Northwest Corner of 59th Avenue & Van Buren Street -Industrial

PLANNED UNIT DEVELOPMENT

Land Use

and

Development Standards

Case: Z-43-12-7

Submitted: October 5, 2011

Resubmitted: January 31, 2013

Public Hearing Draft Submitted:

Final City Council Approval:

A Planned Unit Development (PUD) is intended to be a stand-alone document of zoning regulations for a particular project. Provisions not specifically regulated by the PUD are governed by the zoning ordinance. A PUD may include substantial background information to help illustrate the intent of the development. The purpose and intent statements are not requirements that will be enforced by the City. The PUD only modifies zoning ordinance regulations and does not modify other City Codes or requirements. Additional public hearings may be necessary such as, but not limited to, right-of-way abandonments.

Development Team

PROPERTY OWNER:	El Dorado Van Buren 80 LLC 426 North 44 th Street, Suite 100 Phoenix, AZ 85008 (602) 955-2424 office (602) 955-3543 fax	James F. Kenny jkenny@eldoradoholdings.net
PROPERTY BUYER (IN ESCROW):	Wentworth Property Company, LLC 2701 East Camelback Road, Suite 185 Phoenix, AZ 85016 (602) 296-0000 office (602) 296-0001 fax	James N. Wentworth jnwentworth@wentprop.com - or - Tim Chester, Managing Director tchester@wentprop.com
APPLICANT/ LEGAL REPRESENTATIV E:	Beus Gilbert PLLC 4800 North Scottsdale Road, Suite 6000 Scottsdale, AZ 85251 (480) 429-3065 office (480) 429-3100 fax	Dennis M. Newcombe dnewcombe@beusgilbert.com Paul E. Gilbert, Esq. pgilbert@beusgilbert.com
SITE PLANNING:	Butler Design Group, Inc. 5017 East Washington Street, Suite 107 Phoenix, AZ 85034 (602) 957-1800 office (602) 957-7722 fax	Jeff Cutberth, AIA, NCARB JCutberth@butlerdesigngroup.com
CIVIL ENGINEER:	Erickson & Meeks Engineering 13444 North 32 nd Street, Suite 6 Phoenix, AZ 85032 (602) 569-6593 office (602) 569-6493 fax	Jeff Erickson jerickson@emellc.com
LAND SURVEYOR:	Survey Innovation Group, Inc. 7301 East Evans Road Scottsdale, AZ 85260 (480) 922-0780 office (480) 922-0781 fax	Jason Segneri jasons@sigsurveyaz.com

Northwest Corner of 59th Avenue & Van Buren Street - Industrial

Planned Unit Development

Land Use and Development Standards

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Executive Summary

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial Planned Unit Development ("PUD") establishes the regulatory framework necessary to facilitate the proposed development of an industrial oriented expansion within this area of the Estrella Village in order to provide a better, and more appropriate, land use and transition as well as employment on seventy-nine (79) net acres. (See **Figure 1, Context Exhibit**.) The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD compliments the existing and future development occurring within this area of the Estrella Village, which was planned as an important regional employment, warehousing, and industrial center. The City of Phoenix has invested significant infrastructure resources in this area too. The Arizona Department of Transportation ("ADOT") is also planning for the western (north/south) portion 202 freeway extension to connect with I-10 at 59th Avenue. The proposed development at this corner will capitalize on and broaden economic development opportunities in this area by acting as a catalyst for additional development/redevelopment. The **Context Exhibit**, provided on the following page, provides a graphic overview of the planning area, street/freeway system, and the available vacant land.

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD represents the evolution of this property from high density multi-family housing to a more appropriate industrial project that fulfills a community need to provide more employment as well as a transitional use between the existing industrial development along Van Buren Street and the residential development along Fillmore Street. The proposed industrial development for this property is anticipated to develop either in phases or all at once depending on the market demand. This PUD is designed to create the framework to allow for flexibility while protecting the adjacent residential homes along Fillmore Street.

Thus, the *Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD* provides for uses and development standards that fulfill the needs of both the community and the City of Phoenix.

A. Purpose and Intent

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial Planned Unit Development ("PUD") is consistent with the Estrella Village Plan. The PUD encourages new development to be compatible with the surrounding area both currently and in the future. The property is located directly adjacent to established industrial uses, a major arterial street, and existing residential homes. The PUD provides adequate landscaping, screening, and building setbacks to buffer the existing residential homes to the north while still allowing future employment opportunities within close proximity to these homes, an existing freeway corridor (I-10), and a future freeway corridor. The primary goals of the PUD are to:

- 1. Facilitate development of a proposed industrial development.
- 2. Expand development options.
- 3. Create flexible and appropriate development standards that promote the City's goals/policies for the Estrella Village.

The PUD will ensure compatibility with surrounding properties; provide for a variety of services and employment opportunities; and generate new tax revenues to the City of Phoenix.

Figure 1: Context Exhibit



1. <u>Regulatory Provisions</u>

The PUD has been prepared pursuant to Section 671 of the Zoning Ordinance of City of Phoenix, Arizona (Planned Unit Development) to establish the regulatory framework for the *Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD* development by creating development standards specific to the context of the project site.

The PUD is a stand-alone document comprised of project specific zoning regulations, including permitted uses, conditions/limitations, development standards, building heights, landscaping, outdoor storage, driveway locations, and monument signage. Zoning provisions not specifically regulated by the PUD are governed by the Zoning Ordinance of the City of Phoenix, Arizona. In the event of a conflict between a provision of the PUD and a provision of the Zoning Ordinance of the City of Phoenix. The PUD does not modify other City Code provisions or requirements.

The provisions of the PUD apply to all property within the project boundary (see Appendix A, PUD Area Legal Description).

All images within the PUD are intended to be illustrative. The images do not convey the final design concepts for the property, but just the potential limits/restrictions of the property. Specific site plan(s) for an individual development project or for the entire PUD property will be processed in the future through the City of Phoenix site plan review process.

2. Zoning Ordinance Applicability

The intended regulatory applicability of the Zoning Ordinance of the City of Phoenix, Arizona as adopted and periodically amended, is applicable to the *Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD* except as modified by the Development Standards contained within this Planned Unit Development. Specifically, the applicability of Zoning Ordinance Provisions is defined as follows:

- Chapter 1 Purpose and Applicability: All provisions are applicable to this PUD.
- Chapter 2 Rules of Construction and Definitions: The defined terms within Chapter 2 are applicable.
- Chapter 3 Decision Making and Administrative Bodies: All provisions are applicable to this PUD.
- Chapter 4 Planning Documents: All provisions are applicable to this PUD.
- Chapter 5 Development Review Procedures: All provisions are applicable to this PUD.
- Chapter 6 Zoning Districts: All provisions are replaced and superseded by this PUD.
- Chapter 7 Development Standards of General Applicability: As modified by this PUD.
- Chapter 8 Historic Preservations: All provisions are not applicable to this PUD.
- Chapter 9 Nonconformities: All provisions are not applicable to this PUD.
- Chapter 10 Enforcement: All provisions are applicable to this PUD.
- Chapter 11 Severability: All provisions are applicable to this PUD.
- Chapter 12 Downtown Core: All provisions are not applicable to this PUD.
- Appendix A Zoning Fee Schedule: All fees are applicable to this PUD.

B. Development Plan

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD is created to capitalize on the property's location to two (2) important regional transportation corridors, expand on the City's planning and infrastructure investments, and act as a catalyst for future economic development opportunities within the Estrella Village. The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD Concept Exhibit (See Figure 2) for the property are intended to facilitate the proposed industrial development. The PUD also expands uses from the City of Phoenix Zoning Ordinance and promotes flexibility in site design while ensuring compatibility. See Figure 2, Concept Exhibit for a reference of potential site development standards.

1. <u>Location and Access</u>

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD is a seventy-nine (79) net acre property generally bounded by 59th Avenue to the east (future 202 freeway alignment), Van Buren Street to the south, heavy (C-3) commercial type use and a senior living facility to the west, and Fillmore street to the north. Access to the site will occur from various locations along both Van

Buren Street and 59th Avenue. No access will be allowed along Fillmore Street to the north.

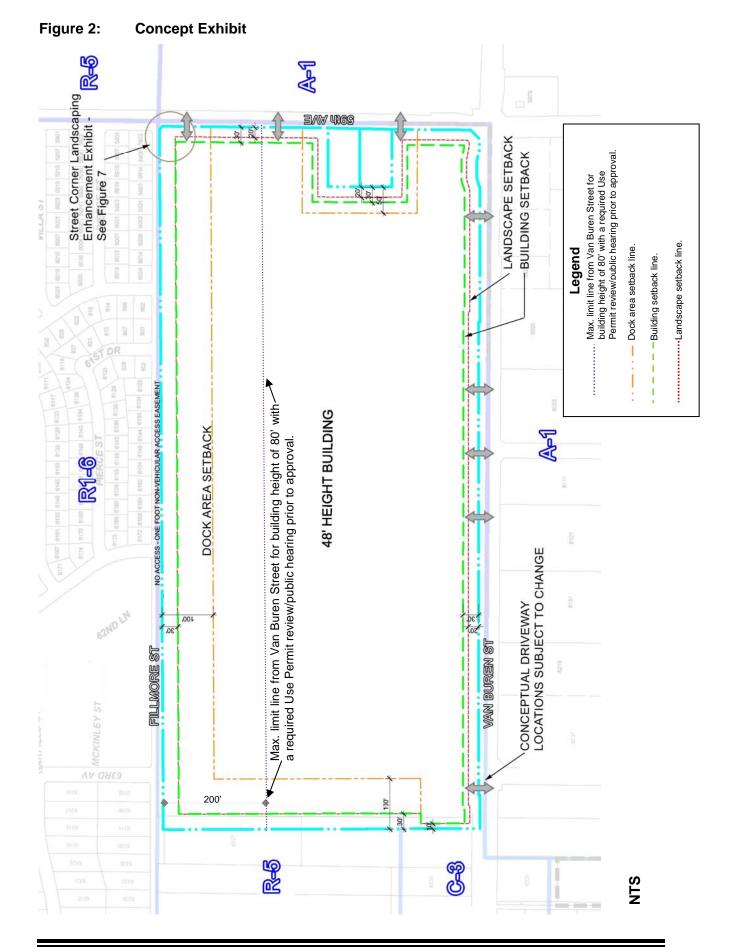
2. <u>Uses</u>

A comprehensive list of uses has been developed that includes permitted uses and permitted uses subject to certain conditions/imitations from the City of Phoenix's Zoning Ordinance.

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD provides flexibility for any of the permitted uses to locate anywhere on the site.

3. <u>Standards</u>

The development standards for PUD provides for strategic changes, where appropriate, to facilitate reasonable development based on the current/future context of the area. Monument sign standards are also included within the PUD to provide certainty to the type and possible location of those signs with the future development. Another important component to the Northwest Corner of 59th Avenue & Van Buren Street - Industrial PUD is the allowable building heights. The location of the property being adjacent to both 59th Street (future 202 freeway alignment and Van Buren Street could support increased building heights. Further, as indicated by the City of Phoenix General Plan Land Use Map, those areas of the subject property are surrounded by land uses that are not anticipated to be sensitive to building height. In addition, the current zoning on the property (R-5) allows up to forty-eight (48) feet. Higher buildings can also serve to protect residential homes from traffic noise from the surrounding streets and the future freeway. Thus, the need for flexibility in building heights from forty-eight (48) feet along Fillmore Street up to a maximum of eighty (80) feet along Van Buren Street (with a use permit) may be necessary for reasonable industrial development. The additional height allowance and location on the site shall be determined via the use permitting and public hearing process. However, the maximum building height of eighty (80) feet shall be no closer than twohundred (200) feet from the residential zoned properties along Fillmore Street. Building setbacks, landscape setbacks, plantings, and screening will also serve to soften and transition the building heights without impacting the existing homes along Fillmore Street. See Figure 2. Concept Exhibit.



C. Site Location and Conditions

1. <u>Site Location and Conditions</u>

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD is a seventy-nine (79) net acre property generally bounded by 59th Avenue to the east (future 202 freeway alignment and vacant land), Van Buren Street to the south (existing industrial uses), heavy (C-3) commercial type use/senior living facility (R-5) to the east, and Fillmore street to the north (existing residential homes/public park). The legal description and ALTA survey for the PUD is provided in Appendix A.

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD property is currently under single ownership and is in escrow to be purchased by Wentworth Property Company, LLC. The continued transfer to a single ownership and this PUD provides a significant opportunity to plan a cohesive and thoughtful industrial development.

2. <u>Topography and Physical Features</u>

The Northwest Corner of 59th Avenue & Van Buren Street PUD property is flat, undeveloped, and currently being farmed. (Refer to Figure 3, Existing Site Conditions.)

Figure 3: Existing Site Conditions



D. General Plan Conformance

1. <u>A Statement of Conformity</u>

The current City of Phoenix General Plan designates the Northwest Corner of 59th Avenue & Van Buren Street PUD property as a mix of land uses including designations of Industrial, 15 du/acre Higher Density, and Residential 3.5 to 5 du/acre. Note: A companion Minor General Plan Amendment case (General Plan Case No. GPA-EST-4-12-7) is being processed concurrently with the rezoning request to change the above designations to an Industrial designation. The approval of the Minor General Plan Amendment case (GPA-EST-4-12-7) will bring the Northwest Corner of 59th Avenue & Van Buren Street PUD in to conformance with the Industrial land use designation as well as being consistent with many of the goals and policies outlined in the City of Phoenix General Plan Moreover, the property is located within the Southwest Phoenix Employment Center and the Enterprise Zone. These areas focus on creating quality employment opportunities for the community. The property is also located less than one mile south of the I-10 freeway and at the intersection of two arterial streets. Thus, this location is appropriate for the proposed industrial designation and supports the intent of the Southwest Employment Center and Enterprise Zone. (Refer to Figure 4, Current/Proposed General Plan Land Use Maps.)

2. <u>Conformance with General Plan Goals</u>

Land Use Element, Goal 3 Infill, Policy 2: Identify Transitional Neighborhoods in which the Surrounding Land Use Patterns, Zoning Districts, and Resident Desires Indicate Conversion to Commercial and Industrial Uses.

The vacant property is located 1-mile south of I-10, along two (2) major arterial streets (future 202 freeway alignment), and has industrial zoning/uses located to the south, west, and east.

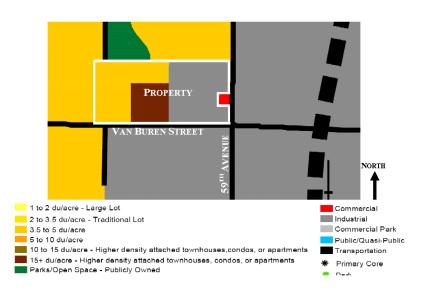
Land Use Element/Goal 2, Employment and Population Balance: Development of Each Village's Potential Should be Encouraged by Distributing a Diversity of Employment and Housing in a Way that Achieves a Balanced Citywide Plan and that Is Consistent with Commute Travel Patterns and the Current Character of Each Developed Village.

The proposed industrial development will be located south of I-10 and adjacent to the future 202 freeway, which will reduce commuter travel and encourage employment opportunities that supports residential uses.

<u>Growth Element, Goal 1 – Growth: Maintain a High Quality of Life and Economically Healthy Community.</u>

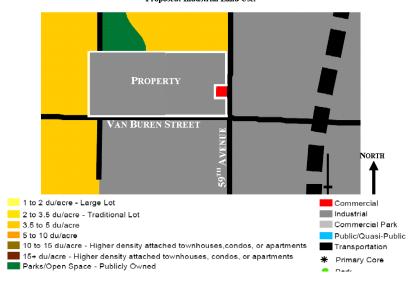
The proposed PUD request will promote economically healthy and balanced environment. The future industrial users will be supported by the surrounding industrial, commercial, and residential uses that currently exist in the area. The proposed Northwest Corner of 59th Avenue & Van Buren Street PUD request is consistent with the existing industrial zoning designation to the south, west, and east.

Figure 4: Current/Proposed General Plan Land Use Maps



GENERAL PLAN - CURRENT LAND USES - TO BE AMENDED UNDER SEPARATE APPLICATION.

Proposed: Industrial Land Use.



E. Zoning and Land Use Compatibility

1. <u>Surrounding Zoning and Land Use</u>

The existing zoning on the *Northwest Corner of 59th Avenue & Van Buren Street PUD* property is predominately zoned R-5 (Multi-Family Residence District) with approximately 12 acres zoned C-2 (Intermediate Commercial) and 1 acre zoned C-3 (General Commercial). (Refer to **Table 1**.) The property is undeveloped. (Refer to **Figure 5, Existing Zoning**.)

Location	General Plan	Zoning	Land Use
North	Residential 3.5-5 du/acre and Parks/Open Space Public	R1-6 (Single -Family Residence District)	Single-family homes and public park.
South	Industrial	A-1 (Light Industrial District)	Industrial uses.
East	Industrial	A-1 (Light Industrial District)	Vacant / Future 202 freeway.
West	Residential 3.5-5 du/acre	C-3 (General Commercial District) / R-5 (Multi-Family Residence District)	Heavy commercial and senior living facility.

Table 1: Surrounding Zoning and Land Use

The Northwest Corner of 59th Avenue & Van Buren Street PUD proposes a land use and development standards that are consistent with adjacent development as well as in harmony with the City's future planning framework for the area. (Refer to **Figure 6, Proposed Zoning**.)

F. Land Uses

The following list of uses **(Table 2: Permitted Use List)** defines permitted uses and permitted uses subject to certain conditions/limitations from the City of Phoenix's Zoning Ordinance. The proposed uses, hybrid A-1 and General Commerce type uses, along with the necessary development standards provides for a hybrid/transitional zoning district. The PUD provides for an optimal level of uses and development standards that are compatible with the surrounding area (i.e., existing A-1 uses and residential). Moreover, the allowance for managed and mitigated outdoor storage, trailer parking, etc. is an appropriate and quite use adjacent to residential areas.

The Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD provides flexibility for any of the permitted uses to locate anywhere on the site.

The master developer or any property owner within the defined limits of the PUD may request an interpretation of analogous use to the defined list below from the City of Phoenix Zoning Administrator. The Zoning Administrator may administratively approve a use analogous to those listed below. Brief descriptions of the two (2) types of permitted uses are defined on the following page.

Figure 5: Existing Zoning



Figure 6: Proposed Zoning



1. <u>Permitted Principal Uses</u>

Uses specifically permitted as set forth in **Table 2** or analogous to those specifically permitted as determined by the City of Phoenix Zoning Administrator.

2. <u>Permitted Uses Subject to Conditions/Limitations Standards</u>

- a) Uses specifically permitted subject to conditions/limitations as set forth in Table 2. Performance Standards are specific for each individual use as defined. Some uses subject to conditions/limitations may also require a Use Permit which is processed in accordance with the provisions of the City of Phoenix Zoning Ordinance.
- b) Temporary uses shall be permitted pursuant to the City of Phoenix Zoning Ordinance's regulations and standards for temporary uses.
- c) The outdoor use of a public address system shall be prohibited.
- d) Outdoor storage, trailer or freight storage, storage containers, and dock areas.
 - 1. Shall be screened, see Walls and Screening Section of the PUD.
 - 2. All outdoor storage, trailers, freight, storage containers shall be no higher than fifteen (15 feet) and no closer than thirty (30) feet of residentially zoned properties.
 - 3. The area used for storage or circulation shall be dust-free.
 - 4. Dock areas.
 - a. A dock area shall be considered as the area immediately adjacent to the building where trucks with trailers are parked for the purpose of loading and unloading to and from the building.
 - b. A dock area shall be no closer than one-hundred (100) feet to residentially zoned properties along west and north sides of the PUD.
 - c. A dock area shall be no closer than fitly (50) feet to those residentially zoned R-5 properties notched out from the PUD on the east and along 59th Avenue.

	Permitted Uses	Conditions/Limitations
1.	Agricultural Implements Repair and Service	
2.	Agricultural Tillage, Contractors	
3.	Air Conditioning Equipment, Fabrication	
4.	Aircraft Fabrication and Assembly	A Use Permit shall be obtained.
5.	Aircraft Sales and Repair	A Use Permit shall be obtained.
6.	Auto Seat Covers and Trim Shop	

Table 2: Permitted Use List

	Permitted Uses	Conditions/Limitations
7.	Automobile Parts and Supplies, New/Used Retail and Wholesale	Indoors.
8.	Automobiles: Parts and Supplies Used, Salvage Storage	Indoors.
9.	Awnings, Custom Fabrication and Sales	
10.	Bakers and Baked Goods, Manufacturing Wholesale and Storage	
11.	Beer, Ale and Wine Distributor, Wholesale, Storage, and bottling	
12.	Belting, Manufacturing	
13.	Beverages, Wholesale, Storage and bottling	
14.	Biomedical and Medical Research Office and/or Laboratory	
15.	Boat, Manufacturing	
16.	Boats, Custom Fabrication	
17.	Boilers, Repairing	
18.	Bookbinders, Commercial	
19.	Boxes, Sales and Manufacturing	
20.	Breweries	
21.	Brick Storage	A Use Permit shall be obtained for storage outdoors.
22.	Brooms, Mtg.	
23.	Brushes, Manufacturing	
24.	Building Contractors: Equipment and Material; Storage	
25.	Building Materials, Wholesale and Storage	
26.	Bus Line Depots with repair and light maintenance, including washing facilities	A Use Permit shall be obtained.
27.	Bus Line Shops, Garage Repair	
28.	Button Manufacturing, Metal, Plastics	

Permitted Uses		Conditions/Limitations
29.	Cabinet Makers	
30.	Candle, Manufacturing	
31.	Candy, Wholesale Distribution	
32.	Canvas, Manufacturing	
33.	Carbonic Ice, Manufacturing	
34.	Carpets and Rugs, Wholesale, and Warehouse	
35.	Caskets, Manufacturing	
36.	Cement Products, Manufacturing (pipe, blocks, etc.)	Indoors.
37.	Cement Storage	A Use Permit shall be obtained for storage outdoors.
38.	Chemicals and Drugs, Storage and Distribution	
39.	Chocolate and Coca Products, Manufacturing	
40.	Cigarette Manufacturing	
41.	Cleaning and Dyeing Plants	
42.	Clothing, Wholesale and Distribution	
43.	Coffee, Wholesale, Storage, and Roasting	
44.	Coin Machines, Rental and Service	
45.	Commercial Vehicle s and Boats for Sale (Outdoor)	 (1) Shall be allowed along Van Buren Street. (2) A maximum of six (6) foot high view fence may be allowed, which may have a solid base of no more than two (2) feet above finished grade, with the upper four (4) foot portion open to allow visibility, such as with wrought iron. (3) View fencing shall vary every four-hundred (400) lineal feet to visually reflect a meandering or staggered appearance. Design features should be used to break up the appearance of a long, straight fence. Such design features may include planters, pilasters, use of

Permitted Uses		Conditions/Limitations
		different block, texture, integral color, or dense landscaping.
46.	Concrete Products, Manufacturing	Indoors.
47.	Concrete Products, Storage	
48.	Confectioners, Wholesale	
49.	Contractors Equipment and Supplies, Retail Sales	
50.	Contractors Equipment and Supplies, Storage	
51.	Cranes, Storage	Indoors.
52.	Crockery, Manufacturing	
53.	Crop Dusting Equipment Yards	Excluding airplanes.
54.	Decoration, Workshop and Equipment Yard	
55.	Dental Laboratories	
56.	Diaper Supply Service	
57.	Diesel Engines Service, Equipment and Supplies	
58.	Display Designers and Builders' Shops	
59.	Distillers, Distribution, Warehouse	
60.	Doors, Metal, Manufacturing	
61.	Doors, Sash and Trim, Wood, Manufacturing	
62.	Draperies, Manufacturing	
63.	Drugs, Manufacturing	
64.	Drugs, Wholesale Storage	
65.	Dry Goods, Wholesale and Storage	
66.	Electric Equipment, Retail Sales and Repair	
67.	Electric Light and Power Companies, Storage	
68.	Electric Plating	

	Permitted Uses	Conditions/Limitations
69.	Electrical Appliances, Manufacturing	
70.	Excelsior Manufacturing	
71.	Exhibition Hall	
72.	Exterminating and Fumigating Warehouse	
73.	Family Game Center	
74.	Farm Implements and Machinery Assembly	Indoors.
75.	Farm Implements and Machinery, Retail Sales	A Use Permit shall be obtained for sales outdoors.
76.	Feed and Seed, Wholesale and Storage	
77.	Fences, Metal Fabrication, Mfg;	
78.	Fences, Metal, Wholesale and Storage	
79.	Fertilizers, Processed, Storage Only	
80.	Fire Protection Equipment and Supplies, Retail Sales and Service	
81.	Floor Coverings, Retail and Wholesale	
82.	Flour and Grain Storage and Elevators	Elevators no higher than allowed for an enclosed building or via Use Permit.
83.	Freight Storage	
84.	Frozen Foods, Wholesale Storage and Distribution	
85.	Fruit and Vegetable Juice, Processing	
86.	Fruits and Vegetables, Processing	
87.	Furniture Manufacturing, Metal, Wood	
88.	Furniture, Repairing and Refinishing	
89.	Furniture, Wholesale and Storage	
90.	Furs, Custom Cleaning, Storage	
91.	Garment Factory	

Permitted Uses		Conditions/Limitations		
92.	Gasoline, Storage Tanks (subject to approval by Fire Prevention Supervisor)	Ancillary to a permitted use.		
93.	Glass Shops, Custom			
94.	Gymnasiums, Private or Commercial			
95.	Hay and Straw, Sales, Storage (subject to approval by Fire Prevention Supervisor)			
96.	Heating and Ventilating Equip., Storage			
97.	Hotel Equipment, Assembly and Custom Fabrication			
98.	Hotel Equipment, Supplies and Retail Sales			
99.	House Movers, Equipment Storage	Indoors.		
100.	Ice, Manufacturing			
101.	Insulation Materials, Storage and Wholesale			
102.	Insulation, Contractors' Equipment Yards			
103.	Iron, Custom Decorative Wrought Iron Shops			
104.	Janitors' Supplies, Storage and Warehouse			
105.	Jewelers, Manufacturing			
106.	Laboratories, Testing and Research			
107.	Landscape Contractors			
108.	Laundries			
109.	Laundry Equipment and Supplies			
110.	Lawn Mower Repair Shops			
111.	Linen Supply Laundry Service			
112.	Liquor, Storage and Wholesale			
113.	Livestock Supplies, Storage and Wholesale			
114.	Lockers, Food Storage			

Permitted Uses		Conditions/Limitations		
115.	Machinery Rental			
116.	Machinery Rentals, other than industrial			
117.	Machinery Used, Storage			
118.	Meat Packing and Smoking (no slaughtering except rabbits and poultry).			
119.	Millwork (woodworking) Manufacturing			
120.	Mineral Water Distillation and Bottling			
121.	Mining Machinery, Wholesale Storage	Indoors.		
122.	Monuments, Retail Sales and Display			
123.	Motion Picture Equipment, Retail Sales and Display			
124.	Motor Freight Co., Warehouses			
125.	Motor Repairing and Rewinding, Transformers, Generators, Heavy Duty			
126.	Neighborhood Collection Center, subject to the following limitations:	 All loose materials shall be stored within an enclosed container or building. No bay door shall face a residential zoning district if the use is located within one hundred (100) feet of such a district. 		
127.	Notions, Manufacturing and Wholesale			
128.	Office Furniture, Manufacturing			
129.	Office Uses			
130.	Ornamental Metal Work, Custom Hand, Fabrication			
131.	Orthopedic Appliances, Manufacturing and Sales			
132.	Paint and Varnish, Bulk Storage, Warehouse			
133.	Painters' Equipment and Supplies Shops, Wholesale and Storage			

	Permitted Uses	Conditions/Limitations
134.	Paving Contractors' Equipment, Materials Storage	Indoors.
135.	Petroleum Products, Packaging and Storage	
136.	Pickled Products, Manufacturing	
137.	Pipe, Manufacturing	Indoors.
138.	Pipe, Fittings Storage	
139.	Pipe, Fittings Wholesale	
140.	Pipe, Metal, Storage	
141.	Pipe, Used, Storage and Sales	
142.	Planing Mills	
143.	Plant Nurseries, Outdoor	The outdoor sales area must be enclosed within a perimeter screen wall and/or decorative fence to ensure the proper screening of stock merchandise as approved by the Planning and Development Department. Plant materials are excluded from this requirement and may be displayed without solid screening.
144.	Plaster, Wholesale and Storage	Indoors.
145.	Plastic and Plastic Products Manufacturing	
146.	Plastic and Plastic Products, Retail and Wholesale	
147.	Plating and Polishing Shops	
148.	Playground Equipment Sales	
149.	Pottery and Ceramics, Wholesale	
150.	Poultry Supplies Wholesale and Storage	
151.	Produce Packing Plants	
152.	Public Storage Garages	
153.	Public Utility Plants	
154.	Public Utility Service Yards	(1) All outside storage or uses shall be enclosed by a minimum six (6) foot

Permitted Uses		Conditions/Limitations	
		 high and maximum ten (10) foot high masonry wall. (2) A ten (10) foot wide landscaped area shall be required outside of the wall, with screen plantings maintained to a height of ten (10) feet. (3) No lighting fixtures shall exceed fifteen (15) feet in height. 	
155.	Pumps, Repairing and Rental		
156.	Quarters for caretakers or watchman		
157.	Recycling Center, subject to the following limitations:	 Processing may include baling of recyclable materials but not basic processing or compounding to reform the materials into a usable state and shall not include shredding of automobile metals or other uses of similar intensity. All loose materials shall be stored within an enclosed container or building. No bay door shall face a residential zoning district if the use is located within one hundred (100) feet of such a district. 	
158.	Refrigeration Equipment, Repairs and Sales		
159.	Restaurant Equipment, Supplies and Retail Sales		
160.	Riding Equipment Sales		
161.	Road Building Equipment, Storage	Indoors.	
162.	Saddlery Shops, Custom, Handmade		
163.	Scaffolds, Equipment Storage		
164.	Scales, Commercial Weighing		
165.	School Equipment and Supplies Wholesale		
166.	Screens, Doors and Windows, Manufacturing		
167.	Self-Service Storage Warehouses	All storage shall be within a closed building except that boats, trailers and motor vehicles may be placed in outdoor storage areas which are	

Permitted Uses		Conditions/Limitations		
		separate from the buildings and screened from view from adjacent streets and property by walls, fences or landscaping. Outdoor storage areas shall not count toward meeting parking requirements.		
168.	Septic Tanks, Contractors, Construction	Indoors.		
169.	Sewer Pipe, Manufacturing, Concrete	Indoors.		
170.	Sewer Pipe, Storage			
171.	Sewing Machines, Commercial and Industrial Type, Retail Sales and Repairing			
172.	Sign Fabrication			
173.	Slip Covers, Custom Manufacturing			
174.	Soaps, Detergent Bleach Manufacturing			
175.	Soaps, Wholesale and Storage			
176.	Special School or Training Institution not offering curriculum of general instruction comparable to public schools			
177.	Spices, Wholesale and Storage			
178.	Spraying Supplies, Equipment Yard			
179.	Storage Warehouse			
180.	Storage Yards, Bulk Material			
181.	Storage Yards, Equipment			
182.	Surgical Supplies, Wholesale			
183.	Tile Manufacturing Decorative			
184.	Tile Manufacturing, Structural			
185.	Tobacco, Wholesale and Storage			
186.	Tombstones, Sales and Display			
187.	Tools and Hardware, Manufacturing			
188.	Tools, Wholesale and Distribution			
189.	Tractors, Retail Sales, Display			

Permitted Uses		Conditions/Limitations	
190.	Trailers and Storage Containers, Outdoor		
191.	Trailers, Assembly and Manufacturing		
192.	Venetian Blinds, Custom Manufacturing and Cleaning		
193.	Water Based or Water Emulsion Type Paint Only, Manufacturing		
194.	Water or Mineral, Drinking or Curative, Bottling and Distribution		
195.	Water Softening Equipment, Service and Repairs		
196.	Welding Shop		
197.	Welding, Equipment and Supplies Storage		
198.	Well Drilling, Equipment		
199.	Window Display Installations, Studio and Shops		
200.	Window Glass Installation Shops		
201.	Wines, Storage and Wholesale		
202.	Wireless Communication Facility	Wireless communication facilities must adhere to the standards for disguised or concealed facilities as set forth within the City of Phoenix Zoning Ordinance.	
203.	Wood Products, Manufacturing Bulk		

G. Development Standards

To protect surrounding neighborhoods and preserve the public welfare, development standards are herein established for yard, height, landscaping, outdoor storage, signage, and general overall development requirements to provide an appropriate transition between industrial and residential uses.

1. Building Setbacks

Perimeter property line building setbacks shall be in accordance with **Figure 2**, **Concept Exhibit**.

2. Building Height

Maximum building heights shall be in accordance with **Figure 2**, **Concept Exhibit**. Additional height up to eighty (80) feet may be granted with a Use Permit and public hearing process, per the City of Phoenix's Zoning Ordinance process, along Van Buren Street. **Note:** The current zoning on the property (R-5) allows up to forty-eight (48) feet. Higher buildings can serve to protect residential homes from traffic noise from the surrounding streets and the future freeway. Moreover, the need for flexibility in building heights from forty-eight (48) feet along Fillmore Street up to a maximum of eighty (80) feet may be necessary for a future development project that may require additional height to operate their equipment successfully. The additional height allowance and location on the site shall be determined via the use permitting and public hearing process. However, the maximum building height of eighty (80) feet shall be no closer than two-hundred (200) feet from the residential zoned properties along Fillmore Street.

It is the intent of this provision of the PUD to express the maximum building height as a measurement of feet and not as an expression of total number of stories. Any stepback provision defined within the City of Phoenix Zoning Ordinance is not applicable to development within this PUD. Height standards shall be measured in accordance with the defined term for building height provided within the Phoenix Zoning Ordinance.

3. <u>Perimeter Landscape Setbacks</u>

Perimeter landscape buffer setbacks shall be in accordance with Figure 2, Concept Exhibit.

The Perimeter Landscape Buffer will set the tone for the development's appearance from the public's vantage point as well as from adjacent properties, and provide a sense of edge in order to define property boundaries. An appropriate mix of canopy trees, groundcovers and shrubs provided between street and sidewalk, and between the sidewalk and parking or building areas, can create an attractive, comfortable pedestrian environment. Landscaped berms and undulating landforms used in conjunction with vegetation are encouraged to provide both visual interest and screening of employee parking and maneuvering areas.

The following standards shall apply:

- (1) Landscaping within perimeter landscape buffer areas shall incorporate an appropriate mix of shade trees along all property lines.
- (2) Trees shall be spaced at twenty (20) feet on center average with five (5) shrubs per tree and a minimum fifty percent (50%) groundcover.
- (3) A mix of tree sizes shall be used along Fillmore Street and adjacent to those areas with a residential zoning district. These areas should contain a mix of; two (2) inch caliper trees fifty percent (50%); three (3) inch caliper trees fifty percent (50%) (in accordance with the Arizona Nurseryman's Association Standards).
- (4) A mix of tree sizes shall be used along Van Buren Street. These areas should contain a mix of; two (2) inch caliper trees fifty percent (50%); three (3) inch caliper trees twenty-five percent (25%), and four (4) inch

caliper trees twenty-five percent (25%) (in accordance with the Arizona Nurseryman's Association Standards).

4. Fillmore Street

Street Corner and Landscaping.

The southwest corner of Fillmore Street and 59th Avenue corner shall be designed to create a visually enhanced sense of arrival for the residents living north of the PUD.

Landscape treatments shall be comprised of mature specimen trees (2 inch caliper or greater) and dense mass plantings of flowering shrubs, groundcover, and accent plantings at this corner. (See **Figure 7**, Street Corner Landscaping Enhancement Exhibit.)

The following additional landscape standards shall apply to this corner:

- (1) The Landscape treatments at this corner shall be a minimum of sixhundred (600) square feet of landscape area with a minimum depth dimension along Fillmore Street of thirty (30) feet.
- (2) Turf may also be used at this location.

A minimum thirty (30) foot wide landscape setback shall be provided the full length of Fillmore Street for the benefit of the residents living north of the PUD.

Figure 7: Street Corner Landscaping Enhancement Exhibit.



5. Landscape Adjacent to the Main Building Office - Public Entrances

Foundation landscape areas shall be incorporated at the main office public entrances in order to soften the vertical planes of structures and create comfortable space for pedestrians and employees. Appropriately selected tree species will be important for these areas in order to prevent growth from interfering with structures. An appropriate mix of evergreen and flowering shrubs and groundcover shall be used. Main public office entrances shall be treated with flowering shrubs, potted accent plants and shade trees where possible. Landscape areas will allow for the placement of shade trees, which in turn will provide sun and heat protection to those building facades and windows, contributing to energy efficiency and building sustainability.

The following standards shall apply:

- (1) A minimum three (3) foot wide by five (5) foot long landscape planter or planter box shall be provided on both sides of the main public office entrance.
- (2) A mix of tree sizes, shrubs, and flowering plants may be used in this area to provide visual and interest relief.
- (3) A minimum of one (1) tree at two (2) inch caliper and five (5) shrubs/flowering plants (five (5) gal) per landscape area.
- (4) Turf may be used in replace of shrubs.

6. Parking Lot Landscaping

Designated surface employee/vistor parking areas shall provide for landscaping. Landscape islands shall be dispersed throughout the parking areas to provide sufficient shade cover and be sized accordingly. Landscaping located within parking lots helps in reducing the heat island effect and provides refuge from intense heat and sunlight for the parked vehicles. This landscaping also provides "green" space within the parking fields to break up the expanses of asphalt and concrete.

The following standards shall apply:

- (1) Provide a minimum of 5% of landscaping within the interior (exclusive of perimeter landscaping) designated surface employee parking lot area.
- (2) Parking islands shall be at the ends of each row of parking and approximately every one-hundred-ten (110) feet in between.
- (3) Trees selected for parking islands shall be of the same species and selected to provide shade.
- (4) Trees used in parking islands shall be a minimum of two (2) inch caliper in accordance with the Arizona Nurseryman's Association Standards.
- (5) Trees and shrubs shall be included at one (1) tree and five (5) shrubs (five (5) gal) per parking island row.

7. <u>Retention Basin Landscape Area</u>

Improved retention basin landscape areas shall be incorporated into the site development of the project when adjacent and visible to Fillmore Street. It is the

intent of this PUD to encourage the development of these spaces to create interesting arrangements of shrub and groundcover plantings for those living north of the PUD. In providing these elements, the retention basin landscape areas will promote a pleasant environment. The landscaping in these areas shall be designed so that the plant material has the opportunity to use the storm water runoff to supplement the irrigation system and provide groundwater recharge. Limited use of turf may be used in the bottom of basins where appropriate, otherwise fractured granite rip rap or river rock should be placed in the low water areas to hide unsightly dirt and oils from storm water runoff.

The following standards shall apply:

- (1) Retention basin landscape areas will be owned, managed and maintained by a common association formed to address all common areas and facilities within this PUD, unless all of the property is owned by the same entity.
- (2) Landscaping within/surrounding retention basin areas shall incorporate an appropriate mix of shade trees. However, the basin area drainage system shall not be impacted by landscaping materials (i.e., groundcovers, etc.) and shall be designed appropriately to minimize impact, maintain a visually pleasing environment, and minimize long-term maintenance issues.
- (3) Trees and shrubs shall be included at minimum of one (1) tree at two (2) inch caliper and five (5) shrubs per five-hundred (500) square feet of landscape area.
- (4) Turf may be used in select locations within retention basin areas.

8. Landscape Sustainability

Sustainable landscape and irrigation design practices shall be considered. A minimum of three (3) of the six (6) items described below shall be implemented within the overall development or in each phase as developed.

- (1) Capture gray water discharge from developments facilities and re-use for landscape irrigation.
- (2) Utilize "Smart" irrigation control systems.
- (3) Utilize efficient drip irrigation technology.
- (4) Locate plant material in or near storm water drainage swales or basins to maximize water benefit for landscape areas.
- (5) Use low water use plant material.
- (6) Provide slope stabilizing plant material where appropriate to limit erosion.

9. Off-Street Parking & Loading Standards

Refer to the Off-Street Parking and Loading Standards of the Phoenix Zoning Ordinance for the required parking and loading standards.

A one (1) foot non-vehicular access easement will be required at the time of the final plat for those parcels abutting Fillmore Street to protect the residents north from truck and vehicular traffic exiting and entering this PUD.

10. <u>Shade</u>

Designated surface employee/visitor parking areas shall provide a minimum of fifteen percent (15%) shade cover through a combination of shade trees and/or shade canopies.

11. Lighting Standards

To promote safety and continuity in design of the fixtures as well as the color and intensity of light, this PUD shall comply with lighting standards as defined within the Phoenix Zoning Ordinance except as modified below.

- a) <u>Outdoor Storage/Trailer or Freight Storage/Storage Containers/Dock</u> <u>Areas.</u>
 - Shall utilize metal halide luminaires, mounted at a height not to exceed twenty-five (25) feet, except that poles installed within thirty (30) feet of the PUD boundary shall not exceed eighteen (18) feet in height. Building mounted luminaires shall not exceed fourteen (14) feet in height.
 - (2) Provide a photometric analysis at the time of building permits that shall demonstrate the lighting design will not produce lighting levels that exceed 1-foot candle at the PUD boundary.
 - (3) Exterior lighting within thirty (30) feet of residentially zoned properties shall be fully shielded.

12. <u>Walls and Screening</u>

- a) A three (3) foot high solid wall shall screen designated surface employee/visitor parking areas from street frontages or a combination of solid wall and shrubbery.
- b) Combination solid wall and view fencing may be allowed to screen designated surface employee/visitor parking areas along street frontages.
 - (1) A maximum of six (6) foot high, which may have a solid base a minimum of three (3) feet above finished grade, with the upper portion open to allow visibility, such as with wrought iron.
 - (2) View fencing shall vary every four-hundred (400) lineal feet to visually reflect a meandering or staggered appearance. Design features should be used to break up the appearance of a long, straight fence. Such design features may include planters, pilasters, use of different block, texture, integral color, or dense landscaping adjacent to the wall or fence.
- c) An eight (8) foot high solid screen wall shall be utilized to screen outdoor storage areas, trailer or freight storage areas, storage containers, and dock areas from view along street frontages. (Refer to Figure 8, Screen Wall Detail.)
 - (1) The eight (8) foot high solid screen wall shall vary every fourhundred (400) lineal feet to visually reflect a meandering or staggered appearance. Design features should be used to break

up the appearance of a long, straight fence. Such design features may include planters, pilasters, use of different block, texture, integral color, or dense landscaping adjacent to the wall.

- d) If there is an existing six (6) foot solid block wall along an exterior property line separating two (2) properties then said wall may remain or it may be rebuilt up to a maximum of eight (8) feet in height. If there is no wall along an exterior property line separating two (2) properties then a solid block wall shall be installed up to a maximum of eight (8) feet in height.
- e) Retaining walls may be required and shall comply with the regulations applicable to retaining walls as described in the Phoenix Zoning Ordinance.



Figure 8, Screen Wall Detail

13. <u>Sign Standards</u>

a) Signage Purpose and Intent

Ensure that all uses have adequate signs for individual project identity and regulatory signage needs. The sign regulations within the *Northwest Corner of 59th Avenue & Van Buren Street – Industrial PUD* will follow the City of Phoenix Zoning Ordinance standards for signage.

However, the sign standards for monument signage included within this PUD are intended to replace and supersede the comparable sign standards contained within the City of Phoenix Zoning Ordinance. In the event of a conflict between a provision of the PUD and a provision of the City of Phoenix Zoning Ordinance, the PUD prevails. In the event that the PUD is silent regarding a specific sign standard, the City of Phoenix Zoning Ordinance prevails (i.e., the A-1, Light Industrial Zoning District).

Note: If in the future, via text amendment to add the 202 freeway at this location in Phoenix, off-premise structures are permitted to locate by the 202 freeway then off-premise structures may be located within this PUD. However, any proposed off-premise signs shall comply with the City of Phoenix Zoning Ordinance sign standards and spacing requirements for off-premise signs within PUD's.

b) Monument Sign Standards

No monument signs shall be allowed along Fillmore Street.

One (1) sign on a multiple-use parcel or for the entire development shall include center identification (i.e. the name of the center), if any.

Freeway signs shall only be located on property with freeway frontage and must be within three hundred (300) feet of, and oriented to 202 freeway. No setback is required and may include electronic message centers for a freeway sign.

Sign area for the freeway pylon sign is calculated based on the total area of the freeway signage excluding the pylon structure and architectural embellishments. (See **Table 3**.)

Type of Sign	Number of Signs & Spacing	Maximum Height	Maximum Area
Primary Sign	 1 sign permitted per 300 lineal feet of street frontage minimum of 1 regardless of street frontage 100 foot minimum spacing between signs 	16 feet	187 square feet
Primary Sign Freeway Frontage	 1 sign permitted per 300 lineal feet of street frontage minimum of 1 regardless of street frontage 100 foot minimum spacing between signs 	30 feet	187 square feet
Directional Sign	2 per driveway	6feet	7 square feet

Table 3: Sign Standards

Type of	Number of Signs	Maximum	Maximum Area
Sign	& Spacing	Height	
Freeway Pylon Sign	 3 maximum 100 foot minimum spacing between signs 	70 feet	1,122 square feet. (A maximum of 672 square feet of the 1,122 square feet may be allowed for an Electronic Message Display* for users within the PUD development.)

- * Electronic message displays shall be permitted upon satisfying the following minimum conditions:
 - a. The sign copy shall change only through an immediate transition of the sign copy or message that does not have the appearance of moving text or images. The sign copy shall not use flashing, intermittent or moving lights or produce the optical illusion of movement. No part of the sign structure or cabinet may move or rotate, except as otherwise permitted by these sign provisions.
 - b. The sign copy shall be displayed for a minimum of eight (8) seconds.
 - c. The sign shall include photocell technology to control and vary the intensity of lighting depending on the amount of ambient light that is present (e.g. daytime, nighttime, cloudy conditions). The intensity of the lighting shall not exceed three hundred (300) nits from dusk until 11 PM.
 - d. From 11:00 p.m. until sunrise, illumination shall be extinguished and shall be equipped with an automatic device to ensure compliance.

H. Sustainability Guidelines

The "Leadership in Energy and Environmental Design" (LEED) Green Building Rating System is presently a voluntary standard for developing high-performance sustainable buildings. Developers of this PUD property are strongly encouraged to incorporate current LEED standards within the project.

This PUD encourages sustainability principles through the implementation of at least three (3) of the following Design Review Presumptions, or other sustainability principles as approved by the City.

- a) Building designs should respond to the harsh southwest climate by incorporating materials and design methods suitable for the region.
- b) The orientation of buildings should recognize the value of human comfort zones, and surrounding buildings with appropriate landscaping and abundant shading.
- c) Orientation of buildings and fenestration design should maximize solar benefits while minimizing the negative impacts of heat gain.
- d) Recognizing that sustainability methods are continually improving and evolving over time, incorporate state-of-the-art sustainability methods and products as the project is phased.

- e) Incorporate solar collection technologies for providing and storing energy as well as heated water systems for individual buildings.
- f) Design to reduce project energy loads by addressing passive design elements (i.e. daylight, natural ventilation, materials solar mass properties) and active design elements (i.e. environmental conditioning methods, radiant heating and cooling, shared building systems).
- g) Design for effective water usage and conservation methods in buildings by using low flow plumbing fixtures using minimal amounts of potable water.
- h) Design for effective use of energy efficient appliances and HVAC systems by demonstrating reductions in on-going power consumption.
- i) Design for the capture of gray water discharge from buildings for reuse for landscape irrigation.
- j) Incorporate "Smart" irrigation control systems into the design and development of the development phase.
- k) Use roofing materials that specify a high Solar Reflectance Index for a minimum of 75% of the roof surface area.
- (I)) Use paints and coatings on the interior of the building (i.e., inside of the weatherproofing system and applied on-site) that comply with the following criteria as applicable to the project scope 1:
 - (1) Architectural paints and coatings applied to interior walls and ceilings must not exceed the volatile organic compound (VOC) content limits established in Green Seal Standard GS-11, Paints, 1st Edition, May 20, 1993.
 - (2) Anti-corrosive and anti-rust paints applied to interior ferrous metal substrates must not exceed the VOC content limit of 250 g/L established in Green Seal Standard GC-03, Anti-Corrosive Paints, 2nd Edition, January 7, 1997.
 - (3) Clear wood finishes, floor coatings, stains, primers, and shellacs applied to interior elements must not exceed the VOC content limits established in South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

I. Infrastructure Standards

a) <u>Circulation System</u>

The Northwest Corner of 59th Avenue & Van Buren Street PUD has great access from the major streets in the area.

Improvements to Van Buren Street and 59th Avenue were completed by the City. Driveways will be provided from these streets only and no driveways will be allowed along Fillmore Street. A one (1) foot non-vehicular access easement will be required.

- (1) <u>Van Buren Street</u>. Van Buren Street is a fully improved and dedicated major arterial road with three (3) westbound and two (2) eastbound travel lanes.
- (2) <u>59th Avenue</u>: 59th Avenue is an improved major arterial road with two (2) northbound and southbound travel lanes. Per the City of Phoenix Streets Department, no right-of-way dedication is needed along 59th Avenue unless a future driveway entrance requires a decel/right turn lane, which

may require additional right-of-way. Future driveways would need to fit between the existing 69 KV poles.

- (3) <u>Fillmore Street</u>: Fillmore Street is planned as a local street with one (1) travel lane in each direction and appropriate right-of-way dedication and improvements will be made, pursuant to the City of Phoenix Streets Department.
- b) <u>Grading and Drainage</u>

The site is vacant and all finished floor elevations will be established a minimum of one foot above the high adjacent water surface elevations. The proposed development will provide retention for the one hundred year, two hour storm event per the City of Phoenix design standards. Retention for the proposed development will be provided on individual parcels and/or within common retention areas servicing large portions of the development or the overall PUD. The common retention areas will be limited to a maximum of three feet of water depth and graded with maximum side slope ratio of 3:1. Retention areas provided on individual parcels may be either by retention basins or underground storage. All retention facilities will be drained within thirty-six hours of a major storm event as required by the City of Phoenix Drainage Design Manual.

c) <u>Water and Sewer Service</u>

- (1) <u>Wastewater Design</u>: The Northwest Corner of 59th Avenue & Van Buren Street PUD development may need to extend the sewer mains along Van Buren Street to provide sanitary service to the property. The option to utilize the existing sewer main along Fillmore Street shall be reviewed and approved by the Planning & Development Department in order to avoid disturbing the existing improvements made to Van Buren Street.
- (2) <u>Water Design</u>: The Northwest Corner of 59th Avenue & Van Buren Street PUD development will utilize existing water mains in the area to provide water service connection to the property The PUD is located within the City of Phoenix water service area.

Appendices

Appendix A: PUD Area Legal Description and Alta Survey

LEGAL DESCRIPTION OF PROPERTY

PARCEL NO. 1:

THE EAST THREE-QUARTERS OF THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN;

EXCEPT ANY PORTION LYING WITHIN THAT CERTAIN DITCH KNOWN AS A SUB-LATERAL TO LATERAL 14 OF THE GRAND CANAL AS THE SAID SUB-LATERAL IS NOW LOCATED AND CONSTRUCTED THROUGH, OVER AND ACROSS THE NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, THE CENTER LINE OF THE SAID SUB-LATERAL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF THE SAID SECTION 6, AND USING AS A BASE THE EAST BOUNDARY LINE OF THE SAID SECTION, (THE SAID EAST BOUNDARY LINE HAVING A BEARING OF NORTH 0 DEGREES 40 MINUTES EAST, BASED ON A MAGNETIC BEARING OF NORTH 13 DEGREES 42 MINUTES WEST);

THENCE NORTH 00 DEGREES 40 MINUTES EAST, A DISTANCE OF 1323.00 FEET;

THENCE NORTH 89 DEGREES 20 MINUTES WEST, A DISTANCE OF 26.00 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 88 DEGREES 56 MINUTES WEST, A DISTANCE OF 574.00 FEET;

THENCE SOUTH 89 DEGREES 00 MINUTES WEST, A DISTANCE OF 600.00 FEET;

THENCE SOUTH 89 DEGREES 40 MINUTES WEST, A DISTANCE OF 440.00 FEET;

THENCE SOUTH 89 DEGREES 15 MINUTES WEST, A DISTANCE OF 1001.00 FEET TO A POINT IN THE NORTH AND SOUTH MID-SECTION LINE OF THE SAID SECTION 6, FROM WHICH POINT THE SOUTH QUARTER CORNER OF THE SAID SECTION BEARS SOUTH 00 DEGREES 26 MINUTES WEST, A DISTANCE OF 1309.60 FEET; AND

EXCEPT THAT PORTION CONVEYED TO THE CITY OF PHOENIX, IN INSTRUMENT NUMBERS 2005-215472 OF OFFICIAL RECORDS AND 2005-0215474 OF OFFICIAL RECORDS; DESCRIBED AS FOLLOWS:

THE NORTH 22.00 FEET OF THE SOUTH 55.00 FEET OF THE EAST THREE-QUARTERS OF THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

PARCEL NO. 2:

THE EAST HALF OF THE WEST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER AND THE WEST QUARTER OF THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST, GILA AND SALT RIVER BASE AND MERIDIAN;

EXCEPT ANY PORTION LYING WITHIN THAT CERTAIN DITCH KNOWN AS A SUB-LATERAL TO LATERAL 14 OF THE GRAND CANAL AS THE SAID SUB-LATERAL IS NOW LOCATED AND CONSTRUCTED THROUGH, OVER AND ACROSS THE NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, THE CENTER LINE OF THE SAID SUB-LATERAL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF THE SAID SECTION 6, AND USING AS A BASE THE EAST BOUNDARY LINE OF THE SAID SECTION, (THE SAID EAST BOUNDARY LINE HAVING A BEARING OF NORTH 0 DEGREES 40 MINUTES EAST, BASED ON A MAGNETIC BEARING OF NORTH 13 DEGREES 42 MINUTES WEST);

THENCE NORTH 00 DEGREES 40 MINUTES EAST, A DISTANCE OF 1323.00 FEET;

THENCE NORTH 89 DEGREES 20 MINUTES WEST, A DISTANCE OF 26.00 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 88 DEGREES 56 MINUTES WEST, A DISTANCE OF 574.00 FEET;

THENCE SOUTH 89 DEGREES 00 MINUTES WEST, A DISTANCE OF 600.00 FEET;

THENCE SOUTH 89 DEGREES 40 MINUTES WEST, A DISTANCE OF 440.00 FEET;

THENCE SOUTH 89 DEGREES 15 MINUTES WEST, A DISTANCE OF 1001.00 FEET TO A POINT IN THE NORTH AND SOUTH MID-SECTION LINE OF THE SAID SECTION 6, FROM WHICH POINT THE SOUTH QUARTER CORNER OF THE SAID SECTION BEARS SOUTH 00 DEGREES 26 MINUTES WEST, A DISTANCE OF 1309.60 FEET; AND

EXCEPT THAT PORTION CONVEYED TO THE CITY OF PHOENIX, IN INSTRUMENT NUMBER 2005-0190120 OF OFFICIAL RECORDS, DESCRIBED AS FOLLOWS:

THE NORTH 22.00 FEET OF THE SOUTH 55.00 FEET OF THE EAST HALF OF THE WEST HALF AND THE WEST QUARTER OF THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

PARCEL NO. 3:

THE WEST HALF OF THE WEST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER AND THE EAST QUARTER OF THE EAST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA;

EXCEPT ANY PORTION LYING WITHIN THAT CERTAIN DITCH KNOWN AS A SUB-LATERAL TO LATERAL 14 OF THE GRAND CANAL AS THE SAID SUB-LATERAL IS NOW LOCATED AND CONSTRUCTED THROUGH, OVER AND ACROSS THE NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, THE CENTER LINE OF THE SAID SUB-LATERAL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF THE SAID SECTION 6, AND USING AS A BASE THE EAST BOUNDARY LINE OF THE SAID SECTION, (THE SAID EAST BOUNDARY LINE HAVING A BEARING OF NORTH 0 DEGREES 40 MINUTES EAST, BASED ON A MAGNETIC BEARING OF NORTH 13 DEGREES 42 MINUTES WEST);

THENCE NORTH 00 DEGREES 40 MINUTES EAST, A DISTANCE OF 1323.00 FEET;

THENCE NORTH 89 DEGREES 20 MINUTES WEST, A DISTANCE OF 26.00 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 88 DEGREES 56 MINUTES WEST, A DISTANCE OF 574.00 FEET;

THENCE SOUTH 89 DEGREES 00 MINUTES WEST, A DISTANCE OF 600.00 FEET;

THENCE SOUTH 89 DEGREES 40 MINUTES WEST, A DISTANCE OF 440.00 FEET;

THENCE SOUTH 89 DEGREES 15 MINUTES WEST, A DISTANCE OF 1001.00 FEET TO A POINT IN THE NORTH AND SOUTH MID-SECTION LINE OF THE SAID SECTION 6, FROM WHICH POINT THE SOUTH QUARTER CORNER OF THE SAID SECTION BEARS SOUTH 00 DEGREES 26 MINUTES WEST, A DISTANCE OF 1309.60 FEET; AND

EXCEPT THAT PORTION CONVEYED TO THE CITY OF PHOENIX, IN INSTRUMENT NUMBER 2004-078521 OF OFFICIAL RECORDS DESCRIBED AS FOLLOWS:

THE NORTH 22.00 FEET OF THE SOUTH 55.00 FEET OF THE WEST HALF OF THE WEST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA; AND EXCEPT THAT PORTION CONVEY TO THE CITY OF PHOENIX, IN INSTRUMENT NUMBER 2004-0078519 OF OFFICIAL RECORDS, DESCRIBED AS FOLLOWS:

THE NORTH 17.00 FEET OF THE SOUTH 50.00 FEET OF THE EAST QUARTER OF THE EAST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 6, AND THE NORTH 5.00 FEET OF THE SOUTH 55.00 FEET OF THE EAST QUARTER OF THE EAST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

PARCEL NO. 4:

A PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A BRASS CAP FLUSH WITH THE PAVEMENT MARKING THE SOUTHWEST CORNER OF SAID SOUTHEAST QUARTER FROM WHICH A BRASS CAP IN A HAND HOLE MARKING THE SOUTHEAST CORNER OF SAID SECTION 6 BEARS SOUTH 89 DEGREES 59 MINUTES 43 SECONDS EAST, A DISTANCE OF 1311.64 FEET; THENCE NORTH 00 DEGREES 01 MINUTES 34 SECONDS WEST, A DISTANCE OF 55.00 FEET ALONG THE WEST LINE OF SAID SOUTHEAST QUARTER TO THE POINT OF BEGINNING;

THENCE CONTINUING NORTH 00 DEGREES 01 MINUTES 34 SECONDS WEST, A DISTANCE OF 1266.67 FEET ALONG SAID WEST LINE TO THE NORTHWEST CORNER OF SAID SOUTHEAST QUARTER;

THENCE NORTH 89 DEGREES 41 MINUTES 33 SECONDS EAST, ALONG THE NORTH LINE OF SAID SOUTHEAST QUARTER, A DISTANCE OF 1158.89 FEET;

THENCE SOUTH 76 DEGREES 14 MINUTES 39 SECONDS EAST, A DISTANCE OF 102.88 FEET TO THE SOUTH LINE OF THE NORTH 25.00 FEET OF SAID SOUTHEAST QUARTER;

THENCE NORTH 89 DEGREES 41 MINUTES 33 SECONDS EAST ALONG SAID SOUTH LINE, A DISTANCE OF 5.00 FEET;

THENCE SOUTH 45 DEGREES 04 MINUTES 31 SECONDS EAST, A DISTANCE OF 16.90 FEET TO THE WEST LINE OF THE EAST 40.00 FEET OF SAID SOUTHEAST QUARTER;

THENCE SOUTH 00 DEGREES 09 MINUTES 25 SECONDS WEST ALONG SAID WEST LINE, A DISTANCE OF 426.52 FEET;

THENCE SOUTH 01 DEGREES 18 MINUTES 10 SECONDS WEST, A DISTANCE OF 220.52 FEET;

THENCE NORTH 89 DEGREES 50 MINUTES 35 SECONDS WEST, A DISTANCE OF 230.00 FEET;

THENCE SOUTH 00 DEGREES 09 MINUTES 25 SECONDS WEST, A DISTANCE OF 63.25 FEET;

THENCE NORTH 89 DEGREES 59 MINUTES 43 SECONDS WEST, A DISTANCE OF 669.92 FEET;

THENCE SOUTH 00 DEGREES 09 MINUTES 25 SECONDS WEST, A DISTANCE OF 527.00 FEET TO THE NORTH LINE OF THE SOUTH 55.00 FEET OF SAID SOUTHEAST QUARTER AND THE NORTHERLY RIGHT-OF-WAY LINE OF VAN BUREN STREET AS DESCRIBED IN DOCUMENT NOS. 2004-1521174 AND 2004-1521176, RECORDS OF MARICOPA COUNTY;

THENCE NORTH 89 DEGREES 59 MINUTES 43 SECONDS WEST, A DISTANCE OF 367.48 FEET ALONG SAID NORTHERLY RIGHT-OF-WAY LINE TO THE POINT OF BEGINNING.

PARCEL NO. 5:

THAT PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 6 FROM WHICH THE SOUTHEAST CORNER OF SAID SECTION 6 BEARS SOUTH 89 DEGREES 59 MINUTES 43 SECONDS EAST, 1311.64 FEET;

THENCE SOUTH 89 DEGREES 59 MINUTES 43 SECONDS EAST, 367.31 FEET;

THENCE NORTH 00 DEGREES 09 MINUTES 25 SECONDS EAST, 55.00 FEET TO THE NORTH LINE OF THE SOUTH 55.00 FEET OF SAID SECTION 6 AND THE POINT OF BEGINNING;

THENCE CONTINUING NORTH 00 DEGREES 09 MINUTES 25 SECONDS EAST, 527.00 FEET;

THENCE SOUTH 89 DEGREES 59 MINUTES 43 SECONDS EAST, 669.92 FEET;

THENCE SOUTH 00 DEGREES 09 MINUTES 25 SECONDS WEST, 186.75 FEET;

THENCE SOUTH 89 DEGREES 50 MINUTES 35 SECONDS EAST, 225.00 FEET TO THE EAST RIGHT OF WAY LINE OF 59TH AVENUE;

THENCE SOUTH 01 DEGREES 18 MINUTES 10 SECONDS WEST, 79.54 FEET ALONG SAID EAST RIGHT OF WAY LINE TO THE WEST LINE OF THE EAST 51.00 FEET OF SAID SECTION 6;

THENCE SOUTH 00 DEGREES 09 MINUTES 25 SECONDS WEST, 228.14 FEET ALONG SAID WEST LINE;

THENCE SOUTH 45 DEGREES 11 MINUTES 36 SECONDS WEST, 49.66 FEET TO THE NORTH LINE OF THE SOUTH 52.00 FEET OF SAID SECTION 6;

THENCE NORTH 89 DEGREES 59 MINUTES 43 SECONDS WEST, 40.01 FEET ALONG SAID NORTH LINE;

THENCE ALONG THE NORTHERLY RIGHT OF WAY LINE OF VAN BUREN STREET AS DESCRIBED IN DOCUMENT NO. 2004-1521174 OF OFFICIAL RECORDS, RECORDS OF MARICOPA COUNTY, ARIZONA, THE FOLLOWING 6 COURSES:

THENCE NORTH 77 DEGREES 27 MINUTES 59 SECONDS WEST, 46.10 FEET;

THENCE NORTH 89 DEGREES 59 MINUTES 43 SECONDS WEST, 70.00 FEET;

THENCE SOUTH 72 DEGREES 28 MINUTES 45 SECONDS WEST, 39.85 FEET;

THENCE NORTH 89 DEGREES 59 MINUTES 43 SECONDS WEST, 522.00 FEET;

THENCE NORTH 00 DEGREES 00 MINUTES 17 SECONDS EAST, 5.00 FEET;

THENCE NORTH 89 DEGREES 59 MINUTES 43 SECONDS WEST, 143.18 FEET TO THE POINT OF BEGINNING.

ALTA/ACSM LAND TITLE SURVEY

wetter, eve

0 50 100 SCALE IN FEET

NWC 59th Avenue & Van Buren Street Traffic Impact Study

Prepared for: Wentworth Property Company, LLC

January 31, 2013

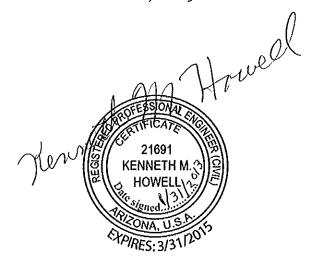


1904 East Medlock Drive Phoenix, Arizona 85016 Phone: 602-277-4224 Fax: 602-277-4228 Email: task@taskeng.net_www.taskeng.net

Northwest Corner of 59th Avenue & Van Buren Street Traffic Impact Study

Phoenix, Arizona

Prepared for: Wentworth Property Company, LLC 2701 East Camelback Road, Suite 185 Phoenix, AZ 85016



By:

TASK Engineering Company, Inc. 1904 East Medlock Drive Phoenix, AZ 85016

> Phone: (602) 277-4224 Fax: (602) 277-4228

> > January 31, 2013

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INTRODUCTION

This traffic study analyzes the traffic impacts of a proposed distribution center on the northwest corner of 59th Avenue and Van Buren Street in Phoenix, Arizona. The proposed site is projected to have about 1,162,000 square feet of distribution space. Figure 1 identifies the site's location.

The purposes of this study are:

- 1. To review driveway locations, access, and lane configurations on adjacent roadways,
- 2. To evaluate the traffic impact of the site on the area roadway network, and
- 3. To prepare a traffic impact study for submittal to the City of Phoenix.

This study present projects traffic conditions for opening year (2015) with current roadways, and long range (2030) with completion of the South Mountain Freeway. For comparison, traffic conditions are analyzed for the No Build condition. This analysis shows that the existing and planned road system can serve the site at good levels of service with the proposed recommendations.

It is expected that only the first phase of the development will be open by 2015, but road design must accommodate traffic for the entire development. Therefore traffic conditions were analyzed for background traffic plus complete development for 2015 and 2030. Site access driveways and nearby intersections were analyzed with existing roadways for 2015. For 2030, completion of the South Mountain Freeway was assumed.

The conclusions of this report are listed in the final section, RECOMMENDATIONS. Appendix A contains summaries of individual capacity analyses. The following sections detail the methodology used to reach the report's conclusions.

