FINAL

## AIRPORT SOUTH ROADWAY INFRASTRUCTURE IMPROVEMENTS

January 25, 2007

Prepared for: City of Bloomington

Prepared by: SRF Consulting Group, Inc.

## TABLE OF CONTENTS

- 1) Executive Summary
  - Table Ex-1 Airport South Roadway Infrastructure Improvements Cost Summary
  - Table Ex-2 Development/Redevelopment Cost Allocation Summary
- 2) Report
- 3) Attachment A
  - Figure 1 Airport South Roadway Infrastructure Improvement Locations
  - Table 1 Airport South Roadway Infrastructure Improvements List
- 4) Attachment B
  - Table 2 Airport South Roadway Infrastructure Improvements List and Costs
  - Cost Breakdowns and Concept Sketches
- 5) Attachment C
  - TH 77 CD Roadway Connection Detailed Preliminary Layouts
- 6) Attachment D
  - Figure 2 Development and TAZ Locations
  - Weekday (Thursday) Individual Site Cost Allocations
  - Weekday (Thursday) Existing Cost Allocations
  - Weekday (Thursday) Existing and Future Cost Allocations
  - Weekend (Saturday) Individual Site Cost Allocations
  - Weekend (Saturday) Existing Cost Allocations
  - Weekend (Saturday) Existing and Future Cost Allocations

## **EXECUTIVE SUMMARY**

## Introduction

SRF Consulting Group has completed the preliminary engineering and cost estimates for the roadway infrastructure improvements necessary to support currently projected future growth in the Airport South Area over the next 25 years. These roadway improvements are consistent with the *Mall of America (MOA) Phase II Traffic Study* final draft report dated March 20, 2006 and the *Bloomington Central Station (BCS) Traffic Study* report dated October 28, 2004. Our work includes the following:

- Comprehensive list of infrastructure improvements for the Airport South Area
- Preliminary engineering for the TH 77 CD roadway connection to/from the current MOA
- Concept sketches, right-of-way needs and preliminary cost estimates for all infrastructure improvements
- Allocation of costs to the appropriate existing and proposed developments based on vehicular trips
- Supplemental operations analyses for the realignment of East Old Shakopee Road and reconstruction of the I-494/34th Avenue interchange

## Infrastructure Improvements

With City staff input, SRF developed a comprehensive list of infrastructure improvements for the entire Airport South Area bounded by I-494 on the north, the Minnesota River on the east and south, Old Shakopee Road on the south and TH 77 on the west.

## **Preliminary Cost Estimates**

Costs were developed for each improvement based on preliminary layouts and concept sketches. All cost estimates include construction cost, design engineering, contract administration, and construction engineering (inspection, testing services, etc.), right-of-way and contingency costs. Table Ex-1 includes the roadway infrastructure improvements and associated costs, by location.

## **Cost Allocations**

The purpose of the cost allocation analysis is to allocate future public improvement costs related to full build conditions (year 2030) of the Airport South AUAR area to the appropriate existing and future redevelopments/developments. In addition, consideration was applied to existing volumes currently using the roadway network contributing to the capacity constraints and subsequent need for improvements. Table Ex-2 presents the costs allocated to the various existing and future developments/redevelopments.

Hi-Mu		-
Improvement	Location	Cost
1	Northbound TH 77 to Eastbound Lindau Lane	See #'s 6 & 7
2	Killebrew Drive and 24th Avenue	\$881,104
3	Killebrew Drive and 22nd Avenue (City provided layout)	\$848,078
4	Killebrew Drive and 20th Avenue (City provided layout)	\$1,860,924
5	Lindau Lane/TH 77 Ramps/IKEA Way	See # 31
6&7	TH 77 CD Roadway (near Lindau Lane)	\$3,779,513
8	TH 77/I-494 CD Roadway (Interim)	\$512,549
9	TH 77/I-494 CD Roadway (Interim)	\$759,845
10A	TH 77/I-494 CD Roadway	\$1,258,795
10B	TH 77/I-494 CD Roadway	\$16,352,940
10C	Thunderbird Road Roundabout	\$1,178,231
11	I-494/24th Avenue Single-Point Interchange	\$646,121
12A	American Boulevard/24th Avenue	\$1,524,296
12B	American Boulevard/24th Avenue	\$4,076,987
13	28th Avenue/82nd Street	\$2,207,017
14	Old Shakopee Road, Cedar Avenue to Killebrew Drive	\$10,295,604
15	American Boulevard	\$474,094
16	American Boulevard/34th Avenue	\$2,252,575
17	American Boulevard/International Drive/33rd Avenue	\$170,138
18	American Boulevard/Metro Drive East	\$234,356
19	American Boulevard/30th Avenue	\$617,779
20	American Boulevard/28th Avenue	\$690,816
20A	28th Ave	\$1,676,140
21	34th Avenue	\$394,051
22	Old Shakopee Road/33rd Avenue	\$300,300
23	Old Shakopee Road/31st Avenue	Under construction
24	Old Shakopee Road/30th Avenue	\$2,433,499
25	Old Shakopee Road/28th Avenue	\$7,768,665
26	I-494/34th Avenue Interchange	\$59,652,091
27	24th Avenue/82nd Street	\$96,009
28A	86th Street extension to EOSR to 28th Avenue	\$28,261,141
28B	86th Street/Old Shakopee Road	\$1,608,896
29	30th Avenue	\$1,677,315
30	Wayfinding Signs	\$549,600
31	Lowering Lindau Lane	\$12,900,000
	Old Shakopee Road, 24th Avenue to 30th Avenue	See #'s 24 & 25
	ITS Improvements	\$2,500,000
	Total:	\$170,439,471

 Table Ex-1

 Airport South Roadway Infrastructure Improvements – Cost Summary

Table Ex-2	
Development/Redevelopment Cost Allocation Summary	

	Scenario				
Development	Weekday (Thursday)	Weekend (Saturday)			
Existing					
City of Bloomington	\$20,429,651	\$22,327,527			
MOA	\$7,064,048	\$10,666,826			
IKEA	\$191,083	\$742,959			
Health Partners	\$2,973,453	\$0			
MAC	\$7,416,440	\$14,057,526			
Future					
Proposed MOA II	\$31,371,834	\$32,875,649			
Proposed BCS	\$25,874,408	\$35,093,766			
Proposed AUAR Developments	\$58,566,569	\$42,154,464			
Proposed MAC Terminal Expansion	\$11,331,414	\$7,632,189			
Proposed Park-and-Ride Expansion	\$5,220,570	\$4,888,565			
Total:	\$170,439,471	\$170,439,471			

## INTRODUCTION

The proposed Mall of America Phase II and Bloomington Central Station developments alone will have a significant impact on the City's transportation infrastructure. As requested, we have completed the preliminary engineering and cost estimates for the roadway infrastructure improvements necessary to support currently projected future growth in the Airport South Area over the next 25 years. These roadway improvements are consistent with the *Mall of America* (*MOA*) *Phase II Traffic Study* final draft report dated March 20, 2006 and the *Bloomington Central Station (BCS) Traffic Study* report dated October 28, 2004. Our work includes the following:

- Comprehensive list of infrastructure improvements for the Airport South Area
- Preliminary engineering for the TH 77 CD roadway connection to/from the current MOA
- Concept sketches, right-of-way needs and preliminary cost estimates for all infrastructure improvements
- Allocation of costs to the appropriate existing and proposed developments based on vehicular trips
- Supplemental operations analyses for the realignment of East Old Shakopee Road and reconstruction of the I-494/34th Avenue interchange

## INFRASTRUCTURE IMPROVEMENTS

As previously stated, the infrastructure improvements were consolidated from the MOA Phase II and BCS Studies. However, it is important to note that other proposed developments contribute to the need for future improvements; i.e. Metropolitan Airports Commission (MAC), Metro Transit Park-and-Ride facilities and various Airport South redevelopments/developments. With City staff input, SRF developed a comprehensive list of infrastructure improvements for the entire Airport South Area bounded by I-494 on the north, the Minnesota River on the east and south, Old Shakopee Road on the south and TH 77 on the west. Attachment A includes Figure 1 (an aerial perspective of each improvement location) and Table 1 (a detailed description of each improvement).

## PRELIMINARY ENGINEERING AND CONCEPT SKETCHES

The preliminary engineering portion of the project provides the City with an initial layout for the new access to/from the northbound TH 77 CD roadway to/from the existing MOA. Given the location and complexity of the recommended improvement, the preliminary layout for the new connection to/from the TH 77 CD roadway consists of plan and profile views to check vertical and horizontal clearances, grades and utility clearances.

Previously, a concept layout was developed for the I-494/34th Avenue interchange as part of the MOA Phase II traffic study process. This layout was used to estimate the construction costs and review its feasibility to construct in the field. Additional concept sketches for the remaining improvements were developed on aerials to better tie in the existing curb lines and landmarks (i.e., Thunderbird Hotel and Mall of America, Phase II area improvements).

In preparation of the preliminary layouts and concept sketches, the following issues were addressed and resolved:

## TH 77 CD Roadway

- The new access to/from the northbound TH 77 CD roadway to/from the existing MOA required additional field review and surveying in order to determine the specific topography.
- The proposed northbound TH 77 exit ramp and its approach directly into the MOA roundabout maintains the 5 percent grade that exists today at this exit point.
- The bridged connection to the west parking structure of MOA maintains its existing tie-in point.

## TH 77/I-494 C-D Roadway

- There were no issues in laying out the new access from the northbound TH 77/eastbound I-494 CD roadway to Thunderbird Road. In addition, there were no problems with the new access from Thunderbird Road to the northbound TH 77/eastbound I-494 CD roadway (interim).
- For the permanent access from Thunderbird Road to the northbound TH 77/eastbound I-494 CD roadway, tunneling under 24th Avenue may cause some traffic control issues during construction. However, construction of this roadway is possible using a Conspan structure to create the tunnel under 24th Avenue. In-construction traffic control will be important in order to maintain roadway operations along 24th Avenue.
- A large retaining wall will be needed east of 24th Avenue. This will require Mn/DOT coordination for construction, as well as coordination with the MAC for right-of-way.

## Killebrew Drive and 22nd Avenue

• Based on the MOA Phase II Study, dual southbound left-turn lanes were recommended at this intersection. However, the need for dual eastbound left-turn lanes was raised. Due to intersection constraints, it is not feasible to construct both improvements, dual southbound and eastbound left-turn lanes. Further analysis was completed for the intersection and it was determined that either improvement on its own will improve operations equally. With the close spacing of 20th Avenue and 22nd Avenue, it is recommended to implement improvements on Killebrew Drive. Therefore, the dual eastbound left-turn lanes are included as an improvement in this study.

## I-494/24th Avenue Single-Point Interchange

- The westbound triple lefts proposed for this intersection were reviewed to determine their ability to turn within the intersection and not conflict with opposing left-turn movements.
- Review of this operation using Auto-Turn revealed no issues associated with this movement.

## I-494/34th Avenue Interchange

- The concept layout developed as part of the MOA Phase II Study was reviewed for its feasibility to construct in the field. This interchange concept with loops in the northwest and southwest quadrants does not present any major issues related to its construction.
- An additional operations analysis was conducted to determine the necessary interchange design if the LRT operations were modified to northbound/southbound green phase or priority operations. The results of the analysis indicate the need for loops in the northwest and southwest quadrants for year 2030 conditions, regardless of the LRT operations. Therefore, the study improvement at the I-494/34th Avenue interchange only includes the original concept layout with loops in the northwest and southwest quadrants. The operations analysis results are summarized later in this document.

## 86th Street Extension to 28th Avenue

- This improvement requires traversing a deep ravine. Crossing this ravine would require a substantial box culvert with extreme fill or a large bridge structure.
- This area is contained with the fish and wildlife refuge.
- Additional study of this improvement is necessary to determine the overall impacts associated.

## PRELIMINARY COST ESTIMATES

Based on the preliminary layouts and concept sketches, costs were developed for each improvement. All cost estimates include construction cost, design engineering, contract administration, and construction engineering (inspection, testing services, etc.), right-of-way and contingency costs. The following processes and assumptions were used to determine the cost estimates:

- Aerial photography was used to determine the existing curb lines, number and length of lanes, and any existing structures that could be used as a guide to determine the placement of the recommended improvements.
- Roadway improvements were drawn on top of the aerial photography to determine the removal quantities and new material quantities needed to complete the improvement.
- A field visit was conducted on February 28, 2006 to review the existing layouts at each improvement location and assess special considerations for computing the cost estimates.

- Based on field visit observations, retaining walls are needed in conjunction with improvements 5, 16 and 25, due to extreme grade changes where widening of the roadway is recommended. In addition, the 86th Street extension to 28th Avenue will need to cross a deep ravine. It was assumed that a bridge will be constructed to cross the ravine. Its cost is reflected in this improvement's estimate (improvement 28A).
- Drainage quantity, cost, and structure type are affected by the specific improvement. These quantities were based on the location of existing structures, located on the aerial photographs. The assumption is that all drainage structures that are being removed or replaced do not lie on the trunk line system and the lateral can be extended outward.
- Right-of-way quantities were based on property right-of-way lines provided by the City. Amounts stated were overtaken by the respective improvement.
- All quantities are based on major construction components. Therefore, a contingency cost was added for all minor items. A 20-percent contingency was added for an improvement that included widening or construction of a lane or roadway. A 15-percent contingency was added if no widening occurred. It should be noted that the I-494/34th Avenue Interchange includes a contingency cost of 25 percent due to the size of this improvement.
- A project delivery cost of 30 percent of total construction cost was typically added (some exceptions are presented).
- Cost estimation item prices are based on average bid prices for Mn/DOT year 2005.
- Quantity assumptions include:
  - All median removals are concrete walk, unless aerial photography shows trees/shrubs.
  - All pavements are bituminous (4" wear and 4" non-wear course mix), except where the existing pavement is concrete (8" depth assumed for new or replacement pavement).
  - Areas under new pavement contain 3'depth subgrade excavation, 10" depth aggregate base class 5, and 1.5' depth select granular borrow.
  - Each pay item has 5 percent added to the total quantity to account for radii and miscellaneous areas of sway in calculations.

Attachment B includes Table 2, which summarizes the cost estimate for each improvement. Attachment B also includes the concept sketches and their associated detailed cost breakdowns. Attachment C contains the preliminary layout for the TH 77 CD roadway connection to/from the current MOA.

## **COST ALLOCATIONS**

The purpose of the cost allocation analysis is to allocate future public improvement costs related to full build conditions (year 2030) of the Airport South AUAR area to the appropriate existing and future redevelopments/developments. The improvements recommended in the MOA Phase II and BCS Studies are a direct result of the proposed developments included in each project. The land use assumptions in both of these studies include additional adjacent developments (i.e., MAC developments, Metro Transit Park-and-Ride facilities and other Airport South area redevelopments/developments). While the future redevelopments and developments use up the available excess capacity of the existing intersection and roadway system, the existing developments in the area use a percentage of its initial capacity. This initial capacity usage was taken into account when allocating future improvement costs.

The following processes and assumptions were used to conduct the analysis:

## Existing Traffic Volumes

- Existing traffic volumes include turning movement counts collected April/May 2005.
- Existing traffic volumes were rerouted to account for the one-way American Boulevard improvement between 30th Avenue and 34th Avenue.
- Existing properties that are to be redeveloped by year 2030 were also subtracted from the base traffic volumes.
- Special consideration was given to properties that are currently not producing the amount of trips generated using the ITE Trip Generation handbook.

## **Future Volumes**

- An operations and trip distribution software package (Traffix for Windows) was used to determine the trip allocation percentages by intersection. The Traffix model results provide a detailed breakdown of percent trips at a given intersection based on the trip source (existing trips at an intersection or a particular developments trips passing through the same intersection).
- The base volumes developed were entered into the Traffix model as existing volumes.
- Traffix was used to distribute the trips from future developments/redevelopments. The output includes both the number and percent trips from each future development/redevelopment to each individual intersection.

## **Cost Allocation**

- Improvement costs are to be allocated based on the percent vehicles from each development/redevelopment using the intersection.
- Existing volumes were associated with specific developments where applicable.
- Existing volumes that could not be associated with an existing development are identified as a City cost.

Airport South Roadway Infrastructure Improvements The total improvement costs were allocated for two scenarios, Thursday (weekday) and Saturday (weekend). As a result of the cost allocation analysis, the following breakdowns are provided:

Existing

- City of Bloomington
- MOA
- IKEA
- Health Partners
- MAC

<u>Future</u>

- Proposed MOA II
- Proposed Bloomington Central Station (BCS)
- Proposed AUAR Redevelopments/Developments
- Proposed MAC Terminal Expansion
- Proposed Park-and-Ride Expansion

The following table presents a summary of the costs allocated to each development/ redevelopment:

	Scenario				
Development	Weekday (Thursday)	Weekend (Saturday)			
Existing					
City of Bloomington	\$20,429,651	\$22,327,527			
MOA	\$7,064,048	\$10,666,826			
IKEA	\$191,083	\$742,959			
Health Partners	\$2,973,453	\$0			
MAC	\$7,416,440	\$14,057,526			
Future					
Proposed MOA II	\$31,371,834	\$32,875,649			
Proposed BCS	\$25,874,408	\$35,093,766			
Proposed AUAR Developments	\$58,566,569	\$42,154,464			
Proposed MAC Terminal Expansion	\$11,331,414	\$7,632,189			
Proposed Park-and-Ride Expansion	\$5,220,570	\$4,888,565			
Total:	\$170,439,471	\$170,439,471			

Attachment D includes detailed matrices, which display the percent breakdown by existing and future trip percentages, as well as the related costs for each improvement. The first matrix presented is representative of all existing and future developments for the overall Airport South study area. The second matrix displays the existing trip allocations broken down by City responsibilities and existing developments, as well as the future developments grouped by project.

## SUPPLEMENTAL OPERATIONS ANALYSIS

## East Old Shakopee Road

In the MOA Phase II Study, the extension of 86th Street to 28th Avenue is assumed for future conditions. As requested, an additional operations analysis has been completed to determine the traffic impacts if this extension is not constructed. Based on our analysis results, it was identified that the absence of this improvement will have a direct impact on the intersections of Killebrew Drive/24th Avenue/East Old Shakopee Road and East Old Shakopee Road/ 28th Avenue. This analysis will determine if any additional improvements are needed, or if any previously recommended improvements (from the BCS Study) are no longer needed.

The year 2030 weekday p.m. peak hour traffic model (developed during MOA Phase II Study) was used for this analysis. At this time, a year 2030 weekday a.m. peak hour analysis had not been completed. However, preliminary review of the a.m. peak hour volumes was taken into account when determining the following recommendations:

East Old Shakopee Road from 24th Avenue to 30th Avenue

- Extend the third eastbound through lane from the existing lane drop just east of the Killebrew Drive/24th Avenue/East Old Shakopee Road intersection to 30th Avenue
- Construct a third westbound through lane from 30th Avenue to 28th Avenue

## Killebrew Drive/24th Avenue/East Old Shakopee Road

- Eliminate the northbound free right-turn lane
- Convert the right-most through lane into a right-turn lane (dual rights)

## East Old Shakopee Road/28th Avenue

- Eliminate the recommended improvements listed in BCS Study:
  - One southbound through lane
  - One northbound through lane
  - One northbound right-turn lane

## 34th Avenue Interchange

In the MOA Phase II Study, the 34th Avenue/I-494 interchange needs to be reconstructed under the year 2012 no build (Thursday) condition. As requested, an additional operations analysis has been completed to determine whether the recommended interchange design would change if LRT operations were modified to northbound/southbound green phase or priority operations. The year 2030 weekday p.m. peak hour traffic model (developed during MOA Phase II Study) was used for this analysis. At this time, a year 2030 weekday a.m. peak hour analysis has not been completed. However, preliminary review of the a.m. peak hour volumes was taken into account when completing this analysis:

## Existing Diamond with "All-Red" LRT Operations

- Turn lane improvements
  - SB dual rights at the North Ramp
  - EB and NB dual rights at the South Ramp
- Results
  - $\circ$  North Ramp Delay = 285 seconds/vehicle LOS F
  - South Ramp Delay = 80 seconds/vehicle LOS F (traffic spills back from this intersection into adjacent intersections to the south. Delay may actually be worse)

## Existing Diamond with "NB/SB Green Phase" LRT Operations

- Turn lane improvements
  - SB dual rights at the North Ramp
  - EB and NB dual rights at the South Ramp
- Results
  - $\circ$  North Ramp Delay = 90 seconds/vehicle LOS F
  - South Ramp Delay = 80 seconds/vehicle LOS F (traffic spills back from this intersection into adjacent intersections to the south. Delay may actually be worse, but not as bad as the previous scenario)

## Existing Diamond with "Priority" LRT Operations

- Turn lane improvements
  - SB dual rights at the North Ramp
  - EB and NB dual rights at the South Ramp
- Results
  - North Ramp Delay = 90 seconds/vehicle LOS F
  - South Ramp Delay = 80 seconds/vehicle LOS F (traffic does **NOT** spill back from this intersection into adjacent intersections to the south.)

The results of this analysis indicate that there is a capacity problem at the south ramp for all three scenarios. The additional analysis was completed assuming a loop in the southwest quadrant of the interchange:

Existing Diamond with Southwest Loop and "All-Red" LRT Operations

- Turn lane improvements
  - SB dual rights at the North Ramp
  - o EB and NB dual rights at the South Ramp

- Results
  - $\circ$  North Ramp Delay = 120 seconds/vehicle LOS F
  - o South Ramp Delay = 30 seconds/vehicle LOS C

## Existing Diamond with Southwest Loop and "NB/SB Green Phase" LRT Operations

- Turn lane improvements
  - SB dual rights at the North Ramp
  - EB and NB dual rights at the South Ramp
- Results
  - North Ramp Delay = 55 seconds/vehicle LOS D/E
  - $\circ$  South Ramp Delay = 15 seconds/vehicle LOS B

## Existing Diamond with Southwest Loop and "Priority" LRT Operations

- Turn lane improvements
  - SB dual rights at the North Ramp
  - o EB and NB dual rights at the South Ramp
- Results
  - $\circ$  North Ramp Delay = 50 seconds/vehicle LOS D
  - $\circ$  South Ramp Delay = 15 seconds/vehicle LOS B

Assuming "all-red" LRT signal timing, the addition of the loop in the southwest quadrant of the interchange improves the level of service at the south ramp from LOS F to LOS C, however operational problems will still develop at the north intersection. By eliminating the "all-red" LRT signal timing, levels of service at the north ramp will improve from LOS F to LOS D/E.

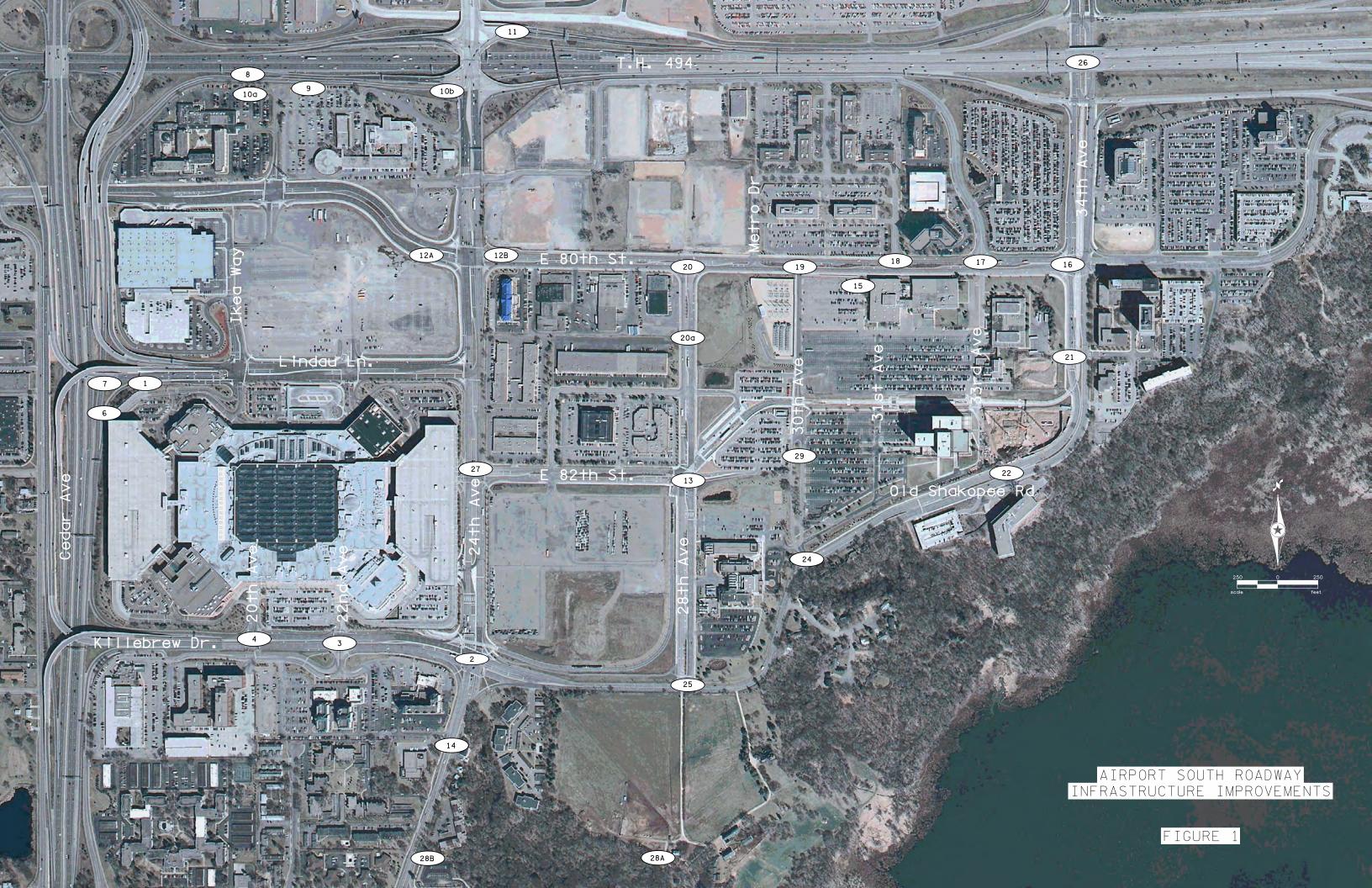
The results of this analysis indicate that the north and south ramp at the I-494/34th Avenue interchange will operate at acceptable levels of service during the weekday p.m. peak hour assuming the following:

- Construction of a loop in the southwest quadrant of the interchange
- Replace the "All-Red" LRT signal timing with "NB/SB Green or Priority" LRT signal operations
- Turn lane improvements
  - SB dual rights at the North Ramp
  - EB and NB dual rights at the South Ramp

It is important to note that at the time of this analysis, a weekday a.m. peak hour traffic model has yet to be completed. Based on our review of the estimated volume and knowledge of the intersection in previous studies, it is expected that the north ramp will not operate at acceptable levels of service without a loop in the northwest quadrant of the interchange.

