)	

Removing the Inner Loop barrier will promote the reconnection of neighborhood communities and the Center City commercial areas. The conversion of a free-flowing high-speed expressway to a low speed city street with traffic flow regulated by traffic signals will generate a minor increase in green house gases

C	Smart	Crowth	Location:
U.	Sillart	GIUWUI	Location.

Plans and investments should preserve our communities by promoting its distinct identity through a local vision created by its citizens.

(Addresses SG Law criteria b and c: to advance projects located in municipal centers; to advance projects in developed areas or areas designated for concentrated infill development in a municipally approved comprehensive land use plan, local waterfront revitalization plan and/or brownfield opportunity area plan.)

	' '	,					
1.	Is this project located in a developed area?						
	Yes 🖂	No 🗌	N/A				
2.	Is the project loca	ated in a munic	pal center?				
	Yes 🖂	No 🗌	N/A				
3.	Will this project f	oster downtow	n revitalization?				
	Yes 🖂	No 🗌	N/A				
4.	the state of the s						
	Yes 🖂	No 🗌	N/A				
	Explain: (use this space to expand on your answers above)						
			y the removal of the existing Inner Loop expressway will future commercial, residential or institional development.				

D. Mixed Use Compact Development:

Future planning and development should assure the availability of a range of choices in housing and affordability, employment, education transportation and other essential services to encourage a jobs/housing balance and vibrant community-based workforce.

(Addresses SG Law criteria e and i: to foster mixed land uses and compact development, downtown revitalization, brownfield redevelopment, the enhancement of beauty in public spaces, the diversity and affordability of housing in proximity to places of employment, recreation and commercial development and the integration of all income groups; to ensure predictability in building and land use codes.)

	•					
1.	Will this project f	oster mixed lan	d uses?			
	Yes 🖂	No 🗌	N/A			
2.	Will the project for	oster brownfiel	d redevelopment?			
	Yes	No 🗌	N/A 🖂			
3.	Will this project f	oster enhancen	nent of beauty in public spaces?			
	Yes 🛛	No 🗌	N/A			
4.	Will the project for recreation?	oster a diversity	of housing in proximity to places of employment and/or			
	Yes 🖂	No 🗌	N/A			
5.	Will the project for and/or compact of		of housing in proximity to places of commercial development			
	Yes 🖂	No 🗌	N/A			
6.	Will this project f	oster integratio	on of all income groups and/or age groups?			
	Yes 🖂	No 🗌	N/A			
7.	Will the project e	nsure predictal	oility in land use codes?			
	Yes 🖂	No 🗌	N/A			
8.	Will the project e	ensure predictal	bility in building codes?			
	Yes 🖂	No 🗌	N/A			
	Explain: (use this	s space to expa	nd on your answers above)			
	Vacant lands that will be created by this project will be available for all potential kinds of future development; private and public, commercial, residential and/or institutional					

E. Transportation and Access:

NYSDOT recognizes that Smart Growth encourages communities to offer a wide range of transportation options, from walking and biking to transit and automobiles, which increase people's access to jobs, goods, services, and recreation.

(Addresses SG Law criterion f: to provide mobility through transportation choices including improved public transportation and reduced automobile dependency.)

pι	ublic transportation and reduced automobile dependency.)							
1.	Will this project provide public transit?							
	Yes	No 🗌	N/A ⊠					
2.	Will this project e	nable reduced a	automobile dependency?					
	Yes 🖂	No 🗌	N/A					
3.	Will this project in on-road bike lanes pedestrian signals	s, lane striping,	and pedestrian facilities (such as shoulder widening to provide for crosswalks, new or expanded sidewalks or new/improved					
	Yes 🖂	No 🗌	N/A					
	(Note: Question 3 is an expansion on question 2. The recently passed Complete Streets legislation requires that consideration be given to complete street design features in the planning, design, construction, reconstruction and rehabilitation, but not including resurfacing, maintenance, or pavement recycling of such projects.)							
	Explain: (use this space to expand on your answers above)							
	Explain: (use this space to expand on your answers above) Elimination of full access control urban expressway with free access urban city street that includes all new pedestrian facilities meeting ADA standards and separate cycle track will improve mobility and safety for pedestrians and bicyclists.							