DESCRIPTION OF PROPOSED DEVELOPMENT

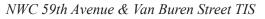
The site plan for the site is shown on Figure 2. The site is ± 82.9 gross acres in the northwest quadrant of 59th Avenue and Van Buren Street. It stretches about half a mile along Van Buren Street, and about a quarter of a mile along 59th Avenue. It is bordered on the north by Fillmore Street. There is no street right of way along the west boundary of the site.

There are two residential lots that are outparcels along 59th Avenue. To the east of 59th Avenue is the planned right of way of the future South Mountain Freeway. This is currently agricultural land. To the north of the site are residential neighborhoods. West and south of the site are various smaller commercial and industrial concerns.

The distribution center will likely be built in two phases. The first phase consists of the eastern ± 40 acres, and is planned for 540,000 square feet of distribution center space. The second phase consists of the western ± 40 acres, which will contain a planned $\pm 625,000$ square foot distribution center.



https://maps.google.com





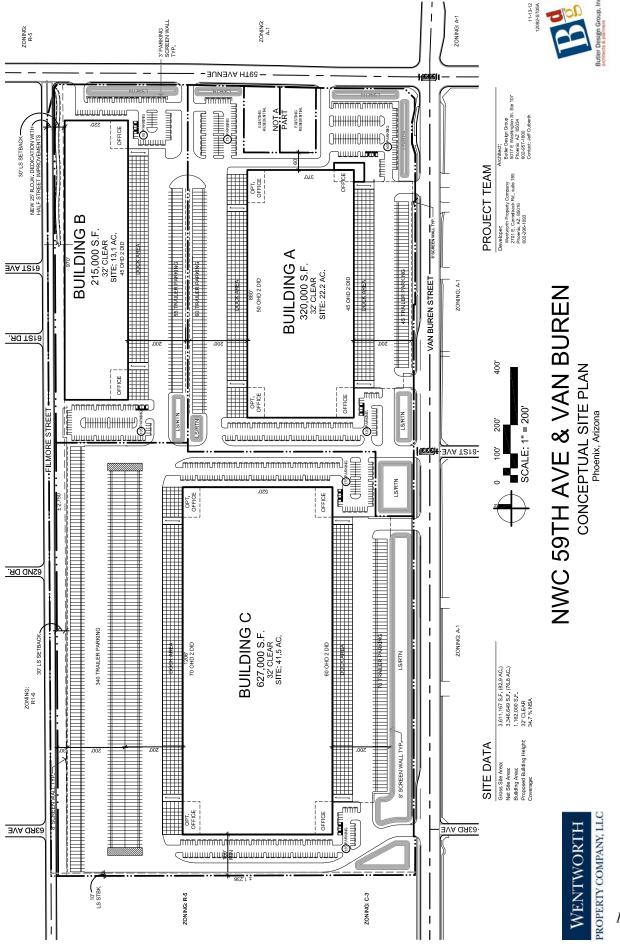


Figure 2 Page 6 1/2013

DESCRIPTION OF ROAD NETWORK

Figure 1 shows the roadway network serving the site. The future South Mountain Freeway is programmed east of 59th Avenue and will have a half diamond interchange at Van Buren Street with ramps to and from the south.

There is currently a traffic signal at 59th Avenue/Van Buren Street. Fifty-Ninth Avenue has two southbound, three northbound lanes and a center turn lane. The outside southbound lane becomes a right turn only lane at Van Buren Street. Van Buren Street has three westbound lanes, two eastbound lanes and a center turn lane. Fifty-Ninth Avenue has a diamond interchange at I-10, about three-quarter miles north of Van Buren Street.

There is a traffic signal at 59th Avenue/Roosevelt Street, one-half mile north of Van Buren Street. Roosevelt Street provides access to and from the residential neighborhoods north of the proposed distribution center. Roosevelt Street has one lane in each direction and left turn pockets at 59th Avenue.

Fillmore Street north of the site and McKinley Street about 1/8th mile north of Fillmore Street are two-lane local streets that intersect 59th Avenue at STOP sign controlled intersections. These streets also provide access to the neighborhood north of the site.

Van Buren Street has local street connections to 61st Avenue and 63rd Avenue south of the site. Neither street extends north of Van Buren Street through the site. Both streets end at a cul-de-sac south of Van Buren Street.

In addition to the 59th Avenue interchange, 51st Avenue located one mile east, and 67th Avenue located one mile west also provide full access to I-10.

The South Mountain Freeway (SR 202) is currently in the Environmental Review process. A draft Environmental Impact Report is anticipated to be published in Spring 2013, and this alignment is expected to be the preferred alternative. Appendix F includes the current design concept for this section of the freeway.

The current ramps from 59th Avenue to I-10 will be removed to allow a system interchange between I-10 and the South Mountain Freeway. Instead, collector-distributor roads will connect 59th Avenue to the 67th Avenue interchange and the 51st Avenue interchange. This will allow continued good access to I-10 east and west.

Fifty Ninth Avenue will remain on its existing alignment from Roosevelt Street north. At some point south of Roosevelt Street, 59th Avenue will transition into two one-way frontage roads, with the southbound frontage road on the current alignment and the northbound frontage road veering under the elevated freeway to the east side of the freeway.

It is recommended that Fillmore Street be allowed eastbound to northbound left turns onto 59th Avenue, and northbound to westbound left turn lanes from 59th Avenue in order to maintain current access into the residential neighborhoods north of the site. This can be achieved if the 59th Avenue-frontage road transition begins at or south of Fillmore Street. This issue was discussed with ADOT Right of Way staff and engineering consultants on December 4, 2012. ADOT indicated a favorable response to design concepts allowing the maintenance of full access at 59th Avenue/Fillmore Street.

The South Mountain Freeway will overpass Van Buren Street. The east and west frontage roads will connect to on and off ramps located south of Van Buren Street to form a half-diamond interchange. The east and west ramp junctions are both anticipated to be signalized.

Following publication of the Environmental Impact Report, final freeway design will begin. This allows right of way acquisition to begin sometime in 2014. The section of the South Mountain Freeway from I-10 south to Broadway Road is anticipated to be built first. If everything goes well, this section can be expected to open in 2017 at best. The South Mountain Freeway can be expected to be fully complete to a connection to I-10 East and the San Tan Freeway in 2021 at best. All of these estimated dates are of course subject to events.

Van Buren Street west of 59th Avenue will be widened, perhaps needing additional right of way. Current right of way on Van Buren Street west of 59th Avenue is about 102 feet wide. The anticipated right of way taking for the freeway may extend up to 600 to 750 feet and then taper to the existing road cross section and right of way.

Current Arizona Department of Transportation (ADOT) access control policy prohibits any access within 300 feet of the end of the curb return of the freeway ramp junction. This will apply to both Van Buren Street and 59th Avenue. The remainder of the 59th Avenue frontage will allow right-in, right-out access to the site, subject to good design practices. On Van Buren Street, the first access right-in, right-out access should be at least 300 feet west of the 59th Avenue curb return, and preferably further. Full unsignalized access will have to be at least 700 feet west of 59th Avenue because of the median on Van Buren Street for eastbound to northbound left turn storage. Signalized access on Van Buren Street should be no closer than 61st Avenue to avoid operations conflict with the signals at the freeway interchange.

The existing 63^{rd} Avenue Bridge over I-10 will be removed in the planned construction because it is not wide enough for the new lanes and collector-distributor roads to go under the bridge. It may be rebuilt. Access to the distribution center is not affected by the presence or absence of the 63^{rd} Avenue Bridge. Moreover neighborhood access is not worse if the bridge is removed and is improved if the bridge is rebuilt.

After construction of the Loop 202, South Mountain Freeway, access to residential neighborhoods along 59th Avenue would remain unchanged from I-10 to McKinley Street. Access at Villa Street, Pierce Street and Fillmore Street would be modified to right-in, right-out along the 59th Avenue southbound frontage road. This provides access

in both directions along 59th Avenue, especially with the traffic signal at Roosevelt Street. These modifications to the neighborhood street network, as a result of the freeway, will help to reduce cut through traffic along Fillmore Street and other local streets and insulate the neighborhood from extraneous traffic. The proposed schematic design for this intersection is shown on Figure 3.

Sixty-Third Avenue between Fillmore Street and Van Buren Street does not exist today and is not recommended to be built. If built, this connection would encourage cut-through traffic through the residential neighborhood north of the distribution center. It would attract truck traffic from other nearby truck facilities, and it would result in access problems for the site. It is recommended that 63rd Avenue not be built from Fillmore Street to Van Buren Street and that the north leg of 63rd Avenue/Van Buren Street serve the proposed distribution center only.

During construction of SR 202, the intention is to maintain at least partial access open on Van Buren Street. At some time it may be necessary to reduce the number of lanes while building the freeway bridge over Van Buren Street. It will be easier to keep 59th Avenue open during construction, but at some point the ramps to and from I-10 will be closed. For that time period, access from the site to I-10 will have to be along Van Buren Street to 51st Avenue and 67th Avenue.

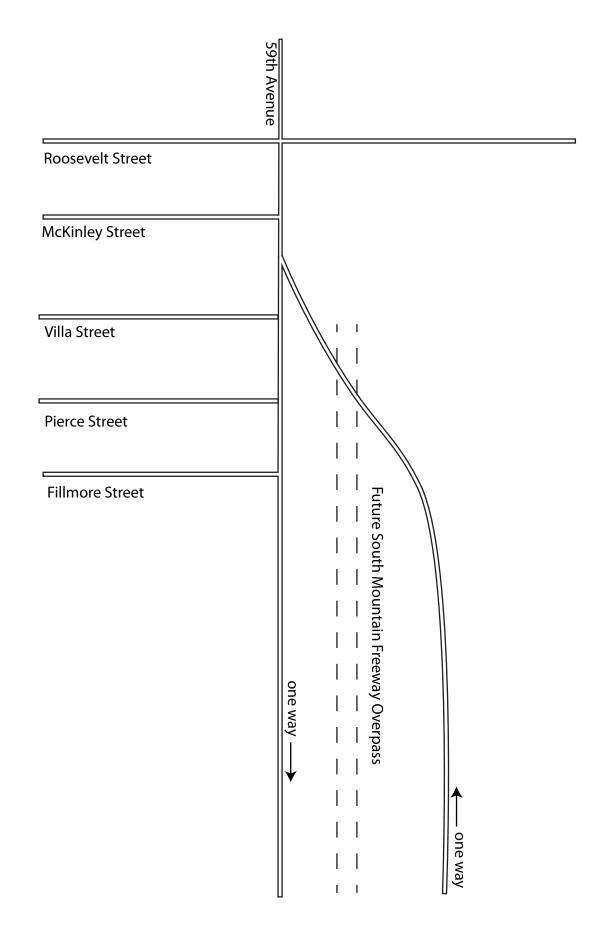
Access from the site is proposed by way of major full-movement accesses onto Van Buren Street aligning with 61^{st} Avenue and 63^{rd} Avenue. In order to allow truck to leave the site, a traffic-actuated traffic signal is anticipated at 61^{st} Avenue. These are supplemented by right in, right out accesses located ± 500 feet west of the centerline of 59^{th} Avenue and ± 300 feet west of the centerline of 61^{st} Avenue. Two accesses are anticipated on 59^{th} Avenue, located ± 450 feet north of the centerline of Van Buren Street and ± 475 feet south of Fillmore Street.

There will be no access between the site and Fillmore Street to avoid mixing truck and residential traffic. There will be a 25-foot half-street right of way dedication and construction of the south half of a local street on Fillmore Street adjacent to the site.

BACKGROUND TRAFFIC

Background traffic is the amount of traffic that would exist on study area roads if the proposed development was not built. United Civil Group took traffic counts at the following locations on weekdays during November and December 2012:

- All Approaches and Departures from 59th Avenue/Van Buren Street
- 67th Avenue North of Van Buren Street
- Roosevelt Street West of 59th Avenue
- Fillmore Street West of 59th Avenue
- 63rd Avenue South of Van Buren Street





These are supplemented by counts from the Maricopa Association of Governments Transportation Data Management System

(<u>http://mag.ms2soft.com/tcds/tsearch.asp?loc=Mag&mod</u>=) at the following locations:

- Van Buren Street between 47th Avenue and 43rd Avenue (2011)
- 51st Avenue north of Van Buren Street (2011)
- 59th Avenue between I-10 and Van Buren Street (2011)

Manual turning movements from the above source were included for the following locations:

- 59th Avenue/Van Buren Street (2010)
- 67th Avenue/Van Buren Street (2010)

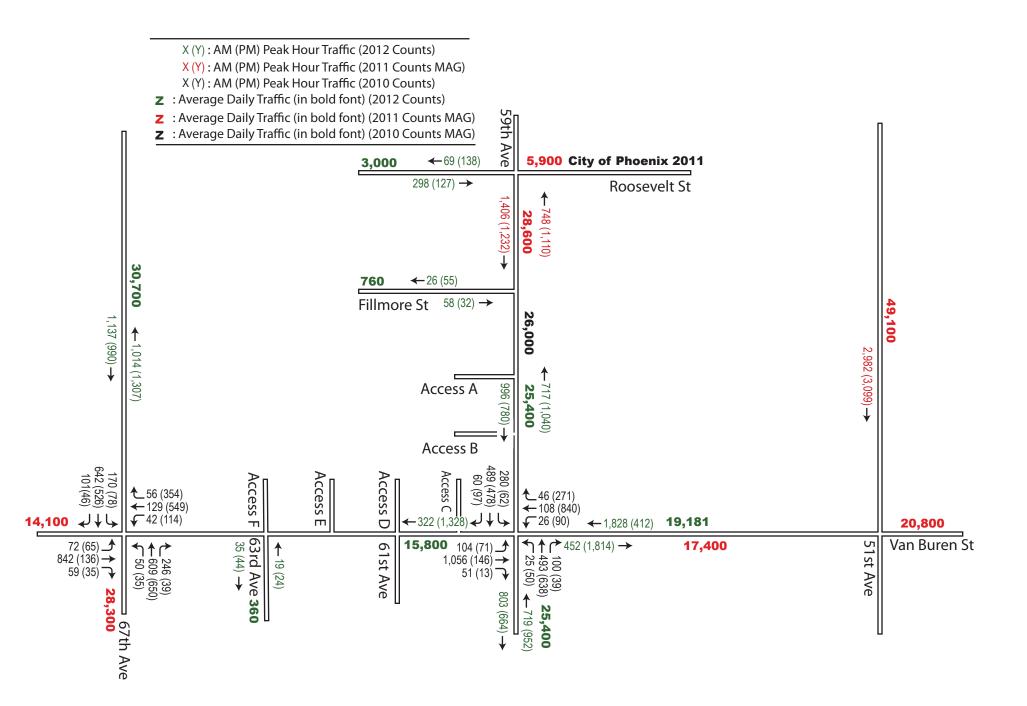
Existing traffic counts are summarized on Figure 4 and included in Appendix B. The traffic counts on Figure 4 are factored up to 2015, and converted to turning movements to represent opening year background traffic. The traffic volumes in Figure 4 are increased by 1.6 percent per year to obtain estimated 2015 background traffic.

The growth factor of 1.6 percent is taken from Phoenix Metro Area Population projections, medium series, by Arizona Department of Administration. These projections were updated December 7, 2012 and show a population estimate of 4,273,400 for 2012 and 4,478,700 for 2015.

For year 2030 background traffic, Average Daily Traffic forecasts prepared by Maricopa Association of Governments for a study of the southwest valley were used. These were prepared in August 2010 and include the South Mountain Freeway on the 59th Avenue alignment. They appear to be a reasonable representation of traffic volumes in this area with completion of the South Mountain Freeway. These projections are included in Appendix E.

These daily 2030 estimates were then converted into peak hour volumes by estimating eight percent of daily traffic in the AM peak and nine percent in the PM peak. Traffic by direction was split 60/40 with the peak directions being eastbound and northbound in the morning and westbound and southbound in the evenings. Traffic for local and collector streets is not included in the MAG forecasts. Roosevelt Street and Fillmore Street is assumed to be the same in 2030 as in 2015 because the area served by these streets is essentially built out. The cul de sac streets, 61^{st} Avenue and 63^{rd} Avenue are assumed to continue growing at 1.6 percent yearly on the assumption that the businesses on these streets will continue growing. Traffic estimates on 61^{st} Avenue south of Van Buren are the same as on 63^{rd} Avenue, because the streets are similar. Neither carries more than local street volumes.

Turns at major intersections were synthesized from AM and PM approach and departure volumes by a procedure that balances approach and departure volumes and minimizes the sum of the squared differences of input turn estimates and output turn estimates.



ENGINEERING

Figure 5 is an intersection key map of intersections with detailed peak hour turns. The resulting background traffic volumes are shown on Figures 6-1 through 6-3 for Year 2015 and Figures 7-1 through 7-3 for Year 2030. Year 2030 traffic is sometimes less than 2015 traffic because of a diversion of traffic onto the new freeway.

TRIP GENERATION

The next step in estimating traffic from the proposed development is to calculate the total estimated vehicle trips to and from the site on an average weekday after the site has been completely built out. This is called trip generation. Vehicle trips are estimated for a total average weekday and for AM and PM peak hours. *Trip Generation, Ninth Edition,* published by the Institute of Transportation Engineers (ITE) in 2012, was the source for the trip rates used in this study.

Table 1 estimates trip generation for Phase 1 and total site development. The equation for average daily trips was used to calculate the daily trip rate. The average rates for peak hour of adjacent street were used for the AM and PM peak hours.

The total site will generate an estimated 4,078 trip ends per day with 349 morning peak hour trips and 373 evening peak hour trips. Phase 1 of the site generates 2,101 daily trips. Table 1 presents the resulting trip generation for the development. The rows in Table 1 are explained below.

LUC is the Institute of Transportation Engineers (ITE) Land Use Code. It refers to the section of the ITE manual from which the trip rates were obtained.

Units specify the type of land used for generating trips.

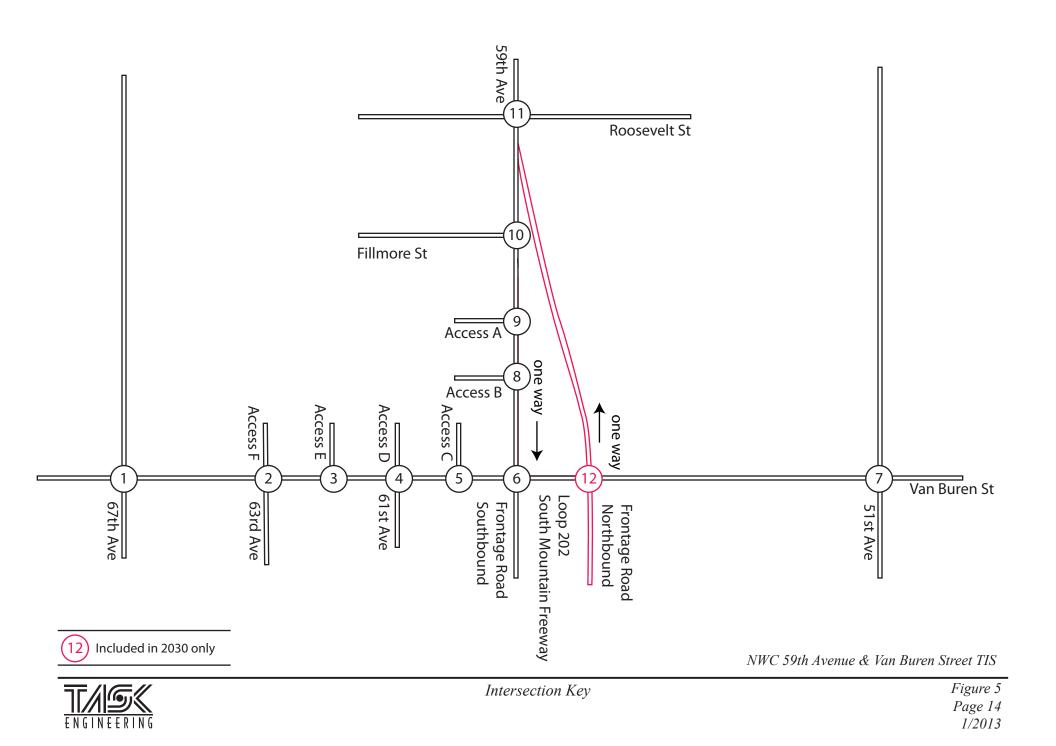
Amount is the amount of space in thousands of gross square feet (TGSF).

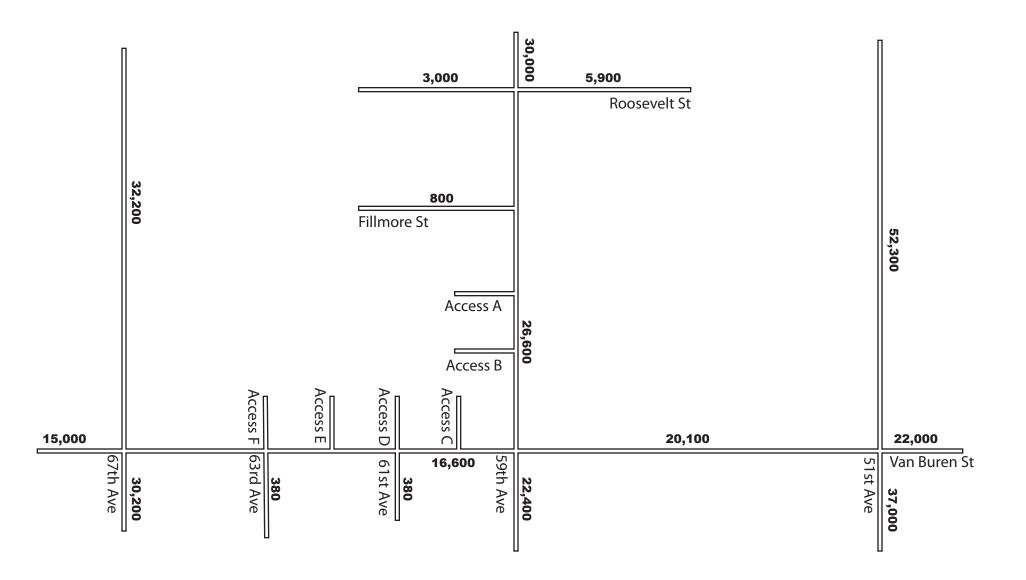
Rates present the number of daily, AM peak hour and PM peak hour vehicle trips to and from the subject land use per unit.

Percent In is the percentage of AM and PM vehicle trips arriving inbound at the land use. The remaining percent of trips are leaving outbound. For instance, 61 percent of AM peak hour trips are arriving at a commercial site, and the remaining 39 percent are leaving the complex. For daily trips, it is assumed that 50 percent are inbound trips and 50 percent are outbound trips.

Trips are the calculated number of trips. They are calculated as the amount times the rate times the percent inbound or outbound.

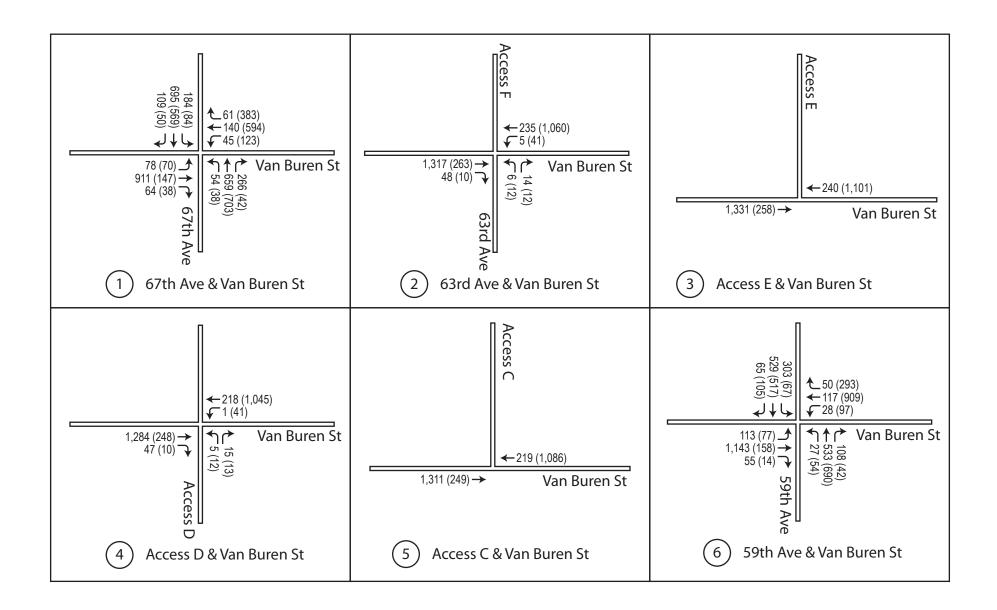
The ITE Trip Generation, Ninth Edition reports that about 20 percent of daily trips to distribution centers are truck (heavy duty vehicle) trips. Reasonably, truck trips represent a lower percent during morning and evening peak hours because these hours include many auto trips to and from work.





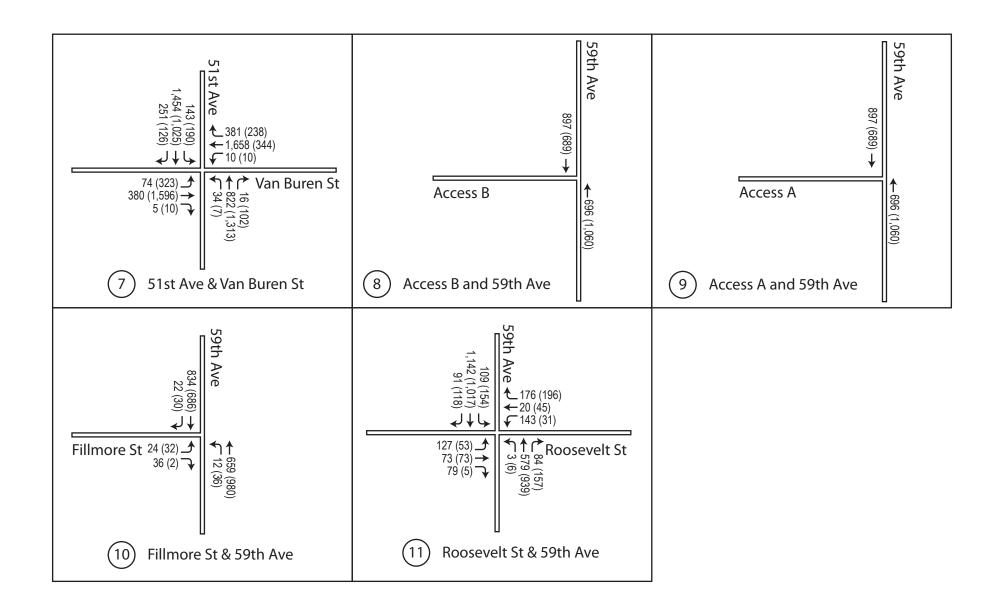
Z : Average Daily Traffic (in bold font)





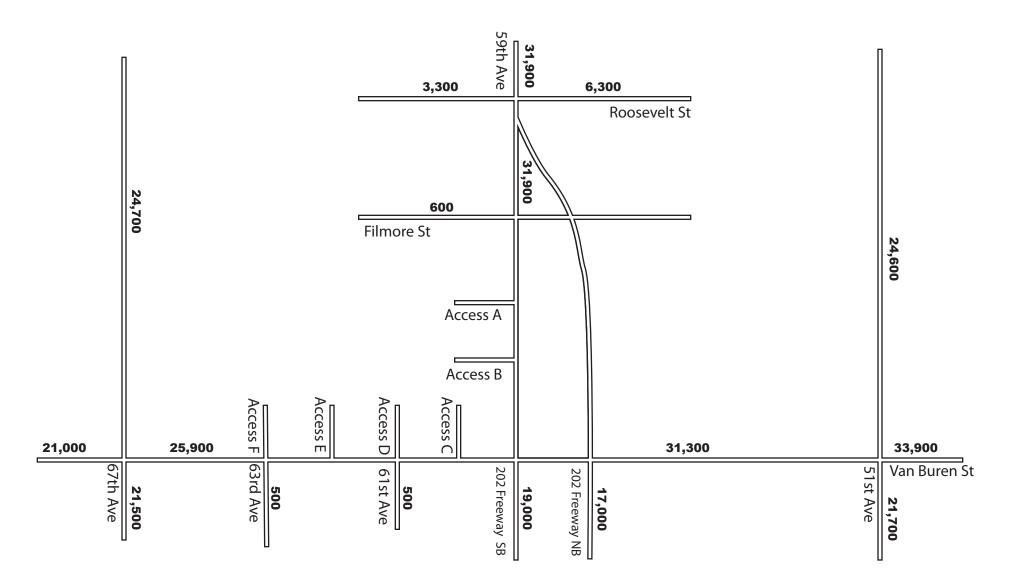
X (Y) : AM (PM) Peak Hour Traffic



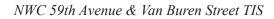


X (Y) : AM (PM) Peak Hour Traffic

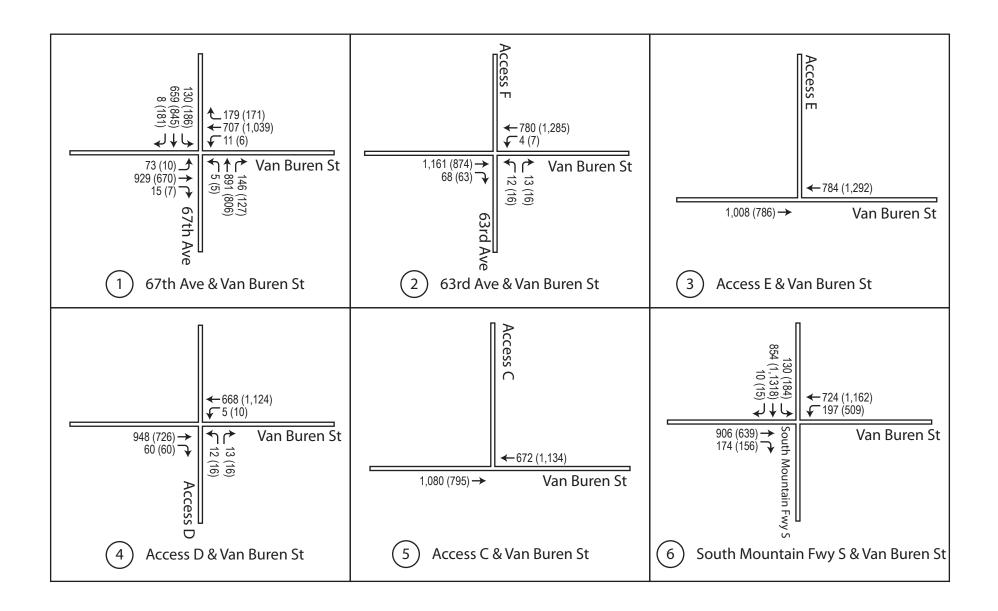




Z : Average Daily Traffic (in bold font)





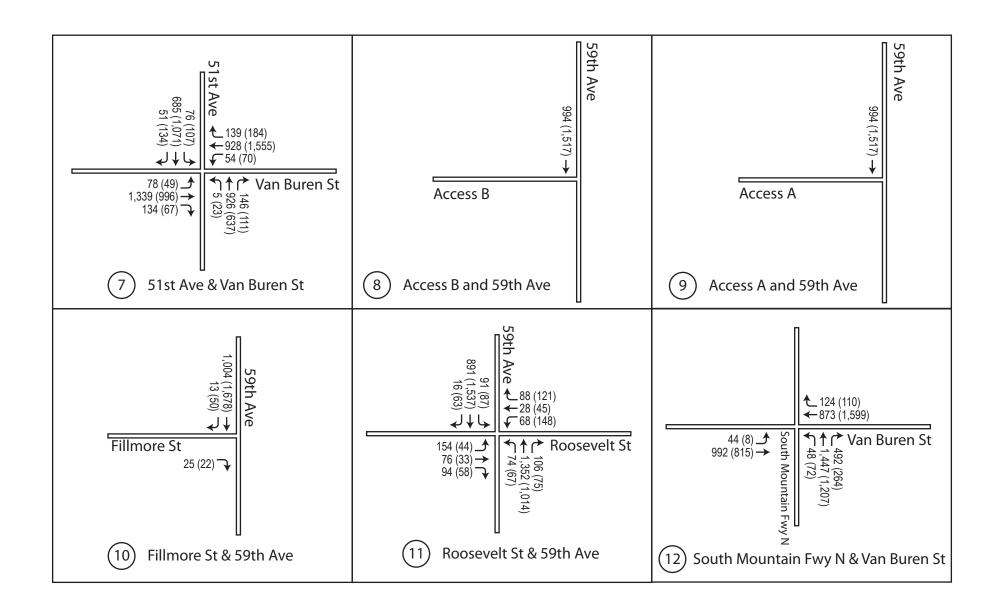


X (Y) : AM (PM) Peak Hour Traffic

NWC 59th Avenue & Van Buren Street TIS



Background Traffic (Year 2030)



X (Y) : AM (PM) Peak Hour Traffic



Phase 1 Total					
Land Use	Distribution	Distribution			
	Center	Center			
LUC	150	150			
Units	TGSF	TGSF			
Amount	540	1165			
Trips Rates					
Daily	3.89	3.50			
AM Peak Hour	0.30	0.30			
PM Peak Hour	0.32	0.32			
% Inbound					
AM Peak Hour	79%	79%			
PM Peak Hour	25%	25%			
Trips:					
Weekday	2,101	4,078			
AM Peak Hour Inbound	128	276			
AM Peak Hour Outbound	34	73			
Total AM Peak Hour	162	349			
PM Peak Hour Inbound	43	93			
PM Peak Hour Outbound	130	280			
Total PM Peak Hour	173	373			

Table 1					
Trip Generation					
NWC 59 th Avenue & Van Buren TIS					

A truck trip generation study conducted for the City of Fortuna, California in 2003 estimated AM and PM peak hour total vehicle and truck trip generation for "Heavy Warehouse". It found the truck trip rates for peak hours were about ten percent of total vehicle trip rates. The ten percent truck trips estimate is used for peak hour traffic flows to and from site entrances in the capacity and level of service analysis included in this report.

TRIP DISTRIBUTION

Trip distribution is the process of assigning a starting location for each inbound trip to the site and an ending location for each outbound trip. Daily, AM peak hour and PM peak hour trips are distributed separately.

There are several types of traffic to and from the distribution center: Major intercity trucks, distribution vehicles and work/service trips. Major intercity trucks will arrive and depart at all hours. Distribution vehicles will attempt to travel outside of peak hours to avoid congestion on roads and at the other end of their trip. Work/service trips are concentrated into the peak hours by the nature of typical work schedules.

There is little direct information on truck trips. The ITE *Trip Generation, Ninth Edition*, estimates that large trucks make up 20 percent of daily trips at Distribution Centers (Land Use Code 150). A major study of truck trips in Fortuna, California in the early 2000's estimated the truck trip generation rate at 0.30 trips per TGSF in the AM peak hour of site traffic, and it estimated the PM peak hour rate at 0.33 trips per TGSF. This is about ten percent of total peak hour traffic.

Based on this, it is estimated that the major intercity truck movement represents ten percent of peak and daily trips. Based on discussions with operators of such facilities, most of these trips will be going to and from I-10 west. Before construction of SR 202, the South Mountain Freeway, these trips will be to and from the I-10/59th Avenue interchange. After construction, the fastest way to I-10 west will be along Van Buren Street to 67th Avenue and hence to the I-10/67th Avenue interchange.

The remaining 90 percent of trips represents distribution, work and service trips. These are assumed to be distributed proportional to population in 2020 within 10 miles of the site. The major part of this traffic is to the east, which is assumed to split evenly between Van Buren Street and I-10 East. In 2015, traffic to I-10 East travels to the I-10/59th Avenue interchange and after construction of the South Mountain Freeway it is assumed that this traffic travels east to 51^{st} Avenue and then north to the I-10/51st Avenue interchange.

Note that after construction of the South Mountain Freeway, it will still be possible to travel north on 59th Avenue and then access I-10 east or west by distribution roads. This access is made more indirect because 59th Avenue adjacent to the site becomes a southbound frontage road. A small but unknown amount of site traffic may still use these routes, but for simplicity this study assumes that site traffic to and from I-10 will find it easier to divert to adjacent interchanges.

The resulting trip distribution percentages are shown in Table 2. Truck trip rates and population distribution by quadrant are found in Appendix D.

Street	2015	2020
67 th Avenue, North to I-10 West	0%	10%
59 th Avenue, North	57%	19%
51 st Avenue, North to I-10 East	0%	28%
Van Buren Street, East	28%	28%
59 th Avenue, South (South Mountain Freeway)	4%	4%
Van Buren Street, West	11%	11%
Total	100%	100%

 Table 2

 Trip Distribution

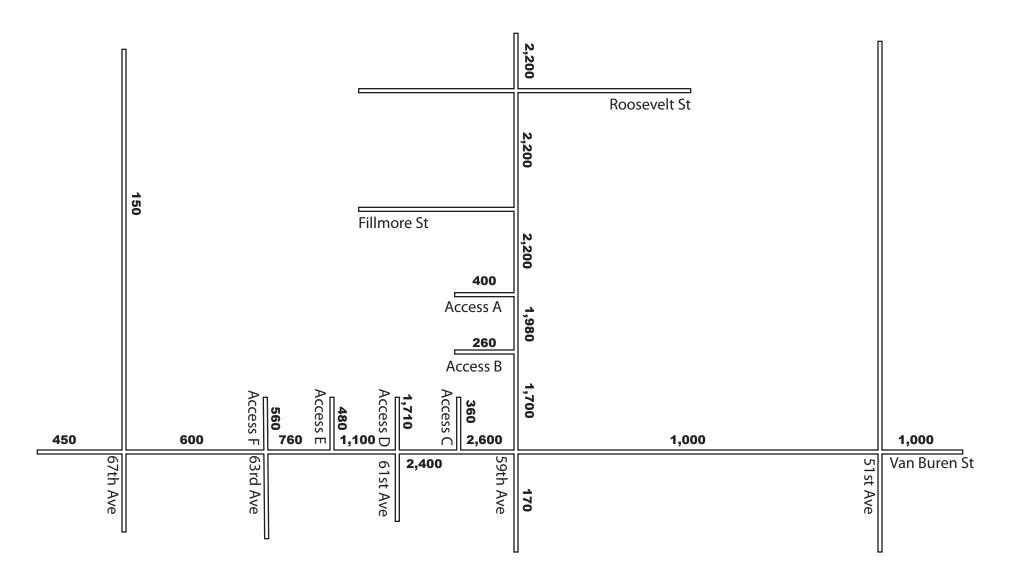
 NWC 50th Avenue/Van Buren Street TIS

SITE TRAFFIC ASSIGNMENT

The next step is to assign site traffic to specific routes. Assignments were prepared for AM and PM peak hours and daily traffic using the above trip distributions using a spreadsheet. The resulting average daily traffic, as well as AM and PM peak hour turning movements, is shown on Figures 8-1 through 8-3 for opening Year 2015 and Figures 9-1 through 9-3 for long range 2030 traffic after completion of the South Mountain Freeway.

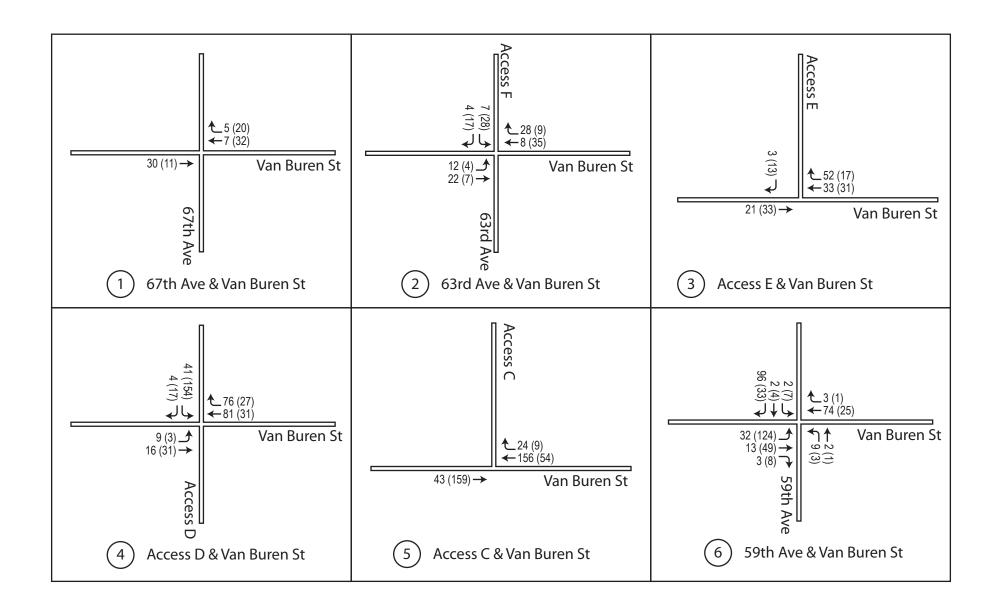
TOTAL TRAFFIC

Total traffic is the sum of site plus background traffic. The resulting total average daily traffic, as well as AM and PM peak hour turning movements, are shown on Figures 10-1 through 10-3 for Year 2015 with opening year site traffic, and Figures 11-1 through 11-3 for Year 2030 with completion of the South Mountain Freeway.



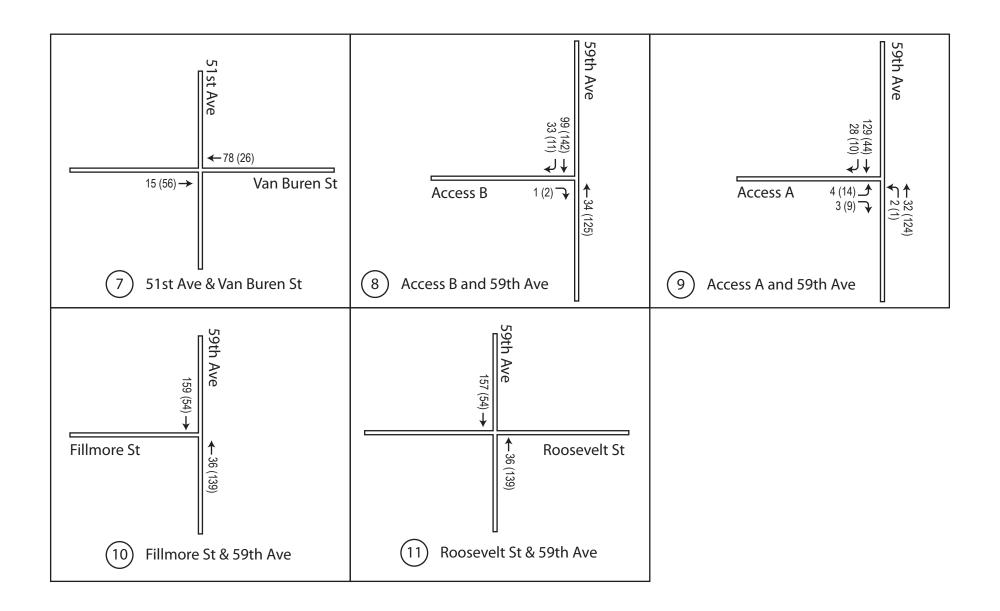
Z : Average Daily Traffic (in bold font)





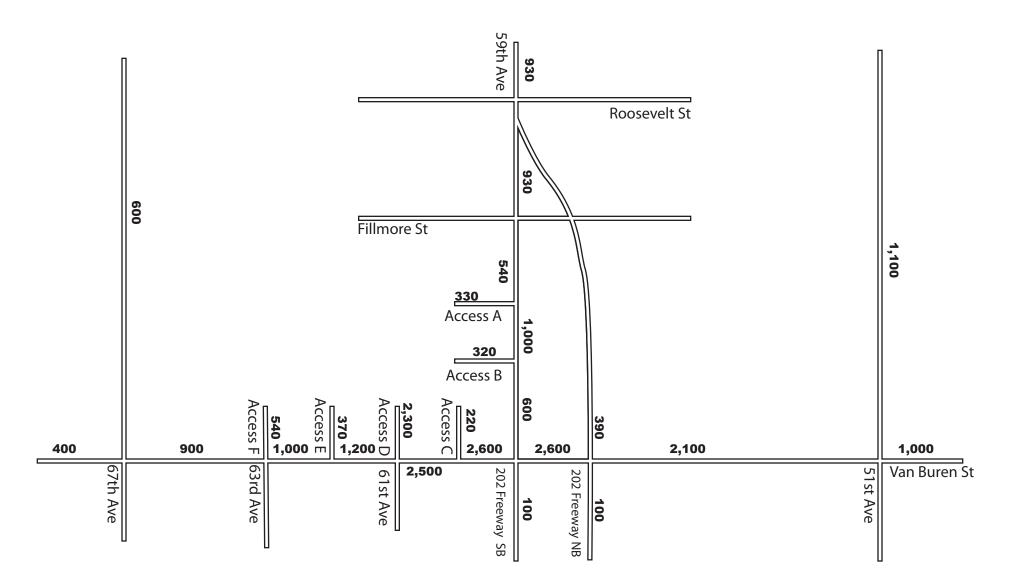
X (Y) : AM (PM) Peak Hour Traffic



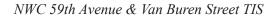


X (Y) : AM (PM) Peak Hour Traffic

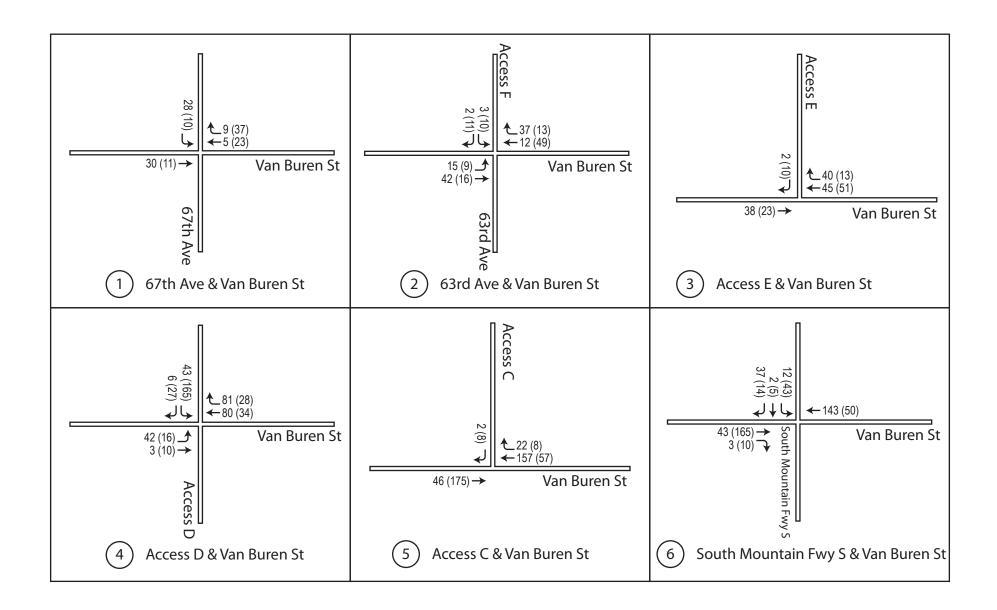




Z : Average Daily Traffic (in bold font)

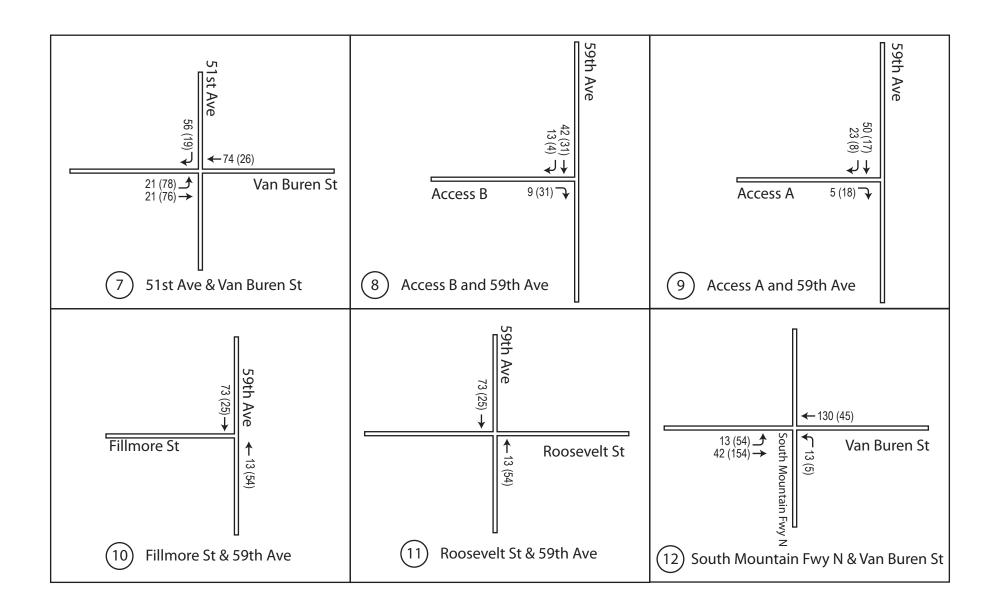






X (Y) : AM (PM) Peak Hour Traffic





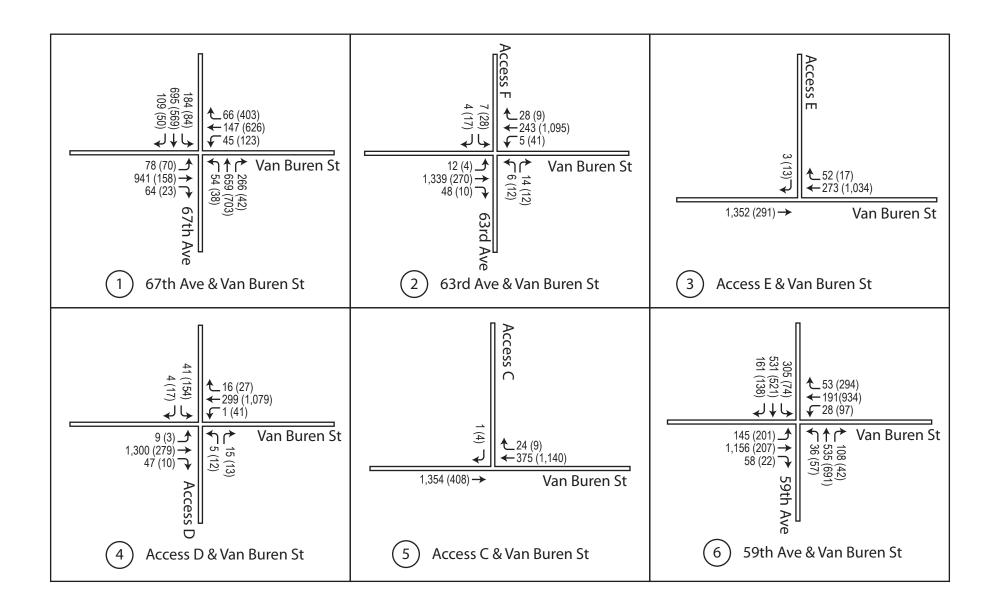
X (Y) : AM (PM) Peak Hour Traffic





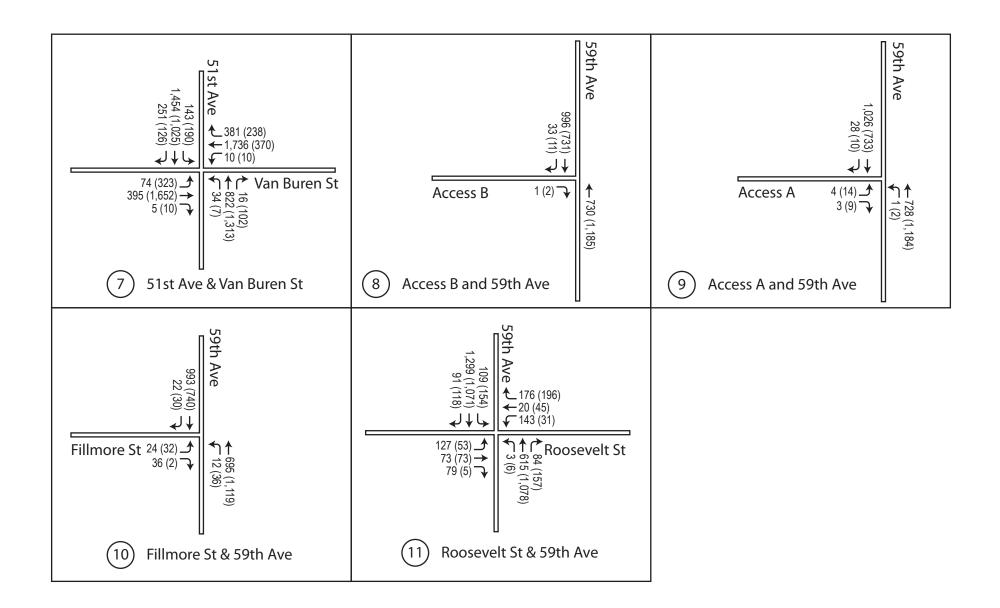
Z : Average Daily Traffic (in bold font)





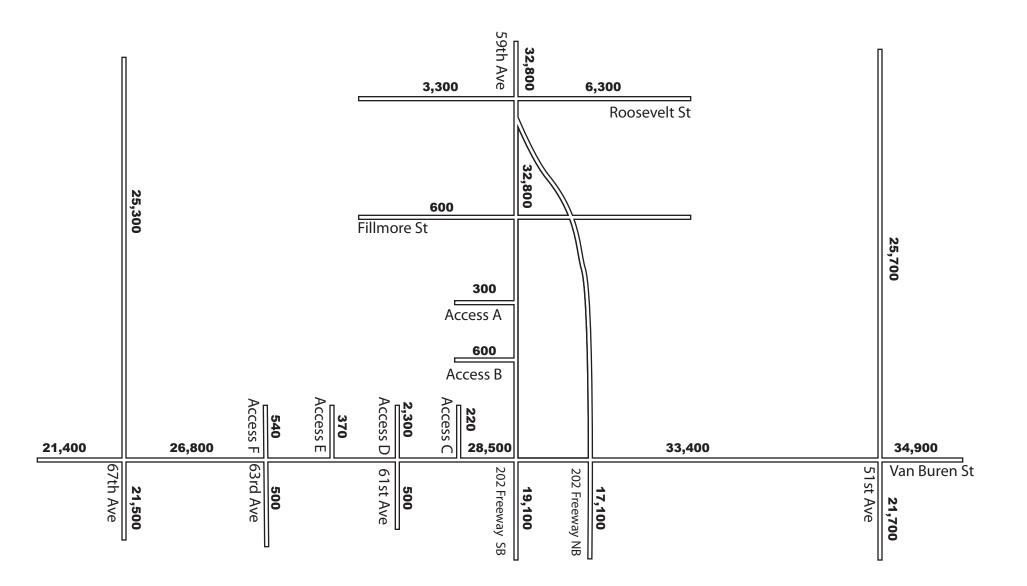
X (Y) : AM (PM) Peak Hour Traffic



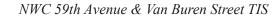


X (Y) : AM (PM) Peak Hour Traffic

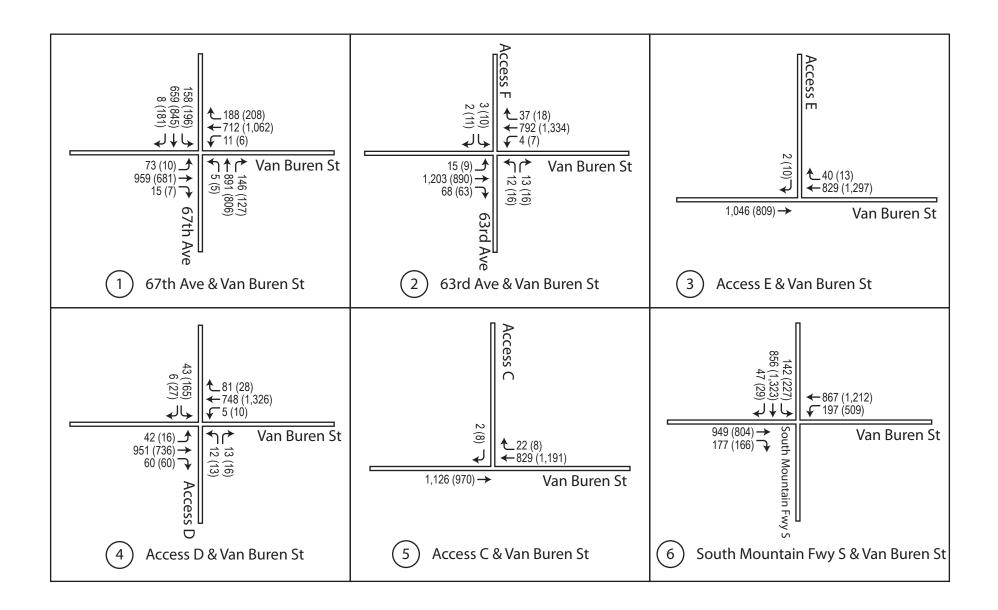




Z : Average Daily Traffic (in bold font)

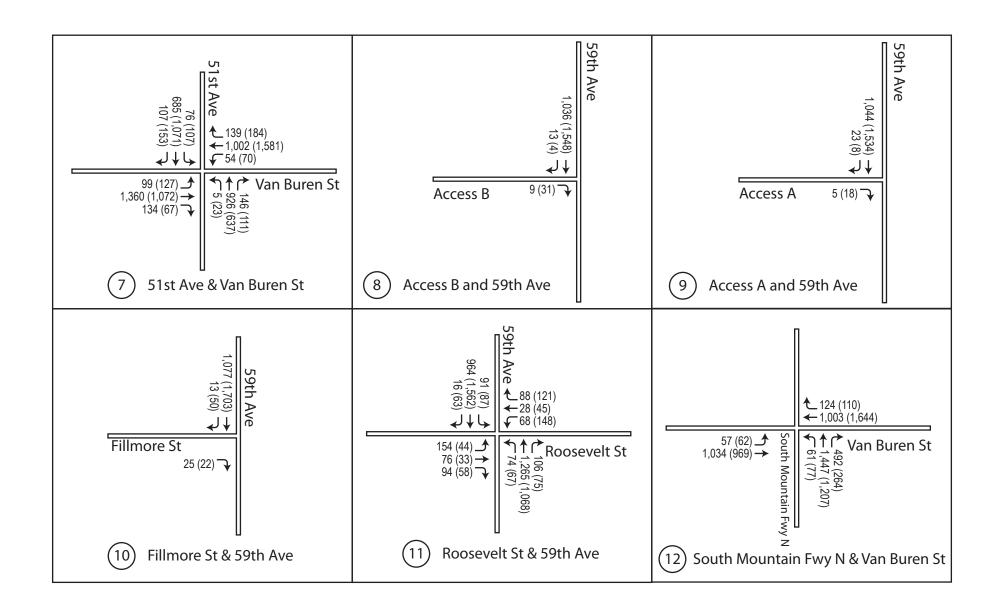






X (Y) : AM (PM) Peak Hour Traffic





X (Y) : AM (PM) Peak Hour Traffic



TRAFFIC ANALYSIS

The critical intersections were analyzed using the methodologies presented in the *Highway Capacity Manual*, and were evaluated using the *Highway Capacity Software* (HCS 2010). The 2010 HCS version was used for intersection analysis. Capacity analysis was completed for both AM and PM peak hours for Year 2015 and Year 2030 total traffic conditions. Additionally, analysis was completed for Year 2015 and Year 2030 no build conditions assuming that the proposed development was not built.

Unsignalized intersections were analyzed as STOP sign controlled intersections using the unsignalized intersection portion of the Highway Capacity Software. Sometimes, the level of service (LOS) of the most difficult turning movement was reported for unsignalized intersections at the access drives. Usually, this is the left turn from the minor street. The LOS for unsignalized intersections is reported in Table 3.

Signalized intersection analysis is based on control delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. The level of service (LOS) criteria for signalized intersection analysis is given in Table 4.

Table 3
Level of Service Criteria for
Unsignalized Intersections

NWC 59 th	Ave/Van Buren TIS
Level of Service	Control Delay (sec./veh.)
А	≤ 10.0
В	$> 10.0 \text{ and} \le 15.0$
С	> 15.0 and ≤ 25.0
D	> 25.0 and ≤ 35.0
Е	$> 35.0 \text{ and} \le 50.0$
F	>50.0

Source: *Highway Capacity Manual*, 2010, Transportation Research Board

 Table 4

 Level of Service Criteria

 for Signalized Intersections

 NWC 59th Ave/Van Buren TIS

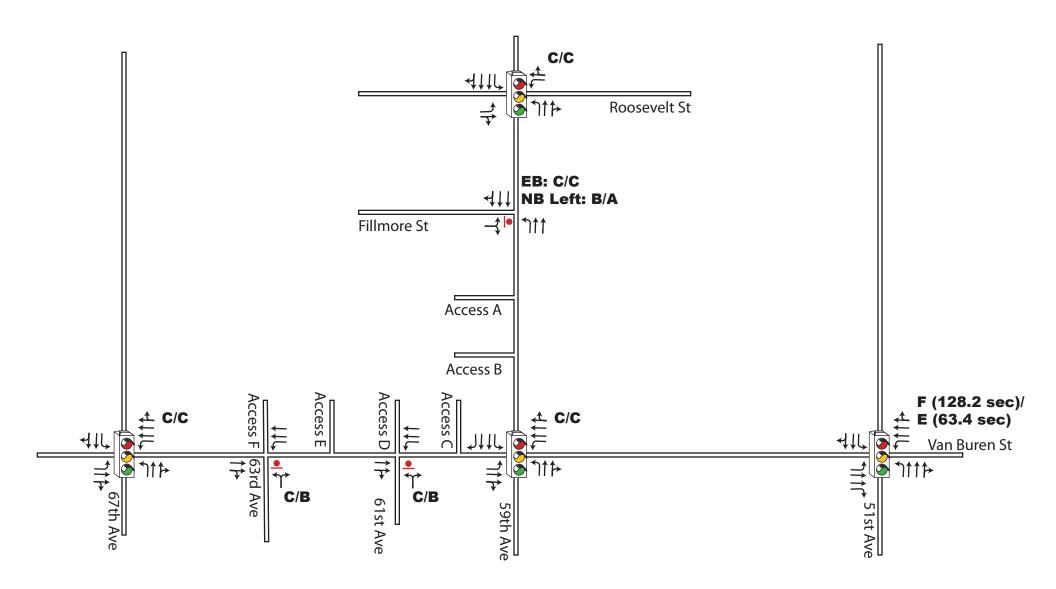
Level of	Control Delay
Service	(sec./veh.)
А	≤ 10.0
В	$> 10.0 \text{ and} \le 20.0$
С	> 20.0 and ≤ 35.0
D	$> 35.0 \text{ and} \le 55.0$
Е	$> 55.0 \text{ and } \le 80.0$
F	> 80.0

Source: *Highway Capacity Manual*, 2010, Transportation Research Board

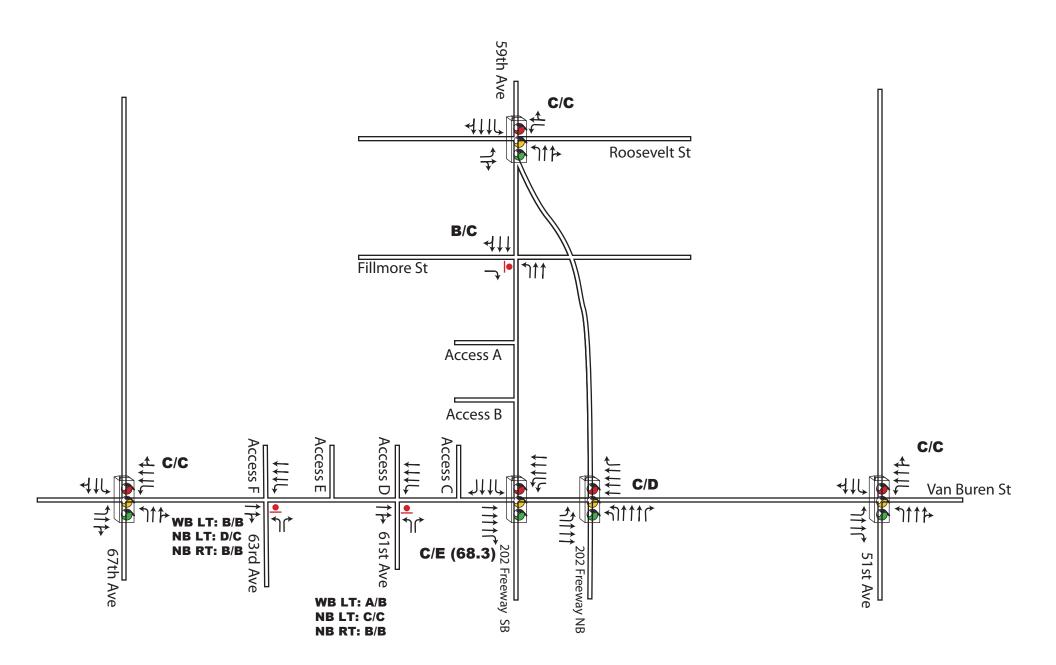
A peak hour factor of .92 is assumed for background traffic. Truck percentage is five percent on arterials, and ten percent on accesses to and from the site.

The resulting LOS is shown on Figure 12 for Year 2015 no build conditions, Figure 13 for Year 2030 no build conditions, Figure 14 for Year 2015 build conditions and Figure 15 for Year 2030 build conditions.

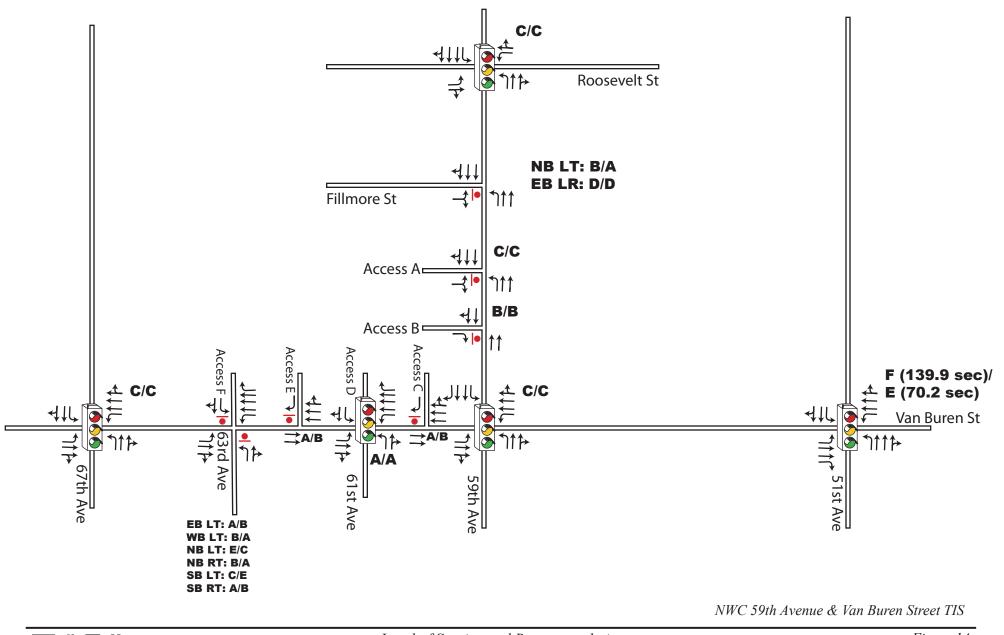
Most intersections operate at LOS D or better for Year 2015 and 2030. For signalized intersections with LOS E or LOS F, the average delay is also shown.