# **Attachment A**

1/25/2007



### Airport South Roadway Infrastructure Improvements Based on City of Bloomington Staff Review

	omington Staff Review	
Hi-Mu Improvement	Location	Improvement
1	Northbound TH 77 to Eastbound Lindau Lane	Eliminate northbound TH 77 exit to eastbound Lindau Lane (Estimate included in improvement 6 & 7 cost estimate)
5	Lindau Lane/TH 77 Ramps/IKEA Way	Removal of concrete median on the west approach
		Extend the southbound right-turn lane (350 feet) - (Estimate included in Lowering Lindau Lane cost estimate)
6 & 7	TH 77 CD Roadway	Construct a new access from northbound TH 77 into current MOA parking lot Construct a new access from current MOA parking lot to the northbound TH 77 CD roadway
8	TH 77/I-494 CD Roadway	Construct a new access from northbound TH 77/eastbound I-494 CD roadway to Thunderbird Road (Year 2012 interim)
10A	TH 77/I-494 CD Roadway	Construct a new access from northbound TH 77/eastbound I-494 CD roadway to Thunderbird Road
10C	Thunderbird Road Roundabout	Construct a new roundabout from Thunderbird road to ramp off of TH 77
9	TH 77/I-494 CD Roadway	Construct a new access from Thunderbird Road to the eastbound I-494 CD roadway (Year 2012 interim)
10B	TH 77/I-494 CD Roadway	Construct a new access from Thunderbird Road to the eastbound I-494 CD roadway (permanent) Construct a new CD roadway from Thunderbird Road under 24th Avenue to east of 34th Avenue
2	Killebrew Drive and 24th Avenue	Extend the eastbound left-turn lanes (400 feet)
		Extend the westbound left-turn lane (500 feet) Extend the third westbound through lane back to the intersection of Old Shakopee Road/28th Avenue
	Kill harring Delan and ADe d Amarine	
3	Killebrew Drive and 22nd Avenue (City has provided layout)	Construct an additional eastbound left-turn lane (dual lefts) North approach may need to be modified to accommodate a hotel development in the future
4	Killebrew Drive and 20th Avenue	Construct an additional eastbound left-turn lane (dual lefts)
	(City has provided layout)	
11	I-494/24th Avenue Single-Point Interchange	Construct an additional westbound left-turn lane (triple lefts)
12A	American Boulevard/24th Avenue	Construct an additional southbound right-turn lane (dual rights). Extend both turn lanes to the I-494 single-point interchange
		Extend the eastbound left-turn lanes (500 feet)
12B	American Boulevard/24th Avenue	Extend the southbound outside left-turn lane (500 feet) Extend the westbound left-turn lanes (500 feet)
		Construct an additional westbound right-turn lane (triple rights). The westbound approach should have four lanes that begin at 28th Avenue Construct an additional eastbound right-turn lane (dual rights)
27	24th Avenue/82nd Street	Convert the right-turn/through lane into a trap right-turn lane (dual southbound rights)
16	American Boulevard/34th Avenue	Eliminate the southbound free right-turn lane Construct southbound dual right-turn lanes that extend from the I-494 South Ramps
		Eliminate the westbound free right-turn lane Construct westbound dual right-turn lanes
15	American Boulevard	Convert to a westbound one-way (three through lanes) roadway between 30th Avenue and 34th Avenue (Included in Airport South CIP)
17	American Boulevard/International Drive/33rd Avenue	Modify the westbound approach to provide a left-turn lane, two through lanes and a right-turn lane (this is with the one-way conversion)
		Modify the southbound approach to a right-turn only (free movement) (this is with the one-way conversion)
21	34th Avenue	Construct southbound right-in only into Northeast housing
26	I-494/34th Avenue Interchange	Reconstruction of interchange with LRT operations (folded diamond to west)
	I-494/34th Avenue Interchange	Reconstruction of interchange without LRT operations (to be determined) (pre-empt vs. priority)
18	American Boulevard/Metro Drive East	Construct a westbound left-turn lane (200 feet)
19	American Boulevard/30th Avenue	Install signal
19		Convert the eastbound through lanes into dual right-turn lanes
		Modify the westbound approach to provide dual left-turn lanes and two through lanes. The inside through lane will become the outside left-turn lane
		Modify the northbound approach to provide dual left-turn lanes
20	American Boulevard/28th Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane
20	American Boulevard/28th Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet)
20	American Boulevard/28th Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet
20	American Boulevard/28th Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane Replace north/south split phasing with protected left-turn phasing Construct an additional westbound left-turn lane (250 feet) (dual lefts)
		Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane Replace north/south split phasing with protected left-turn phasing
		Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound link through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane Replace north/south split phasing with protected left-turn phasing Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound through lane as a second left-turn lane
13	28th Avenue/82nd Street	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to a left-turn lane Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound through lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane
13	28th Avenue/82nd Street 28th Avenue/82nd Street Old Shakopee Road/33rd Avenue Old Shakopee Road/31st Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane Resplace north/south split phasing with protected left-turn phasing Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane Install signal Extend westbound right-turn lane to 300' Construct an eastbound left-turn lane (350 feet)
13 22 23	Z8th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct a southbound left-turn lane (250 feet) Replace north/south split phasing with protected left-turn phasing Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane Install signal Extend westbound right-turn lane to 300' Construct an eastbound left-turn lane (350 feet) The southbound left-turn lane (350 feet)
 	28th Avenue/82nd Street 28th Avenue/82nd Street Old Shakopee Road/33rd Avenue Old Shakopee Road/31st Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane Install signal Construct an eastbound left-turn lane (350 feet) The southbound approach will provide a shared left-turn/through lane and a right-turn lane Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane (350 feet) Install signal Construct dual eastbound left-turn lanes
13 22 23	28th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct a southbound left-turn lane Replace north/south split phasing with protected left-turn phasing Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane Install signal Extend westbound left-turn lane (350 feet) The southbound approach will provide a shared left-turn/through lane and a right-turn lane Install signal
13 22 23	28th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane (250 feet) Replace north/south split phasing with protected left-turn phasing Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane Install signal Construct an eastbound left-turn lane (350 feet) The southbound left-turn lane (350 feet) Install signal Construct an eastbound left-turn lane sand dual right-turn lane Install signal Construct dual eastbound left-turn lanes Install signal Construct dual eastbound left-turn lanes Install signal Construct dual eastbound left-turn lanes The isouthbound approach will provide dual left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Install signal Construct ale stop of the southbound left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second f
	28th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue         (to be consistent with BCS plans)	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct a southbound left-turn lane (250 feet) Restripe the astbound right-turn lane (250 feet) Construct a southbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane Restripe the eastbound right-turn lane (350 feet) The southbound approach will provide a shared left-turn/through lane and a right-turn lane Install signal Construct dual eastbound left-turn lanes The southbound approach will provide dual left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane
	28th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue         (to be consistent with BCS plans)	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane to (250 feet) (dual lefts) Restripe the eastbound right-turn lane to 200 feet Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane to 300' Construct an eastbound left-turn lane to 300' Construct dual eastbound left-turn lane (350 feet) The southbound approach will provide dual left-turn lanes and dual right-turn lane The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Install signal Install signal
	28th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue         (to be consistent with BCS plans)	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct as outhbound left-turn lane to 200 feet Construct as outhbound left-turn lane to 200 feet Construct as outhbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound through lane to a left-turn lane Restripe the eastbound through lane as a second left-turn lane Extend the northbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound through lane as a second left-turn lane Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a through/right-turn lane Extend westbound right-turn lane to 300' Construct an eastbound left-turn lane (350 feet) The southbound approach will provide a shared left-turn/through lane and a right-turn lane Construct dual eastbound left-turn lanes Install signal Construct dual eastbound left-turn lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound dual left-turn lanes, two through lanes and dual right-turn lanes Construct an eastbound dual left-turn lanes (250 feet) Construct an eastbound dual left-turn lanes (250 feet) Construct dual eastbound dual left-turn lanes, two through lanes and dual right-turn lanes Construct dual eastbound dieft-turn lanes (300 feet) Construct dual eastbound dieft-turn lanes (300 feet) Construct dual eastbound left-turn lanes (300 feet)
	28th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue         (to be consistent with BCS plans)	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct as outhbound left-turn lane to 200 feet Construct as additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a through/right-turn lane Restripe the eastbound right-turn lane (350 feet) Construct an eastbound left-turn lane (350 feet) Construct an eastbound left-turn lane (350 feet) Install signal Construct dual eastbound left-turn lanes The southbound approach will provide dual left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Install signal The new northbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct an additional southbound right-turn lanes (250 feet) Construct an additional southbound left-turn lanes (250 feet) Construct an additional southbound right-turn lanes (250 feet) Constr
13	Z8th Avenue/82nd Street         Z8th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue         (to be consistent with BCS plans)         Old Shakopee Road/28th Avenue         Old Shakopee Road/28th Avenue	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct an outbound left-turn lane to 200 feet Construct an outbound left-turn lane to 200 feet) Construct an outbound left-turn lane to 200 feet) Construct an outbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane to 300' Construct an eastbound right-turn lane to 300' Construct an eastbound right-turn lane (350 feet) Construct an eastbound right-turn lane (350 feet) Install signal Construct an eastbound left-turn lanes The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane Install signal The new northbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct an eadtional southbound right-turn lanes (250 feet) Construct an additional southbound right-turn lanes (250 feet) Construct an eadtional southbound right-turn lane (300 feet) Construct an eadtional westbound right-turn lane (300 feet) Construct an eadtional westbound left-turn lane (300 feet) Construct an eadtional westbound left-turn lane (300 feet) Construct an eadtional westbound left-turn lane (300 feet) (dual lefts)
	28th Avenue/82nd Street         28th Avenue/82nd Street         Old Shakopee Road/33rd Avenue         Old Shakopee Road/31st Avenue         (to be consistent with BCS plans)         Old Shakopee Road/30th Avenue         (to be consistent with BCS plans)	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane to 300' Construct an eastbound right-turn lane to 300' Construct an eastbound right-turn lane (350 feet) (dual lefts) Restripe the eastbound right-turn lane to 300' Construct an eastbound right-turn lane (350 feet) Construct an eastbound right-turn lane (350 feet) Install signal Construct an eastbound right-turn lane (350 feet) Install signal Construct dual eastbound left-turn lanes, two through lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane Install signal Construct dual eastbound right-turn lanes (250 feet) Construct an additional westbound right-turn lane, two through lanes and dual right-turn lanes Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lane (300 feet) Construct an eadtional westbound left-turn lane (300 feet) Constr
13	Image: Second Street         28th Avenue/82nd Street         28th Avenue         0Id Shakopee Road/31st Avenue         (to be consistent with BCS plans)         29         20         20         21         22         23         24         25         26         27         28         29         29         20         20         21         22         23         24         25         26         27         28         28         29         29         20         20         21         22         23         <	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct as southbound left-turn lane (250 feet) Restripe the northbound left-turn lane (250 feet) Restripe the southbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound through lane as a second left-turn lane Restripe the eastbound tright-turn lane (250 feet) (dual lefts) Restripe the eastbound through lane as a second left-turn lane Restripe the eastbound through lane as a second left-turn lane Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a through/right-turn lane Restripe the eastbound right-turn lane to 300' Construct an eastbound right-turn lane (350 feet) Construct an eastbound left-turn lanes The southbound approach will provide dual left-turn lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane Construct southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct an additional southbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (300 feet) Construct an eastbound ri
13	Image: Street interview of the second sec	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to a left-turn lane Extend the northbound left-turn lane (200 feet Construct a volubound left-turn lane Replace north/south split phasing with protected left-turn phasing Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane to 300' Install signal Extend twestbound left-turn lane to 300' Install signal Construct an eastbound left-turn lane (350 feet) The soutbbound approach will provide a shared left-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane Construct an eastbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct an eastbound left-turn lane (250 feet) The soutbbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct an eastbound left-turn lanes (300 feet) Construct an eastbound left-turn lanes (300 feet) Construct an eastbound left-turn lane (300 feet) Construct ane turbound sproach will provide lef
13	Image: Sector of Sector o	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane (250 feet) Restripe the northbound left-turn lane (250 feet) Restripe the northbound left-turn lane (250 feet) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a through/right-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane Restripe the eastbound right-turn lane (350 feet) Install signal Extend westbound left-turn lane (350 feet) The southbound approach will provide a shared left-turn lanes and dual right-turn lane Install signal Construct an eastbound left-turn lanes The southbound approach will provide dual left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn Install signal The new northbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) The new northbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct an eastbound right-turn lane (250 feet) Construct an eastbound right-turn lane (300 feet) Construct with two t
	Image: Street	Nodify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane is 200 feet) Construct an additional version left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is 030' Construct an eastbound left-turn lane (350 feet) The southbound approach will provide dual left-turn/through lane and a right-turn lane Install signal Construct dual eastbound left-turn lanes The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound right-turn lanes (250 feet) The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes is 100 feet with a second full-length left-turn lane Construct dual eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct dual eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lane
	Image: Sector of Sector o	Modify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound left-turn lane to 200 feet Construct as a southbound left-turn lane to 200 feet Construct as a southbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a through/right-turn lane Restripe the eastbound right-turn lane as a second left-turn lane Restripe the eastbound right-turn lane (350 feet) Construct an eastbound right-turn lane (350 feet) Construct an eastbound right-turn lane (350 feet) Construct an eastbound left-turn lane (350 feet) The southbound approach will provide a shared left-turn/through lane and a right-turn lane Install signal Construct an eastbound left-turn lanes The southbound approach will provide dual left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn Install signal Construct an eastbound left-turn lanes (250 feet) Construct southbound approach will provide dual left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn Install signal Construct an eastbound right-turn lane (260 feet) (dual rights) Construct an eastbound right-turn lane (300 feet) Reconstruct with two through lanes in each direction and a median with left and right-turn lanes * (86th Street to Cedear Avenue was included in the Airport South CIP)
	Image: Street	Nodify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet Construct a southbound left-turn lane is 200 feet) Construct an additional vestbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is a succed left-turn lane Restripe the eastbound right-turn lane is 030' Construct an eastbound left-turn lane (350 feet) The southbound approach will provide dual left-turn/through lane and a right-turn lane Install signal Construct dual eastbound left-turn lanes The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane Construct dual eastbound right-turn lanes (250 feet) The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes is 100 feet with a second full-length left-turn lane Construct dual eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct and approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes Construct dual eastbound right-turn lane (200 feet) Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (200 feet) Construct an eastbound right-turn lanes (200 feet) Construct an eastbound right-turn lane (200 feet) Construct an eastbound right lane lang (200 feet) Construct an eastbound right lane lang
	Image: Street	Nodfy the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane (250 feet) Construct a southbound left-turn lane is 200 feet Construct an additional westbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane is a second left-turn lane Extend the onthough lane as a second left-turn lane Restripe the eastbound right-turn lane (350 feet) Extend westbound right-turn lane (350 feet) The southbound approach will provide dual left-turn lanes and a right-turn lane Install signal Construct dual eastbound left-turn lanes (350 feet) The southbound approach will provide dual left-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn Inne Install signal The new ronthbound dual left-turn lanes, two through lanes and dual right-turn lanes Construct an eastbound right-turn lane (250 feet) Construct an eastbound dight-turn lane (250 feet) Construct an eastbound right-turn lane (250 feet) Construct an
	Image: Street	Nodify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restripe the northbound inside through lane to 200 feet Construct a southbound left-turn lane (250 feet) Construct as outhbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound inght-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a second field-turn lanee install signal Extend the onthbound approach was a second field-turn lanee (155 feet) Construct an eastbound left-turn lane (350 feet) The southbound approach will provide a shared left-turn/through lane and a right-turn lane (155 feet) Construct an eastbound left-turn lane (350 feet) The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane (201 feet) The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lane is 100 feet with a second full-length left-turn lane (201 feet)
13 22 23 23 24 24 25 25 25 26 26 28 28 28 28 28 29 20 20 20 20 20 20 20 20 20 20	Image: Street	Nodify the northbound approach to provide dual left-turn lanes Construct an easibound right-turn lane (250 feet) Restige the northbound make through lane to 200 feet Construct a southbound left-turn lane to 200 feet Construct an additional vestionund left-turn lane (250 feet) Construct an additional vestionund left-turn lane (250 feet) (dual lefts) Restige the easibound heye turn lane (250 feet) Construct an eaditional vestionund left-turn lane (250 feet) (dual lefts) Restige the easibound heye turn lane is a second flet-turn lane Install signal Construct an eaditional vestionund left-turn lane (250 feet) The southbound approach will provide dual left-turn lanes Install signal Construct an easibound heye turn lane (350 feet) The southbound approach will provide dual left-turn lanes and dual right-turn lanes Install signal Construct an easibound left-turn lanes (350 feet) The southbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lane is 100 feet with a second full-length left-turn Ine Install signal Construct dual easibound right-turn lanes (300 feet) Construct an easibound dual left-turn lanes (300 feet) Construct an easibound dual left-turn lanes (300 feet) Construct dual easibound right-turn lanes (300 feet) Construct dual easibound right-turn lanes (300 feet) Construct an easibound right-turn lane (300 feet) Construct dual easibound right-turn lanes (300 feet) Construct an easibound right-turn lane (300 feet) Construct with three through lanes in each direction and a median with left-turn lanes (16th Street to Cedear Avenue was included in the Ariport South CIP) Construct a southbound approach to provide dual left-turn lanes, two through lanes and a right-turn lanes Reconstru
13 22 23 23 24 24 25 25 25 25 25 26 28 28 28 28 28 29 20 20 20 20 20 20 20 20 20 20	Image: Sector of the sector	Nodify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Restrips the northbound single through lanes to a left-turn lane Extend the northbound His-turn lane to 200 feet Construct a southbound His-turn lane to 200 feet Construct as outhbound His-turn lane to 200 feet Construct as outhbound His-turn lane to 200 feet Construct as outhbound His-turn lane (250 feet) (dual lefts) Restrips the eastbound right-turn lane (250 feet) Construct an additional westbound His-turn lane (250 feet) Construct an eastbound right-turn lane (350 feet) The southbound and His-turn lane (350 feet) Construct an eastbound right-turn lane (350 feet) Construct an eastbound right-turn lane (350 feet) The southbound approach will provide dual left-turn/through lanes and a right-turn lane Construct dual eastbound left-turn lanes (350 feet) The southbound approach will provide dual left-turn/through lanes and dual right-turn lanes The southbound approach will provide dual left-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lanes Construct an additional southbound right-turn lanes (250 feet) Construct an eastbound right-turn lanes (250 feet) Construct an eastbound left-turn lanes (250 feet) Construct an eastbound right-turn lane (300 feet) (fual rights) Construct an eastbound right-turn lane (300 feet) (fual rights) Construct an eastbound right-turn lane (300 feet) (fual rights) Construct as eastbound right-turn lane (300 feet) (fual rights) Construct as eastbound right-turn lane (300 feet) (fual rights) Reconstruct with three through lanes in each direction and a median with left- and right-turn lanes (Included in linprovement #5 24 & 25 Reconstruct
13 22 23 23 24 24 25 25 25 25 26 29 28B 29 20A  30	Image: Sector of the sector	Nodify the northbound approach to provide dual left-turn lanes Construct an eastbound right-turn lane (250 feet) Resirge the northbound night-turn lane (250 feet) Construct a southbound left-turn lane 200 feet Construct a southbound left-turn lane 200 feet Construct a southbound left-turn lane (250 feet) (dual lefts) Resirge the eastbound right-turn lane as a through right-turn lane Restripe the eastbound right-turn lane (300 feet) Construct an eastbound left-turn lane (250 feet) (dual lefts) Restripe the eastbound right-turn lane as a through right-turn lane Install signal Extend versionund left-turn lane as a through right-turn lane (150 feet) Construct an eastbound left-turn lane is a through right-turn lane Install signal Construct an eastbound left-turn lane (300 feet) Construct an eastbound left-turn lane (300 feet) The southbound approach will provide dual left-turn lanes. The inside left-turn lane is 100 feet with a second full-term lane Install signal Construct an eastbound left-turn lanes Construct an eastbound left-turn lanes (200 feet) Construct an eastbound left-turn

## **Attachment B**

1/25/2007

### Airport South Roadway Infrastructure Improvements Based on City of Bloomington Staff Review

Table 2

SRF No. 0065622

•	loomington Staff Review	Table 2	
Mu Improvement	Location	Improvement	Total
1	Northbound TH 77 to Eastbound Lindau Lane	Eliminate northbound TH 77 exit to eastbound Lindau Lane (Estimate included in improvement 6 & 7 cost estimate)	see #'s 6 & 7
5	Lindau Lane/TH 77 Ramps/IKEA Way	Removal of concrete median on the west approach Extend the southbound right-turn lane (350 feet) - (Estimate included in Lowering Lindau Lane cost estimate)	see #31
6 & 7	TH 77 CD Roadway	Construct a new access from northbound TH 77 into current MOA parking lot	\$3,779,513
-		Construct a new access from current MOA parking lot to the northbound TH 77 CD roadway	\$510 540
8	TH 77/I-494 CD Roadway	Construct a new access from northbound TH 77/eastbound I-494 CD roadway to Thunderbird Road (Year 2012 interim)	\$512,549
10A	TH 77/I-494 CD Roadway	Construct a new access from northbound TH 77/eastbound I-494 CD roadway to Thunderbird Road (includes roundabout cost)	\$1,258,795
10C	Thunderbird Road Roundabout	Construct a new roundabout from Thunderbird road to ramp off of TH 77	\$1,178,231
9	TH 77/I-494 CD Roadway	Construct a new access from Thunderbird Road to the eastbound I-494 CD roadway (Year 2012 interim)	\$759,845
10B	TH 77/I-494 CD Roadway	Construct a new access from Thunderbird Road to the eastbound I-494 CD roadway (permanent) Construct a new CD roadway from Thunderbird Road under 24th Avenue to east of 34th Avenue	\$16,352,940
2	Killebrew Drive and 24th Avenue	Extend the eastbound left-turn lanes (400 feet)         Extend the westbound left-turn lane (500 feet)         Extend the thrid westbound through lane back to the intersection of Old Shakopee Road/28th Avenue	\$881,104
3	Killebrew Drive and 22nd Avenue (City has provided layout)	Construct an additional eastbound left-turn lane (dual lefts) North approach may need to be modified to accommodate a hotel development in the future	\$848,078
4	Killebrew Drive and 20th Avenue	Construct an additional eastbound left-turn lane (dual lefts)	\$1,860,924
	(City has provided layout)		\$646,121
11	I-494/24th Avenue Single-Point Interchange	Construct an additional westbound left-turn lane (triple lefts)	\$046,121
12A	American Boulevard/24th Avenue	Construct an additional southbound right-turn lane (dual rights). Extend both turn lanes to the I-494 single-point interchange Extend the eastbound left-turn lanes (500 feet)	\$1,524,296
12B	American Boulevard/24th Avenue	Extend the southbound outside left-turn lane (500 feet) Extend the westbound left-turn lanes (500 feet)	
		Construct an additional westbound right-turn lane (triple rights). The westbound approach should have four lanes that begin at 28th Avenue Construct an additional eastbound right-turn lane (dual rights)	\$4,076,987
27	24th Avenue/82nd Street	Convert the right-turn/through lane into a trap right-turn lane (dual southbound rights)	\$96,009
16	American Boulevard/34th Avenue	Eliminate the southbound free right-turn lane	
		Construct southbound dual right-turn lanes that extend from the I-494 South Ramps Eliminate the westbound free right-turn lane Construct westbound dual right-turn lanes	\$2,252,575
15	American Boulevard	Convert to a westbound one-way (three through lanes) roadway between 30th Avenue and 34th Avenue (Included in Airport South CIP)	\$474,094
17	American Boulevard/International Drive/33rd Avenue	Modify the westbound approach to provide a left-turn lane, two through lanes and a right-turn lane (this is with the one-way conversion)	\$170,138
		Modify the southbound approach to a right-turn only (free movement) (this is with the one-way conversion)	
21	34th Avenue	Construct southbound right-in only into Northeast housing	\$394,051
26	I-494/34th Avenue Interchange	Reconstruction of interchange with LRT operations (folded diamond to west)	\$59,652,091
	I-494/34th Avenue Interchange	Reconstruction of interchange without LRT operations (to be determined) (pre-empt vs. priority)	
18	American Boulevard/Metro Drive East	Construct a westbound left-turn lane (200 feet)	\$234,356
19	American Boulevard/30th Avenue	Install signal Convert the eastbound through lanes into dual right-turn lanes Modify the westbound approach to provide dual left-turn lanes and two through lanes. The inside through lane will become the outside left-turn lane	\$617,779
		Modify the westbound approach to provide dual rentrum ranes and two induginaries. The inside induginarie will become the duiside rentrum rane	
20	American Boulevard/28th Avenue	Construct an eastbound right-turn lane (250 feet)	
		Restripe the northbound inside through lane to a left-turn lane Extend the northbound left-turn lane to 200 feet	\$690,816
		Construct a southbound left-turn lane Replace north/south split phasing with protected left-turn phasing	
13	28th Avenue/82nd Street	Construct an additional westbound left-turn lane (250 feet) (dual lefts)	
		Restripe the eastbound through lane as a second left-turn lane Restripe the eastbound right-turn lane as a through/right-turn lane	\$2,207,017
22	Old Shakopee Road/33rd Avenue	Install signal Extend westbound right-turn lane to 300'	\$300,300
23	Old Shakopee Road/31st Avenue	Construct an eastbound left-turn lane (350 feet)	under construction w/ B
	(to be consistent with BCS plans)	The southbound approach will provide a shared left-turn/through lane and a right-turn lane	
24	Old Shakopee Road/30th Avenue (to be consistent with BCS plans)	Install signal Construct dual eastbound left-turn lanes The southbound approach will provide dual left-turn lanes and dual right-turn lanes. The inside left-turn lane is 100 feet with a second full-length left-turn lane	\$2,433,499
25	Old Shakopee Road/28th Avenue	Install signal Install signal The new northbound approach will provide dual left-turn lanes, two through lanes and dual right-turn lanes	
		Construct southbound dual left-turn lanes (250 feet) Construct an additional southbound right-turn lane (400 feet) (dual rights) Construct dual eastbound left-turn lanes (300 feet)	\$7,768,665
		Construct an eastbound right-turn lane (300 feet) Construct a westbound right-turn lane (300 feet) Construct an additional westbound left-turn lane (300 feet) (dual lefts)	
-	Old Shakopee Road, 24th Avenue to 30th Avenue (along the original section)	Reconstruct with two through lanes in each direction and a median with left- and right-turn lanes (this improvement is included in improvement #'s 24 & 25)	see #'s 24 & 25
14	Old Shakopee Road, Cedar Avenue to Killebrew Drive (south of Killebrew Drive)	Reconstruct with three through lanes in each direction and a median with left turn lanes * (86th Street to Cedar Avenue was included in the Airport South CIP)	\$10,295,604
28A	86th Street extension to EOSR to 28th Avenue (new connection across Kelley Farm)	Construct two lanes in each direction with a median and left- and right-turn lanes	\$28,261,141
28B	86th Street/Old Shakopee Road	Modify the westbound approach to provide dual left-turn lanes, two through lanes and a right-turn lane	\$1,608,896
29	30th Avenue	Reconstruct roadway to provide two through lanes in each direction and a median with left-turn lanes (Included in Airport South CIP)	\$1,677,315
20A	28th Ave	Construct a southbound lane between American Boulevard and 82nd Street	\$1,676,140
	ITS Improvements	Possibly electronic detection (Autoscope or similar technology) and dynamic signing	\$2,500,000
		Mall of America Area - Phase II New Signing Only	\$549,600
30	Wayfinding Signs	Mail of Affenca Afea - Fridse if New Signing Only	• • • • • • • •
30	Wayfinding Signs	Costs provided by others	\$12,900,000

1. Turn lane improvements at Killebrew Drive / 24th Avenue

. (Extend the eastbound left-turn lanes to 400 feet)

(Extend the westbound left-turn lanes to 500 feet)

(Extend the third westbound through lane back to the intersection of Old Shakopee Road/28th Ave)

Item		Unit	Total	
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$25,000.00	1	\$25,000.00
Remove Curb & Gutter	LIN FT	\$5.00	780	\$3,900.00
Mill Pavement	SQ YD	\$3.00	12570	\$37,710.00
Wearing Course Mix	TON	\$50.00	1840	\$92,000.00
Non-Wearing Course Mix	TON	\$45.00	240	\$10,800.00
Subgrade Excavation	CU YD	\$12.00	980	\$11,760.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	280	\$5,040.00
Select Granular Borrow (CV)	CU YD	\$10.00	490	\$4,900.00
Curb & Gutter	LIN FT	\$10.00	720	\$7,200.00
Drainage	LUMP SUM	\$140,000.00	1	\$140,000.00
Traffic Control	LUMP SUM	\$15,000.00	1	\$15,000.00
Turf Establishment	LUMP SUM	\$4,000.00	1	\$4,000.00
Signal Modification	LUMP SUM	\$150,000.00	1	\$150,000.00
Street Lighting Modification	LUMP SUM	\$50,000.00	1	\$50,000.00
Signing & Striping	LUMP SUM	\$7,500.00	1	\$7,500.00
Subtotal				\$564,810.00
Contingency & Minor Items (assume 20%)	\$112,962.00			
Total Construction Cost	\$677,772.00			
Project Delivery (assume 30% construction cost)				\$203,331.60
Total Improvement Cost				\$881,103.60