F. Coordinated, Community-Based Planning:

Past experience has shown that early and continuing input in the transportation planning process leads to better decisions and more effective use of limited resources. For information on community based planning efforts, the MPO may be a good resource if the project is located within the MPO planning area.

(Addresses SG Law criteria g and h: to coordinate between state and local government and intermunicipal and regional planning; to participate in community based planning and collaboration.)

1.	Has	there been pa	articipation in co	ommunity-based planning and collaboration on the project?
	Yes		No 🗌	N/A
2.	ls th	ne project cons	sistent with loca	al plans?
	Yes	\boxtimes	No 🗌	N/A
3.	Is th	ne project cons	sistent with cou	ınty, regional, and state plans?
	Yes		No 🗌	N/A
		there been co ject?	oordination betv	ween inter-municipal/regional planning and state planning on the
	Yes		No 🗌	N/A 🗌
	Ехр	lain: (use this	space to expan	d on your answers above)
		lan, 2003 Cent	ter City Master	rith the goals and objectives outlined in the City's Vision 2000 Plan and the Renaissance 2010 Comprehensive Plan, as well as ouncil Long Range Transportation
G	S. S	tewardsh	ip of Natu	ral and Cultural Resources:
Cle for	ean v r Ne sets	water, clean ai w York State r , and open spa	ir and natural op	pen land are essential elements of public health and quality of life rs, and future generations. Restoring and protecting natural energy efficiency, and green building, should be incorporated into
Cle for as: all (A ag	ean v r Ne sets land ddre	water, clean ai w York State r , and open spa d use and infra esses SG Law o Itural land, for	ir and natural operior and natural operior acce, promoting astructure planneriterion d:To perests surface and	pen land are essential elements of public health and quality of life rs, and future generations. Restoring and protecting natural energy efficiency, and green building, should be incorporated into
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Cle for ass all (A ag arc	ean ver Ne sets land ddre gricu eas a Will Yes	water, clean ai w York State r , and open spa d use and infra esses SG Law o Itural land, for and significant I the project p	ir and natural operesidents, visitorace, promoting astructure planneriterion d:To prests surface and arotect, preserve	pen land are essential elements of public health and quality of life rs, and future generations. Restoring and protecting natural energy efficiency, and green building, should be incorporated into hing decisions. rotect, preserve and enhance the State's resources, including d ground water, air quality, recreation and open space, scenic cheological resources.) e, and/or enhance agricultural land and/or forests? N/A
Cle for as: all (A ag ard	ean verse research re	water, clean ai w York State r , and open spa d use and infra esses SG Law o Itural land, for and significant I the project pr	ir and natural operations of the control of the con	pen land are essential elements of public health and quality of life rs, and future generations. Restoring and protecting natural energy efficiency, and green building, should be incorporated into hing decisions. rotect, preserve and enhance the State's resources, including d ground water, air quality, recreation and open space, scenic cheological resources.) e, and/or enhance agricultural land and/or forests? N/A R, and/or enhance surface water and/or groundwater?
Cle for as: all (A ag ard	ean y r Ne sets land ddre gricu eas a Will Yes Will Yes	water, clean ai w York State r , and open spa d use and infra esses SG Law o Itural land, for and significant I the project project project project	ir and natural operations of the control of the con	pen land are essential elements of public health and quality of life rs, and future generations. Restoring and protecting natural energy efficiency, and green building, should be incorporated into ning decisions. rotect, preserve and enhance the State's resources, including d ground water, air quality, recreation and open space, scenic cheological resources.) e, and/or enhance agricultural land and/or forests? N/A e, and/or enhance surface water and/or groundwater? N/A N/A