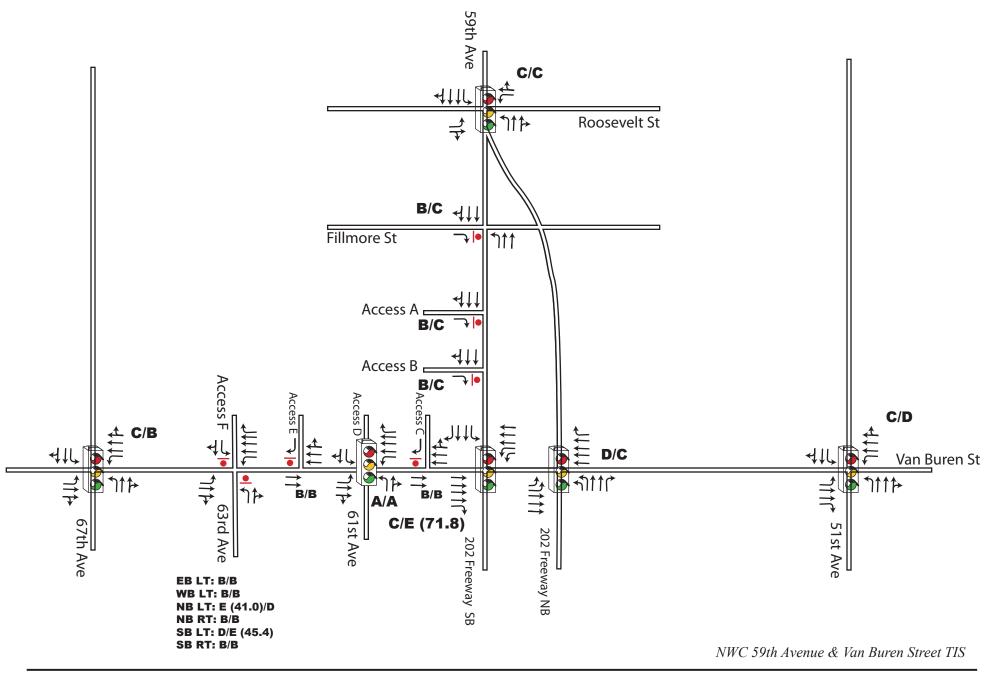














Level of Service and Recommendations (Year 2030) For the 2015 No Build scenario, the intersection of Van Buren Street/51st Avenue operates at LOS F in the AM with 128.2 seconds delay, and LOS E in the PM with 63.4 Seconds Delay. For the 2015 Build Scenario, this increases to 139.9 seconds in the AM and 70.2 seconds in the PM peak periods. These poor levels of service are due to the very high traffic estimates found on 51st Avenue (49,000 in 2011 and 52,800 in 2015). This high traffic level contributes to the need for the proposed South Mountain Freeway.

A traffic signal at Van Buren Street/61st Avenue provides good traffic service to the site, with LOS A in both peak hours in 2015. Stop Sign control at this location will result in LOS F for traffic trying to turn left from the main site access (Access D) onto Van Buren Street.

In 2030 with completion of the South Mountain Freeway, the peak hour LOS at 51st Avenue/Van Buren Street improves to C in the AM peak hour and D in the PM peak hour with full site traffic included.

For 2030 with completion of the South Mountain Freeway, traffic patterns shift. 59th Avenue adjacent to the site becomes a southbound one-way road, and there is a half diamond with ramps to and from the south at 59th Avenue/Van Buren Street. The southbound traffic signal at 59th Avenue/Van Buren Street operates at LOS C in the AM peak hour, but at LOS E in the PM peak hour. The 2030 PM peak hour delay increases slightly from 68.3 seconds in the No Build Case to 71.8 seconds in the build case.

The PM peak hour LOS estimate at the southbound ramp junction at Van Buren Street is affected by the limitation of the analysis program. The eastbound approach will have 3 through lanes and two lanes feeding the northbound on ramp for a total of five storage lanes. The program only allows four through lanes. It is anticipated that actual results will be somewhat better than the calculated results in this case.

Capacity summaries are included in Appendix A.

TRAFFIC SIGNAL WARRANT ANALYSIS

A traffic signal is very useful to allow large trucks to leave the site. The most reasonable location for near term and far term traffic is the main entrance on Van Buren Street – Access D. A traffic signal warrant analysis was completed for this intersection for Year 2015 and Year 2030. The *Manual on Uniform Traffic Control Devices (MUTCD)* Chapter 4C presents traffic signal warrants. A traffic signal should not be turned on until one or more of the traffic signal warrants of the MUTCD are met.

The Arizona Department of Transportation's (ADOT) *Traffic Engineering Policies, Guidelines and Procedures (PGP), Part 611-Traffic Signal Needs Studies* provide a method to estimate 4th highest hour, and 8th highest hour volumes in cases where detailed traffic counts are not available. The summary section of the ADOT Traffic Signal Needs Studies is included in Appendix C. Projected traffic volumes used to determine if the intersection meets traffic signal warrants are shown in Table 5.

The highest hour volume for traffic on the minor street is the PM peak hour. The fourth high hour is assumed to be 0.656 of ADT and eighth highest hour is estimated as 0.0572 of ADT, estimation factors from the above-mentioned ADOT source. For Access D, 75% of total 2015 ADT is outbound, and 60% of total 2030 ADT is outbound. Inbound traffic is spread to other locations, but outbound traffic can use the traffic signal.

According to Section 4C.01 of the MUTCD, "The study should consider the effects of the right-turn vehicles from the minor street approaches. Engineering judgment should be used to determine what, if any, portion of the right-turn traffic is subtracted from the minor-street traffic count when evaluating the count against the above traffic warrants."

The issue of right turn reductions was discussed in "Traffic Signal Warrants: Two Agencies Preferences," by David R. McDonald, Jr. in *ITE Journal*, January 2001. The summary of these procedures is included in Appendix C. In this case, a 60% reduction in right turn volumes is made to account for this adjustment.

The traffic volume warrants of the MUTCD require determining the number of lanes on the major and minor approaches. For this study, Van Buren Street has two or more lanes on each approach, and 61st Avenue - Access D has one lane.

For 2015, traffic signal warrants are checked with only Phase 1 of the distribution center open. This report makes no specific traffic assignment for this scenario, but the Phase 1 trip generation in Table 1 was used to estimate minor street volumes and to adjust major street volumes.

Warrant 1 – Eight Hour Vehicular Volume

The Minimum Vehicular Volume, Condition A, is intended for application at locations where a large volume of intersecting traffic is the principal reason to consider installing a traffic control signal. The Interruption of Continuous Traffic, Condition B, is intended for application at locations where Condition A is not satisfied and where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street.

The two possible warranting volumes for Warrant 1 are Condition A - Minimum Vehicular Volume, and Condition B - Interruption of Continuous Traffic. The 100 percent column is used since the speed limit on Van Buren Street not higher than 40 mph. Table 6 compare warranting volume and warrants for Warrant 1, Condition A and Condition B for Year 2013 and Year 2018. There is one lane on 61^{st} Avenue – Access D and 2 or more lanes on Van Buren Street.

Approach	h Avenue/Van Bure Street ADT	Highest	Fourth	Eighth
Approach	Street AD1	Hour	Highest	Highest
			Hour	Hour
Van Buren Street/61 st Avenue (2015 With F				
Major Street – Van Buren St.				
(Total of both approach volumes)	19,200	1,338	1,181	1,030
Minor Street – 61 st Avenue-Access D				
(Highest approach volume)	661	86	50	44
Less Right Turn Reduction		15	3	3
Minor Street Warranting Volume		81	47	39
Van Buren Street/61 st Avenue (2015 With S	ite Build Out)			
Major Street – Van Buren St.				
(Total of both approach volumes)	18,000	1,429	1,260	1,098
Minor Street – 61 st Avenue-Access D				
(Highest approach volume)	1,283	171	84	73
Less Right Turn Reduction		10	5	4
Minor Street Warranting Volume		161	79	69
Van Buren Street/61 st Avenue (2030 With S	ite Build Out)			
Major Street – Van Buren St.				
(Total of both approach volumes)	28,500	2,176	1,870	1,630
Minor Street – 61 st Avenue-Access D				
(Highest approach volume)	1,380	192	91	79
Less Right Turn Reduction		16	7	6
Minor Street Warranting Volume		176	84	73

 Table 5

 Traffic Volumes for Warrant Analysis: Van Buren Street/61st Avenue-Access D

 NWC 59th Avenue/Van Buren TIS

This intersection does not meet Warrant 1 for any of the scenarios under study; although it comes close to meeting the warrant for 2015 and 2030 with build out of the site. This is significant because there is no adjustment for large trucks in the MUTCD traffic signal warrants. For this intersection, about 20 percent of the minor street volumes during the eighth highest hour are heavy trucks. If each heavy truck were counted as two vehicles, then Warrant 1 would be met for 2015 and 2030 with build out of the site.

The design and analysis of roadways recognizes that trucks use more physical road space and are slower and accelerate slower than light vehicles. The 2010 Highway Capacity Manual (Published by Transportation Research Board, 2010, Page 9-8) addresses how trucks are handled in road design and analysis. Heavy Vehicles are defined by the manual. A vehicle with more than four wheels touching the pavement during normal operation is the formal definition of "heavy trucks." For intersection analysis, the equivalent number of through cars for each heavy vehicle is 2.0 (2010 Highway Capacity Manual, Page 18-36). Using this figure, a flow of cars and trucks can be converted into "Passenger car equivalents". The traffic signal warrants of the MUTCD do not explicitly require the use of passenger car equivalents, and usually truck volumes are low enough that it does not affect the result. Due to the nature of the project and the background traffic in this area, it is appropriate to consider trucks as 2.0 passenger car equivalents in this case.

Table 6
Warrant 1, Eight-Hour Vehicular Volumes: Van Buren Street/61 st Ave – Access D
NWC 59 th Avenue/Van Buren TIS

Approach	Minimum Hourly Volume	Warranting Volume	Meets Warrant?
Van Buren St/61 st Ave – Access D (2015 Pha	se 1)		
Condition A - Minimum Vehicular Volume			
Major Street	600	1030	Yes
Minor Street	150	39	No
Condition B - Interruption of Continuous Traff	ĩc		
Major Street	900	1030	Yes
Minor Street	75	39	No
Van Buren St/61 st Ave – Access D (2015 Bui	ld Out)		
Condition A - Minimum Vehicular Volume			
Major Street	600	1098	Yes
Minor Street	150	69	No
Condition B - Interruption of Continuous Traff	ĩc		
Major Street	900	1098	Yes
Minor Street	75	69	No
Van Buren St/61 st Ave – Access D (2030 Bui	ld Out)		
Condition A - Minimum Vehicular Volume			
Major Street	600	1630	Yes
Minor Street	150	73	No
Condition B - Interruption of Continuous Traff	ïc		
Major Street	900	1630	Yes
Minor Street	75	73	No

Warrant 2 – Four Hour Vehicular Volume

The Four-Hour Vehicular Volume signal warrant conditions are intended to be applied where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal.

The Four-Hour warrant is met if for each of any four hours of an average day, the plotted points representing the vehicles per hour on the major street and the corresponding vehicles per hour on the higher-volume minor-street approach exceed the applicable curve from the MUTCD. The Four-Hour warrant curves from the MUTCD are included in Appendix E. The 100 percent column is used for one lane on the minor approach and two or more lanes the major approach.

According to the warrant curves, Van Buren Street/ 61^{st} Avenue – Access D meets Warrant 2 for 2030 with site build out.

Warrant 3 – Peak Hour

The Peak Hour signal warrant is intended for use at a location where traffic conditions are such that for a minimum of 1 hour of an average day, the minor-street suffers undue delay when entering or crossing the major street. The peak hour warrant is applied only in unusual cases such as office complexes, manufacturing plants, industrial complexes or

HOV facilities that attract or discharge large numbers of vehicles over a short time. It appears that the Peak Hour warrant will be appropriate at this location.

There are two conditions for the peak hour warrant. Condition A is met if all three of the following conditions are true for the same one-hour:

- 1. The total stopped delay on one minor street approach controlled by a STOP sign equals or exceeds 4 vehicles hours for a one-lane approach, or 5 hours for a two-lane approach, and
- 2. The volume on the same minor street approach equals or exceeds 100 vph for one lane or 150 vph for two moving lanes, and
- 3. The total entering volume during the hour equals or exceeds 650 vph for intersections with 3 approaches or 800 vph for intersections with four or more approaches.

For this location, Condition A was not tested.

Condition B is met if the plotted point representing the vehicles per hour on the major street and the corresponding vehicles per hour on the higher-volume minor-street approach for one hour on an average day falls above the applicable curve found in Appendix C.

Again, since Van Buren Street does not have a speed limit over 40 mph, Warrant 3 uses the 100 percent factor graph, with two lanes on Van Buren Street approaches and one lane on the 61^{st} Avenue – Access D approach. The second condition of Warrant 3 is met for 2015 and 2030 with Site Build Out. Therefore, a traffic signal is recommended at Van Buren Street/ 61^{st} Avenue – Access D for these conditions.

Summary. Table 7 summarizes the results of the analysis of traffic volume warrants for this location. Based on the projections used in this analysis, a traffic signal will be warranted at Van Buren Street/61st Avenue in 2015 and 2030 with build out of the Site.

If heavy vehicles are counted as two vehicles instead of one, the 8-hour and 4-hour warrants are met for Build Out conditions as well as the Peak Hour Warrant.

The design and analysis of roadways recognizes that trucks use more physical road space and are slower and accelerate slower than light vehicles. The 2010 Highway Capacity Manual (Published by Transportation Research Board, 2010, Page 9-8) addresses how trucks are handled in road design and analysis. Heavy Vehicles are defined by the manual. A vehicle with more than four wheels touching the pavement during normal operation is the formal definition of "heavy trucks." For intersection analysis, the equivalent number of through cars for each heavy vehicle is 2.0 (2010 Highway Capacity Manual, Page 18-36). Using this figure, a flow of cars and trucks can be converted into "Passenger car equivalents". The traffic signal warrants of the MUTCD do not explicitly require the use of passenger car equivalents, and usually truck volumes are low enough that it does not affect the result. Due to the nature of the project and the background traffic in this area, it is appropriate to consider trucks as 2.0 passenger car equivalents in this case. This intersection is located one-quarter mile west of the major intersection of 59th Avenue/Van Buren Street. To reduce the impact on Van Buren Street, the traffic signal should be demand actuated by vehicles on the minor approaches.

NWC 59 th Avenue/Van Buren TIS												
	2015 with Phase 1	2015 with Build Out	2030 with Build Out									
Warrant 1 (8-Hour)												
Condition A	No	No	No									
Condition B	No	Yes*	Yes*									
Warrant 2 (4- Hour)	No	Yes*	Yes									
Warrant 3 (1- Hour)	No	Yes	Yes									

 Table 7

 Summary of Traffic Signal Warrants for Van Buren St/61st Ave – Access D

 NWC 50th Average War Buren TIS

* Meets Warrant if heavy trucks are counted as 2 vehicles.

DESIGN ISSUES

Accesses B, is recommended to be right in, right out accesses in order to provide adequate room for queuing at 59th Avenue. When the South Mountain Freeway is built, Access A will also become right in, right out because 59th Avenue adjacent to the site will become one way southbound.

If a traffic signal is installed at Van Buren Street/61st Avenue, then left turns from the project onto Van Buren Street will be made at this location.

Access C and Access E on Van Buren Street can allow left turns in and out of them if they are far enough from the adjacent traffic signals that they do not interfere with expected queues. The expected maximum eastbound left turn queue at Access D is 3 vehicles. At 25 feet per vehicle, and adding 40 feet to account for large trucks, the needed storage for the eastbound left turn lane is 115 feet. This can be accommodated if the distance between Access D and Access E is at least 215 feet measured from near curb to near curb.

Access C can have left turns in and out if it is far enough away from 59th Street that the left turn queue from 59th Street does not block left turns in and out of Access C. The maximum expected queue on Van Buren Street at 59th Avenue is 6 vehicles, At 25 feet per vehicle and adding 40 feet for heavy trucks, this translates into a needed storage length of 190 feet. This can be accommodated if the distance between 59th Avenue and Access C is at least 290 feet, measured from near curb to near curb.

The current design allows placing Access C and Access E far enough from the adjacent traffic signals to allow full access at these driveways.

The proposed traffic signal at the main entrance to the site (Access D at Van Buren Street/61st Avenue) is one-quarter mile west of the existing and future traffic signal at

59th Avenue. Arizona Department of Transportation expresses that they do not have any issues with the distance between the two signals, and that the proposed signal at Access D will be beyond ADOT right of way restrictions.

The operations of the signals at 59th Avenue and 61st Avenue were examined to determine whether the queues for one intersection would likely interfere with the operations of the adjacent intersection. According to the capacity analysis for this report, the longest expected queue (peak hour 95th percentile queue) on the west leg of Van Buren Street at 59th Avenue is 475 feet. The longest expected queue (peak hour 95th percentile queue) on the east leg of Van Buren Street and 61st Avenue is two vehicles, or 50 feet. A minimum 150-foot westbound storage lane is recommended at 61st Street. The combined length of 150 feet westbound and 475 feet eastbound queues can easily be accommodated by the two traffic signals located one-quarter mile apart.

It is anticipated that signal progression on Van Buren Street adjacent to the site will favor eastbound traffic in the morning and westbound traffic in the afternoon. Good signal progression in the off-peak direction will not be achievable at the proposed traffic signal located at 61st Avenue.

When the South Mountain Freeway is built, 59th Avenue will transition into two one-way frontage roads north of Van Buren Street. North of Van Buren Street, the northbound frontage road crosses under the freeway to join 59th Avenue forming a traditional two-way arterial. The neighborhood north of the site has three intersections with 59th Avenue, one of these, Roosevelt Street, has a traffic signal. If these intersections are on a one-way street, then certain movements in and out of the neighborhood will be limited. The preliminary design of the South Mountain Freeway shows that the 59th Avenue/Roosevelt Street signalized intersection will be maintained as it is, and that the local street intersection with McKinley Street south of Roosevelt Street will also be maintained. The preliminary design shows the split in 59th Avenue may occur north of Fillmore Street, meaning that left turns from the south and left turns from Fillmore Street will not be possible.

If this transition occurs south of Fillmore Street, then Fillmore Street can maintain access both from the north and the south. This will allow the neighborhood north of the site to maintain the same level of access after the construction of the South Mountain Freeway as before. This design question was discussed with representatives of Arizona Department of Transportation (ADOT) Right of Way Group and the design consultant for the South Mountain Freeway on December 4, 2012. The consensus was that this design concept is viable and will be taken into account in the final design of the South Mountain Freeway.

The preliminary design of the South Mountain Freeway does not require additional right of way from the site along 59th Avenue. Some additional right of way may be needed along Van Buren Street from 59th Avenue west for as much as 1,500 feet (650 to 700 feet plus taper back to existing cross section) to accommodate widening for the traffic interchange.

The third southbound lane on 59th Avenue currently becomes a right turn only lane at Van Buren Street. This could remain a right turn lane in the future, or become a right-through lane. This depends on the detailed design of this intersection.

Right turn deceleration lanes may be warranted at driveway locations with 30 or more right turns in a peak hour. This volume is exceeded at Access D and Access F. A right turn lane provides little or no benefit to large trucks turning right because they cannot make the sharp "S" curve maneuver to enter them. But during peak hours, most of the turns into these driveways will be light duty vehicles. A minimum straight section of 100 feet and a 100-foot taper will allow adequate deceleration for turning vehicles on an arterial with a speed limit of 45 mph. This will require that these intersections be at least 250 feet from the nearest upstream intersection, measured from near curb to near curb.

RECOMMENDATIONS

The proposed distribution center at the northwest corner of 59th Avenue and Van Buren Street is anticipated to generate 4,078 trips per day when built out, with 349 total morning peak hour trips and 373 total evening peak hour trips. Phase 1 is expected to generate 2,101 daily trips, 162 morning peak hour trips, and 173 afternoon peak hour trips. The traffic disperses in such a way that it can be accommodated on the roadway system with the following recommended improvements.

- After construction of the Loop 202, South Mountain Freeway, access to residential neighborhoods along 59th Avenue will remain unchanged from I-10 to McKinley Street. Access a Villa Street, Pierce Street and Fillmore Street would be modified to right-in, right-out along the 59th Avenue southbound frontage road. This provides access in both directions along 59th Avenue, especially with the traffic signal at Roosevelt Street. It will also help to reduce cut through traffic along Fillmore Street and other local streets.. The proposed schematic design for this intersection is shown on Figure 3.
- For the freeway construction project, right of way will be required from the site along the north side of Van Buren Street. Van Buren Street west of 59th Avenue will be widened, and additional right of way may be needed. Current right of way on Van Buren Street west of 59th Avenue is about 102 feet wide. The anticipated right of way taking for the freeway may extend up to 600 to 750 feet and then taper to the existing road cross section and right of way up to 1,500 feet west of Van Buren Street. Final design and alignment are not complete, but right of way acquisition may begin sometime in 2014.
- The 63rd Avenue alignment at the west part of the site does not exist today and is not recommended to be constructed in order to avoid increasing traffic levels in the residential neighborhood north of the site. Instead, it is recommended that the north leg of Van Buren Street/63rd Avenue be developed into an access to the western part of the proposed distribution center.

- A traffic signal is recommended to be built at Access D, the main entrance on Van Buren Street at 61st Avenue. This traffic signal will meet warrants with the full development of the site. It is needed to provide access from the site by large trucks. To reduce impact on Van Buren Street traffic, it should be activated by presence of vehicles on the minor approaches.
- Two accesses are recommended to the site from 59th Avenue. The southern access will be right in, right out only. The northern access should be at least 150 feet south of Fillmore Street, measured from near curb to near curb. It will become right in, right out only when this section of 59th Avenue becomes one-way southbound with construction of the South Mountain Freeway.
- Four driveway accesses are recommended along Van Buren Street. The main access is at the 61st Avenue alignment, and another full access is recommended at the 63rd Avenue alignment. Two additional accesses (Access C and Access E) are recommended between these locations.
- In order to maintain full access to Access C, it should be located at least 290 feet west of 59th Avenue, measured from nearest curb to nearest curb.
- In order to maintain full access to Access E, it should be located at least 215 feet west of Access D/61st Avenue, measured from near curb to near curb.
- A westbound right turn deceleration lane is recommended to be built on Van Buren Street at the main entrance (61st Avenue Access D), and at 63rd Avenue (Access F). A 100-foot long taper and minimum 100-foot long straight section is adequate for 45 mph speed limit.
- There will be no access from the site to Fillmore Street to avoid increasing traffic through the residential neighborhood. The development will complete the south half of Fillmore Street as a residential local street.

APPENDIX A

CAPACITY SUMMARIES

APPENDIX A

CAPACITY SUMMARIES

APPENDIX A

,

2015 NO BUILD

		HCS 2	010 S	iqnali	zed l	nters	ectior	n Res	ults S	umm	ary					
			11	J												
General Inform	ation							1	Intersec	tion Inf	ormatio	on.		. A B & A	<u>F U</u>	
Agency	lation	TASK Engineering		Duration							0.25					
Analyst		Ken Howell		Analys	is Date	e Dec 2	8. 2012	CONTRACTOR CONTRA			THAT A DESCRIPTION OF A					
Jurisdiction		City of Phoenix		Analysis Date Dec 28, 2012 Area Typ Time Period AM Pk Hr PHF							0.92	and a state of the		N-E	投入	
Intersection		Van Buren St/67th	Avenue													
File Name	and the second secon	VB67 AM .xus													<u> </u>	
Project Descrip	tion	2015 No Build		d de la compañía de l					a geographic de la constante d					A A & &	R.A.	
		20101102000											1			
Demand Inform	nation				EB	10,000		WE	3		NB		n const	SB		
Approach Move	ement	*******		L	T	R	L	T	R	L	T	R	L	T	R	
Demand (v), ve	h/h		n hender state	78	911	64	45	140) 61	54	659	266	184	695	109	
						<u> </u>										
Signal Informa				v	a.	_ 2		ĽĮ (» 2W		3			ĸ	人	
Cycle, s	100.0	Reference Phase	2		۳ °	R	R	۱ ۱		5	17 *		\$	<u>)</u>	- * *	
Offset, s	0	Reference Point	End	Green		2.6	36.0	4.0	1.0	32.8			A			
Uncoordinated	No	Simult. Gap E/W	On	Yellow		0.0	3.0	3.0	3.0	3.0		^	Y	N	_ ¶ v −	
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	1.0	1.0						
						EDT		, I	MOT		1	NOT	l en		ODT	
Timer Results				EBL	-	EBT	WB		WBT	NBI		NBT	SB 7		SBT 4	
Assigned Phase	9	anan managanan kanan kunas-an na mang panak kepanan képi di di da	and the capital contactor	5		2	1		6	3		8	Companya Mangala Managala Mana			
Case Number				2.0 10.3		4.0	1.1		4.0	1.1		4.0	1.1		4.0 41.7	
	Phase Duration, s Change Period, (Y+R₀), s					42.5	7.7		40.0	8.0		36.8	13.0	apart Contention Contribution	unaverative and	
since an entry of the second sec	ADD TO A DECK OF ADD TO ADD			8		4.0	4.0		4.0	4.0		4.0 4.0 3.1 3.1				
2010/00/00/00/00/00/00/00/00/00/00/00/00/	Max Allow Headway (MAH), s					0.0	3.1 3.8		0.0	3.1 4.2	3.1		28.9 8.8		20.3	
And the second	Queue Clearance Time <i>(gs</i>), s Green Extension Time <i>(gə</i>), s					0.0	3.0 0.1	Contraction of the local diversion of the local diversion of the local diversion of the local diversion of the	0.0	4.2		3.8	0.0		4.3	
		<i>(g_θ),</i> s		0.1		0.0	0.1	and a second	0.0	0.0	anna an	3.0 1.00	1.00		1.00	
Phase Call Pro Max Out Proba	Contraction of the local division of the loc			0.00			0.00	ana		0.00		0.18 0.0			0.02	
Iviax Out Proba	Dility		1	0.00	'		0.00				0.00 1 0.10		0.07	- I		
Movement Gro	oup Res	ults		EB				WB		NB		S		SB		
Approach Move				L	T	R	L	Т	R	L	Т	R	L	Т	R	
Assigned Move		27 Mar 2017 27 Mar 2019 (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019) (2019)		5	2	12	1	6	16	3	8	18	7	4	14	
Adjusted Flow I		, veh/h		85	536	524	49	152	66	59	529	477	200	448	426	
And the second	the second s	w Rate (s), veh/h/ln		1723	1810	1767	1723	1810	1533	1723	1810	1631	1723	1810	1723	
Queue Service	Time (g	1s), S		4.8	23.8	23.8	1.8	2.3	2.4	2.2	26.9	26.9	6.8	18.3	18.3	
Cycle Queue C	Average and a second	The second s	an a	4.8	23.8	23.8	1.8	2.3	2.4	2.2	26.9	26.9	6.8	18.3	18.3	
Capacity (c), ve	eh/h			108	697	681	212	1301	551	260	593	535	258	683	650	
Volume-to-Cap	acity Ra	ntio (X)		0.784	0.769	0.769	0.231	0.117	0.120	0.226	0.891	0.891	0.774	0.655	0.656	
Available Capa	city (c₀),	, veh/h		452	697	681	600	1301	551	467	778	702	379	868	827	
Back of Queue	(Q), veł	1/In (95th percentile))	3.8	15.0	14.7	1.2	1.8	1.6	1.6	16.9	15.7	4.7	10.7	10.3	
Overflow Queu		And a second		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Queue Storage	Ratio (/	RQ) (95th percentile)	0.50	0.00	0.00	0.16	0.00	0.00	0.20	0.00	0.00	0.62	0.00	0.00	
Uniform Delay	(d1), s/ve	əh		45.1	20.7	20.7	20.9	17.3	17.3	21.4	26.5	26.5	21.6	20.0	20.0	
Incremental De	lay (d2),	s/veh		4.6	8.0	8.2	0.2	0.2	0.4	0.2	8.7	9.5	3.0	0,5	0.6	
Initial Queue De				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (mentre washing			49.8	28.7	28.9	21.2	17.5	17.7	21.5	35.2	36.0	24.6	20.6	20.6	
Level of Service				D 30.4	С	C	C	В	В	С	D	D	C		C	
Approach Delay	Approach Delay, s/veh / LOS					С	18.2	2	В	34.8	<u>} </u>	С	21.3	3	С	
Intersection De	lay, s/ve	eh/LOS		28.0					8.0				С			
									И		- in 1		N			
Multimodal Re					EB	-	<u> </u>	WB		NB			SB			
Pedestrian LOS				2.8		C	2.8	and the second	C	2.9 C		3.2		C		
Bicycle LOS Sc	ore / LC)S		1.4		А	0.6		A	1.4		A	1.4	I	А	

HCS 2010™ Streets Version 6.41

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Agency	lation	TASK Engineering							Duration	0.25					
Analyst	hite Avan and a second	Ken Howell		Analys	sis Dat	e Dec 2	8, 2012 Area Typ				Other	-			
Jurisdiction	747	City of Phoenix	an a	Time F	******	PM PI	Contraction and the second second	And the second second second second	PHF		0.92			w ÷ E	W.
Intersection		Van Buren St/67th	Avenue	Construction of the local division of the lo					Analysis	Period	1> 7:0	00			
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Project Descrip	tion	2015 No Build										New Wy	- 5	8 8 8 12	<u> </u>
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Approach Move	ement			L	T	R	L] T	R	L	T	R	L	T	R
Demand (v), ve	-01-201-02	70	147	38	123	59	4 383	38	703	42	84	569	50		
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Cycle, s	100.0	Reference Phase	2	4	۲°	ſ é	"≓"	ĸ		5	17 ×		\$	<u>]</u>	-▼-
Offset, s	0	Reference Point	End	Green		0.4	46.5	3.4	1.9	26.			A		
Uncoordinated	No	Simult. Gap E/W	On	Yellow		0.0	3.0	3.0	0.0	3.0		>	Y		· 🕸
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	0.0	1.0					
				EDI		EBT	WB	r 1	WBT	NB	1	NBT	SBI		SBT
Timer Results				EBL	-		<u> vv</u> в		үү <u></u> 6	3	-	8	7	-	4
Assigned Phase	e	an a		5 2.0		2 4.0	1.1		4.0	ہ ر 1.1		<u> </u>	1.1		4
Case Number						4.0	1.1		4.0 50.9	7.4		<u>4.0</u> 30.1	9.4		32.0
Phase Duration						4.0	4.0			4.0	non-Sector Automation	4.0	4.0		4.0
	Change Period, (Y+R₀), s Max Allow Headway <i>(MAH</i>), s						4.0					3.0	3.1		3.0
Queue Clearan	and the second			3.1 (6.3		0.0	6.0		0.0	3.1 3.7		23.1 5.7		9-24-00-00-00-00-00-00-00-00-00-00-00-00-00	
Green Extensio				0.3		0.0	0.0	and the second	0.0	0.0		2.9	0.1		3.0
Phase Call Pro		{ 9 9 /, 5		0.88	2	0.0	0.2		0.0	0.68		1.00	0.92	, –	1.00
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Max Out i Toba	Sincy			1 0.00			1 0.00			1			n 0100		
Movement Gro	oup Res	sults		- sectored	EB	11144			NB NEW YORK						
Approach Move	ement			L	Т	R	L	Т	R	L	Ţ	R	L	Т	R
Assigned Move	ment		CONTRACTOR OF	5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow	Rate (v)	, veh/h		76	102	99	134	646	416	41	409	401	91	341	332
Adjusted Satura	ation Flo	ow Rate <i>(s</i>), veh/h/in	1999 - 1992 1	1723	1810	1683	1723	1810	1533	1723	1810	1773	1723	1810	1758
Queue Service	Time (g	75), S		4.3	2.3	2.4	4.0	8.8	15.9	1.7	21.1	21.1	3.7	15.8	15.8
Cycle Queue C	learanc	e Time <i>(g₀</i>), s	1 1943.s	4.3	2.3	2.4	4.0	8.8	15.9	1.7	21.1	21.1	3.7	15.8	15.8
Capacity (c), ve	A DESCRIPTION OF A DESC		NATION DESCRIPTION OF DESCRIPTION	98	842	783	680	1698	and a second	221	472	462	196	507	492
Volume-to-Cap				0.778	0.121	9/1/ CONTRACTOR OF CONTRACTOR	0.197	0.380		0.187	0.867	0.868	0.465	0.673	0.675
Available Capa	unaccommunity and a second	and the second	an an ann an	631	842	783	1206	1698	appropriate and the second state of the	438	844	827	380	879	854
Concernment of the second s		h/in (95th percentile))	3.5	1.7	1.7	2.5	5.7	8.5	1.3	13.2	13.0	2.7	10.2	10.0
Overflow Queu	VANDARI MARKAN AND AND AND AND AND AND AND AND AND A	CANADA CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	****	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Contract of the Contract of th	CARD AND A CONTRACTOR OF A	RQ) (95th percentile)	0.45	0.00		0.33	0.00	2010	0.16	0.00	0.00	0.35	0.00	0.00
Uniform Delay	in the second			45.6	10.6		11.8	11.6		26.2	31.0	31.0	26.0	27.5	27.5
Incremental De	Contraction of the local data		9-0-7-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	4.9	0.3	0.3	0.1	0.6	3.4	0.2	1.9	2.0	0.6	0.6	0.6
Initial Queue D				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (and the second se	and the second		50.5	10.9	and a second	11.8	12.2		26.3	32.9	33.0	26.7	28.1	28.1
Level of Service				D 21.8	B	B	B	B	B	C	C		C	C	<u> </u>
A REAL PROPERTY AND A REAL	pproach Delay, s/veh / LOS tersection Delay, s/veh / LOS					C	13.6		В	32.6		С	27.9	1	С
Intersection De	iay, s/ve	en / LOS		l		23	3.1			I			C		
Multimodal Ba	ultimodal Results					· · · · · · · · · · · ·	·····			na NB		1	SB		
Pedestrian LOS		/108		2.8	EB	С	2.8	~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	С	3.0		С	3.2		С
Bicycle LOS So		and the second		0.7	The second s	A	1.1		A	1.2	alan alan alan arang a	A	1.1		A
				<u> </u>	I		<u> </u>	1	<i>·</i> · ·	1.2	I		<u>u</u>		••