#### **Improvement 3**

1. Turn lane improvements at Killebrew Drive / 22nd Avenue

(Quantities are based on the Killebrew layout that was provided by the City)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$23,000.00	1	\$23,000.00
Remove Curb & Gutter	LIN FT	\$5.00	1740	\$8,700.00
Remove Concrete Walk	SQ FT	\$1.00	2910	\$2,910.00
Remove Pavement	SQ YD	\$2.00	630	\$1,260.00
Mill Pavement	SQ YD	\$3.00	6160	\$18,480.00
Subgrade Excavation	CU YD	\$12.00	1120	\$13,440.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	320	\$5,760.00
Select Granular Borrow (CV)	CU YD	\$10.00	560	\$5,600.00
Wearing Course Mix	TON	\$50.00	1060	\$53,000.00
Non-Wearing Course Mix	TON	\$45.00	270	\$12,150.00
Curb & Gutter	LIN FT	\$10.00	1580	\$15,800.00
Concrete Walk	SQ FT	\$2.50	1680	\$4,200.00
Truncated Dome	SQ FT	\$60.00	64	\$3,840.00
Drainage	LUMP SUM	\$135,000.00	1	\$135,000.00
Traffic Control	LUMP SUM	\$13,500.00	1	\$13,500.00
Turf Establishment	LUMP SUM	\$4,000.00	1	\$4,000.00
Signal Modification	LUMP SUM	\$195,000.00	1	\$195,000.00
Street Lighting Modification	LUMP SUM	\$20,000.00	1	\$20,000.00
Signing & Striping	LUMP SUM	\$8,000.00	1	\$8,000.00
Subtotal				\$543,640.00
Contingency & Minor Items (assume 20%)	\$108,728.00			
Total Construction Cost	\$652,368.00			
Project Delivery (assume 30% construction cost)				\$195,710.40
Total Improvement Cost				\$848,078.40

1. Turn lane, striping, and signal phasing improvements at Killebrew Drive / 20th Avenue

Item		Unit	Total		
Description	Unit	Cost	Quantities	Amount	
Mobilization	LUMP SUM	\$50,000.00	1	\$50,000.00	
Remove Curb & Gutter	LIN FT	\$5.00	1180	\$5,900.00	
Remove Curb & Gutter (Frontage Road)	LIN FT	\$5.00	1050	\$5,250.00	
Mill Pavement	SQ YD	\$3.00	2720	\$8,160.00	
Subgrade Excavation	CU YD	\$12.00	1540	\$18,480.00	
Aggregate Base (CV) Class 5	CU YD	\$18.00	430	\$7,740.00	
Select Granular Borrow (CV)	CU YD	\$10.00	770	\$7,700.00	
Wearing Course Mix	TON	\$50.00	740	\$37,000.00	
Non-Wearing Course Mix	TON	\$45.00	370	\$16,650.00	
Curb & Gutter	LIN FT	\$10.00	1560	\$15,600.00	
Truncated Dome	SQ FT	\$60.00	32	\$1,920.00	
Drainage	LUMP SUM	\$295,000.00	1	\$295,000.00	
Traffic Signal Phasing	EACH	\$10,000.00	1	\$10,000.00	
Traffic Control	LUMP SUM	\$30,000.00	1	\$30,000.00	
Signal Modification	LUMP SUM	\$125,000.00	1	\$125,000.00	
Street Lighting Modification	LUMP SUM	\$38,500.00	1	\$38,500.00	
Frontage Road	LIN FT	\$150.00	1200	\$180,000.00	
Sanitary Sewer Casing	LIN FT	\$300.00	1100	\$330,000.00	
Turf Establishment	LUMP SUM	\$4,000.00	1	\$4,000.00	
Signing & Striping	LUMP SUM	\$6,000.00	1	\$6,000.00	
Subtotal				\$1,192,900.00	
Contingency & Minor Items (assume 20%)				\$238,580.00	
Total Construction Cost				\$1,431,480.00	
Project Delivery (assume 30% construction cost)				\$429,444.00	
Total Improvement Cost				\$1.860.924.00	

#### Improvements 1, 6, & 7

1. Eliminate northbound TH 77 exit to eastbound Lindau Lane

2. New access from northbound TH 77 CD roadway to current MOA

3. New access from existing MOA parking ramp to the northbound TH77 CD roadway

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$100,000.00	1	\$100,000.00
Clearing & Grubbing	ACRE	\$6,000.00	1	\$6,000.00
Remove Curb & Gutter	LIN FT	\$5.00	5100	\$25,500.00
Remove Concrete Walk	SQ FT	\$1.00	4780	\$4,780.00
Remove Pavement	SQ YD	\$2.00	12750	\$25,500.00
Remove Retaining Wall	LIN FT	\$8.00	690	\$5,520.00
Concrete Walk	SQ FT	\$2.50	11890	\$29,725.00
Curb & Gutter	LIN FT	\$10.00	6350	\$63,500.00
8" Concrete Pavement	SQ YD	\$4.00	3680	\$14,720.00
Structural Concrete	CU YD	\$63.00	820	\$51,660.00
Wearing Course Mix	TON	\$50.00	1320	\$66,000.00
Non-Wearing Course Mix	TON	\$45.00	1320	\$59,400.00
Common Excavation	CU YD	\$12.00	10980	\$131,760.00
Subgrade Excavation	CU YD	\$12.00	10250	\$123,000.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	2850	\$51,300.00
Select Granular Borrow	CU YD	\$10.00	5130	\$51,300.00
Bridge - Pre-Cast Concrete	SQ FT	\$120.00	5000	\$600,000.00
CIP Retaining Wall	SQ FT	\$40.00	4800	\$192,000.00
Modular Block Retaining Wall	SQ FT	\$20.00	1630	\$32,600.00
Drainage	LUMP SUM	\$600,000.00	1	\$600,000.00
Traffic Control	LUMP SUM	\$60,000.00	1	\$60,000.00
Street Lighting Modification	LUMP SUM	\$73,500.00	1	\$73,500.00
Turf Establishment	LUMP SUM	\$25,000.00	1	\$25,000.00
Signing & Striping	LUMP SUM	\$30,000.00	1	\$30,000.00
Subtotal				\$2,422,765.00
Contingency & Minor Items (assume 20%)				\$484,553.00
Total Construction Cost				\$2,907,318.00
Project Delivery (assume 30% construction cost)				\$872,195.40
Total Improvement Cost				\$3,779,513.40

1. New access from to northbound TH 77 to eastbound I-494 CD roadway to Thunderbird Road (interim)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$7,000.00	1	\$7,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.1	\$600.00
Remove Curb & Gutter	LIN FT	\$5.00	940	\$4,700.00
Remove Pavement	SQ YD	\$2.00	1750	\$3,500.00
Concrete Walk	SQ FT	\$2.50	1130	\$2,825.00
Curb & Gutter	LIN FT	\$10.00	960	\$9,600.00
Wearing Course Mix	TON	\$50.00	180	\$9,000.00
Non-Wearing Course Mix	TON	\$45.00	180	\$8,100.00
Common Excavation	CU YD	\$12.00	1440	\$17,280.00
Subgrade Excavation	CU YD	\$12.00	1080	\$12,960.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	300	\$5,400.00
Select Granular Borrow (CV)	CU YD	\$10.00	540	\$5,400.00
CD Roadway Lighting	LUMP SUM	\$26,500.00	1	\$26,500.00
Drainage	LUMP SUM	\$42,500.00	1	\$42,500.00
Erosion Control	LUMP SUM	\$4,000.00	1	\$4,000.00
Traffic Control	LUMP SUM	\$5,000.00	1	\$5,000.00
Turf Establishment	LUMP SUM	\$2,500.00	1	\$2,500.00
Signing & Striping	LUMP SUM	\$4,000.00	1	\$4,000.00
Subtotal				\$170,865.00
Contingency & Minor Items (assume 20%)	\$34,173.00			
Total Construction Cost	\$205,038.00			
Project Delivery (assume 30% construction cost)				\$61,511.40
Right of Way Cost	SQ FT	\$40.00	6150	\$246,000.00
Total Improvement Cost				\$512,549.40

Improvement 9
1. New access from Thunderbird Road to northbound TH 77 to eastbound I-494 CD roadway (interim)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$9,500.00	1	\$9,500.00
Remove Curb & Gutter	LIN FT	\$5.00	1380	\$6,900.00
Remove Pavement	SQ YD	\$2.00	3500	\$7,000.00
Concrete Walk	SQ FT	\$2.50	4310	\$10,775.00
Curb & Gutter	LIN FT	\$10.00	1790	\$17,900.00
Wearing Course Mix	TON	\$50.00	370	\$18,500.00
Non-Wearing Course Mix	TON	\$45.00	370	\$16,650.00
Common Excavation	CU YD	\$12.00	500	\$6,000.00
Subgrade Excavation	CU YD	\$12.00	2540	\$30,480.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	710	\$12,780.00
Select Granular Borrow (CV)	CU YD	\$10.00	1280	\$12,800.00
CD Roadway Lighting	LUMP SUM	\$10,000.00	1	\$10,000.00
Drainage	LUMP SUM	\$60,000.00	1	\$60,000.00
Erosion Control	LUMP SUM	\$2,500.00	1	\$2,500.00
Traffic Control	LUMP SUM	\$6,000.00	1	\$6,000.00
Turf Establishment	LUMP SUM	\$2,500.00	1	\$2,500.00
Signing & Striping	LUMP SUM	\$5,000.00	1	\$5,000.00
Subtotal				\$235,285.00
Contingency & Minor Items (assume 20%)	\$47,057.00			
Total Construction Cost	\$282,342.00			
Project Delivery (assume 30% construction cost)				\$84,702.60
Right of Way Cost	SQ FT	\$40.00	9820	\$392,800.00
Total Improvement Cost				\$759,844.60

#### Improvement 10A

1. New access from northbound TH77 to eastbound I-494 CD roadway to Thunderbird Road (Construct new ramp from northbound TH77 to eastbound I-494 CD roadway to Thunderbird Road)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$10,000.00	1	\$10,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.5	\$3,000.00
Remove Curb & Gutter	LIN FT	\$5.00	900	\$4,500.00
Remove Pavement	SQ YD	\$2.00	3090	\$6,180.00
Concrete Walk	SQ FT	\$2.50	12390	\$30,975.00
Curb & Gutter	LIN FT	\$10.00	3180	\$31,800.00
8" Concrete Pavement (Ramp)	SQ YD	\$4.00	1410	\$5,640.00
Structural Concrete	CU YD	\$63.00	310	\$19,530.00
Subgrade Excavation	CU YD	\$12.00	2290	\$27,480.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	640	\$11,520.00
Select Granular Borrow	CU YD	\$10.00	1150	\$11,500.00
Street Lighting Modification	LUMP SUM	\$28,000.00	1	\$28,000.00
Traffic Control	LUMP SUM	\$9,000.00	1	\$9,000.00
Turf Establishment	LUMP SUM	\$6,000.00	1	\$6,000.00
Drainage	LUMP SUM	\$70,000.00	1	\$70,000.00
Subtotal				\$275,125.00
Contingency & Minor Items (assume 20%)	\$55,025.00			
Total Construction Cost	\$330,150.00			
Project Delivery (assume 30% construction cost)				\$99,045.00
Right of Way Cost <sup>1</sup>	SQ FT	\$40.00	20740	\$829,600.00
Total Improvement Cost	\$1,258,795.00			

1. Right of Way quantity does not include area of proposed Mn/DOT roadway for TH77. Assumed that roadway was completed.

#### Improvement 10B

 New access from Thunderbird Road to northbound TH 77 to eastbound I-494 CD roadway (permanent) (Construct a new ramp from Thunderbird Road to the northbound TH77 to the eastbound I-494 roadway)
 Construction of a new CD roadway under 24th Avenue to east of 34th Avenue

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$360,000.00	1	\$360,000.00
Clearing & Grubbing	ACRE	\$6,000.00	1.8	\$10,800.00
Remove Curb & Gutter	LIN FT	\$5.00	1590	\$7,950.00
Remove Pavement	SQ YD	\$2.00	8060	\$16,120.00
Concrete Walk	SQ FT	\$2.50	4330	\$10,825.00
Curb & Gutter	LIN FT	\$10.00	6700	\$67,000.00
8" Concrete Pavement (Ramp)	SQ YD	\$4.00	4790	\$19,160.00
Structural Concrete	CU YD	\$63.00	1060	\$66,780.00
Common Excavation	CU YD	\$12.00	42180	\$506,160.00
Subgrade Excavation	CU YD	\$12.00	8070	\$96,840.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	2240	\$40,320.00
Select Granular Borrow (CV)	CU YD	\$10.00	4040	\$40,400.00
Wearing Course Mix	TON	\$50.00	500	\$25,000.00
Non-Wearing Course Mix	TON	\$45.00	500	\$22,500.00
Bridge/Tunnel (Conspan 3-sided Structure)	SQ FT	\$250.00	9000	\$2,250,000.00
Steel Sheet Piling (temporary)	SQ FT	\$20.00	32140	\$642,800.00
Sheet Piling Anchors	EACH	\$2,000.00	80	\$160,000.00
CIP Retaining Wall	SQ FT	\$40.00	28200	\$1,128,000.00
MAC LIGHT SUPPORT BRIDGE OVER I-4943	LUMP SUM	\$500,000.00	1	\$500,000.00
Traffic Barrier	LUMP SUM	\$7,500.00	1	\$7,500.00
CD Tunnel Lighting	LUMP SUM	\$50,000.00	1	\$50,000.00
CD Roadway Lighting	LUMP SUM	\$90,000.00	1	\$90,000.00
Drainage	LUMP SUM	\$2,200,000.00	1	\$2,200,000.00
Erosion Control	LUMP SUM	\$90,000.00	1	\$90,000.00
Staging & Traffic Control	LUMP SUM	\$400,000.00	1	\$400,000.00
Turf Establishment	LUMP SUM	\$60,000.00	1	\$60,000.00
Signing & Striping	LUMP SUM	\$100,000.00	1	\$100,000.00
Subtotal				\$8,968,155.00
Contingency & Minor Items (assume 20%)				\$1,793,631.00
Total Construction Cost				\$10,761,786.00
Project Delivery (assume 31% construction cost) <sup>1</sup>				\$3,336,153.66
Easement	SQ FT	\$20.00	20780	\$415,600.00
Right of Way Cost <sup>2</sup>	SQ FT	\$40.00	45985	\$1,839,400.00
Total Improvement Cost				\$16,352,939.66

1. Additional cost to account for coordinating & permitting with Mn/DOT and FHWA.

2. Right of Way quantity does not include area of proposed Mn/DOT roadway for TH77. Assumed that roadway was completed.

3. Subject to FAA & Mn/DOT Aeronautics approval. Price includes bridge and lighting components.

#### Improvement 10C

#### 1. Thunderbird Road Roundabout

(Construct a new roundabout from Thunderbird road to ramp off of TH 77)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$8,000.00	1	\$8,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.1	\$600.00
Remove Curb & Gutter	LIN FT	\$5.00	630	\$3,150.00
Remove Pavement	SQ YD	\$2.00	3250	\$6,500.00
Concrete Walk	SQ FT	\$2.50	7660	\$19,150.00
Curb & Gutter	LIN FT	\$10.00	1420	\$14,200.00
Subgrade Excavation	CU YD	\$12.00	2250	\$27,000.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	560	\$10,080.00
Select Granular Borrow	CU YD	\$10.00	1130	\$11,300.00
Wearing Course Mix	TON	\$50.00	510	\$25,500.00
Non-Wearing Course Mix	TON	\$45.00	510	\$22,950.00
Traffic Control	LUMP SUM	\$2,000.00	1	\$2,000.00
Turf Establishment	LUMP SUM	\$1,000.00	1	\$1,000.00
Drainage	LUMP SUM	\$35,000.00	1	\$35,000.00
Subtotal				\$186,430.00
Contingency & Minor Items (assume 20%)				\$37,286.00
Total Construction Cost				\$223,716.00
Project Delivery (assume 30% construction cost)				\$67,114.80
Right of Way Cost	SQ FT	\$40.00	22185	\$887,400.00
Total Improvement Cost				\$1,178,230.80

1. Westbound I-494 to the southbound 24th Avenue, triple left-turn lane (Construct an additional westbound left-turn lane (triple lefts))

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$18,000.00	1	\$18,000.00
Remove Curb & Gutter	LIN FT	\$5.00	1760	\$8,800.00
Remove Concrete Walk	SQ FT	\$1.00	21740	\$21,740.00
Remove Pavement	SQ YD	\$2.00	560	\$1,120.00
Curb & Gutter	LIN FT	\$10.00	1460	\$14,600.00
Concrete Walk	SQ FT	\$2.50	9020	\$22,550.00
8" Concrete Pavement (Ramp)	SQ YD	\$4.00	1540	\$6,160.00
Structural Concrete	CU YD	\$63.00	350	\$22,050.00
Common Excavation	CU YD	\$12.00	2000	\$24,000.00
Subgrade Excavation	CU YD	\$12.00	1000	\$12,000.00
Aggregate Base Class 5 (CV)	CU YD	\$18.00	600	\$10,800.00
Select Granular Borrow (CV)	CU YD	\$10.00	700	\$7,000.00
Truncated Dome	SQ FT	\$60.00	96	\$5,760.00
Chain Link Fence	LIN FT	\$10.00	460	\$4,600.00
Drainage	LUMP SUM	\$105,000.00	1	\$105,000.00
Signal Modification	LUMP SUM	\$75,000.00	1	\$75,000.00
Street Lighting Modification	LUMP SUM	\$20,000.00	1	\$20,000.00
Erosion Control	LUMP SUM	\$9,000.00	1	\$9,000.00
Traffic Control	LUMP SUM	\$11,000.00	1	\$11,000.00
Turf Establishment	LUMP SUM	\$5,000.00	1	\$5,000.00
Signing & Striping	LUMP SUM	\$10,000.00	1	\$10,000.00
Subtotal	\$414,180.00			
Contingency & Minor Items (assume 20%)	\$82,836.00			
Total Construction Cost				\$497,016.00
Project Delivery (assume 30% construction cost)	\$149,104.80			
Total Improvement Cost				\$646,120.80

#### Improvement 12 A

1. Turn lane and signal improvements at American Boulevard/24th Avenue (West of 24th Avenue)

(Extend the eastbound left-turn lanes to 500 feet)

(Construct an additional southbound right-turn lane. Extend both turn lanes to the I-494 single-point interchange)

(Construct an additional eastbound right-turn lane. (Dual Rights))

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$34,000.00	1	\$34,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.3	\$1,800.00
Remove Curb & Gutter	LIN FT	\$5.00	1790	\$8,950.00
Remove Concrete Walk	SQ FT	\$1.00	13860	\$13,860.00
Mill Pavement	SQ YD	\$3.00	8280	\$24,840.00
Remove Pavement	SQ YD	\$2.00	290	\$580.00
Curb & Gutter	LIN FT	\$10.00	2330	\$23,300.00
Concrete Walk	SQ FT	\$2.50	22280	\$55,700.00
Wearing Course Mix	TON	\$50.00	1350	\$67,500.00
Non-Wearing Course Mix	TON	\$45.00	490	\$22,050.00
Common Excavation	CU YD	\$12.00	1800	\$21,600.00
Subgrade Excavation	CU YD	\$12.00	3040	\$36,480.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	1050	\$18,900.00
Select Granular Base (CV)	CU YD	\$10.00	1520	\$15,200.00
Truncated Dome	SQ FT	\$60.00	64	\$3,840.00
Drainage	LUMP SUM	\$205,000.00	1	\$205,000.00
Signal Modification	LUMP SUM	\$140,000.00	1	\$140,000.00
Street Lighting Modification	LUMP SUM	\$63,000.00	1	\$63,000.00
Traffic Control	LUMP SUM	\$20,000.00	1	\$20,000.00
Signing & Striping	LUMP SUM	\$10,000.00	1	\$10,000.00
Turf Establishment	LUMP SUM	\$10,000.00	1	\$10,000.00
Traffic Signal Phasing	EACH	\$5,000.00	1	\$5,000.00
Subtotal	\$801,600.00			
Contingency & Minor Items (assume 20%)	\$160,320.00			
Total Construction Cost	\$961,920.00			
Project Delivery (assume 30% construction cost)	\$288,576.00			
Right of Way Cost	SQ FT	\$40.00	6845	\$273,800.00
Total Improvement Cost				\$1,524,296.00

#### Improvement 12 B

1. Turn lane and signal improvements at American Boulevard/24th Avenue (East of 24th Avenue) (Extend the southbound left most left-turn lane to 500 feet) (Extend the westbound left-turn lanes to 500 feet)

(Construct an additional westbound right-turn lane to provide three westbound right-turn lanes)

(The westbound approach should have four approach lanes that begin at 28th Avenue)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$50,000.00	1	\$50,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.2	\$1,200.00
Remove Curb & Gutter	LIN FT	\$5.00	3460	\$17,300.00
Remove Concrete Walk	SQ FT	\$1.00	25170	\$25,170.00
Mill Pavement	SQ YD	\$3.00	7420	\$22,260.00
Remove Pavement	SQ YD	\$2.00	260	\$520.00
Curb & Gutter	LIN FT	\$10.00	4920	\$49,200.00
Concrete Walk	SQ FT	\$2.50	43110	\$107,775.00
Wearing Course Mix	TON	\$50.00	2480	\$124,000.00
Non-Wearing Course Mix	TON	\$45.00	1460	\$65,700.00
Common Excavation	CU YD	\$12.00	4800	\$57,600.00
Subgrade Excavation	CU YD	\$12.00	4670	\$56,040.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	1500	\$27,000.00
Select Granular Base (CV)	CU YD	\$10.00	2330	\$23,300.00
Truncated Dome	SQ FT	\$60.00	96	\$5,760.00
Drainage	LUMP SUM	\$295,000.00	1	\$295,000.00
Signal Modification	LUMP SUM	\$140,000.00	1	\$140,000.00
Street Lighting Modification	LUMP SUM	\$45,500.00	1	\$45,500.00
Traffic Control	LUMP SUM	\$30,000.00	1	\$30,000.00
Signing & Striping	LUMP SUM	\$15,000.00	1	\$15,000.00
Turf Establishment	LUMP SUM	\$10,000.00	1	\$10,000.00
Traffic Signal Phasing	EACH	\$5,000.00	1	\$5,000.00
Subtotal				\$1,173,325.00
Contingency & Minor Items (assume 20%)				\$234,665.00
Total Construction Cost				\$1,407,990.00
Project Delivery (assume 30% construction cost)				\$422,397.00
Right of Way Cost	SQ FT	\$40.00	56165	\$2,246,600.00
Total Improvement Cost				\$4,076,987.00

## Improvement 13 \*\*\*

1. Turn lane improvements at 28th Avenue/82nd Street

(Construct an additional westbound left-turn lane)	)
--	---

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$21,000.00	1	\$21,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.7	\$4,200.00
Remove Bituminous Pavement	SQ YD	\$2.00	1220	\$2,440.00
Remove Curb & Gutter	LIN FT	\$5.00	2090	\$10,450.00
Remove Concrete Walk	SQ FT	\$1.00	1720	\$1,720.00
Mill Bituminous Pavement	SQ YD	\$1.65	1080	\$1,782.00
Wearing Course Mix	TON	\$50.00	970	\$48,500.00
Non-Wearing Course Mix	TON	\$45.00	970	\$43,650.00
Curb & Gutter	LIN FT	\$10.00	2840	\$28,400.00
Subgrade Excavation	CU YD	\$12.00	2740	\$32,880.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	800	\$14,400.00
Select Granular Borrow	CU YD	\$10.00	1370	\$13,700.00
Truncated Dome	SQ FT	\$60.00	64	\$3,840.00
Drainage	LUMP SUM	\$105,000.00	1	\$105,000.00
Signing & Striping	LUMP SUM	\$4,000.00	1	\$4,000.00
Signal Modification	LUMP SUM	\$135,000.00	1	\$135,000.00
Traffic Control	LUMP SUM	\$13,000.00	1	\$13,000.00
Turf Establishment	LUMP SUM	\$3,500.00	1	\$3,500.00
Concrete Walk	SQ FT	\$2.50	3420	\$8,550.00
Subtotal				\$496,012.00
Contingency & Minor Items (assume 15%)				\$74,401.80
Total Construction Cost				\$570,413.80
Project Delivery (assume 25% construction cost)				\$142,603.45
Right of Way Cost	SQ FT	\$40.00	37350	\$1,494,000.00
Total Improvement Cost				\$2,207,017.25

\*\*\* Cost for Improvement 13 is anticipated to be fully funded by Metro Transit.

#### 1. Old Shakopee Road improvements between Killebrew Drive and TH77 ( Reconstruct with three through lanes in each direction and a median with left-turn lanes)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$120,000.00	1	\$120,000.00
Remove Curb & Gutter	LIN FT	\$5.00	6830	\$34,150.00
Mill Pavement	SQ YD	\$3.00	19720	\$59,160.00
Subgrade Excavation	CU YD	\$12.00	36400	\$436,800.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	10120	\$182,160.00
Select Granular Borrow	CU YD	\$10.00	18200	\$182,000.00
Curb & Gutter	LIN FT	\$10.00	6830	\$68,300.00
Wearing Course Mix	TON	\$50.00	6520	\$326,000.00
Non-Wearing Course Mix	TON	\$45.00	4010	\$180,450.00
Signal Modification	LUMP SUM	\$220,000.00	1	\$220,000.00
Street Lighting Modification	LUMP SUM	\$250,000.00	1	\$250,000.00
Truncated Dome	SQ FT	\$60.00	448	\$26,880.00
Traffic Control	LUMP SUM	\$75,000.00	1	\$75,000.00
Turf Establishment	LUMP SUM	\$35,000.00	1	\$35,000.00
Drainage <sup>1</sup>	LUMP SUM	\$750,000.00	1	\$750,000.00
Subtotal	\$2,945,900.00			
Contingency & Minor Items (assume 20%)	\$589,180.00			
Total Construction Cost				\$3,535,080.00
Project Delivery (assume 30% construction cost)				\$1,060,524.00
Right of Way Cost <sup>2, 3</sup>	LUMP SUM	\$5,700,000.00	1	\$5,700,000.00
Total Improvement Cost				\$10,295,604.00

1. Do not have graphics for improvement. Assumed drainage structures to be installed every 300' along

each side of roadway including median.