Smart	Growtl	h S	creening	T	'001
Dillate	OTOWE		CICCILLIE		001

	Yes		No 🗌	N/A
5.	Will	the project pr	otect, preserve	, and/or enhance scenic areas?
	Yes		No 🗌	N/A 🖂
6.	Will	the project pr	otect, preserve	, and/or enhance historic and/or archeological resources?
	Yes		No 🗌	N/A
	Expl	l ain: (use this	space to expan	d on your answers above)
	be	_	ironmental stud y investigated	dies, the project has confirmed that the above concerns have

Smart Growth Impact Statement (STEP 2)

NYSDOT: Complete a Smart Growth Impact Statement (SGIS) below using the information from the Screening Tool.

Local Sponsors: The local sponsors are **not** responsible for completing a Smart Growth Impact Statement. Proceed to **Step 3**.

Smart Growth Impact Statement

PIN: 4940.T7

Project Name: Inner Loop East Transformation Project

Pursuant to ECL Article 6, this project is compliant with the New York State Smart Growth Public Infrastructure Policy Act. This project has been determined to meet the relevant criteria, to the extent practicable, described in ECL Sec. 6-0107. Specifically, the project:

- The project is an improvement to an existing infrastructure. It is located in a municipal center and in an area designated for concentrated infill development consistent with an approved comprehensive land use plan.
- Environmental impacts are expected to be negligible, and resource preservation and/or protection of such features as air quality, surface and groundwater and historic and archeological resources are included.
- The project will also foster mix land uses on the lands freed-up by the removal of the Inner Loop expressway and will improve mobility for all users including motorists, pedestrians, bicyclists and transit operations

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This publically supported infrastructure project complies with the state policy of maximizing the social, economic and environmental benefits from public infrastructure development. The project will not contribute to the unnecessary costs of sprawl development, including environmental degradation, disinvestment in urban and suburban communities, or loss of open space induced by sprawl.

Review & Attestation Instructions (STEP 3)

Local Sponsors: Once the Smart Growth Screening Tool is completed, the next step is to submit the project certification statement (Section A) to Responsible Local Official for signature. After signing the document, the completed Screening Tool and Certification statement should be sent to NYSDOT for review as noted below.

NYSDOT: For state-let projects, the Screening Tool and SGIS is forwarded to Regional Director/RPPM/Main Office Program Director or designee for review, and upon approval, the attestation is signed (Section B.2). For locally administered projects, the sponsor's submission and certification statement is reviewed by NYSDOT staff, the appropriate box (Section B.1) is checked, and the attestation is signed (Section B.2).

A. CERTIFICATION (LOCAL PROJECT)

I HEREBY CERTIFY, to the best of my knowledge, all of the above to be true and correct.

Preparer of this document:	
Signature Z. Holl	1/9/14 Date
PRINCIPAL	Lames F. HOFMANN JR.
Title	Printed Name
Responsible Local Official (for local projects):	
Signature M= Enter	1/9/14 Date
17	JAMES R. Mª Intosh
Title	Printed Name

B. ATTESTATION (NYSDOT)

 I HEREBY: 	•
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- Concur with the above certification, thereby attesting that this project is in compliance with the State Smart Growth Public Infrastructure Policy Act
- Concur with the above certification, with the following conditions (information requests, confirming studies, project modifications, etc.):

(Attach additional sheets as needed)

- do not concur with the above certification, thereby deeming this project ineligible to be a recipient of State funding or a subrecipient of Federal funding in accordance with the State Smart Growth Public Infrastructure Policy Act.
- 2. **NOW THEREFORE,** pursuant to ECL Article 6, this project is compliant with the New York State Smart Growth Public Infrastructure Policy Act, to the extent practicable, as described in the attached Smart Growth Impact Statement.

NYSDOT Commissioner, Regional Director, MO Program Director, Regional Planning & Programming Manager (or official designee):

Signature

Date

Title

Printed Name

RICHARD J. PAPAJ, JR.