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General Inform	nation								Intersec	tion Inf	ormatio	on	1 2	<u>4884</u>	E U
Agency		TASK Engineering		Duration, h 0.25											
Analyst		Ken Howell		Analys	sis Dat	e Dec 2					Other				
Jurisdiction	******	City of Phoenix		Vanana and a second second second	Analysis DateDec 28, 2012Area TypeOtherTime PeriodAM Pk HrPHF0.92								ti ≪÷£	ar ar ar	
Intersection	*****	Van Buren St/59th	Avenue												
File Name		VB59 AM .xus		1		<u> </u>	2						- 6		
Project Descrip	tion	2015 No Build			*****		***		****		A V 2010/00 A 11/2010/2010/10/2010			(A) (C (A) (A)	2 K
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Demand Inform	nation				EB			WE	3		NB		i na Ara	SB	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Approach Move	ement			L	Т	R	L	Т	R	L	Т	R	L	Т	R
Demand (v), ve	h/h			113	114:	3 55	28	11	7 50	27	533	108	303	529	65
									6						
Wein View and Annual	Signal Information							ĽĮ Į	5 2 L	, ell	2		_	K	
Cycle, s						Ŕ	E.	۲		5	17	–	Θ	<u>}</u>	
Offset, s	0	Reference Point	End	Green	2.9	3.0	39.9	2.8	7.9	23.6			N		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	3.0	0.0	3.0	3.0	3.0	3.0		<u> </u>		5	50
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	1.0	1.0	1010				
	1.1				i se de s						1		н	a di man	
Timer Results				EBL		EBT	WB	L	WBT	NB		NBT	SB		SBT
Assigned Phase	8			5 1.1		2 4.0	1		6	3	ntsinetzellen sundennes	8	7		4
Name and the state of the state	Case Number						1.1	unaniphisto salahiji	4.0	1.1		4.0	1.1		3.0
	Phase Duration, s					46.9	6.9		43.9	6.8		27.6	18.7	CHARLEN CONTRACTOR CONTRACTOR	39.5
annan ann an ann an ann an ann an ann an a	Change Period, (Y+Rc), s					4.0	4.0		4.0	4.0		4.0 4.0			
A CONTRACTOR OF A CONTRACTOR O	Max Allow Headway (MAH), s					0.0	3.1		0.0	3.1	a nanatatang mga salatatatan sa	3.1	3.1		3.1
and an inclusion of the second se	Queue Clearance Time (gs), s						3.0			3.3		20.6	14.2		13.3
Green Extensio		(g₀), s		0.2		0.0	0.0		0.0	0.0		3.0	0.5		3.0
Phase Call Pro	NAMES AND ADDRESS OF ADDRESS ADDRESS OF ADDRESS OF ADDR			0.97	anna an		0.57	warran		0.56		1.00	1.00		1.00
Max Out Proba	bility			0.00			0.00			0.00		0.00	0.00)	0.00
		14		1	- PD		WB		NB			1	SB		
Movement Gro	******	iuits			EB T		1		R			പ		ов Т	
Approach Move				L. 	/man/memoryan	R		T		L		R	L		R
Assigned Move		v z + la Aa		5 123	2 656	12 646	1 30	6 127	16 54	3 29	8 358	18 339	7 329	4 575	14 71
Adjusted Flow F	Chever State Concerning on the State Stat	, ven/n w Rate <i>(s)</i> , veh/h/ln					1723	NTTT WINTER THE REAL	MID COMMAND	1723	1810	1703	1723	1723	1610
Queue Service	dente anno anno anno anno anno a			1723 3.9	1810 30.0		1.0	1810 1.7	1.7	1723	18.4	18.6	1723	11.3	2.5
and the second	North Contraction of the local data	and a second		and the second se	ALC: NOT THE REAL PROPERTY OF		1.0			1.3 1.3	18.4	18.6	12.2	11.3	2.5
Cycle Queue C		e nine (<i>g</i> c), s		3.9 617	30.0 776	763	1.0	1.7 1443	1.7 611	299	426	401	362	1222	2.3 571
Capacity (c), ve Volume-to-Cap	the state of the second second second second	sia /VI		0.199	Anna Antonio Antonio	0.847	0.176	0.088		0.098	420 0.840	0.844	0.911	0.471	0.124
Available Capa		wanter and a second state of the		1200	776	763	809	1443		699	856	806	556	2040	953
Construction of the Constr	ananan mananan mananan mananan mananan mananan manana manana manana manana manana manana manana manana manana m			2.5	17.9	17.8	0.7	1.3	1.2	0.9	11.9	11.4	8.9	7.3	1.6
Overflow Queue		ı/In (95th percentile) veh/in		0.0	0.0	0.0	0.7	0.0	0.0	0.9	0.0	0.0	0.9	0.0	0.0
Commission Contraction Contraction Contraction Contraction Contraction	THE REAL PROPERTY AND ADDRESS OF ADDRES		\	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.92	0.00	0.00
A CARD OF A DECK OF A	Contract of the second s	RQ) (95th percentile	/	13.5	18.7	18.7	20.5	14.5	14.5	27.3	32.5	32.6	21.2	20.0	17.7
//////////////////////////////////////	Jniform Delay (d1), s/veh ncremental Delay (d2), s/veh						0.2	0.1	0.3		1.7		10.1	0.1	0.0
Contract Contractor Contractor Contractor Contractor	and the second state of the second state of the	STATES AND		0.1	10.9	11.2 0.0	0.2	0.1		0.1	0.0	1.9 0.0	0.0	0.1	0.0
Initial Queue De	CHICK STREET, ST	and a second		0.0 13.5	0.0 29.6	29.9	20.6	0.0 14.6	0.0 14.8	27.4	34.3	0.0 34.5	31.3	20.1	17.7
Control Delay (Conception of the second second			13.5 B	29.6 C	29.9 C	20.6 C	14.6 B	14.8 B	27.4 C	34.3 C	34.5 C	31.3 C	20.1 C	П7.7 В
Level of Service		1100	and the second	В 28.3	And an		 		B			C C	23.7		C C
	pproach Delay, s/veh / LOS itersection Delay, s/veh / LOS							<u>' </u>	D	34.1	ļ	1	<u> </u>	1	<u> </u>
Intersection Del	ay, s/ve	117 LUO		L	an se	21	7.4			l					
Multimodal Ba	ultimodal Results									NB			SB		
Pedestrian LOS		// 05		2.8	EB I	С	2.9 Wi		WB C		3.0 C		3.2		С
Bicycle LOS Sc				1.7		A	0.6	and the second second second	A	1.1	nomen management of	A	1.3	AND ADDRESS OF TAXABLE PARTY	A
		~~~~~		1 1.7		7	0.0		~	1.1		~	1.0		<u>^</u>

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	HCS 2010 Signalized Intersection Results Summary														
	e dan dari dari	1100 2.		.g											
General Inform	ation		<u></u>					l Ir	ntersect	ion Info	ormatio	n	T	REBRS	
Agency		TASK Engineering	ana ana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny		1			D	Duration, h 0.25						
Analyst		Ken Howell		Analys	Analysis Date Dec 28, 2				rea Typ	e	Contractor of the Contractor o				
Jurisdiction	*****	City of Phoenix		Time P	eriod	PM Pk	Hr	P	HF		0.92			n n−E s	
Intersection		Van Buren St/59th A	Venue	Analys	is Year	2020		A	nalysis	Period	1> 7:0	0			
File Name		VB59 PM .xus													
Project Descript	ion	2015 No Build		**************************************						CONTRACTOR OF CONTRACT			a a	a a s n s	3 C
Demand Inform	nation				EB		n da sest	WB	energia en		NB			SB	
Approach Move	ment			L	Т	R	L	T	R	L	<u> </u>	R	L	<u>Γ</u>	R
Demand (v), vel	77	158	14	97	909	293	54	690	42	67	517	105			
		,	- 1	1	· · · · ·		- r:	-	- 1		1				
	Signal Information						<b>∃</b> ,, ¥	≓ /2	215	203			2	K I	人
Cycle, s	100.0	Reference Phase	2		1 6	1 4	₿ <b>*</b>	5		5	7		₹ I	].[	
Offset, s	0	Reference Point	End	Green		0.4	48.7	4.0	0.4	26.0			<u>×</u>		
Uncoordinated	No	Simult. Gap E/W	On On	Yellow	Concernance of the second s	0.0	3.0	3.0	0.0	3.0		7   ·	V	<b>S</b>	_ ¶ ⊅
Force Mode	Fixed	Simult. Gap N/S	Red	1.0	0.0	1.0	1.0	0.0	1.0						
													ОВІ		SBT
Timer Results				EBL	-	EBT	WBI	-	WBT	NBL	-	NBT	SBL	-	
Assigned Phase	9					2	1		6	3		8	7 1.1	4	
Case Number	/					4.0	1.1		4.0	1.1		4.0	Concernation of the local diversion of the local diversion of the local diversion of the local diversion of the		3.0 30.4
Phase Duration				8.5		52.7	8.9	Torners and the later state	53.1	8.0		30.0	8.5	sensioener mannen	
Change Period,	Annihozoo anno anno anno anno anno anno anno			4.0		4.0	4.0		4.0	4.0		4.0	4.0		4.0
Max Allow Head	Market State Sta	Contraction of the second s		3.1		0.0	3.1		0.0	3.1		3.1	3.1		3.1
Queue Clearan				4.4			5.0	Support of the second		4.5		22.6	5.0		15.5
Green Extensio	personal second s	(g₀), s		0.1		0.0	0.2		0.0	0.1	unananiai adabatan	3.3	0.1		3.3 1.00
Phase Call Pro				0.90	and the second		0.95			0.80		1.00	0.87		0.00
Max Out Proba	bility			0.00			0.00			0.00	יןי	0.00	0.00	, I .	0.00
Marrie and Car	Boo	wite			EB		<b>1</b>	WB		1	NB		1	SB	
Movement Gro		SUILS		L	<u>го</u> Т	R	1	T	R	L	T	R		Гт	R
Assigned Move	and the second second second	571978-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-51979-5	ammeetikkezona.	5	2	12	1	, 6	16	3	8	18	7	4	14
Adjusted Flow F	THE REAL PROPERTY AND ADDRESS OF	voblb	gelikki kanada ana	84	94	93	105	909	398	59	402	394	73	562	114
Contraction of the second s	the second second	, ven/m ow Rate <i>(s)</i> , veh/h/in	gadalatintinteration.	1723	1810	1758	1723	1810	1582	1723	1810	1773	1723	1723	1610
Queue Service	and the second	and the second secon		2.4	2.0	2.0	3.0	13.1	13.1	2.5	20.6	20.6	3.0	13.5	5.1
Cycle Queue C	terror and an interror and an	Construction of the second		2.4	2.0	2.0	3.0	13.1	13.1	2.5	20.6	20.6	3.0	13.5	5.1
and a second	Contraction of the local division of the loc			296	880	855	697	1776	776	237	470	460	184	910	425
Capacity (c), ve Volume-to-Cap		$\frac{1}{2}$		0.283	0.107	0.109	0.151	0.512	0.513	0.248	0.855	0.856	0.396	0.618	0.268
Available Capa	ter milden Station Contracts			1038	880	855	1432	1776	776	615	1041	1020	555	1997	934
and the second se	NAMES OF TAXABLE PARTY.	Contract of the second s		1.6	1.4	1.4	1.9	7.8	7.4	1.8	12.9	12.7	2.2	8.7	3.4
and a second	Back of Queue (Q), veh/ln (95th percentile) Overflow Queue (Q3), veh/ln					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
construction of the second	Queue Storage Ratio ( <i>RQ</i> ) (95th percentile)					0.00	0.25	0.00	0.00	0.23	0.00	0.00	0.23	0.00	0.00
And a second	and the second		1	0.20 12.3	0.00 9.4	9.4	11.1	11.1	11.1	25.9	30.9	31.0	27.0	28.2	25.5
common and dependent of the second	Jniform Delay (d1), s/veh ncremental Delay (d2), s/veh					0.3	0.0	1.1	2.4	0.2	1.8	1.8	0.5	0.3	0.1
Contraction of the Contraction o	nitial Queue Delay (d3), s/veh					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
and the second	itial Queue Delay (d₃), s/veh ontrol Delay (d), s/veh					9.6	11.2	12,1	13.5	26.1	32.7	32.8	27.5	28.5	25.6
Level of Service	in the second	and the second		12.5 B	9.6 A	A 3.0	B	B	B	20.1 C	C	C	C	C	C
Approach Delay			nana na ina na ina ina ina ina ina ina i	10.5	CONTRACTOR NO.	B	12.4		B	32.3		<u> </u>	27.9	Lauren Propaga	C C
Approach Dela				10.0 1	<u></u>		<u>    2</u>   ()	·	B 32.3 C 27.9						-

21.0 С Intersection Delay, s/veh / LOS SB EΒ WB NB **Multimodal Results** 3.2 С С Pedestrian LOS Score / LOS 3.0 С 2.9 С 2.8 0.7 A 1.3 А 1.2 A 1.1 A Bicycle LOS Score / LOS

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		HCS 2	010 S	ignali	zed I	nters	ectior	Res	ults S	umm	arv				]	
				.9					-		<b>,</b>			an an		
General Inform	ation						- T	Intersec	tion Inf	ormatio	n	1 2	8281	<u>KU</u>		
Agency	auvn	TASK Engineering							Duration	0.25						
Analyst		Ken Howell		Analys	is Date	e Dec 2	8 2012		Area Typ		Other	amaxaa ka			9.2	
Jurisdiction		City of Phoenix		Time F		AM P			PHF	0	0.92			$M = \mathbf{E}$	1 H	
Intersection		Van Buren St/51st	Δυορμο			annan an a			Analysis	Pariod	1> 7:0	ററ		<b>e</b>		
File Name		VB51 AM .xus	Avenue	Anaiya	515 I Ca	1 2020			niiaiysis	i enou	112 1.1	50	╡ [╕] ┣╗		<i>•</i>	
and the second	1	2015 No Build		WN929-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-			//////////////////////////////////////						- <b>B</b>	88.8	23	
Project Descrip													1		699 (44)	
Demand Inform	nation				EB			WE	3	1	NB			SB	·	
Approach Move				L	Тт	R	Ĺ	Ιт	R	Ĺ	ΙT	R	L	Γ	R	
CONTRACTOR OF A DESCRIPTION OF A A DESCRIPTION OF A DESCR	Demand (v), veh/h						10	165		34	822	16	143	1454		
				74	380	5	4	1			1					
Signal Informa	tion	and the second second second	Nu Nexe Deshed		I _		L _ 5	<u>i</u> l	, <u>12</u> K	125	,			_	L	
Cycle, s	100.0	Reference Phase	2		-~ e	-¥	R				17		<b>A</b>			
Offset, s	0	Reference Point	End	Green	1.3	3.3	27.4	3.2	3.2	45.5	1.00105675501046		N I			
Uncoordinated	No	Simult. Gap E/W	Yellow		0.0	3.0	3.0	0.0	3.0	-	~		5	KTZ		
Force Mode	Fixed	Simult. Gap N/S	Red	1.0	0.0	1.0	1.0	0.0	1.0		7		<b>7</b> 2	Y		
								1						19 SH 98		
<b>Timer Results</b>				EBI	-	EBT	WB	L	WBT	NBI	L	NBT	SBI	_	SBT	
Assigned Phase	3			5		2	1		6	3		8	7		4	
Case Number				1.1		3.0	1.1		4.0	1.1		4.0	1.1		4.0	
Phase Duration	, S			8.6		34.7	5.3		31.4	7.2		49.5	10.4		52.8	
Change Period,	(Y+Rc)	, S		4.0		4.0	4.0		4.0	4.0		4.0	4.0		4.0	
Max Allow Head	dway (N	IAH), s		3.1 (		0.0	3.1		0.0	3.1		3.1	3.1		3.1	
Queue Clearan	ce Tíme	e (gs), s		5.1			2.5			3.1		10.5	6.4		50.8	
Green Extensio	n Time	(g,), s		0.1	eran en fermen	0.0	0.0		0.0	0.0		8.7	0.2		0.0	
Phase Call Prol	oability			0.89			0.26	3	1992-949 - 1999-949 - 1997-949 - 1997-949 - 1997-949 - 1997-949 - 1997-949 - 1997-949 - 1997-949 - 1997-949 - 1	0.64		1.00	0.99	)	1.00	
Max Out Proba		an na ann an		0.00			0.00	)		0.00		0.09 0.		)	1.00	
			1			ED		(							CD.	
Movement Gro	up Res	sults			EB			WB			NB			SB		
Approach Move	ment			L	T	R	L	T	R	L	T	R	L	Т	R	
Assigned Move	ment			5	2	12	1	6	16	3	8	18	7	4	14	
Adjusted Flow F	Rate (v)	, veh/h		80	413	5	11	1482	- Construction of the Cons	37	609	302	155	910	900	
Adjusted Satura	ation Flo	ow Rate (s), veh/h/in		1723	1723	1610	1723	1810	and the second	1723	1810	1791	1723	1810	1730	
Queue Service	Time (g	<i>1s)</i> , S		3.1	8.4	0.2	0.5	27.4	27.4	1.1	8.5	8.5	4.4	48.8	48.8	
Cycle Queue C	learanc	e Time <i>(g₀</i> ), s		3.1	8.4	0.2	0.5	27.4	27.4	1.1	8.5	8.5	4.4	48.8	48.8	
Capacity (c), ve	h/h			152	1058	494	304	991	452	132	1648	816	402	883	844	
Volume-to-Cap	acity Ra	atio (X)		0.530	0.390	0.011	0.036	1.495	and the second	0.279	0.370	0.370	0.387	1.031	1.066	
Available Capad	city (Ca)	, veh/h		348	1058	494	557	991	452	353	1648	816	567	883	844	
Back of Queue	(Q), vel	h/In (95th percentile)		2.2	6.0	0.1	0.3	64.2	63.0	0.8	5.4	5.4	2.7	32.3	35.1	
Overflow Queue	e (Q3), v	/eh/ln		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Queue Storage	Ratio (	RQ) (95th percentile	)	0.29	0.00	0.00	0.04	0.00	0.00	0.10	0.00	0.00	0.35	0.00	0.00	
Uniform Delay (	′dı), s/v	eh		25.8	22.9	20.5	25.6	31.7	31.7	23.4	12.4	12.4	11.3	17.5	17.5	
Incremental De	and a second			1.1	1.1	0.0	0.0	228.2	248.4	0.4	0.1	0.1	0.2	38.6	50.1	
Initial Queue De	and the second			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (				26.8	24.0	20.6	25.6	260.0	280.1	23.8	12.4	12.5	11.5	56.1	67.6	
Level of Service		and the second		С	С	C	С	F	F	С	В	В	В	F	F	
Approach Delay		CONTRACTOR OF THE OWNER OWNER OF THE OWNER		24.4		Ċ	265.	2	F	12.9	)	В	57.8		E	
Intersection Del						12	8.2						F			
							· <b>· -</b>				- 4		•			
Multimodal Re	ultimodal Results							WB		NB		NB		SB		
Pedestrian LOS		/LOS		3.0		С	3.2		C			С	3.2		С	
Bicycle LOS Sc		Charles and the second s		0.9		A	1.7		Α	1.0	ĺ	A	2.1		В	
L				a			7.9	ž								

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	HCS 2	010 S	ignali	zed l	nters	ectior	Res	sults S	umm	ary					
	944	a ta she na		- Ma		1.00									
General Information					I	nformation									
Agency	Duration							0.25							
			Analysis Date Dec 28, 2012					Area Typ		Other					
Jurisdiction City of Phoenix			Time f		PM P		20000000000000000000000000000000000000	PHF		0.92		- 32	N N÷E	44)34 (12)14 -	
Intersection	Van Buren St/51st	Avenue	A CONTRACTOR OF THE OWNER					Analysis	Period	1> 7:0	00				
File Name	VB51 PM .xus	, trondo	17110070		. 12020							- 6			
Project Description	2015 No Build			yahpahhitatisidi kutik	ALIGNER CONTRACTORISTICS							📕	(N. 9); N. 97	<u>5</u> %	
T Toject Description	20101101000										-	1			
Demand Information	n	n v sve ke		EB	· · · · · · · · ·		W	в ********	•	NB			SB	· · · ·	
Approach Movement			L	Τ	R	L	Т	R	L	Т	R	L	T	R	
Demand (v), veh/h			323	1596	3 10	10	34	4 238	7	1313	3 102	190	1025	126	
Signal Information	ne provinski se	alterer sin hy	ļ	2				5 211	,  2K	<b>3</b>		_	ĸ		
Cycle, s 100.0		2	Į	۲ e	Ŕ	Ë	7		ē.	17 ×		<del>Q</del>		<b>K∱</b> 3	
Offset, s 0	Reference Point	End	Green	1.3	8.9	26.9	1.0	3.8	34.1			<u></u>			
Uncoordinated No		On	Yellow	3.0	3.0	3.0	3.0	3.0	3.0		<u> </u>	7	5		
Force Mode Fixed	d Simult.Gap N/S 🛝	On	Red	1.0	1.0	1.0	1.0	1.0	1.0				200		
												an de ales			
Timer Results	· · · · ·	Name of Street of Str	EBI	-	EBT	WB	L	WBT	NB		NBT	SB	-	SBT	
Assigned Phase	2014 (1912) - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 - 1914 -		5		2	1		6	3		8	7		4	
Case Number			1.1		3.0	1.1		4.0	1.1		4.0	1.1		4.0	
Phase Duration, s	9999 mg/h //////////////////////////////////		18.2		43.8	5.3		30.9	5.0		38.1	12.7		45.9	
Change Period, (Y+R	Ro), S		4.0		4.0	4.0		4.0	4.0		4.0 4.0				
Max Allow Headway	(MAH), s		3.1		0.0	and the second sec		0.0	3.1		3.1 3.1				
Queue Clearance Tin	me <i>(gs</i> ), s		13.6			2.5			2.3		27.3	8.5		29.8	
Green Extension Tim	ie (g₀), s		0.6		0.0	0.0		0.0	0.0		6.8			7.6	
Phase Call Probability	у		1.00		-	0.26			0.19		1.00	1.00	)	1.00	
Max Out Probability			0.00	)		0.00	)		0.00	)	0.35	0.01		0.23	
												u			
Movement Group Re			EB				WB					<u> </u>	SB		
Approach Movement	2111 1 2 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1		L	T	R	L	T	R	L	T	R			R	
Assigned Movement		:	5	2	12	1	6	16	3	8	18	7	4	14	
Adjusted Flow Rate (			351	1735		11	374	215	8	1039	499	207	618	600	
Adjusted Saturation F		)	1723	1723	***	1723	1810		1723	1810	1740	1723	1810	1755	
Queue Service Time	THE REPORT OF THE OWNER OWN	Part ANN IN THE OWNER WATER	11.6	39.8	0.3	0.5	7.7	11.1	0.3	25.3	25.3	6.5	27.7	27.8	
Cycle Queue Clearan	nce Time <i>(g₀</i> ), s		11.6	39.8	0.3	0.5	7.7	11.1	0.3	25.3	25.3	6.5	27.7	27.8	
Capacity (c), veh/h			443	1372	641	100	975	and in the second s	151	1236	594	251	759	736	
Volume-to-Capacity F			0.792	1.264	Statement and statements	0.109	0.383		0.050	0.841	0.841	0.822	0.815	0.816	
Available Capacity (c	and a second		632	1372	641	510	975	413	410	1566	753	376	924	896	
Back of Queue (Q), v		)	7.3	54.3	0.2	0.3	5.9	7.6	0.2	14.8	15.0	4.7	15.2	14.9	
Overflow Queue (Q3)	water and the second		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Queue Storage Ratio		e)	0.95	0.00	0.00	0.04	0.00	200 200 200 200 200	0.03	0.00	0.00	0.61	0.00	0.00	
Uniform Delay (d1), si			17.0	23.5	14.2	29.0	25.9		23.1	24.8	24.8	21.1	18.9	18.9	
Incremental Delay (da			2.7	124.9		0.2	1.1	4.6	0.1	2.8	5.6	5.3	3.9	4.1	
Initial Queue Delay (c	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDR		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/v			19.7	148.4		29.2	27.0		23.2	27.7	30.5	26.3	22.8	23.0	
Level of Service (LOS)			В	F	B	С	C	C	C	C	C	С	C	C	
Approach Delay, s/veh / LOS			126.	1	F	28.7	<u>'  </u>	С	28.5	<u> </u>	С	23.4		С	
Intersection Delay, s/	veh / LOS			80. 80. XV.	63	3.4						E			
			1			u en			1			1		en e	
Multimodal Results				EB	-	WB			NB			SB			
Pedestrian LOS Scor			2.9		<u>C</u>	3.2		C	3.0		C	3.3		C	
Bicycle LOS Score / I	LOS	]	2.2	<u> </u>	В	0.8	1	A	1.3	<u> </u>	A	1.7		A	

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		HCS 2	010 S	ignali	zed	In	terse	ectior	ı Re	su	lts S	umm	ary					
			- 11 - 16		6	- 4		19 A.	ur,									
General Informat	tion									Int	ersec	tion Inf	ormatio	on		日式市工		
Agency TASK Engineering					Duration								0.25			111	Y	
					sis Da	ate	Dec 2	8, 2012	<del>/////////////////////////////////////</del>		ea Typ	Contraction of the second s	Other	•			2	
Jurisdiction City of Phoenix			Time F	······		AM PI	-		PH	ananana anan sa an		0.92	<u> </u>		₩ ₩- ¹ Σ	ج 1997		
Intersection	In A CONTRACTOR OF THE OWNER	59th Avenue/Roose	velt St	Analys	In state of the state of the						and the second	Period	1> 7:0	าก				
File Name		59 Roo AM .xus		[ / alciye		<u>,                                    </u>				7 (1)	aryoro	1 01100	1		- 8			
Project Descriptio		2015 No Build		siya mayinin alifati tabili kinin													<u>.</u>	
T Toject Descriptio	<u>''' 1</u>	2010110 Duild											<u>.</u>			10 D		
Demand Informa	ation	harden angelen an an ar d		i de Nación de Sala	El	В			W	'B			NB		n. Exatin	SB		
Approach Movem	nent			L	T	-	R	L	] 7	•	R	L	T	R	L	Т	R	
Demand (v), veh/	'n	en la companya de la Esta de la companya d	아이에 영	127	7:	3	79	143	2	0	176	3	579	84	109	1142	91	
										<u></u>								
Signal Information	on		in an	Į	1		R €	╡╻┇	4	2	244	121	u l			5		
	00.0	Reference Phase	2		F'	Ľ-	Ľ	"≓"		S			17		$\Theta$	<u>}</u>	кфа	
Offset, s	0	Reference Point	End	Green	6.3		0.6	45.2	0.4	1 1	1.9	25.6			<b>K</b>			
Company of the second	No	Simult. Gap E/W	On	Yellow	3.0		0.0	3.0	3.0	)	3.0	3.0		7	7	5		
Force Mode F	Fixed	Simult. Gap N/S	On	Red	1.0		0.0	1.0	1.0	)	1.0	1.0				7	T	
				2.1.1							8-8-4	-						
Timer Results				EBI		E	BT	WB	L		/BT	NB		NBT	SB		SBT	
Assigned Phase				5		A-4-5-5	2	1			6	3		8	7	and the second secon	4	
Case Number			·	1.1		4	.0	1.1		4	.0	1.1		4.0	1.1		4.0	
Phase Duration, s	S			10.3		49.2		10.9	.9 49.7		9.7	4.4		29.6		3	35.5	
Change Period, (	Y+R₀),	S	· · ·	4.0		4.0		4.0	4.0 4.0		.0	4.0		4.0			4.0	
Max Allow Headw	vay (M	IAH), s		3.1		0.0		3.1		0	0.0			3.1	3.1		3.1	
Queue Clearance	e Time	(gs), s	a da se S	6.2				6.7				2.1		20.4	6.5		23.8	
Green Extension	Time (	(ge), s		0.2		0.0		0.3		0.0		0.0		5.2	0.1		5.2	
Phase Call Proba	bility			0.98	}			0.99		······		0.09	)	1.00	0.9	3	1.00	
Max Out Probabil	lity			0.00			0.00				0.00	)	0.04	0.0	)	0.03		
			an the state							- 45- 5								
Movement Group	000000000000000000000000000000000000000	ults		EB				<u> </u>		3			NB	-		SB		
Approach Movem	INCOMENCIAL AND INCOMENCE	10187747947079==1335-7235271775-837019==1927751=2777511=37757175-31977		L	T	2003444420-484	R	L	T		R	L	Т	R	L	T	R	
Assigned Moveme	CARDING TAXABLE CONTRACTOR			5	2		12	1	6		16	3	8	18	7	4	14	
Adjusted Flow Ra	conservation of the second		nanaanminenanae	138	165	wanaan baa		155	213	manana di Banan		3	368	353	118	905	435	
Construction and Construction and Construction and Construction Cons		w Rate (s), veh/h/ln		1723	165			1723	155			1723	1810	1729	1723	1810	1738	
Queue Service Ti	NAMES OF TAXABLE PARTY	CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTÓRIA DE LA CONTRACTÓRIA DE LA CONTRACTÓRIA DE LA CONTRACTÓRIA DE LA C		4.2	6.1	with the second second	*******	4.7	8.6	CHEMICAL PROPERTY		0.1	18.4	18.4	4.5	21.8	21.8	
Cycle Queue Clea	une and the second	e Time <i>(g₀</i> ), s		4.2	6.1			4.7	8.6			0.1	18.4	18.4	4.5	21.8	21.8	
Capacity (c), veh/	Adda to the second s			600	747		•	191	712	INSTRUMENTS		118	464	443	232	1141	548	
Volume-to-Capac		NAMES OF A DESCRIPTION OF A		0.230	0.22			0.815	0.29			0.028	0.793	0.796		0.794	0.794	
Available Capacity	Construction Construction Construction	an a		1113	747			693	712	TRATILITY OF THE OWNER		386	827	790	399	1866	896	
A second s		l/In (95th percentile)		2.8	4.3			3.4	5.7	sami qaza		0.1	11.7	11.3	3.1	12.9	12.6	
Overflow Queue (	Non-supervision of the supervision of the supervisi	Construction and the second		0.0	0.0	)		0.0	0.0	ARRIVA CONTRA		0.0	0.0	0.0	0.0	0.0	0.0	
A proprieta a second	the second s	RQ) (95th percentile	) *******	0.37	0.0	annailtean		0.44	0.00	cuminter and		0.01	0.00	0.00	0.40	0.00	0.00	
Uniform Delay (d1	1), s/ve	h		13.2	16.			22.8	17.1			28.6	30.5	30.5	23.0	26.2	26.2	
Incremental Delay	y (d2),	s/veh		0.1	0.7	7	· . · · ·	3.2	1.1			0.0	1.2	1.3	0.6	0.5	1.0	
Initial Queue Dela	ay (d3)	, s/veh		0.0	0.0			0.0	0.0	Γ		0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh		13.2	17.4	4		26.0	18.1			28.6	31.7	31.8	23.7	26.6	27.2			
Level of Service (LOS)			В	В			C	В	I		С	С	С	C	C	C		
Approach Delay, s/veh / LOS		15.5	5_[		B	21.5	j	(	C	31.7	<u>'</u>	С	26.6	3	С			
Intersection Delay	y, s/ve	h/LOS			- American e Entra		26	6.0							C			
Multimodal Resu	ults			······	EE	3	••••	WB					NB		SB			
Pedestrian LOS S	Score /	LOS		3.2		(	c	2.9		(	C	2.3		В	2.3		В	
Bicycle LOS Scor	re / LO	S		1.0			A	1.1		1	A	1.1		A	1.3		Α	

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	Vicent Difference and Dec	HCS 2	010 S	ignali	ized	l Int	ters	ectior	۱Re	esu	lts S	umm	ary					
General Information												tion Inf						
Agency TASK Engineering											iration		0.25	11-1-1-11/1/1/1-1-1-11/1/			2	
				merena ana m			8, 2012			ea Typ	00	Othe	-		14	20		
Jurisdiction		City of Phoenix		Time I		menore and the second second	PM P	k Hr		PH	łF		0.92			vr ∔ E s	- - -	
Intersection		59th Avenue/Roose	evelt St	Analys	sis Ye	ear [	2020			An	alysis	Period	1> 7:	00				
File Name		59 Roo PM .xus		ero Distance Annual Horseburg			244292422525440424		4 hm Gd2x1x bittetha		251 hait 151 m mbalan marai	nya kanta kana kana kana kana kana kana ka			-	11r		
Project Descrip	tion	2015 No Build							makankatantak		foren di matana				5	8.3.8.5	8 <b>6</b>	
												· ·						
Demand Inform	NAMES AND ADDRESS OF ADDRES				E					VB	<b>-</b>		NB	<b>I</b>		SB	dipublicana and	
Approach Move		· · · · · · · · · · · · · · · · · · ·			T	Normation	R	L		T	R		T	R	L		R	
Demand (v), ve	h/h			53	7	3	5	31	4	45 ·	196	6	939	157	154	1017	118	
Signal Informa	tion			1	<b>1</b>	I		- I - •	- 1		-1-116-	- I II:						
Cycle, s	100.0	Reference Phase	2			e-	2			9	1246				<b>x</b>	5	小	
Offset, s	0	Reference Point	End				R'			ſ			17 <b>-</b>		$\mathbf{A}$			
Uncoordinated	No	Simult. Gap E/W	On	Green			1.0	35.1	0.		2.4	37.8	3		<u>s</u>			
Force Mode	Fixed	Simult. Gap E/W	On	Yellow Red	/ <u>3.0</u> 1.0		0.0	3.0 1.0	<u>3</u> . 1.		3.0	3.0			Y	<u> </u>	Y	
Force Mode	rixeu	Sintuit. Gap 14/5		Red	11.0		0.0	11.0	<u> </u> 1.	.0	11.0	11.0						
Timer Results				EBI	<b>-</b>		BT	WB	. 1	١٨	/BT	NBI		NBT	SB		SBT	
Assigned Phas	~	2101122-000-00-00-000-000-000-000-00-00-00-00		5			2	1	<u> </u>		6	3	-	8	7		4	
Case Number	6	oran manana ang kanana kanana manana kanana kana		5 1.1		//////////////////////////////////////	.0	1.1			.0	1.1		4.0	, , 1.1		4.0	
Phase Duration	~ ~			8.0			.0 ).0	7.0			9.1	4.8		41.8	11.2		4.0	
1 1011 11 10 10 10 10 10 10 10 10 10 10	Minamorosennövoundustäheitus		10 10 10 10 10 10 10 10 10 10 10 10 10 1			NA-17A/11A-11/1	.0 .0	4.0	CONTRACTOR OF CONTRACTOR		9.1 .0	4.0 4.0	STATEMENT AND	41.0	4.0	enterio de constituer de milinion fam	40.1	
Change Period				4.0				(							2			
Max Allow Hea	WARTS TO THE DOLLARS TO A DESCRIPTION OF THE DESCRI			3.1		U.	.0	3.1		U	0.0	3.1		3.1	3.1		3.1	
Queue Clearan				4.1		~	~	3.2		~		2.2		32.6	7.1		15.8	
Green Extensio		( <i>ge)</i> , s		0.1		0	.0	0.0		U	0.0	0.0		5.2	0.2		6.8	
Phase Call Pro	Manager and Street of Stre		0.0000.0000.0000.0000.0000.0000.0000.0000	0.80				0.61				0.17		1.00	0.99		1.00	
Max Out Proba	DIIITY			0.00	וי			0.00	וי			0.00	<u>י</u> ן י	0.38	0.00	)	0.03	
Movement Gro	un Res	rilte	· · · · · · · · · · · · · · · · · · ·		EE	२ २			W	R			NB		1	SB		
Approach Move			****	1	Т	- T	R		ГТ	Ē	R		T	R		Т	R	
Assigned Move		1999 - Marcanne Anne Anne Anne Anne Anne Anne		5	2	Antiintim aikkin	12	1	6	ununun kara	16	3	8	18		4	14	
Adjusted Flow		veh/h		58	85			34	26	****		7	610	581	167	837	396	
(and a series of the second		w Rate (s), veh/h/ln	*****	1723	178		TANK OF STREET,	1723	157	*****	annatatatatatatatatatatatatatata	1723	1810	1719	1723	1810	1710	
Queue Service				2.1	3.2			1.2	12.	and the second second		0.2	30.4	30.6	5.1	13.8	13.8	
Cycle Queue C				2.1	3.2			1.2	12.	unicenses and		0.2	30.4	30.6	5.1	13.8	13.8	
Capacity (c), ve	In the second	c Time (90), 5		380	644	and the second second	And the second	150	55			219	683	649	229	1597	754	
Volume-to-Cap	v	otio /X1		0.152	0.13	ana	******	0.225	0.4	indiana and in the little		0.030	0.893	0.895	0.732	0.525	0.525	
Available Capa	1999 - Congress - Ball - Ba	terriskan terrisk federande ferrariet entet Kommanen at natie filme i Steller AUSSIC Mer 2000 (Steller Billion		709	644	COLUMN STATE	- zegostanaense	495	55	Constant Sector		480	811	770	380	1852	875	
No		venni v/in (95th percentite)	· · · ·	1.5	2.5		·	0,9	8.9			¹ 0.2	18.4	17.8	3.4	8.2	7.9	
Overflow Queu		and the second	araman manananan d	0.0	0.0	al management of the second		0.0	0.0			0.2	0.0	0.0	0.0	0.2	0.0	
Contraction and a contract of the second		RQ) (95th percentile	<b>)</b>	0.0	0.0			0.0	0.0			0.02	0.00	0.00	0.0	0.00	0.00	
Uniform Delay			)	19.6	21.		TRUCK ADDINE TO	25.2	25.	and the second diversion of		19.2	23.0	23.0	21.4	14.3	14.3	
Incremental De				0.1	0.4			0.3	2.9			0.0	10.0	10.6	1.7	0.1	0.2	
CONTRACTOR DATE OF CONTRACTOR DA	And the second	*******			0.4							anna ann ann ann ann ann ann ann ann an		planticettinin territorite	Service and the service of the servi	11771/1017060000000000000000	anna ann an taraig an	
Initial Queue De	Contractor of the Contractor of the		· · ·	0.0 19.7	21.			0.0 25.4	0.0 28.			0.0 19.2	0.0 33.0	0.0 33.7	0.0	0.0 14.4	0.0 14.6	
Control Delay (	CONTRACTOR OF STREET, ST	1		B	21. C	3 		25,4 C	_∠o. C	massa daras		19.2 B	33.0 C	33.7 C	23,1 C	14.4 B	14.0 B	
Level of Service (LOS)		<u> </u>			<b></b>	27.9				0.0			15.5		B			
Approach Delay, s/veh / LOS Intersection Delay, s/veh / LOS		21.0				L. Constant of the second second	<u> </u>	C 33.2 C					И.,	<u>'  </u>	D			
mersection De	ay, s/ve	at / LOS		I				1.0							С			
Multimodal Re	eulte			-	EE	2 2	1   	(	WD I				NB		l	99		
Pedestrian LOS		/105		3.2		, (		2.9 WB			c	2.3		В	2.3	SB 2.3 B		
Bicycle LOS Sc				0.7		ر م		1.0			A	2.3 1.5		A	2.3 1.3			
Dicycle LUS SC	UIG / LC	/0		0.7		F	<u>۲</u>	1.0			<u>~</u>	6.1		~	1.3	l	A	

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	TW	O-WAY STOP	CONTR	OL S	UMN	/IARY						
General Informatio	n		Site II	nform	natio	on						
Analyst	kmh		Interse	ction			59th Avenue/Fillmore Street					
Agency/Co.	TASK		Jurisdi	ction	•		City of Ph	oenix				
Date Performed	12/31/20 ⁻		Analys	is Yea	r		2015					
Analysis Time Period	PM Pk Hi	-										
Project Description 20												
East/West Street: Fillm						t: 59th Av	renue		1			
Intersection Orientation:			Study F	Period	(hrs)	: 0.25						
Vehicle Volumes ai	<u>nd Adjustme</u>											
Major Street		Northbound					Southbou	ind				
Movement	1	2 T	3 R			4	5 T		<u>6</u> R			
(Johnson (John)	L 	980	ĸ			L	686		<u> </u>			
Volume (veh/h) Peak-Hour Factor, PHF	0.92	0.92	1.00			1.00	0.92		0.92			
Hourly Flow Rate, HFR							1		*****			
(veh/h)	39	1065	0			0	745		32			
Percent Heavy Vehicles	5					0						
Median Type		Two Way Left Turn Lane										
RT Channelized			0						0			
_anes	1	2	0			0	2		1			
Configuration	L	Т					Т	<i>R</i>				
Jpstream Signal		0					0					
Minor Street		Eastbound					Westbou	nd				
Movement	7	8	9			10	11		12			
	L	T	R			L	Т		R			
Volume (veh/h)	32	1.00	2 0.92			4.00	4.00		4.00			
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	1.00	1			1.00	1.00		1.00			
veh/h)	34	0	2			0	0		0			
Percent Heavy Vehicles	5	0	5			0	0		0			
Percent Grade (%)		0	•				0					
Flared Approach		N					N					
Storage		0					0					
RT Channelized			0						0			
Lanes	0	0	0		0		0		0			
Configuration		LR										
Delay, Queue Length, a	and Level of Se	rvice										
Approach	Northbound	Southbound	1	Nestb	ound		Ε	Eastbound	ł			
Movement	1	4	7	8		9	10	11	12			
ane Configuration	L	· · · · · · · · · · · · · · · · · · ·	· · · · · ·					LR				
/ (veh/h)	39							36	1			
C (m) (veh/h)	816							272	-			
	0.05							0.13	+			
95% queue length	0.05							0.15				
							<b> </b>	20.2				
Control Delay (s/veh)	9.6											
_OS	Α							C				
Approach Delay (s/veh)							ļ	20.2				
Approach LOS								С				

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	TW	O-WAY STOP	CONTR	OL SI	JMN	IARY			······································			
General Informatio	n	<u>,</u>	Site I	nform	atio	n						
Analyst	kmh		Interse	ection			59th Avenue/Fillmore Street					
Agency/Co.	TASK		Jurisdi			· · · · ·	City of Pl					
Date Performed	12/28/20	12	Analys	sis Year	r		2015					
Analysis Time Period	AM Pk H	r										
Project Description 20	015 No Build											
East/West Street: Fillm						: 59th Av	enue					
Intersection Orientation:			Study I	Period (	(hrs):	: 0.25						
Vehicle Volumes a	<u>nd Adjustme</u>											
Major Street		Northbound					Southbou	Ind				
Movement	1	2	3			4	5		6			
Values (rahih)	L 	<u>Т</u> 659	R			L	T		R			
Volume (veh/h) Peak-Hour Factor, PHF	0.92	0.92	1.00			1.00	834 0.92		<u>22</u> 0.92			
Hourly Flow Rate, HFR			1									
(veh/h)	13	716	0		0		906		23			
Percent Heavy Vehicles	5		0				a a a a a a a a a a a a a a a a a a a					
Median Type												
RT Channelized			0			·· ·			0			
Lanes	1	2	0			0	2		1			
Configuration	L	<i>T</i>					Т		R			
Upstream Signal		0					0					
Minor Street		Eastbound				-	Westbou	nd				
Movement	7	8	9			10	11		12			
	L	Т	R			L	T		R ·			
Volume (veh/h)	24	4.00	36 0.92			4 00	1.00		4.00			
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	1.00	0.92			<u>1.00</u>	1.00		1.00			
(veh/h)	26	0	39	1	0		0		0			
Percent Heavy Vehicles	5	0	5			0	0		0			
Percent Grade (%)		0					0					
Flared Approach		N					N	1				
Storage		0					0					
RT Channelized			0						0			
Lanes	0	0	0			0	0		0			
Configuration		LR										
Delay, Queue Length, a	and Level of Se	rvice										
Approach	Northbound	Southbound	١	Nestbo	und		1	Eastboun	d			
Movement	1	4	7	8	ſ	9	10	11	12			
Lane Configuration	L				-1			LR				
v (veh/h)	13							65				
C (m) (veh/h)	714			-				270				
v/c	0.02							0.24				
95% queue length	0.06							0.92				
Control Delay (s/veh)	10.1				+			22.5				
LOS	B							C				
Approach Delay (s/veh)			I					22.5	<u> </u>			
Approach LOS								C				
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	TW	O-WAY STOP	CONTR	OL SU	MN	IARY					
General Information	n		Site I	nforma	atio	n					
	kmh		Interse	otion			Van Bure	n Stree	et/61s	st	
Analyst Agency/Co.	TASK						Avenue				
Date Performed	1/1/2013		Jurisd				City of Pl	ioenix			
Analysis Time Period	AM Pk Hi	*	-Analys	sis Year			2015				
		·									
Project Description 20 East/West Street: Van I			North (	Couth Ct	root	: 61st Av	00000				
East west Street: van I				Period (h			enae				
			Study	-enoù (i	115).	0.20					
Vehicle Volumes ar	nd Adjustme	and a second s					Ma ath an				
Major Street		Eastbound				4	Westbou	ina I		6	
Movement	1	<u>2</u> Т	3 R			<u>4</u>	5 T			<u>6</u> R	
Volume (veh/h)	-	1284	47			<u> </u>	218			7	
Peak-Hour Factor, PHF	0.92	0.92	0.92			0.92	0.92		1	.00	
Hourly Flow Rate, HFR											
(veh/h)	0	1395	51			1	236			0	
Percent Heavy Vehicles	5		·			5					
Median Type				Vay Left	t Tur	n Lane					
RT Channelized			0					0			
Lanes	0	2	0			1	2			0	
Configuration		Т	TR			L	Т				
Upstream Signal		0					0				
Minor Street		Northbound					Southbou	ind			
Movement	7	8	9			10	11			12	
	L	Т	R			L	Т			R	
Volume (veh/h)	5		15								
Peak-Hour Factor, PHF	0.92	0.92	0.92			1.00	0.92		0	.92	
Hourly Flow Rate, HFR (veh/h)	5	0	16			0	0			0	
Percent Heavy Vehicles	5	5	5			0	5			5	
Percent Grade (%)		0	-				0	I		_	
Flared Approach		N					N N				
Storage		0					0				
RT Channelized			0				Ť			0	
Lanes	0	0	0			0	0			0	
Configuration	+		- <u> </u>			×	†			~	
Delay, Queue Length, a	nd Level of So		1								
Approach	Eastbound	Westbound		Vorthbou	und			outhbo	ound		
Movement	1	4	7	8		9	10	11		12	
Lane Configuration	*	L		LR	+	~			<u> </u>	: h	
v (veh/h)		1		21	-+						
C (m) (veh/h)		, 450		302	-+		1				
		0.00		0.07							
		0.00		0.07							
95% queue length					-						
Control Delay (s/veh)		13.0		17.8	-+		<u> </u>				
_OS		В		C			<u> </u>			•	
Approach Delay (s/veh)				17.8			<u> </u>				
Approach LOS				С							

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	TW	O-WAY STOP	CONTR		MARY						
General Information	 1		Site I	nformat	ion			<u>.</u>			
Analyst	kmh		Interse	ection		Van Bure	n Street/	61st			
Agency/Co.	TASK			ation		Avenue	aanhi				
Date Performed	1/1/2013		Jurisdi			City of Pl 2015					
Analysis Time Period	PM Pk Hi	*	Analys	is Year		2015					
Project Description 20	15 No Build										
East/West Street: Van I			North/S	South Stre	et: 61st A	venue					
Intersection Orientation:				Period (hrs		101100					
Vehicle Volumes ar		nte	17								
Major Street		Eastbound		<u> </u>		Westbou	nd				
Movement	1	2	3		4	5		6			
Novement	i i	Т	R		Ĺ	T T		R			
Volume (veh/h)		248	10		41	1045					
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		1.00			
Hourly Flow Rate, HFR (veh/h)	0	269	10		44	1135		0			
Percent Heavy Vehicles	5				5						
Median Type			Two V	Vay Left T	um Lane		·····				
RT Channelized	1000 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0				0				
Lanes	0	2	0		1	2		0			
Configuration		Т	TR		L	T					
Upstream Signal		0				0					
Minor Street		Northbound				Southbou	ınd				
Movement	7	8	9		10	11		12			
	L	Т	R		L	Т		R			
Volume (veh/h)	12		13								
Peak-Hour Factor, PHF	0.92	0.92	0.92		1.00	0.92		0.92			
Hourly Flow Rate, HFR (veh/h)	13	0	14		0	0		0			
Percent Heavy Vehicles	5	5	5		0	5		5			
Percent Grade (%)		0				0					
Flared Approach		N				N					
Storage		0				0					
RT Channelized			0		· · · · · · · · · · · · · · · · · · ·			0			
Lanes	0	0	0		0	0	· _	0			
Configuration		LR									
Delay, Queue Length, a	nd Level of Se	rvice									
Approach	Eastbound	Westbound		Vorthboun	d	S	outhbour	nd			
Movement	1 '	4	7	8	9	10	11	12			
Lane Configuration		L		LR							
v (veh/h)		44		27							
C (m) (veh/h)		1259		523	1						
//c		0.03		0.05	-			-			
95% queue length		0.00		0.00							
		8.0	<u> </u>	12.3	1	+					
Control Delay (s/veh)											
LOS		A		B	1	- <u> </u>	l				
Approach Delay (s/veh)				12.3				····			
Approach LOS				В		1					

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	TW	O-WAY STOP	CONTR		IMARY				
General Information	n		Site	nformat	ion				
Analyst	kmh		Inters	ection			en Street/	63rd	
Agency/Co.	TASK					Avenue	· · · ·	· ·	
Date Performed	1/1/2013		Jurisd			City of Pl	hoenix		
Analysis Time Period	AM Pk H		Analy	sis Year		2015			
<b>.</b>									
Project Description 20 East/West Street: Van			Month	Carilla Céra	at cord A				
Eastwest Street: van I				Period (hr	et: 63rd A	venue			
			Joluuy	Fenou (ni	5). 0.20				
Vehicle Volumes ar	<u>na Aajustme</u>					144			
Major Street		Eastbound	2		4	Westbou	ina	6	
Movement		2 T	3 R		4	5 T		R	
Volume (veh/h)		1317	48		5	235	<u> </u>		
Peak-Hour Factor, PHF	0.92	0.92	0.92	2	0.92	0.92		1.00	
Hourly Flow Rate, HFR (veh/h)	0	1431	52		5	255		0	
Percent Heavy Vehicles	5				5				
Median Type	<del> </del>	1	Two	Nay Left 1	_	1	I		
RT Channelized			0					0	
Lanes	0	2	0		1	2		0	
Configuration		<u>_</u>	TR		Ĺ	<u>-</u> T	· · · · · · · · · · · · · · · · · · ·		
Upstream Signal		0				0			
Minor Street		Northbound				Southbou	und l		
Movement	7	8	9		10	11		12	
	L	Т	R		L	T		R	
Volume (veh/h)	6		14						
Peak-Hour Factor, PHF	0.92	0.92	0.92	2	1.00	0.92		0.92	
Hourly Flow Rate, HFR (veh/h)	6	0	15		0	0		0	
Percent Heavy Vehicles	5	5	5		0	5		5	
Percent Grade (%)		0				0			
Flared Approach		N				N			
Storage		0				0			
RT Channelized			0	- I				0	
Lanes	0	0	0	1	0	0		0	
Configuration		LR	1						
Delay, Queue Length, a	nd Level of Se	rvice	-	•		-			
Approach	Eastbound	Westbound		Northbour	ıd	5	Southbour	nd	
Movement	1	4	7	8	9	10	11	12	
ane Configuration		L.		LR					
v (veh/h)		5		21	1	1			
C (m) (veh/h)		435		276				-	
//c	· · · · · · · · · · · · · · · · · · ·	0.01		0.08	+	+		+	
95% queue length		0.07		0.25	-				
Control Delay (s/veh)		13.4		19.1	-				
					-				
		В		C	1				
Approach Delay (s/veh)				19.1					
Approach LOS				С					

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	тм	O-WAY STOP	CONTR	OL SUM	MARY					
General Information	า		Site I	nformati	ion					
Analyst	kmh		Interse	ection		Van Bure Avenue	n Street/	63rd		
Agency/Co.	TASK		Jurisdi	ation			hooniv			
Date Performed	1/1/2013			is Year	0	City of Pl 2015	ioeriix			
Analysis Time Period	PM Pk H	r	Analys	as rear		2015				
Project Description 20	15 No Build		•••••							
East/West Street: Van I	Buren Street		North/S	South Stre	et: 63rd A	venue				
ntersection Orientation:	East-West		Study I	Period (hrs	s): <i>0.25</i>					
/ehicle Volumes ar	nd Adjustme									
Wajor Street		Eastbound				Westbou	Ind			
Movement	1	2	3		4	5		6		
	L	Т	R		L	Т		R		
/olume (veh/h)		263	10		41	1060				
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.92	0.92		1.00		
lourly Flow Rate, HFR veh/h)	0	285	10		44	1152		0		
Percent Heavy Vehicles	5				5					
/ledian Type			Two V	Vay Left T	urn Lane					
RT Channelized			0				2			
anes	0	2	0		1	2		0		
Configuration		T	TR		L	T				
Jpstream Signal	<u> </u>	0				0				
/linor Street		Northbound	_			Southbou	und			
Novement	7	8	9		10	11		12		
	L	Т	R		L	Т		R		
/olume (veh/h)	12		12							
Peak-Hour Factor, PHF	0.92	0.92	0.92		1.00	0.92		0.92		
lourly Flow Rate, HFR veh/h)	13	0	13		0	0		0		
Percent Heavy Vehicles	5	5	5		0	5		5		
Percent Grade (%)		0				0				
lared Approach		N				N				
Storage		0				0				
RT Channelized			0					0		
anes	0	0	0		0	0		0		
Configuration		LR								
Delay, Queue Length, a										
pproach	Eastbound	Westbound		Vorthboun	-		outhbour			
lovement	1	4	7	8	9	10	11	12		
ane Configuration		L		LR						
r (veh/h)		44		26				_		
C (m) (veh/h)		1242		505	<u> </u>					
//c		0.04		0.05				_		
15% queue length		0.11		0.16				_		
Control Delay (s/veh)		8.0		12.5						
.OS		A		В						
03										
pproach Delay (s/veh)				12.5			· · · · · · · · · · · · · · · · · · ·			

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## APPENDIX A

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## 2030 NO BUILD

		HCS 2	010 S	ignali	zed l	nters	ectior	n Res	sults S	umm	ary				
General Inform	nation								Intersec	tion Inf	ormatio	on	ij	<b>ABB</b>	E C
Agency		TASK Engineering							Duration	, h	0.25			*	ية. الت
Analyst		Ken Howell		Analys	sis Date	Dec 3	0, 2012		Area Typ	00	Other	•			
Jurisdiction		City of Phoenix		Time F	Period	AM P	k Hr		PHF		0.92			ж <u>-</u> Е 3	2 2 2
Intersection		59th Avenue/Roose	evelt St	Analys	sis Year	2030			Analysis	Period	1> 7:0	00			
File Name		59 Roo AM .xus	NICE COLUMN AND AND AND AND AND AND AND AND AND AN											5.t⊮	5.5
Project Descrip	tion	2030 No Build											Ā	A A A A	8 %
Demand Inform					EB			WE		8) - 368 BB	NB			SB	
Approach Move	ement			L	<u> </u>	R	L	T	R	L	T	R	L	Т	R
Demand (v), ve	h/h			154	76	94	68	28	88	74	1352	2 106	91	891	16
						<u></u>			- 1 111	- 1 II:					
Signal Informa					3.			Ë ,	»  2U	, 2K	۵ L			K.	
Cycle, s	100.0	Reference Phase	2		F" 4	Ř	i <b>F</b>	۱ ۱		5	17 <b>-</b>		<b>\$</b>	] ]	¥
Offset, s	0	Reference Point	End	Green		0.1	24.3	4.5	0.3	46.3			A		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	Sector Se	3.0	3.0	3.0	0.0	3.0			V ]	2	_ ¶ P
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	1.0	1.0	1.0	0.0	1.0				7	
Time De H					- 1	EDT	1 State	1	MOT			NOT	SB		SBT
Timer Results	in a line have a			EB		EBT	WB		WBT 6	NBI 3		NBT 8	<u>зы</u> 7	-	4
Assigned Phase	e		n, is a statistica	5 1.1		2	1 ি 1.1	N. 10	4.0	3 1.1		o 4.0	<u> </u>	NUL TAL	4.0
Case Number					-	32.4	8.6		28.3	8.5		50.3	8.8		4.0 50.6
Phase Duration			anti grada	12.7			<u> </u>		4.0	0.5 4.0		4.0	4.0		4.0
Change Period	Contraction of the second s			4.0		4.0	3.1		0.0	3.1		3.0	4.0		3.0
Max Allow Head	Contrained in the last of the		1414144	3.1	- 144 (145)	0.0	5.1 5.2		0.0	3.1 4.4		44.1	5.0		11.1
Queue Clearan	A Provide a standard and and	a particular and a strangeneral strangeneral strangeneral strangeneral strangeneral strangeneral strangeneral s		8.6 0.2		0.0	0.1		0.0	4.4 0.1		2.1	0.1		7.5
Green Extensio Phase Call Pro		(ye), s		0.2		0.0	0.1		0.0	0.1		1.00	0.94		1.00
Max Out Proba		· · · · · · · · · · · · · · · · · · ·		0.00			0.00			0.08		0.99	0.00		0.05
Wax Out Ploba	Dinty			0.00	, I				1. N. A. A.	0.00		0.33		, I	0.00
Movement Gro	oup Res	ults			EB			WB			NB			SB	
Approach Move				L	Т	R	L	Т	R	L	T	R	L	Т	R
Assigned Move			1985 N	5	2	12	18 <b>1</b> - 8	6	16	3	8	18	- 7 -	4	14
Adjusted Flow I		, veh/h		167	185		74	126		80	799	786	99	659	327
	and the second	w Rate (s), veh/h/in	1378333	1723	1646	1956-58	1723	1592	, sites	1723	1810	1763	1723	1810	1792
Queue Service	Time (g	(s), S		6.6	9.1		3.2	6.5		2.4	41.1	42.1	3.0	9.1	9.1
Cycle Queue C	and the second state of th			6.6	9.1	2223	3.2	6.5	NESSAN	2.4	41.1	42.1	3.0	9.1	9.1
Capacity (c), ve		N-10121010000000000000000000000000000000		439	467		375	387		356	837	816	167	1685	834
Volume-to-Cap	acity Ra	itio (X)		0.381	0.395		0.197	0.325	5	0.226	0.954	0.964	0.593	0.391	0.392
Available Capa	city (ca),	, veh/h		583	467		589	387		554	855	833	361	1720	852
Back of Queue	(Q), vel	n/In (95th percentile)	16082	4.6	6.9		2.3	4.8		1.6	24.1	24.5	2.0	5.7	5.7
Overflow Queu	e (Q3), V	/eh/ln		0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Queue Storage	Ratio (	RQ) (95th percentile	) 1999	0.80	0.00		0.40	0.00		0.28	0.00	0.00	0.35	0.00	0.00
Uniform Delay	(d1), s/v	eh .		21.5	28.9		26.5	31.1		13.0	18.2	18.4	22.8	11.9	11.9
Incremental De	lay (d2),	s/veh	8688.98	0.2	2.5		0.1	2.2		0.1	19.9	22.2	1.3	0.1	0.1
Initial Queue De	elay (d₃)			0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (	d), s/veł	<b>)</b>		21.7	31.4		26.6	33.3	1.1.1.1.1	13.1	38.1	40.6	24.0	11.9	12.0
Level of Service	e (LOS)			С	С		С	_ C		В	D	D	С	В	В
Approach Delay	y, s/veh	7LOS		26.8	3	C .	30.8	3	С	38.1		D	13.0	)	В
Intersection De	ersection Delay, s/veh / LOS				28	3.2					1707 N (2400 miles)	С		and the second	
	imodal Results				EB			WB		tereser -	NB	499.992	- 360366	SB	
Pedestrian LOS				3.2	and the second	С	3.0		С	2.3		В	2.3		В
	core / LC	10 ^{, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10}	2222.222 <b>.</b>	1.1	- 10. E	A N	0.8	1.14	A	1.9		•• <b>A</b> •••••	1.1	- 10 <b>-</b> 17 -	A

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	HCS 2	010 S	ignali	zed I	nters	ection	Res	sults S	umm	ary				
<b>General Information</b>								Intersec	tion Inf	ormatic	on	9	A CAR B	
Agency	TASK Engineering							Duration	, h	0.25			411	2
Analyst	Ken Howell		Analys	sis Date	Jan 2	8, 2013		Area Tyr	e	Other				15 SEC.
Jurisdiction	City of Phoenix		Time F		PM P			PHF		0.92		1 1 1	×- E	
Intersection	59th Avenue/Roose	evelt St	Analys	sis Yea	2030			Analysis	Period	1> 7:(	00			
File Name	59 Roo PM .xus		<u> </u>										5 ተ የቀ	
Project Description	2030 No Build					on						A	AL IL M PL	26
Demand Information				EB		8 8888	WE	3 22222		NB		1	SB	
Approach Movement			L	Т	R	L	Т	R	L	T	R	L	Т	R
Demand (v), veh/h			44	33	58	148	45	121	67	1014	75	87	1537	63
Signal Information		NERSONA N		2	E E	╘┥╻┇	L I	5   ells	,  2U	ى ا د		_		$\mathbf{A}$
Cycle, s 100.0	Reference Phase	2		۲° ۲	<b>1</b> ĕ	Ĩ	<u>ہ</u> ["		e.	17 4		<b>e</b>		<b>×</b> ↓ <b>×</b>
Offset, s 0	Reference Point	End	Green	3.7	4.0	33.0	4.3	0.6	38.4			<b>x</b>		
Uncoordinated No	Simult. Gap E/W	On	Yellow		0.0	3.0	3.0	0.0	3.0		<u> </u>	$\mathbf{\nabla}$		- - 
Force Mode Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	0.0	1.0		5	\$	7	<u> </u>
Timer Results			EB	NG 43.	EBT	WB	L	WBT	NB	1981 <u>(19</u> 8	NBT	SB		SBT
Assigned Phase			5		2	1		6	3		8	7		4
Case Number	Ye set ye dê kardî ji de gerşe	an sa siya	<u>े</u> ंग 1		4.0	1.1	1999 - 19	4.0	ai 11	- 135 - N	4.0	1.1	- 194 <u>8</u> - 193	4.0
Phase Duration, s			7.7	ļ	37.0	11.6	3	41.0	8.3	·	42.4	9.0		43.0
Change Period, (Y+R	), s ^{indenda} lin nasterat	1993 (1993) 1993 (1993)	4.0	- 1851 - 657	4.0	4.0		4.0	4.0	1284 - 22	4.0	4.0	, NU NA	4.0
Max Allow Headway (	MAH), s	2×2	3.1	l	0.0	3.1		0.0	3.1		3.0	3.1		3.0
Queue Clearance Tim	e (gs), s		3.8	942 Q		7.5	. 88 V		4.5		31.0	5.3	1946 (PA)	29.2
Green Extension Time			0.1		0.0	0.2		0.0	0.1	l	7.4	0.1		7.8
Phase Call Probability			0.74	1 IX I IX		0.98	<b>)</b> (1) (1)	ener en	0.87	7	1.00	0.93	3 33 25	1.00
Max Out Probability			0.00		Real of the second s	0.00			0.00		0.39	0.00	)	0.33
<b>Movement Group Re</b>	sults			EB			WB			NB			SB	
Approach Movement			L	Т	R	L	Т	R	L	Т	R	L	Т	R
Assigned Movement			5	2	12	8 <b>1</b> ,8	6	16	ાં ર	8	18	7	4	14
Adjusted Flow Rate (v	), veh/h		48	99		161	180		73	599	585	95	1167	572
Adjusted Saturation F	ow Rate (s), veh/h/ln	Nessel.	1723	1623		1723	1600	1.55353	1723	1810	1765	1723	1810	1771
Queue Service Time (	gs), s		1.8	4.3		5.5	8.0		2.5	28.9	29.0	3.3	27.2	27.2
Cycle Queue Clearan	ce Time (g₀), s		1.8	4.3		5.5	8.0	i sever	2.5	28.9	29.0	3.3	27.2	27.2
Capacity (c), veh/h			473	536		563	592		178	694	677	200	1411	691
Volume-to-Capacity R	atio (X)		0.101	0.185	-163333	0.286	0.305	5 (0.000)	0.408	0.863	0.864	0.472	0.827	0.828
Available Capacity (ca	), veh/h		835	536		857	592		379	851	830	391	1725	844
Back of Queue (Q), ve	h/In (95th percentile)	) ******	1.3	3.1	93633	3.8	5.7	9,999,99	1.8	16.9	16.7	2.3	15.0	15.4
Overflow Queue (Q3),			0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Queue Storage Ratio		<b>)</b> Nation	0.17	0.00	8333	0.49	0.00	10433	0.23	0.00	0.00	0.29	0.00	0.00
Uniform Delay (d1), s/		*******	20.7	23.9	Î	16.3	22.4		21.6	22.1	22.1	21.7	21.2	21.2
Incremental Delay (dz			0.0	0.8		0.1	1.3		0.6	6.7	6.9	0.6	2.4	4.8
Initial Queue Delay (d			0.0	0.0	1	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/ve			20.7	24.6		16.4	23.7	1933	22.2	28.8	29.0	22.4	23.6	26.0
Level of Service (LOS			С	С		В	С		С	С	С	С	С	C
Approach Delay, s/vel			23.4		С	20.3			28.		С	24.3		
Intersection Delay, s/v		A		<u>I</u>		5.3	<u> </u>		l			С		
interestion bondy, on			H.						n 			an a		
		no-contraction of the		EB			WB		1	NB		I	SB	
Multimodal Results	이 방법에 가지 않는 것이 있는 것이 없는 것이 없는 것이 없다.	es de constant		C LD	and the second second		···· 9 9 C				·		00	
Multimodal Results Pedestrian LOS Score	•/LOS	na shekarar	3.2		С	2.9		С	2.3		В	2.3		В

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[		HCS 2	010 S	ignali	zed I	nterse	ectior	n Res	sults S	umm	ary				
							4-16-16-			1. 1. 1.					
General Informat	tion								Intersec	tion Inf	ormatio	on	3	สุขสา	R V
Agency		TASK Engineering	aganajahan minambahain (mail					Î	Duration	, h	0.25				
Analyst		Ken Howell	*******	Analys	is Date	e Dec 3	0, 2012	0020342404044	Area Typ	e	Other	•			
Jurisdiction		City of Phoenix		Time F	Period	AM PI	< Hr		PHF		0.92		136	w + E	1. F.
Intersection		Van Buren St/51st /	Avenue	Analys	is Yea	r 2030		14.000 FOR 100	Analysis	Period	1> 7:	00			
File Name		VB51 AM .xus													
Project Descriptio	n	2030 No Build			0001120201002040444444	7,66,9,99,99,99,99,99,99,99,99,99,99,99,9				22-24 III 2010 2010 2010 2010 2010 2010 2010	nenanan menangka di semi se	Anna Canada Angala ang kang kang kang kang kang kang kang	ন ন	计正理学	2. C.
Demand Informa	tion				EB			W			NB	A spinister of sources of the project of the		SB	
Approach Movem				L	<u> </u>	R	L	T		L	T	R	L	T	R
Demand (v), veh/ł	h			78	1339	) 134	54	92	8 139	5	926	146	76	685	51
					1					- 111:	-1	1	-		
Signal Informatio	and a later to the second second				~ v			<u> </u>	6 246	, etis			~	5	
CALIFORNIA CONTRACTOR CONTRACTOR CONTRACTOR	00.0	Reference Phase	2		L K	R	∃≓∎"	, «	ì	<b>6</b>	17 T		$\mathbf{a}$	] [	
Offset, s	0	Reference Point	End	Green		0.5	48.0	0.7		26.7			A		
Concession of the second se	No	Simult. Gap E/W	On	Yellow	Concernation and the second second	0.0	3.0	3.0	Concerned and the second s	3.0	_		<b>X</b> ]		Ý
Force Mode F	ixed	Simult. Gap N/S	On	Red	1.0	0.0	11.0	1.0	10.0	11.0					
Timer Results				EBL	- 1	EBT	WB	, T	WBT	NBI	- 1	NBT	SBI	1	SBT
Assigned Phase				5		2	1		6	3	-	8	7		4
Case Number				1.1		3.0	1.1	en an	4.0	1.1		4.0	1.1		4.0
	e Duration, s			8.5		52.6	8.0		52.0	4.7		30.7	8.7		34.7
CONTRACTOR PORTAGE AND ADDRESS OF ADDRESS OF ADDRESS AD	gan in a subscription and a subscription of the					4.0	4.0	no second second	4.0	4.0		4.0	4.0		4.0
Promotive and the second se	ge Period, (Y+ <i>Rc</i> ), s Now Headway <i>(MAH)</i> , s					0.0	3.1		0.0	3.1		3.1	3.1		3.1
Queue Clearance		TANK TO A REPORT OF A DESCRIPTION OF A D		3.1 4.4		0.0	3.7	CONCERNMENT OF ALL	0.0	2.2		22.1	5.2		19.2
Green Extension				0.1		0.0	0.1		0.0	0.0		4.6	0.1		4.7
Phase Call Proba		(ge), s		0.91		0.0	0.80		0.0	0.14	nanewine contractor	1.00	0.90	1	1.00
Max Out Probabili				0.00			0.00			0.00		0.03	0.00		0.01
Max Out i Tobabili	".y		<b>ا</b> د دروی د	0.00				· I		H 0.00	· I	0.00	II	· I	
Movement Group	p Res	ults			EB		1 · · · · · ·	WB			NB			SB	
Approach Movem	ent			L	Т	R	L	Т	R	L	T	R	L	Т	R
Assigned Moveme	ent			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow Ra	ite (v),	veh/h		85	1455	146	59	756	360	5	795	370	83	379	377
Adjusted Saturation	on Flo	w Rate <i>(s)</i> , veh/h/ln		1723	1723	1610	1723	1810	) 1717	1723	1810	1680	1723	1810	1799
Queue Service Ti	me (g	s), S		2.4	34.1	3.6	1.7	10.4	10.5	0.2	20.0	20.1	3.2	17.2	17.2
Cycle Queue Clea	arance	e Time <i>(g₀</i> ), s	]	2.4	34.1	3.6	1.7	10.4	10.5	0.2	20.0	20.1	3.2	17.2	17.2
Capacity (c), veh/	'n			333	1673	782	186	1739	825	177	967	449	184	556	553
Volume-to-Capac	ity Ra	tio (X)		0.254	0.870	0.186	0.316	0.43	5 0.436	0.031	0.822	0.824	0.449	0,682	0.682
Available Capacit				886	1673	782	747	1739		440	1712	795	379	928	923
		n/In (95th percentile)		1.6	16.3	2.3	1.1	6.6	6.6	0.2	12.4	11.8	2.2	10.7	10.7
Overflow Queue (				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
and the second		RQ) (95th percentile	)	0.21	0.00	0.00	0.15	0.00	and a subscription of the	0.02	0.00	0.00	0.29	0.00	0.00
Uniform Delay (d1	waraan an waaroo karda			12.1	15.1	9.7	18.6	11.2		27.2	30.0	30.0	24.3	25.5	25.5
Incremental Delay	Transformenting (	Contraction of the second s		0.1	6.5	0.5	0.4	0.8	1.7	0.0	0.7	1.5	0.6	0.6	0.6
A DECK DE LA	al Queue Delay (d3), s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMPANY AND A DESCRIPTION OF A DESCRIPTI	trol Delay (d), s/veh			12.3	21.6	10.2	19.0	12.0		27.3	30.7	31.5	24.9	26.1	26.1
entry of the same second se	el of Service (LOS)			В	<u> </u>	В	В	B	В	<u> </u>	C	C	C	C	C
competences and a second s	proach Delay, s/veh / LOS			20.1	·	С	12.6	3	8	30.9		С	26.0	)	С
Intersection Delay	tersection Delay, s/veh / LOS			L		21	1.9		AND SECTION				<u>c</u>		
				1 - 10 - 10 - 10 1									N		
A REAL PROPERTY AND A REAL	Itimodal Results				EB			WB			NB	~		SB	~
Pedestrian LOS S	No. Contraction Contra			2.9		C	3.2	simment strepstation	C	3.0		<u>C</u>	3.3		C ^
Bicycle LOS Scor	e/LC	15		1.9		A	1.1		A	1.1	I	A	1.2		Α

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		HCS 2	010 S	ignali	zed	Inters	ectior	n Re	sults	s Si	umm	ary				
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General Inforn	nation			le d					Inters	sect	ion Inf	ormatio	on	1 3	(a) 22 24 30	<u>sv</u>
Agency		TASK Engineering							Durati	ion,	h	0.25				
Analyst		Ken Howell		Analys	sis Da	te Dec 3	30, 2012		Area	Тур	9	Othe	-			
Jurisdiction		City of Phoenix		Time					PHF			0.92		23 25	и к÷Е	2. SP
Intersection		Van Buren St/51st	Avenue			MANNER INTERNET		1.62- <del>238</del> 2.517-265 1	Analy	sis f	Period	1> 7:	00			1
File Name		VB51 PM .xus		1		L			<u> </u>			2				
Project Descrip	tion	2030 No Build	ann an tha Phar a th' Pharman (NA)	99 14 00 1 may 31 ( ) man and ( ) a.w	10 198 - ANN 177 - ANN 177 -							//////////////////////////////////////	alan taki tana ili semini karpa	- B	er er er er	92 T.
L Ó										ж.						
Demand Inform	nation	te tenggi one ender of ender ten	nere jere v	a na la sa	EE	3 ^{- 11} 24 - 11 - 14 - 14		Ň	√B			NB			SB	
Approach Move	ement	an a		L	Т	R	L	-	r 🛛	R	L	T	R	L	T	R
Demand (v), ve	h/h			49	99(	3 67	70	15	555 1	84	33	637	111	107	1071	134
				1 1	- I	- 1 · · ·			-T		1.02			1		
Signal Informa	Contraction of Contra				2				5 6	ΠĈ	213	າ 📔		-	ĸ	人
Cycle, s	100.0	Reference Phase	2			e i	ΈĽ		5		5	17		€	<u></u>	•••
Offset, s	0	Reference Point	End	Green	3.9	0.5	37.1	3.	2 2	.7	36.7			<b>N</b>	1	
Uncoordinated	No	Simult. Gap E/W	On	Yellow	Contraction of the local data	0.0	3.0	3.		0.0	3.0		~			*
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.	<u>0  0</u>	0.0	1.0					
				u			· · · · · · · · · · · · · · · · · · ·	<u> </u>		. н				и		
Timer Results		นสมรรมสรรมและสายของสรรมและสายและสายสรรสรรมสรรม	annan an a	EBI	-	EBT	WB	L	WBT		NBI		NBT	SB		SBT
Assigned Phase	e	nis maan ka maa ka m		5		2	1		6		3		8	7		4
Case Number	e Number se Duration, s			1.1		3.0	1.1	*****	4.0		1.1		4.0	1.1		4.0
				7.9	ana	41.1	8.4		41.7		7.2		40.7	9.8		43.3
	nge Period, (Y+R₀), s			4.0		4.0	4.0	ter tradiction and the second	4.0		4.0		4.0	4.0		4.0
Max Allow Hea	and the second	iya na yang dan yang yang mang kang mang na yang na yang na yang na sa kang na yang na yang na yang na yang na	يشب ورثقيته المشيعة تسرعت ستبح	3.1	and and show the state	0.0	3.1		0.0		3.1		3.1	3.1		3.1
Queue Clearan	100 TO			3.9		and and a supervision of the	4.7	an a			3.3	someron of an annual	12.0	5.9		34.8
Green Extensio		(ge), s		0.1		0.0	0.1		0.0	ļ	0.0		5.3	0.1		4.6
Phase Call Pro			1079010 200 TAXA DO HILDOO	0.77	unerstand states		0.88		eraning on a security of		0.63	ntanianan ana ana ana ana ana ana ana ana	1.00	0.96		1.00
Max Out Proba	bility			0.00	)		0.00	)			0.00	)	0.01	0.00		0.22
Movement Cre	un Baa	ulta			EB		1	10/1				ND		l	00	
Movement Gro		uns			r			WE T	S R		1	NB			SB T	
Approach Move Assigned Move				L 5	T 2	R 12		T 6	16		L 3	Т 8	R 18	L 7	Т 4	R 14
Adjusted Flow f		vohľb		53	2 1083		76	124			36 36	o 554	259	116	4 648	629
		, ven/n w Rate <i>(s)</i> , veh/h/ln		1723	1723		1723	124			30 1723	1810	1670	1723	1810	1753
Queue Service		nanisia manakara na kata manakara na taka na matakara na kata n	i milandari katika malandari	1.9	27.3		2.7	31.	Concession and Concession of C		1.3	9.8	10.0	3.9	32.6	32.8
Cycle Queue C				1.9	27.3	AND A CONSTRUCTION OF A CONSTR	2.7	31.			1.3	9.8	10.0	3.9	32.6	32.8
Capacity (c), ve		e mine (gc), s		1.9	1279		194	136	and the second	ana	1.5	9.0 1327	612	345	712	689
Volume-to-Cap	Internet in the second of the second second	itio /VI		0.350	0.84		0.393	0.91			0.233	0.417	0.424	0.337	0.910	0.913
Available Capa			neolecomo no reconstruction de la companya de la co	525	1279		558	136	and the second	umumu 🖉 -	375	1671	771	521	884	856
		ven/n		1.3	15.8		1.9	19.			0.9	6.7	6.3	2.7	19.3	19.0
Overflow Queue				0.0	0.0	0.0	0.0	0.0			0.9	0.0	0.0	0.0	0.0	0.0
00000000000000000000000000000000000000		RQ) (95th percentile	<b>\</b>	0.0	0.00		0.0	0.0			0.0	0.00	0.00	0.0	0.00	0.00
Uniform Delay			/	23.8	22.8		21.8	23.4			23.2	18.7	18.7	16.5	22.2	22.2
Incremental De	And a second	Anna an anna an anna anna anna anna ann		0.5	7.0	0.4	0.5	11.	a second de la companya de la compa	and the second	0.3	0.1	0.2	0.2	10.4	11.0
CONTRACTOR AND A CONTRACTOR AND	And a state of the second second second			0.0	0.0	0.0	0.0	0.0		ana amin'ny Estat	0.0	0.0	0.0	0.0	0.0	0.0
and the second	al Queue Delay <i>(d₃</i> ), s/veh trol Delay <i>(d</i> ), s/veh			24.3	29.8		22.3	34.6		200720.00	23.5	18.8	0.0 18.9	16.7	32.6	33.2
and an	el of Service (LOS)			24.3 C	29.0 C	B	C	54.0 C	0 43. D		23.5 C	B	10.9 B	B	32.0 C	00.2 C
	proach Delay, s/veh / LOS			28.8	COMPACT STREET, STORE	C C	36.9				19.0		B	31.5		C C
and the second sec	ersection Delay, s/veh / LOS			<u>د</u> ں.د ا			).9				ı ۳,0	<u> </u>		C 31.0	<u>'  </u>	<u> </u>
Intersection De	rsection belay, swent LOS			I		3								<u> </u>		
Multimodal Re	sults			1	EB			WE	3			NB		I	SB	
Pedestrian LOS		/105		2.9		С	3.2		, С		3.0		С	3.3		с
Bicycle LOS Sc				1.5		A	1.5		A		1.0		A	1.6	nishihimme (secondaria	Ā
100000	5107 60	~		1.0			<u>n 1.0</u>				1.0	I	<u></u>	1.0		

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General Inform	ation	y mia mining takan kana kana kana kana kana kana kan			teallinghed (Martinia Martin				Intersed		unido glimpolanda nondelpo	on	- Î	1 A 2 & A	A N
Agency		TASK Engineering	and the second		and the second secon				Duratior	ո, h	0.25				<u>v</u>
Analyst		Ken Howell		Analys	sis Da	te Dec 3	and contract and contract the		Area Ty	pe	Othe	ſ		N	
Jurisdiction		City of Phoenix		Time I	Period	I AM P	k Hr		PHF	in a substant of the substantian	0.92			ki ÷ Σ S	at its
Intersection		Van Buren St/67th	Avenue	Analys	sis Ye	ar 2030			Analysis	Period	1> 7:	00			N.M.
File Name		VB67 AM .xus	and the state of the			No. 1. 17 10 10 11 11 10 11 11 11 11 11 11 11 11					11	//			
Project Descript	lion	2030 No Build											ត	8482	<u> </u>
							<u> </u>		_						
Demand Inform					EE			W			NB			SB	
Approach Move				L	T	R		T			T	R	L	T	R
Demand (v), ve	h/h			73	92	9   15	11	70	7 179	5	891	146	130	659	8
Signal Informa	tion			1	1			- 1	1 111	1 11:	- 1		<u> </u>		
Cycle, s	100.0	Reference Phase	2	,	_2	~		H	6 510					5	ふ
Offset, s	0	Reference Point	∠ End	2		Ń	F'		Ì				$\mathbf{A}$		· ,
Uncoordinated	No	Simult. Gap E/W	On	Green		0.5	36.4	0.7		35.2	2	_	<u>a</u>	l	
Force Mode	Fixed	Simult. Gap N/S	On	Yellow Red	13.0	3.0	3.0	3.0		3.0			2	<b>N</b>	<b>V</b>
Force Mode	LIXEO	Simult. Gap 19/5		Ined	11.0	11.0	11.0	11.0	<u>, 11.0</u>	[1.0					
Timer Results				EBI		EBT	WB	, 1	WBT	NB		NBT	SB	1	SBT
Assigned Phase				5	-	2	1		6	3		8	7		4
Case Number	Number				-	4.0	1.1		4.0	1.1		4.0	1.1		4.0
	e Duration, s					44.8	5.4		40.4	4.7		39.2	10.	****	45.0
The second s	e Duration, s ge Period, (Y+ <i>R</i> ₀), s					4.0	4.0	emmerenne ann	4.0	4.0		4.0	4.0		4.0
Max Allow Head				4.0 3.1	<u> </u>	0.0	3.1		0.0	3.1		3.1	3.1		4.0 3.1
Queue Clearan	Water Manual Contraction of the	WINNESS (WARNESS OF A CONTRACT OF		6.5		0.0	2.4		0.0	2.2	an a	31.5	6.5		3.1 14.4
Green Extensio				0.5		0.0	0.0		0.0	0.0		3.7	0.5		4.1
Phase Call Prot		( <i>Ye)</i> , S		0.1		0.0	0.28		0.0	0.14		1.00	0.2		1.00
Max Out Probat				0.00			0.20			0.0		0.17	0.00		0.00
	ліку			0.00	, I		0.00	·		1 0.00	<u>'  </u>	0.17	0.00	/	0.00
Movement Gro	up Res	ults			EB	** • • • • • • • • •		WB	}	1	NB		l	SB	
Approach Move	and a state of the			L	Т	R	L	T	R	L	Т	R	L	Т	R
Assigned Move	ANN THE REAL PROPERTY OF THE P		on oo saa ahaa ahaa ahaa ahaa ahaa ahaa ah	5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F		, veh/h		79	515		12	663		5	578	550	141	363	362
VALUE AND ADDRESS OF A DESCRIPTION OF A	meranium anteine (142) milajaini (144)	w Rate (s), veh/h/ln		1723	1810	) 1799	1723	1810	) 1621	1723	1810	1720	1723	1810	1802
Queue Service		NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.		4.5	20.9		0.4	12.5		0.2	29.5	29.5	4.5	12.4	12.4
Cycle Queue Cl	ACCOUNTS OF A DESCRIPTION OF A DESCRIPTI	andre koljenska praktika je provinska stala kale postala postala se kale postala se		4.5	20.9		0.4	12.5	and the second second second	0.2	29.5	29.5	4.5	12.4	12.4
Capacity (c), ve	a la construcción de la construcción			102	739	735	202	1316	3 589	286	637	606	212	743	740
Volume-to-Capa	Colored Contraction of Street Street	tio (X)		0.781	0.69	6 0.696	STREET, STREET	0.50		0.019	0.907	0.908	0.666	0.489	0.489
Available Capad				452	739		630	1316		550	822	782	375	928	924
		v/In (95th percentile)	annen mun anne anne daoraich	3.6	12.8	12.8	0.3	8.5	8.2	0.1	18.2	17.6	3.1	7.9	7.8
Overflow Queue	and the second	NEW YORK CONTRACTOR OF CONT	and and a second se	0.0	0.0	new second contraction of the second contrac	0.0	0.0	24,500 <u>- 1000 - 1000 - 1000 - 1000 - 1000</u>	0.0	0.0	0.0	0.0	0.0	0.0
21		RQ) (95th percentile	)	0.47	0.00	tana ang ang ang ang ang ang ang ang ang	0.04	0.00	ing a large de la	0.02	0.00	0.00	0.40	0.00	0.00
Uniform Delay (	moor second second	hipe is made a set in a minimum of the initial state of the initial set of the set of the set of the set of the	, 	45.4	18.2	en stand bannesser	20.8	19.6	COMPANY AND THE PARTY OF	20.8	25.0	25.0	22.0	16.2	16.2
Incremental Del				4.8	5.4		0.0	1.4		0.0	10.0	10.6	1.3	0.2	0.2
Without the second s	al Queue Delay (d3), s/ven				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	trol Delay (d), s/veh				23.6		20.8	21.0		20.8	35.0	35.6	23.4	16.3	16.3
CHANNEL CONTRACTOR OF THE OWNER CONTRACTOR OF THE	el of Service (LOS)				С	С	С	С	С	С	D	D	С	В	В
and the second se	proach Delay, s/veh / LOS					C	21.5		C	35.2	2	D	17.5		В
THE REPORT OF A DESCRIPTION OF A DESCRIP	ersection Delay, s/veh / LOS				<u> </u>		5.6					000000000000000000000000000000000000000	C		
								an a		n	2				
Multimodal Res	ultimodal Results				EB			WB			NB		1	SB	Canada da C
Pedestrian LOS	Score .	/LOS		2.8		С	2.8		С	2.9		С	3.2		С
Bicycle LOS Sc	ore / LC	)S		1.4	2012/07/10 (2010)	A	1.0		Α	1.4		A	1.2		A

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		HCS 2	010 S	ignal	ized	Inter	sectio	n Re	sults	Sum	mary	,				
General Inform	nation								Inters	ection	nform	atio	n		<u>.</u> a <u>a</u> a i	N W
Agency		TASK Engineering	A. 1. 2011 Website of A. 1. Sound of A. 1. A.			1999-1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1	an a		Durati	on, h	0.	25				
Analyst		Ken Howell		Analy	sis Da	ate Dec	30, 201	2	Area T	and the second		ther				
Jurisdiction		City of Phoenix		Time	Perio	d PM	Pk Hr		PHF			92	and a state of the	1935	N N S	10 A
Intersection		Van Buren St/67th	Avenue	Analy	sis Ye	ar 203	)		Analys	is Perio		> 7:0	0			E C
File Name		VB67 PM .xus		in the second	17. 01. 01. 04. 1997 - 4. 1997 - 4. 1997 - 4. 1997 - 4. 1997 - 4. 1997 - 4. 1997 - 4. 1997 - 4. 1997 - 4. 1997							and a state of the				
Project Descrip	tion	2030 No Build	Kinin di Angang Marang Karang Kara			and the second secon					TTERNIE AND				<b>4 8 11 18 5</b>	
				an su su				- <i>i</i>						. <b>Г</b>	ie is he	
Demand Inforr	nation				EI	3		V	/B			NB			SB	
Approach Move	ement		Construction Construction	L	Т	R	L	-	Г 🛛 F	2	-	Т	R	L	T	R
Demand (v), ve	h/h			10	67	0 7	6	10	39 17	'1	5 8	306	127	186	845	181
Signal Informa			20000000000000000000000000000000000000		2			₩.	5 2	15 2	15				ĸ	
Cycle, s	100.0	Reference Phase	2			٣Ŕ	₹	<b>K</b>	5		517	×		4	<u></u>	<b>×</b> ↓3
Offset, s	0	Reference Point	End	Greer	1 0.8	0.5	41.	2 0.	7 4.	0 3	2.7			5		
Uncoordinated	No	Simult. Gap E/W	On	Yellov	2020 March 100 march	0.0	3.0	3.0					<b>N</b>		5	<b>N</b>
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.(	) [1.	0 1	0					
Times Dr. W					<u> </u>			<u>_, r</u>		- 11		-1¢				
Timer Results	A30-2004			EB		EBT	W	China and a second second second second	WBT		BL		<b>I</b> BT	SB	L	SBT
Assigned Phase	e	an a		5		2	1		6		3		8	7		4
Case Number	e Number se Duration, s			2.0	antheorem and the state	4.0	1.		4.0		.1		4.0	1.1		4.0
The second s				5.3		45.7	4.		45.2		.7		6.7	12.		44.8
And the second se	ge Period, (Y+R _c ), s Allow Headway <i>(MAH)</i> , s			4.0		4.0	4.	TAIL PARAMETERS OF A DESCRIPTION OF A DESCR	4.0		.0		4.0	4.0		4.0
	torn one of the second s			3.1	and a second	0.0	3.	Contraction of the local division of the loc	0.0	Contraction of the local division of the loc	.1		3.1	3.1		3.1
Queue Clearan		Construction of the second		2.6			2.		1) Contemporary and the second se		.2		8.2	8.5	ilostamananan provinsi	27.2
Green Extensio	the second s	(g₀), s	*****	0.0	and the second sec	0.0	0.		0.0		.0		4.5	0.2		5.0
Phase Call Prol	CONTRACTOR OF THE OWNER			0.26		Mineration of the second s	0.1	and the second second			14		.00	1.0		1.00