2. ROW width assumed to be 96' (48' both sides from centerline of existing roadway)

3. Assume total takes. The cost of Right of Way was supplied by the City of Bloomington.

#### Improvement 15

1. American Boulevard conversion to a westbound one-way between 30th Ave. and 34th Avenue with three through lanes

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$13,000.00	1	\$13,000.00
Remove Curb & Gutter	LIN FT	\$5.00	2680	\$13,400.00
Remove Concrete Walk	SQ FT	\$1.00	2100	\$2,100.00
Remove Pavement	SQ YD	\$2.00	6210	\$12,420.00
Curb & Gutter	LIN FT	\$10.00	470	\$4,700.00
Topsoil Borrow	CU YD	\$14.00	4000	\$56,000.00
Turf Establishment	LUMP SUM	\$5,000.00	1	\$5,000.00
Traffic Control	LUMP SUM	\$8,000.00	1	\$8,000.00
Signal Modification	LUMP SUM	\$75,000.00	1	\$75,000.00
Street Lighting Modification	LUMP SUM	\$50,000.00	1	\$50,000.00
Turf Establishment	LUMP SUM	\$1,500.00	1	\$1,500.00
Drainage	LUMP SUM	\$76,000.00	1	\$76,000.00
Subtotal				\$317,120.00
Contingency & Minor Items (assume 15%)				\$47,568.00
Total Construction Cost				\$364,688.00
Project Delivery (assume 30% construction cost)				\$109,406.40
Total Improvement Cost				\$474,094.40

1. Turn lane improvements at American Boulevard/34th Avenue (listed in Bloomington Central Station Traffic Study)

(Eliminate the southbound free right-turn lane)

(Construct southbound dual right-turn lanes that extend from the I-494 South Ramps)

(Eliminate the westbound free right-turn lane)

(Construct westbound dual right-turn lanes)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$40,000.00	1	\$40,000.00
Remove Concrete Walk	SQ FT	\$1.00	19780	\$19,780.00
Mill Pavement	SQ YD	\$3.00	8040	\$24,120.00
Remove Curb & Gutter	LIN FT	\$5.00	2770	\$13,850.00
Remove Pavement	SQ YD	\$2.00	560	\$1,120.00
Curb & Gutter	LIN FT	\$10.00	2080	\$20,800.00
Wearing Course Mix	TON	\$50.00	1700	\$85,000.00
Non-Wearing Course Mix	TON	\$45.00	670	\$30,150.00
Subgrade Excavation	CU YD	\$12.00	3260	\$39,120.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	910	\$16,380.00
Select Granular Borrow	CU YD	\$10.00	1630	\$16,300.00
Concrete Walk	SQ FT	\$2.50	9030	\$22,575.00
Signal Modification	LUMP SUM	\$220,000.00	1	\$220,000.00
Street Lighting Modification	LUMP SUM	\$60,000.00	1	\$60,000.00
Truncated Dome	SQ FT	\$60.00	144	\$8,640.00
Modular Block Retaining Wall	SQ FT	\$20.00	3810	\$76,200.00
Drainage	LUMP SUM	\$250,000.00	1	\$250,000.00
Traffic Control	LUMP SUM	\$25,000.00	1	\$25,000.00
Turf Establishment	LUMP SUM	\$8,000.00	1	\$8,000.00
Signing & Striping	LUMP SUM	\$10,000.00	1	\$10,000.00
Subtotal				\$987,035.00
Contingency & Minor Items (assume 20%)				\$197,407.00
Total Construction Cost				\$1,184,442.00
Project Delivery (assume 30% construction cost)				\$355,332.60
Right of Way Cost	SQ FT	\$40.00	17820	\$712,800.00
Total Improvement Cost				\$2,252,574.60

#### Improvement 17

1. Turn lane improvements at American Boulevard/ International Drive/ 33rd Avenue

(The westbound approach will include a left-turn lane, two through lanes and a right-turn lane)

(The southbound approach will be a right-turn only (free movement))

(Convert to a right-in/right-out/eastbound left-in access)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$2,500.00	1	\$2,500.00
Remove Pavement	SQ YD	\$2.00	360	\$720.00
Remove Concrete Walk	SQ FT	\$1.00	2170	\$2,170.00
Remove Curb & Gutter	LIN FT	\$5.00	690	\$3,450.00
Concrete Walk	SQ FT	\$2.50	8490	\$21,225.00
Truncated Dome	SQ FT	\$60.00	64	\$3,840.00
Traffic Control	LUMP SUM	\$1,500.00	1	\$1,500.00
Drainage	LUMP SUM	\$70,000.00	1	\$70,000.00
Turf Establishment	LUMP SUM	\$1,000.00	1	\$1,000.00
Curb & Gutter	LIN FT	\$10.00	740	\$7,400.00
Subtotal				\$113,805.00
Contingency & Minor Items (assume 15%)	\$17,070.75			
Total Construction Cost				\$130,875.75
Project Delivery (assume 30% construction cost)				\$39,262.73
Total Improvement Cost				\$170,138.48

1. Turn lane improvements at American Boulevard/ Metro Drive East

(Construct a westbound left-turn lane (200 feet))

(The westbound approach will include a left-turn lane, three through lanes and a right-turn lane)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$6,500.00	1	\$6,500.00
Clearing & Grubbing	ACRE	\$6,000.00	0.3	\$1,800.00
Mill Pavement	SQ YD	\$3.00	2490	\$7,470.00
Remove Curb & Gutter	LIN FT	\$5.00	1050	\$5,250.00
Curb & Gutter	LIN FT	\$10.00	470	\$4,700.00
Wearing Course Mix	TON	\$50.00	820	\$41,000.00
Non-Wearing Course Mix	TON	\$45.00	240	\$10,800.00
Subgrade Excavation	CU YD	\$12.00	1260	\$15,120.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	350	\$6,300.00
Select Granular Borrow (CV)	CU YD	\$10.00	640	\$6,400.00
Truncated Dome	SQ FT	\$60.00	32	\$1,920.00
Drainage	LUMP SUM	\$40,000.00	1	\$40,000.00
Traffic Control	LUMP SUM	\$4,000.00	1	\$4,000.00
Turf Establishment	LUMP SUM	\$2,500.00	1	\$2,500.00
Signing & Striping	LUMP SUM	\$3,000.00	1	\$3,000.00
Subtotal	\$156,760.00			
Contingency & Minor Items (assume 15%)	\$23,514.00			
Total Construction Cost	\$180,274.00			
Project Delivery (assume 30% construction cost)	\$54,082.20			
Total Improvement Cost				\$234,356.20

#### Improvement 19

1. New traffic signal and turn lane improvements at American Boulevard/30th Avenue

(Installation of a traffic signal)

(Convert the eastbound through lanes into dual right-turn lanes)

(The westbound approach will include dual left-turn lanes and two through lanes. The inside through lane will end and

become the outside left-turn lane at this intersection.)

(The northbound approach will include dual left-turn lanes)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$17,000.00	1	\$17,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.3	\$1,800.00
Remove Pavement	SQ YD	\$2.00	250	\$500.00
Remove Curb & Gutter	LIN FT	\$5.00	600	\$3,000.00
Mill Pavement	SQ YD	\$3.00	1900	\$5,700.00
Concrete Walk	SQ FT	\$1.00	1510	\$1,510.00
Curb & Gutter	LIN FT	\$10.00	1010	\$10,100.00
Wearing Course Mix	TON	\$50.00	430	\$21,500.00
Non-Wearing Course Mix	TON	\$45.00	180	\$8,100.00
Subgrade Excavation	CU YD	\$12.00	1030	\$12,360.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	290	\$5,220.00
Select Granular Borrow	CU YD	\$10.00	510	\$5,100.00
Truncated Dome	SQ FT	\$60.00	64	\$3,840.00
Drainage	LUMP SUM	\$100,000.00	1	\$100,000.00
Signing & Striping	LUMP SUM	\$1,500.00	1	\$1,500.00
Traffic Control	LUMP SUM	\$10,000.00	1	\$10,000.00
Turf Establishment	LUMP SUM	\$6,000.00	1	\$6,000.00
Traffic Signal	EACH	\$200,000.00	1	\$200,000.00
Subtotal				\$413,230.00
Contingency & Minor Items (assume 15%)	\$61,984.50			
Total Construction Cost	\$475,214.50			
Project Delivery (assume 30% construction cos	st)			\$142,564.35
Total Improvement Cost				\$617,778.85

1. Turn lane, striping, and signal phasing improvements at American Boulevard/ 28th Avenue

(Construct an eastbound right-turn lane (250 feet))

(Restripe the northbound inside through lane to a left-turn/through lane)

(Extend the northbound left-turn lane to 200 feet)

(Convert the northbound left-turn/through lane into a left-turn lane)

(Construct a southbound left-turn lane)

(Replace north-south split phasing with protected left-turn phasing)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$16,000.00	1	\$16,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.1	\$600.00
Remove Curb & Gutter	LIN FT	\$5.00	460	\$2,300.00
Remove Concrete Walk	SQ FT	\$1.00	5800	\$5,800.00
Mill Pavement	SQ YD	\$3.00	7510	\$22,530.00
Wearing Course Mix	TON	\$50.00	1030	\$51,500.00
Non-Wearing Course Mix	TON	\$45.00	70	\$3,150.00
Subgrade Excavation	CU YD	\$12.00	910	\$10,920.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	260	\$4,680.00
Select Granular Borrow (CV)	CU YD	\$10.00	460	\$4,600.00
Curb & Gutter	LIN FT	\$10.00	540	\$5,400.00
Concrete Walk	SQ FT	\$2.50	5430	\$13,575.00
Truncated Dome	SQ FT	\$60.00	64	\$3,840.00
Drainage	LUMP SUM	\$95,000.00	1	\$95,000.00
Signing & Striping	LUMP SUM	\$3,000.00	1	\$3,000.00
Signal Modification	LUMP SUM	\$100,000.00	1	\$100,000.00
Street Lighting Modification	LUMP SUM	\$20,000.00	1	\$20,000.00
Traffic Control	LUMP SUM	\$10,000.00	1	\$10,000.00
Turf Establishment	LUMP SUM	\$2,500.00	1	\$2,500.00
Traffic Signal Phasing	EACH	\$10,000.00	1	\$10,000.00
Subtotal				\$385,395.00
Contingency & Minor Items (assume 20%)	\$77,079.00			
Total Construction Cost	\$462,474.00			
Project Delivery (assume 30% construction cost)	\$138,742.20			
Right of Way Cost	SQ FT	\$40.00	2240	\$89,600.00
Total Improvement Cost				\$690,816.20

#### Improvement 20A

On 28th Ave, add SB lane from American Blvd to 82nd St

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$19,000.00	1	\$19,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.3	\$1,800.00
Remove Curb & Gutter	LIN FT	\$5.00	1640	\$8,200.00
Remove Concrete Walk	SQ FT	\$1.00	15850	\$15,850.00
Mill Pavement	SQ YD	\$3.00	5030	\$15,090.00
Common Excavation	CU YD	\$12.00	2060	\$24,720.00
Subgrade Excavation	CU YD	\$12.00	2500	\$30,000.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	700	\$12,600.00
Select Granular Borrow	CU YD	\$10.00	1250	\$12,500.00
Curb & Gutter	LIN FT	\$10.00	1690	\$16,900.00
Concrete Walk	SQ FT	\$2.50	14070	\$35,175.00
Wearing Course Mix	TON	\$50.00	1060	\$53,000.00
Non-Wearing Course Mix	TON	\$45.00	460	\$20,700.00
Truncated Dome	SQ FT	\$60.00	96	\$5,760.00
Drainage	LUMP SUM	\$120,000.00	1	\$120,000.00
Signing & Striping	LUMP SUM	\$5,000.00	1	\$5,000.00
Street Lighting Modification	LUMP SUM	\$45,000.00	1	\$45,000.00
Traffic Control	LUMP SUM	\$11,000.00	1	\$11,000.00
Turf Establishment	LUMP SUM	\$6,000.00	1	\$6,000.00
Subtotal				\$458,295.00
Contingency & Minor Items (assume 20%)	\$91,659.00			
Total Construction Cost	\$549,954.00			
Project Delivery (assume 30% construction cost)				\$164,986.20
Right of Way Cost	SQ FT	\$40.00	24030	\$961,200.00
Total Improvement Cost				\$1,676,140.20

#### 1. Southbound right in on 34th Avenue into the Northeast housing

(Construct a southbound right-in access to serve the Northeast Housing residents)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$7,000.00	1	\$7,000.00
Clearing & Grubbing	ACRE	\$6,000.00	0.3	\$1,800.00
Remove Curb & Gutter	LIN FT	\$5.00	290	\$1,450.00
Remove Concrete Walk	SQ FT	\$1.00	2840	\$2,840.00
Mill Pavement	SQ YD	\$3.00	2100	\$6,300.00
Concrete Walk	SQ FT	\$2.50	3570	\$8,925.00
Wearing Course Mix	TON	\$50.00	350	\$17,500.00
Non-wearing Course Mix	TON	\$45.00	80	\$3,600.00
Curb & Gutter	LIN FT	\$10.00	400	\$4,000.00
Subgrade Excavation	CU YD	\$12.00	410	\$4,920.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	120	\$2,160.00
Select Granular Base	CU YD	\$10.00	140	\$1,400.00
Truncated Dome	SQ FT	\$60.00	32	\$1,920.00
Drainage	LUMP SUM	\$40,000.00	1	\$40,000.00
Traffic Control	LUMP SUM	\$4,000.00	1	\$4,000.00
Signal Modification	LUMP SUM	\$50,000.00	1	\$50,000.00
Turf Establishment	LUMP SUM	\$1,500.00	1	\$1,500.00
Signing & Striping	LUMP SUM	\$2,000.00	1	\$2,000.00
Subtotal				\$161,315.00
Contingency & Minor Items (assume 20%)				\$32,263.00
Total Construction Cost				\$193,578.00
Project Delivery (assume 30% construction cost)				\$58,073.40
Right of Way Cost	SQ FT	\$40.00	3560	\$142,400.00
Total Improvement Cost				\$394,051.40

#### Improvement 22

1. New traffic signal and turn lane improvements at Old Shakopee Road/ 33rd Avenue (Installation of a traffic signal)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$13,000.00	1	\$13,000.00
Traffic Signal	EACH	\$220,000.00	1	\$220,000.00
Subtotal				\$220,000.00
Contingency & Minor Items (assume 5%)				\$11,000.00
Total Construction Cost				\$231,000.00
Project Delivery (assume 30% construction cost)				\$69,300.00
Total Improvement Cost				\$300,300.00

1. New traffic signal and turn lane improvements at Old Shakopee Road/ 30th Avenue

(Installation of a traffic signal)

(Construct an eastbound left-turn lane (350 feet))

(The southbound approach will include dual left-turn lanes and dual right-turn lanes (300 ft). This approach was modeled with what is shown on the proposed site plan, an inside left-turn lane of approximately 100 feet and a second

full-length left-turn lane.)

(The southbound approach will include dual left-turn lanes and dual right-turn lanes (300 ft). However, full-length dual left-turn lanes should be provided with a short right-turn lane.)

(Construct an additional eastbound left-turn lane (350 feet))

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$50,000.00	1	\$50,000.00
Clearing & Grubbing	ACRE	\$6,000.00	1.7	\$10,200.00
Remove Curb & Gutter	LIN FT	\$5.00	1870	\$9,350.00
Remove Pavement	SQ YD	\$2.00	490	\$980.00
Mill Pavement	SQ YD	\$3.00	3740	\$11,220.00
Curb & Gutter	LIN FT	\$10.00	4450	\$44,500.00
Concrete Walk	SQ FT	\$2.50	10200	\$25,500.00
Wearing Course Mix	TON	\$50.00	2050	\$102,500.00
Non-Wearing Course Mix	TON	\$45.00	1570	\$70,650.00
Subgrade Excavation	CU YD	\$12.00	6380	\$76,560.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	1780	\$32,040.00
Select Granular Borrow (CV)	CU YD	\$10.00	3190	\$31,900.00
Retaining Wall	SQ FT	\$40.00	2850	\$114,000.00
Truncated Dome	SQ FT	\$60.00	32	\$1,920.00
Drainage	LUMP SUM	\$300,000.00	1	\$300,000.00
Signing & Striping	LUMP SUM	\$10,000.00	1	\$10,000.00
Traffic Control	LUMP SUM	\$30,000.00	1	\$30,000.00
Street Lighting Modification	LUMP SUM	\$50,000.00	1	\$50,000.00
Turf Establishment	LUMP SUM	\$9,000.00	1	\$9,000.00
Traffic Signal	EACH	\$220,000.00	1	\$220,000.00
Subtotal				\$1,200,320.00
Contingency & Minor Items (assume 20%)	\$240,064.00			
Total Construction Cost	\$1,440,384.00			
Project Delivery (assume 30% construction cost)	\$432,115.20			
Right of Way Cost	SQ FT	\$40.00	14025	\$561,000.00
Total Improvement Cost				\$2,433,499.20

#### **Improvement 25**

1. New traffic signal and turn lane improvements at Old Shakopee Road/ 28th Avenue

(Installation of a traffic signal)

(The new northbound approach will include dual left-turn lanes, two through lanes and a right-turn lane)

(Construct an eastbound left-turn lane (300 feet) and a right-turn lane (300 feet))

(Construct dual westbound left-turn lanes (300 feet))

(Restripe the southbound left-turn lane to a through lane)

(Construct a southbound left-turn lane (250 feet))

(Construct an additional eastbound left-turn lane (300 feet))

(Construct a westbound right-turn lane (300 feet))

(Construct an additional southbound right-turn lane (400 feet))

(Construct an additional southbound left-turn lane (250 feet))

(Construct an additional northbound right-turn lane (300 feet))

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$90,000.00	1	\$90,000.00
Clearing & Grubbing	ACRE	\$6,000.00	3	\$18,000.00
Remove Curb & Gutter	LIN FT	\$5.00	4700	\$23,500.00
Remove Pavement	SQ YD	\$2.00	1880	\$3,760.00
Mill Pavement	SQ YD	\$3.00	9870	\$29,610.00
Concrete Walk	SQ FT	\$2.50	23170	\$57,925.00
Wearing Course Mix	TON	\$50.00	4520	\$226,000.00
Non-Wearing Course Mix	TON	\$45.00	3260	\$146,700.00
Curb & Gutter	LIN FT	\$10.00	9660	\$96,600.00
Subgrade Excavation	CU YD	\$12.00	13620	\$163,440.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	3790	\$68,220.00
Select Granular Borrow (CV)	CU YD	\$10.00	6810	\$68,100.00
Truncated Dome	SQ FT	\$60.00	192	\$11,520.00
Drainage	LUMP SUM	\$540,000.00	1	\$540,000.00
Retaining Wall	SQ FT	\$40.00	2700	\$108,000.00
Erosion Control & Turf Establishment	LUMP SUM	\$50,000.00	1	\$50,000.00
Signing & Striping	LUMP SUM	\$26,000.00	1	\$26,000.00
Street Lighting Modification	LUMP SUM	\$115,000.00	1	\$115,000.00
Traffic Control	LUMP SUM	\$54,000.00	1	\$54,000.00
Turf Establishment	LUMP SUM	\$22,000.00	1	\$22,000.00
Traffic Signal	EACH	\$255,000.00	1	\$255,000.00
Subtotal				\$2,173,375.00
Contingency & Minor Items (assume 20%)				\$434,675.00
Total Construction Cost				\$2,608,050.00
Project Delivery (assume 30% of construction cost)				\$782,415.00
Right of Way Cost	SQ FT	\$40.00	109455	\$4,378,200.00
Total Improvement Cost				\$7,768,665.00

1. Reconstruction of I-494/34th Avenue interchange (with LRT)

2. Reconstruction of I-494/34th Avenue interchange (without LRT)

(Reconstruct the interchange to include loops in the northwest and southwest quadrants

(see Figure 11: Proposed Roadway Concept, I-494/34th Avenue)

These improvements will eliminate two major traffic conflicts with LRT operations, the westbound to southbound movement,

and the southbound to eastbound movement. Improvements at the 34th Avenue/I-494 Ramps are a result of increased traffic

volumes due to background growth and adjacent developments.)

Item		Unit		Total	
Description	Unit	Cost	Quantities	Amount	
Mobilization	LUMP SUM	\$1,200,000.00	1	\$1,200,000.00	
Clearing & Grubbing	ACRE	\$6,000.00	4	\$24,000.00	
Remove Curb & Gutter	LIN FT	\$5.00	22290	\$111,450.00	
Remove Pavement	SQ YD	\$2.00	36750	\$73,500.00	
Mill Pavement	SQ YD	\$3.00	29390	\$88,170.00	
Concrete Walk	SQ FT	\$2.50	115310	\$288,275.00	
8" Concrete Pavement (Ramps)	SQ YD	\$4.00	53930	\$215,720.00	
Structural Concrete	CU YD	\$63.00	11990	\$755,370.00	
Wearing Course Mix (34th Ave and Shoulders)	TON	\$50.00	4350	\$217,500.00	
Non-Wearing Course Mix (34th Ave & Shoulders)	TON	\$45.00	1700	\$76,500.00	
Curb & Gutter	LIN FT	\$10.00	53620	\$536,200.00	
Common Embankment	CU YD	\$1.50	130270	\$195,405.00	
Subgrade Excavation	CU YD	\$12.00	72660	\$871,920.00	
Aggregate Base (CV) Class 5	CU YD	\$18.00	20200	\$363,600.00	
Select Granular Borrow	CU YD	\$10.00	36330	\$363,300.00	
Truncated Dome	SQ FT	\$60.00	160	\$9,600.00	
Steel Bridges (5)	SQ FT	\$150.00	33000	\$4,950,000.00	
Pre-Cast Concrete Bridges (5)	SQ FT	\$120.00	41000	\$4,920,000.00	
Overhead Sign Structure	LUMP SUM	\$120,000.00	1	\$120,000.00	
MSE Retaining Wall	SQ FT	\$45.00	66060	\$2,972,700.00	
Drainage	LUMP SUM	\$7,000,000.00	1	\$7,000,000.00	
Erosion Control	LUMP SUM	\$100,000.00	1	\$100,000.00	
Lighting	LUMP SUM	\$50,000.00	1	\$50,000.00	
Signal Modification	LUMP SUM	\$480,000.00	1	\$480,000.00	
Lighting	LUMP SUM	\$245,000.00	1	\$245,000.00	
Traffic Control	LUMP SUM	\$700,000.00	1	\$700,000.00	
Turf Establishment	LUMP SUM	\$250,000.00	1	\$250,000.00	
Signing & Striping	LUMP SUM	\$300,000.00	1	\$300,000.00	
Subtotal				\$27,478,210.00	
Contingency & Minor Items (assume 25%)	\$6,869,552.50				
Total Construction Cost \$34,347,762.50					
Project Delivery (assume 30% construction cost)				\$10,304,328.75	
Right of Way Cost <sup>1</sup>	LUMP SUM	\$15,000,000.00	1	\$15,000,000.00	
Total Improvement Cost				\$59,652,091.25	

1. The cost of Right of Way is supplied by the City of Bloomington.

1. 24th Avenue/82nd Street

(On the north approach, convert the right/through lane into a trap dual right-turn lane. This improvement will create better lane utilization upstream at the single-point interchange)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$3,400.00	1	\$3,400.00
Remove Curb & Gutter	LIN FT	\$5.00	80	\$400.00
Concrete Walk	SQ FT	\$2.50	1480	\$3,700.00
Curb & Gutter	LIN FT	\$10.00	160	\$1,600.00
Truncated Dome	SQ FT	\$60.00	32	\$1,920.00
Signal Modification	LUMP SUM	\$50,000.00	1	\$50,000.00
Traffic Control	LUMP SUM	\$2,200.00	1	\$2,200.00
Signing & Striping	LUMP SUM	\$1,000.00	1	\$1,000.00
Subtotal				\$64,220.00
Contingency & Minor Items (assume 15%)	\$9,633.00			
Total Construction Cost	\$73,853.00			
Project Delivery (assume 30% construction cost)	\$22,155.90			
Total Improvement Cost				\$96,008.90

#### Improvement 28A

1. 86th Street Extension to EOSR to 28th Ave

(Construct two lanes in each direction with a median and left and right-turn lanes)

Item		Unit		Total
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$580,000.00	1	\$580,000.00
Clearing and Grubbing	ACRE	\$6,000.00	4	\$24,000.00
Remove Curb & Gutter	LIN FT	\$5.00	1160	\$5,800.00
Remove Pavement	SQ YD	\$2.00	4590	\$9,180.00
Subgrade Excavation	CU YD	\$12.00	13540	\$162,480.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	3770	\$67,860.00
Select Granular Borrow	CU YD	\$10.00	6770	\$67,700.00
Curb & Gutter	LIN FT	\$10.00	6650	\$66,500.00
Wearing Course Mix	TON	\$50.00	3250	\$162,500.00
Non-Wearing Course Mix	TON	\$45.00	3250	\$146,250.00
Drainage <sup>1</sup>	LUMP SUM	\$3,500,000.00	1	\$3,500,000.00
Bridge	SQ FT	\$150.00	55200	\$8,280,000.00
Retaining Wall	SQ FT	\$40.00	7500	\$300,000.00
Erosion Control	LUMP SUM	\$100,000.00	1	\$100,000.00
Traffic Control	LUMP SUM	\$350,000.00	1	\$350,000.00
Lighting	LUMP SUM	\$120,000.00	1	\$120,000.00
Turf Establishment	LUMP SUM	\$65,000.00	1	\$65,000.00
Signing & Striping	LUMP SUM	\$80,000.00	1	\$80,000.00
Subtotal				\$14,087,270.00
Contingency & Minor Items (assume 20%)				\$2,817,454.00
Total Construction Cost				\$16,904,724.00
Project Delivery (assume 30% construction cost)				\$5,071,417.20
Right of Way Cost	SQ FT	\$40.00	157125	\$6,285,000.00
Total Improvement Cost				\$28,261,141.20

1. Assumed drainage structures to be installed every 300' along each side of roadway including median.

#### Improvement 28B

#### 1.86th Street and Old Shakopee Road

(Modify the westbound approach to provide dual left-turns, two through lanes, and a right-turn lane)

Item		Unit		Total	
Description	Unit	Cost	Quantities	Amount	
Mobilization	LUMP SUM	\$32,000.00	1	\$32,000.00	
Curb & Gutter	LIN FT	\$10.00	1000	\$10,000.00	
Subgrade Excavation	CU YD	\$12.00	5800	\$69,600.00	
Aggregate Base (CV) Class 5	CU YD	\$18.00	1620	\$29,160.00	
Select Granular Borrow	CU YD	\$10.00	2900	\$29,000.00	
Wearing Course Mix	TON	\$50.00	1400	\$70,000.00	
Non-Wearing Course Mix	TON	\$45.00	1400	\$63,000.00	
Truncated Dome	SQ FT	\$60.00	64	\$3,840.00	
Lighting	LUMP SUM	\$30,000.00	1	\$30,000.00	
Drainage <sup>1</sup>	LUMP SUM	\$190,000.00	1	\$190,000.00	
Traffic Control	LUMP SUM	\$19,000.00	1	\$19,000.00	
Traffic Signal	EACH	\$210,000.00	1	\$210,000.00	
Turf Establishment	LUMP SUM	\$5,000.00	1	\$5,000.00	
Signing & Striping	LUMP SUM	\$6,000.00	1	\$6,000.00	
Subtotal				\$766,600.00	
Contingency & Minor Items (assume 20%)	\$153,320.00				
Total Construction Cost	\$919,920.00				
Project Delivery (assume 30% construction cost)	\$275,976.00				
Right of Way Cost	SQ FT	\$40.00	10325	\$413,000.00	
Total Improvement Cost	Total Improvement Cost				

1. Assumed drainage structures to be installed every 300' along each side of roadway including median.

#### Improvement 29

1. 30th Ave (Reconstruct roadway to provide two through lanes in each direction and a median with left-turn lanes)

Item		Unit	Total	
Description	Unit	Cost	Quantities	Amount
Mobilization	LUMP SUM	\$45,000.00	1	\$45,000.00
Remove Curb & Gutter	LIN FT	\$5.00	3310	\$16,550.00
Remove Pavement	SQ YD	\$2.00	9560	\$19,120.00
Subgrade Excavation	CU YD	\$12.00	11400	\$136,800.00
Aggregate Base (CV) Class 5	CU YD	\$18.00	3170	\$57,060.00
Select Granular Borrow	CU YD	\$10.00	5700	\$57,000.00
Curb & Gutter	LIN FT	\$10.00	4960	\$49,600.00
Wearing Course Mix	TON	\$50.00	2740	\$137,000.00
Non-Wearing Course Mix	TON	\$45.00	2740	\$123,300.00
Lighting	LUMP SUM	\$100,000.00	1	\$100,000.00
Truncated Dome	SQ FT	\$60.00	192	\$11,520.00
Drainage <sup>1</sup>	LUMP SUM	\$270,000.00	1	\$270,000.00
Traffic Control	LUMP SUM	\$27,000.00	1	\$27,000.00
Light Rail Signaling	LUMP SUM	\$50,000.00	1	\$50,000.00
Turf Establishment	LUMP SUM	\$10,000.00	1	\$10,000.00
Signing & Striping	LUMP SUM	\$12,000.00	1	\$12,000.00
Subtotal				\$1,121,950.00
Contingency & Minor Items (assume 15%)				\$168,292.50
Total Construction Cost				\$1,290,242.50
Project Delivery (assume 30% construction cost)				\$387,072.75
Total Improvement Cost				\$1,677,315.25

1. Do not have graphics for improvement. Assumed drainage structures to be installed every 300' along

each side of roadway including median.





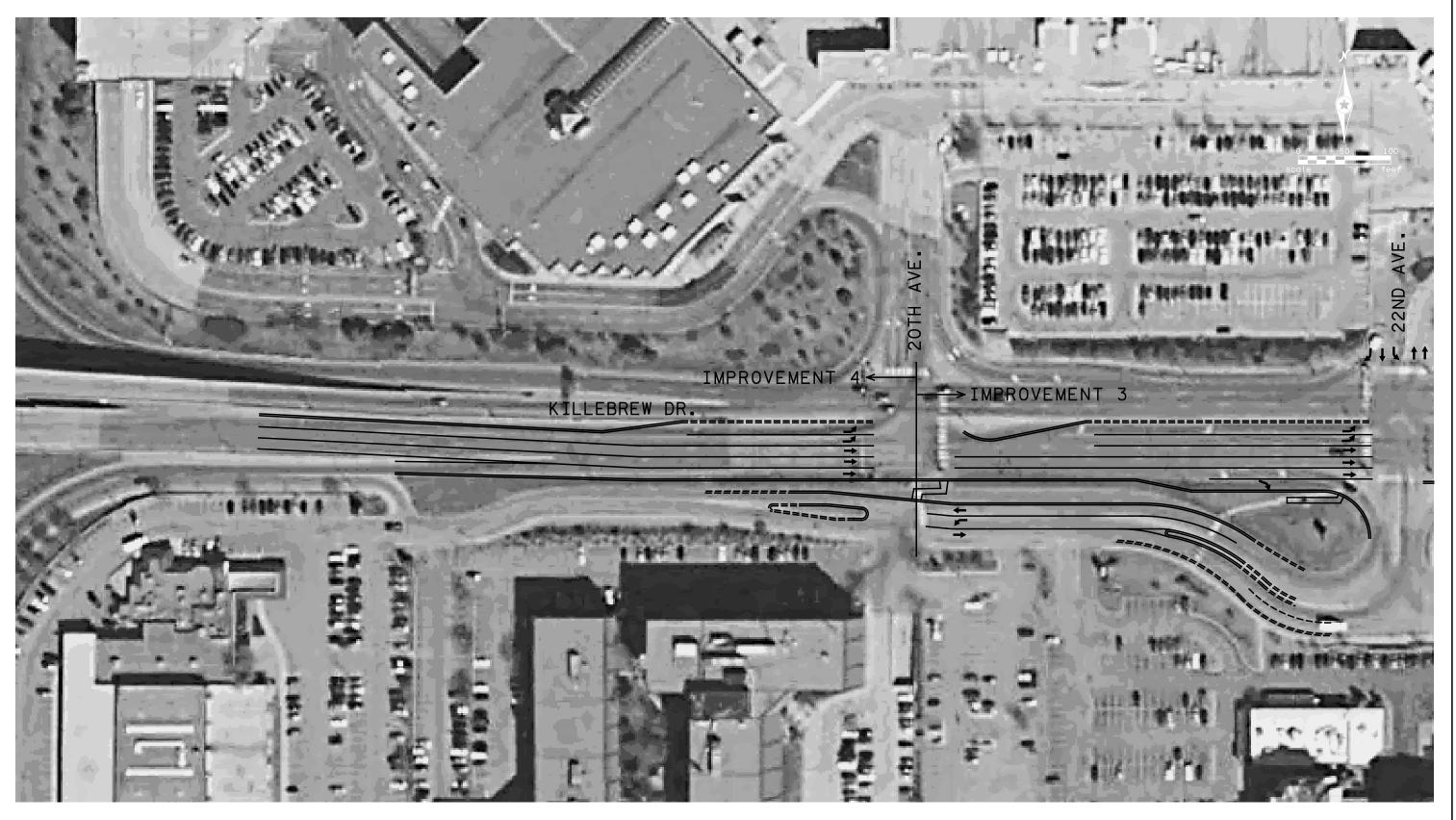
## Improvement 2 Airport South Roadway Infrastructure Improvements City of Bloomington

5622 5/11/2012





## Improvement 3 Airport South Roadway Infrastructure Improvements City of Bloomington



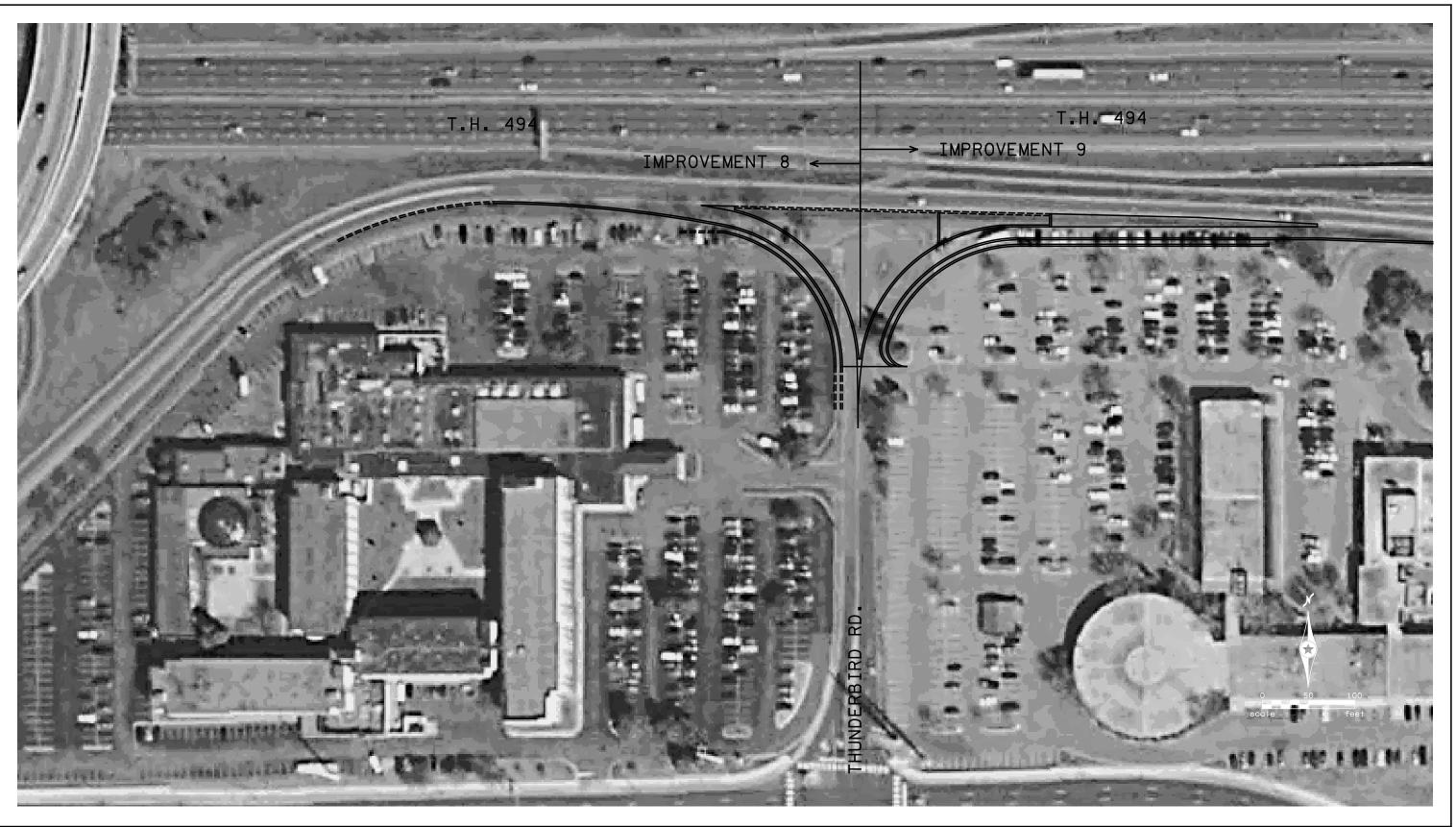


## Improvement 4

Airport South Roadway Infrastructure Improvements City of Bloomington



*Improvements 1, 6, and 7* Airport South Roadway Infrastructure Improvements City of Bloomington





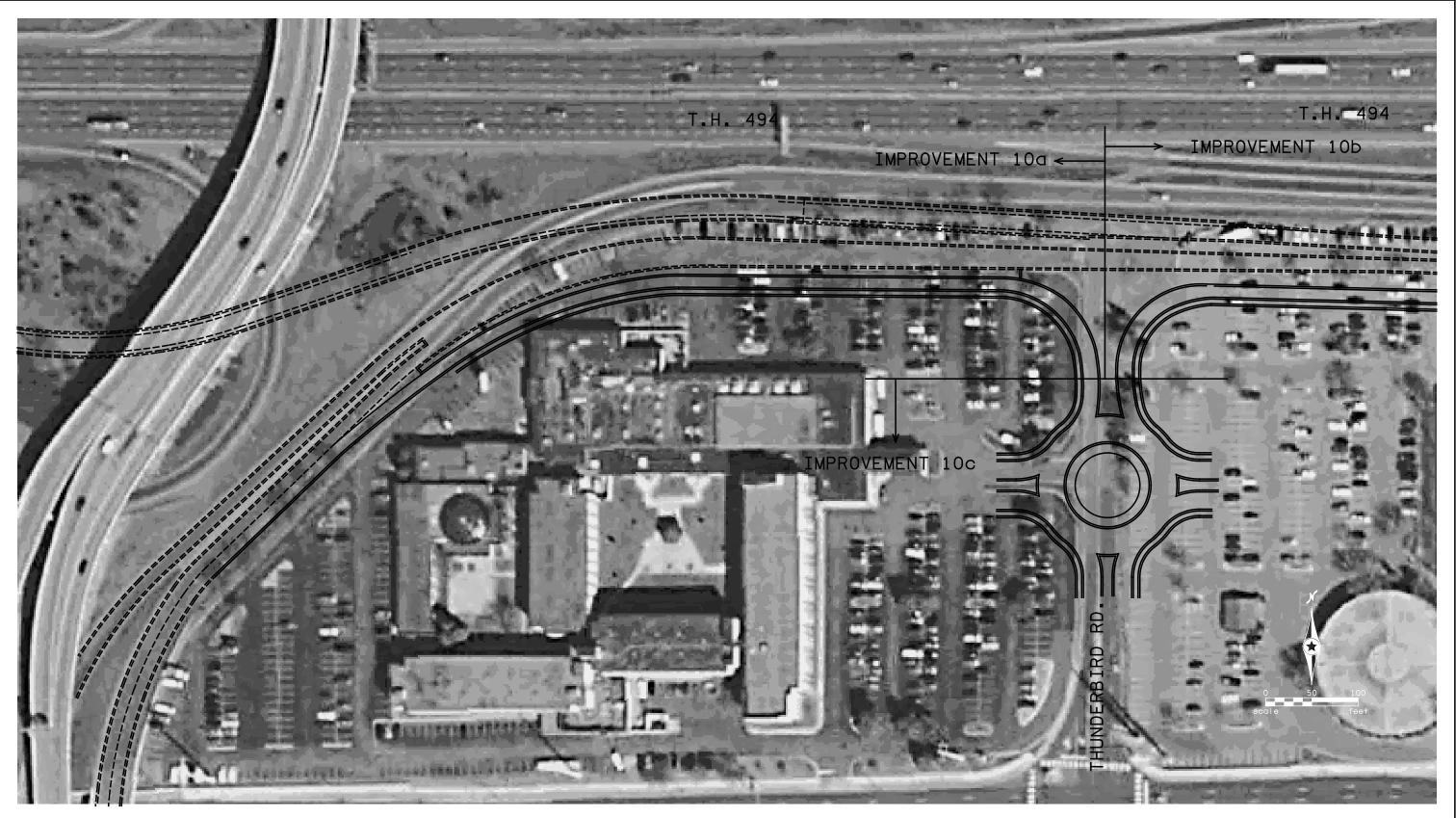
# Improvement 8

Airport South Roadway Infrastructure Improvements City of Bloomington





Improvement 9 Airport South Roadway Infrastructure Improvements City of Bloomington



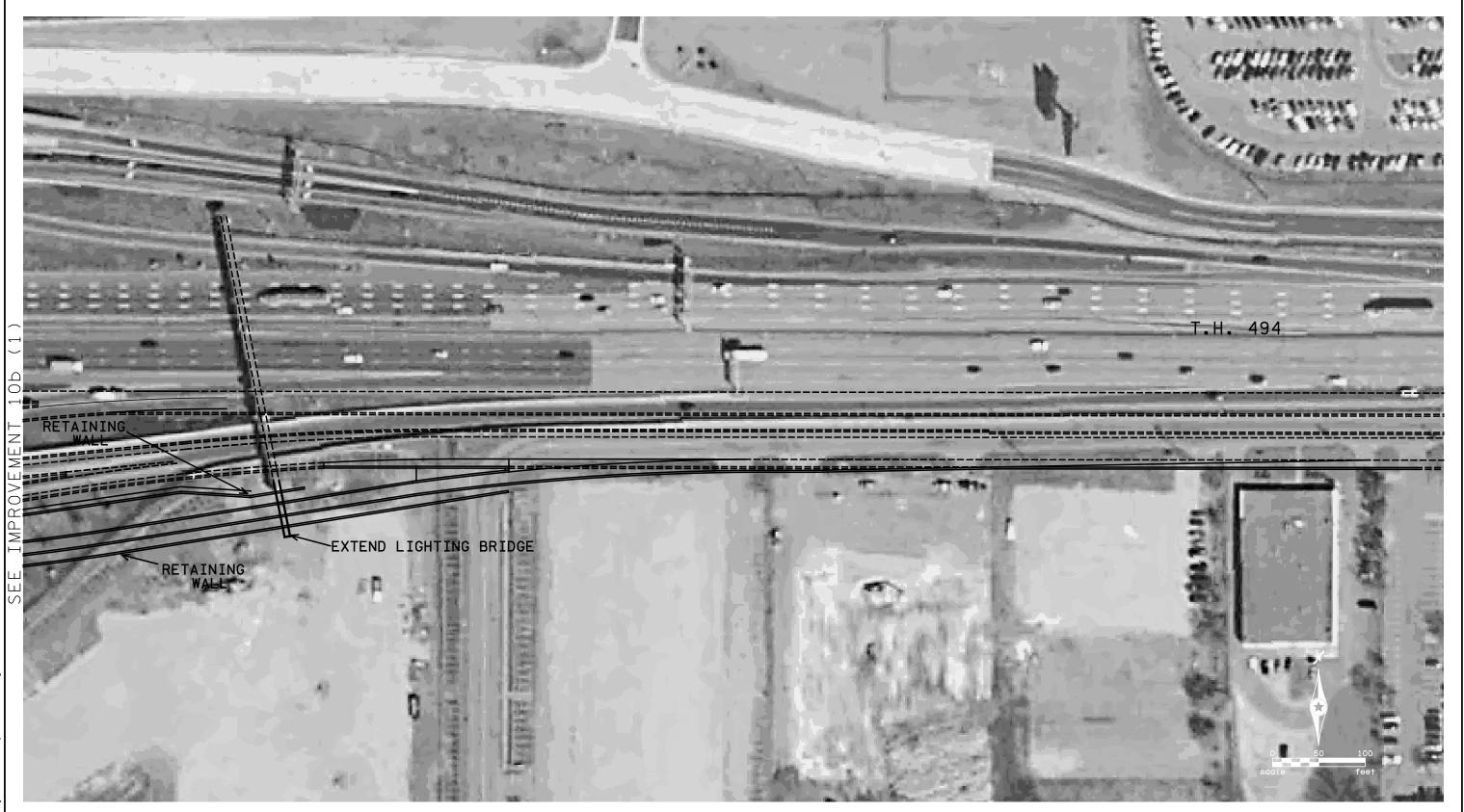


Improvement 10a Airport South Roadway Infrastructure Improvements City of Bloomington





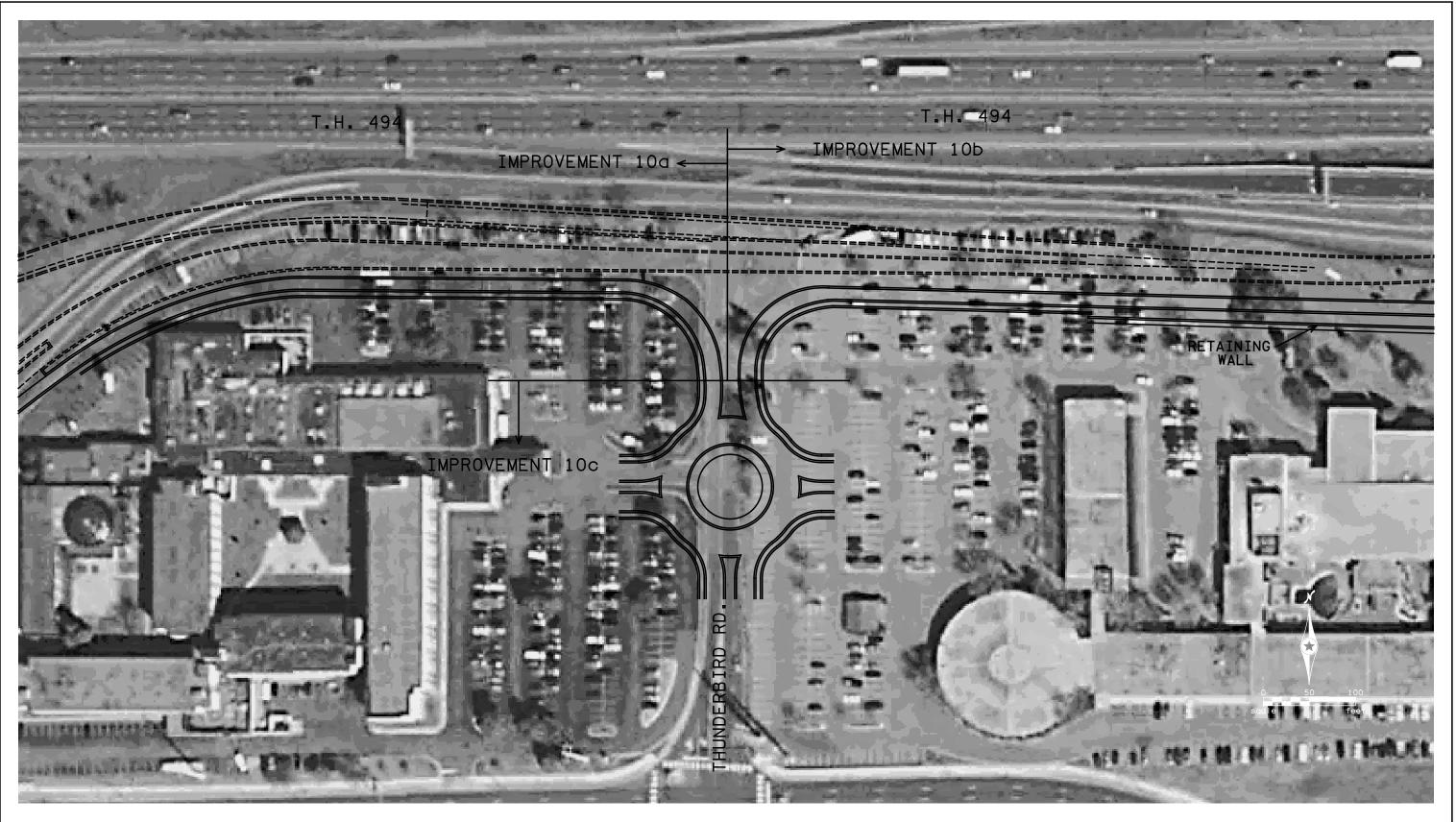
*Improvement 10b (1)* Airport South Roadway Infrastructure Improvements City of Bloomington





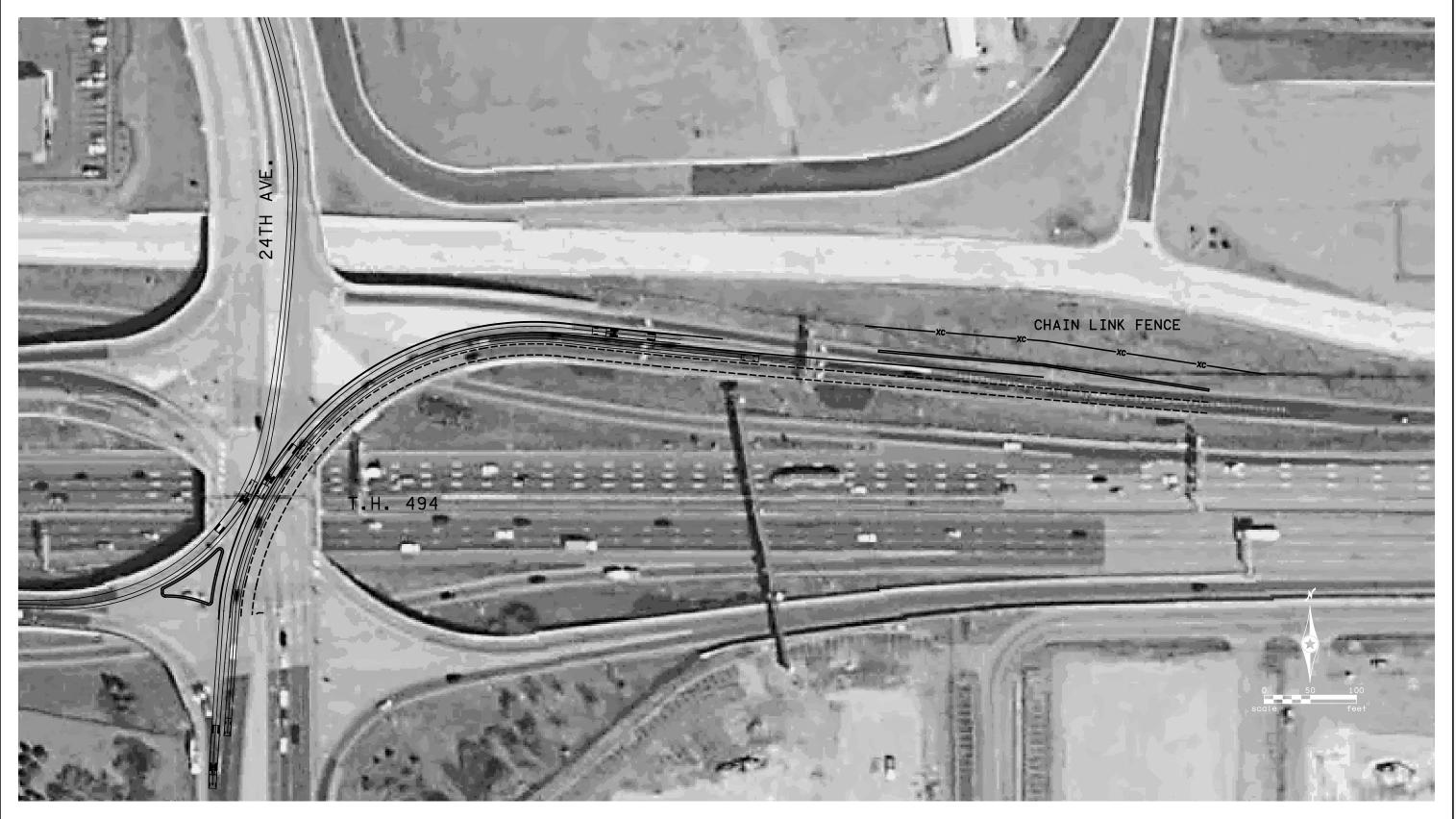
*Improvement 10b (2)* Airport South Roadway Infrastructure Improvements City of Bloomington

**58222X** 5/11/2012





Improvement 10c Airport South Roadway Infrastructure Improvements City of Bloomington





*Improvement 11* Airport South Roadway Infrastructure Improvements City of Bloomington



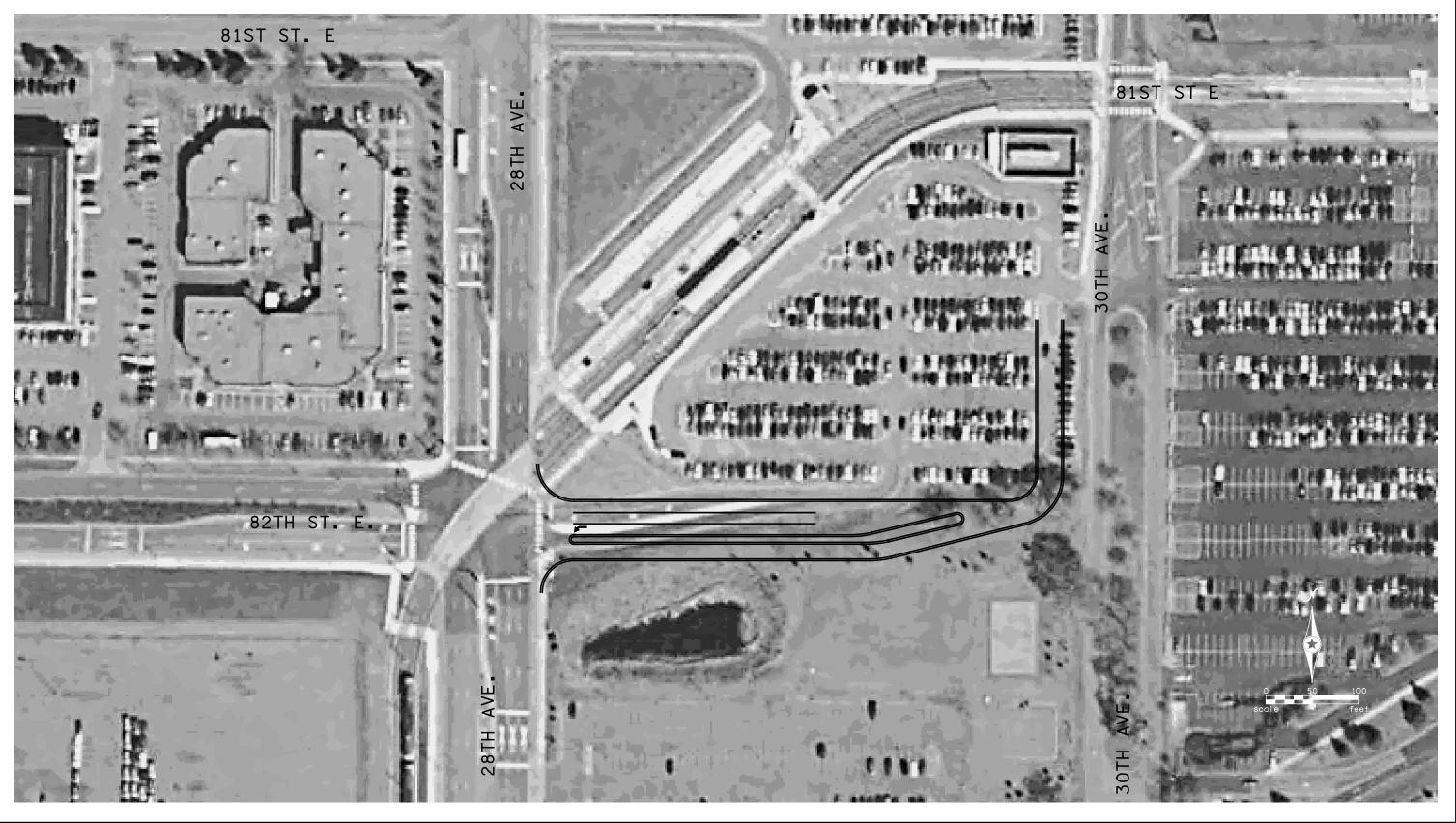


Improvement 12 A Airport South Roadway Infrastructure Improvements City of Bloomington





Improvement 12 B Airport South Roadway Infrastructure Improvements City of Bloomington



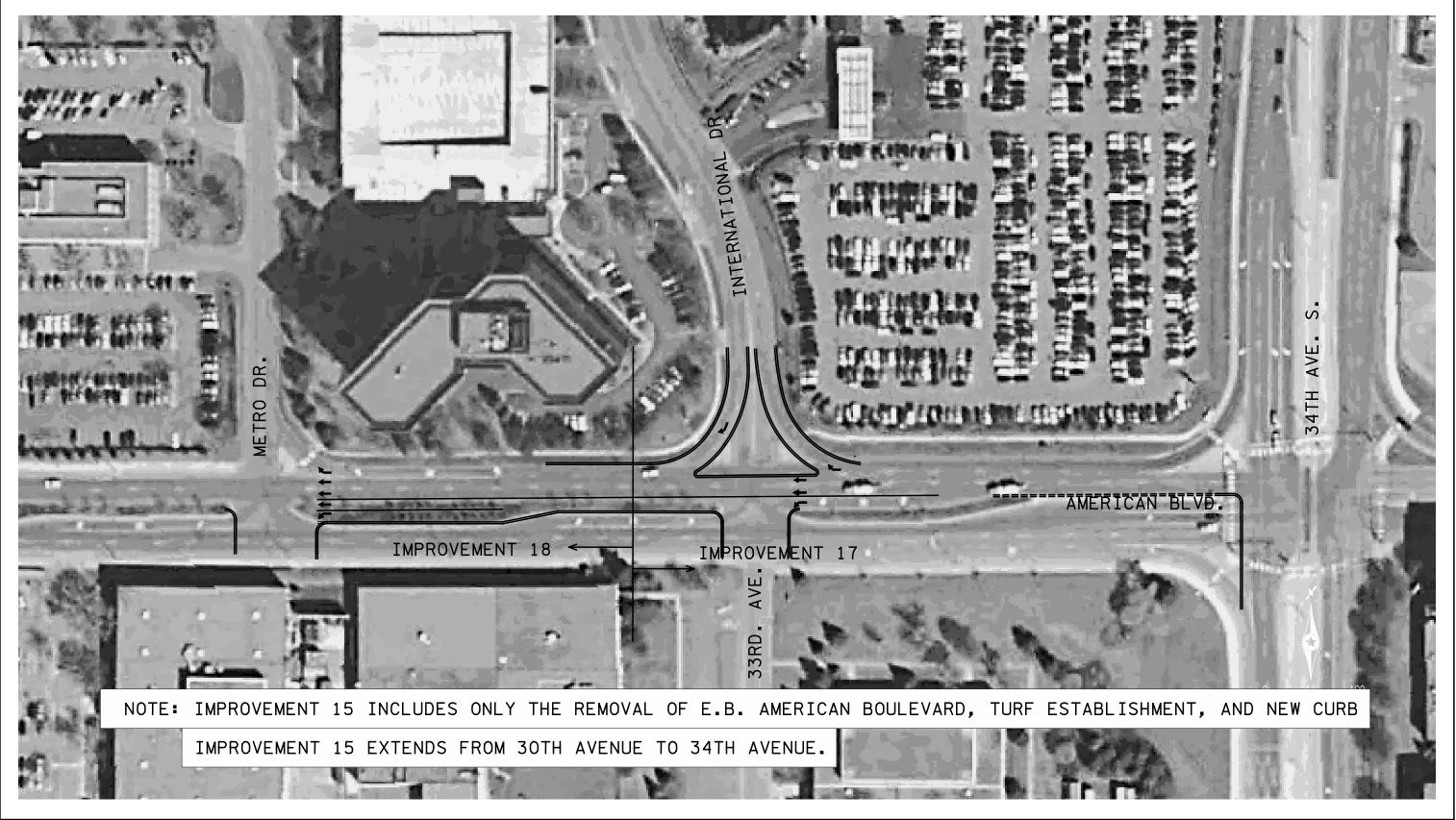


Improvement 13 Airport South Roadway Infrastructure Improvements City of Bloomington





## Improvement 16 Airport South Roadway Infrastructure Improvements City of Bloomington



Improvements 15, 17, and 18CONSULTING GROUP, INC.CONSULTING GROUP, INC.