Max Out Probal	ollity		<u>-</u>	0.00	ן נ		0.0	0		0	00	0	.22	0.0	1	0.07
Movement Gro	un Ree	ulte	·····)	<u> </u>	EB		1	WE	,	1	N	Þ		1	00	
Approach Move		uito				R	L	T T	R		ri T		R		SB F	
Assigned Move				5	2	12		6	16		8		18	L 7		R 14
Adjusted Flow F		veh/h		11	369		7	899		TAL OF THE OWNER OF THE OWNER	51		495	202	4 575	540
THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE		w Rate (s), veh/h/ln		1723	1810		1723	181					1723	1723	1810	1698
Queue Service				0.6	12.4		0.2	16.7			tinits consumers		26.2	6.5	25.2	25.2
Cycle Queue Cl				0.6	12.4		0.2	16.7	energy of the second second second	and generative real			26.2	6.5	25.2	25.2
Capacity (c), ve	10.000	· · · · · · · · · · · · · · · · · · ·		22	755		291	149		160	NOTES TO A DESCRIPTION		564	257	738	692
Volume-to-Capa		tio (X)		0.484	0.48		and the second			and the second	ana		0.877	0.786	0.780	0.781
Available Capac	Concernant Conference on the second second			457	755		734	1492		424			746	383	928	871
Contraction of the second seco		/In (95th percentile)		0.5	8.4	8.4	0.2	10.0	anna an	0.2	16		15.7	4.5	14.0	13.3
Overflow Queue		and the second		0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0		0.0	0.0	0.0	0.0
The second s		RQ) (95th percentile)		0.07	0.00	TITLE CONTRACTOR CONTRACTOR	0.02	0.00				and the second	0.00	0.59	0.0	0.00
Uniform Delay (		And a second		48.8	15.7	THE OWNER AND A DESCRIPTION OF A DESCRIP	17.5	17.0					26.3	21.2	19.3	19.3
Incremental Del	and the second second second			5.9	2.3	2.3	0.0	1.8	3.9	0.0	7.3		20.3 7.6	3.3	2.5	2.7
	Comparison of the second s			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
	al Queue Delay (dȝ), s/veh htrol Delay (d), s/veh			54.7	17.9	landiko annaka marana wa wa	17.5	18.8	tata di anno antone antone antone		NGS of Contamentations		33.9	24.5	21.8	22.0
	rel of Service (LOS)			D	B	B	B	B	C	23.1 C			55.9 C	24.5 C	21.0 C	22.0 C
	proach Delay, s/veh / LOS		1	18.5	house and the same	8	19.	AND DESCRIPTION OF THE OWNER OWNER	B	33			C	22.3		C C
Intersection Del				.0.0	<u></u>		3.4	<u>·</u>						C 22.3	<u>'  </u>	<u> </u>
				1. 100. AU		4	U.17			, M	4 A. A.			0	ne karalar	
Multimodal Res	ultimodal Results			EB		1	WB		1	N	<u>ר</u> א	1		SB		
	destrian LOS Score / LOS		2.8	Ī	С	2.8	allowneeprocess	С	2			С	3.2		C	
Bicycle LOS Sco				1.1		A	1.2	*****	Ā		3		A	1.6		A
							<u>NN_</u>				<u> </u>		·l	L	L	<u> </u>

	TW	O-WAY STOP	CONTRO	DL SUN	MARY								
General Information	1		Site Ir	format	ion								
Analyst	kmh		Interse	ction			ue/Fillmore	e Street					
Agency/Co.	TASK		Jurisdie			City of Ph	oenix						
Date Performed	1/28/2013		Analys	is Year		2030							
Analysis Time Period			[										
	30 No Build												
East/West Street: Fillmo					et: 59th A	venue							
ntersection Orientation:			Study P	erioa (nr	s): 0.25								
Vehicle Volumes an	<u>id Adjustme</u>												
Major Street		Northbound				Southbou	nd						
Movement	1	2	3		4	5 T		6 R					
I-huma (uch th)		Т	R		L	1004		13					
Volume (veh/h) Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92					
Hourly Flow Rate, HFR							`						
veh/h)	0	0	0		0	1091		14					
Percent Heavy Vehicles	5				0								
Median Type			Two V	/ay Left T	Furn Lane	·							
RT Channelized			0				0						
anes	0	0	0		0	2	L LINE REAL PROPERTY AND A REA						
Configuration						Т	R						
Jpstream Signal		0				0	0						
Minor Street		Eastbound				Westbou	nd						
Movement	7	8	9		10	11		12					
	L	Т	R		L	<u>т</u>		R					
Volume (veh/h)	0		25										
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00					
Hourly Flow Rate, HFR (veh/h)	0	0	27		0	0		0					
Percent Heavy Vehicles	5	0	5		0	0		0					
Percent Grade (%)		0				0							
Flared Approach		N				N							
Storage		0				0							
RT Channelized			0					0					
Lanes	0	0	0	·	0	0		0					
Configuration		LR											
Delay, Queue Length, a	nd Level of Se	rvice					15.00						
Approach	Northbound	Southbound	۱	Nestbour	nd	E	Eastbound						
Movement	1	4	7	8	9	10	11	12					
Lane Configuration							LR						
v (veh/h)							27						
C (m) (veh/h)							532	i – – –					
							0.05						
95% queue length							0.16						
							12.1	<u> </u>					
Control Delay (s/veh)				·	_		12.1 B						
LOS													
Approach Delay (s/veh)							12.1						
Approach LOS							В						

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	TW	O-WAY STOP	CONTRO	DL SI	JWN	IARY				
General Information	1		Site Ir	nform	atic	on –				
Analyst	kmh		Interse	ction			59th Aven	ue/Fillmo	re Street	
Agency/Co.	TASK		Jurisdi	ction			City of Ph	oenix		
Date Performed	1/28/2013		Analys	is Yea	r		2030			
Analysis Time Period	PM Pk Hr	•								
Project Description 20	30 No Build								- 000	
East/West Street: Fillmo						t: 59th Ave	enue			
Intersection Orientation:	North-South		Study F	Period	(hrs)	: 0.25				
Vehicle Volumes ar	id Adjustme									
Major Street		Northbound					Southbou	nd	-	
Movement	1	2	3			4	5		6	
	L	<u> </u>	R			<u> </u>	<u>Т</u> 1678		R 50	
Volume (veh/h)	0.92	0.92	1.00			1.00	0.92		0.92	
Peak-Hour Factor, PHF Hourly Flow Rate, HFR										
(veh/h)	0	0	0			0	1823		54	
Percent Heavy Vehicles	5					0				
Median Type		-		Vay Le	ft Tu	m Lane				
RT Channelized			0						0	
Lanes	0	0	0			0	2 <u>1</u>			
Configuration							<u> </u>		R	
Upstream Signal		0					0			
Minor Street		Eastbound					Westbour	nd		
Movement	7	8	9			10	11		12	
	LL	Т	R			L	Т		R	
Volume (veh/h)	0		22			4.00	4.00		4.00	
Peak-Hour Factor, PHF	0.92	1.00	0.92			1.00	1.00		1.00	
Hourly Flow Rate, HFR (veh/h)	0	0	23			0	0		0	
Percent Heavy Vehicles	5	0	5			0	0		0	
Percent Grade (%)		0					0			
Flared Approach		N					N			
Storage		0					0			
RT Channelized			0						0	
Lanes	0	0	0			0	0		0	
Configuration		LR								
Delay, Queue Length, a	nd Level of Se	rvice								
Approach	Northbound	Southbound	1	Westbo	ound		E . E	Eastbound	1	
Movement	1	4	7	8		9	10	11	12	
Lane Configuration								LR		
v (veh/h)								23		
C (m) (veh/h)								328		
v/c								0.07		
95% queue length								0.22	1	
Control Delay (s/veh)								16.8		
LOS								C	1	
Approach Delay (s/veh)				I				16.8	<u>í</u>	
Approach LOS								<u>C</u>		
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	-	wo	-WAY STOP	CONTR	OL S	UMI	MARY				
General Information	n			Site I	nforn	natio	on				
Analyst	kmh			Interse	ection			Van Bure	en Sti	reet/63	Brd
Agency/Co.	TASK							Avenue		<i>t</i>	
Date Performed	12/30	2012		Jurisd				City of Pl	noen	IX	
Analysis Time Period	AM P		· · · · · · · · · · · · · · · · · · ·	Analys	sis yea	Ir		2030			
Project Description 20	30 No Build										
East/West Street: Van I				North/S	South S	Stree	et: 63rd Av	่งกมอ			
Intersection Orientation:							): 0.25				
Vehicle Volumes ar	nd Adjusti	nent	ts							<u> </u>	
Major Street			Eastbound					Westbou	Ind		
Movement	1		2	3			4	5			6
	L		Т	R			L	Т			R
Volume (veh/h)			1161	68			4	780			
Peak-Hour Factor, PHF	0.92		0.92	0.92			0.92	0.92			1.00
Hourly Flow Rate, HFR (veh/h)	0		1261	73			4	847			0
Percent Heavy Vehicles	5						5				
Median Type				Two V	Vay Le	eft Tu	ırn Lane				
RT Channelized				0							0
Lanes	0		2	0			1	2			0
Configuration	:		Т	TR			L	T			
Upstream Signal		• •	0					0	·		
Minor Street			Northbound	•				Southbou	und		
Movement	7		8	9			10	11		[	12
	L		T	R			L	Т	• • •	1	R
Volume (veh/h)	12			13							
Peak-Hour Factor, PHF	0.92		0.92	0.92	· · · ·		1.00	0.92		(	0.92
Hourly Flow Rate, HFR (veh/h)	13		0	14			0	0			0
Percent Heavy Vehicles	5		5	5			0	5			5
Percent Grade (%)			0					0			
Flared Approach			N					N			
Storage			0					0			
RT Channelized				0							0
anes	1		0	1			0	0			0
Configuration	L			R							
Delay, Queue Length, a								1			
Approach	Eastbound		Westbound		Vorthb		7 **	<u>}</u>	-	bound	1
Vovement	1		4	7	8		9	10		11	12
ane Configuration			L	L.			R				
/ (veh/h)			4	13			14				
C (m) (veh/h)			497	169			449				
//c			0.01	0.08			0.03				
95% queue length			0.02	0.25			0.10				
Control Delay (s/veh)			12.3	28.1			13.3				
LOS			В	D			В		1		
Approach Delay (s/veh)					20.4	4	<b>.</b>				
Approach LOS					С						
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	NT	O-WAY STOP	CONTR	OL SI	JMN	MARY				
General Information	า		Site I	nform	atio	on				
Analyst	kmh		Inters	ection			Van Bure	n Str	eet/63	Ird
Agency/Co.	TASK	······	(				Avenue			
Date Performed	12/30/20	12	Jurisd	iction sis Yeai	*		City of Pl 2030	ioenii	x	
Analysis Time Period	PM Peal	(Hour		sis rea			2030			
Project Description 20	30 No Build				· · · · · · · · · · · · · · · · · · ·				0.000	
East/West Street: Van I			North/	South S	Stree	t: 63rd Av	enue			
ntersection Orientation:	East-West		Study	Period	(hrs)	: 0.25				·····
/ehicle Volumes ar	nd Adjustme	ents			******	a a a shift ta animin ta antinin tita a a da il da 100 a ta an				
Viajor Street		Eastbound					Westbou	ind		
Movement	1	2	3			4	5			6
	L	Т	R			L	T			R
/olume (veh/h)		874	63			7	1285			
Peak-Hour Factor, PHF	0.92	0.92	0.92	?		0.92	0.92			1.00
Hourly Flow Rate, HFR veh/h)	0	949	68			7	1396			0
Percent Heavy Vehicles	5					5				
Viedian Type			Two	Nay Lei	ft Tu	rn Lane				
RT Channelized		ſ	0			• •				0
anes	0	2	0			1	2			0
Configuration		Т	TR			L	Т			
Jpstream Signal		0					0			
Minor Street		Northbound					Southbou	Ind		
Movement	7	8	9			10	11			12
	L	Т	R	Ì		L	Т			R
/olume (veh/h)	16		16							
Peak-Hour Factor, PHF	0.92	0.92	0.92	2		1.00	0.92		(	0.92
Hourly Flow Rate, HFR	17	0	17			0	0			0
Percent Heavy Vehicles	5	5	5			0	5			5
Percent Grade (%)		0					0			- -
lared Approach		N					N			
Storage		0					0			
RT Channelized			0							0
anes	1	0	1			0	0			0
Configuration	L		R							
Delay, Queue Length, a	nd Level of Se	ervice								~
Approach	Eastbound	Westbound		Northbo	bund		S	Southb	bound	
Novement	1	4	7	8		9	10	1	1	12
ane Configuration		L	L			R				
/ (veh/h)		7	17			17				
C (m) (veh/h)		660	202			554				
//c		0.01	0.08			0.03				
95% queue length		0.03	0.27			0.09		1		
Control Delay (s/veh)		10.5	24.5			11.7				
.OS		В	C			B				
Approach Delay (s/veh)				18.1	 1			L		I
Approach LOS				, o. , C						
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	TV	VO-WAY STO	P CONTI	ROL SU	IMMARY			
General Informatio	n		Site	Inform	ation			
Analyst	kmh		Inter	section			ren Street	/61st
Agency/Co.	TASK					Avenue		
Date Performed	12/30/20	012		diction		City of F	Phoenix	
Analysis Time Period	PM Pea		Analy	/sis Year		2030		·
Project Description 2	030 No Build							
ast/West Street: Van		·····	North	South St	reet: 61st A	Vonuo		
ntersection Orientation:					nrs): 0.25	venue		
/ehicle Volumes a	nd Adjustm	ents						
lajor Street		Eastbound				Westbo	und	
Novement	1	2	3		4	5	Τ	6
	L	Т	٦ ٦	2	L	Т		R
/olume (veh/h)		726	60		10	1124	!	
eak-Hour Factor, PHF	0.92	0.92	0.9	2	0.92	0.92		1.00
lourly Flow Rate, HFR /eh/h)	0	789	65	;	10	1221		0
Percent Heavy Vehicles	5				5			
ledian Type			Two	Way Left	Turn Lane			
RT Channelized			0					0
anes	0	2	0		1	2		0
Configuration		Т	TR	2	L	T		
lpstream Signal		0				0		
linor Street		Northbound				Southbo	und	
lovement	7	8	9		10	11		12
	L	Т	R		L	Т		R
olume (veh/h)	16		16					
eak-Hour Factor, PHF	0.92	0.92	0.92	2	1.00	0.92		0.92
ourly Flow Rate, HFR /eh/h)	17	0	17		0	0		0
ercent Heavy Vehicles	5	5	5		0	5		5
ercent Grade (%)		0				0		
lared Approach		N				N		·····
Storage		0				0		
T Channelized			0			-		0
anes	1	0	1		0	0		0
onfiguration	L		R					
elay, Queue Length, a		rvice						
pproach	Eastbound	Westbound		Northbou	nd	5	outhboun	d
ovement	1	4	7	8	9	10	11	12
ane Configuration		L	L		R			
(veh/h)		10	17		17			1
(m) (veh/h)		762	247		617			1
c		0.01	0.07		0.03			
% queue length		0.04	0.22		0.08		L	
ontrol Delay (s/veh)		9.8	20.6		11.0			
DS		А	С		В			
proach Delay (s/veh)			·····	15.8		·		<u> </u>

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	T۷	O-WAY STOP	ONTR		IMARY				
General Information	n		Site I	nformat	ion				
Analyst	kmh		Interse	ection		Van Bure Avenue	en Stree	ot/61s	t
Agency/Co.	TASK		Jurisd	intion		City of Pl	hooniy		
Date Performed	12/30/20	12		sis Year		2030	noenix		
Analysis Time Period	AM Peak	Hour		sis i edi		2030			
Project Description 20									
East/West Street: Van I			North/S	South Stre	et: 61st Av	/enue			
Intersection Orientation:	East-West		Study I	Period (hr	s): 0.25				
Vehicle Volumes ar	nd Adjustme								
Major Street		Eastbound				Westbou	Ind		
Movement	1	2	3		4	5			6
	L	Т	R		L	T			R
Volume (veh/h)		948	60		10	1124			
Peak-Hour Factor, PHF	0.92	0.92	0.92	<u> </u>	0.92	0.92		1.	00
Hourly Flow Rate, HFR (veh/h)	0	1030	65		10	1221			0
Percent Heavy Vehicles	5				5				
Median Type			Two V	Vay Left T	urn Lane				
RT Channelized			0						0
Lanes	0	2	0		1	2			0
Configuration		Т	TR		L	T			
Upstream Signal		0				0			
Minor Street		Northbound				Southbou	und	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Movement	7	8	9		10	11			12
	L	Т	R		L	Т			R
Volume (veh/h)	12		13						
Peak-Hour Factor, PHF	0.92	0.92	0.92	<u>}</u>	1.00	0.92		0.	92
Hourly Flow Rate, HFR (veh/h)	13	0	14		0	0			0
Percent Heavy Vehicles	5	5	5		0	5			5
Percent Grade (%)		0				0			
Flared Approach		N				N	T		
Storage	-	0				0			
RT Channelized			0						0
Lanes	1	0	1		0	0			0
Configuration	L		R						
Delay, Queue Length, a	ind Level of Se								
Approach	Eastbound	Westbound		Northboun		_	Southbo		
Movement	1	4	7	8	9	10	⁻ 11		12
Lane Configuration		L	L		R				
v (veh/h)		10	13		14				
C (m) (veh/h)		616	197		526				
v/c		0.02	0.07		0.03				
95% queue length		0.05	0.21		0.08				
Control Delay (s/veh)		10.9	24.6		12.0				
LOS	·	В	С		В		1		
Approach Delay (s/veh)				18.1			•••••	£	
Approach LOS				С					·······
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Agency		TASK							and the second	ation,	water and the second	0.25				
Analyst		ken Howell		Analys	is Date	e Dec 2	9.2012			а Туре	1975-2700/2002-2002-2002	Othe	•			
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Intersection		59th Avenue, SB			11.7ma/01.777.00/117-0000	r 2030			the state of the s		Period	1> 7:	00			
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Adjusted Flow F	Rate (v)	, veh/h      *			695	159	553	1263	3	1	ĺ			200	1433	16
Adjusted Satura	ation Flo	ow Rate <i>(s)</i> , veh/h/in			1643	1533	1673	1643	3	· ·				1723	1723	1533
Queue Service	Time (g	<i>1s)</i> , S			5.7	5.6	9.1	8.5		Î				9.8	35.0	0.8
Cycle Queue C	learanc	e Time <i>(g₀</i> ), s			5.7	5.6	9.1	8.5						9.8	35.0	0.8
Capacity (c), ve	eh/h				2843	663	984	2913	3		Î			548	1096	488
Volume-to-Cap	acity Ra	atio <i>(X)</i>			0.244	0.239	0.562	0.434	4	Î				0.365	1.307	0.033
Available Capa	city (Ca)	, veh/h			2843	663	1672	2913	3	Ĩ	ľ			548	1096	488
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whether the state of the state	na n	RQ) (95th percentile	)		0.00	0.00	0.44	0.00		anatomisaaanoo ii yoo	muridis XIIII di Irrianuri A			0.47	0.00	0.00
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Initial Queue De			anonerineinen an		0.0	0.0	0.0	0.0	1		1			0.0	0.0	0.0
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Multimodal Re	sults				EB		1	WB		1		NB		1	SB	· · · · · ·
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Bicycle LOS Sc	Second Statement Statement Statement			0.8	annan an Seasannan	A	1.5	COLORADO CONTRACTO	Ā	ľ		antanan (antananan	Antoni in Hermitala albudah	1.8		Ā
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General Information					- 9 <b>6</b> .9, - 999				Inte	ersect	ion Inf	ormatio	on 🛛	l .	ม ล ม	8 Q 9	Т.
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	/an Buren South M	ountain			- and the second									- ^			
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Force Mode Fixed S	Simult. Gap N/S	On	Red	1.0		1.0	1.0	0.	0	0.0	0.0		i i				<u> </u>
				e de se			1				y # 16				ille sing is		
Timer Results			EBL	-	EE	ЗТ 🛛	WBI	-	W	/BT	NBI	-	NBT	SE	3L		SBT
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Phase Duration, s			6.2		72	2.6			66	3.4			37.4			and the second	n in diamant in bracksterni station
Change Period, (Y+Rc), s	S		5.0		5.	.0			5.	.0			5.0				
Max Allow Headway (MA	AH), s		3.1		0.	.0			0.	.0			3.1				
Queue Clearance Time (	(gs), s		2.3										30.1				
Green Extension Time (g	Je), S		0.9		0.	0			0.	.0			2.3				
Phase Call Probability	an a		0.23	3						1			1.00		Cut Alignment		
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Movement Group Resu	ilts			EB	}			W	B			NB			5	B	
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Adjusted Flow Rate (v), v	veh/h		9	886				173	and the second second second	109	78	1312	222	-			and and a second se
Adjusted Saturation Flow	v Rate <i>(s)</i> , veh/h/ln		1673	1643				164	and the second	1533	1673	1643	1533				
Queue Service Time (gs)	CONTRACTOR OF CALLS AND		0.3	12.8	an a			11.		2.2	1.9	28.1	13.1				eresentromanan energinede.
Cycle Queue Clearance	Time <i>(g₀</i> ), s		0.3	12.8				11.	20 m ci	2.2	1.9	28.1	13.1				
Capacity (c), veh/h			36	302	Manager Community			366	naiondáise (bezilé S	856	986	1453	452		navi maadaala		in Carriel Of a Claric Contesting
Volume-to-Capacity Rati	o (X)		0.245	0.29				0.47		0.127	0.079	0.903	0.491		utu () en altras inte		4575-00000000000000000000
Available Capacity (ca), v	INFORMATION CONTRACTOR OF A CONTRACTOR OF A CONTRACT OF A		152	302				366		856	1065	1568	488	<u> </u>			N WARMAN AND AND AND AND AND AND AND AND AND A
Back of Queue (Q), veh/			0.2	8.8				5.7	7	1.4	1.3	17.6	8.4				eren ar ananan samelik seo
Overflow Queue (Q3), ve	h/ln		0.0	0.0	1000 miles			0.0		0.0	0.0	0.0	0.0		ļ		
Queue Storage Ratio (Re	Q) (95th percentile)		0.01	0.00	) [			0.0		0.00	0.09	0.00	0.00			l	
Uniform Delay (d1), s/vel	n		53.3	15.6	3		The support of the Second second	7.7	7	6.5	28.0	37.3	32.0				
Incremental Delay (d2), s	s/veh		1.3	0.2				0.4	<b>i</b> [	0.3	0.0	7.0	0.3				
Initial Queue Delay (d3),	s/veh		0.0	0.0				0.0	)	0.0	0.0	0.0	0.0				
Control Delay (d), s/veh			54.6	15.8	3			8.1		6.8	28.0	44.2	32.3				
Level of Service (LOS)			D	В		ĺ		A		A	С	D	C				
Approach Delay, s/veh /	LOS		16.2	2	, E	3	8.0		4	A ]	41.8	3	D	0.	0		
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Multimodal Results				EB	}			W	B			NB			S	5B	to have been a set of the
Pedestrian LOS Score /	LOS		2.5		E	3	2.9	Ī	(	C	3.4		С	3.	7		D
Bicycle LOS Score / LOS	3		1.0		A	<u>۲</u>	1.2		F	A	1.4		A				

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Cycle, s	110.0	Reference Phase	2				-	]						<u> </u>	$\rightarrow$		_ <b> </b> ¥	$\Phi$
Offset, s	0	Reference Point	End	Green	0.6	<b>a</b> 53.4	4	32.1	0.0	<u> </u>	0.0	0.0			<u> </u>	-		
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constant prevenue may normalitable his mail to be a service of the service of the service of the service of the	WARANT PARTY AND AND AND AND AND AND AND AND AND AND	w Rate (s), veh/h/ln			1643	3 1533	3	1673	164	3	Í		100000000000000000000000000000000000000		1723	17	23	1533
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Overflow Queue	- AND CONTRACTOR OF A DESCRIPTION	AND AND AND AND AND AND AND AND AND AND			0.0	0.0		0.0	0.0		<u> </u>			124 <mark>- Alberton Stateston occurs</mark>	0.0	0.	*****	0.0
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Incremental De					0.3	0.8		1.4	0.0		1				0.1	11		0.0
Initial Queue De					0.0	0.0		0.0	0.2						0.1	0.		0.0
Control Delay (					11.5			55.1	3.8						30.2	49		27.8
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## **APPENDIX A**

## 2015 BUILD

File Name       VB67 AM .xus         Project Description       2015 Build         Demand Information       EB       WB       NB       SB         Approach Movement       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       D <th></th> <th></th> <th>HCS 2</th> <th>010 S</th> <th>ignali</th> <th>zed</th> <th>Inters</th> <th>ectior</th> <th>n Res</th> <th>sults S</th> <th>umm</th> <th>ary</th> <th></th> <th></th> <th></th> <th></th>			HCS 2	010 S	ignali	zed	Inters	ectior	n Res	sults S	umm	ary				
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Signal information           Cycle, s         100.0         Reference Prinse         2           Offset, s         0         Reference Prinse         2           Offset, s         0         Reference Prinse         2           Viciouril and Inconcinated         No         Simult. Gap EW         On         Read         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0	Approach Move	ment			L	Т	R	L	Т	R	L	T	R	L	( T	R
Cycle, s         100.0         Reference Phase         2         2         -3         3         5         100.0         302           Uncoordinated No         Simult. Gap EW         On         Red         100.0         10.0         10.0         32.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         3	Demand (v), ve	h/h		Alter fre	78	941	64	45	14	7 66	54	659	266	184	695	109
Cycle, s         100.0         Reference Phase         2         2         -3         3         5         100.0         302           Uncoordinated No         Simult. Gap EW         On         Red         100.0         10.0         10.0         32.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         30.0         3									<u> </u>							
Cycle, s         1000         Reference Point         P         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         S         F         F         S         F         F         S         F         F         S         F         F         F         S         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F         F <td>concernment of the second second second second second second second second second second second second second s</td> <td></td> <td></td> <td>n an Alban Alban Alban Alban Alban Alban /td> <td></td> <td>2</td> <td></td> <td></td> <td>L i</td> <td>5  ell</td> <td>, ett</td> <td>۵  </td> <td></td> <td></td> <td>ĸ.</td> <td>人</td>	concernment of the second second second second second second second second second second second second second s			n an Alban Alban Alban Alban Alban Alban		2			L i	5  ell	, ett	۵			ĸ.	人
Oliset, s         O         Netlefende Fond         End         Green B 37         2.8         8.0         0         10.0         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         3.00         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<td>Ŕ</td> <td></td> <td>์ ๆ ๆ</td> <td></td> <td><b>E</b>.</td> <td>17</td> <td></td> <td>₹</td> <td><u>}</u></td> <td><b>*</b>↓<b>*</b></td>	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	100.0	and the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second 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Uncoordinated         No         Simuli. Gap EW         On         Felow         S0         0.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0 <td>Offset, s</td> <td></td> <td></td> <td>······</td> <td>Green</td> <td>3.7</td> <td>2.6</td> <td>36.0</td> <td>4.0</td> <td>1.0</td> <td></td> <td></td> <td></td> <td><b>N</b></td> <td></td> <td></td>	Offset, s			······	Green	3.7	2.6	36.0	4.0	1.0				<b>N</b>		
Timer Results         EBL         EBT         WBL         WB1         NBT         SBL         SBT           Case Number         2.0         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         4.0         1.1         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00	Uncoordinated		Construction of the second second second second second second second second second second second second second	-	Yellow	3.0	0.0	3.0	3.0	3.0	3.0		~	7	<b>S</b>	<b>N</b>
Assigned Phase       5       2       1       6       3       8       7       4         Gase Number       2.0       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0 <t< td=""><td>Force Mode</td><td>Fixed</td><td>Simult. Gap N/S</td><td>On</td><td>Red</td><td>1.0</td><td>0.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td>1.0</td><td></td><td></td><td></td><td>9.9.3</td><td></td></t<>	Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	1.0	1.0				9.9.3	
Assigned Phase       5       2       1       6       3       8       7       4         Gase Number       2.0       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       1.1       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0 <t< td=""><td></td><td></td><td></td><td>an an td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>9</td><td></td><td></td></t<>				an an an an an an an an an an an an an a										9		
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Phase Duration, s       10.3       42.5       7.7       40.0       8.0       36.8       13.0       41.7         Change Period, (Y+Re), s       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0       4.0     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Change Period, (Y+Rc), s         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0         4.0 <td>Case Number</td> <td></td> <td></td> <td></td> <td><u></u></td> <td>Manager and an and an and an an an an an an an an an an an an an</td> <td>аналастания проделение на сос</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td>	Case Number				<u></u>	Manager and an and an and an an an an an an an an an an an an an	аналастания проделение на сос	8						2		
Max Atlow Headway (MAH), s       3.1       0.0       3.1       0.0       3.1       0.0       3.1       3.1       3.1       3.1       3.1         Queue Clearance Time (gs), s       6.8       3.8       3.8       4.2       28.9       8.8       20.3         Green Extension Time (gs), s       0.1       0.0       0.1       0.0       0.0       3.8       0.2       4.3         Phase Call Probability       0.91       0.74       0.80       1.00       1.00       1.00         Max Out Probability       0.00       0.00       0.00       0.00       0.18       0.02       0.02         Movement Group Results       EB       WB       NB       SB       SB         Approach Movement       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       R <th< td=""><td>Phase Duration</td><td>, S</td><td>warne warne wa</td><td></td><td>10.3</td><td>}</td><td>42.5</td><td>7.7</td><td></td><td>40.0</td><td></td><td>terestation and the second</td><td>ALCONTRACTOR OF SOME PARTY OF</td><td>Sector Contractor</td><td></td><td>enanose contractory descent</td></th<>	Phase Duration	, S	warne warne warne warne warne warne warne warne warne warne warne warne warne warne warne warne warne warne wa		10.3	}	42.5	7.7		40.0		terestation and the second	ALCONTRACTOR OF SOME PARTY OF	Sector Contractor		enanose contractory descent
Queue Clearance Time (ga), s         6.8         3.8         4.2         28.9         8.8         20.3           Green Extension Time (ga), s         0.1         0.0         0.1         0.0         0.0         3.8         0.2         4.3           Phase Call Probability         0.91         0.74         0.80         1.00         1.00         1.00           Max Out Probability         0.00         0.00         0.00         0.80         1.00         1.00         1.00           Movement Group Results         EB         WB         NB         C         7         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         R	Change Period,	(Y+R₀)	, S		4.0		4.0	4.0		4.0	4.0		4.0	4.0		4.0
Green Extension Time (go), s       0.1       0.0       0.1       0.0       0.1       0.0       0.0       3.8       0.2       4.3         Phase Call Probability       0.91       0.74       0.80       1.00       1.00       1.00       1.00         Max Out Probability       0.00       0.00       0.00       0.18       0.02       0.02         Movement Group Results       EB       WB       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T	Max Allow Head	dway (N	1AH), s		3.1		0.0	3.1	17000000000000000000000000000000000000	0.0	3.1	//////////////////////////////////////	3.1	2		3.1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Queue Clearan	ce Time	: (gs), s		6.8			3.8			4.2		28.9	8.8		20.3
Max Out Probability       0.00       0.00       0.18       0.02       0.02         Movement Group Results       EB       WB       NB       SB       SB         Approach Movement       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       L       T       R       R       R       R       R       R       R       <	Green Extensio	n Time	(ge), s		0.1		0.0	0.1		0.0	0.0		3.8	0.2		4.3
Movement Group Results         EB         WB         NB         SB           Approach Movement         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         R         R	Phase Call Prot	oability			0.91			0.74	\$		0.80		1.00	1.00	)	1.00
Approach Movement         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R	Max Out Probal	bility			0.00	)		0.00	)		0.00	)	0.18	0.02	2	0.02
Approach Movement         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R         L         T         R					ar in in		ur de la co						1.1			-10 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -
Assigned Movement       5       2       12       1       6       16       3       8       18       7       4       14         Adjusted Flow Rate (v), veh/h       85       552       540       49       160       72       59       529       477       200       448       426         Adjusted Saturation Flow Rate (s), veh/h/In       1723       1810       1769       1723       1810       1533       1723       1810       1631       1723       1810       1733       1810       1631       1723       1810       1733       1810       1631       1723       1810       1733       1810       1631       1723       1810       1733       1810       1631       1723       1810       1733       1810       1631       1723       1810       1733       1810       1631       1723       1810       1631       1723       1810       1631       1723       1810       1631       1631       1723       1810       1733       1810       1733       1810       1733       1810       1733       1810       1733       1810       1733       1810       1733       1810       1733       1810       1733       1810       1733       1810 <td>Commencement and an an inclusion of the Distance of the</td> <td>and the second second second second second second second second second second second second second second second</td> <td>ults</td> <td></td> <td></td> <td>EB</td> <td></td> <td></td> <td>WB</td> <td></td> <td></td> <td>NB</td> <td>-</td> <td></td> <td></td> <td></td>	Commencement and an an inclusion of the Distance of the	and the second second second second second second second second second second second second second second second	ults			EB			WB			NB	-			
Adjusted Flow Rate (v), veh/h       85       552       540       49       160       72       59       529       477       200       448       428         Adjusted Saturation Flow Rate (s), veh/h/ln       1723       1810       1769       1723       1810       1533       1723       1810       1631       1723       1810       1723         Queue Service Time (gs), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Cycle Queue Clearance Time (gs), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Cycle Queue Clearance Time (gs), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       6.8       18.3       18.3         Capacity (c), veh/h       108       697       681       203       1301       551       260       593       535       258       683       650         Volume-to-Capacity (c_3), veh/n       452       697       681       591       1301       551       467       778       702       379       868 <td>Approach Move</td> <td>ment</td> <td></td> <td></td> <td>discussion and the second second</td> <td>Contraction of the second second</td> <td></td> <td>L</td> <td></td> <td></td> <td></td> <td>And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second 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Adjusted Saturation Flow Rate (s), veh/h/ln       1723       1810       1723       1810       1533       1723       1810       1631       1723       1810       1723         Queue Service Time (gc), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Cycle Queue Clearance Time (gc), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Cycle Queue Clearance Time (gc), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Capacity (c), veh/h       108       697       681       203       1301       551       260       593       535       258       683       650         Volume-to-Capacity (c ₃ ), veh/h       452       697       681       591       1301       551       467       778       702       379       868       827         Back of Queue (Q), veh/ln (95th percentile)       3.8       15.8       15.5       1.2       1.8       1.7       1.6       16.9       15.7       4.	CONTRACTOR OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER							<u> </u>		and the second second second second second second second second second second second second second second second	NUMBER OF THE OWNER OF THE OWNER OF				4	a a construction of the second second second second second second second second second second second second se
Queue Service Time (gs), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Cycle Queue Clearance Time (gs), s       4.8       25.0       26.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Capacity (c), veh/h       108       697       681       203       1301       551       260       593       535       258       683       650         Volume-to-Capacity Ratio (X)       0.784       0.792       0.793       0.241       0.123       0.130       0.226       0.891       0.891       0.774       0.655       0.656         Available Capacity (c ₀ ), veh/h       452       697       681       591       1301       551       467       778       702       379       868       827         Back of Queue (Q), veh/ln (95th percentile)       3.8       15.8       15.5       1.2       1.8       1.7       1.6       16.9       15.7       4.7       10.7       10.3         Overflow Queue (Q ₃ ), veh/ln       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Construction of the region of the second second second second second second second second second second second		CONTRACTOR OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER								AND A DESCRIPTION OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF	Construments and the Construction of the		COMPANY OF THE OWNER OF	-	Conservation and the second second second second second second second second second second second second second
Cycle Queue Clearance Time (g_0), s       4.8       25.0       25.1       1.8       2.4       2.6       2.2       26.9       26.9       6.8       18.3       18.3         Capacity (c), veh/h       108       697       681       203       1301       551       260       593       535       258       683       650         Volume-to-Capacity Ratio (X)       0.784       0.792       0.793       0.241       0.123       0.130       0.226       0.891       0.891       0.774       0.655       0.656         Available Capacity (c ₀ ), veh/ln       452       697       681       591       1301       551       467       778       702       379       868       827         Back of Queue (Q ₀ ), veh/ln (95th percentile)       3.8       15.8       15.5       1.2       1.8       1.7       1.6       16.9       15.7       4.7       10.7       10.3         Overflow Queue (Q ₃ ), veh/ln       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <td< td=""><td>Adjusted Satura</td><td>ation Flo</td><td>w Rate (s), veh/h/ln</td><td></td><td>1723</td><td></td><td>1769</td><td>1723</td><td>a second constrained in the second constrained in the second constrained in the second constrained in the second</td><td>1533</td><td></td><td>NERVICE AND AND AND AND AND AND AND AND AND AND</td><td></td><td>1723</td><td></td><td>12477234222000000000000000000000000000000</td></td<>	Adjusted Satura	ation Flo	w Rate (s), veh/h/ln		1723		1769	1723	a second constrained in the second constrained in the second constrained in the second constrained in the second	1533		NERVICE AND AND AND AND AND AND AND AND AND AND		1723		12477234222000000000000000000000000000000
Capacity (c), veh/h       108       697       681       203       1301       551       260       593       535       258       683       650         Volume-to-Capacity Ratio (X)       0.784       0.792       0.793       0.241       0.123       0.130       0.226       0.891       0.891       0.774       0.655       0.656         Available Capacity (cs), veh/h       452       697       681       591       1301       551       467       778       702       379       868       827         Back of Queue (Q), veh/ln (95th percentile)       3.8       15.8       15.5       1.2       1.8       1.7       1.6       16.9       15.7       4.7       10.7       10.3         Overflow Queue (Qs), veh/ln       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	And which is a support of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	Constant Contractor Contractor Contractor		zomozikihiteri usako para	AND DO DO DO DO DO DO DO DO DO DO DO DO DO						·	Variation and a second state			and and a state of the second second second second second second second second second second second second second	
Volume-to-Capacity Ratio (X)       0.784       0.792       0.793       0.241       0.123       0.130       0.226       0.891       0.891       0.774       0.655       0.656         Available Capacity (ce), veh/h       452       697       681       591       1301       551       467       778       702       379       868       827         Back of Queue (Q), veh/ln (95th percentile)       3.8       15.8       15.5       1.2       1.8       1.7       1.6       16.9       15.7       4.7       10.7       10.3         Overflow Queue (Q3), veh/ln (95th percentile)       0.50       0.00       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 </td <td>CONTRACTOR CONTRACTOR CONTRA</td> <td>the second second second second second second second second second second second second second second second s</td> <td>e Time <i>(g₀</i>), s</td> <td></td> <td></td> <td></td> <td></td> <td><u>.</u></td> <td></td> <td></td> <td>ANALASSING STREET, SALASSING STREET, SALASSING STREET, SALASSING STREET, SALASSING STREET, SALASSING STREET, SA</td> <td>newspaperspectration in the second second second second second second second second second second second second</td> <td>and the second second second second second second second second second second second second second second second</td> <td>gamment and a second</td> <td></td> <td></td>	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRA	the second second second second second second second second second second second second second second second s	e Time <i>(g₀</i> ), s					<u>.</u>			ANALASSING STREET, SALASSING STREET, SALASSING STREET, SALASSING STREET, SALASSING STREET, SALASSING STREET, SA	newspaperspectration in the second second second second second second second second second second second second	and the second second second second second second second second second second second second second second second	gamment and a second		
Available Capacity (ce), veh/h       452       697       681       591       1301       551       467       778       702       379       868       827         Back of Queue (Q), veh/ln (95th percentile)       3.8       15.8       15.5       1.2       1.8       1.7       1.6       16.9       15.7       4.7       10.7       10.3         Overflow Queue (Q3), veh/ln       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <t< td=""><td>CONTRACTOR OF A CONTRACTOR OF A</td><td>the second second second second second second second second second second second second second second second s</td><td></td><td></td><td></td><td></td><td></td><td></td><td>and an an an an an an an an an an an an an</td><td>The second second second second second second second second second second second second second second second se</td><td>and an an an an an an an an an an an an an</td><td>10000000000000000000000000000000000000</td><td>and the second second second second second second second second second second second second second second second</td><td>Sector Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of 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second second second s							and an an an an an an an an an an an an an	The second second second second second second second second second second second second second second second se	and an an an an an an an an an an an an an	10000000000000000000000000000000000000	and the second second second second second second second second second second second second second second second	Sector Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of 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Back of Queue (Q), veh/ln (95th percentile)       3.8       15.8       15.5       1.2       1.8       1.7       1.6       16.9       15.7       4.7       10.7       10.3         Overflow Queue (Q3), veh/ln       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0 <td>Volume-to-Capa</td> <td>acity Ra</td> <td>tio (X)</td> <td></td> <td></td> <td></td> <td></td> <td>Concernment of the second</td> <td>CONCERNMENT OF THE OWNER</td> <td>akan manana manana mata</td> <td>er anne ser anne se anne se anne se anne se anne se anne se anne se anne se anne se anne se anne se anne se an</td> <td></td> <td>CONTRACTOR OF CONTRACTOR</td> <td></td> <td>0.655</td> <td>COMPANY AND A COMPANY AND A</td>	Volume-to-Capa	acity Ra	tio (X)					Concernment of the second	CONCERNMENT OF THE OWNER	akan manana manana mata	er anne ser anne se anne se anne se anne se anne se anne se anne se anne se anne se anne se anne se anne se an		CONTRACTOR OF CONTRACTOR		0.655	COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A
Overflow Queue (Q3), veh/ln       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Available Capad	city (Ca),	veh/h		452	697	681	591	1301		467	778	702	379	868	827
Queue Storage Ratio (RQ) (95th percentile)       0.50       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       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       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       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       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       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       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       <	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Complete and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	The product of the second second second second second second second second second second second second second s		3.8	15.8	15.5	1.2	1.8	1.7	1.6	16.9	15.7	4.7	10.7	10.3
Uniform Delay (d1), s/veh       45.1       21.0       21.0       21.2       17.3       17.3       21.4       26.5       26.5       21.6       20.0       20.0         Incremental Delay (d2), s/veh       4.6       9.0       9.2       0.2       0.2       0.5       0.2       8.7       9.5       3.0       0.5       0.6         Initial Queue Delay (d2), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Overflow Queue	e (Q3), v	/eh/in		Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Construction of the Constr									ð/		-
Incremental Delay (d2), s/veh       4.6       9.0       9.2       0.2       0.2       0.2       8.7       9.5       3.0       0.5       0.6         Initial Queue Delay (d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0<	Queue Storage	Ratio (I	RQ) (95th percentile	)	0.50	0.00	0.00	0.16	0.00	0.00	0.20	0.00	0.00	0.62	0.00	Common and the second second
Initial Queue Delay (d3), s/veh       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0       0.0	Uniform Delay (	'd1), s/ve	eh		45.1	21.0	21.0	21.2	17.3	17.3	21.4	26.5	26.5	21.6	20.0	20.0
Control Delay (d), s/veh       49.8       30.0       30.2       21.5       17.5       17.8       21.5       35.2       36.0       24.6       20.6       20.6         Level of Service (LOS)       D       C       C       C       B       B       C       D       D       C       C         Approach Delay, s/veh / LOS       31.5       C       18.3       B       34.8       C       21.3       C         Intersection Delay, s/veh / LOS       21.5       2.8       C       18.3       B       34.8       C       21.3       C         Multimodal Results       EB       EB       WB       NB       SB       SB       SB       SB       SB         Pedestrian LOS Score / LOS       2.8       C       2.8       C       2.9       C       3.2       C	Incremental Del	ay (d2),	s/veh		4.6	9.0	9.2	0.2	0.2	0.5	0.2	8.7	9.5	3.0	0.5	0.6
Control Delay (d), s/veh       49.8       30.0       30.2       21.5       17.5       17.8       21.5       35.2       36.0       24.6       20.6       20.6         Level of Service (LOS)       D       C       C       C       B       B       C       D       D       C       C         Approach Delay, s/veh / LOS       31.5       C       18.3       B       34.8       C       21.3       C         Intersection Delay, s/veh / LOS       21.5       2.8       C       18.3       B       34.8       C       21.3       C         Multimodal Results       EB       EB       WB       NB       SB       SB       SB       SB       SB         Pedestrian LOS Score / LOS       2.8       C       2.8       C       2.9       C       3.2       C	Initial Queue De	elay (d3)	, s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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Analyst	kmh		Interse	ction		59th Ave	nue/Fillmo	re Street
Agency/Co.	TASK		Jurisdi			City of Pl	hoenix	
Date Performed	12/28/20		Analys	is Year		2015		
Analysis Time Period	AM Pk H	r						
Project Description 20	)15 Build							
East/West Street: Fillm					eet: 59th A	venue		
Intersection Orientation:			Study F	Period (h	rs): 0.25			
Vehicle Volumes a	nd Adjustme							
Major Street		Northbound			<u> </u>	Southbou	und	
Movement	1	<u>2</u> T	3		4	5		6
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Volume (veh/h) Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92
Hourly Flow Rate, HFR								
(veh/h)	13	755	0		0	1079		23
Percent Heavy Vehicles	5				0			
Median Type				Undivid	led			
RT Channelized			0					0
Lanes	1	2	0		0	2		1
Configuration	L	T				Т		R
Upstream Signal		0				0		
Minor Street		Eastbound				Westbou	nd	
Movement	7	8	9		10	11		12
	L	Т	R		L	T		R
Volume (veh/h)	24	( 00	36		4.00	1 1 1 1 1		4.00
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	1.00	0.92		1.00	1.00		1.00
(veh/h)	26	0	39		0	0		0
Percent Heavy Vehicles	5	0	5		0	0		0
Percent Grade (%)		0	•	•		0		
Flared Approach		N				N	1	
Storage		0			·····	0		
RT Channelized			0					0
Lanes	0	0	0		0	0		0
Configuration		LR				1		
Delay, Queue Length, a	and Level of Se	rvice						
Approach	Northbound	Southbound	1	Vestbou	nd	[	Eastbound	
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L			· · · ·			LR	
v (veh/h)	13						65	
C (m) (veh/h)	612						211	
v/c	0.02						0.31	1
95% queue length	0.07					<b> </b>	1.25	1
Control Delay (s/veh)	11.0						29.5	
LOS	B						29.5 D	
Approach Delay (s/veh)						1	29.5	
Approach LOS	orida, All Rights Rese		L		rsion 5.6	Genera	D	

HCS+TM Version 5.6

General Informatio	n		Site I	nformat	tion			
Analyst	kmh		Interse	ction		59th Ave	nue/Fillma	ore Stree
Agency/Co.	TASK	,	Jurisdi	ction		City of P		
Date Performed	12/28/20	12	Analys	is Year		2015		
Analysis Time Period	PM Pk H	r						
Project Description 20	015 Build							
East/West Street: Fillm			North/S	South Stre	et: 59th A	venue		
Intersection Orientation:	North-South		Study F	Period (hr	s): 0.25			
Vehicle Volumes a	nd Adjustme	ents						
Major Street	1	Northbound				Southbo	und	
Movement	1	2	3		4	5		6
	L	Т	R		L	T T		R
Volume (veh/h)	36	1119				740		30
Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	39	1216	0		0	804		32
Percent Heavy Vehicles	5				0			
Median Type				Undivide	əd		I	· · ·
RT Channelized			0	T			l	0
Lanes	1	2	0		0	2		1
Configuration	Ĺ	<u> </u>	Ť					R
Upstream Signal		1				1		
Minor Street		Eastbound	····			Westbou	und	
Movement	7	8	9		10	11		12
	L	T	R		L	T		R
Volume (veh/h)	32	· · · · ·	2			1		1
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00
Hourly Flow Rate, HFR (veh/h)	34	0	2		0	0		0
Percent Heavy Vehicles	5	0	5		0	0		0
Percent Grade (%)		0				0		v
Flared Approach		Ň				Ň		
Storage		0	-			0		
RT Channelized			0					
						<del> </del>		0
Lanes	0	0	0		0	0		0
Configuration		<i>LR</i>		I				
Delay, Queue Length, a								
Approach	Northbound	Southbound		Vestboun			Eastbound	
Novement	1	4	7	8	9	10	11	12
ane Configuration	L						LR	
/ (veh/h)	39						36	1
C (m) (veh/h)	775						163	1
ı/c	0.05						0.22	1
5% queue length	0.16						0.81	1
Control Delay (s/veh)	9.9						33.2	+
OS					_			
	A	·····				<u> </u>	D	<u> </u>
pproach Delay (s/veh)							33.2	
Approach LOS						1	D	

HCS+TM Version 5.6

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		HCS 20	010 S	ignali	zed	Inters	ection	Re	sults	s Si	umma	ary				
		de estas														
General Inform	nation								Inters	sect	ion Info	ingerna and an an an an an an an an an an an an an	n			
Agency		TASK Engineering							Durat	ion,	h	0.25				S.
Analyst	97	Ken Howell		Analys	is Dat	e Dec 2	28, 2012		Area	Тур	9	Other			ł,	
Jurisdiction		City of Phoenix		Time F	Period	AM P	k Hr		PHF			0.92		- 10 M	и÷Е S	4- ↓ ↓
Intersection		59th Avenue/Roose	velt St	Analys	is Yea	ar 20 <b>23</b>	15		Analy	sis I	Period	1> 7:0	0	5		ŝ
File Name		59 Roo AM .xus													<u> 11</u>	
Project Descrip	tion	2015 Build						90 874 <u>1</u> 85						<u>N</u>	នាក់ក	8-0
								14/			1				SB	
Demand Inform	and the second second second second second second second second second second second second second second second			1	EB			W T T		R		NB T T	R		ТТ	R
Approach Move				L 127	T 73	R 79	143	2		<u>г</u> 176	ц. Ц. З	615	84	109	1299	91
Demand (v), ve	h/h			127	13	1 79	145	<u> </u>	ין י	170		1 010	1 04	1 103	1 1200	
Signal Informa	tion			1	ſ	3	<u> </u>	Ŀ		瓜	- 20.					I
Cycle, s	100.0	Reference Phase	2	5	ا م <del>ا</del>			æ,		540		Since V		4	5 P	
Offset, s	0	Reference Point	End		0.5					0	27.4			<u>×                                    </u>	3	-
Uncoordinated	No	Simult. Gap E/W	On	Green Yellow		0.6	43.4	0.4		1.8 3.0	3.0	-	<u>,                                      </u>		V I	<b>N</b> 2
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0		1.0	1.0					<u> </u>
		, <u>, , , , , , , , , , , , , , , , , , </u>	-1													
Timer Results		· · ·		EBL	-	EBT	WB	L	WB1	r	NBL		NBT	SBL	-	SBT
Assigned Phas	e			5		2	1		6		3		8	7		4
Case Number				1.1		4.0	1.1	****	4.0		1.1	and the second second second second second second second second second second second second second second second	4.0	1.1		4.0
Phase Duration	ì, S			10.5	5	47.4	11.0		48.0		4.4		31.4	10.2		37.1
Change Period	, (Y+Rc)	l, s	1999 Martin P. P. State	4.0		4.0	4.0		4.0		4.0		4.0	4.0		4.0
Max Allow Hea	dway (A	/AH), s		3.1		0.0	3.1		0.0		3.1		3.1	3.1		3.1
Queue Clearan	ce Time	e (gs), s		6.4			6.9	and the second second second second second second second second second second second second second second second			2.1		21.1	6.3		27.2
Green Extensio	Manager and a second second second second second second second second second second second second second second	(ge), s		0.2		0.0	0.3		0.0		0.0		6.0	0.1		6.0
Phase Call Pro	apartition and an an an an an an an an an an an an an			0.98		The second second second second second second second second second second second second second second second s	0.99				0.09		1.00	0.96	management of the state of the state	1.00
Max Out Proba	bility			0.00	)	10	0.00	<u>,  </u>			0.00		0.07	0.00	)	0.07
Movement Gro		sulto		1 	EB		Na kata na kata na kata na kata na kata na kata na kata na kata na kata na kata na kata na kata na kata na kata	WE	3	l		NB		ľ	SB	
Approach Move		Suns	name and the second second second second second second second second second second second second second second	1	Т	R		ГТ	- F	2	L	T	R	L	Т	R
Assigned Move	and the second second second second			5	2	12	1	6		6	3	8	18	7	4	14
Adjusted Flow	Contraction of the local division of the loc	veh/h		138	165		155	213	3		3	388	372	118	1019	492
And a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	A DESCRIPTION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	ow Rate (s), veh/h/ln		1723	1655		1723	155	8		1723	1810	1733	1723	1810	1746
Queue Service				4.4	6.3		4.9	8.9	)		0.1	19.1	19.1	4.3	25.2	25.2
Cycle Queue C			2000 1919 - 1919	4.4	6.3		4.9	8.9			0.1	19.1	19.1	4.3	25.2	25.2
Capacity (c), ve	1000 Contraction of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the local sector of the lo	<u> </u>		580	718	ĺ	631	685	5	Ì	106	495	474	235	1199	579
Volume-to-Cap	warrant a second and a second second	atio (X)		0.238	0.23	D	0.246	0.31	1		0.031	0.783	0.785	0.503	0.850	0.850
Available Capa	terror consideration of the			1062	718		1103	68	5		374	828	793	404	1866	900
And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		h/In (95th percentile)	)	2.9	4.4		3.2	5.9			0.1	11.9	11.6	3.0	14.5	14.4
Overflow Queu	e (Q3), '	veh/In		0.0	0.0		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0
Queue Storage	e Ratio (	(RQ) (95th percentile	)	0.38	0.00	inter constant and a second	0.42	0.0			0.01	0.00	0.00	0.39	0.00	0.00
Uniform Delay	(d1), s/v	reh		14.1	17.8		13.5	18.:	and a second		28.0	29.1	29.1	22.3	25.7	25.7
Incremental De	elay (d2)	, s/veh	···	0.1	0.7		0.1	1.2	mmm+2+(//201470		0.0	1.0	1.1	0.6	1.4	2.8
Initial Queue D	and the second second second second second second second second second second second second second second second			0.0	0.0		0.0	0.0		ļ	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay	the second second second second second second second second second second second second second second second s	A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL		14.1	18.5		13.5	19.	4		28.0	30.2	30.2	22.9	27.1	28.5
Level of Servic	in the second second second second second second second second second second second second second second second	CARD CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF	a and a second disc	B	<u> </u>	<u> </u>	B		<u> </u>		<u> </u>			C		C C
Approach Dela	the second second second second second second second second second second second second second second second s			16.5	<b>D</b>	B	16.	9	В		30.2	2	С	27.2	<u>  </u>	С
Intersection De	elay, s/v	eh / LOS		II		2	25.6			J	1			C		
Multimodal Re	aulto			1	EB		1	W	3			NB	an start	1	SB	
Pedestrian LO		1108		3.2		С	2.9	www.comega	, С		2.3		В	2.3		B
Bicycle LOS S				1.0		A	1.1		Ā		1.1		Ā	1.4	No. of Concession, Name of Concession, Name of Concession, Name of Concession, Name of Concession, Name of Conce	A
5,0,00 100 0		~~		н						1		R		R		

HCS 2010[™] Streets Version 6.41

		HCS 2	010 S	ignali	zed	Inters	ection	Res	ults S	umma	ary				
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General Inform	nation								ntersec	tion Info	ormatio	n	<u>)</u>		
Agency		TASK Engineering						[	Duration,	h	0.25			4	
Analyst		Ken Howell		Analys	is Dat	e Dec 2	8, 2012	[/	rea Typ	6	Other				New y
Jurisdiction		City of Phoenix		Time F	Period	PM P	k Hr	F	PHF		0.92			₩ ₩÷ÊE \$	1 1
Intersection		59th Avenue/Roose	evelt St	Analys	is Yea	ar 2020	15	ļ	Analysis	Period	1> 7:0	)0			1 Mill
File Name		59 Roo PM .xus		NA										<u></u>	
Project Descrip	tion	2015 Build											5	A A & A I	8 F.
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Demand Inform	nation		and the second	e ljestick	EB			WB			NB	:		SB	
Approach Move				L	T	R	L	T	R	L	T	R		T	R
Demand (v), ve	h/h			53	73	5	31	45	196	6	1078	157	154	1071	118
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Signal Informa	panana ana ini da	Deferred Dhase	م		2			₩ >	.  2K	1			<b>A</b>	ς,	
Cycle, s	100.0	Reference Phase Reference Point	2 End	3			5	<u>ר</u>		×/			<b>V</b>		
Offset, s	0		End	Green		1.0	31.8	0.8	2.1	41.3	_	_	<u>A</u>		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR O	0.0	3.0	<u>3.0</u> 1.0	3.0	<u>3.0</u> 1.0		<u>^  </u>	¥	<u>ъ</u>	Ŷ
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	10.0	11.0	11.0	11.0	<u></u>		1		1	
Timer Results				EBL	<u> </u>	EBT	WB	1	WBT	NBL	-1	NBT	SBI		SBT
Assigned Phas	^			5		2		-	6	3	Emili Falsa oki (isana)	8	7		4
Case Number	G		704-00-A	1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	) e	an an an an an an an an an an an an an a		8.0		36.8	7.0		35.8	4.8		45.3	10.9	)	51.4
Change Period	Contraction of the second second	C		4.0		4.0	4.0		4.0	4.0		4.0	4.0	and the second second second second second second second second second second second second second second second	4.0
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Green Extensio		Contraction of the second second second second second second second second second second second second second s		0.1		0.0	0.0		0.0	0.0		4.6	0.2		7.9
Phase Call Pro	201-10-10-10-10-10-10-10-10-10-10-10-10-1	(90), 0	·	0.80			0.61			0.17		1.00	0.99	•	1.00
Max Out Proba	No. of the owner of the owner of the owner of the owner of the owner of the owner of the owner owner owner owne			0.00			0.00			0.00		0.63	0.00	)	0.06
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Movement Gro	oup Res	sults	n magaawa	te te ta de te ta	EB			WB			NB	-	Į	SB	
Approach Move	ement			L	Т	R	L	T	R	L	Т	R	<u>L</u>	T	R
Assigned Move	ement			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow	Rate (v)	, veh/h		58	85		34	262		7	684	658	167	877	416
Adjusted Satur	ation Flo	ow Rate (s), veh/h/lr	1	1723	1789	9	1723	1578		1723	1810	1729	1723	1810	1714
Queue Service	Time (g	<i>γ₅)</i> , s		2.2	3.3		1.3	13.6		0.2	34.3	34.7	4.8	13.2	13.2
Cycle Queue C	learanc	e Time <i>(g₀</i> ), s		2.2	3.3	entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre	1.3	13.6		0.2	34.3	34.7	4.8	13.2	13.2
Capacity (c), ve	the second second second second second second second second second second second second second second second s		anana maskatala	338	586		498	502		227	748	714	217	1714	812
Volume-to-Cap	Contraction in the local data			0.171	0.14	INCOME AND INCOME IN CONTRACTOR OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNE	0.068	0.522	2	0.029	0.915	0.921	0.773	0.511	0.512
Available Capa				610	586		787	502		489	816	780	374	1852	877
A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR O	AND DESCRIPTION OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER	h/In (95th percentile	)	1.6	2.6		0.9	9.4		0.2	20.5	20.2	3.4	7.7	7.3
Overflow Queu	The second second second second second second second second second second second second second second second s			0.0	0.0	and the second second second second second second second second second second second second second second second	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
289100-00 C	and a second second second second second second second second second second second second second second second	RQ) (95th percentile	)	0.20	0.00		0.12	0.00	with the second second	0.02	0.00	0.00	0.44	0.00	0.00
Uniform Delay	DOLLAR CONTRACTOR OF THE OWNER			21.8	23.7		21.7	27.9		17.0	20.9	21.0	21.7	12.1	12.1
Incremental De	and and the second second second second second second second second second second second second second second s	and the second second second second second second second second second second second second second second second		0.1	0.5		0.0	3.8		0.0	13.5	14.8	2.2	0.1	0.2
Initial Queue D	and the second second second second second second second second second second second second second second second	and the second second second second second second second second second second second second second second second		0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Control Delay	What we want the second second second second second second second second second second second second second se			21.9	24.3		21.7	31.7		17.0	34.4	35.8	23.9 C	12.2 B	12.3 B
Level of Servic	The second second second second second second second second second second second second second second second se	and the second second second second second second second second second second second second second second second		C		<u> </u>	C			B 35 (			13.6	Contractor and Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of Contractor of C	B
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Offset, s	0	Reference Point	End	Green	13	3.3	27.4	3.2	3.2	45.5			× ×		
Uncoordinated	No	Simult. Gap E/W	On	Yellow		0.0	3.0	3.0	0.0	3.0		~		<b>\</b>	<b>N</b>
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	0.0	1.0		ÿ			
<b>Timer Results</b>			1.174	EBL	-	EBT	WB		WBT	NBL	-	NBT	SBI	-	SBT
Assigned Phas	e			5		2	1		6	3	·	8	7		4
Case Number				1.1		3.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	1, S			8.6		34.7	5.3		31.4	7.2		49.5	10.4	l I	52.8
Change Period	, (Y+R₀)	, S		4.0		4.0	4.0		4.0	4.0		4.0	4.0		4.0
Max Allow Hea	dway (N	1AH), s		3.1		0.0	3.1		0.0	3.1		3.1	3.1		3.1
Queue Clearan	ice Time	e (gs), s		5.1			2.5			3.1		10.5	6.4		50.8
Green Extensio	on Time	<i>(g₀),</i> s		0.1		0.0	0.0		0.0	0.0		8.7	0.2		0.0
Phase Call Pro	bability			0.89		·	0.26	3		0.64	4	1.00	0.99	)	1.00
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Approach Move	ement			L	Т	R	L	Т	R	L	T	R	L	T	R
Assigned Move	ement			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow	Rate (v)	, veh/h		80	429	5	11	1536	721	37	609	302	155	910	900
Adjusted Satur	ation Flo	ow Rate (s), veh/h/ln	1	1723	1723	1610	1723	1810	1656	1723	1810	1791	1723	1810	1730
Queue Service	Time (g	ys), S		3.1	8.8	0.2	0.5	27.4	27.4	1.1	8.5	8.5	4.4	48.8	48.8
Cycle Queue C	learanc	e Time <i>(g₀</i> ), s		3.1	8.8	0.2	0.5	27.4	27.4	1.1	8.5	8.5	4.4	48.8	48.8
Capacity (c), ve	əh/h			152	1058	494	297	991	454	132	1648	816	402	883	844
Volume-to-Cap	acity Ra	atio <i>(X)</i>		0.530	0.406	0.011	0.037	1.550	449 (107 107 107 107 107 107 107 107 107 107	0.279	0.370	0.370	0.387	1.031	1.066
Available Capa	icity (Ca)	, veh/h		348	1058	494	551	991	454	353	1648	816	567	883	844
Back of Queue	(Q), ve	h/In (95th percentile)	)	2.2	6.3	0.1	0.3	69.6	68.9	0.8	5.4	5.4	2.7	32.3	35.1
Overflow Queu	ie (Q3), v	veh/ln		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Storage	e Ratio (	RQ) (95th percentile	e)	0.29	0.00	0.00	0.04	0.00	0.00	0.10	0.00	0.00	0.35	0.00	0.00
Uniform Delay	(d1), s/v	eh		25.8	23.1	20.5	25.6	31.7	31.7	23.4	12.4	12.4	11.3	17.5	17.5
Incremental De	elay (d2)	, s/veh		1.1	1.2	0.0	0.0	252.3	275.7	0.4	0.1	0.1	0.2	38.6	50.1
Initial Queue D	elay (da	), s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay	and the second second second second second second second second second second second second second second second	Contraction of the second second second second second second second second second second second second second s		26.8	24.2	20.6	25.6	284.1	307.5	23.8	12.4	12.5	11.5	56.1	67.6
Level of Servic	manager and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	and the second second second second second second second second second second second second second second second		С	С	C C	C	F	F	С	В	В	В	F	F
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Bicycle LOS S	core / L(	OS		0.9		Α	1.7		Α	1.0		Α	2.1		В
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Offset, s	0	Reference Point	End	Green	1.3	8.9	26.9	1.(		34.1			Ā		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	3.0	3.0	3.0	3.0		3.0		7		<b>S</b>	_ <b>₹</b>
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	1.0	1.0	1.0	<u>) 1.0</u>	1.0					
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Timer Results				EBL		EBT	WB	L	WBT	NB	-	NBT	SBI	-	SBT
Assigned Phase	e			5		2	1		6	3		8	7	an an an an an an an an an an an an an a	4
Case Number		agy köjönnet ölön manna anna anna anna anna anna anna a	-	1.1		3.0	1.1		4.0	1.1		4.0	1.1	,	4.0
Phase Duration	ALANT/ALTHANALATINA	-		18.2	weetoward disseries	43.8	5.3 4.0		30.9 4.0	5.0 4.0		38.1 4.0	12.7 4.0		45.9 4.0
Change Period				4.0 3.1		<u>4.0</u> 0.0	4.0		4.0 0.0	4.0		3.1	3.1		3.1
Max Allow Hea	Contraction of the second second second second second second second second second second second second second s	noverse set spin a distant of the set of the set of the set of the set of the set of the set of the set of the		13.6		0.0	2.5		U.U	2.3		27.3	8.5	2007997998999999999999999999999999999999	29.8
Queue Clearan				0.6		0.0	0.0		0.0	0.0		6.8	0.3		7.6
Green Extension	and the second by the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	<i>(ye),</i> s		1.00		0.0	0.0	and an individual states of	0.0	0.0		1.00	1.00	TRACT COMPANY CONSTRUCTION	1.00
Max Out Proba	an an an an an an an an an an an an an a			0.00			0.20			0.00		0.35	0.01	second and second and second and second and second and second and second and second and second and second and s	0.23
Wax Out Floba	omty			0.00			1 0.00	·		1 0.00	<u>'</u>	0.00	N 0.0		0.20
Movement Gro	oup Res	ults		l di teteri e si	EB	· · · · · · · · · · · ·		WE	3	1	NB		1	SB	
Approach Move	***			L	Т	R	L	Т	R	L	Т	R	L	Т	R
Assigned Move		an an an an an an an an an an an an an a		5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow	Rate (v)	, veh/h		351	1796	11	11	402	2 215	8	1039	499	207	618	600
CONTRACTOR OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	w Rate (s), veh/h/ln		1723	1723	1610	1723	181	0 1533	1723	1810	1740	1723	1810	1755
Queue Service	Time (g	1s), S		11.6	39.8	0.3	0.5	8.4	11.1	0.3	25.3	25.3	6.5	27.7	27.8
Cycle Queue C	learance	e Time <i>(g₀</i> ), s		11.6	39.8	0.3	0.5	8.4	11.1	0.3	25.3	25.3	6.5	27.7	27.8