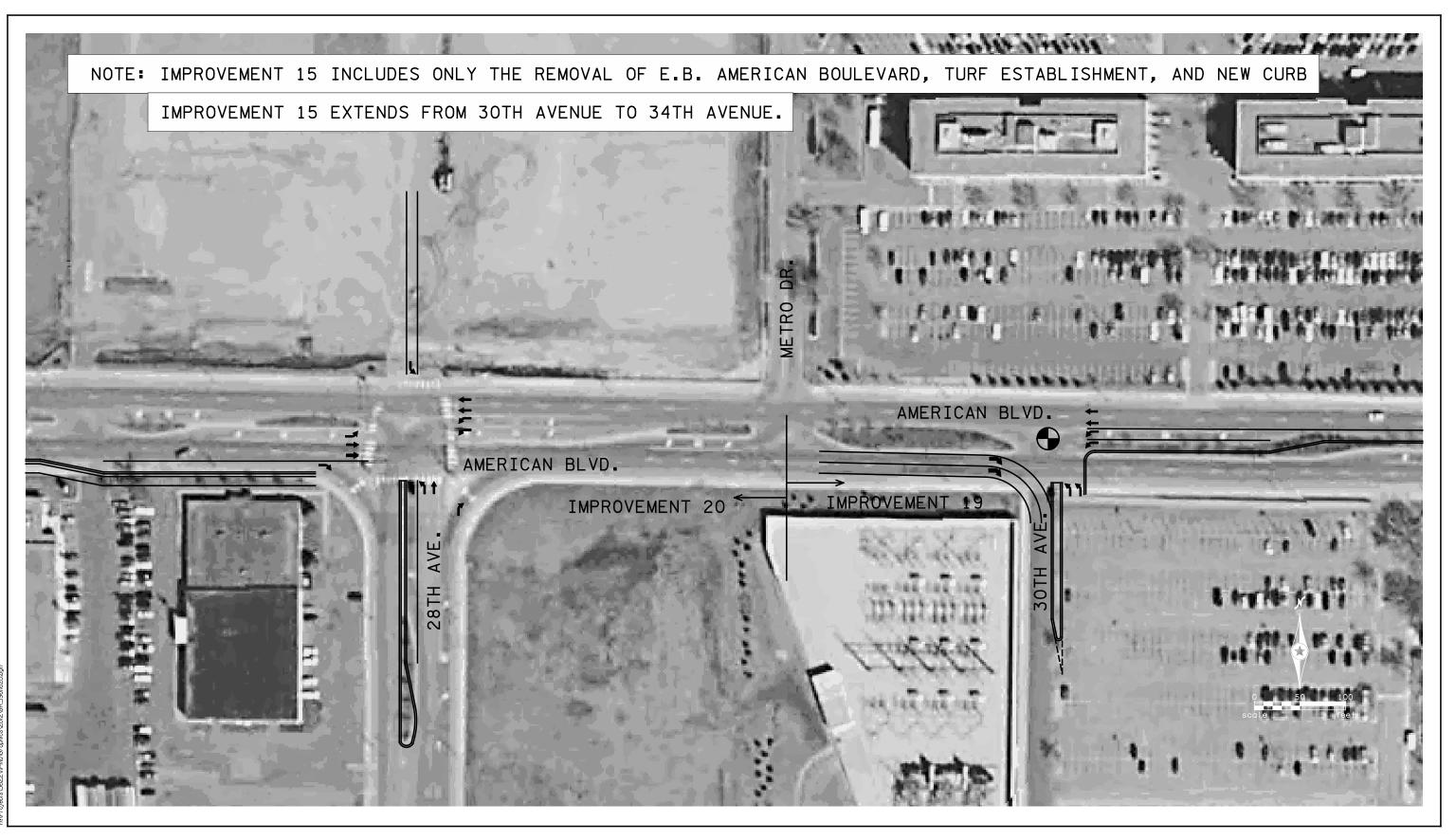
Jects\5622\hi-mu\Graphics\2009\GRITandl8.dgi

METRO DR METRO AMERICAN BLVD. 0 **IMPROVEMENT 18 IMPROVEMENT 19** 0 NOTE: IMPROVEMENT 15 INCLUDES ONLY THE REMOVAL OF E.B. AMERICAN BOULEVARD, TURF ESTABLISHMENT, AND NEW CURB IMPROVEMENT 15 EXTENDS FROM 30TH AVENUE TO 34TH AVENUE.



Improvements 15,18 and 19 Airport South Roadway Infrastructure Improvements City of Bloomington

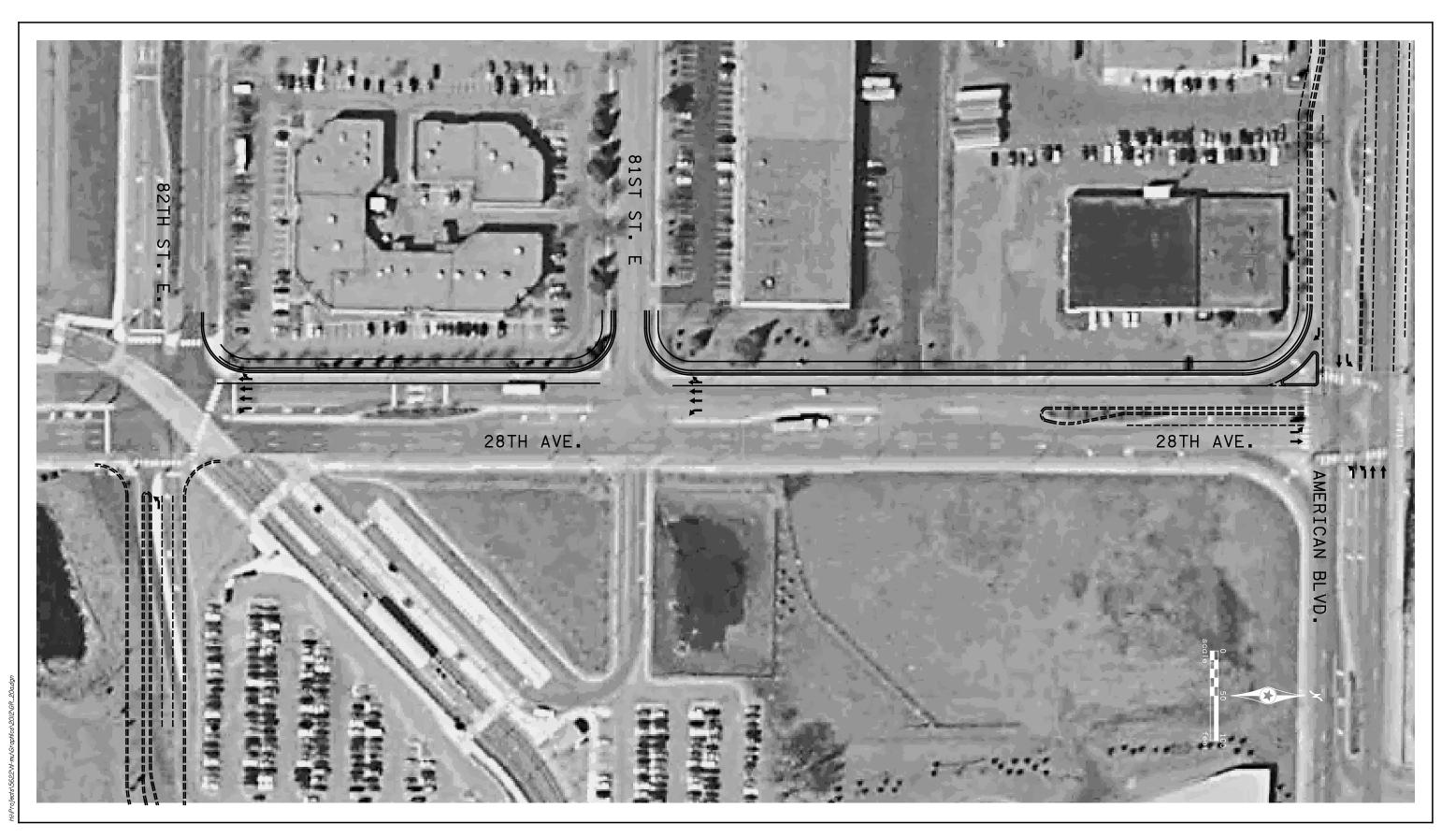






Improvements 15,19 and 20 Airport South Roadway Infrastructure Improvements City of Bloomington

XXXX 5/11/2012

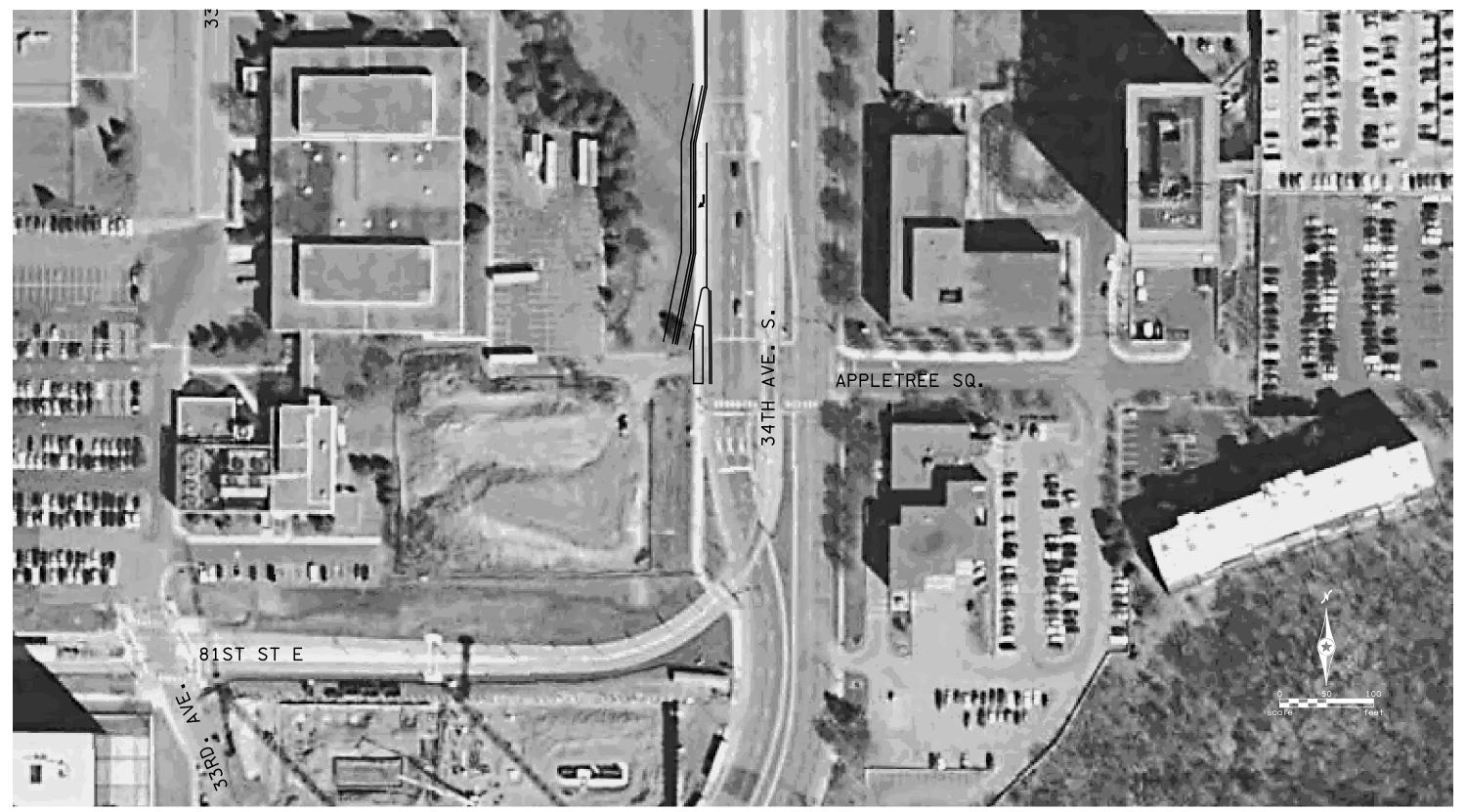




Improvement 20a

Airport South Roadway Infrastructure Improvements City of Bloomington

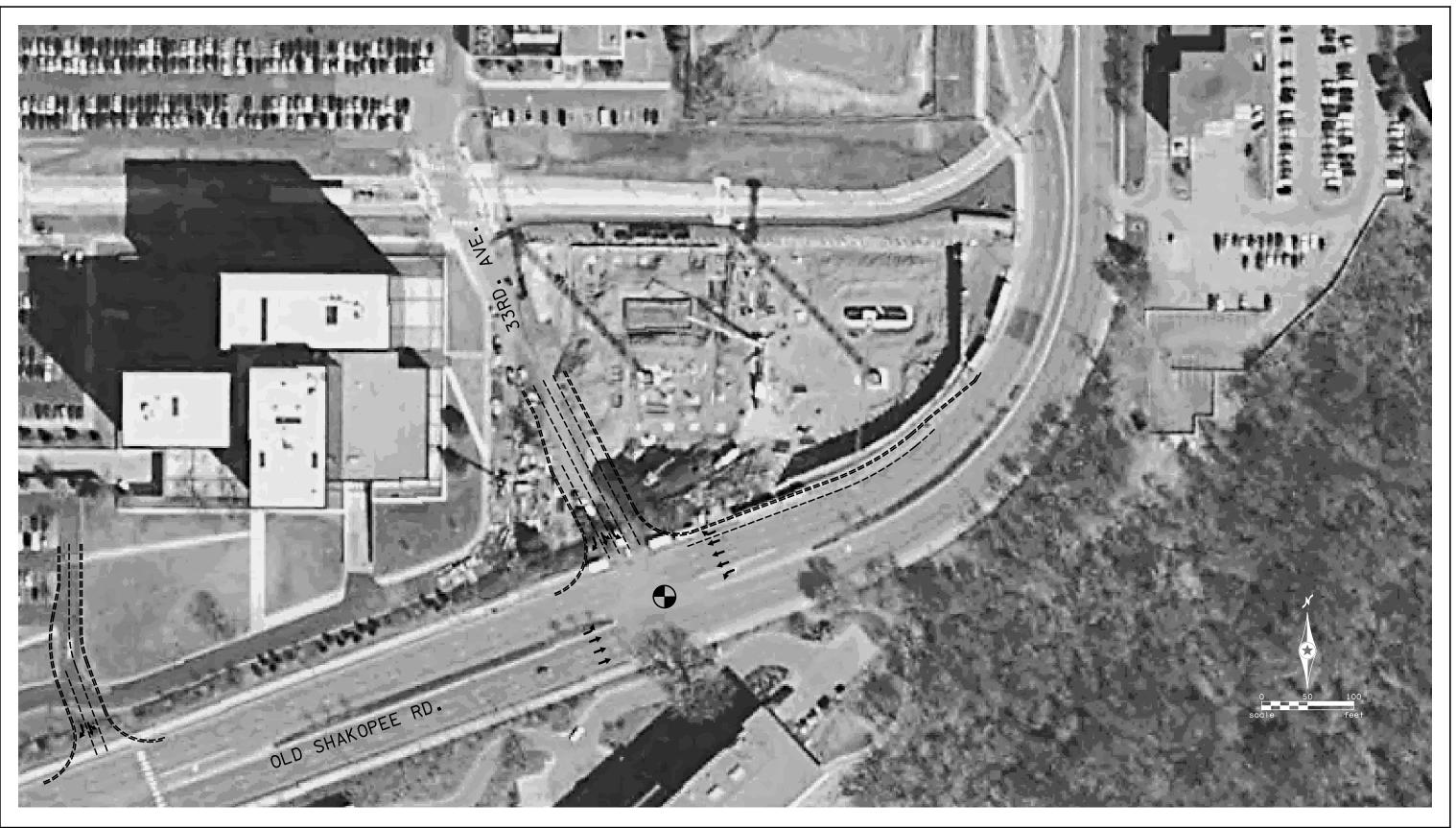
XXXX 5/11/2012



### Improvement 21 Airport South Roadway Infrastructure Improvements City of Bloomington

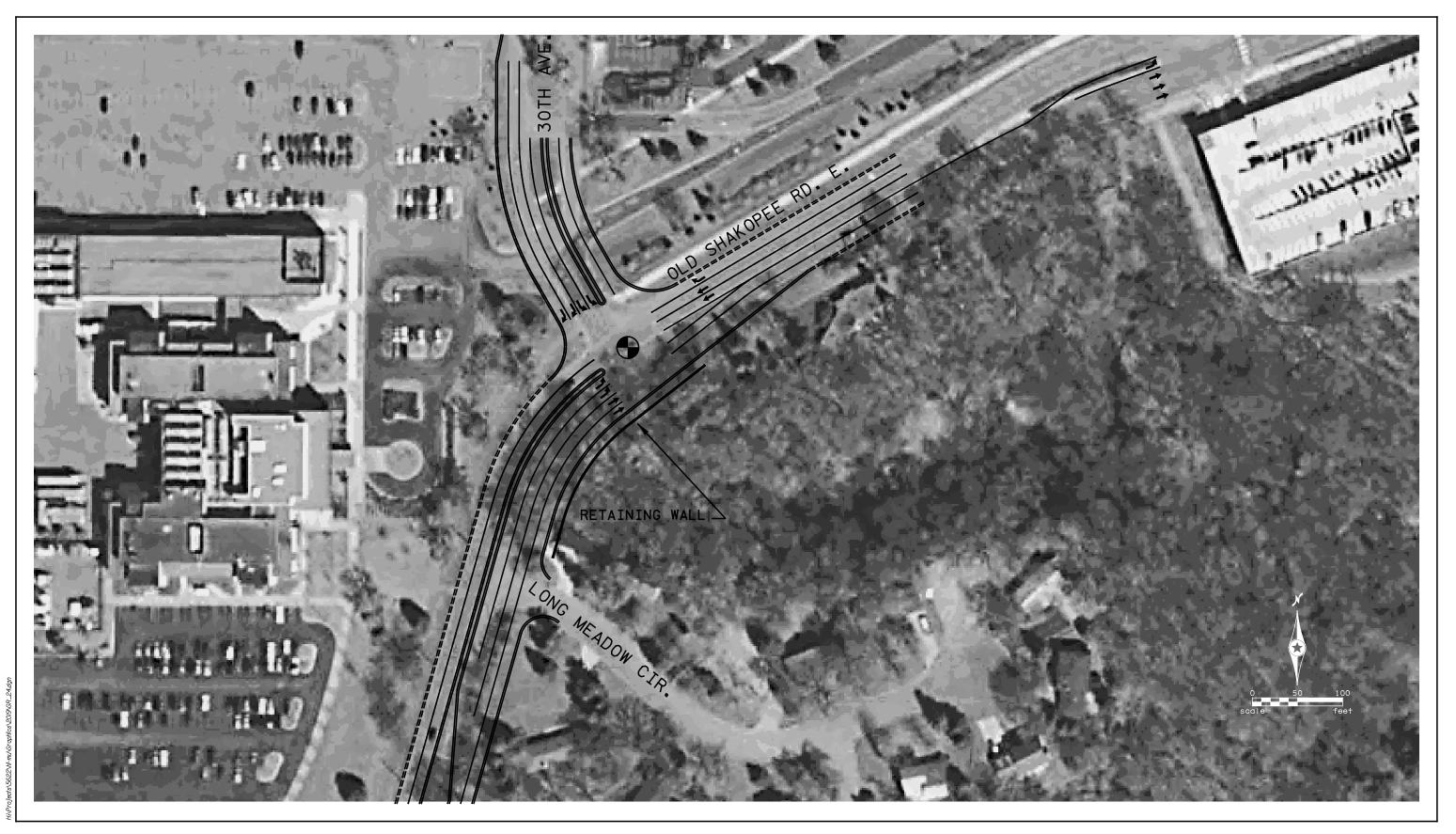
5622 5/11/2012

CONSULTING GROUP, INC.

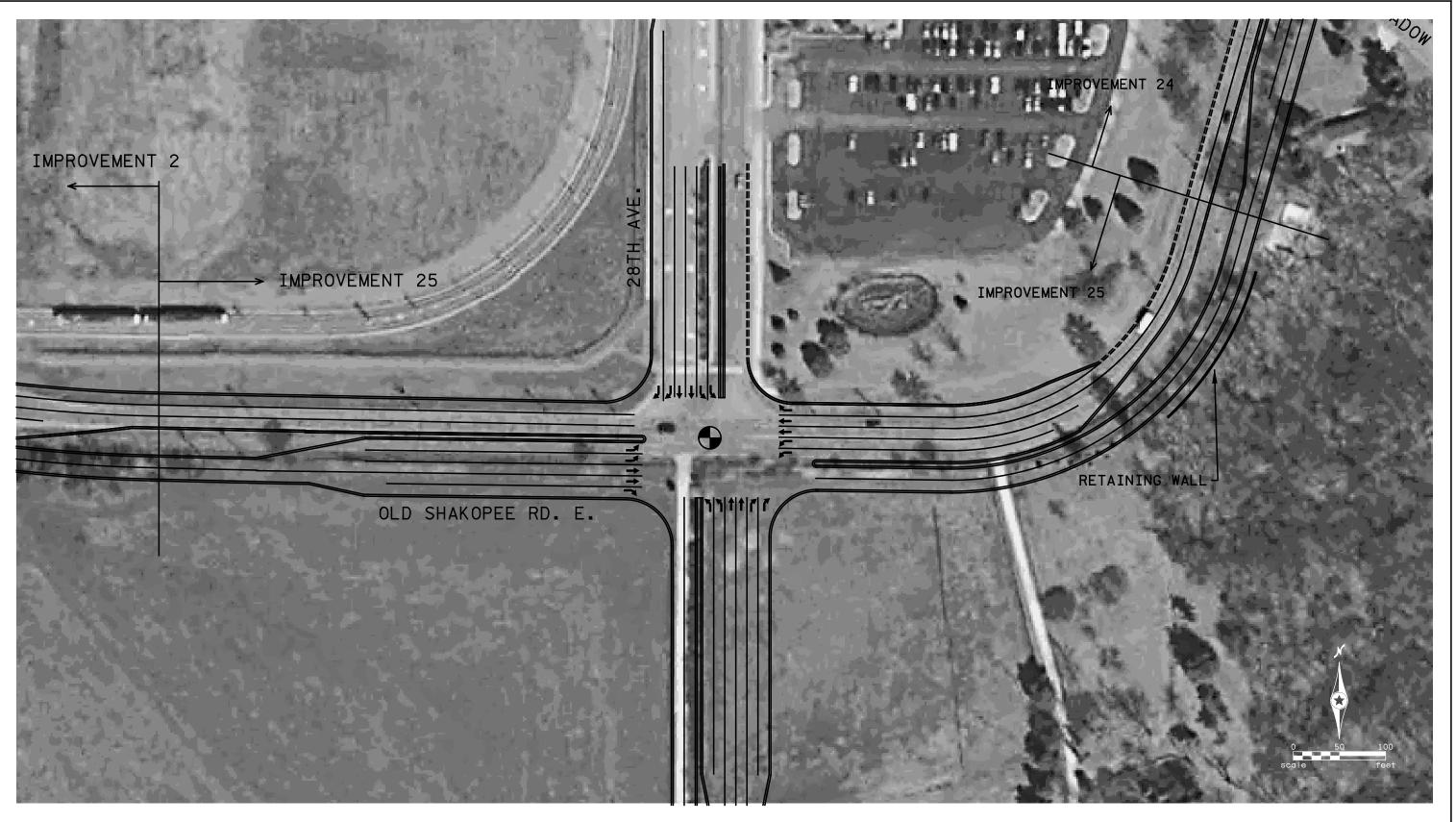




## Improvement 22 Airport South Roadway Infrastructure Improvements City of Bloomington



Improvement 24 Airport South Roadway Infrastructure Improvements City of Bloomington





Improvement 25 Airport South Roadway Infrastructure Improvements City of Bloomington



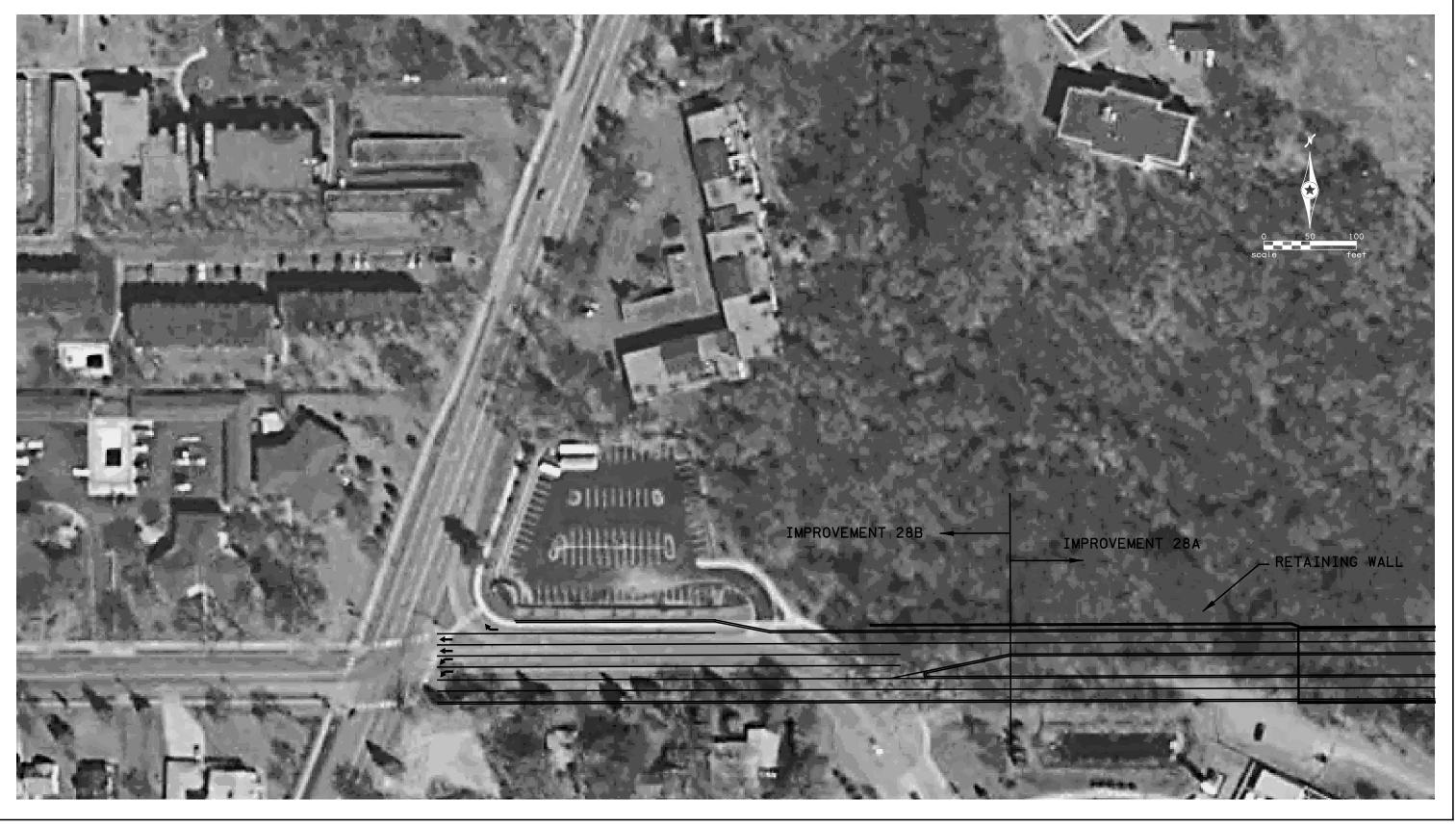


Improvement 27 Airport South Roadway Infrastructure Improvements City of Bloomington





## Improvement 28A Airport South Roadway Infrastructure Improvements City of Bloomington

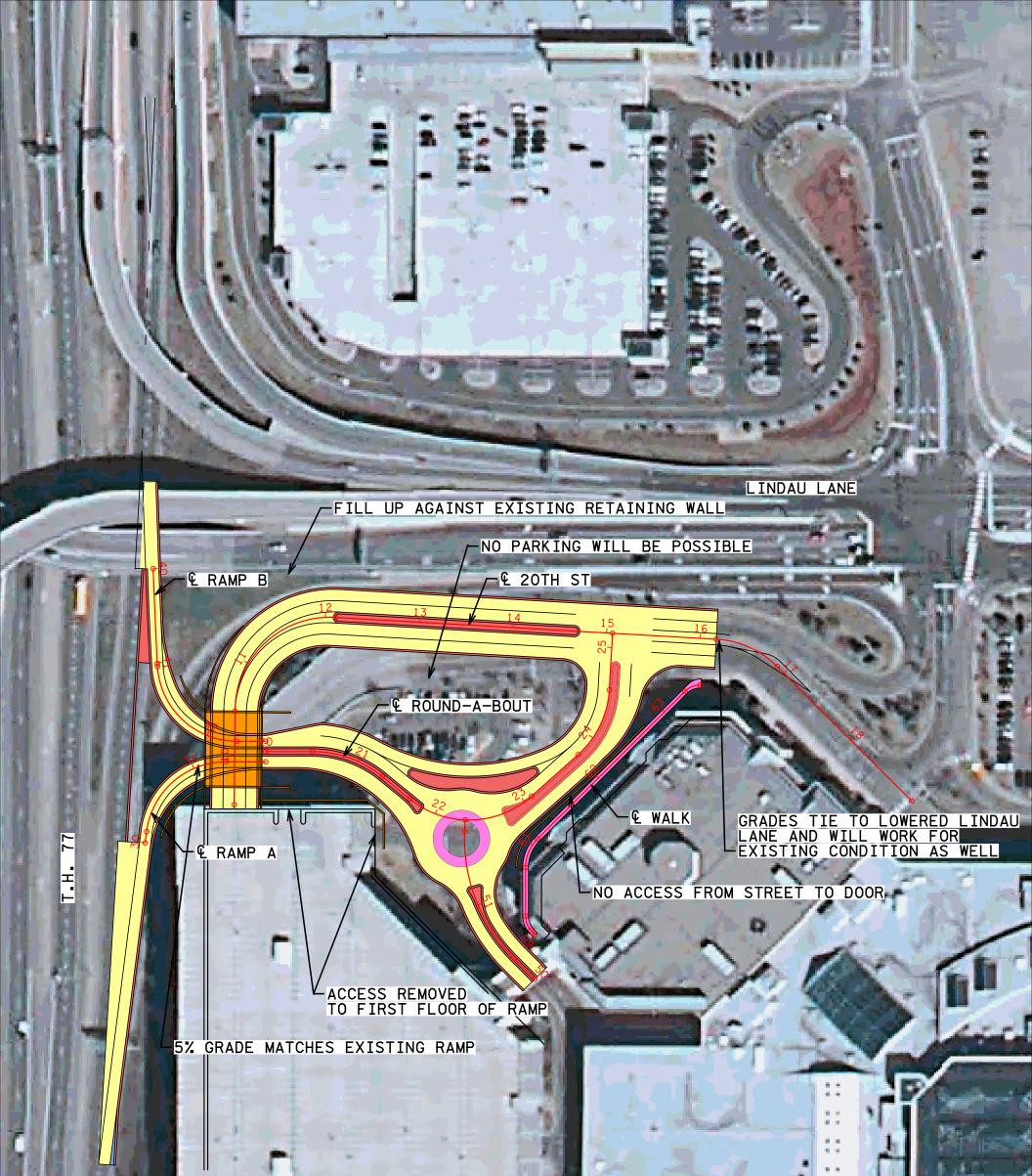




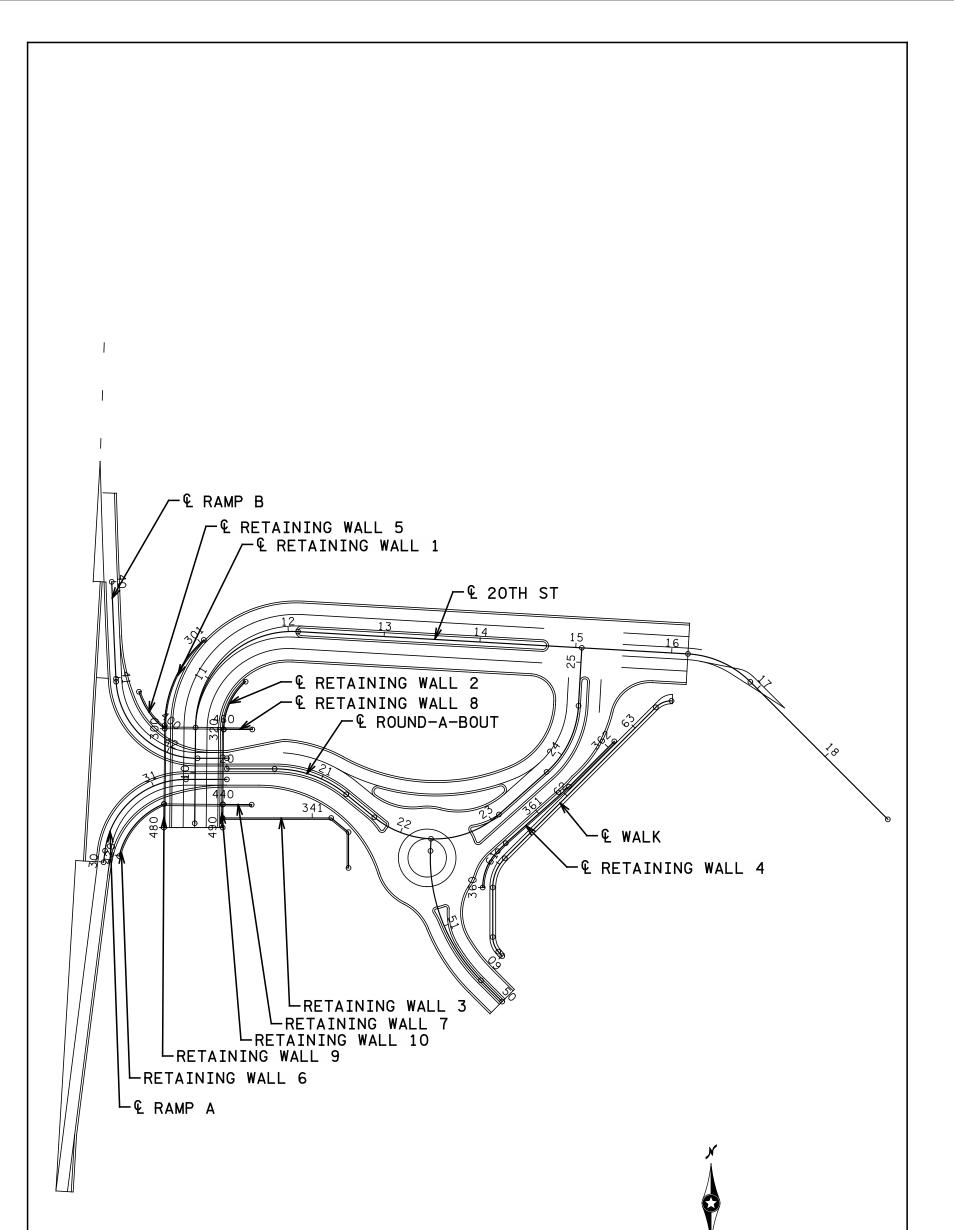
Improvement 28B Airport South Roadway Infrastructure Improvements City of Bloomington

# Attachment C

1/25/2007









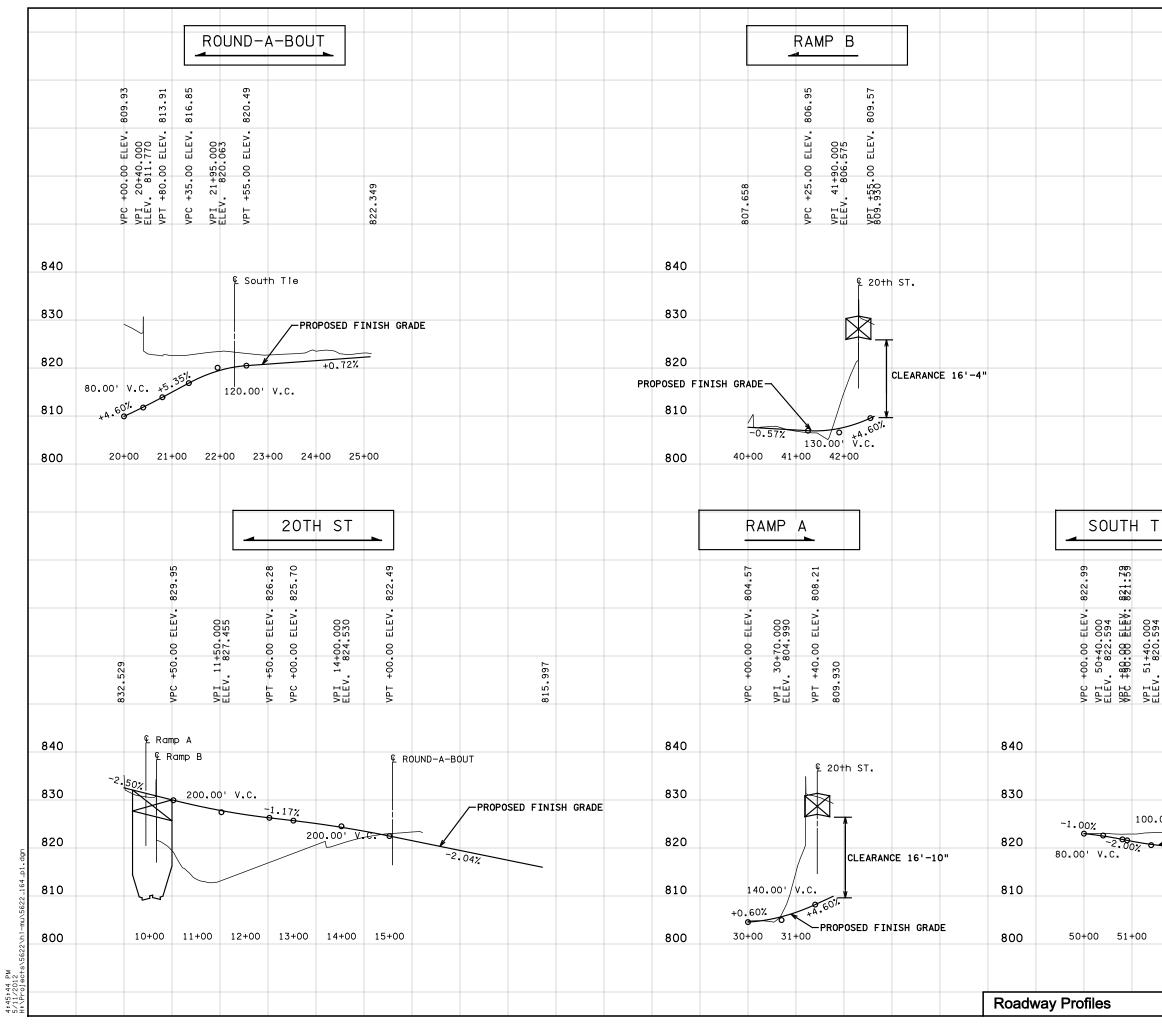


## TH 77 Connection to Lindau Lane Wall Locations

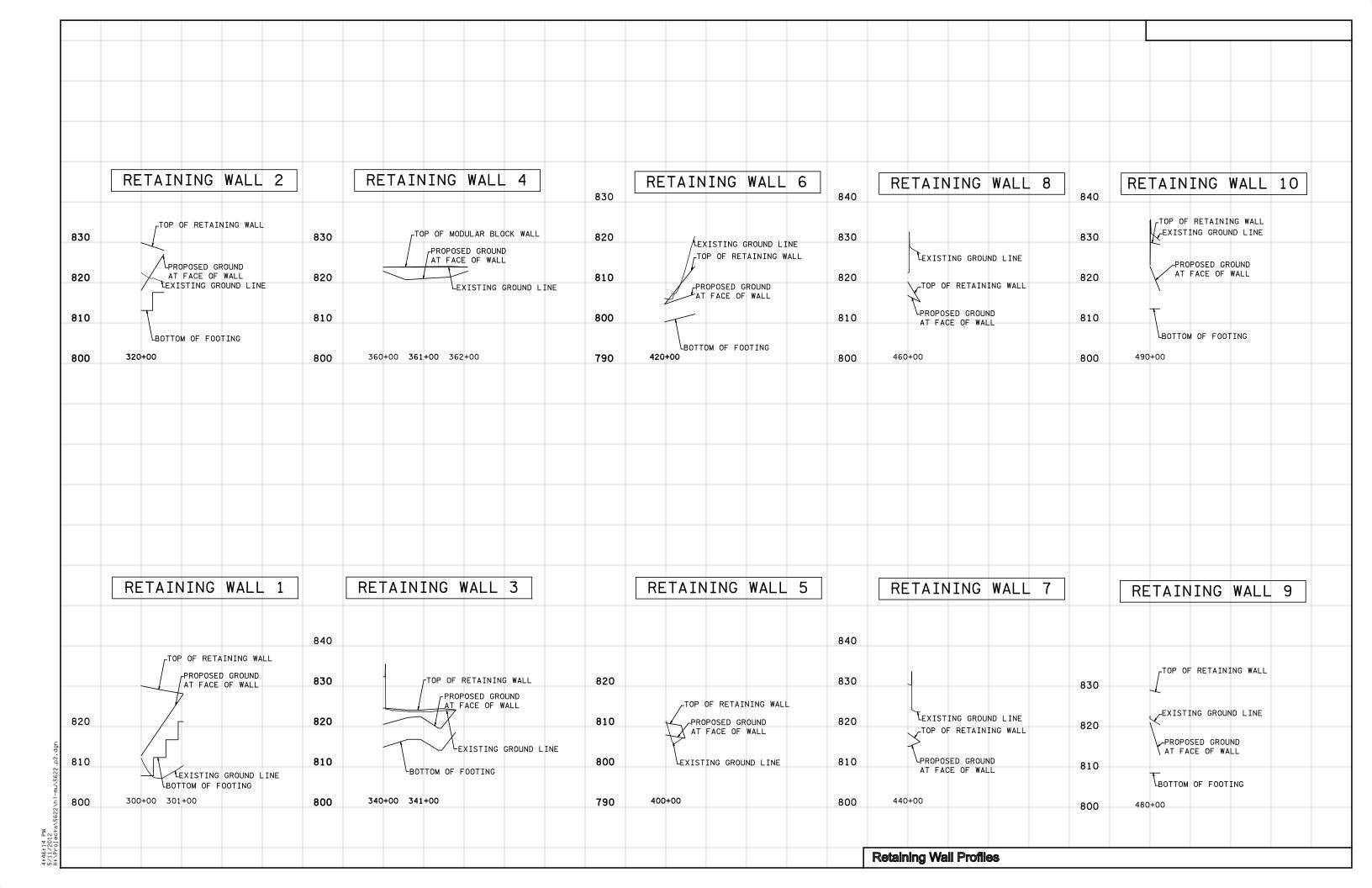
Airport South Roadway Infrastructure Improvements City of Bloomington

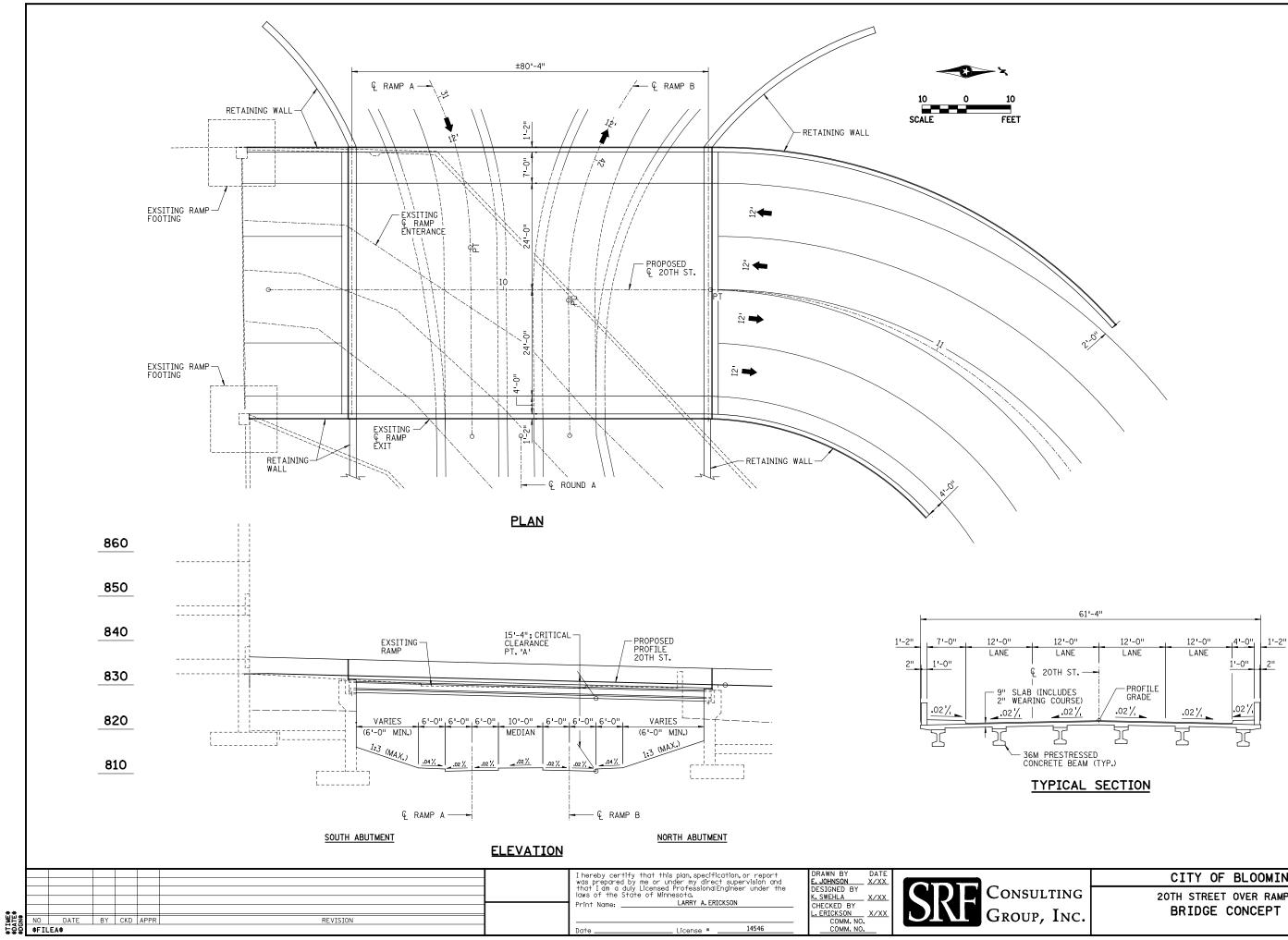
5622 3-22-2006

nph.lyl\_LJAWSS32/vm-in/SS32/stoelor9/side

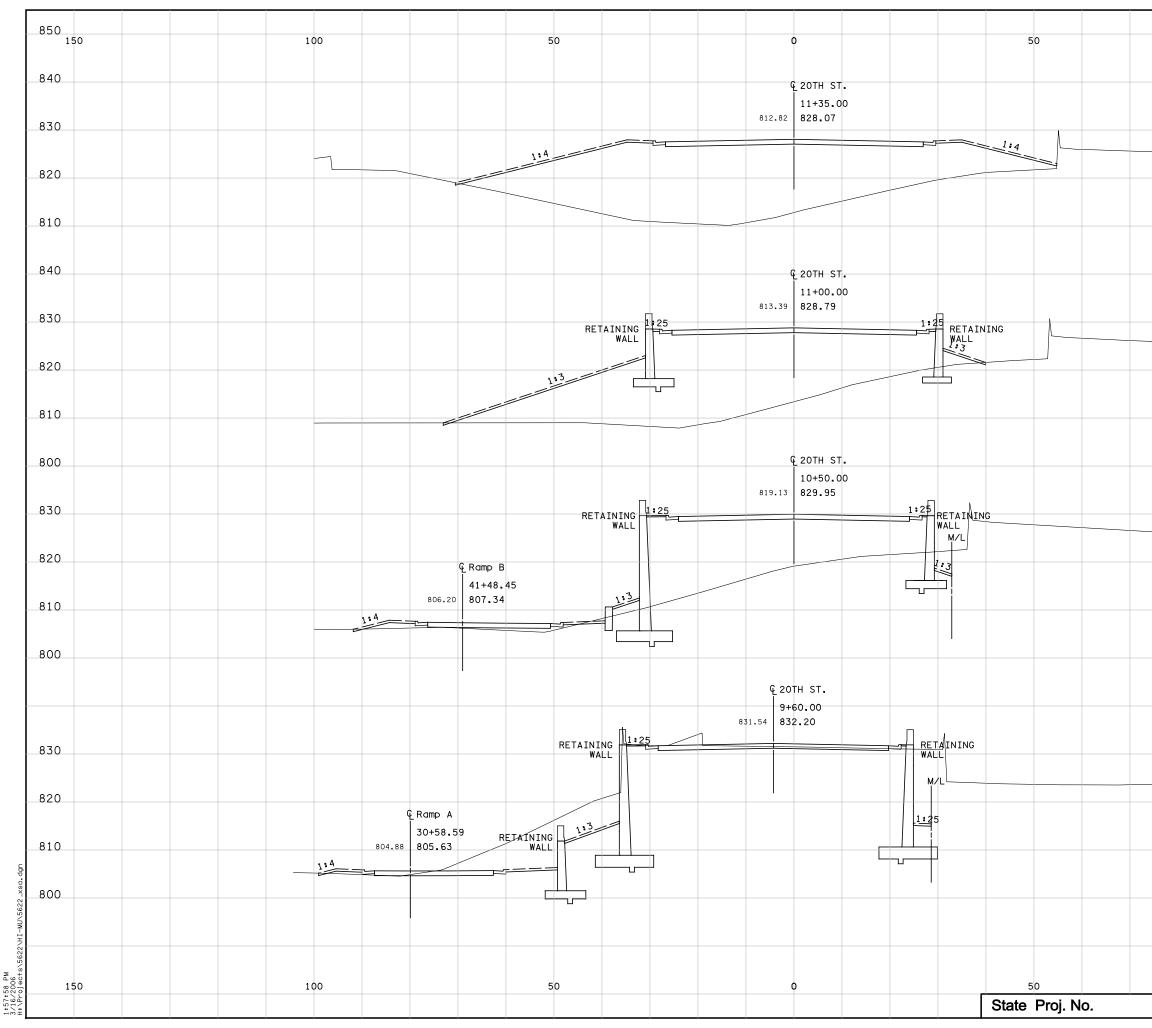


ΊE					
	<b>_</b>				
4					
820.24					
82					
- Ц					
00.					
КВД ⊀90.00 ELEV.	F J J				
КЕК. 020.334 ХВД +390.00 ELEV.	• 0 2				
⊔ ≫	D				
(	ROUND-	A-BOUT			
00'	V.C	OPOSED F	ADF		
	- '''		 		
-0.	70%				