Capacity (c), ve	eh/h			440	1372	641	100	975	5 413	151	1236	594	251	759	736
Volume-to-Cap	acity Ra	ntio <i>(X)</i>		0.798	1.309	0.017	0.109	0.41	2 0.521	0.050	0.841	0.841	0.822	0.815	0.816
Available Capa	city <i>(c₀</i> ),	, veh/h		629	1372	641	510	975	5 413	410	1566	753	376	924	896
	Contraction of the second second second second second second second second second second second second second s	n/In (95th percentile)		7.3	60.2	markanonementeristikkide	0.3	6.4		0.2	14.8	15.0	4.7	15.2	14.9
Overflow Queu	THE REPORT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	Notare and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Children & Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Spring of the Sprin	CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF	RQ) (95th percentile	)	0.96	0.00	0.00	0.04	0.0	Construction of the second second	0.03	0.00	0.00	0.61	0.00	0.00
Uniform Delay	(d1), s/v	eh		17.0	23.5		29.0	26.1	and the second second second second second second second second second second second second second second second	23.1	24.8	24.8	21.1	18.9	18.9
Incremental De	lay (d2),	s/veh		2.9	144.3	3 0.0	0.2	1.3		0.1	2.8	5.6	5.3	3.9	4.1
Initial Queue D	******	and a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (				20.0	167.7	/ 14.2	29.2	27.4	nen market and a second second second second second second second second second second second second second se	23.2	27.7	30.5	26.3	22.8	23.0
Level of Service				В	F	B	C	C C	C	C	C	<u> </u>	C	<u> </u>	С
Approach Dela	historia			142.9	9	F	28.8	3	С	28.5	;	С	23.4		C
Intersection De	lay, s/ve	eh/LOS				7(	).2	544 A.					E		
							H			li			N	-	
Multimodal Re	New York Contraction of the local data				EB	~		WE			NB	~		SB	
Pedestrian LOS				2.9		<u>C</u>	3.2	112002200200200200	C	3.0		C	3.3	Contraction Containing of the	<u>C</u>
Bicycle LOS So	ore / LC	15		2.3	<b>_</b> _	В	0.8		Α	1.3		A	1.7		A

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	HCS 2	010 S	ignal	ized	Inters	ectio	n Re	sults	Summ	nary				
										1. A. A. A.		1. A. A.		
General Information								Interse	ction In	formati	on		1 2 3 3 1 1	
Agency	TASK Engineering					100170100007010000000000000000000000000		Duratic	n, h	0.25				
Analyst	Ken Howell	1000000-117-000-10-118-00-10-117-00-	Analy	sis Da	ite Dec	07700000000000000000000000000000000000	2	Area T	уре	Othe	r			
Jurisdiction	City of Phoenix		Time	Perioc	1 AM F	°k Hr	100-biblem\mailee	PHF		0.92			¥ ₩ <del>7</del> E 8	
Intersection	Van Buren St/59th	Avenue	Analy	sis Ye	ar 2023	15		Analys	s Period	1> 7:	00			
File Name	VB59 AM .xus			Manufitanian										
Project Description	2015 Build		Nor (Service State Sector)	totomore in surveyor								7	ER DE SE SE	8.3.
				i z d				_						
Demand Information	· · ·			EE	and the second second second second second second second second second second second second second second second			/B		NB			SB	
Approach Movement			L	T	R			r R	Martin Constantion Constantion	T	R		T	R
Demand (v), veh/h	· · · · · · · · · · · · · · · · · · ·		145	115	56 58	28	1	91 53	37	535	108	305	531	151
Signal Information			1	1	<u> </u>	<u> </u>	- 1	<u> </u>	1 1 11					
Cycle, s 100.0	Reference Phase	2			23		È.	6				x	5	
Offset, s 0	Reference Point	Z End			Ś			<u>}</u>		17		2	],	•
Uncoordinated No	Simult. Gap E/W	On	Green		0.2	38.4						A	l	
Force Mode Fixed	Simult. Gap N/S	On	Yellow Red	1.0	<u>3.0</u> 1.0	3.0	3. 1.	With Matchild of American						Y
TOICe Mode TTIXed			neu	11.0	11.0	11.0	1 1.1	<u> </u>	<u>, 13.0</u>				1	
Timer Results			EB	I I	EBT	WE	1	WBT		i I	NBT	SB		SBT
Assigned Phase			5		2			6	3	· <b>_</b>	8	7		4
Case Number			1.1		4.0	1.1		4.0	1.1		4.0	1.1		3.0
Phase Duration, s	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		11.		46.6	6.9		42.4	7.4		27.8	18.	an an an an an an an an an an an an an a	39.2
Change Period, (Y+Rc)	l e		4.0		4.0	4.0		4.0	4.(		4.0	4.0		4.0
Max Allow Headway (A			3.1		0.0	3.1		0.0	3.1		3.1	3.1		3.1
Queue Clearance Time			6.9		0.0	3.1		0.0	3.7		20.5	14.2	<u>,                                     </u>	13.5
Green Extension Time	West with the second second second second second second second second second second second second second second		0.3		0.0	0.0	****	0.0	0.0		3.3	0.5	INTERNA CONTRACTOR	3.3
Phase Call Probability	(90) 0	****	0.99		0.0	0.5	****	0.0	0.6		1.00	1.00		1.00
Max Out Probability			0.00			0.0		Walay and a second second second second second second second second second second second second second second s	0.0		0.00	0.00	annessan ann anna an an an an an an an an an a	0.00
······································		-	1			H 010	• J		N 010	- I		H 0.04		0.00
Movement Group Res	sults			EB			WE	3	1	NB	27		SB	
Approach Movement			L	[ т	R	L	Т	R	L	Т	R	L	Т	R
Assigned Movement			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow Rate (v)	, veh/h		158	665	655	30	179	86	40	359	340	332	577	164
Adjusted Saturation Flo	ow Rate <i>(s</i> ), veh/h/in		1723	1810	)   1779	1723	181	0 1615	1723	1810	1704	1723	1723	1610
Queue Service Time (g			4.9	31.1	31.2	1.1	2.6	2.8	1.7	18.4	18.5	12.2	11.5	6.3
Cycle Queue Clearanc	e Time <i>(g₀)</i> , s		4.9	31.1	31.2	1.1	2.6	2.8	1.7	18.4	18.5	12.2	11.5	6.3
Capacity (c), veh/h			578	771	758	167	138	9 620	295	431	406	364	1212	566
Volume-to-Capacity Ra	atio (X)		0.273	0.86	2 0.864	0.182	0.12	9 0.139	0.137	0.833	0.837	0.911	0.476	0.290
Available Capacity (ca)	, veh/h		1136	771	758	798	138	9 620	685	856	806	558	2020	944
Back of Queue (Q), ve	h/In (95th percentile)		3.1	18.7	' 18.6	0.7	1.9	1.9	1.3	11.9	11.4	8.8	7.4	4.0
Overflow Queue (Q3), v	a na na na na na na na na na na na na na		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	. 0.0	0.0	0.0	0.0
Queue Storage Ratio (	an an an an an an an an an an an an an a	)	0.41	0.00	0.00	0.10	0.00	0.00 0	0.16	0.00	0.00	0.92	0.00	0.00
Uniform Delay (d1), s/v	eh		13.0	19.1	19.1	21.3	15.	7 15.7	26.8	32.3	32.3	20.9	20.3	18.9
Incremental Delay (d2),	, s/veh		0.1	12.2	12.5	0.2	0.2	0.5	0.1	1.6	1.8	10.2	0.1	0.1
Initial Queue Delay (da			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/vel		]	13.1	31.3	31.6	21.5	15.9	) 16.2	26.9	33.9	34.1	31.1	20.4	19.0
Level of Service (LOS)		]	В	C	C	C	B	В	C	C	С	C	С	В
Approach Delay, s/veh	/LOS		29.5	i [	С	16.	5 [	В	33.	3	C	23.5		С
Intersection Delay, s/ve	eh / LOS				2	7.5	CONTRACTOR OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF			Antoniativa		С		
Multimodal Results			·· ·	EB		<u> </u>	WE		Į	NB			SB	
Pedestrian LOS Score	and so in the second second second second second second second second second second second second second second		2.8		С	2.9		С	3.0		С	3.2		C
Bicycle LOS Score / LO	DS		1.7		Α	0.7		Α	1.1		A	1.4		A

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		HCS 2	010 S	ignali	zed	Inters	ectior	ı Res	sults S	Summ	ary				
	1963 (M) -			a. 4. 4. 1											
General Informatio	on								Intersec	tion Inf	ormati	on	୍ <u>ଞ</u>	<u> </u>	
Agency	ľ	TASK Engineering			-				Duration	, h	0.25				
Analyst		Ken Howell		Analys	sis Dat	e Dec 2	8, 2012		Area Ty	be	Othe	r			
Jurisdiction		City of Phoenix		Time I	^o eriod	PM P	k Hr		PHF		0.92		- A -	vi÷E S	
Intersection	ľ	Van Buren St/59th	Avenue	Analys	sis Yea	ar 2020	IS		Analysis	Period	1> 7:	00	Dist		÷ F
File Name	ľ	VB59 PM .xus													
Project Description		2015 Build											ā	8 I B A	2 K
Demand Information	and the second second				EB			WE			NB			SB	
Approach Movemer	nt			L	T	R		T	R		T	R		T	R
Demand (v), veh/h				201	207	22	97	934	4 294	57	691	42	74	521	138
Signal Information	<u></u>			r	1	- 1			- 1 111	1 115					-
Cycle, s 100		Reference Phase	2	÷				H ،	5  2W				2	5	人
Offset, s 0		Reference Point	_∠ End	-		rs.	F.	· ·			17		$\mathbf{A}$	- <b>]</b> .	· ·
Uncoordinated No	L	Simult. Gap E/W	On	Green		3.4	44.5	4.1	0.8	26.1			<u>a</u>		
A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL PROPERTY AND A REAL		and the second second second second second second second second second second second second second second second		Yellow Rod	1.0	0.0	3.0	3.0		3.0			Y	<u>Ъ</u>	Y
Force Mode Fix	ea l	Simult. Gap N/S	On	Red	<u>11.0</u>	10.0	1.0	_[1.0		1.0					<u> </u>
Timer Results				EBI	- 1	EBT	WB	, ]	WBT	NB		NBT	SB	1	SBT
Assigned Phase				5		2	1		6	3		8	7		4
Case Number	an antitestation			1.1		4.0	1.1		4.0	1.1	emmuna jamuuni	4.0	1.1		3.0
Phase Duration, s				12.6		51.9	9.2		48.5	8.1		30.1	8.9		30.8
Change Period, (Y+	-D.\		******	4.0		4.0	4.0		4.0	4.0	ardenstearrestsempoissen	4.0	4.0		4.0
Max Allow Headway	****			3.1		0.0	3.1		0.0	3.1		3.1	3.1		3.1
Queue Clearance T	adaption of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	MINTER AND A STORE AND A STORE AND A STORE AND A STORE AND A STORE AND A STORE AND A STORE AND A STORE AND A ST		8.2		0.0	5.3			4.6	HEARING PROTOCOLO	22.6	5.3	MANSON DECISION OF THE OWNER	15.5
Green Extension Ti	OX STREET, MILLION			0.2		0.0	0.2		0.0	0.1		3.4	0.1	and the second second	3.5
Phase Call Probabil	With the state of the state	<i>ye)</i> , s	00000411001000000000000000000000000000	1.00		0.0	0.95		0.0	0.82		1.00	0.89		1.00
Max Out Probability	THOUGHT COURT			0.00			0.00			0.00		0.00	0.00		0.00
max out i robability	Section 3			0.00			u 0.00			H 0.00	· I	0.00		·	0.00
Movement Group	Resi	ults			EB	- television		WB	1121111	1	NB		1	SB	
Approach Movemer	nt			L	Т	R	L	T	R	L	Т	R	L	Т	R
Assigned Movemen	nt			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow Rate	: (v),	veh/h		218	125	123	105	928	407	62	402	394	80	566	150
Adjusted Saturation	Flo	w Rate (s), veh/h/ln	nicentrikenteksteriet	1723	1810	1749	1723	1810	1585	1723	1810	1773	1723	1723	1610
Queue Service Time	e <i>(g</i> s	), s		6.2	2.8	2.8	3.3	15.9	15.9	2.6	20.6	20.6	3.3	13.5	6.8
Cycle Queue Cleara	ance	Time <i>(g₀</i> ), s		6.2	2.8	2.8	3.3	15.9	15.9	2.6	20.6	20.6	3.3	13.5	6.8
Capacity (c), veh/h				333	866	837	647	1609	705	237	472	462	192	925	432
Volume-to-Capacity	Rat	io (X)		0.655	0.145	0.148	0.163	0.577	0.577	0.261	0.853	0.853	0.419	0.612	0.347
Available Capacity (	(Ca),	veh/h		996	866	837	1369	1609	705	615	1034	1013	556	1995	932
Back of Queue (Q),	veh	/In (95th percentile)		3.9	2.0	2.0	2.2	9.3	8.9	1.9	12.9	12.7	2.4	8.7	4.5
Overflow Queue (Q	3), Ve	əh/in		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Storage Rati	io (R	Q) (95th percentile	)	0.50	0.00	0.00	0.28	0.00	0.00	0.24	0.00	0.00	0.25	0.00	0.00
Uniform Delay (d1),	s/ve	h		14.3	9.9	9.9	13.3	14.5	14.6	25.8	30.8	30.8	26.6	27.8	25.7
Incremental Delay (	(d2), :	s/veh		0.8	0.4	0.4	0.0	1.5	3.4	0.2	1.7	1.8	0.5	0.2	0.2
Initial Queue Delay	(d3),	s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), si	/veh			15.1	10.3	10.3	13.3	16.1	18.0	26.0	32.6	32.6	27.1	28.1	25.9
Level of Service (LC	DS)		A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR O	В	В	В	В	В	В	C	С	C	C	С	C
Approach Delay, s/	veh /	LOS		12.6	i	В	16.4	¥ [	В	32.1		С	27.6	3	С
Intersection Delay,	s/vel	h/LOS				22	2.2						С		
Multimodal Result				· · · · · · · · ·	EB	1		WB			NB			SB	
Pedestrian LOS Sco	CONTRACTOR NO.			2.8		С	2.9		С	3.0		С	3.2		С
Bicycle LOS Score /		0		0.9		A	1.3	1	А	1.2		A	1.1	1	А

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General Information								Intersec	tion Inf	ormati	on		1 8 8 8 4	
Agency	TASK Engineering						1	Duration	, h	0.25	700-700-700-000-000-000-000-000-000-000		ጎ ር	
Analyst	Ken Howell		Analy	sis Dat	e Dec 2	28, 2012	2	Area Typ	; )e	Othe	٢	Dist.		
Jurisdiction	City of Phoenix	Historia (1975-1976) (1986) - State State (1986)	алааф <del>ан, на на на на</del>	Period				PHF		0.92			N W ² E	ጎ † ት ት
Intersection	Van Buren St/61st	Avenue	in ranned a magnetic street		anna para anna anna anna anna anna anna			Analysis	Period	1> 7:	00			+
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<b>Demand Information</b>		ne na na méri	1	EB	n an an an an an an an an an an an an an		WE	3		NB		T	SB	
Approach Movement			L	Т	R	L	ΙT	R	L	T	R	L	Т	R
Demand (v), veh/h		· · · · · · · · · · · · · · · · · · ·	9	1300	0 47	1	299	) 16	5	0	15	41	0	4
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Signal Information		a na serie de la composición de la composición de la composición de la composición de la composición de la comp		я	a		L (	, M		3				
Cycle, s 100.0	Reference Phase	2		۲ e	́₩		~ ~		6	r	<ul> <li>–</li> </ul>	$\mathbf{A}$		KDA -
Offset, s 0	Reference Point	End	Green	0.1	1.0	76.7	0.7	2.8	2.6			× I		
Uncoordinated No	Simult. Gap E/W	On	Yellow		0.0	3.0	3.0	0.0	3.0		<u>,                                    </u>	<b>2</b>	V I	<u></u>
Force Mode Fixed	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	0.0	1.0		10 (B	4	1.00	<u> </u>
							an ar san		10 - HE - SA					
Timer Results	10-11/00/100/100/100/100/100/100/100/100		EB		EBT	WB	L	WBT	NB		NBT	SB		SBT
Assigned Phase			5		2	1		6	3		8	7		4
Case Number			2.0		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration, s			5.2		81.7	4.1		80.7	4.7		6.6	7.6		9.4
Change Period, (Y+Ro)	, s		4.0		4.0	4.0		4.0	4.0		4.0	4.0		4.0
Max Allow Headway (M	/AH), s		3.1		0.0	3.1		0.0	3.1		3.4	3.1		3.4
Queue Clearance Time	e (gs), s		2.6			2.0			2.3		3.0	4.5	1	2.3
<b>Green Extension Time</b>	(ge), s		0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0
Phase Call Probability			0.24	1		0.03	3		0.14	ł	0.52	0.71		0.84
Max Out Probability			0.00	)		0.00	)		0.00	)	0.00	0.00	)	0.00
				e est						19. ye we				
<b>Movement Group Res</b>	sults			EB	-		WB	n na strange		NB			SB	
Approach Movement			L	T	R	L	T	R	L	Т	R	L	Т	R
Assigned Movement		·	5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow Rate (v)			10	735	729	1	229	113	5	16		45	4	
Adjusted Saturation Flo			1645	1810	1787	1723	1810	1761	1723	1533		1645	1464	1
Queue Service Time (g			0.6	0.0	0.0	0.0	0.0	0.0	0.3	1.0		2.5	0.3	
Cycle Queue Clearance	e Time <i>(g₀</i> ), s	· · · ·	0.6	0.0	0.0	0.0	0.0	0.0	0.3	1.0	<u> </u>	2.5	0.3	
Capacity (c), veh/h			20	1406		343	2775	1350	119	40		150	79	
Volume-to-Capacity Ra			0.499	0.523	0.525	0.003	0.083	0.084	0.046	0.412		0.296	0.055	
Available Capacity (ca)			1018	1406	1389	1407	2775	1350	383	743		355	751	
Back of Queue (Q), vel	n/In (95th percentile)		0.5	1.0	1.0	0.0	0.0	0.1	0.2	0.8		1.8	0.2	
Overflow Queue (Q3), v	/eh/ln		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Queue Storage Ratio (I		)	0.07	0.00	0.00	0.00	0.00	0.00	0.06	0.00		0.33	0.00	
Uniform Delay (d1), s/ve	eh		48.9	0.0	0.0	2.7	0.0	0.0	46.9	48.0		41.9	44.9	
Incremental Delay (d2),	s/veh		7.1	1.4	1.4	0.0	0.1	0.1	0.1	2.5		0.4	0.1	71.7 approximation and a second second
Initial Queue Delay (d3)	, s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	1
A	1		56.0	1.4	1.4	2.7	0.1	0.1	47.0	50.5		42.3	45.0	ĺ
Control Delay (d), s/vel				Α	А	A	Α	Α	D	D		D	D	1
Control Delay (d), s/vet Level of Service (LOS)			E		A	0.1		A	49.6	;	D	42.5		D
Control Delay (d), s/vel Level of Service (LOS) Approach Delay, s/veh	The second second to a second to a second second second second second second second second second second second		1.8											
Level of Service (LOS)	/LOS		1.8		3			ĺ				A		
Level of Service (LOS) Approach Delay, s/veh	/LOS		1.8	<b>I</b>	an analan ing kanang sa							A		
Level of Service (LOS) Approach Delay, s/veh	/LOS		1.8	EB	an analan ing kanang sa		WB			NB		A	SB	
Level of Service (LOS) Approach Delay, s/veh Intersection Delay, s/ve	/LOS bh/LOS		2.2	EB	an analan ing kanang sa			B	3.0	NB	С	A 	SB	С

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Analyst		Ken Howell	and the second second second	Analy	sis Dat	e Dec 2	28, 2012	2	Area	Тур	e	Othe	Γ			<u>ج</u>
Jurisdiction		City of Phoenix		- Annancamentaria	Period	PM P	'k Hr		PHF			0.92			vi ÷ s	††⊁ Inecesa
Intersection		Van Buren St/61st	Avenue	Analy	sis Yea	ar 20230	15		Analy	ysis	Period	1> 7:	00			×
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Demand (v), ve	h/h			3	279	10	41	1(	079	27	12	0	13	154	0	17
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Cycle, s	100.0	Reference Phase	2		1,			Ħ	2 6	245		States -		7	۲, I	
Offset, s	0	Reference Point	End				F		5		N.	17 <b>-</b>		<b>\$</b>		
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Force Mode		Simult. Gap N/S	anen formania ar henetarija	Yellov	/ <u>3.0</u> 11.0	0.0	3.0	3.		3.0	3.0			¥	7	
Force Mode	Fixed		On	Red	11.0	10.0	1.0	<u>   .</u>		<u>1.0</u>	1.0					
Timer Results				EB	1	EBT	WB	. 1	WB1	т I	NB	1	MDT			CDT
Assigned Phase	•			5		2		·1	6		3	-	NBT	SB		SBT
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Phase Call Pro				0.0			0.7				0.30		0.72			1.00
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Movement Gro	un Res	ults			EB		1	W	R	- 1		NB		1	SB	
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Queue Service	and the second second second second second second second second second second second second second second second			0.1	1.1	1.2	0.7	2.4	and the second second second second second second second second second second second second second second second	<u>8</u>	0.7	0.9		8.5	1.1	
Cycle Queue C				0.1	1.1	1.2	0.7	2.4		u ana ang ang ang ang ang ang ang ang ang	0.7	0.9		8.5	1.1	
Capacity (c), ve	AND DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DE	5 Timo (90), 0		364	1199	1185	804	251			147	55		281	185	
Volume-to-Cap	And and an and a second second second second second second second second second second second second second se	tin (X)		0.009	0.131	0.132	0.055	0.32	······		0.089	0.256		0.596	0.100	
Available Capa	Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contra			1324	1199	1185	1757	251			482	712		453	812	
		Vin (95th percentile)		0.0	0.8	0.8	0.3	1.2			0.6	0.6		6.0	0.7	
Overflow Queue				0.0	0.0	0.0	0.0	0.0			0.0	0.0		0.0	0.0	
		RQ) (95th percentile	)	0.00	0.00	0.00	0.04	0.0			0.0	0.00		0.0	0.00	
Uniform Delay (				5.5	2.0	2.0	3.6	1.2		a martin da antes da antes da antes da antes da antes da antes da antes da antes da antes da antes da antes da	45.4	46.9		31.9	38.6	
Incremental De	CONTRACTOR OF CONTRACTOR			0.0	0.2	0.2	0.0	0.3		STREET, STREET, STREET, ST	0.1	0.9		0.8	0.1	Colembratistica marcana second
Initial Queue De	настинародновити	ĸĸĸŦŦŦŦŦŦŦŦŦŦŦŦŢġĸŦġġĸŦŢĬĸĊĊĸĸŎĬĬŎŇŔĸŦŊĊĊŔġŊŊĊŎĊĸĸĊĸġĊĊŔĸġĸĸţŎŊĊĊĊŊŎŎĸŎĸŎĸĸĸŢŊġ	ini ann an an an an an an an an an an an an	0.0	0.2	0.2	0.0	0.0	A Distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the local distance of the loca	www.www.	0.0	0.0		0.0	0.1	Canada and and and and and and and and an
Control Delay (	1922/001/001/001/001/001/001/001/001/001/0			5.5	2.3	2.3	3.6	1.6	nindiac parantanan		0.0 45.5	47.8	aana ah aa ah ah ah ah ah ah ah ah ah ah ah	32.7	38.7	
Level of Service	Contractor and a second second second second second second second second second second second second second se	n 1997 (Alter diversity) (Alter diversity) and an and a stranger of the second second second second second second		0.0 A	A	2.3 A	3.0 A	A A	, I.	ennee waa	45.5 D	47.6 D		32.7 C	30.7 D	
Approach Delay		/105		2.3	$-\hat{1}$	A	1.8		A		46.7		D	33.3		C
Intersection Delay				<u> </u>	<u> </u>	an na mana ka mana ka mana ka mana ka ka ka ka ka ka ka ka ka ka ka ka ka	1.0 .8	<u> </u>	A		40.7	l		-	<u> </u>	$\rightarrow$
Intersection Del	ay, 5/ve			L		C	.0			I				A		
Multimodal Re	sulte				EB		1	WE	<b>२</b>			NB		1	SB	
Pedestrian LOS		/108		2.2		В	2.2		B		3.0	טיי 	С	3.2		С
Bicycle LOS Sc				0.7		A	1.2		A		0.5	****	International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contraction of the International Contractional	0.8		A
		···		0.7		<u> </u>	1.2	I_	A		0.0	<u> </u>	А	0.8	L	А

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	τw	O-WAY STOP	CONTRO	OL SI	JMMARY	******				
General Informatio	n	·····	Site Ir	nform	ation					
Analyst	kmh		Interse	ction		59th Ave	nue/Acces	s A		
Agency/Co.	TASK	· · · · · · · · · · · · · · · · · · ·	Jurisdi	ction		City of P	hoenix			
Date Performed	12/28/20		Analys	is Yea	r	2015				
Analysis Time Period	AM Pk Hi	*								
Project Description 20			<u> </u>							
East/West Street: Acce					Street: 59th	Avenue				
Intersection Orientation:			Study F	Period	(hrs): 0.25			······		
Vehicle Volumes a	n <mark>d Adjust</mark> me									
Major Street		Northbound				Southbou	und			
Movement	1	2 T	3		4	<u>5</u> T		6		
Votumo (voh/h)	L	728	R		L	1026		R 28		
Volume (veh/h) Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92		
Hourly Flow Rate, HFR										
(veh/h)	1	791	0		0	1115		30		
Percent Heavy Vehicles	5				0					
Median Type				Vay Le	ft Turn Lane					
RT Channelized			0					0		
Lanes	1	2	0		0	2		1		
Configuration	L	Т				T		R		
Upstream Signal		0				0				
Minor Street		Eastbound					Westbound 11 12			
Movement	7	8	9		10					
	L	Т	R		L	T		R		
Volume (veh/h)	<u> </u>	1.00	3 0.92		1.00	1.00		1.00		
Peak-Hour Factor, PHF Hourly Flow Rate, HFR								<u>7.00</u> 0		
(veh/h)	4	0	3		0	0	0			
Percent Heavy Vehicles	5	0	5		0	0		0		
Percent Grade (%)		0				0				
Flared Approach		N	1			N				
Storage		0				0				
RT Channelized			0					0		
Lanes	0	0	0		0	0		0		
Configuration		LR						······································		
Delay, Queue Length, a	and Level of Se	rvice								
Approach	Northbound	Southbound	٧	Vestbo	ound		Eastbound			
Movement	1	4	7	8	9	10	11	12		
Lane Configuration	L	· · · · ·	· · · · · ·				LR			
v (veh/h)	1						7	1		
C (m) (veh/h)	589	·					, 283			
v/c	0.00						0.02			
95% queue length	0.00						0.02	1		
Control Delay (s/veh)	11.1					·	18.0			
	B						18.0 C			
LOS										
Approach Delay (s/veh)						_	18.0			
Approach LOS						1	С			

	TW	O-WAY STOP	CONTRO	JL SI	JMMARY		******	gan handa ga kalan da ta badan da kanan d					
General Informatio	n		Site Ir	nform	ation								
Analyst	kmh		Interse	ction		59th Ave	nue/Access	s A					
Agency/Co.	TASK	· · · · , · · · · · · · · · · · · · · ·	Jurisdie	ction		City of Pl	hoenix						
Date Performed	12/28/20		Analys	is Yea	•	2015							
Analysis Time Period	PM Pk H	r											
Project Description 20													
East/West Street: Acce					treet: 59th A	venue							
Intersection Orientation:			Study F	Period (	(hrs): 0.25								
Vehicle Volumes a	nd Adjustme					A							
Major Street		Northbound			4	Southbou	<u>ind</u>	<u>^</u>					
Movement	1	2 T	3 R		4	5 T		6 R					
Volume (veh/h)	2	1184	n.		<u>ь</u>	733		10					
Peak-Hour Factor, PHF	0.92	0.92	0.92	····	1.00	0.92		0.92					
Hourly Flow Rate, HFR							<u>`</u>						
(veh/h)	2	1286	0		0	796		10					
Percent Heavy Vehicles	5				0								
Median Type				/ay Lel	t Turn Lane								
RT Channelized			0					0					
Lanes	1	2	0		0	2		1					
Configuration	L	T				Т		R					
Upstream Signal		0				0							
Minor Street		Eastbound				Westbou							
Movement	7		9		10	11		12					
		Ī	R		L	Т		R					
Volume (veh/h)	14	1.00	9		4.00	1 00		( 00					
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	1.00	0.92		1.00	1.00		1.00					
(veh/h)	15	0	9		0	0		0					
Percent Heavy Vehicles	5	0	5		0	0	1	0					
Percent Grade (%)		0				0							
Flared Approach		N			•	N							
Storage		0				0							
RT Channelized			0			1		0					
Lanes	0	0	0		0	0		0					
Configuration		LR											
Delay, Queue Length, a	and Level of Se	ervice			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	an an an an an an an an an an an an an a							
Approach	Northbound	Southbound	V	Vestbo	und		Eastbound						
Movement	1	4	7	8	9	10	11	12					
Lane Configuration	L.	· · ·		-			LR						
v (veh/h)	2					_	24						
C (m) (veh/h)	795						325	······					
V/c	0.00						0.07						
95% queue length	0.00					+	0.07						
	9.5												
Control Delay (s/veh)						-	17.0						
LOS	A						C	L					
Approach Delay (s/veh)		·				<u> </u>	17.0						
Approach LOS						1	С						
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General Informatio		O-WAI SIUP	CONTR	0L 3U	IMMARY			
	n		Site I	nform	ation			
Analyst	kmh		Interse	ection		59th Ave	nue/Acce	ss Å
Agency/Co.	TASK		Jurisd	ction		City of Pl		
Date Performed	12/28/20		Analys	sis Year		2015		
Analysis Time Period	AM Pk H	r						
	015 Build							
East/West Street: Acce					treet: 59th A	Avenue		
ntersection Orientation:			Study I	Period (	hrs): 0.25			
Vehicle Volumes ar	nd Adjustme							
Major Street		Northbound				Southbou	und	-
Movement	1	2	3		4	5		6
(olumo (voh/h)		T 730	R		L	T		R
Volume (veh/h) Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	<u>996</u> 0.92		33 0.92
Hourly Flow Rate, HFR								
(veh/h)	0	793	0		0	1082		35
Percent Heavy Vehicles	5				0			
Median Type			Two V	Vay Left	Turn Lane			
RT Channelized			0					0
anes	0	2	0		0	2		1
Configuration		Т				Т		R
Jpstream Signal		0				0	<u> </u>	
Vinor Street		Eastbound				Westbou	nd	
Movement	7	8	9		10	11		12
	L	Т	R		L	· T		R
/olume (veh/h)			1					
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00
Hourly Flow Rate, HFR [veh/h]	0	0	1		0	0		0
Percent Heavy Vehicles	5	0	5		0	0		0
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		
RT Channelized			0					0
₋anes	0	0	1		0	0		0
Configuration			R					
Delay, Queue Length, a	and Level of Se	rvice						
Approach	Northbound	Southbound	1	Vestbou	und	E	Eastboun	d
Novement	1	4	7	8	9	10	11	12
ane Configuration				-				R
/ (veh/h)								1
C (m) (veh/h)								531
								0.00
		· · · · · · · · · · · · · · · · · · ·						0.00
5% queue length								11.8
95% queue length								11.0
Control Delay (s/veh)								~
Control Delay (s/veh)								В
Control Delay (s/veh)				·····			11.8 B	B

	٦٢	NO-WAY STO	P CONT	ROL S	SUMI	MARY			
General Informatio	n		Site	Infor	mati	on			
Analyst	kmh			ection			59th Ave	nue/Acce	ss 🖌
Agency/Co.	TASK			liction			City of P		
Date Performed	12/28/2	012	Analy	sis Ye	ear		2015		
Analysis Time Period	PM Pk	Hr				· · · ·			
	015 Build								
East/West Street: Acco						et: 59th A	venue		
Intersection Orientation:			Study	Perio	d (hrs)	): 0.25			
Vehicle Volumes a	<u>nd Adjustr</u>								
Major Street		Northboun					Southbo	und	
Movement	1	2	3			4	5		6
(aluman (underle)		T	R			L	T		R
Volume (veh/h) Peak-Hour Factor, PHF	0.92	<u> </u>	0.9	2	-	1.00	731		<u>11</u> 0.92
Hourly Flow Rate, HFR				<u> </u>	_				
(veh/h)	0	1288	0			0	794		11
Percent Heavy Vehicles	5					0			
Median Type			Two	Way L	.eft Tu	rn Lane			
RT Channelized			0						0
Lanes	0	2	0			0	2		1
Configuration		Т					T		R
Upstream Signal		0					0		
Minor Street		Eastbound	the second second second second second second second second second second second second second second second se				Westbou	ind	
Movement	7	8	9			10	11		12
	L	Т		R		L	Т		R
Volume (veh/h)			2						
Peak-Hour Factor, PHF	0.92	1.00	0.9	2		1.00	1.00		1.00
Hourly Flow Rate, HFR (veh/h)	0	0	2			0	0		0
Percent Heavy Vehicles	5	0	5			0	0		0
Percent Grade (%)		0					0		
Flared Approach		N					N		
Storage		0					0		
RT Channelized			0						0
Lanes	0	0	1			0	0		0
Configuration			<i>R</i>						
Delay, Queue Length, a									
Approach	Northbound	Southbound		Westh	oound			Eastboun	d
Movement	1	4	7	8	8	9	10	11	12
Lane Configuration									R
v (veh/h)									2
C (m) (veh/h)							1		642
v/c									0.00
95% queue length			1				1		0.01
Control Delay (s/veh)									10.6
LOS				<b>†</b>					B
Approach Delay (s/veh)				I	ľ		1	10.6	
Approach LOS								B	
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	τw	O-WAY STOP	P CONTR	OL SI	UMMARY				
General Informatio	n		Site I	nform	ation				
Analyst	kmh		Inters	ection		Van Bur	ən Str	eet/Ac	cess C
Agency/Co.	TASK		Jurisd	iction		City of P	hoenix	x	
Date Performed	12/28/20		Analy	sis Yea	٢	2015			
Analysis Time Period	AM Pk H	r							
Project Description 20	015 Build					• •	· ·		
East/West Street: Van		·····			Street: Acce	ss C			
Intersection Orientation:	East-West		Study	Period	(hrs): 0.25				
Vehicle Volumes a	nd Adjustme								
Major Street		Eastbound				Westbo	und		
Movement	1	2	3		4	5			6
	L	T 1054	R			T			R
Volume (veh/h) Peak-Hour Factor, PHF	0.92	<u>1354</u> 0.92	0.92	<u>,                                     </u>	1.00	375			24
Hourly Flow Rate, HFR	1								.92
(veh/h)	0	1471	0		0	407			26
Percent Heavy Vehicles	5				0				
Median Type			Two I	Nay Le	ft Turn Lane				
RT Channelized			0						0
Lanes	0	2	0		0	2			1
Configuration		<i>T</i>				<i>T</i>	R		
Upstream Signal		0				0			
Minor Street		Northbound	-			Southbo	und		
Movement	7	8	9		10	11			12
		Т	R		L	T			R
Volume (veh/h)									1
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	0.92	1.00	<u> </u>	1.00	0.92		0	.92
(veh/h)	0	0	0		0	0			1
Percent Heavy Vehicles	5	5	0		0	5			5
Percent Grade (%)		0		Ì		0			
Flared Approach		N				N			
Storage		0				0			
RT Channelized			0						0
Lanes	0	0	0		0	0			1
Configuration									R
Delay, Queue Length, a	and Level of Se	rvice							
Approach	Eastbound	Westbound		Northbo	ound		Southb	ound	
Movement	1	4	7	8	9	10		1	12
Lane Configuration	•	· · · · · · · · · · · · · · · · · · ·		Ť			+'	<u> </u>	R
v (veh/h)									1
C (m) (veh/h)									826
							+	·	0.00
95% queue length									0.00
· ·			[						
Control Delay (s/veh)									9.4
LOS							<u> </u>	<u> </u>	Α
Approach Delay (s/veh)							9.4		
Approach LOS			A						
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	TN	O-WAY STOP	CONTR	OL SUN	IMARY			
General Informatio	n		Site I	nformat	ion			
Analyst	kmh		Interse	ection		Van Bure	n Street/A	ccess C
Agency/Co.	TASK	· · · · · · · · · · · · · · · · · · ·	Jurisdi			City of P		
Date Performed	12/28/20		Analys	is Year		2015		
Analysis Time Period	PM Pk H	r		***				
Project Description 20	015 Build							
East/West Street: Van					et: Access	C		
Intersection Orientation:	East-West		Study F	Period (hr	s): 0.25			
Vehicle Volumes a	nd Adjustme							
Major Street		Eastbound				Westbou	Ind	
Movement	1	2	3		4	5		6
) (aluma (uah/h)		T (08	R		<u> </u>	T		R
Volume (veh/h) Peak-Hour Factor, PHF	0.92	408	0.92		1.00	<u>1140</u> 0.92		9 0.92
Hourly Flow Rate, HFR						0.92		
(veh/h)	0	443	0		0	1239		9
Percent Heavy Vehicles	5		-		0			
Median Type			Two V	Vay Left T	Turn Lane			
RT Channelized			0			-		0
Lanes	0	2	0		0	2		1
Configuration		Ť				T		R
Upstream Signal		0				0		
Minor Street		Northbound				Southbou	und	
Movement	7	8	9		10	11		12
		Т	R		L	T		R
Volume (veh/h)								4
Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0		0	0		4
Percent Heavy Vehicles	5	5	0		0	5		5
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		
RT Channelized			0					0
Lanes	0	0	0		0	0		1
Configuration								R
Delay, Queue Length, a	and Level of Se	rvice	<u>.</u>					
Approach	Eastbound	Westbound	N	lorthboun	d	s	outhboun	d
Movement	1	4	7	8	9	10	11	12
Lane Configuration	·····							R
v (veh/h)					1			4
C (m) (veh/h)								478
v/c						1		0.01
95% queue length					1			0.03
Control Delay (s/veh)					1	<del> </del>		12.6
LOS					_			B
Approach Delay (s/veh)							12.6	
Approach LOS								
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	TW	O-WAY STOP	CONTR	OL SU	MMARY			
General Informatio	n		Site I	nforma	tion			
Analyst	kmh		Interse	ection		Van Bure	n Street	/Access E
Agency/Co.	TASK		Jurisd	iction		City of P	hoenix	
Date Performed	12/28/20	12	Analys	sis Year		2015		
Analysis Time Period	AM Pk H	r						
Project Description 20								
East/West Street: Van					eet: Access	з <i>Е</i>		
Intersection Orientation:	East-West		Study	Period (h	rs): 0.25			
Vehicle Volumes a	nd Adjustme							
Major Street		Eastbound	,			Westbou	Ind	
Movement	1	2	3		4	5		6
\ {_} \		T (050	R		L	T		R
Volume (veh/h)	0.00	1352			4.00	273		52
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	0.92	0.92	, 	1.00	0.92		0.92
(veh/h)	0	1469	0		0	296		56
Percent Heavy Vehicles	5				0			•••
Median Type			Two I	Vay Left	Turn Lane			
RT Channelized			0					0
Lanes	0	2	0		0	2		1
Configuration		Т				T		R
Upstream Signal		0				0		
Minor Street		Northbound				Southbou	und	
Movement	7	8	9		10	11		12
	L	Т	R		L	T		R
Volume (veh/h)								3
Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0		0	0		3
Percent Heavy Vehicles	5	5	0		0	5		5
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		•
RT Channelized			0					0
Lanes	0	0	0		0	0		1
Configuration								R
Delay, Queue Length, a	and Level of Se	rvice						
Approach	Eastbound	Westbound		Vorthbou	nd	5	outhbou	ind
Movement	· 1	4	7	8	9	10	11	12
Lane Configuration	-							R
v (veh/h)								3
C (m) (veh/h)				······		1		888
v/c	· · · · · · · · · · · · · · · · · · ·	· · ·			+	1		0.00
95% queue length		· · · · · · · · · · · · · · · · · · ·						0.00
Control Delay (s/veh)	· · ·					+		
								9.1
LOS				L	<u> </u>	<u> </u>		A
		·	E			1	01	
Approach Delay (s/veh) Approach LOS				.,			<u>9.1</u> A	

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General Information Analyst Agency/Co.	1							
			Site In	format	ion			
Agency/Co	kmh		Interse	ction	·····	Van Bure	n Street/	Access E
	TASK		Jurisdic	ction		City of P	hoenix	
Date Performed	12/28/20		Analysi	s Year		2015		
Analysis Time Period	PM Pk Hi	r						
	15 Build							
East/West Street: Van E					et: Access	E		
Intersection Orientation:			Study P	eriod (hre	s): 0.25			
Vehicle Volumes an	<u>id Adjustme</u>							
Major Street		Eastbound				Westbou	Ind	
Movement	1	2 T	3		4	5		6
Volume (veh/h)		291	R		L	1034		R 17
Peak-Hour Factor, PHF	0.92	0.92	0.92		1.00	0.92		0.92
Hourly Flow Rate, HFR								
(veh/h)	0	316	0		0	1123		18
Percent Heavy Vehicles	5				0			
Median Type				/ay Left T	urn Lane			
RT Channelized			0					0
Lanes	0	2	0					1
Configuration		<u> </u>				Т	R	
Upstream Signal		0				0		
Minor Street	_	Northbound				Southbou	und	
Movement	7	8	9		10	11		12
	L	Т	R		<u> </u>	<u>  т</u>		R
Volume (veh/h)	<u> </u>				4.00			13
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	0.92	1.00		1.00	0.92		0.92
(veh/h)	0	0	0		0	0		14
Percent Heavy Vehicles	5	5	0		0	5		5
Percent Grade (%)		0				0	I	
Flared Approach		N				N		
Storage	1	0				0		
RT Channelized	·····		0					0
Lanes	0	0	0		0	0		1
Configuration						1		R
Delay, Queue Length, ar	nd Level of Se	rvice	<b></b>	<b>/</b>		• •		
Approach	Eastbound	Westbound	N	orthboun	d	s s	outhbour	nd
Movement	1	4	7	8	9	10	11	12
Lane Configuration				-		<u>_</u>		R
v (veh/h)					-			14
C (m) (veh/h)								516
v/c								0.03
								0.03
95% queue length								12.2
· · ·	1 1				1		F	12.2
95% queue length Control Delay (s/veh)				· · · · · · · · · · · ·				
Control Delay (s/veh) LOS							40.0	В
Control Delay (s/veh)							12.2 B	

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	T۷	O-WAY STO		OL SI	JMMARY				
General Informatio	n	· · · · · · · · · · · · · · · · · · ·	Site	Inform	ation				
Analyst	kmh			ection		Van Bur	en Street	/Access F	
Agency/Co.	TASK			liction		City of F			
Date Performed	12/28/20	12	Analy	sis Yea	A	2015			
Analysis Time Period	AM Pk H	lr							
Project Description 2	015 Build							·····	
East/West Street: Van					treet: Acce	ss F			
Intersection Orientation:			Study	Period (	(hrs): 0.25				
Vehicle Volumes a	nd Adjustme								
Major Street		Eastbound				Westbo	und		
Movement		2	3		4	5		6	
	L	T	R		L	T		R	
Volume (veh/h) Peak-Hour Factor, PHF	12	1339	48		5	243		28	
Hourly Flow Rate, HFR	0.92	0.92	0.92		0.92	0.92		0.92	
(veh/h)	13	1455	52		5	264		30	
Percent Heavy Vehicles	5				5				
Median Type					't Turn Lane				
RT Channelized			0					0	
Lanes	1	2	0		1	2		1	
Configuration	L	T	TR		L	T		R	
Upstream Signal		0				0			
Minor Street		Northbound				Southbo	und		
Movement	7	8	9		10	11		12	
	L	T	R		L	Т		R	
Volume (veh/h)	6	0	14		7	0		4	
Peak-Hour Factor, PHF	0.92	0.92	0.92	2	0.92	0.92		0.92	
Hourly Flow Rate, HFR (veh/h)	6	0	15		7	0		4	
Percent Heavy Vehicles	10	10	10		10	10		10	
Percent Grade (%)		0				0			
Flared Approach		N				N			
Storage		0				0			
RT Channelized			0					0	
Lanes	1	1	0		1	1		0	
Configuration	L		TR		L			TR	
Delay, Queue Length, a	and Level of Se	rvice							
Approach	Eastbound	Westbound	i	Northbo	und		Southbou	nd	
Movement	1	4	7	8	9	10	11	12	
Lane Configuration	L	L	L		TR	L		TR	
v (veh/h)	13	5	6		15	7		4	
C (m) (veh/h)	1243	426	102		387	265	1	891	
v/c	0.01	0.01	0.06		0.04	0.03	<u> </u>	0.00	
95% queue length	0.03	0.04	0.18		0.12	0.08		0.01	
Control Delay (s/veh)	7.9	13.6	42.5		14.7	19.0		9.1	
LOS	A	B	E		B	- 10.0 C	<u> </u>	- <u>3.7</u> A	
Approach Delay (s/veh)			hea	22.6		<u> </u>	15.4		
Approach LOS									
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	T۸	O-WAY STO	P CONTR		IMARY					
General Informatio	n		Site I	nformat	tion					
Analyst	kmh		Inters	ection		Van Bur	en Street	Access F		
Agency/Co.	TASK		Jurisd			City of P				
Date Performed	12/28/20		Analy	sis Year		2015				
Analysis Time Period	PM Pk H	r								
	015 Build									
East/West Street: Van					eet: Access	s F				
Intersection Orientation:			Study	Period (hr	s): 0.25					
Vehicle Volumes a	nd Adjustme									
Major Street		Eastbound				Westbo	Ind			
Movement	1	2	3		4	5		6		
Volume (veh/h)	L	T 270	R		<u> </u>	T (005		R		
Peak-Hour Factor, PHF	0.92	0.92	<u>10</u>	,	<u>41</u> 0.92	1095 0.92		9 0.92		
Hourly Flow Rate, HFR					0.92					
(veh/h)	4	293	10		44	1190		9		
Percent Heavy Vehicles	5				5					
Median Type			Two I	Nay Left T	<i>fum Lane</i>					
RT Channelized			0					0		
Lanes	1	2	0		1	2		1		
Configuration	L	Т	TR		L	T	T R			
Upstream Signal		0				0				
Minor Street		Northbound				Southbo	und			
Movement	7	8	9		10	11		12		
	L	Т	R		L	T		R		
Volume (veh/h)	12	0	12		28	0		17		
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	0.92	0.92		0.92	0.92		0.92		
(veh/h)	13	0	13		30	0		18		
Percent Heavy Vehicles	10	10	10		10	10		10		
Percent Grade (%)		0				0				
Flared Approach		N				N				
Storage		0				0		<del></del>		
RT Channelized			0					0		
Lanes	1	1	0		1	1		0		
Configuration	L		TR		L			TR		
Delay, Queue Length, a	and Level of Se	rvice			200			······································		
Approach	Eastbound	Westbound	1	Vorthboun	d	5	Southbour	nd		
Movement	1	4	7	8	9	10	11	12		
Lane Configuration	L	L	L		TR	L		TR		
v (veh/h)	4	44	13		13	30		18		
C (m) (veh/h)	561	1233	280		867	137		481		
v/c	0.01	0.04	0.05		0.01	0.22		0.04		
95% queue length	0.02	0.11	0.15		0.05	0.79		0.12		
Control Delay (s/veh)	11.5	8.0	18.5		9.2	38.5		12.8		
LOS	B	0.0	C		9.2 A	E 50.5		72.0 B		
Approach Delay (s/veh)				13.8			28.0			
Approach LOS							28.9			
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## **APPENDIX A**

2030 BUILD

		HCS 2	010 S	ianali	zed	In	terse	ection	Re	sul	lts S	umm	ary					
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General Inform	nation				9		<u> </u>			Inte	ersect	tion Inf	ormati	on		DAU	\$ (C )	<u>8 V</u>
Agency		TASK						an an an an third an ab Postan th		Dur	ration,	h	0.25					
Analyst		ken Howell		Analys	sis Da	ate	Dec 3	0, 2012		Are	a Typ	e	Othe	٢	4			
Jurisdiction		City of Phoenix		Time F	4.1A=#A#1##**#*#*	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	AM PH			PH	F		0.92	······································			₩ <u>+</u> €	5 A.
Intersection		59th Avenue NB		Analys	sis Ye	ear	2030		00-40-400-70	Ana	alysis	Period	1> 7:	00				
File Name		Van Buren South M	lountair			l						A decision of the second statements of the second						
Project Descrip	tion	2030 Build			//////////////////////////////////////	- <b></b>										<u>51 95 (†</u>	्राज्य विद्यो	8, 76;
						. 32										an she		
Demand Inform	nation			ĺ	E٤	B			٧	VB	////	1	NB	4			SB	g
Approach Move	ement			L	<u>  T</u>		R	L		Г	R	L	J T	R	L		Ţ	R
Demand (v), ve	h/h		•	57	103	34		I	10	03	124	61	1447	7 492				
				<u></u>	<u>,</u>						, 1	1	-	<u> </u>	<u> </u>		<u> </u>	
Signal Informa	AND COMPANY MANAGEMENT					₹ 	2									ĸ		
Cycle, s	110.0	Reference Phase	2		Þ		i →	S1	7		ł				<b>&gt;</b>			
Offset, s	110	Reference Point	End	Green			4.2	35.0	0.		0.0	0.0			A			<u> </u>
Uncoordinated	No	Simult. Gap E/W	On	Yellow			4.0	4.0	0.		0.0	0.0		∧				Ŷ
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0		1.0	1.0	0.	0	0.0	0.0			-			
Time - Decall				EBI	- T	- -	BT	WBI	1	<u>مر</u>	'BT	NB		NBT		<u>्</u> २।	Ì	SBT
Timer Results					-		2		-		ві ј 3		-	1971 8	<u>   31</u>			
the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	ssigned Phase						2		_	7.	-			9.0				
Case Number	and the second second second second second second second second second second second second second second second		n fransk af falle de le 1995 finsk	2.0 9.2			0.0							40.0	1			
Phase Duration				9.2 5.0		-	5.0		1		.0			5.0		Contract of Automatics		
Change Period,		And a second second second second second second second second second second second second second second second					0.0	1						3.1	1			
Max Allow Head				3.1 4.0		U	.0	1	-	0.0				37.0				
Queue Clearan				0.5		0.0				0.0				0.0				
Green Extensio Phase Call Prol		( <i>Ye)</i> , S		0.85		<u> </u>	0.0			υ.	.0			1.00				
Max Out Proba				1.00										1.00	1		-	
Wax Out I Toba	Dinty			1 1.00	, I								- <b>I</b>	1.00	R	e de	t North	
Movement Gro	up Res	ults		1	EE	3	]		W	B			NB		l		SB	
Approach Move	Contraction of the second second second			L	T	ļ	R	L	T		R	L	Т	R	L		T	R
Assigned Move	whether the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	an an an an an an an an an an an an an a		5	2				6	Ì	16	3	8	18				
Adjusted Flow I	Rate (v)	, veh/h		62	112	4	j		109	0	124	66	1573	470				
Adjusted Satura	ation Flo	w Rate (s), veh/h/ln		1673	164	3	}		164	3 1	1533	1673	1643	1533				
Queue Service	Time (g	/s), S		2.0	13.2	2			7.6	3	3.2	1.5	35.0	33.1				
Cycle Queue C	learance	e Time <i>(g₀</i> ), s		2.0	13.2	2			7.6	3	3.2	1.5	35.0	33.1				
Capacity (c), ve	h/h			129	291	3			333		777	1065	1568	488			we make and	
Volume-to-Cap	acity Ra	itio (X)		0.479	0.38	36			0.32		).159	0.062	1.003	0.962				
Available Capa	city <i>(c₀</i> ),	, veh/h		152	291	3			333	and the second second	777	1065	1568	488				alamatan disabia tarapaten
and a second second second second second second second second second second second second second second second		ı/ln (95th percentile)		1.5	8.0				4.4		2.0	1.1	23.8	22.8	<u> </u>	Ļ	<del></del>	
Overflow Queue				0.0	0.0				0.0	-	0.0	0.0	0.0	0.0				
Queue Storage	Ratio (I	RQ) (95th percentile	)	0.10	0.00				0.0	econ (seas	0.00	0.07	0.00	0.00	<u> </u>			
Uniform Delay	(dı), s/ve	əh		50.0	11.8				10.	and the second	9.3	26.1	37.5	36.9				
Incremental De	lay (d2),	s/veh		1.0	0.4				0.3		0.4	0.0	23.4	31.0	<u>  </u>			
Initial Queue Do	elay (d3)	, s/veh		0.0	0.0			page and the second second	0.0		0.0	0.0	0.0	0.0				understat an andra array
Control Delay (	ontrol Delay (d), s/veh			50.9	12.1	1			10.	3	9.8	26.1	60.9	67.9	1			
AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.	evel of Service (LOS)			D	B				B		<u>A</u>	С	F	Ε	<u> </u>			
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Intersection De	tersection Delay, s/veh / LOS					77. WALKS	35	5.2							D	a an an an an an an an an an an an an an		
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Capacity (c), veh/h		43	30				3654		986	1453	452	1		
Volume-to-Capacity Rat	iio (X)	0.253					0.476		0.079	0.903	0.491	<u> </u>		
Available Capacity (cs),		152	302		<u> </u>		3654		1065	1568	488		<b>†</b>	
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Incremental Delay (d2),		1.0	0.				0.4	0.3	0.0	7.0	0.3		<u> </u>	
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Adjusted Satura	ation Flo	w Rate <i>(s)</i> , veh/h/ln			1643	3 153	3	1673	1643		1				1723	1723	1533
Queue Service	Time (g	s), S			9.3	7.4	1	17.3	8.7	Γ	1				12.5	35.0	1.6
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Capacity (c), ve	h/h				2361	551	1	623	2913		1				548	1096	488
Volume-to-Capa	acity Ra	tio <i>(X)</i>			0.370	0.30	8	0.862	0.439		1				0.450	1.312	0.065
Available Capa	city (Ca),	veh/h			2361	551	í Ì	1065	2913	Ĩ	Î				548	1096	488
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Signal Informa	tion	· ·			I			<u>5</u>	612	5 [2]	5				I
Cycle, s	100.0	Reference Phase	2	2	2	é B		M			100000	<u>/_ </u> _	A	- <b>S</b>	♠
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Assigned Phase	е	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		5		2	1		6	3		8	7		4
Case Number						3.0	1.'	1	4.0	1.		4.0	1.1	İ	4.0
Phase Duration	se Duration, s					52.3	8.0	)	51.3	4.	7	31.0	8.7		35.0
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	nge Period, (Y+R₀), s Allow Headway (MAH), s			3.1	enterflatting United States and Annual	0.0	3.*	I İ	0.0	3.1	notation of the state of	3.1	3.1		3.1
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Movement Gro	up Res	ults			EB	<u> </u>	1	WE	3	1	NB		1	SB	
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Assigned Move	ment			5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F	Rate (v),	veh/h		108	1478	146	59	845	396	5	795	370	83	441	420
Adjusted Satura	ation Flo	w Rate <i>(s</i> ), veh/h/in		1723	1723	1610	1723	181	0   1693	1723	1810	1680	1723	1810	1724
Queue Service	Time (g	s), S		3.1	35.7	3.7	1.7	12.	5   12.6	0.2	19.9	20.0	3.1	21.2	21.2
Cycle Queue Cl	earance	e Time <i>(g₀</i> ), s		3.1	35.7	3.7	1.7	12.	5 12.6	0.2	19.9	20.0	3.1	21.2	21.2
Capacity (c), ve	h/h	Alexandrea (and a second time in the international of the Contract of Contract of Contract, South Second second		309	1663	777	179	171	0 800	145	978	454	186	561	534
Volume-to-Capa	acity Ra	tio (X)		0.348	0.889	0.187	0.328	0.49	4 0.494	0.037	0.813	0.816	0.445	0.786	0.786
Available Capac	city (Ca),	veh/h		848	1663	777	735	171	0 800	409	1712	795	381	928	884
Back of Queue	(Q), veh	/In (95th percentile)		2.0	17.3	2.4	1.2	7.7	7.7	0.2	12.3	11.8	2.2	12.8	12.3
Overflow Queue				0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
and an And Manager As A 1-1-1 and a sub-strategy and a strategy and the		RQ) (95th percentile)	) .	0.26	0.00	0.00	0.15	0.00	and an an an an an an an an an an an an an	0.02	0.00	0.00	0.29	0.00	0.00
Uniform Delay (	······································			12.6	15.6	9.9	19.5	12.1		27.6	29.7	29.7	24.1	26.4	26.5
Incremental Del				0.2	7.5	0.5	0.4	1.0		0.0	0.6	1.4	0.6	0.9	1.0
	ial Queue Delay ( <i>ds</i> ), s/ven			0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
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	el of Service (LOS)			В	С	В	В	В	В	C	С	C	C	C	C
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	section Delay, s/ven / LOS				<u> </u>		2.6			1	L		0 <u></u> C	<u> </u>	-
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Multimodal Res	sults		ł		EB		1	WE		1	NB			SB	
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Project Descrip	tion	2030 Build	<u></u>											a a ka a	<u>37 S</u>
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Offset, s	0	Reference Point	End	Green	4.4	2.2	38.9	2.5		32.			<u>K</u>		
Uncoordinated	No	Simult. Gap E/W	On	Yellow		0.0	3.0	3.0		3.0		<b>~</b>	<b>V</b>	<b>N</b>	
Force Mode	Float	Simult. Gap N/S	On	Red	1.0	0.0	1.0	1.0	0.0	1.0			÷		
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Timer Results		ana phase and the Article Art more a second many constant of the second second second second second second seco		EB 5	-	EBT	WB	L	WBT	NB	L.,	NBT	SBI		SBT
Assigned Phase	se Number					2	1		6	3		8	7		4
Case Number	se Number ase Duration, s					3.0	1.1		4.0	1.1		4.0	1.1		4.0
					<u>}</u>	45.1	8.4		42.9	6.5		36.5	10.0		40.0
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Queue Clearan				6.6			4.6			3.0		13.1	6.1		38.0
Green Extensio		<i>(g₀),</i> s		0.1		0.0	0.1		0.0	0.0		5.4	0.1		0.0
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the second second second second second second second second second second second second second second second s		w Rate (s), veh/h/ln		1723	1723		1723	1810		1723	1810	1670	1723	1810	1730
Queue Service				4.6	27.8		2.6	33.2		1.0	10.9	11.1	4.1	36.0	36.0
Cycle Queue C	the second second second second second second second second second second second second second second second s		<u></u>	4.6	27.8		2.6	33.2		1.0	10.9	11.1	4.1	36.0	36.0
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Volume-to-Cap	and the second second second second second second second second second second second second second second second	tio (X)		0.700	0.823	man management	0.371	0.92		0.203	0.470	0,478	0.370	1.041	1.047
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the second second second second second second second second second second second second second second second s	and the second second second second second second second second second second second second second second second	ven/n /In (95th percentile)		3.2	15.2		1.8	19.8	AND A DESTRUCTION OF A DESTRUCTION OF A DESTRUCTION OF A DESTRUCTION OF A DESTRUCTION OF A DESTRUCTION OF A DES	0.7	7.5	7.1	2.8	29.6	29.2
Overflow Queue		In the second second second second second second second second second second second second second second second		0.0	0.0	0.0	0.0	0.0	NOTE AND ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF ADDRESS OF AD	0.0	0.0	0.0	0.0	0.0	0.0
		RQ) (95th percentile	)	0.41	0.00		0.24	0.00		0.09	0.00	0.00	0.36	0.00	0.00
Uniform Delay (			/	22.5	19.6		20.5	22.7		26,2	22.2	22.2	18.3	26.0	26.0
a projekti da kana kana kana kana kana kana kana k	Contraction of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the loc		<b></b>	1.7	5.5	0.3	0.4	11.5		0.3	0.1	0.2	0.3	46.4	49.0
	cremental Delay <i>(d₂</i> ), s/veh tial Queue Delay <i>(d₃</i> ), s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
In succession of the second second second second second second second second second second second second second	ial Queue Delay (d3), s/ven htrol Delay (d), s/veh			24.2	25.1		20.9	34.2		26.5	22.3	22.5	18.6	72.4	75.0
And water and an an an an an an an an an an an an an	rel of Service (LOS)			<u>ст.с</u> С	C	B	C	C	D	<u> </u>	C	C	B	F	F
the second second second second second second second second second second second second second second second s	roach Delay, s/veh / LOS			24.5		C	36.7	The second second second	D	22.5		C C	69.2		E
Contraction of the local diversion of the local diversion of the local diversion of the local diversion of the	rsection Delay, s/veh / LOS			<u> </u>	<u></u>		9.9	<u> </u>	<b>مر</b> بر المرکز الم	<u> </u>	<u>́                                     </u>		D 03.2	<u> </u>	
mersection Del	ection Delay, s/veh / LOS				1 N. A.			i dage da s	an an an an	H					
Multimodal Re	sulte			1	EB		1	WB			NB	and the second		SB	
Pedestrian LOS		/108		2.9		С	3.2		С	2.9		С	3.3		С
Bicycle LOS Sc				1.6		A	1.6		A	0.9	and the second second second second second second second second second second second second second second second	Ā	1.7		A
	5157 EG			1 1.0	<u>i</u>	••	a			H 0.0		••	<u> </u>		

		HCS 2	010 S	ignal	ized	Inters	ectio	ו Re	sults	Sur	mma	ary				
											11					
General Inform	ation								Inters	ectio	n Info	ormatio	on		14,02,43,1	1.4
Agency		TASK Engineering							Duratio			0.25				
Analyst		Ken Howell		Analy	sis Da	te Dec 3	31, 2012	)	Area T			Other	•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<u>9</u>
Jurisdiction		City of Phoenix			Period				PHF	76-		0.92			W ¹ F	2 +
Intersection		Van Buren St/67th	Avenue						Analys	is Pe	riod	1> 7:0	00			+++++++++++++++++++++++++++++++++++++++
File Name		VB67 AM .xus		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1					[////////					- 2 <b> </b> -		
Project Descript	lon	2030 Build												- 1	1 N 10 FP 1	87
r Tojeci Descript				1. A. A.										1		
Demand Inforn	nation				EB		I	N	/B	T	Landar Carlos	NB			SB	
Approach Move				L	Т	R	Ĺ	1 1	T F		L	ΤT	R	L	Т	R
Demand (v), vel				73	959	AND AND AND AND AND AND AND AND AND AND	11	7.	12 18	8	5	891	146	158	659	8
				ų	l Salar									<u>n</u>		
Signal Informa	tion							5	ΓĮ	Ļ,	21.5					L
Cycle, s	100.0	Reference Phase	2			́Ľ₹			s		R)			↔		<b>V</b>
Offset, s	0	Reference Point	End	Greer		0.5	35.1	0.1	 7   2.	0	35.5					
Uncoordinated	No	Simult. Gap E/W	On	Yellov		3.0	3.0	3.0			3.0		~	$ \rightarrow  $	$\mathbf{V}$	K ZZ
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	1.0	1.0	1 (			1.0			<b>_</b>		Y
Timer Results				EB	L	EBT	WB	L	WBT	I	NBL	. ]	NBT	SB	L	SBT
Assigned Phase	)	an yan yan da ya kata kata kata kata kata kata kata		5	Í	2	1		6	Î	3		8	7	httiidenn fiching synochol	4
Case Number						4.0	1.1		4.0		1.1	1	4.0	1.1		4.0
Phase Duration	se Duration, s					43.6	5.4	alphilitic by dynal and a shore	39.1		4.7		39.5	11.6	3	46.3
	nge Period, (Y+ <i>R</i> c), s					4.0	4.0	)	4.0	Î	4.0		4.0	4.0		4.0
the second second second second second second second second second second second second second second second s	nge Period, (Y+ <i>Rc</i> ), s Allow Headway <i>(MAH</i> ), s				and a second second second second second second second second second second second second second second second	0.0	3.1		0.0	Ť	3.1		3.1	3.1		3.1
Queue Clearand	Contraction of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the loc			6.5	1		2.4	<u> </u>		1	2.2	Í	31.4	7.4		13.9
Green Extension	STATUTE STEAT DESTRICTION OF			0.1		0.0	0.0		0.0	Ť	0.0		4.1	0.3		4.1
Phase Call Prob				0.89		// A.1/ #1/ <b> A</b> A. #. // / / / /	0.28			Ĭ	0.14		1.00	0.99		1.00
Max Out Probat		<u></u>		0.00	5		0.00			T	0.00		0.01	0.00	)	0.00
							n.			4						
Movement Gro	up Res	ults			EB		1	WE	3			NB		1	SB	
Approach Move	ment			L	Т	R	L	Т	R		L	T	R	L	Т	R
Assigned Mover	nent			5	2	12	1	6	16		3	8	18	7	4	14
Adjusted Flow F	Rate (v)	, veh/h		79	531	528	12	674	304		5	578	550	172	363	362
Adjusted Satura	tion Flo	w Rate (s), veh/h/ln		1723	1810	1800	1723	181	0 161	1    1	723	1810	1720	1723	1810	1802
Queue Service	Time (g	s), s		4.5	22.8	22.8,	0.4	13.2	2 13.4		).2	29.3	29.4	5.4	11.9	11.9
Cycle Queue Cl	earance	e Time <i>(g₀</i> ), s		4.5	22.8	22.8	0.4	13.2	2 13.4		0.2	29.3	29.4	5.4	11.9	11.9
Capacity (c), vel	h/h			102	716	712	183	126	9 566	2	98	642	610	232	766	763
Volume-to-Capa	icity Ra	tio (X)		0.779	0.742	2 0.742	0.065	0.53	1 0.53	в 0.	018	0.900	0.901	0.740	0.474	0.474
Available Capac	city (Ca),	veh/h		620	716	712	778	126	9 566	9	076	1130	1074	515	1254	1249
Back of Queue	(Q), veh	n/In (95th percentile)	1	3.6	14.1	14.1	0.3	8.9	8.6		0.1	16.4	15.8	3.6	7.6	7.6
Overflow Queue	e (Q3), V	eh/in		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
and the second second second second second second second second second second second second second second second		RQ) (95th percentile	)	0.47	0.00	0.00	0.04	0.00	0.00	0	.02	0.00	0.00	0.47	0.00	0.00
Uniform Delay (				45.4	19.7	19.7	21.9	20.8	3 20.9	2	0.5	24.7	24.7	21.5	15.2	15.2
Incremental Del	A MARKET WATCHING TO THE OWNER.			4.8	6.8	6.9	0.1	1.6		un de la comunera	0.0	2.4	2.6	1.7	0.2	0.2
and the second second second second second second second second second second second second second second second	ial Queue Delay (d3), s/veh				0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0
the state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the	trol Delay (d), s/veh				26.5	26.5	22.0	22.4		2	0.5	27.1	27.3	23.3	15.3	15.3
Level of Service	Contrast of Contrast of Contrast			50,2 D	С	С	С	С	С		С	С	С	С	В	В
Approach Delay	Construction of the second second	/LOS		28.2		Ċ	23.0		C		27.2		C	16.9		В
Intersection Dela							1.2	L		Ť	 2012-2012-2014			C		
										и — И						1.365
Multimodal Res	sults				EB			WE	}			NB			SB	
Pedestrian LOS	CONTRACT STREET, ALLES	/LOS		2.8	Water Balling Street Street	С	2.8		С	T	2.9	ľ	С	3.2		С
Bicycle LOS Sco				1.4	********	A	1.0		A	Î	1.4	ĺ	A	1.2		A
					-		NT -									

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		HCS 2	010 S	ignal	ized	Inters	ectio	n Re	sults	Sumn	nary				
General Inform	nation								Interse	ction In	formati	on		र त्रा प्र स	T V
Agency		TASK Engineering						*****	Duratio	n, h	0.25				
Analyst		Ken Howell		Analy	sis Da	te Dec	31, 2012	2	Area T	/pe	Othe	r			2021
Jurisdiction		City of Phoenix		Time	Period	I PM F	^v k Hr	<u></u>	PHF		0.92			wije	2333
Intersection		Van Buren St/67th	Avenue	Analy	sis Ye	ar 2030			Analysi	s Period	1> 7	00			
File Name		VB67 PM .xus			te das F. Alban statistics (A. And					anan da karan da di karan da karda ana a kara karan da					
Project Descrip	tion	2030 Build						********	1, <del>231,11,17,21,17,17,17,17,17,17,17,17,17</del> ,17,17,17,17,17,17,17,17,17,17,17,17,17,					କ୍ଷା ପ୍ରାୟ ଶ	3.7
						-									
Demand Inform	nation				EE	3		٧	VB		NB			SB	
Approach Move	ement			L	Т	R	L		T R	L	Т	R	L	Т	R
Demand (v), ve	h/h			10	68	1 7	6	10	)62 20	8 5	808	5 127	196	845	181
	al ar a												<u></u>		
Signal Informa				ļ	R		245	e.	K.					ĸ	人
Cycle, s	100.0	Reference Phase	2			5			512				€		<b>~</b> ↓ ²
Offset, s	0	Reference Point	End	Green	45.7	0.7	4.4		3.2 0.0	0.0			<u>k</u>		
Uncoordinated	No	Simult. Gap E/W	On	Yellow	13.0	3.0	3.0	3.	0 0.0	0.0			7	<b>V</b>	
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	1.0	1.0	1.	0 0.0	0.0					
				<u> </u>			1				1		8	- 1 ⁻	
Timer Results				EB		EBT	WB		WBT	<u>NE</u>	Construction Survey and	NBT	SB		SBT
Assigned Phase	Э			<u> </u>		2	<u> </u>		6	3		8	7		4
Case Number	se Number ase Duration, s					6.0	<u> </u>		6.0	1.1	· · · · · · · · · · · · · · · · · · ·	4.0	1.1	-	4.0
						49.7	<u></u>		49.7	4.7		37.2	13.	STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET	45.6
Construction and the second second second second second second second second second second second second second	nge Period, (Y+R₀), s					4.0			4.0	4.(		4.0	4.0		4.0
	Allow Headway (MAH), s					0.0			0.0	3.1		3.1	3.1		3.1
Queue Clearan							<u> </u>			2.2		28.0	8.8		26.6
Green Extensio		(g₀), s				0.0	<u> </u>		0.0	0.0		5.2	0.4		5.2
Phase Call Prot		11 11 11 11 11 12 11 11 12 11 11 11 11 1					<u> </u>			0.1		1.00	1.00		1.00
Max Out Probal	bility						II	ļ		0.0	0	0.01	0.00		0.00
Movement Gro	un Baa	ulto	10 ML	1	EB		1	W	<u>с</u>	11	NB		N.	SB	
Approach Move	Contract of Contract of Contract A Contract	iuns		L	ED T	R	L	T	R	L		· R		ор   т	R
Assigned Move				5	2	12		6	16	3	8	18	 7		14
Adjusted Flow F	***********************	uah/h		11	2 375		7	947		5	519	495	213	4 575	540
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	w Rate <i>(s)</i> , veh/h/in		380	1810	1000 - 1000 - 1000 - 1000 - 1000	690	181		1723	1810	1723	1723	1810	1698
Queue Service	CONTRACTOR CONTRACTOR CONTRACTOR			1.5	11.2		0.5	15.		0.2	26.0	26.0	6.8	24.6	24.6
Cycle Queue Cl		and an an an an an an an an an an an an an		17.5	11.2		11.7	15.		0.2	26.0	26.0	6.8	24.6	24.6
Capacity (c), ve				186	828		311	165		167	600	571	268	752	706
Volume-to-Capa		tio (X)		0.058	0.45		0.021	0.57		-		0.866	0.796	0.764	0.765
Available Capa			. ang pangangangangang	186	828		311	165		965	1319	1256	645	1471	1381
subject to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	e estimate the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	Vin (95th percentile)		0.3	7.6	7.5	0.1	9.1	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	0.2	14.9	14.4	4.5	13.1	12.5
Overflow Queue				0.0	0.0	0.0	0.0	0.0		0.2	0.0	0.0	0.0	0.0	0.0
		RQ) (95th percentile)		0.04	0.0		0.02	0.0		0.02	0.00	0.00	0.0	0.0	0.00
Uniform Delay (	······	A CONSTRAINT AND AND AND AND AND AND AND AND AND AND	<u></u>	18,9	12.8		15.9	13.		23.2	25.9	25.9	20.9	18.5	18.5
And an an an an an an an an an an an an an		The second second second second second second second second second second second second second second second se		0.6	12.0	1.8	0.1	1.4		0.0	1.5	1.6	20.9	0.6	0.7
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	Allow Headway <i>(MAH)</i> , s				0.0	3.1		0.0	3.1		3.4	3.1		3.4
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Queue Service Time (g			2.7	0.0	0.0	0.1	0.4	0.4	0.7	0.9		2.7	0.4	<u>.</u>
Cycle Queue Clearance			2.7	0.0	0.0	0.1	0.4	0.4	0.7	0.9		2.7	0.4	<b></b>
Capacity (c), veh/h	(30)	1	59	1386	1357	450	2668	1265	140	47	ŀ	160	75	-
Volume-to-Capacity Ra	tio (X)		0.772	0.400		0.012	0.229	and the second second second second second second second second second second second second second second second	0.093	0.303	<u> </u>	0.293	0.086	1
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Back of Queue (Q), veh			2.2	0.6	0.6	0.0	0.3	0.4	0.6	0.6		1.9	0.3	· · · · · · · · · · · · · · · · · · ·
Overflow Queue (Q3), v		1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Queue Storage Ratio (F			0.30	0.00	0.00	0.01	0.00	0.00	0.15	0.00		0.35	0.00	
Uniform Delay (d1), s/ve			47.2	0.0	0.0	3.3	0.2	0.2	45.9	47.4		42.8	45.2	
incremental Delay (d2),			7.7	0.9	0.9	0.0	0.2	0.4	0.1	1.3		0.4	0.2	
	al Queue Delay ( <i>ds</i> ), s/veh			0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Control Delay (d), s/veh	n			0.9	0.9	3.3	0.4	0.7	46.0	48.8	anna an an an an an an an an an an an an	43.1	45.4	1
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	se Duration, s nge Period, (Y+ <i>Rc</i> ), s					76.9			76.9	5.6		8.1	15.		17.5
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Approach Move	A REAL PROPERTY AND INCOME.				T	R		T	R			R		Τ	R
Assigned Move				5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F	and the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of th	veh/h		17	438	427	11	985		14	17		179	29	
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	and the state of the state of the state of the state of the state of the state of the state of the state of the	w Rate (s), veh/h/ln		332	1810		619	181		1723	1533		1645	1464	
Queue Service		and the second second second second second second second second second second second second second second second		0.2	1.0	1.0	0.1	1.2		0.8	1.1		9.0	1.8	<b>  </b>
Cycle Queue C	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	the second second second second second second second second second second second second second second second s		1.5	1.0	1.0	1.1	1.2		0.8	1.1		9.0	1.8	
Capacity (c), ve	In the second second second second second second second second second second second second second second second			310	1319		516	263		154	63		292	198	
Volume-to-Cap	and a second second second second second second second second second second second second second second second s	tio (X)		0.056	0.332		0.021	0.37		0.091	0.278		0.614	0.148	
Available Capa	All states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states and states			310	1319	1000-000000000000000000000000000000000	516	263		282	628		374	737	
- 10	Contraction of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the loc	/In (95th percentile)		0.1	0.8	0.8	0.0	0,7	and the second second second second second second second second second second second second second second second	0.6	0.8		6.4	1.1	
Overflow Queue	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	0.0	0.0	0.0	0.0	0.0		0.0	0.0	1	0.0	0.0	
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	RQ) (95th percentile)	)	0.01	0.00		0.00	0.00		0,16	0.00		0.86	0.00	1
Uniform Delay	the second second second second second second second second second second second second second second second s			0.4	0.4	0.4	0.4	0.4		44.8	46.5		31.2	38.2	<u> </u>
CONTRACTOR OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWNER OWN				0.3	0.7	0.7	0.1	0.4		0.1	0.9		0.8	0.1	
	remental Delay (d₂), s/veh tial Queue Delay (d₃), s/veh			0.0	0.0	0.0	0.0	0.0		0.0	0.0	ĺ	0.0	0.0	<b> </b>
Compared and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	ntrol Delay (d), s/veh			0.8	1.1	1.1	0.5	0.8	Care Contraction of	44.9	47.4		32.0	38.3	
	el of Service (LOS)			A	A	A	A	A	A	D	D	İ	С	D	
Approach Delay	Contraction of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the loc	/LOS		1.1	ľ	A	0.9		A	46.3		D	32.9		С
	rsection Delay, s/veh / LOS						.1	<u>I</u>		l			A	ų	
street overlight in the	section Delay, s/veh / LOS							1. H		н.		1. an - 10 - 10			
Multimodal Re	sults				EB		l	WE	}	1	NB			SB	
Pedestrian LOS		/LOS		2.2		B	2.2		В	3.0		С	3.2	1	С
Bicycle LOS Sc	ore / LC	S		1.2		A	1.3		Α	0.5	ļ	A	0.8		A
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-		HCS 2	010 S	ignal	ized	Inter	sectio	n Re	sults	Sui	mma	ary	•			
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General Inform	aation								Inters	ortio	n Infe	ormatio	n n		(RORO)	<u>P.F</u>
	lation	TASK Engineering				and the first of the first of the first of the first of the first of the first of the first of the first of the			Duratio	A		0.25		-	4++	
Agency		Ken Howell		Analy	oio Do	to Lion	28, 2013	*****************	Area T		Ware courts actually	Other				
Analyst								)	PHF	ype					22 7	
Jurisdiction		City of Phoenix		Time			Pk Hr					0.92	20		5	
Intersection		59th Avenue/Roose	evelt St	Analy	sis ye	ar 2030	)		Analys	is Pe	erioa	1> 7:(	10			a a a a a a a a a a a a a a a a a a a
File Name		59 Roo AM .xus						11 - Marine Managara - 17 au		100 ⁰⁰⁰ 0000000000000000000000000000000					<u> </u>	
Project Descrip	tion	2030 Build												1 1	N SCOLER M	R C
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Approach Move						R		1			ـــ م	T	R	L	T	R
Demand (v), ve	h/h			154	76	3 94	68	2	8 8	8	74	1265	5 106	91	964	16
					1	1			<b>11</b> -T		1-11:-		<u> </u>			1
Signal Informa					2	~ <u>-</u> 3			5 6	Ϋ	205			<b>x</b>	5	ふ
Cycle, s	100.0	Reference Phase	2			Ĩ	R	- 0	Ϋ́Ι		R. (	1°		♥		4
Offset, s	0	Reference Point	End	Green		0.1	24.6				45.9					
Uncoordinated	No	Simult. Gap E/W	On	Yellov	the second second second second second second second second second second second second second second second s	3.0	3.0	3.0			3.0		<b>~</b>	V	<u>&gt;</u>	
Force Mode	Fixed	Simult. Gap N/S	On	Red	<u> 1.0</u>	1.0	[1.0	1.(	) [0.	0	1.0		5	<u> </u>	7	
<b>Timer Results</b>	an Shekararar Shekararar			E8	L	EBT	WE	3L	WBT		NBL	-	NBT	SB	-	SBT
Assigned Phas	6			5		2	1		6		3		8	7		4
Case Number				1.1		4.0	1.1		4.0		1.1		4.0	1.1		4.0
Phase Duration	se Duration, s			12.1	7	32.7	8.6	}	28.6		8.5		49.9	8.8		50.2
Change Period	nge Period, (Y+Rc), s			4.0	1	4.0	4.0	)	4.0		4.0		4.0	4.0		4.0
Max Allow Hea	ge Period, (Y+R₀), s Allow Headway <i>(MAH)</i> , s			3.1		0.0	3.1		0.0	1	3.1		3.0	3.1		3.0
Queue Clearan		The factor of the second second second second second second second second second second second second second se		8.5			5.2	2		Î	4.4		38.8	5.0	Î	12.2
Green Extensio				0.3		0.0	0.1		0.0	Ť	0.1		7.1	0.1	ĺ	7.5
Phase Call Pro				0.99			0.8			Ť	0.89		1.00	0.94	1	1.00
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Max Out i Toba										N A						
Movement Gro	up Res	ults			EB			WE				NB			SB	
Approach Move				L	Т	R	L	Т	R	Ť	L	Т	R	L	Г	R
Assigned Move				5	2	12	1	6	16	Ì	3	8	18	7	4	14
Adjusted Flow I		veh/h		167	185		74	126		1	80	753	738	99	712	353
	i	w Rate (s), veh/h/in	1	1723	1640		1723	159			723	1810	1760	1723	1810	1794
Queue Service				6.5	9.0		3.2	6.5	าสารสารสารสารสารสารสารสารสารสารสารสารสาร	was filosaan	2.4	36.2	36.8	3.0	10.2	10.2
Cycle Queue C				6.5	9.0		3.2	6.5		g	2.4	36.2	36.8	3.0	10.2	10.2
Capacity (c), ve		5 mile (99, 5		443	472		379	391			333	831	808	186	1674	829
Volume-to-Cap		tio (Y)		0.378	0.39		0.195	0.32	and a management			0.906	0.913	0.533	0.425	0.426
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	Contraction of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the loc			781	472		788	391		and the second	946	1180	1148	517	2372	1175
Available Capa								_			1.6	18.4	1148	2.0	6.3	6.3
		Vin (95th percentile)	•	4.6	6.8		2.3	4.8		B				÷		
Overflow Queue				0.0	0.0		0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0
Company of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local d		RQ) (95th percentile	)	0.60	0.00		0.30	0.00		Q	.21	0.00	0,00	0.26	0.00	0.00
Uniform Delay (	101010			21.3	28,6		26.3	30.9			3.3	17.5	17.6	21.6	12.3	12.3
Incremental De				0.2	2.4		0.1	2.2			0.1 [°]	6.1	6.8	0.9	0.1	0.1
Initial Queue De	al Queue Delay (d₃), s/veh			0.0	0.0		0.0	0.0	- Janan and a second		0,0	0.0	0.0	0.0	0.0	0.0
Control Delay (	rol Delay (d), s/vèh		5	21.5	31.1		26,4	33.1		1	3.4	23.6	24.5	22.5	12.3	12.4
Level of Service	of Service (LOS)			С	С		С	C			В	С	С	С	В	В
Approach Delay	oach Delay, s/veh / LOS			26.5	5	С	30.	6	С		23.5		C	13.2	2	В
Intersection Del	ection Delay, s/veh / LOS					2	20.6			T				С		
Multimodal Re	sults				EB		c	WB		T		NB			SB	
Pedestrian LOS		/ LOS		3.2	Γ	С	3.0	)	С	Î	2.3		В	2.3		В
Bicycle LOS Sc				1.1	l	A	0.8		Α	Τ	1.8	ĺ	A	1.1		A

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General Inform	ation					<u></u>			Intersed	tion Inf	ormatio	on	17	ብይጽወ	
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Demand Inform	nation				EE	<b>3</b> - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 19		W	В		NB			SB	
Approach Move	ement			L	Τ	R	L	T	R	L	Т	R	L	Т	R
Demand (v), ve	and the second second second second second second second second second second second second second second second	na an trian Analysian Na Antonio an Angela		44	33	58	148	4	5 121	67	1068	3 75	87	1562	63
Signal Informa	tion	a da se da se composition de la composition de la composition de la composition de la composition de la composi La composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la compo	anna ann an San			0 4	≝.:	<u>ы</u>	2   2W	s 20	a		_	ĸ	$\mathbf{\lambda}$
Cycle, s	100.0	Reference Phase	2	ļ	۲,	e i	ΉË (	~		5	17		<del>(</del>	<u>}</u>	≚Ų⊐ ₄
Offset, s	0	Reference Point	End	Green	3.7	0.2	30.4	4.3	0.6	40.8			K		
Uncoordinated	No	Simult. Gap E/W	On	Yellow		3.0	3.0	3.0		3.0		~		<b>S</b>	
Force Mode	Fixed	Simult. Gap N/S	On	Red	1.0	1.0	1.0	1.0	0.0	1.0		5	a (	7	
<b>Timer Results</b>	e na nagyar			EBI	-	EBT	WB	L	WBT	NB	-	NBT	SB	-	SBT
Assigned Phase	9	1999		5		2	1		6	3		8	7		4
Case Number				1.1		4.0	1.1		4.0	1.1		4.0	1.1		4.0
Phase Duration	se Duration, s			7.7		34.4	11.9	9	38.6	8.3		44.8	8.9		45.4
Change Period,	nge Period, (Y+Rc), s			4.0		4.0	4.0		4.0	4.0		4.0	4.0		4.0
Max Allow Head	ige Period, (Y+R₀), s Allow Headway <i>(MAH</i> ), s			3.1		0.0	3.1		0.0	3.1		3.0	3.1		3.0
Queue Clearan	ce Time	( <i>gs</i> ), s		3.9		-	7.7			4.4		31.5	5.1		28.1
Green Extensio	n Time	(g₀), s		0.1		0.0	0.3		0.0	0.1		9.3	0.2		9.6
Phase Call Prol	bability			0.74	<b>i</b> .		0.99	9		0.87		1.00	0.93		1.00
Max Out Proba	bility	an an Alina ann an Alina ann an Ann an Ann an Ann an Ann an Ann an Ann an Ann an Ann an Ann an Ann an Ann an An		0.00	)	100	0.00	)		0.00		0.21	0.00	)	0.16
Movement Gro		ults			EB			WB	*	<u> </u>	NB	<u> </u>		SB	
Approach Move				L	Т	R	L	T	R	L	T	R	<u> </u>	T	R
Assigned Move		· ····································		5	2	12	1	6	16	3	8	18	7	4	14
Adjusted Flow F	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se			48	99		161	180		73	628	614	95	1185	581
		w Rate (s), veh/h/ln	1	1723	1623		1723	1600	)	1723	1810	1767	1723	1810	1772
Queue Service				1.9	4.5		5.7	8.3	_	2.4	29.5	29.5	3.1	26,1	26.1
Cycle Queue C		e Time <i>(g₀)</i> , s		1.9	4.5		5.7	8.3	<u> </u>	2.4	29.5	29.5	3.1	26.1	26.1
Capacity (c), ve	the second second second second second second second second second second second second second second second s	a - you ga you ga you ga you ga you da a a shiri in inggaa		441	494		532	554		187	738	721	205	1497	733
Volume-to-Capa				0.108	0.20		0.302	0.320		0.390	0.851	0.852	0.461	0.792	0.792
Available Capa				952	494		901	554		732	1051	1027	913	2123	1039
		n/In (95th percentile)	)	1.4	3.3		3.9	5.9		1.7	16.0	15:8	2.1	13.8	13.8
Overflow Queue				0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
		RQ) (95th percentile	)	0.18	0.00		0.51	0.00		0.22	0.00	0.00	0.28	0.00	0.00
Uniform Delay (				22.4	25.8		17.6	24.1		19.9	20.2	20.2	20.7	19.0	19.0
and the second second second second second second second second second second second second second second second	remental Delay (d2), s/veh			0.0	0.9		0.1	1.6	<u></u>	0.5	3.4	3.6	0.6	0.9	1.7
	al Queue Delay (ds), s/veh			0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
	trol Delay (d), s/veh			22.5	26.7	<u></u>	17.8	25.7	<u> </u>	20,4	23.6	23.8	21.3	19.8	20.7
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	l of Service (LOS) oach Delay, s/veh / LOS			С	<u> </u>	<u> </u>	В	C		С	С	C	С	B	C
	roach Delay, s/veh / LOS			25.3	3	C	21.9	)	С	23,5		C	20.2	!	С
Intersection Del	section Delay, s/veh / LOS					2	1.8						C		
Multimodal Re				3.2	EB		<u> </u>	ŴB			NB			SB	
					1	С	2.9	1	С	2.3	1	В	2.3	1	В
	odal Results ian LOS Score / LOS LOS Score / LOS					A	1.1		Ā	1.6		A	1.5		Ā

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	TW	O-WAY STOP	CONTRO	OL SUM	MARY			
General Informatio	n	**************	Site Ir	nformati	on			
Analyst	kmh		Interse	ction		59th Ave	nue/Acces	s A
Agency/Co.	TASK		Jurisdi	ction	7	City of Pl	hoenix	
Date Performed	12/30/20		Analys	is Year		2030		
Analysis Time Period	AM Pk Hi	r						
	30 Build							
East/West Street: Acce					et: 59th A	venue		
Intersection Orientation:	North-South		Study F	eriod (hrs	s): 0.25	animaalin (internationalinear spectrum)	ana manana ara ana ara ana ara ar	
Vehicle Volumes a	nd Adjustme						······································	
Major Street		Northbound			·····	Southbou	Ind	
Movement	1	2	3		4	5		6
	L	<u>T</u>	R		L	T		<u>R</u>
Volume (veh/h)	0.00	0.00	1.00		1.00	1049		23
Peak-Hour Factor, PHF Hourly Flow Rate, HFR	0.92	0.92	1.00		1.00	0.92		0.92
veh/h)	. 0	0	0		0	1140		24
Percent Heavy Vehicles	5				0			
Median Type			Two N	/ay Left Ti	urn Lane		I	
RT Channelized			0				I	0
anes	0	0	0		0	2		1
Configuration						T T		R
Upstream Signal		0				0		
Vinor Street		Eastbound				Westbou	nd	
Vovement	7	8	9		10	11		12
	L	Т	R		L	T T		R
/olume (veh/h)			5					
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00
Hourly Flow Rate, HFR	0	0	5		0	0		0
(veh/h)								
Percent Heavy Vehicles	5	0	10		0	0		0
Percent Grade (%)		0	1			0		
Flared Approach		N				N		
Storage		0				0		
RT Channelized			0			<u> </u>		0
Lanes	0	0	1		0	0		0
Configuration			R					
Delay, Queue Length, a	und Level of Se	rvice						
Approach	Northbound	Southbound	٧	Vestbound	d		Eastbound	
Movement	1	4	7	8	9	10	11	12
ane Configuration	······					1		R
/ (veh/h)	·					1		5
C (m) (veh/h)								506
//c						1		0.01
95% queue length								0.03
								12.2
Control Delay (s/veh)								
LOS					<u> </u>	<u> </u>		В
Approach Delay (s/veh)						· ·	12.2	
Approach LOS							В	

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General Information Analyst Agency/Co. Date Performed Analysis Time Period Project Description 203	kmh		Site I		41				
Agency/Co. Date Performed Analysis Time Period				mom	iation				
Agency/Co. Date Performed Analysis Time Period			Interse	ection			59th Ave	nue/Acce	əss A
Date Performed Analysis Time Period	TASK	₩	Jurisdi	iction			City of Pl	hoenix	
	12/30/201	12	Analys	sis Yea	r		2030		
Project Description 203	PM Pk Hi	•							
	30 Build		•						
East/West Street: Acces			North/S	South S	Street:	59th Av	enue		
ntersection Orientation:	North-South		Study I	Period	(hrs): (	).25			
/ehicle Volumes an	d Adjustme	nts				al la de la construit de la la construïna			
Viajor Street		Northbound					Southbou	und	•
Movement	1	2	3		4		5		6
	L	T	R		L		Т		R
/olume (veh/h)							1534		8
Peak-Hour Factor, PHF	0.92	0.92	0.92		1.0	0	0.92		0.92
lourly Flow Rate, HFR veh/h)	0	0	0		0		1667		8
Percent Heavy Vehicles	5				0				
Median Type		······································	Two V	Vay Le	ft Turn L	.ane			
RT Channelized			0						0
anes	0	0	0		0		2		1
Configuration							T		R
Jpstream Signal		0					0		
Minor Street		Eastbound					Westbou	Ind	
Movement	7	8	9		1(		11		12
	L	Т	R		L		Т		R
/olume (veh/h)			18						
Peak-Hour Factor, PHF	0.92	1.00	0.92	'	1.0	0	1.00		1.00
lourly Flow Rate, HFR veh/h)	0	0	19		0		0.		0
Percent Heavy Vehicles	5	0	10		0		0		0
Percent Grade (%)		0					0		
-lared Approach		N					N		
Storage		0					0		
RT Channelized		·····	0	ĺ					0
anes	0	0	1		0		0		0
Configuration			R					İ	
Delay, Queue Length, ar	nd Level of Se	rvice							
	Northbound	Southbound	١	Westbo	ound			Eastbour	nd
Aovement	1	4	7	8		9	10	11	12
ane Configuration	-								R
v (veh/h)									19
C (m) (veh/h)									356
				<u> </u>					0.05
//C				<u> </u>				<u> </u>	
5% queue length									0.17
Control Delay (s/veh)									15.7
OS									C.
Approach Delay (s/veh)								15.7	
Approach LOS								С	· .
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General Informatio	n		Site Ir	nforma	ition			
Analyst	kmh		Interse	ction		59th Ave	nue/Acces	s B
Agency/Co.	TASK		Jurisdi	ction		City of P	hoenix	
Date Performed	12/30/20	12	Analys	is Year		2030		
Analysis Time Period	AM Pk H	lr						
Project Description 20	030 Build							
East/West Street: Acce					eet: 59th A	venue		
Intersection Orientation:	North-South		Study F	Period (h	rs): 0.25			
Vehicle Volumes a	nd Adjustm	ents						
Major Street	•	Northbound				Southbou	und	
Movement	1	2	3		4	5		6
	L	Т	R		L	Т		R
Volume (veh/h)			4.00		(	1036		13
Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0		0	1126		14
Percent Heavy Vehicles	5				0			
Median Type			· · · · · ·	Undivid	led		· · · · · · · · · · · · · · · · · · ·	
RT Channelized			0					0
Lanes	0	0	0		0	2		1
Configuration						Т		R
Jpstream Signal		0				0		
Minor Street		Eastbound				Westbou	Ind	
Novement	7	8	9		10	11		12
	L	Т	R		L	<u> </u>		R
/olume (veh/h)			9					
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00
Hourly Flow Rate, HFR (veh/h)	0	0	9		0	0		0
Percent Heavy Vehicles	5	0	5		0	0		0
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		
RT Channelized			0					0
anes	0	0	1		0	0		0
Configuration			R					
Delay, Queue Length, a	and Level of S	ervice						
Approach	Northbound	Southbound	V	Vestbou	nd	[	Eastbound	
Novement	1	4	7	8	9	10	11	12
ane Configuration								R
(veh/h)						1		. 9
(vei///) C (m) (veh/h)						1		520
						-		0.02
								0.02
95% queue length								
Control Delay (s/veh)								12.0
.OS							L	В
pproach Delay (s/veh)						· ·	12.0	
pproach LOS							В	
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	<u> </u>	WO-WAY STOF	CONTR	OL S	UMMARY			angan popularan mananan distanti ta 1901
General Informatio	n		Site Ir	nforn	nation	99. juliu - 11. iu. iu. iu. iu. iu. iu. iu. iu. iu. iu		
Analyst	kmh		Interse	ction		59th Ave	nue/Acce	ss B
Agency/Co.	TASK		Jurisdi	ction		City of Pl	hoenix	
Date Performed	12/30/2		Analys	is Yea	r	2030		
Analysis Time Period	PM Pk	Hr						
Project Description 20		· · · · · · · · · · · · · · · · · · ·						
East/West Street: Acce	and the second second second second second second second second second second second second second second second				Street: 59th	Avenue		
Intersection Orientation:	North-Sout	h	Study F	Period	(hrs): 0.25			
Vehicle Volumes a	nd Adjustn					v		
Major Street		Northbound				Southbo	und	
Movement	1	2	3		4	5		6
	L	Т	R		<u>L</u>	T		R
Volume (veh/h)	0.00	0.92	0,92		1.00	<u> </u>		4 0.92
Peak-Hour Factor, PHF	0.92	0.92	0.92					
Hourly Flow Rate, HFR (veh/h)	0	0	0		0	1682		4
Percent Heavy Vehicles	5				0			
Median Type			- <b>r</b>	Undi	/ided			
RT Channelized			0					0
Lanes	0	0	0		0	2		1
Configuration						T		<u></u>
Upstream Signal		0				0		·····
Minor Street		Eastbound				Westbou	ind	
Movement	7	8	9		10	11		12
	L	Т	R		L	T		R
Volume (veh/h)			31					
Peak-Hour Factor, PHF	0.92	1.00	0.92		1.00	1.00		1.00
Hourly Flow Rate, HFR (veh/h)	0	0	33		0	0		0
Percent Heavy Vehicles	5	0	10		0	0		0
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		
RT Channelized			0					0
Lanes	0	0	1		0	0		0
Configuration			R					
Delay, Queue Length, a	and Level of	Service						
Approach	Northbound		V	Vestbo	ound	[	Eastbound	l
Movement	1	4	7	8	9	10	11	12
Lane Configuration							Ì	R
v (veh/h)								33
C (m) (veh/h)			í l			1		353
v/c		_						0.09
95% queue length								0.31
								16.2
Control Delay (s/veh)								10.2 C
LOS							40.0	
Approach Delay (s/veh)						_	16.2	
Approach LOS		~~					С	
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		O-WAY STOP	CONTR	KUL SU	JIMIMARY			
General Informatio	n	****	Site	Inform	ation			
Analyst	kmh		Inters	section		59th Ave	nue/Fillmo	ore Stree
Agency/Co.	TASK			diction		City of P		
Date Performed	1/28/201	3	Analy	vsis Year		2030		
Analysis Time Period	AM Pk H	r			the state of the second second second second second second second second second second second second second se			
Project Description 20	030 Build							
East/West Street: Fillm			North	South S	treet: 59th A	venue		
ntersection Orientation:					hrs): 0.25			
Vehicle Volumes a	nd Adjustme	onts		and a second second second second second second second second second second second second second second second				
Major Street		Northbound				Southbo	und	
Movement	1	2	3		4	5		6
			F		L	T T		R
/olume (veh/h)						1077		13
Peak-Hour Factor, PHF	0.92	0.92	1.0	0	1.00	0.92		0.92
fourly Flow Rate, HFR veh/h)	0	0	0		0	1170		14
Percent Heavy Vehicles	5				0			
Median Type			Two	Way Lef	t Turn Lane	1		
RT Channelized		1						0
anes	0	0	0		0	2		1
Configuration	_ <del> </del>		<b>†</b> – – – – – – – – – – – – – – – – – – –		~	$\frac{z}{T}$		R
Jpstream Signal		0	1			0		
Ainor Street		Eastbound	_1			Westbou	und	
Novement	7	8	9		10	11		12
Novement	L	T	R		L	T		<u>12</u> R
/olume (veh/h)	0	\$	25		<u>د</u>	1		<u>N</u>
Peak-Hour Factor, PHF	0.92	1.00	0.9		1.00	1.00		1.00
Jourly Flow Rate, HFR								
veh/h)	0	0	27		0	0		0
Percent Heavy Vehicles	5	0	5	- i	0	0		0
Percent Grade (%)		0				0		
lared Approach		N				N	ł	
Storage		0				0		
T Channelized		<u> </u>	0					0
	0	0	0		0	0		
anes Configuration					v	- U		0
			<u> </u>					
elay, Queue Length, a						1		
pproach	Northbound	Southbound		Westbou			Eastbound	
lovement	1	4	7	8	9	10	11	12
ane Configuration							LR	
(veh/h)						-	27	
(m) (veh/h)			·				505	1
/c				1			0.05	1
5% queue length						- <b> </b>	0.00	1
				}		<u> </u>		
ontroi Delay (s/veh)				I		<b> </b>	12.5	
OS							В	1
pproach Delay (s/veh)						<u> </u>	12.5	
pproach LOS						1	В	

aunn sei mannan manananan manan marka kara an an an an an an an an an an an an an	<u> </u>	WO-WAY SI		ROL S	UMI	MARY		5:2** <b>*</b> 1185:::***	
General Informatio	n		Site	Inforn	natio	on			
Analyst	kmh	u		ection			59th Ave	nue/Filln	nore Street
Agency/Co.	TASK			diction			City of Pl		
Date Performed	1/28/20	)13		sis Yea	ar		2030		
Analysis Time Period	PM Pk	and the second second second second second second second second second second second second second second second							
	)30 Build								
East/West Street: Fillm			North	South S	Stree	t: 59th A	venue		
Intersection Orientation:		7				: 0.25			
Vehicle Volumes a									
Major Street		Northbou	ind		T		Southbou	Ind	
Movement	1	2	3			4	5		6
MOVEMENT	L L		R			Ĺ	T		R
/olume (veh/h)					<u> </u>		1703		50
Peak-Hour Factor, PHF	0.92	0.92	1.0	0		1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0			0	1851		54
Percent Heavy Vehicles	5					0			
Median Type			Two	Way Le	əft Tu	rn Lane	• • • • • •		
RT Channelized			0						0
anes	0	0	0		<b> </b>	0	2		1
Configuration	<u>~</u>	ž			<u> </u>		$\frac{-}{r}$		R
Upstream Signal		1			<u> </u>		1		
Winor Street		Eastbou	ind				Westbou	nd	
Movement	7	8	9			10	11		12
Novement	Ľ	T	R			L	T		R
/olume (veh/h)	<u> </u>		22					<u> </u>	••
Peak-Hour Factor, PHF	0.92	1.00	0.9			1.00	1.00		1.00
Hourly Flow Rate, HFR	0	0	23			0	0		0
(veh/h)									
Percent Heavy Vehicles	5	0	5			0	0		0
Percent Grade (%)		0					0		
Flared Approach		<u>N</u>					N		
Storage		0					0		
RT Channelized			0						0
Lanes	0	0	1			0	0		0
Configuration			R						
Delay, Queue Length, a	and Level of	Service							
Approach	Northbound		d	Westb	ound		E	Eastbou	nd
Novement	1	4	7	8		9	10	11	12
ane Configuration									R
/ (veh/h)				1					23
C (m) (veh/h)				+					322
//c									0.07
95% queue length				<u> </u>					0.23
Control Delay (s/veh)									17.0
_OS									С
Approach Delay (s/veh)								17.0	
Approach LOS								С	
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	T۷	VO-WAY STOP	ONTR	OL SU	MMARY			
General Informatio	n		Site I	nforma	ation			
Analyst	kmh		Interse	ection		Van Bur	en Street	/Access C
Agency/Co.	TASK		Jurisdi	ction		City of P		
Date Performed	12/31/20		Analys	sis Year		2030		
Analysis Time Period	AM Pk F	lr						
	030 Build							
East/West Street: Van					reet: Access	s C		
Intersection Orientation	East-West	and a manufacture of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	Study F	Period (h	nrs): 0.25			
Vehicle Volumes a	nd Adjustme	ents						
Major Street		Eastbound				Westbo	unđ	
Movement	1	2	3		4	5		6
	L	T	R		L	T		R
Volume (veh/h)		1126				829		22
Peak-Hour Factor, PHF	0.92	0.92	0.92		1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	1223	0		0	901		23
Percent Heavy Vehicles	5				0			
Median Type			Two V	Vay Left	Turn Lane			
RT Channelized			0					0
Lanes	0	2	0		0	2		1
Configuration		Т				T		R
Jpstream Signal		0				0		
Minor Street		Northbound				Southbo	und	
Movement	7	8	9		10	11		12
	L	Т	R		L	T		R
/olume (veh/h)								2
Peak-Hour Factor, PHF	0.92	0.92	1.00		1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0		0	0		2
Percent Heavy Vehicles	5	5	0		0	5		5
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0		Ī		0		
RT Channelized			0					0
.anes	0	0	0		0	0		1
Configuration								R
Delay, Queue Length, a	and Level of Se	rvice	- MA					
\pproach	Eastbound	Westbound	N	lorthbou	nd	s	outhbour	าต่
lovement	1	4	7	8	9	10	11	12
ane Configuration				-		···		R
(veh/h)								2
(m) (veh/h)		· · · · · · · · · · · · · · · · · · ·						598
		F						
								0.00
5% queue length								0.01
Control Delay (s/veh)					_			11.0
OS								В
pproach Delay (s/veh)		、					11.0	
pproach LOS							В	
pyright © 2010 University of Fl	orida, Ali Rights Rese	erved	HC	S+ TM Ver	eion 5 6	Genera	afed: 12/31/	2012 9:04 A

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General Informatio	n		Site	nform	ation			
Analyst	kmh		Inters	ection		Van Bur	en Street/	Access C
Agency/Co.	TASK	****	Jurisd			City of P		
Date Performed	12/31/20	12	Analy	sis Year		2030		
Analysis Time Period	PM Pk H	r						
Project Description 20	030 Build							
East/West Street: Van	Buren Street		North/	South St	treet: Acces	s C		
Intersection Orientation:	East-West		Study	Period (	hrs): 0.25			
Vehicle Volumes a	nd Adjustme	ents						
Major Street		Eastbound				Westbou	und	
Movement	1	2	3		4	5		6
	L	Т	R		L	Т		R
Volume (veh/h)		970				1191		8
Peak-Hour Factor, PHF	0.92	0.92	0.92	<u> </u>	1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	1054	0		0	1294		8
Percent Heavy Vehicles	5			i	0			
Median Type			Two	Nay Left	Turn Lane			
RT Channelized			0					0
Lanes	0	2	0		0	2		1
Configuration		Т				Т		R
Upstream Signal		0				0		
Minor Street		Northbound				Southbo	und	
Movement	7	8	9		10	11		12
	L	Т	R		L	т		R
Volume (veh/h)								8
Peak-Hour Factor, PHF	0.92	0.92	1.00	<u> </u>	1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0		0	0		8
Percent Heavy Vehicles	5	5	0		0	5		5
Percent Grade (%)		0				0		
Flared Approach		N				N		
Storage		0				0		
RT Channelized		Î	0					0
Lanes	0	0	0		0	0		1
Configuration								R
Delay, Queue Length, a	nd Level of Se	rvice						
Approach	Eastbound	Westbound		Vorthbou	und	5	outhboun	d
Movement	1	4	7	8	9	10	11	12
Lane Configuration	· ·		·	Ť				R
v (veh/h)								8
C (m) (veh/h)								461
								0.02
95% queue length								
								0.05
Control Delay (s/veh)								12.9
LOS								В
Approach Delay (s/veh)							12.9	
Approach LOS						1	В	

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General Informatio	on		Site	Infor	nation					
Analyst	kmh		Inter	section			Van Bu	en Str	reet/Ac	cess F
Agency/Co.	TASK			diction			City of F			00000 L
Date Performed	12/28/20		Anal	/sis Ye	ar		2030			
Analysis Time Period	AM Pk F	łr								
Project Description 2										
East/West Street: Van					Street:		s E			
Intersection Orientation			Study	Period	(hrs):	0.25				
Vehicle Volumes a	nd Adjustme	ents								
Major Street		Eastbound					Westbo	und		
Movement	1	2	3		1	4	5			6
\	L	T	F	<u> </u>	ļ	Ļ	Т			R
Volume (veh/h) Peak-Hour Factor, PHF	0.00	1046		~	L	~~	829			40
Hourly Flow Rate, HFR		0.92	0.9	2	1.0	00	0.92		(	0.92
(veh/h)	0	1136	0		(	)	901			43
Percent Heavy Vehicles	5					)				
Median Type			Two	Way Le	oft Turn	Lane				· · · · · · · · · · · · · · · · · · ·
RT Channelized			0							0
anes	0	2	0		0	)	2			1
Configuration		Т					Т			R
Upstream Signal		0				4	0			
Minor Street		Northbound					Southbo	und		
Movement	7	8	9		1	0	11			12
	L	Т	R		l	_	Т			R
Volume (veh/h)										2
Peak-Hour Factor, PHF	0.92	0.92	1.0	2	1.0	00	0.92		0	.92
Hourly Flow Rate, HFR (veh/h)	0	0	0		0	•	0			2
Percent Heavy Vehicles	5	5	0		0		5			5
Percent Grade (%)		0					0			
Iared Approach		N					N			
Storage		0					0			
RT Channelized			0					Ī		0
.anes	0	0	0		0		0			1
Configuration										R
Delay, Queue Length, a	and Level of Se	rvice							Kar <del>ar a</del>	
pproach	Eastbound	Westbound		Northbo	ound		S	outhb	ound	
lovement	1	4	7	8		9	10	1		12
ane Configuration							[	· · ·	-	R
(veh/h)				1						2
(m) (veh/h)										598
/c									<u> </u>	0.00
5% queue length										0.00
Control Delay (s/veh)										
OS	······									11.0
pproach Delay (s/veh)									<u></u>	В
									<u>ر</u>	
pproach LOS					/ersion 5.6			В		

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	٨T	O-WAY STOP	CONTRO	L SUMMARY			
General Informatio	n		Site Inf	ormation	********		
Analyst	kmh		Intersect	ion	Van Bur	en Street/	Access E
Agency/Co.	TASK		Jurisdict	on	City of P	hoenix	
Date Performed	12/31/20		Analysis	Year	2030		
Analysis Time Period	PM Pk H	lr					
	030 Build						
East/West Street: Van				uth Street: Acce	ss E		
Intersection Orientation:			Study Pe	riod (hrs): 0.25		- 1741	
Vehicle Volumes a	nd Adjustme						
Major Street		Eastbound			Westbou	und	-
Movement	1	<u>2</u> T	3	4	5		6
Volume (veh/h)	<u> </u>	T 809	R		T 1297		<u>R</u> 13
Peak-Hour Factor, PHF	0.92	0.92	0.92	1.00	0.92		0.92
Hourly Flow Rate, HFR							
(veh/h)	0	879	0	0	1409		14
Percent Heavy Vehicles	5			0		Î	e7 76
Median Type			Two Wa	y Left Turn Lane			
RT Channelized			0				0
Lanes	0	2	0	0	2		1
Configuration		Т			T		R
Upstream Signal		0			0		
Minor Street		Northbound			Southbo	und	
Movement	7	8	9	10	11		12
	L	Т	R	L	7		R
Volume (veh/h)							10
Peak-Hour Factor, PHF	0.92	0.92	1.00	1.00	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	0	0	0	0	0		10
Percent Heavy Vehicles	5	5	0	0	5		10
Percent Grade (%)		0			0		
Flared Approach		N			N		
Storage		0		· · · · · · · · · · · · · · · · · · ·	0		
RT Channelized			0				0
Lanes	0	0	0	0	0		1
Configuration							R
Delay, Queue Length, a	nd Level of Se	rvice				67	
Approach	Eastbound	Westbound	No	thbound	5	outhbour	ıd
Movement	1	4	7	8 9	10	11	12
Lane Configuration						-	R
v (veh/h)						ļ	10
C (m) (veh/h)							415
//c							0.02
95% queue length	·······						0.02
							_
				1	1		1 400
Control Delay (s/veh)							13.9
Control Delay (s/veh) _OS							13.9 B
Control Delay (s/veh)						13.9 B	

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n <mark>gan senara na kabadapang kana sana senara na kabada na kabada na kabada na kabada na kabada na kabada na kabada</mark>	TW	O-WAY STOP	CONTR	OL SI	JMMA	RY		a () a ga a da an an an an an an an an an an an an an	
General Informatio	n		Site I	nform	ation				
Analyst	kmh		Interse	ection			Van Bure	n Street	/Access F
Agency/Co.	TASK		Jurisdi				City of Pl	noenix	
Date Performed	12/31/20	12	Analys	sis Year	ŕ		2030		
Analysis Time Period	AM Pk Hi	r							
Project Description 20	30 Build								
East/West Street: Van					treet: /		<u>F</u>		
Intersection Orientation:	East-West		Study I	Period (	(hrs): (	).25	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
Vehicle Volumes a	n <mark>d Adjustm</mark> e				,,				
Major Street		Eastbound					Westbou	nd	
Movement	1	2	3		4		5		6
	<u> </u>	T (000	R				T 700		<u> </u>
Volume (veh/h)	15	1203	68		4		792		37
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.9	2	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	16	1307	73		4		860		40
Percent Heavy Vehicles	5				5				
Median Type				Vay Lei	ft Turn L	.ane	·····		
RT Channelized			0						0
Lanes	1	2	0		1		2		1
Configuration	L	Т	TR		L		Т		<u></u> R
Upstream Signal		0					0		
Minor Street		Northbound					Southbou	Ind	
Movement	7	8	9		1	0	11		12
	L	Т	R		L	-	Т		R
Volume (veh/h)	12	0	13		3		0		2
Peak-Hour Factor, PHF	0.92	0.92	0.92		0.9	2	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	13	0	14		3		0		2
Percent Heavy Vehicles	10	10	10		10	)	10		10
Percent Grade (%)		0					0		
Flared Approach		N					N		
Storage		0					0		
RT Channelized			0						0
Lanes	1	1	0		1		1		0
Configuration	L		TR		L				TR
Delay, Queue Length, a	and Level of Se	rvice	9,549,97,97,97,97,96,569,97,98,999,97,999,999,999,999,999,999						
Approach	Eastbound	Westbound	1	Vorthbo	ound		s	outhbou	ind
Movement	1	4	7	8		9	10	11	12
Lane Configuration	L	L	L			TR	L		TR
v (veh/h)	16	4	13			14 .	3		2
C (m) (veh/h)	732	477	113			423	178		600
v/c	0.02	0.01	0.12			).03	0.02		0.00
95% queue length	0.07	0.03	0.38			).10	0.05		0.01
Control Delay (s/veh)	10.0	12.6	41.0			3.8	25.6		11.0
LOS	В	В	E	-		В	D		В
Approach Delay (s/veh)				26.9	)			19.8	
Approach LOS				 D				С	
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	T۷	O-WAY STO		OL SU	IMMARY			2019/2019/10/2019/2019/2019/2019/2019/20
General Informatio			Site	nform	ation			
Analyst	kmh	· · · · · · · · · · · · · · · · · · ·	Inters	ection		Van Bur	en Stree	t/Access F
Agency/Co.	TASK		Jurisc	iction		City of P	hoenix	
Date Performed	12/31/20		Analy	sis Year		2030		
Analysis Time Period	PM Pk H	lr						
Project Description 2					·			
East/West Street: Van					treet: Access	s F		
Intersection Orientation:			[Study	Period (	hrs): 0.25			
Vehicle Volumes a	<u>nd Adjustme</u>							
Major Street		Eastbound				Westbo	und	
Movement		2	3		4	5		6
Volume (veh/h)	L	<u>Т</u> 890	R 63		<u> </u>	T 1334		<u>R</u>
Peak-Hour Factor, PHF	0.92	0.92	0.92	<del>,</del>	0.92	0.92		<u>18</u> 0.92
Hourly Flow Rate, HFR								
(veh/h)	9	967	68		7	1449		19
Percent Heavy Vehicles	5	-			5			
Median Type			Two I	Nay Left	t Tum Lane			
RT Channelized			0					0
Lanes	1	2	0		1	2		1
Configuration	L	Т	TR		L	T		R
Upstream Signal		0				0		
Minor Street	•	Northbound				Southbo	und	
Movement	7	8	9		10	11		12
	L	Т	R		L	Т		R
Volume (veh/h)	16	0	16		10	0		11
Peak-Hour Factor, PHF	0.92	0.92	0.92	·	0.92	0.92		0.92
Hourly Flow Rate, HFR (veh/h)	17	0	17		10	0		11
Percent Heavy Vehicles	10	10	10		10	10		10
Percent Grade (%)		0				0		
Flared Approach		N			· · · · ·	N		
Storage	-	0				0		
RT Channelized	-		0				·····	0
Lanes	1	1	0	<u> </u>	1	1		0
Configuration	Ĺ		TR		L			TR
Delay, Queue Length, a	and Level of Se	rvice						
Approach	Eastbound	Westbound	<del>ا ا</del>	Vorthbou	und	5	Southbou	nd
Movement	1	4	7	8	9	10	11	12
Lane Configuration	L	L ·	L		TR	L 10	<u> </u>	TR
v (veh/h)	9	7	17		17	10		11
C (m) (veh/h)	441	650	147		533	99		404
	0.02	0.01	0.12		0.03	0.10		0.03
95% queue length	0.06	0.03	0.12		0.00	0.33	<u> </u>	0.03
Control Delay (s/veh)	13.3	10.6	32.7					
					12.0	45.4		14.2
	В	В	D		В	E	l	В
Approach Delay (s/veh)				22.3		· ·	29.0	
Approach LOS opyright © 2010 University of Fi				С			D	

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## **APPENDIX B**

**TRAFFIC COUNTS** 

Site: TC12066 12/6/2012 Thursday				24 Hour Total	12589	00:01 - 00:00	4	12 Hour Count 5055	Peak Hour 06:15			ractor 0.90		<u>12:00 - 00:00</u>	12 Hour Count 7534			Peak Volume 1040	Factor 0.90																									
			181			144				113			162				154			190				420			670	0			209			633			101	TAC			615			
้อ			46	61	¥ 5	41	4	: 8	33	32		D (M	38	52	አ	36	36	4 L 4	4 6	23	48	47.	62	98	80	106	3V1	170	177	187	183	174	186	154	154	176	149	82 67	143	160	136	156	168	CCT
24 Hour Volume, per Channel	NB	Interval Start	23:00	23:15	23:30	12/2012 00:00	17/1/2012 00:15 00:15	00:30	00:45	01:00	01115	01:50	02:00	02:15	02:30	02:45	03:00	03:15	02:20	00.40	04:15	04:30	04:45	02:00	05:15	05:30	00.20	06:15	06:30	D6:45	00:20	07:30	07:45	08:00	08:15	08:30	08:45	00:50	02.00	09:45	10:00	10:15	10:30	C1.01
			645			676	200			752			954				971			101	TINT			086			077	n+-		44444	460			293				167			210			
Street			162	154	171	724	156	200	146	162	178	206	242	207	269	236	230	214	301	272	677 666	277	239	290	234	242	2.14	201	170	154	126	116	8	92	7S	64	62	47	2.6	76	60	54	4 (	70
: 59th Avenue : N. of Van Buren Street		Interval Start	11:00	11:15	11:30	00.61	12.15	12:30	12:45	13:00	13:15	13:30	14:00	14:15	14:30	14:45	15:00	15:15	15:30	00+91		16:30	16:45	17:00	17:15	17:30	C+:/T	18:15	18:30	18:45	19:00	19:15	19:45	20:00	20:15	20:30	20:45	21:00	02.14	21:45	22:00	22:15	22:30	C+1:77
Street Location																																									1			

United Civil Group 2803 N. 7th Avenue Phoenix, AZ 85007

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Site: TC12066 12/6/2012 Thursday			<b>24 HOUF FOLM</b> 12827	00:00 - 12:00					ractor U.XY		<u>o</u>	12 Hour Count 6268	Peak Hour 13:00																										
		175		124			136			155			256			227	6/4			846			650	100			583			831			597			509	000		*
le		39 36	56	46	32	18	40	35	0 %	34	ମ୍ ବ	40 40	38	62	28 22	18	0000	138	171	122	174	83 S	202	218	263	280	231	259	280	244	206	182	152	125	142	0/T	261	146	166
24 Hour Volume, per Channel	SB Interval Start	23:00	23:30	12/7/2012 00:00	00:15	00:30	01:00	01:15	01:45	02:00	02:15	02:50	03:00	03:15	03:30	03:45	04:00	04:30	04:45	02:00	05:15	05:30	C+: CD	06:15	06:30	06:45	07:00 02:1E	02:30	07:45	08:00	08:15	06:50	00:60	09:15	09:30	C+:60	10.15	10:30	10:45
		581		657			780			755			714	-			643			674				70C		****	455			325			300				177		
tren Street		153 138	140	144	174	166	204	188	204 184	174	211	180	198	158	188	170	166	7CT	157	180	180	160		156	161	140	136	120	83	84	82	0/ 68	78	70	18 1	7/	90	99	41
: 59th Avenue : N. of Van Buren Street	Interval Start	11:00	11130	12:00	12:15	12:30	13:00	13:15	13:45	14:00	14:15	14:30	15:00	15:15	15:30	15:45	16:15	CT:OT	16:45	17:00	17:15	17:30	10-01	18:15	18:30	18:45	19:00	19:30	19:45	20:00	20:15	20:02	21:00	21:15	21:30	C4:TZ	22:00	22:30	22:45
Street Location																																							

United Civil Group 2803 N. 7th Avenue Phoenix, AZ 85007

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Site: TC12066 12/18/2012 Tuesday				24 Hour Total		TUSDO	00:00 - 12:00				Peak Volume 719	Factor 0.97			12:00 - 00:00	12 Hour Count 5839			Peak Volume 952																											
			144	4			104			601	Ì			111				190			100	577			338				589			690				502				463			525			
	e factor 0.500)		\$2	202	28	34	40	24	22	24	25	38	22	32	ក្ត	34	22	23	32	20 0	24	2	50	75	54	101	78	105	128	139	147 175	180	186	178	146	126	138	116	122	110	CT1	126	123	134	134	134
	24 Hour Volume, per Channel (Volume factor 0.500)	NB Interval Start		22:15	22:30	22:45	23:00	23:15	23:30	00-00 C10C/01/C1		00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	00.60	20100 11100	05:50	03:45	04:00	04:15	04:30	04:45	02:00	05:15	05:30	06:00	06:15	06:30	06:45	02:00	07:15	07:30	07:45	08:00	00-80	06:30	00:60	09:15	05:30	09:45
	24 Hour V		504				682			753	2		1	811				870			000	160			670				609			114	1			229				181			160			
Street			C 7 1	441	164	154	169	185	173	176	194	181	202	209	158	218	226	204	180	230	007	Į į	741	201	204	166	148	152	138	185	152	103	120	86	90	72	54	42	61	6 V	4 0 0	0.4	46	34	42	38
: 59th Avenue : S. of Van Buren Street		Interval Start	10:00 VOI 0001	10:15	10:30	10:45	11:00	11:15	11:30	11:45	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	C+:+T	21.51	02.71	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	61107 66-04	20:45	21:00	21:15	21:30	21:45
Street Location																																														

Site: TC12066 12/18/2012 Tuesday			24 Hour Total	10492	00:00 - 12:00					Factor 0.80		<u>12:00 - 00:00</u>	12 Hour Count 5374				Factor 0.84																								
		143			115			77			166			104	707			413			688				768			650			587				451			164			
factor 0.500)		28	27	<b>†</b> 4	39	28	26 C	18	16	7	52	40	32	42	1	i ŭ	8 8	50	2	116	100	110	228	250	146	1/9	244	152	152	197 197	166	149	150	122	07.00	128	139	118	114	851	
Hour Volume, per Chappel (Volume factor 0.500)	SB Interval Start	23:00	23:15	23:45	12/19/2012 00:00	00:15	00:30	00:10	01:15	01:30	02:00	02:15	02:30	54:20 54:20	03:15	03:30	03:45	04:00	04:15	04:30	02:00	05:15	05:30	05:45	06:00	06115	06:50 D6:45	02:00	07:15	02:70	08:00	08:15	08:30	08:45	00:50	02:60	09:45	00:01	10:15	10:30	01-04
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e ren Street		108	155	124	124	143	144 222	158	1.55	170	142	150	126	151	707	160	138	158	162	1/1 135	121	156	146	141	98	161	148 148	120	108	74	70	58	78	72	/Q	2 20	58	46	44 84	<b>‡</b> ć	4.E.
: 59th Avenue : S. of Van Buren Street	Interval Start	11:00	11:15	11:45	12:00	12:15	12:30	13:00	13:15	13:30	14:00	14:15	14:30	04141		15:30	15:45	16:00	16:15	16:30	17:00	17:15	17:30	17:45	18:00	51121	18:45	19:00	19:15	19:45	20:00	20:15	20:30	20:45	00:12	21:30	21:45	22:00	22:15	22.22	CT++32
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12/6/2012 Thursday				Combined	192	166		358				Combined		06:00	50		0.63		Combined	15.20	0000	65	0.68						
			Volume Totals	SB	130 (67.7%)	109 (65.7%)		239 (66.8%)		Peak hours	00:00 - 12:00	SB		06:00	35		0.51	12:00 - 00:00	SB	15-45		4	0.69						
			22	NB	00:00 - 12:00 62 (32.3%)	12:00 - 00:00 57 (34.3%)	24 Hours	119 (33.2%)	•	-	õ	NB	Started	08:30	Volume 19	Factor	0.48	÷	NB	Started 15-15	Volume	24	Factor 0.32						
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	24 Hour Volume	NB	00	000													0 m (												Q 17
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Site: TC12066 12/6/2012 Thursday				24 Hour Total	15626		N	12 Hour Count 6126	Peak Hour 07:00						12 Hour Count 9500	Peak Hour 17:00			Factor U.91																									
			290			200	077			154			103			102	2			185			040	047			547			824	1			1014			854				734			
	2		74	66	74	76	0 8	23	50	47	32	5 55	25	35	77	22	242	16	40	8	50	42	ec.	50	f 5	108	86	127	160	158	210	230	226	230	258	243 283	225	181	221	227	188	162	192	
	24 Hour Volume, per Channel	NB Interval Start	22:00	22:15	22:30	22:45	23:15	23:30		12/7/2012 00:00	61:00 05:00	00:45	01:00	01:15	01130	00.00	02:15	02:30	02:45	03:00	03:15	03:30	00-10	04:00	05.40	04:45	02:00	05:15	05:30	00.90	06:15	06:30	06:45	02:00	07:15	07:30	00.80	08:15	08:30	08:45	00:60	09:15	02:60	
			637				731		:	789			826			1061	TCOT			1071			0001	1238			1307			33++	CC11			665			480	2			402			
) Street			118	161	168	190	169	180	193	176	194	232	206	186	361	230	502 856	258	350	257	256	250	308	288	040	2962	302	360	296	040 040	9/7 6(%	800	254	194	166	13/	130	108	126	112	110	107	86	<i>/</i> 0
: 67th Avenue : N. of Van Buren Street		Intenval Start	10-00 F	10:15	10:30	10:45	11:00	11:30	11:45	12:00	12:15	12:30	13:00	13:15	13:30	15:45	14:00	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:45	17:00	17:15	17:30	1/:45	18-15	18:30	18:45	00:61	19:15	19:30	00-0C	20:15	20:30	20:45	21:00	21:15	21:30	C+: T?
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# Site: TC12066

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Site: TC12066 12/6/2012 Thursday			24 Hour Total	15045	00:00 - 12:00	12 Hour Count 6641						2	12 Hour Count 8404	Peak Hour 17:30			Factor 0.88																								
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24 Hour Volume, per Channel	SB Interval Start	22:00	22:15	22:45	23:00	23:30		12/7/2012 00:00	51:00 05:00	00:45	00:10	01:15	01:30	02:00	02:15	02:30	02:45	03:00	03:15	03:50 D3:45	04:00	04:15	04:30	04:45	02:00	GT:SD 02-30	05:45	00:00	06:15	06:50	02:00	07:15	07:30	01:45	08:15	08:30	08:45	00:60	51:60	00:45	01-10X
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n Street		129	134	150	174	160 167	168	197	921 164	186	198	194	191	216	242	198	248	232	210	232	247	222	223	208	242	240	218	250	282	214	171	186	162	137	157	152	129	142	611	711	>>>
: 67th Avenue : N. of Van Buren Street	Interval Start	10:00	10:15	10:45	11:00	11:30	11:45	12:00	12:21	12:45	13:00	13:15	13:30	14:00	14:15	14:30	14:45	15:00	15:15	15:45	16:00	16:15	16:30	16:45	17:00	CT:/T	17:45	18:00	18:15	18:45	19:00	19:15	19:30	C4:61	20:15	20:30	20:45	21:00		05:12	
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Site: TC12066 12/6/2012 Thursday

Street Location

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    12           10:01         7         20         4         1         2         2         8         WB         Commoned           10:05         4         1         2         1         6         1         1         6         4         12           11:15         2         2         2         2         2         2         1         9         9         9         9         9         1         10         1         10         1         10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         22         22:10         3         1         6         4         12           10:00         7         20         4         9         11         22         22:15         1         6         4         12           10:01         7         20         4         9         11         5         22:16         0         1         6         4         12           10:00         7         20         4         1         1         6         4         12         7         22:16         0         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1<td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Volume Totals           0000         7         20         4         9         11         22         22         4         12           0010         2         2         7         2         2         4         12         4         12           0101         2         2         2         2         2         1         6         1         10         0010         12.00           0101         2         2         2         2         2         2         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         VB         Combined           01001         7         20         4         9         11         23         6         1         6         1         6         1         6         1         7         0         00:00 - 12:00         7         0         0         10:00 - 12:00         3         6         1         6         4         12         7         00:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         7         22:3:30         1         4         0         6         1         10         0         10:00 - 12:00         7         207         13:00         13:00         13:00         13:00         13:00         13:00         11:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Notime Totals         Volume Totals           00001         7         20         4         9         11         23         5         1         6         1         6         4         12           0101         2         2         2         3         6         1         6         4         12         0010-12.00         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         No         Combined           0100         7         20         4         9         11         29         4         20         4         12         20         4         12         20         4         12         20         4         12         20         4         12         2         2         4         12         2         4         12         2         2         10         2         2         10         2         2         10         10         12         10         12         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10     
   10         10         12         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined         Nolume Totals         Combined           0100         7         20         4         9         11         29         4         9         10         20         4         9         10         20         4         12         29         4         4         12         29         4         12         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10  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       0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Eb         WB         Combined         Interval Start         Eb         WB         Combined           1010         7         20         4         9         11         29         1         22:00         3         6         1         6         4         12           1010         7         20         4         9         11         29         22:00         3         6         1         6         4         12           1010         2         1         9         11         29         22:00         3         6         1         6         4         12           1100         4         1         7         22:00         1         4         0         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           0100         7         20         4         9         11         28         4         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         <t< td=""><td>Start         E5         WB         Combined         Interval Start         EB         WB         Combined           0101         7         20         4         9         11         25         3         6         1         6         4         12           0101         7         20         4         9         11         25         7         8         Combined           0101         2         2         7         3         1         1         1         0         120         1         8         WB         Com           01010         4         1         4         1         4         1         4         1         8         4         1         8         Com         100         120         100         120         100         120         100         120         100         120         100         120         120         100         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined           0100         7         20         4         9         11         20         V         Volume Totals         Volume Totals           0100         7         20         4         9         11         20         Volume Totals         Volume Totals           0100         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         1         4         2         4         0         00:00-12:00         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Start         E         WB         Combined         Interval Start         E         WB         Combined           0101         7         2         0         4         3         1         20         4         1         4         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         Ep         WB         Contined         Interval Start         Ep         WB         Contined         Mutur Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Sart         Ep&lt;         Ng         Combined         Interval Sart         Ep         Ng         Combined           0000         7         2         4         9         1         25         5         1         6         Notime Totals         7         0         0         Notime Totals         7         0         0         0         0         0         0        
0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20         9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value</td><td>Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an</td><td>Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         <td< td=""></td<></td></td></t<></td></td></td></td></td> | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:10         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:15         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:15         2         2         2         1         1         6         4         12         Kolume Totals           10:30         2         2         2         1         1         1         6         4         12         Kolume Totals           10:30         2         2         2         1         1         6         2         1         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:15         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:15         7         20         4         9         11         29         22:15         1         6         4         12           10:16         2         2         2         1         6         1         6         4         12           10:15         2         2         2         1         4         1         6         4         12           11:10         4         1         4         0         5         23:15         2         4         120         -12:00           11:130         4         1         1         4         0         5         1         10         207 (73:1%)         76 (26.9%)           11:130         5         17         4         10         0         207 (73:1%)         76 (26.9%)           11:130         5         17         4         1         1         10 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:15         7         20         4         9         11         29         22:15         1         6         4         12           10:15         7         20         4         9         11         29         22:15         1         6         4         12           10:16         2         2         2         1         6         1         6         4         12           10:15         2         2         2         1         6         1         10         20:06-12:00           10:16         4         12         4         14         8         26         23:15         1         4         10         20:07-12:00           11:150         2         1         4         0         6         1         10         20:07-12:00         20:07         20:07-12:00           11:150         2         1         4         0         6         1         10         20:07-01:00         20:07:00         20:07:00         20:07:00         20:07:00         20:07:00         20:07:00         20:07:00 </td <td>StartEBWBCombinedInterval StartEBWBCombined10:1572049112922:00361641210:1622236164127Olume Totals10:1622236162128MB10:1622222:151162128MB10:1641241482623:15241000:00-12:0011:152517623114012/7/201203:00020776.(26.9%)11:15517623114012/7/201203:00022412:0011:150517623114012/7/201206:00022412:0012:165114012/7/201206:00022412:0000:0012:165114012/7/201206:00022412:0000:0012:165114012/7/201206:00022412:0000:0012:16511501200022412:0000:0012:1651150&lt;</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:15         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:16         7         20         4         9         11         29         22:15         1         6         4         12           10:15         7         20         4         14         8         26         1         6         4         12           10:15         2         2         1         4         1         6         4         12         8         Volume Totals           10:16         4         12         4         14         8         26         1         10         00:00 - 12:00         76 (26.9%)         76 (26.9%) 
       76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:10         7         20         4         9         11         29         22:15         1         6         4         12           10:15         7         20         4         9         11         29         22:15         1         6         4         12         Kolume Totals           10:15         2         2         3         6         1         6         4         12         8         WB           10:15         2         2         2         3         6         1         6         4         12           11:10         4         1         7         22:30         1         4         0         0         1         10         207 (73.1%)         76 (26.9%)           11:130         2         1         4         0         1         4         0         201 (73.1%)         76 (26.9%)           11:130         2         1         4         0         1         10         207 (73.1%)         76 (26.9%)           11:130         2         1         4         &lt;</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:10         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:10         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:10         2         2         2         2         1         6         4         12         8         Volume Totals           10:10         4         12         3         7         23:10         1         4         0         0         0         0         0         12         7         76         (26.9%)         76         (26.9%)         16         12         9         11         10         12         10         12         10         10         10         12         10         10         10         10         10         10         11         10         10         10         10         10         10         10         10         10         10         10</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         29         1         29         1         29         1         20         4         12         4         12         4         12         7         0         6         1         6         4         12         2         1000         1         6         4         12         7         7         1000         1         6         4         12         7         7         7         1000         1000         1         1         6         4         12         7         7         1000         1000         1         1         6         4         12         7         7         1000         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         <t< td=""><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         29         1         29         1         29         1         20         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100</td></t<><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         23         6         1         6         4         12           10:00         7         20         4         9         11         23         6         1         6         4         12           10:01         7         20         4         1         2         2         8         WB         Commoned           10:05         4         1         2         1         6         1         1         6         4         12           11:15         2         2         2         2         2         2         1         9         9         9         9         9         1         10         1         10         1         10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         22         22:10         3         1         6         4         12           10:00         7         20         4         9         11         22         22:15         1         6         4         12           10:01         7         20         4         9         11         5         22:16         0         1         6         4         12           10:00         7         20         4         1         1         6         4         12         7         22:16         0         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1<td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Volume Totals           0000         7         20         4         9         11         22         22         4         12           0010         2         2         7         2         2         4         12         4         12           0101         2         2         2         2         2         1         6         1         10         0010         12.00           0101         2         2         2         2         2         2         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         VB         Combined           01001         7         20         4         9         11         23         6         1         6         1         6         1         6         1         7         0         00:00 - 12:00         7         0         0         10:00 - 12:00         3         6         1         6         4         12         7         00:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         7         22:3:30         1         4         0         6         1         10         0         10:00 - 12:00         7         207         13:00         13:00         13:00         13:00         13:00         13:00         11:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Notime Totals         Volume Totals           00001         7         20         4         9         11         23         5         1         6         1         6         4         12           0101         2         2         2         3         6         1         6         4         12         0010-12.00         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10       
 10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         No         Combined           0100         7         20         4         9         11         29         4         20         4         12         20         4         12         20         4         12         20         4         12         20         4         12         2         2         4         12         2         4         12         2         2         10         2         2         10         2         2         10         10         12         10         12         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         10         12         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined         Nolume Totals         Combined           0100         7         20         4         9         11         29         4         9         10         20         4         9         10         20         4         12         29         4         4         12         29         4         12         20         10         20         10         20         10         20         10         20         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0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Eb         WB         Combined         Interval Start         Eb         WB         Combined           1010         7         20         4         9         11         29         1         22:00         3         6         1         6         4         12           1010         7         20         4         9         11         29         22:00         3         6         1         6         4         12           1010         2         1         9         11         29         22:00         3         6         1         6         4         12           1100         4         1         7         22:00         1         4         0         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           0100         7         20         4         9         11         28         4         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         <t< td=""><td>Start         E5         WB         Combined         Interval Start         EB         WB         Combined           0101         7         20         4         9         11         25         3         6         1         6         4         12           0101         7         20         4         9         11         25         7         8         Combined           0101         2         2         7         3         1         1         1         0         120         1         8         WB         Com           01010         4         1         4         1         4         1         4         1         8         4         1         8         Com         100         120         100         120         100         120         100         120         100         120         100         120         120         100         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined           0100         7         20         4         9         11         20         V         Volume Totals         Volume Totals           0100         7         20         4         9         11         20         Volume Totals         Volume Totals           0100         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         1         4         2         4         0         00:00-12:00         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Start         E         WB         Combined         Interval Start         E         WB         Combined           0101         7         2         0         4         3         1         20         4         1         4         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         Ep         WB         Contined         Interval Start         Ep         WB         Contined         Mutur Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals   
     Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Sart         Ep&lt;         Ng         Combined         Interval Sart         Ep         Ng         Combined           0000         7         2         4         9         1         25         5         1         6         Notime Totals         7         0         0         Notime Totals         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20         9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value</td><td>Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an</td><td>Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         <td< td=""></td<></td></td></t<></td></td></td></td> | StartEBWBCombinedInterval StartEBWBCombined10:1572049112922:00361641210:1622236164127Olume Totals10:1622236162128MB10:1622222:151162128MB10:1641241482623:15241000:00-12:0011:152517623114012/7/201203:00020776.(26.9%)11:15517623114012/7/201203:00022412:0011:150517623114012/7/201206:00022412:0012:165114012/7/201206:00022412:0000:0012:165114012/7/201206:00022412:0000:0012:165114012/7/201206:00022412:0000:0012:16511501200022412:0000:0012:1651150< | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:15         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:16         7         20         4         9         11         29         22:15         1         6         4         12           10:15         7         20         4         14         8         26         1         6         4         12           10:15         2         2         1         4         1         6         4         12         8         Volume Totals           10:16         4         12         4         14         8         26         1         10         00:00 - 12:00         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%)         76 (26.9%) | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:10         7         20         4         9         11         29         22:15         1         6         4         12           10:15         7         20         4         9         11         29         22:15         1         6         4         12         Kolume Totals           10:15         2         2         3         6         1         6         4         12         8         WB           10:15         2         2         2         3         6         1         6         4         12           11:10         4         1         7         22:30         1         4         0         0         1         10         207 (73.1%)         76 (26.9%)           11:130         2         1         4         0         1         4         0         201 (73.1%)         76 (26.9%)           11:130         2         1         4         0         1         10         207 (73.1%)         76 (26.9%)           11:130         2         1         4         < | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:10         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:10         7         20         4         9         11         29         22:00         3         6         1         6         4         12           10:10         2         2         2         2         1         6         4         12         8         Volume Totals           10:10         4         12         3         7        
23:10         1         4         0         0         0         0         0         12         7         76         (26.9%)         76         (26.9%)         16         12         9         11         10         12         10         12         10         10         10         12         10         10         10         10         10         10         11         10         10         10         10         10         10         10         10         10         10         10 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         29         1         29         1         29         1         20         4         12         4         12         4         12         7         0         6         1         6         4         12         2         1000         1         6         4         12         7         7         1000         1         6         4         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       100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100</td></t<> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         23         6         1         6         4         12           10:00         7         20         4         9         11         23         6         1         6         4         12           10:01         7         20         4         1         2         2         8         WB         Commoned           10:05         4         1         2         1         6         1         1         6         4         12           11:15         2         2         2         2         2         2         1         9         9         9         9         9         1         10         1         10         1         10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         22         22:10         3         1         6         4         12           10:00         7         20         4         9         11         22         22:15         1         6         4         12           10:01         7         20         4         9         11         5         22:16         0         1         6         4         12           10:00         7         20         4         1         1         6         4         12         7         22:16         0         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1<td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Volume Totals           0000         7         20         4         9         11         22         22         4         12           0010         2         2         7         2         2         4         12         4         12           0101         2         2         2         2         2         1         6         1         10         0010         12.00           0101         2         2         2         2         2         2         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         VB         Combined           01001         7         20         4         9         11         23         6         1         6         1         6         1         6         1         7         0         00:00 - 12:00         7         0         0         10:00 - 12:00         3         6         1         6         4         12         7         00:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         7         22:3:30         1         4         0         6         1         10         0         10:00 - 12:00         7         207         13:00         13:00         13:00         13:00         13:00         13:00         11:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Notime Totals         Volume Totals           00001         7         20         4         9         11         23         5         1         6         1         6         4         12           0101         2         2         2         3         6         1         6         4         12         0010-12.00         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         No         Combined           0100         7         20         4         9         11         29         4         20         4         12         20         4         12         20         4         12         20         4         12         20         4         12         2         2         4         12         2         4         12         2         2         10         2         2         10         2         2         10         10         12         10         12         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         10         12         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined         Nolume Totals         Combined           0100         7         20         4         9         11         29         4         9         10         20         4         9         10         20         4         12         29         4         4         12         29         4         12         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20    
    10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         20         10         20         20         10         20         20         10         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Notimet Start         EB         WB         Combined           0105         7         20         4         9         11         20         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Eb         WB         Combined         Interval Start         Eb         WB         Combined           1010         7         20         4         9         11         29         1         22:00         3         6         1         6         4         12           1010         7         20         4         9         11         29         22:00         3         6         1         6         4         12           1010         2         1         9         11         29         22:00         3         6         1         6         4         12           1100         4         1         7         22:00         1         4         0         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           0100         7         20         4         9         11         28         4         10         10         10      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Combined           0101         7         20         4         9         11         25         3         6         1         6         4         12           0101         7         20         4         9         11         25         7         8         Combined           0101         2         2         7         3         1         1         1         0         120         1         8         WB         Com           01010         4         1         4         1         4         1         4         1         8         4         1         8         Com         100         120         100         120         100         120         100         120         100         120         100         120         120         100         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined           0100         7         20         4         9         11         20         V         Volume Totals         Volume Totals           0100         7         20         4         9         11         20         Volume Totals         Volume Totals           0100         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         1         4         2         4         0         00:00-12:00         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Start         E         WB         Combined         Interval Start         E         WB         Combined           0101         7         2         0         4         3         1         20         4         1         4         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         Ep         WB         Contined         Interval Start         Ep         WB         Contined         Mutur Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Sart         Ep&lt;         Ng         Combined         Interval Sart         Ep         Ng         Combined           0000         7         2         4         9         1         25         5         1         6         Notime Totals         7         0         0         Notime Totals         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20     
   9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value</td><td>Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an</td><td>Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         <td< td=""></td<></td></td></t<></td></td></td> | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         29         1         29         1         29         1         20         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         23         6         1         6         4         12           10:00         7         20         4         9         11         23         6         1         6         4         12           10:01         7         20         4         1         2         2         8         WB         Commoned           10:05         4         1         2         1         6         1         1         6         4         12           11:15         2         2         2         2         2         2         1         9         9         9         9         9         1         10         1         10         1         10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           10:00         7         20         4         9         11         22         22:10         3         1         6         4         12           10:00         7         20         4         9         11         22         22:15         1         6         4         12           10:01         7         20         4         9         11         5         22:16         0         1         6         4         12           10:00         7         20         4         1         1         6         4         12         7         22:16         0         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Volume Totals           0000         7         20         4         9         11         22         22         4         12           0010         2         2         7         2         2         4         12         4         12           0101         2         2         2         2         2         1         6         1         10         0010         12.00           0101         2         2         2         2         2         2         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         VB         Combined           01001         7         20         4         9         11         23         6         1         6         1         6         1         6         1         7         0         00:00 - 12:00         7         0         0         10:00 - 12:00         3         6         1         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     13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Notime Totals         Volume Totals           00001         7         20         4         9         11         23         5         1         6         1         6         4         12           0101         2         2         2         3         6         1         6         4         12         0010-12.00         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         No         Combined           0100         7         20         4         9         11         29         4         20         4         12         20         4         12         20         4         12         20         4         12         20         4         12         2         2         4         12         2         4         12         2         2         10         2         2         10         2         2         10         10         12         10         12         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         10         12         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10</td> <td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined         Nolume Totals         Combined           0100         7         20         4         9         11         29         4         9         10         20         4         9         10         20         4         12         29         4         4         12         29         4         12         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         20         10         20         20         10         20         20         10         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Notimet Start         EB         WB         Combined           0105         7         20         4         9         11         20         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Eb         WB         Combined         Interval Start         Eb         WB         Combined           1010         7         20         4         9         11         29         1         22:00         3         6         1         6         4         12           1010         7         20         4         9         11         29         22:00         3         6         1         6         4         12           1010         2         1         9         11         29         22:00         3         6         1         6         4         12           1100         4         1         7         22:00         1         4         0         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00</td><td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           0100         7         20         4         9         11         28         4         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         <t< td=""><td>Start         E5         WB         Combined         Interval Start         EB         WB         Combined           0101         7         20         4         9         11         25         3         6         1         6         4         12           0101         7         20         4         9         11         25         7         8         Combined           0101         2         2         7         3         1         1         1         0         120         1         8         WB         Com           01010         4         1         4         1         4         1         4         1         8         4         1         8         Com         100         120         100         120         100         120         100         120         100         120         100         120         120         100         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined           0100         7         20         4         9         11         20         V         Volume Totals         Volume Totals           0100         7         20         4         9         11         20         Volume Totals         Volume Totals           0100         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         1         4         2         4         0         00:00-12:00         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Start         E         WB         Combined         Interval Start         E         WB         Combined           0101         7         2         0         4         3         1         20         4         1         4         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0     
   0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         Ep         WB         Contined         Interval Start         Ep         WB         Contined         Mutur Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Sart         Ep&lt;         Ng         Combined         Interval Sart         Ep         Ng         Combined           0000         7         2         4         9         1         25         5         1         6         Notime Totals         7         0         0         Notime Totals         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20         9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value</td><td>Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an</td><td>Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         <td< td=""></td<></td></td></t<></td></td> | Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Volume Totals           0000         7         20         4         9         11         22         22         4         12           0010         2         2         7         2         2         4         12         4         12           0101         2         2         2         2         2         1         6         1         10         0010         12.00           0101         2         2         2         2         2         2         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined         VB         Combined           01001         7         20         4         9         11         23         6         1         6         1         6         1         6         1         7         0         00:00 - 12:00         7         0         0         10:00 - 12:00         3         6         1         6         4         12         7         00:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         0         0         10:00 - 12:00         7         7         22:3:30         1         4         0         6         1         10         0         10:00 - 12:00         7         207         13:00         13:00         13:00         13:00         13:00         13:00         11:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13:00         13: | Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Interval Start         EB         WB         Combined
        Notime Totals         Volume Totals           00001         7         20         4         9         11         23         5         1         6         1         6         4         12           0101         2         2         2         3         6         1         6         4         12         0010-12.00         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined         No         Combined           0100         7         20         4         9         11         29         4         20         4         12         20         4         12         20         4         12         20         4         12         20         4         12         2         2         4         12         2         4         12         2         2         10         2         2         10         2         2         10         10         12         10         12         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         12         10         10         10         12         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10 | Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined         Nolume Totals         Combined           0100         7         20         4         9         11         29         4         9         10         20         4         9         10         20         4         12         29         4         4         12         29         4         12         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         10         20         20         10         20         20         10         20         20         10         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined         Notimet Start         EB         WB         Combined           0105         7         20         4         9         11         20         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>Sart         Eb         WB         Combined         Interval Start         Eb         WB         Combined           1010         7         20         4         9         11         29         1         22:00         3         6         1         6         4         12           1010         7         20         4         9         11         29         22:00         3         6         1         6         4         12           1010         2         1         9         11         29         22:00         3         6         1         6         4         12           1100         4         1         7         22:00         1         4         0         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00</td> <td>Start         EB         WB         Combined         Interval Start         EB         WB         Combined           0100         7         20         4         9         11         28         4         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         <t< td=""><td>Start         E5         WB         Combined         Interval Start         EB         WB         Combined           0101         7         20         4         9         11         25         3         6         1         6         4         12           0101         7         20         4         9         11         25         7         8         Combined           0101         2         2         7         3         1         1         1         0         120         1         8         WB         Com           01010         4         1         4         1         4         1         4         1         8         4         1         8         Com         100         120         100         120         100         120         100         120         100         120         100         120         120         100         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined           0100         7         20         4         9         11         20         V         Volume Totals         Volume Totals           0100         7         20         4         9         11         20         Volume Totals         Volume Totals           0100         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         1         4         2         4         0         00:00-12:00         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Start         E         WB         Combined         Interval Start         E         WB         Combined           0101         7         2         0         4         3         1         20         4         1         4         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         Ep        
WB         Contined         Interval Start         Ep         WB         Contined         Mutur Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Sart         Ep&lt;         Ng         Combined         Interval Sart         Ep         Ng         Combined           0000         7         2         4         9         1         25         5         1         6         Notime Totals         7         0         0         Notime Totals         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20         9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value</td><td>Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an</td><td>Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         <td< td=""></td<></td></td></t<></td> | Sart         Eb         WB         Combined         Interval Start         Eb         WB         Combined           1010         7         20         4         9         11         29         1         22:00         3         6         1         6         4         12           1010         7         20         4         9         11         29         22:00         3         6         1         6         4         12           1010         2         1         9         11         29         22:00         3         6         1         6         4         12           1100         4         1         7         22:00         1         4         0         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00 | Start         EB         WB         Combined         Interval Start         EB         WB         Combined           0100         7         20         4         9         11         28         4         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10 <t< td=""><td>Start         E5         WB         Combined         Interval Start         EB         WB         Combined           0101         7         20         4         9         11         25         3         6         1         6         4         12           0101         7         20         4         9         11         25         7         8         Combined           0101         2         2         7         3         1         1         1         0         120         1         8         WB      
  Com           01010         4         1         4         1         4         1         4         1         8         4         1         8         Com         100         120         100         120         100         120         100         120         100         120         100         120         120         100         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120</td><td>Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined           0100         7         20         4         9         11         20         V         Volume Totals         Volume Totals           0100         7         20         4         9         11         20         Volume Totals         Volume Totals           0100         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         1         4         2         4         0         00:00-12:00         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Start         E         WB         Combined         Interval Start         E         WB         Combined           0101         7         2         0         4         3         1         20         4         1         4         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Start         Ep         WB         Contined         Interval Start         Ep         WB         Contined         Mutur Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume</td><td>Sart         Ep&lt;         Ng         Combined         Interval Sart         Ep         Ng         Combined           0000         7         2         4         9         1         25         5         1         6         Notime Totals         7         0         0         Notime Totals         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<!--</td--><td>Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20         9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value</td><td>Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an</td><td>Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2   
     2         2         2         2         2         2         2         2         2         2         2         2         2         2         <td< td=""></td<></td></td></t<> | Start         E5         WB         Combined         Interval Start         EB         WB         Combined           0101         7         20         4         9         11         25         3         6         1         6         4         12           0101         7         20         4         9         11         25         7         8         Combined           0101         2         2         7         3         1         1         1         0         120         1         8         WB         Com           01010         4         1         4         1         4         1         4         1         8         4         1         8         Com         100         120         100         120         100         120         100         120         100         120         100         120         120         100         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120 | Start         Eb         WB         Combined         Interval Start         Eb         WB         Combined           0100         7         20         4         9         11         20         V         Volume Totals         Volume Totals           0100         7         20         4         9         11         20         Volume Totals         Volume Totals           0100         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         2         4         0         00:00-12:00         Volume Totals         Volume Totals           01110         4         12         2         1         4         2         4         0         00:00-12:00         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume | Start         E         WB         Combined         Interval Start         E         WB         Combined           0101         7         2         0         4         3         1         20         4         1         4         12         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 | Start         Ep         WB         Contined         Interval Start         Ep         WB         Contined         Mutur Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume Totals         Volume | Sart         Ep<         Ng         Combined         Interval Sart         Ep         Ng         Combined           0000         7         2         4         9         1         25         5         1         6         Notime Totals         7         0         0         Notime Totals         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20         9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td> <td>Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value</td> <td>Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td> <td>Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an</td> <td>Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2      
  2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         <td< td=""></td<></td> | Sart         Ea         Wei         Combined         Interval Sart         Ea         Wei         Combined           0000         7         20         9         1         20         2000         7         0         0         0000         7         0         0         0000         7         0         0         0000         7         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 | Bart         Bar         VB         Combined         Interval Sart         Bar value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Combined         Value         Value         Combined         Value         Value         Value | Start         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined         Itervel Sert         Ea         WB         Combined           0101         7         2         2         2         1         2         2         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 | Spr         Ep         WB         Combined         Interol Spr.         Ep         WB         Combined         Monta and and and and and and and and and an | Synt         Bit         WB         Combined         Interval Start         EI         WB         Combined         Mem         Combined           1111         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <td< td=""></td<> |

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: Roosevelt Street : W. of 59th Avenue

Street Location

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Site: TC12066 12/6/2012 Thursday

		Combined		1229	1778	0//T		2007						Combined			<i: th="" u<=""><th></th><th>331</th><th></th><th>0.84</th><th></th><th></th><th>Combined</th><th></th><th>15:15</th><th></th><th>252</th><th></th><th>0.83</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></i:>		331		0.84			Combined		15:15		252		0.83								
	Volume Totals	WB		302 (24.6%)	073 /51 000)	(0/		(%/-04) <221			Peak Hours		<u>00:00 - 12:00</u>	WB			00:TT	1	69		0.64		12:00 - 00:00	WB		15:15		138		0.96								
	ž	B	00:00 - 12:00	927 (75.4%)	12:00 - 00:00 SEE (48 1%)	(0/.T*O+) CCO		1/82 (%5.44)					Ö	83		טומונינת סידי ד	<i: 0<="" td=""><td>Volume</td><td>298</td><td>Factor</td><td>0.85</td><td></td><td>-</td><td>Ð</td><td>Started</td><td>15:45</td><td>Volume</td><td>127</td><td>Factor</td><td>0.79</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></i:>	Volume	298	Factor	0.85		-	Ð	Started	15:45	Volume	127	Factor	0.79								
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Site: TC12066 12/6/2012 Thursday				24 Hour Total	9275	00:00 - 12:00				Peak Volume 1828	Factor 0.94		17.00 00.00	2		Peak Hour 12:30			Factor 0.95																									
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rreet enue			80	06	45 <u>5</u>	78	53	108	100	30 105	96	104	80	91 91	26	40 06	76	6	94	78	103	88	0/	8 5	2 08	3 23	66	58	23 (	27	2 8 2	ີ ຄື	36	24	32	¥ ;	77	8 C	20	22	18	თ	16	77
: Van Buren Street : E. of S9th Avenue		Interval Start	11:00	11:15	11:30	12:00	12:15	12:30	12:45	13-15	13:30	13:45	14:00	14:15	14:30 14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	10:43		02-21	17:45	18:00	18:15	18:30	18:45	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:15	21:30	21:45	22:00	22:15	22:30	04177
Street Location																																												

Site: TC12066 12/6/2012 Thursday			1 Harry Tarte	24 NOUF LOUAL 2275		<u>00:00 - 12:00</u>	12 Hour Count 5463						2	12 Hour Count 2862	Peak Hour 13:30			Factor 0.91																							
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-			81 C	21	14	9 Y	16	¢	с Ц	a :	19	6	4 (	» :	10	14	4	و	14	9	4 U	24	23	30	48	ទ	70	199	226	301	443 643	408	442	402 376	375	224	172	04T	72 88	61	73
24 Hour Volume, per Channel	EB	Interval Start	22:00	22:30	22:45	23:00	23:30	23:45	12/7/2012 00:00	21:00 02:00	00:45	01:00	01:15	01:30	02:00	02:15	02:30	02:45	03:00	03:15	12:50 73:45	04:00	04:15	04:30	04:45	02:00	05:30	05:45	06:00	06:15	06:45	02:00	07:15	07:30	08:00	08:15	08:30	08:43	10.60	02:60	09:45
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st ue			51	78	78	74	74	86	62	80	5 6	06	88	101	18	106	94	102	82	82	χΩ	-20	: 56	79	87	92 21	9 F	4 89	64	83	37 29	52	41	89 88 89	26	48 1	e S	07	8 8	3 87	20
: Van Buren Street : W. of 59th Avenue		Interval Start	10:00	10:30	1.0:45	11:00	21:11 05:11	11:45	12:00	12:15	12:45	13:00	13:15	13:30	14:00	14:15	14:30	14:45	15:00	15:15	15:50	16:00	16:15	16:30	16:45	17:00	CI:/1	17:45	18:00	18:15	18:45	19:00	19:15	19:30	20:00	20:15	20:30	C1:42	21:00	21:30	21:45
Street Location																																									

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Site: TC12066 12/6/2012 Thursday				24 Hour Total	2008	00-00 - 10-00	N.		Peak Hour 10:15			Factor U.S.T		12:00 - 00:00	12 Hour Count 5872			Peak Volume 1328																											
			96			62	2		****	23			44				29			67	ŝ			87				153			216			110	<b>UU</b>			272				279			
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	24 Hour Volume, per Channel	WB Interval Start	22:00	22:15	22:30	23:00	23:15	23:30		12/7/2012 00:00	S1:00	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	00-00	21.50	05-50	03:45	04:00	04:15	04:30	04:45	02:00	05:15	05:30	06:00	06:15	06:30	00:45	00:/D	CT://)	07-45	08:00	08:15	08:30	08:45	00:60	21:50	05:60	C#:20
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iet nue			48	82	44	°/ 88	82	66	78	80	48	00	105	84	106	104	16	107		007	+++ 	174	212	213	276	268	334	294	330	370	284	224	163	130	7 6	с С	3 2	40	38	38	36	46	t i	80 00 M	00
: Van Buren Street : W. of 59th Avenue		Interval Start	10:00	10:15	10:30	11:00	11:15	11:30	11:45	12:00	51:21 05-51	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	04:41 1	10100		15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	18:00	18:15	18:30	18:45	19:01	CT:AT	24.01	20:00	20:15	20:30	20:45	21:00	21:15	21:30	C+175
Street Location																																													

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Phoenix, AZ 85007	Site: TC12066	12/12/2012 Wednesday	24 Hour Volume, per Channel (Volume factor 0.500)	WB	Interval Start	16 86		23:45 24 9906		17 17	00:30 11 12 Hour Count 2575		01:15 18 Peak Volume		10 FIGULUI		<u>12:00 - 00</u>	02:45 20	16 75 Deal Hour	22 19	03:45 18 PEAK VOIUME					05:15 31	05:30 56 25-45 55		TC 00:00	06:30 52 52	60	07:10		07:45 78		06:30 03:30 103	08:45 76				130 13:00 84 316	74	
			24 Hour Volum			452			429			505			965	}			1040			1488			1775			684	t oo			062			164			154			130		
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	: Van Buren Street	: E. of 59th Avenue			Interval Start	11:00	41:11 02:11	11:45	12:00	12:15	12:30	13:00	13:15	13:30	14:00	14:15	14:30	14:45	15:00	15:30	15:45	16:00	16:15	16:45	17:00	17:15	17:30	18-00	18:15	18:30	18:45	19:15	19:30	19:45	20:00	20:30	20:45	21:00	02:12	21:45	22:00	22:15	
	Street	Location																																									

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This report and/or data was funded in part through grant[s] from the Federal Highway Administration and/or Federal Transit Administration, U.S. Department of Transportation. ... more

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Location ID	33551					M	POID			
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Located On	Van Buren St									
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To Road	43rd Ave									
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Year Travel Demar Model Year VOLUME CO	nd Model Model AADT UNT Date	АМ РНV	AM PPV Grap	MD PHV hs/Rpts Total	MD PPV	РМ РНV	PM PP			
Year Travel Demar Model Year VOLUME CO	nd Model Model AADT UNT	АМ РНV	AM PPV Graph	MD PHV	MD PPV VOLUN	РМ РНV	PM PP	V NT		
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This report and/or data was funded in part through grant[s] from the Federal Highway Administration and/or Federal Transit Administration, U.S. Department of Transportation. ... more

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/01. ক ক ক	2003 1998 Vet Deman Model Year UME COL M S S Th W T T ED	34,014 42,852 d Model Model AADT INT Date lon 2/7/20 run 2/6/20 nu 1/11/20 ed 1/10/20 ue 1/14/20	AM PH 11 11 07 007 03 Pace	V AM P G Int 15 15 15 15 15	PV MD PHV raphs/Rpts Total 49,128 48,936 49,986 49,552 34,383	MD PP VOLI Ye 20 20 20 CLAS	UME TREN ar 11 07 03 SSIFICATI Da Mon 2/	I (4) Anr ON te 7/2011	ual Grow 3% 10% -5% Gr Int 15	aphs/Rots) Total 49,128
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VOL Th Th Th Th SPE	2003 1998 /et Deman Model Year UME COL UME COL M S S Th W Th W Th ED Date	34,014 42,852 d Model Model AADT INT Date Ion 2/7/20 run 2/6/20 nu 1/11/20 ed 1/10/20 ed 1/10/20 le 1/14/20	AM PH 11 11 07 007 03 Pace	V AM P G Int 15 15 15 15 15	PV MD PHV raphs/Rpts Total 49,128 48,936 49,986 49,552 34,383	MD PP VOLI Ye 20 20 20 20 20 20	UME TREM ar 11 07 03 SSIFICATI Da Mon 2/ Sun 2/	I (4) Anr ON te 7/2011	ual Grow 3% 10% -5% Gr Int 15	aphs/Rots) Total 49,128
VOL.	2003 1998 Vet Deman Model Year UME COL M S S Th W T T ED	34,014 42,852 d Model Model AADT INT Date Ion 2/7/20 run 2/6/20 nu 1/11/20 ed 1/10/20 ed 1/10/20 le 1/14/20	AM PH 11 11 07 007 003 Pace Data	V AM P G Int 15 15 15 15 15 85th	PV MD PHV raphs/Rpts Total 49,128 48,936 49,986 49,552 34,383	MD PP VOLI Ye 20 20 20 20 20 20	UME TREN ar 11 07 03 SSIFICATI Da Mon 2/	I (4) Anr ON te 7/2011	ual Grow 3% 10% -5% Gr Int 15	aphs/Rots) Total 48,936
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701. ** ** *	2003 1998 ret Deman Model Year UME COL UME COL M S S Th W Th ED Date	34,014 42,852 d Model Model AADT INT Date Ion 2/7/20 run 2/6/20 run 2/6/20 run 1/11/20 ed 1/10/20 run 1/11/20 ed 1/10/20 run 1/11/20 run 2/6/20 run  11 11 07 007 003 Pace Data	V AM P G Int 15 15 15 15 15 85th	PV MD PHV raphs/Rpts Total 49,128 48,936 49,986 49,552 34,383	MD PP VOLI Ye 20 20 20 20 20 20	UME TREM ar 11 07 03 SSIFICATI Da Mon 2/ Sun 2/0	DN te 7/2011	uual Grow 3% 10% -5% Gr Int 15 15 15	aphs/Rots Total 49,128 48,936	
(OL 95 95 95 95	2003 1998 ret Deman Model Year UME COL M S S TH W Tt W Tt ED Date	34,014 42,852 d Model Model AADT INT Date Ion 2/7/20 run 2/6/20 run 2/6/20 run 1/11/20 ed 1/10/20 run 1/11/20 ed 1/10/20 run 1/11/20 run 2/6/20 run	V AM P G Int 15 15 15 15 15 85th	PV MD PHV raphs/Rpts Total 49,128 48,936 49,986 49,552 34,383	MD PP VOLI Ye 20 20 20 20 20 20	UME TREM ar 11 07 03 SSIFICATI Da Mon 2/ Sun 2/0	DN te 7/2011 5/2011	uual Grow 3% 10% -5% Gr Int 15 15 15	aphs/Rots Total 49,128 48,936	



# **Volume Count Report**

LOCATION IN	FO
Location ID	3146
Туре	LINK
Fnct'l Class	3
Located On	51st Ave
From Road	Van Buren St
To Road	I-10 Fwy
Direction	2-WAY
Community	Phoenix
MPO ID	
HPMS ID	
Agency	MAG

COUNT DATA	INÉO
Start Date	Mon 2/7/2011
End Date	Tue 2/8/2011
Start Time	12:00:00 AM
End Time	12:00:00 AM
Direction	
Notes	
Count Source	Between
Filename	129v.xls
Weather	-
Study	
Speed Limit	
Description	
Sensor Type	
Owner	mag

INTERVAL:15-M	۸IN				
	1	5-min	Interv	al	Hourly
Time	1st	2nd	3rd	4th	Count
€ 0:00-1:00	179	187	140	120	626
1:00-2:00	145	138	157	111	551
2:00-3:00	138	131	148	166	583
3:00-4:00	171	171	216	198	756
4:00-5:00	217	322	431	476	1,446
5:00-6:00	420	529	661	761	2,371
6:00-7:00	673	619	599	715	2,606
7:00-8:00	661	721	703	771	2,856
8:00-9:00	709	621	718	661	2,709
9:00-10:00	543	607	615	609	2,374
10:00-11:00	550	619	594	627	2,390
11:00-12:00	635	693	713	747	2,788
12:00-13:00	755	710	770	703	2,938
13:00-14:00	697	753	742	750	2,942
14:00-15:00	736	725	753	714	2,928
15:00-16:00	694	731	712	756	2,893
16:00-17:00	697	685	773	721	2,876
17:00-18:00	772	818	782	727	3,099
18:00-19:00	714	608	535	549	2,406
19:00-20:00	544	490	464	408	1,906
20:00-21:00	411	365	362	376	1,514
21:00-22:00	386	318	385	344	1,433
22:00-23:00	280	356	339	243	1,218
23:00-24:00	238	242	244	195	919
Total					49,128
AM Peak					45-12:45 2,982
PM Peak				17:	00-18:00 3,099



# **Volume Count Report**

LOCATION INI	÷0
Location ID	3143_NB
Туре	LINK
Fnct'l Class	-
Located On	59th Ave
From Road	Van Buren St
To Road	I-10 Fwy
Direction	NB
Community	Phoenix
MPO ID	
HPMS ID	
Agency	MAG

COUNT DATA	INFO
Start Date	Wed 3/30/2011
End Date	Thu 3/31/2011
Start Time	12:00:00 AM
End Time	12:00:00 AM
Direction	
Notes	
Count Source	Enter Location
Filename	128v.xis
Weather	
Study	
Speed Limit	
Description	
Sensor Type	
Owner	mag

INTERVAL:15-N	IIN				
	1	5-min	Interv	al	Hourly
Tíme	1st	2nd	3rd	4th	Count
()>>> 0:00-1:00	34	26	31	16	107
1:00-2:00	21	20	17	23	81
2:00-3:00	33	33	17	15	98
3:00-4:00	25	26	29	41	121
4:00-5:00	40	36	77	80	233
5:00-6:00	64	93	101	84	342
6:00-7:00	89	117	119	150	475
7:00-8:00	182	185	200	181	748
8:00-9:00	174	152	138	145	609
9:00-10:00	126	130	162	128	546
10:00-11:00	128	128	138	126	520
11:00-12:00	157	133	153	155	598
12:00-13:00	186	151	194	149	680
13:00-14:00	154	151	206	191	702
14:00-15:00	230	188	292	240	950
15:00-16:00	243	202	356	265	1,066
16:00-17:00	256	233	290	243	1,022
17:00-18:00	292	241	225	202	960
18:00-19:00	197	187	182	165	731
19:00-20:00	138	115	105	104	462
20:00-21:00	98	95	60	85	338
21:00-22:00	57	65	85	51	258
22:00-23:00	64	63	40	63	230
23:00-24:00 (B)	47	27	39	28	141
Total					12,018
AADT					11,177
AM Peak				07	00-08:00 748
PM Peak				15	30-16:30 1,110

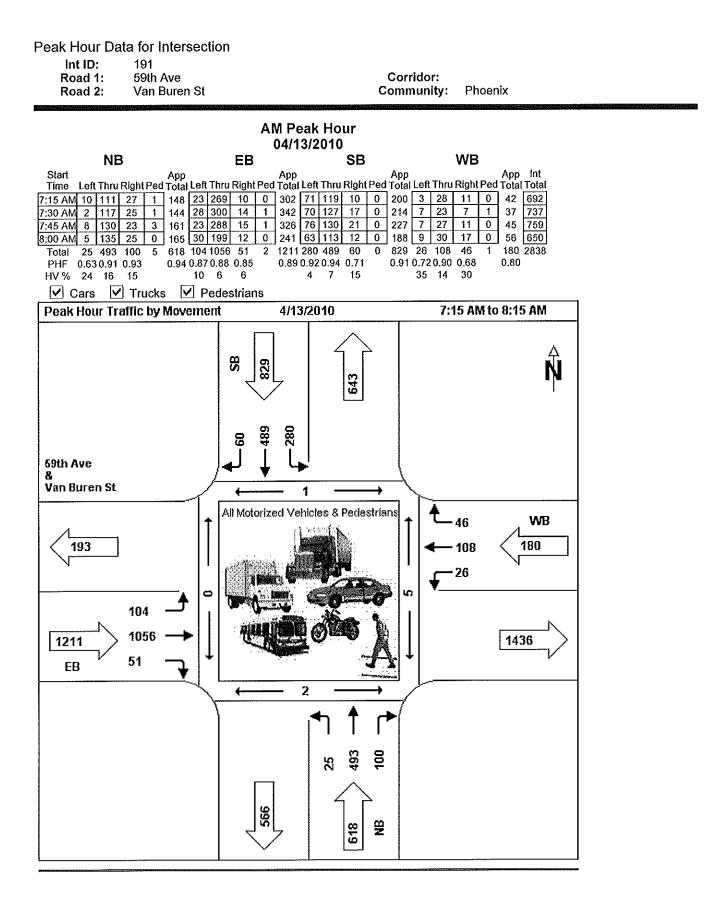


# Volume Count Report

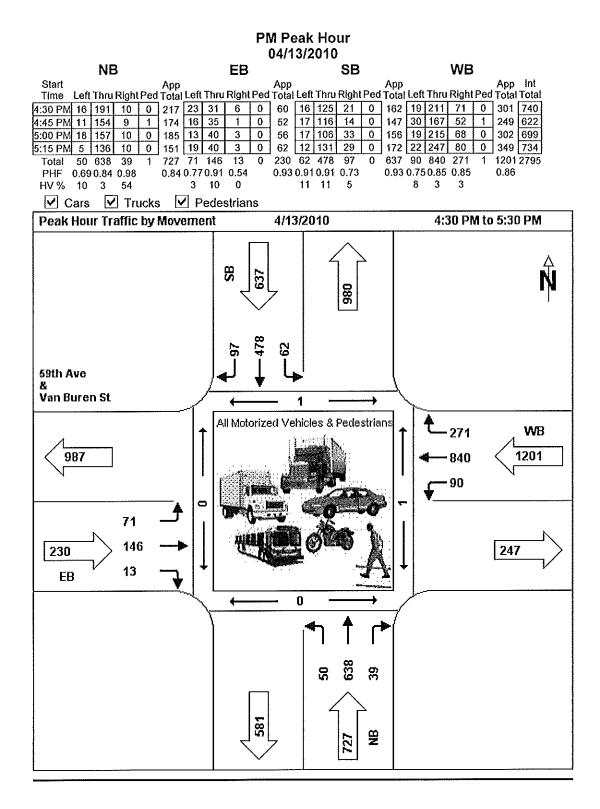
₹O
3143_SB
LINK
-
59th Ave
Van Buren St
I-10 Fwy
SB
Phoenix
MAG

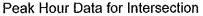
COUNT DATA	INFO
Start Date	Wed 3/30/2011
End Date	Thu 3/31/2011
Start Time	12:00:00 AM
End Time	12:00:00 AM
Direction	
Notes	
Count Source	Enter Location
Filename	128v.xis
Weather	
Study	
Speed Limit	
Description	
Sensor Type	
Owner	mag

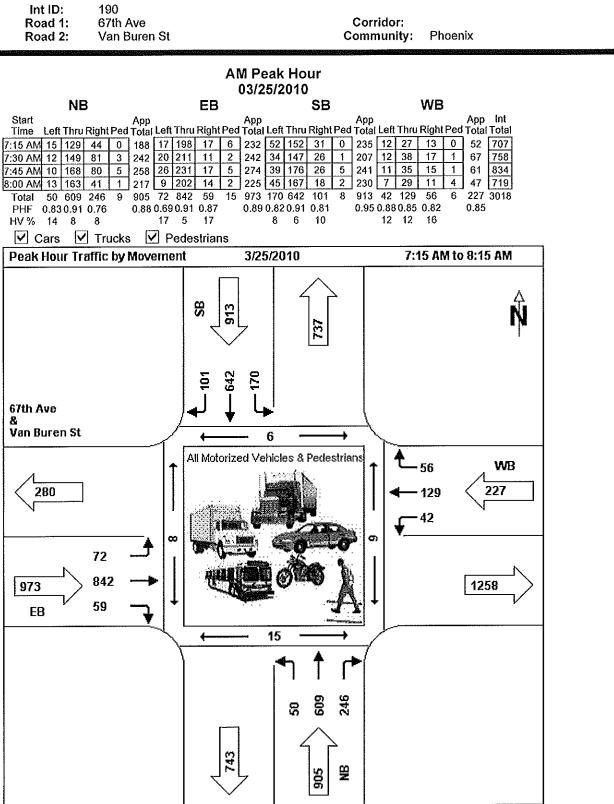
INTERVAL:15-MIN						
	1	5-min	Interv	ai	Hourly	
Time	1st	2nd	3rd	4th	Count	
(❥) 0:00-1:00	53	69	41	50	213	
1:00-2:00	31	48	42	52	173	
2:00-3:00	39	42	45	51	177	
3:00-4:00	46	69	91	102	308	
4:00-5:00	74	132	226	264	696	
5:00-6:00	162	253	366	426	1,207	
6:00-7:00	266	247	313	409	1,235	
7:00-8:00	337	313	347	398	1,395	
8:00-9:00	303	243	222	259	1,027	
9:00-10:00	223	195	227	219	864	
10:00-11:00	195	187	185	200	767	
11:00-12:00	191	230	218	279	918	
12:00-13:00	250	239	240	221	950	
13:00-14:00	245	208	208	242	903	
14:00-15:00	245	257	243	287	1,032	
15:00-16:00	245	246	266	258	1,015	
16:00-17:00	242	260	263	240	1,005	
17:00-18:00	237	318	342	296	1,193	
18:00-19:00	276	241	229	220	966	
19:00-20:00	222	221	162	173	778	
20:00-21:00	151	145	178	151	625	
21:00-22:00	168	149	134	123	574	
22:00-23:00	133	103	83	77	396	
23:00-24:00 ()	63	77	72	71	283	
Total					18,700	
AADT				·	17,391	
AM Peak				06:	45-07:45 1,406	
PM Peak				17:	15-18:15 1,232	



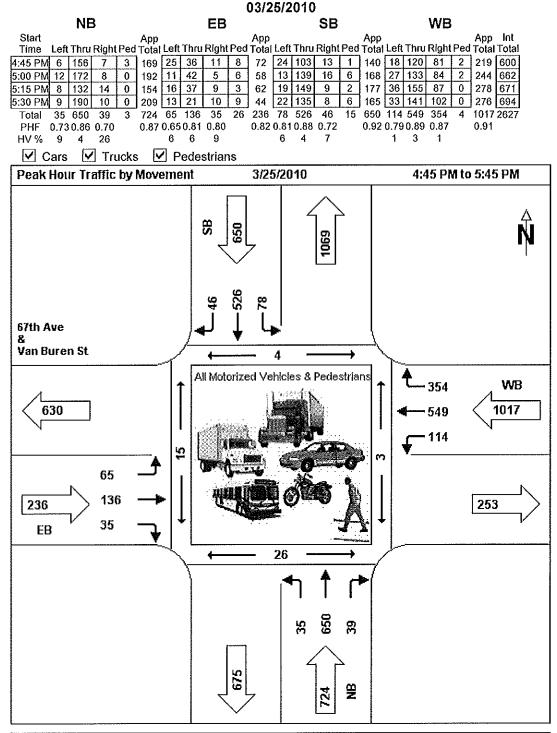
# 12/13/2012







PM Peak Hour



# **APPENDIX C**

# SIGNAL WARRANTS

The overall objective of traffic signal control is to provide an equitable balance of safe and efficient movements of traffic and pedestrian volumes through the intersection. Although most of the steps in conducting a traffic signal needs study are quantitative, the final determination of recommending whether traffic signal controls should be provided at a particular location involves a qualitative assessment which requires engineering judgment. If the particular location being studied satisfies one or more of the eleven MUTCD warrants, one of the most important qualitative assessments the traffic engineer should consider before justifying traffic signal control is a remedy that is less restrictive than signalizing the intersection.

Some of the less restrictive remedies that should be considered are:

- A. Geometric improvements such as the addition of turn lanes either by construction or by restriping the existing cross section;
- B. Sight obstruction removal to increase intersection sight distance;
- C. Street lighting if nighttime accidents are predominant; and
- D. Improved signing and pavement markings to better define the intersection and its operational characteristics.

A traffic signal needs study shall be conducted to determine if a traffic signal should be provided at a particular location. The signal needs study should include a comprehensive investigation of traffic conditions and the physical characteristics of the location. The following data and/or analyses may be included in the study as appropriate to the specific situation:

- A. A signal warrant analysis (required).
- B. A 24-hour turning movement count which includes all entering traffic volumes and movement direction, AM and PM peak hour traffic volumes and movement direction, and pedestrian volumes; the percentage of trucks and buses should be considered where appropriate. A 24-hour turning movement count should be obtained by applying factors of 1.35 and 1.20 to 12 or 16 hours, respectively, of turning movement count data collected in the field.
- C. A traffic collision study including a summary by type and severity with a collision diagram
- D. A condition diagram which includes roadway geometrics, parking, driveways, sidewalks, signing, pavement markings, development of intersection quadrants, and any other features pertinent to the study
- E. A peak hour delay study
- F. A conflict analysis

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- G. Approach speed limits and/or approach speeds
- H. Analysis of the existing progression in a coordinated system
- I. A capacity analysis
- J. Traffic volume projections for new roadways (see Figure 611-A)
- K. Traffic signal priority evaluation (see Figure 611-B)
- L. Other data which are desirable for a more precise understanding of the operation of the intersection

On new roadways scheduled for construction, it is occasionally necessary to project signal warrants to determine whether signals should be considered for inclusion in the initial construction project. There is a simple approach to projecting signal volume warrants. The following steps provide a solid, although theoretical, basis for deciding whether or not signals should be incorporated in the design:
A. Obtain a traffic projection from the Transportation Planning Group, Travel and Facilities Section, or from any other reliable source of data, for three years beyond the anticipated completion of construction.

- B. Determine whether full warrants or 70 percent warrants are appropriate for the location.
- C. Multiply the projected AADT by 5.72 percent.¹ The resultant volumes are reasonable approximations of the eighth highest hourly volumes; thus, if the calculated volumes exceed the warrant values, the location could technically be considered for signalization.
- D. To fill in a "Projected Volumes" warrant sheet, multiply the projected AADT by the following factors:

		• 1	Hig	<u>h Hour</u>	Hour	ly Adjustment Fa	actor ²	
				1 4 8		.0771 .0656 .0572		
1	Pignataro, 1973, page	Louis 158.	J.,	Traffic	Engineering,	(Prentice-Hall,	Englewood	Cliffs),
~								

#### 2 Ibid.

#### FIGURE 611-A TRAFFIC VOLUME PROJECTIONS FOR NEW ROADWAYS

#### CHAPTER 4C. TRAFFIC CONTROL SIGNAL NEEDS STUDIES

#### Section 4C.01 Studies and Factors for Justifying Traffic Control Signals

Standard:

- An engineering study of traffic conditions, pedestrian characteristics, and physical characteristics of the location shall be performed to determine whether installation of a traffic control signal is justified at a particular location.
- . 02 The investigation of the need for a traffic control signal shall include an analysis of factors related to the existing operation and safety at the study location and the potential to improve these conditions, and the applicable factors contained in the following traffic signal warrants:
  - Warrant 1, Eight-Hour Vehicular Volume Warrant 2, Four-Hour Vehicular Volume Warrant 3, Peak Hour Warrant 4, Pedestrian Volume Warrant 5, School Crossing Warrant 6, Coordinated Signal System Warrant 7, Crash Experience Warrant 8, Roadway Network Warrant 8, Intersection Near a Grade Crossing
  - ⁰³ The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Support:

- ⁰⁴ Sections 8C.09 and 8C.10 contain information regarding the use of traffic control signals instead of gates and/ or flashing-light signals at highway-rail grade crossings and highway-light rail transit grade crossings, respectively. *Guidance:*
- ⁰⁵ A traffic control signal should not be installed unless one or more of the factors described in this Chapter are met.
- ⁰⁶ A traffic control signal should not be installed unless an engineering study indicates that installing a traffic control signal will improve the overall safety and/or operation of the intersection.
- 07 A traffic control signal should not be installed if it will seriously disrupt progressive traffic flow.
- ⁰⁸ The study should consider the effects of the right-turn vehicles from the minor-street approaches. Engineering judgment should be used to determine what, if any, portion of the right-turn traffic is subtracted from the minor-street traffic count when evaluating the count against the signal warrants listed in Paragraph 2.
- Engineering judgment should also be used in applying various traffic signal warrants to cases where approaches consist of one lane plus one left-turn or right-turn lane. The site-specific traffic characteristics should dictate whether an approach is considered as one lane or two lanes. For example, for an approach with one lane for through and right-turning traffic plus a left-turn lane, if engineering judgment indicates that it should be considered a one-lane approach because the traffic using the left-turn lane is minor, the total traffic
- volume approaching the intersection should be applied against the signal warrants as a one-lane approach. The approach should be considered two lanes if approximately half of the traffic on the approach turns left and the left-turn lane is of sufficient length to accommodate all left-turn vehicles.
- Similar engineering judgment and rationale should be applied to a street approach with one through/left-turn lane plus a right-turn lane. In this case, the degree of conflict of minor-street right-turn traffic with traffic on the major street should be considered. Thus, right-turn traffic should not be included in the minor-street volume if the movement enters the major street with minimal conflict. The approach should be evaluated as a one-lane approach with only the traffic volume in the through/left-turn lane considered.
- At a location that is under development or construction and where it is not possible to obtain a traffic count that would represent future traffic conditions, hourly volumes should be estimated as part of an engineering study for comparison with traffic signal warrants. Except for locations where the engineering study uses the satisfaction of Warrant 8 to justify a signal, a traffic control signal installed under projected conditions should have an engineering study done within 1 year of putting the signal into stop-and-go operation to determine if the signal is justified. If not justified, the signal should be taken out of stop-and-go operation or removed.
- 12 For signal warrant analysis, a location with a wide median, even if the median width is greater than 30 feet, should be considered as one intersection.

1

#### **Option:**

- At an intersection with a high volume of left-turn traffic from the major street, the signal warrant analysis 13 may be performed in a manner that considers the higher of the major-street left-turn volumes as the "minor-street" volume and the corresponding single direction of opposing traffic on the major street as the "major-street" volume.
- For signal warrants requiring conditions to be present for a certain number of hours in order to be satisfied, 14 any four sequential 15-minute periods may be considered as 1 hour if the separate 1-hour periods used in the warrant analysis do not overlap each other and both the major-street volume and the minor-street volume are for the same specific one-hour periods.
- For signal warrant analysis, bicyclists may be counted as either vehicles or pedestrians. 15

Support:

- When performing a signal warrant analysis, bicyclists riding in the street with other vehicular traffic are usually 16 counted as vehicles and bicyclists who are clearly using pedestrian facilities are usually counted as pedestrians. Option:
- Engineering study data may include the following: 17
  - A. The number of vehicles entering the intersection in each hour from each approach during 12 hours of an average day. It is desirable that the hours selected contain the greatest percentage of the 24-hour traffic volume.
  - Vehicular volumes for each traffic movement from each approach, classified by vehicle type (heavy trucks, Β. passenger cars and light trucks, public-transit vehicles, and, in some locations, bicycles), during each 15-minute period of the 2 hours in the morning and 2 hours in the afternoon during which total traffic entering the intersection is greatest.
  - C. Pedestrian volume counts on each crosswalk during the same periods as the vehicular counts in Item B and during hours of highest pedestrian volume. Where young, elderly, and/or persons with physical or visual disabilities need special consideration, the pedestrians and their crossing times may be classified by general observation.
  - D. Information about nearby facilities and activity centers that serve the young, elderly, and/or persons with disabilities, including requests from persons with disabilities for accessible crossing improvements at the location under study. These persons might not be adequately reflected in the pedestrian volume count if the absence of a signal restrains their mobility.
  - E.
  - The posted or statutory speed limit or the 85th-percentile speed on the uncontrolled approaches to the location. A condition diagram showing details of the physical layout, including such features as intersection E. geometrics, channelization, grades, sight-distance restrictions, transit stops and routes, parking conditions, pavement markings, roadway lighting, driveways, nearby railroad crossings, distance to nearest traffic control signals, utility poles and fixtures, and adjacent land use.
  - G. A collision diagram showing crash experience by type, location, direction of movement, severity, weather, time of day, date, and day of week for at least 1 year.
- The following data, which are desirable for a more precise understanding of the operation of the intersection, 18 may be obtained during the periods described in Item B of Paragraph 17:
  - A. Vehicle-hours of stopped time delay determined separately for each approach.
  - B. The number and distribution of acceptable gaps in vehicular traffic on the major street for entrance from the minor street.
  - C. The posted or statutory speed limit or the 85th-percentile speed on controlled approaches at a point near to the intersection but unaffected by the control.
  - Pedestrian delay time for at least two 30-minute peak pedestrian delay periods of an average weekday or D. like periods of a Saturday or Sunday.
  - E. Queue length on stop-controlled approaches.

#### Section 4C.02 Warrant 1, Eight-Hour Vehicular Volume

Support:

- The Minimum Vehicular Volume, Condition A, is intended for application at locations where a large volume of 01 intersecting traffic is the principal reason to consider installing a traffic control signal.
- The Interruption of Continuous Traffic, Condition B, is intended for application at locations where Condition A 02 is not satisfied and where the traffic volume on a major street is so heavy that traffic on a minor intersecting street suffers excessive delay or conflict in entering or crossing the major street.
- 03 It is intended that Warrant 1 be treated as a single warrant. If Condition A is satisfied, then Warrant 1 is satisfied and analyses of Condition B and the combination of Conditions A and B are not needed. Similarly, if Condition B is satisfied, then Warrant 1 is satisfied and an analysis of the combination of Conditions A and B is not needed.

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#### Standard:

- The need for a traffic control signal shall be considered if an engineering study finds that one of the 04 following conditions exist for each of any 8 hours of an average day:
  - A. The vehicles per hour given in both of the 100 percent columns of Condition A in Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection; or
  - B. The vehicles per hour given in both of the 100 percent columns of Condition B in Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection.

In applying each condition the major-street and minor-street volumes shall be for the same 8 hours. On the minor street, the higher volume shall not be required to be on the same approach during each of these 8 hours.

Option:

If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if 05 the intersection lies within the built-up area of an isolated community having a population of less than 10,000, the traffic volumes in the 70 percent columns in Table 4C-1 may be used in place of the 100 percent columns.

Guidance:

- The combination of Conditions A and B is intended for application at locations where Condition A is not 06 satisfied and Condition B is not satisfied and should be applied only after an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems. Standard:
- The need for a traffic control signal shall be considered if an engineering study finds that both of the 07 following conditions exist for each of any 8 hours of an average day:
  - A. The vehicles per hour given in both of the 80 percent columns of Condition A in Table 4C-1 exist on the major-street and the higher-volume minor-street approaches, respectively, to the intersection; and
  - The vehicles per hour given in both of the 80 percent columns of Condition B in Table 4C-1 exist on B. the major-street and the higher-volume minor-street approaches, respectively, to the intersection.

These major-street and minor-street volumes shall be for the same 8 hours for each condition; however, the 8 hours satisfied in Condition A shall not be required to be the same 8 hours satisfied in Condition B. On the minor street, the higher volume shall not be required to be on the same approach during each of the 8 hours.

Number of lai traffic on ea	nes for moving ch approach	Vehicie (tol	es per hou tal of both	ir on majo approach	r street ies)	Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100%ª	80% ^ь	70%	56% ^d	100%*	80% ⁶	70%	56% ^d
	Street Based	500	400	350	280	150	120	105	84
2 or more	1	600	480	420	336	150	120	105	84
2 or more	2 or more	600	480	420	336	200	160	140	112
t	2 or more	500	400	350	280	200	160	140	112

#### Table 4C-1. Warrant 1, Eight-Hour Vehicular Volume

Number of la traffic on ea	nes for moving ch approach	Vehicle (tot	s per hou al of both	ir on majo approach	r street es)	Vehicles per hour on higher-volume minor-street approach (one direction only)			
Major Street	Minor Street	100%ª	80% ^ь	70%°	56% ^d	100%ª	80% ^b	70%	56%4
1	1	750	600	525	420	75	60	53	42
2 or more	1	900	720	630	504	75	60	53	42
2 or more	2 or more	900	720	630	504	100	80	70	56
1	2 or more	750	600	525	420	100	80	70	56

#### Condition B-Interruption of Continuous Traffic

* Basic minimum hourly volume

^b Used for combination of Conditions A and B after adequate trial of other remedial measures

. May be used when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

^d May be used for combination of Conditions A and B after adequate trial of other remedial measures when the major-street speed exceeds 40 mph or in an isolated community with a population of less than 10,000

Option:

⁰⁸ If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, the traffic volumes in the 56 percent columns in Table 4C-1 may be used in place of the 80 percent columns.

#### Section 4C.03 Warrant 2, Four-Hour Vehicular Volume

Support:

- The Four-Hour Vehicular Volume signal warrant conditions are intended to be applied where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal. **Standard:**
- The need for a traffic control signal shall be considered if an engineering study finds that, for each of any 4 hours of an average day, the plotted points representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) all fall above the applicable curve in Figure 4C-1 for the existing combination of approach lanes. On the minor street, the higher volume shall not be required to be on the same approach during each of these 4 hours.

Option:

If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, Figure 4C-2 may be used in place of Figure 4C-1.

#### Section 4C.04 Warrant 3, Peak Hour

Support:

The Peak Hour signal warrant is intended for use at a location where traffic conditions are such that for a minimum of 1 hour of an average day, the minor-street traffic suffers undue delay when entering or crossing the major street.

Standard:

- ⁰² This signal warrant shall be applied only in unusual cases, such as office complexes, manufacturing plants, industrial complexes, or high-occupancy vehicle facilities that attract or discharge large numbers of vehicles over a short time.
- The need for a traffic control signal shall be considered if an engineering study finds that the criteria in either of the following two categories are met:
  - A. If all three of the following conditions exist for the same 1 hour (any four consecutive 15-minute periods) of an average day:
    - 1. The total stopped time delay experienced by the traffic on one minor-street approach (one direction only) controlled by a STOP sign equals or exceeds: 4 vehicle-hours for a one-lane approach or 5 vehicle-hours for a two-lane approach; and
    - 2. The volume on the same minor-street approach (one direction only) equals or exceeds 100 vehicles per hour for one moving lane of traffic or 150 vehicles per hour for two moving lanes; and
    - 3. The total entering volume serviced during the hour equals or exceeds 650 vehicles per hour for intersections with three approaches or 800 vehicles per hour for intersections with four or more approaches.
  - **B.** The plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the higher-volume minor-street approach (one direction only) for 1 hour (any four consecutive 15-minute periods) of an average day falls above the applicable curve in Figure 4C-3 for the existing combination of approach lanes.

Option:

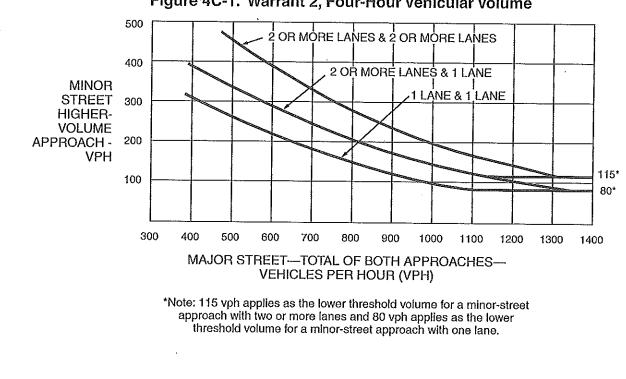
- ⁰⁴ If the posted or statutory speed limit or the 85th-percentile speed on the major street exceeds 40 mph, or if the intersection lies within the built-up area of an isolated community having a population of less than 10,000, Figure 4C-4 may be used in place of Figure 4C-3 to evaluate the criteria in the second category of the Standard.
- If this warrant is the only warrant met and a traffic control signal is justified by an engineering study, the traffic control signal may be operated in the flashing mode during the hours that the volume criteria of this warrant are not met.

Guidance:

If this warrant is the only warrant met and a traffic control signal is justified by an engineering study, the traffic control signal should be traffic-actuated.

December 2009

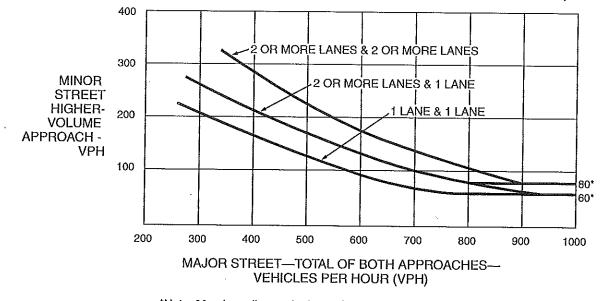
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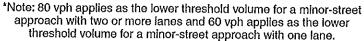


#### Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)





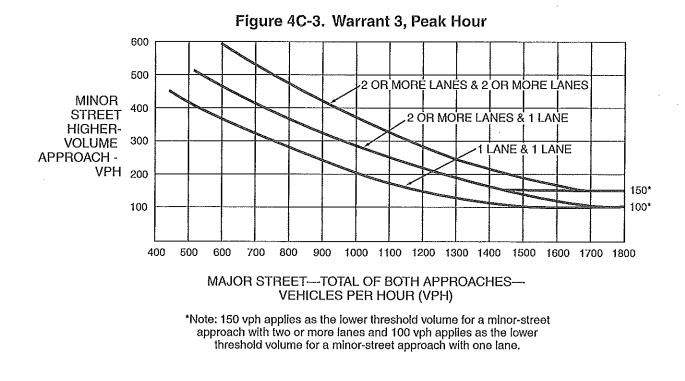
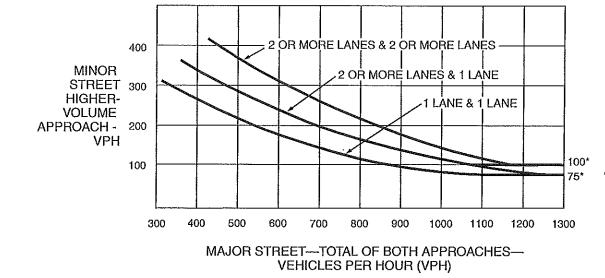


Figure 4C-4. Warrant 3, Peak Hour (70% Factor) (COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

# **APPENDIX D**

TRIP DISTRIBUTION

**Truck Trip Generation Study** 

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# SUMMARY OF RECOMMENDED TRIP GENERATION RATES AND EQUATIONS (Cont'd)

Classification: Heavy Warehouse

		NO. OF EMPLOYE		6 R	GROSS BUILDING AREA (KSF)	(KSF)		ACRES	
Period	Weighted Average Trips	Linear Regression	Logarithmic Regression	Weighted Average Trips	Linear Regression	Logarithmic Regression	Weighted Average Trips	Linear Regression	Logarithmic Regression
Daily									
Total Vehicles	4.657"X	n.a.	n.a.	3.547*x	n.a.	n.a.	69.959*X	n.a.	n.a.
AM Street									
Total Vehicles	0.091*X	Marginal	n.a.	0.070*X	0.032*X+21.235	Marginal	1.373*X	0.589*X+22.708	Marginal
Trucks	0.034*X	0.021*X+6.025	8.090*1.001^X	0.026*X	0.016*X+5.638	7.929*1.001^X	0.518*X	0.301*X+6.291	8.220*1.017^X
PM Street	:								
Total Vehicles	0.095*X	0.054*X+17.889	22.051*1.001^X	0.073 <b>*</b> X	0.042*X+17.592	Marginal	1.433*X	0.771*X+19.178	Marginal
Trucks	0.034*X	Marginal	n.a.	0.026*X	0.023*X+1.584	Marginal	0.509*X	0.419*X2.609	Marginal
AM Site	•	1							
Total Vehicles	0.309*X	0.268*X+17.625	50.347*1.002^X	0.235*X	0.215*X+11.213	48.177*1.001 ^v X	4.637*X	3.951*X+19.862	50.856*1.025^X
Trucks	0.040*X	n.a.	n.a.	0.030*X	<u>л</u> а.	n.a.	0.596*X	n.a.	n.a.
PM Site									
Total Vehicles	0.417*X	0.417*X 0.390*X+11.980	Marginal	0.318*X	0.323*X-2.803	49.975*1.002^X	6.268*X	5.902*X+10.616	50.560*1.030^X
Trucks	0.044*X	0.021*X+9.850	Marginal	0.033*X	0.016*X+10.004	Marginal	0.656*X	0.291*X+10.585	Marginal

Note: All symbols are per Microsoft Excel (+, -, *, and ^) add, subtract, multiply and raise to a power. "X" is the independent variable.

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#### **TRUCK TRIP GENERATION STUDY**

#### **CITY OFFICIALS**

Honorable Mark Nuaimi, Mayor Honorable Janice Rutherford, Mayor Pro Tem Honorable John B. Roberts, Council Member Honorable Josie Gonzales, Council Member Honorable Acquanetta Warren, Council Member Kenneth R. Hunt, City Manager



#### **PROJECT MANAGERS**

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Raymond Bragg, Director of Redevelopment & Special Projects Paul Balbach, Strategic Transportation Engineering Manager William G. Bryant, P.E., Project Manager DMJM+Harris

#### PREPARED BY

Transportation Engineering and Planning, Inc. Craig Neustaedter, P.E., AICP Nathan Neustaedter Christine Gamatero, E.I.T. Linda Fuller, Linda Fuller Communications

#### **Traffic Counts by**

**Counts Unlimited** 

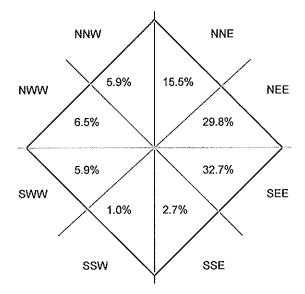
Barbara Sackett, President

MAG Trip Distribution Version 1.3.0 Friday, December 14, 2012 1:05 PM

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Project Name: NWC 59th Avenue/Van Buren Street Project Location: NWC 59th Avenue/Van Buren Street Analyst: kmh

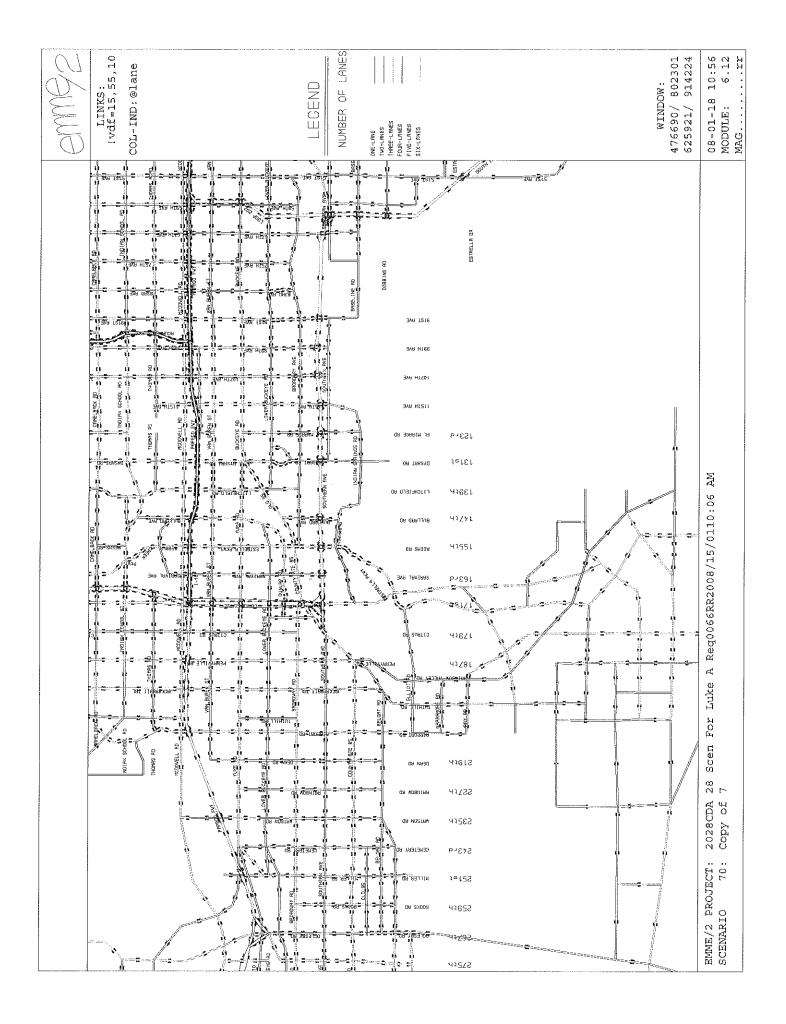
Location of Site:TAZ734Development Type being Analyzed:ResidentialForecast Year:2015Distance Out from Site (miles):10

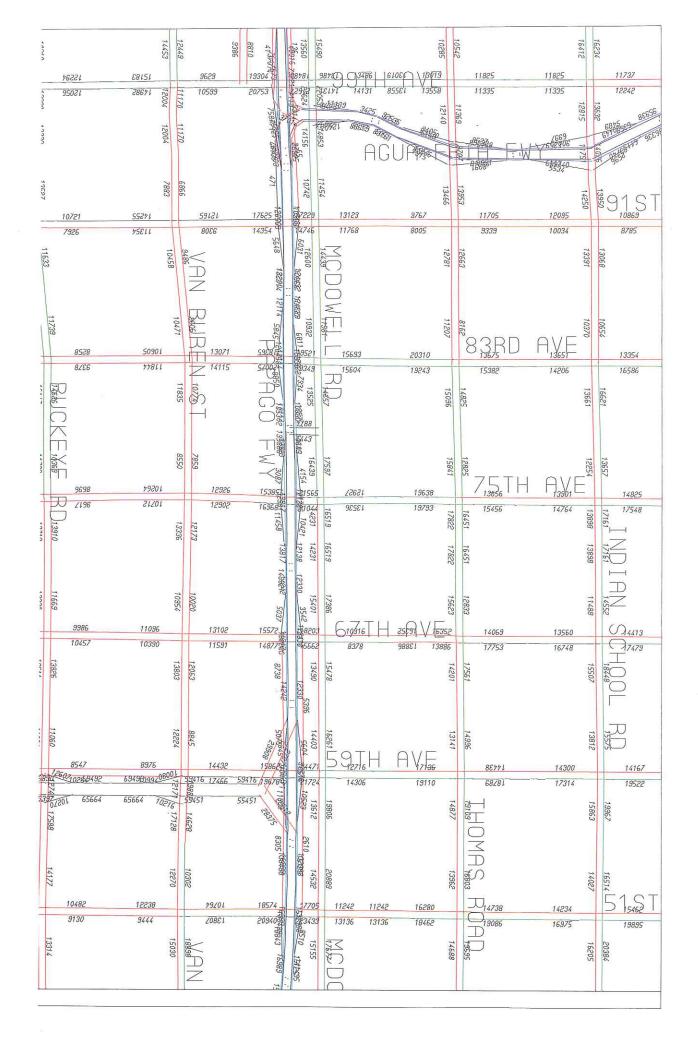


Bearing	% of Trips
NNE	15.5%
NEE	29.8%
SEE	32.7%
SSE	2.7%
SSW	1.0%
SWW	5.9%
NWW	6.5%
NNW	5.9%

# **APPENDIX E**

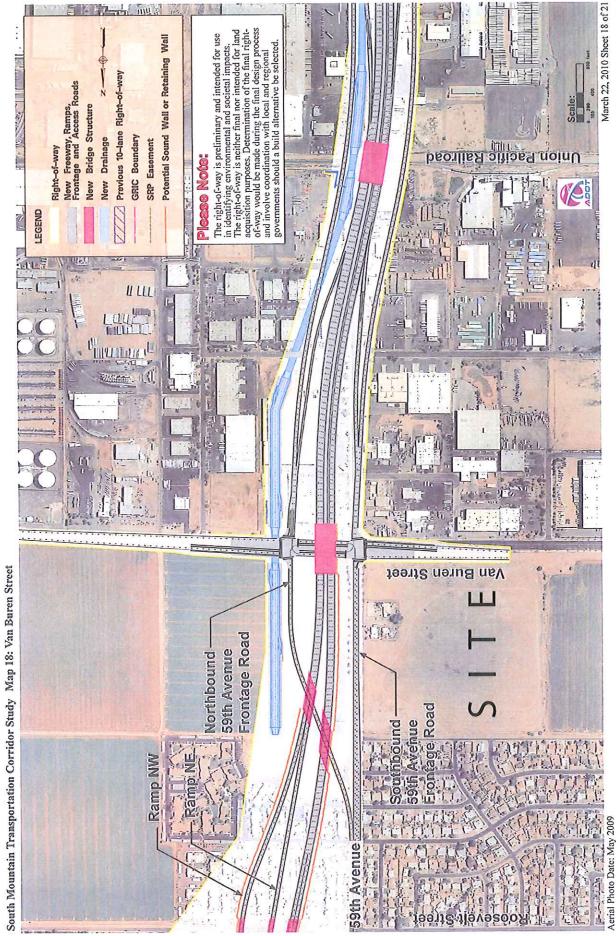
# LONG RANGE PROJECTIONS

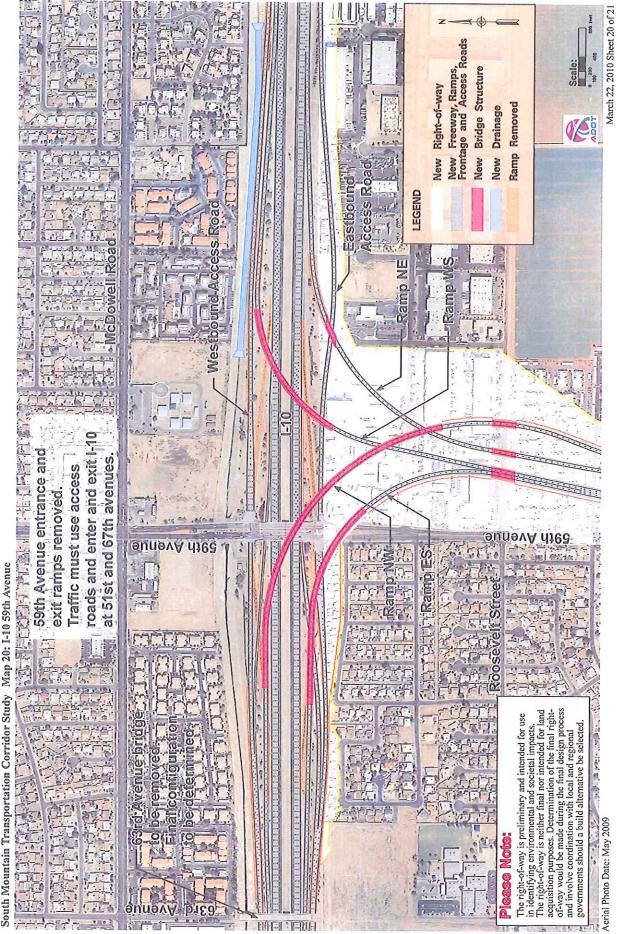




### **APPENDIX F**

# PRELIMINARY DESIGN OF SOUTH MOUNTAIN FREEWAY





South Mountain Transportation Corridor Study

#### Appendix C: Reserved – Phoenix City Council Meeting Hearing Minutes

Appendix D: Reserved – PUD – Conditions of Zoning Approval