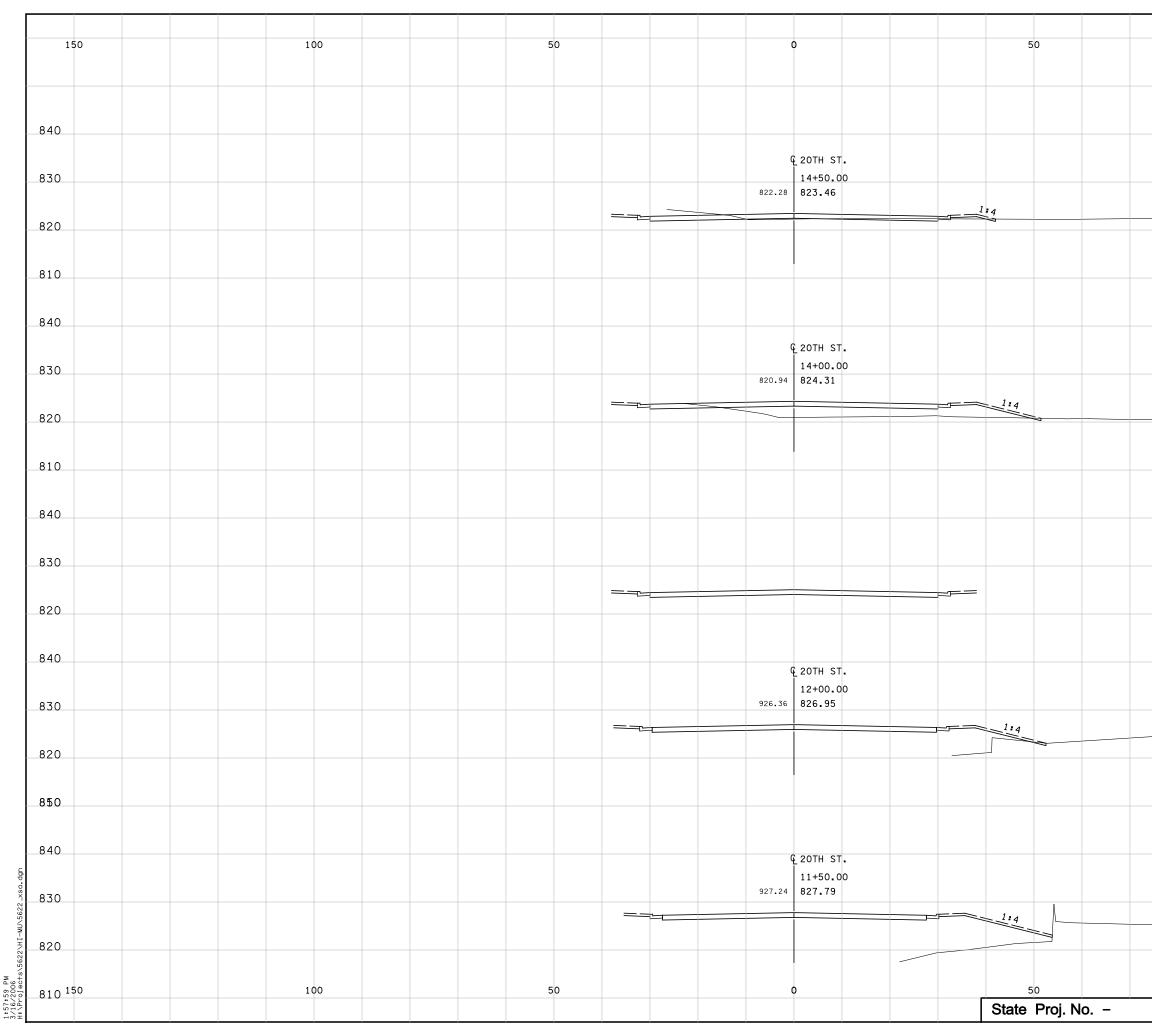




	CITY OF BLOOMINGTON	SHEET
١G	20TH STREET OVER RAMPS A & B	Х
1C.	BRIDGE CONCEPT PLAN	OF XX



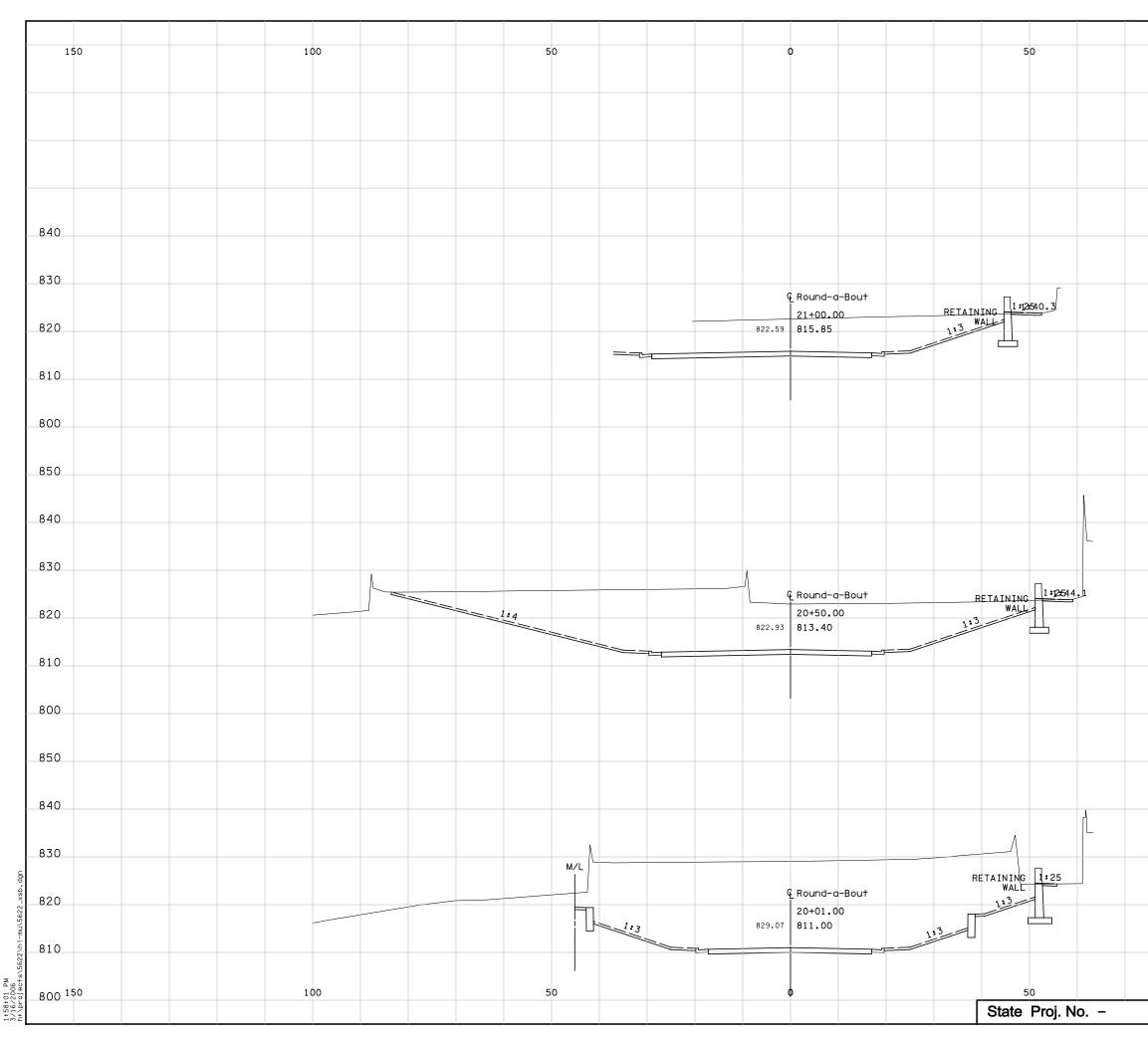
			Fed. P	roj. No.			
	10	00				1	50
							840
							830
							820
							810
							840
							040
							830
							000
							820
							020
							810
							810
							000
							800
							070
							830
							820
							810
							800
							830
							820
							810
							800
			ST	A. 9+60.	20 TH ST 00 - 114	-35,00	
	10	00					50
			She	et No.	X1 0	f X10 \$	Sheets



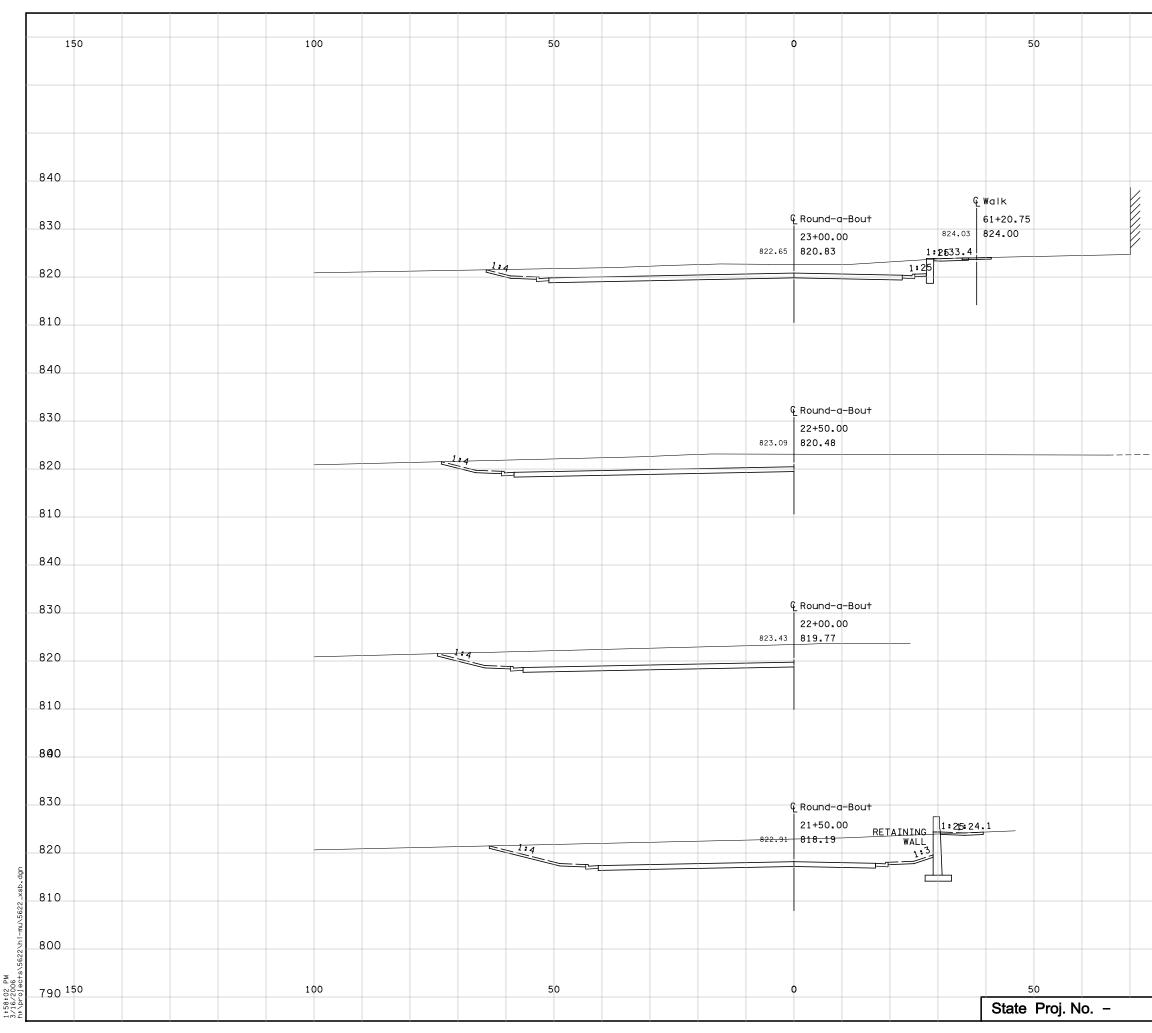
			Fed. P	roj. No.			
	10	00				1	50
							840
							040
							830
							820
							810
							840
							830
 							820
							810
							840
							830
							820
							840
							830
							820
							850
							840
							0.10
							830
							050
							000
				11.50	20 TH ST .00 - 14+	EQ. 00	820
	1 (	00	ST/	. 11+50.	.00 - 14+		50
	10		She	et No.	X2 of		<sup>50</sup> 810 Sheets

150	100		50	0		ĺ	50	
840								
830					TH ST.			
				823.35 <b>821</b>	+50.00 L.47	4		
820						 1:4		
810								
840								
					гн ѕт.			
830				822.99 <b>82</b> 2	+00.00 2.49			
820						 1:4		
810 <sup>150</sup>	100		50				50	

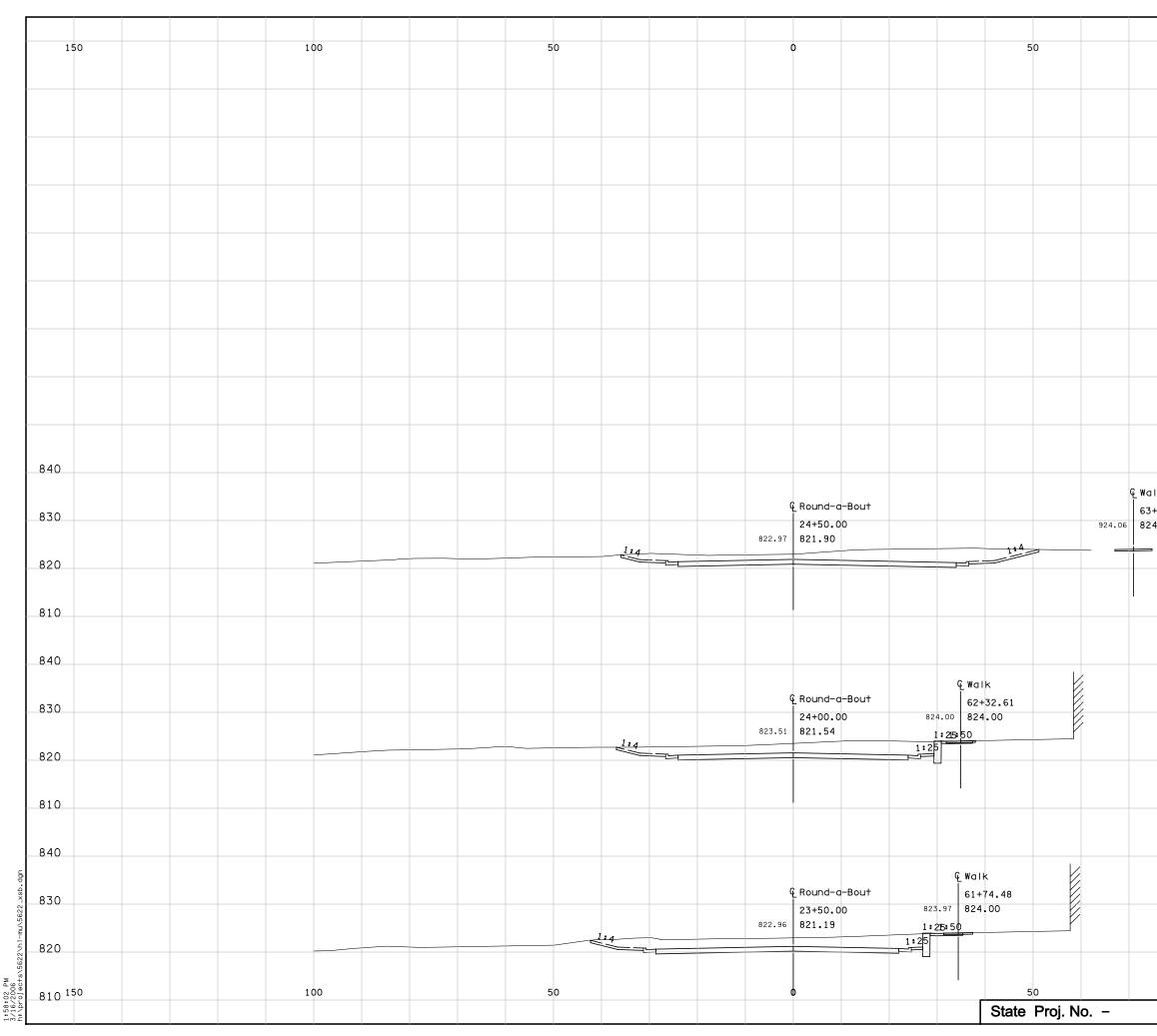
			Fed. Pr	OJ. NO.		-	50
							30
							840
							070
							830
							820
							810
							0.40
							840
							830
							820
			STA	15+00	20 TH ST 00 - 15+	50.00	
	10	00	517				50
	10		She			1	<sup>50</sup> 810



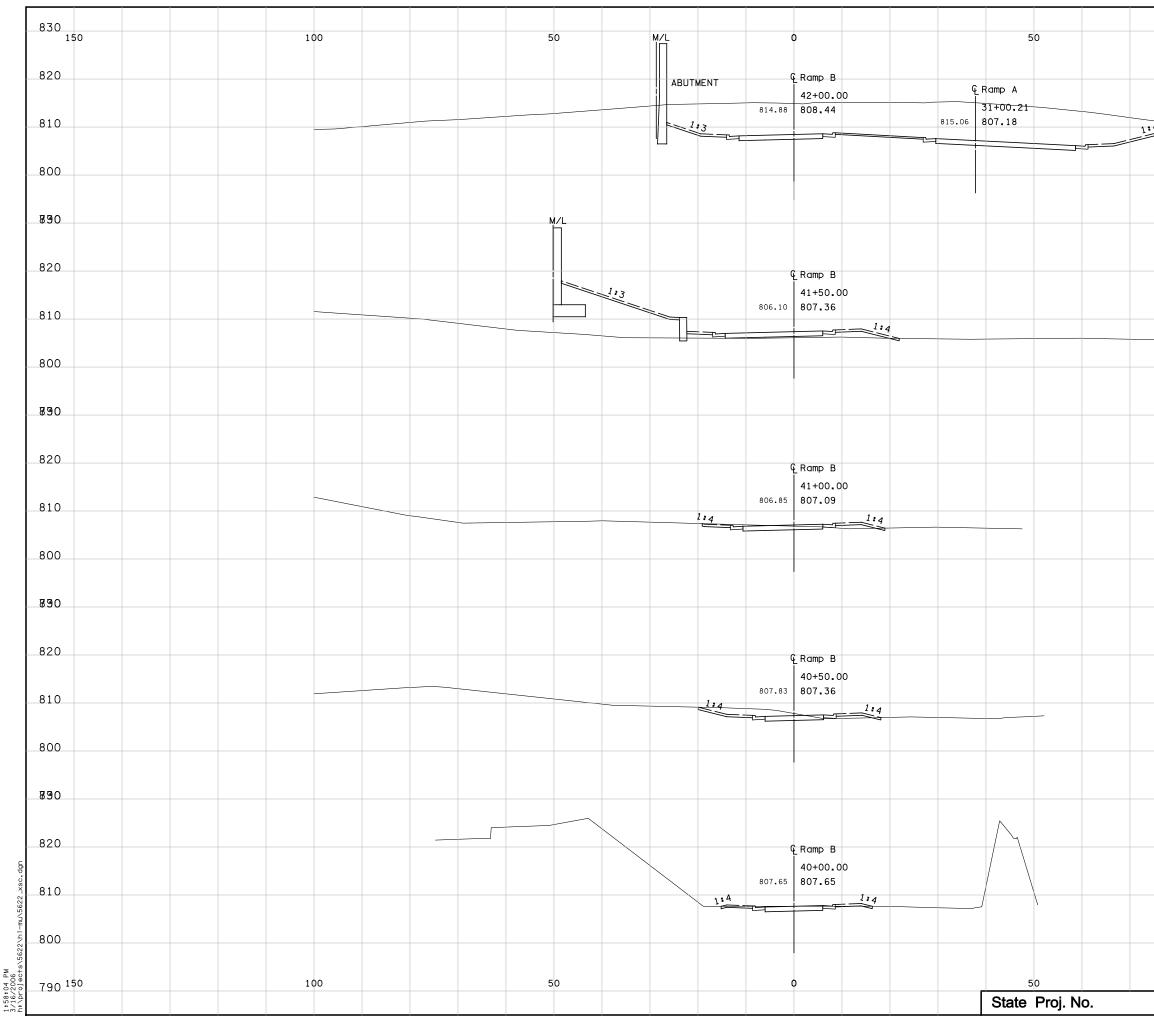
			Fed. P	roj. No.	i		
	10	00				:	150
							840
							830
							820
							810
							800
							850
							840
							830
							820
							010
							810
							800
							850
							840
							830
							820
			STA	Roi 20+01	und-a-boi 00 - 21+	u+ 00.00	810
	10	0				:	150 800
			She	et No.	X4 of	F X10	Sheets



			Fed. Pr	oj. No.			÷
	10	00				1	150
							840
							830
							820
							810
							840
							830
							830
 							820
							020
							810
							840
							830
							820
							810
							800
							830
							820
							020
							810
							010
							800
			STA	Rou 21+50	und-a-boi 00 - 23+	+ل 00 <b>.</b> 00	
	10	00				1	150 790
			She	et No.	X5 of		Sheets

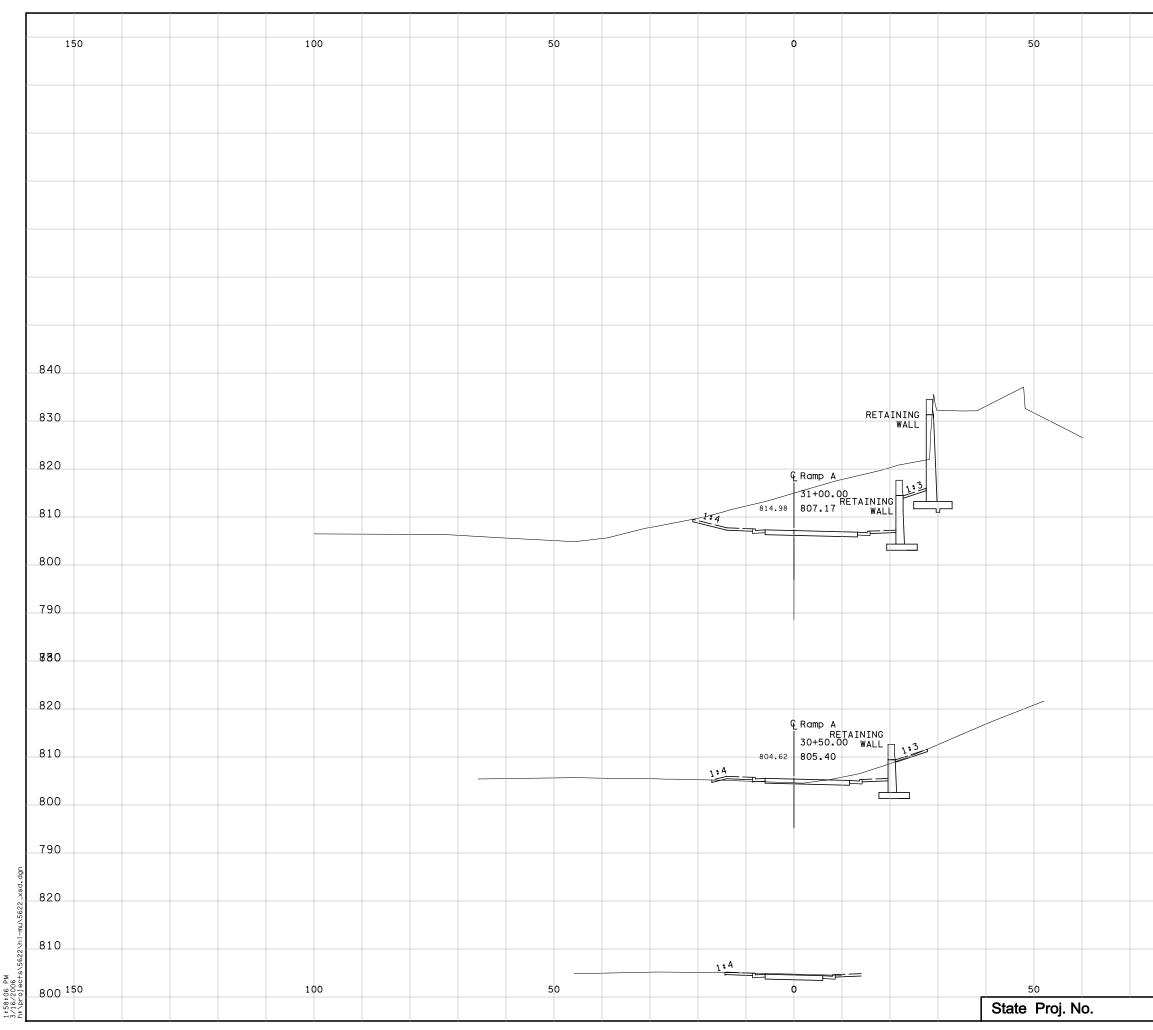


		Fed. Proj.	No.	
	100			150
				840
<				
、 15.94				830
. 00				0.50
				820
				810
				840
				830
				820
				810
				840
				830
				0.50
				000
			Round-a-bout 3+50.00 - 24+50	820
	100	STA. 23	s+50.00 - 24+50	
	100	Ok a at N	No. X6 of	<sup>150</sup> 810

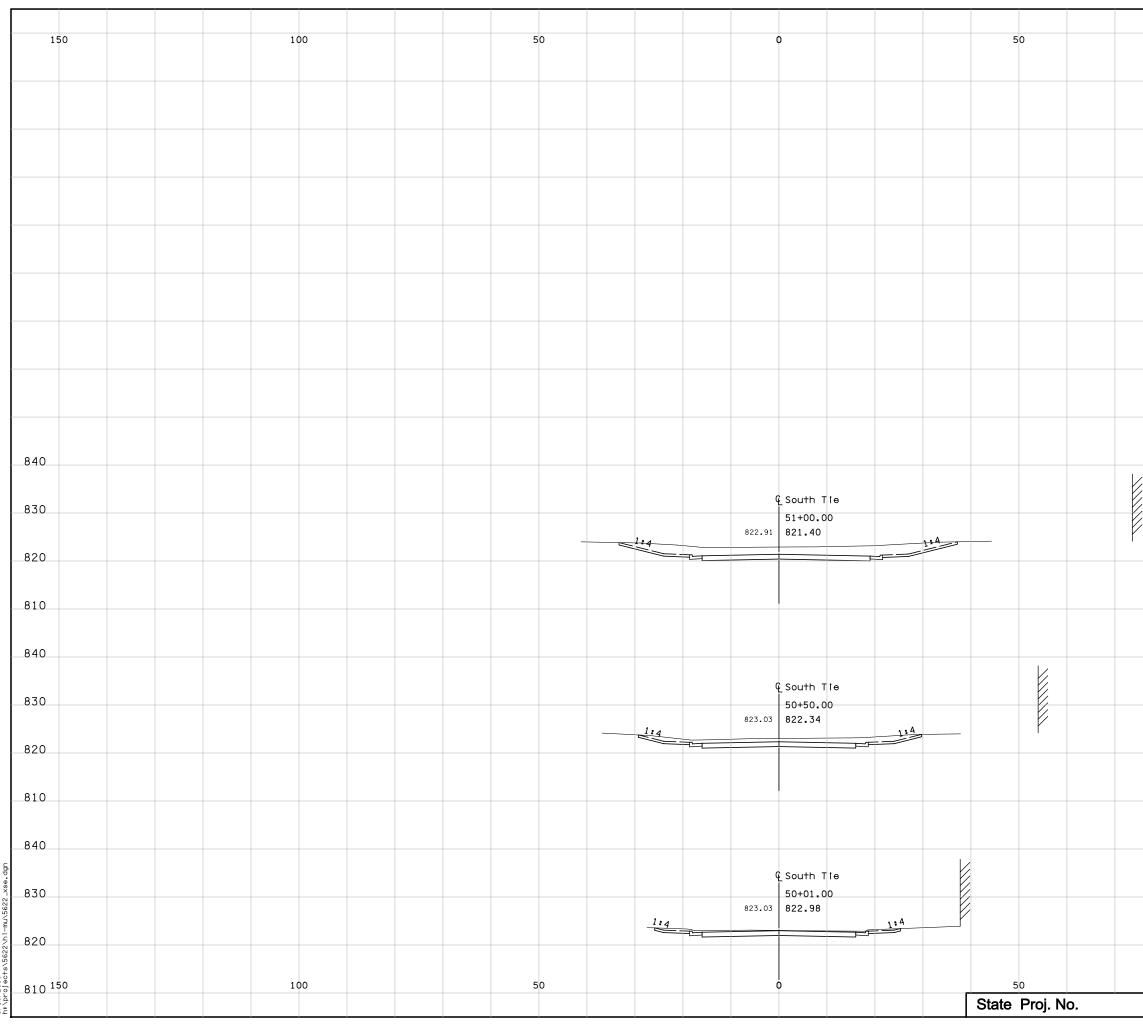


		Fed. Proj. No.	830
	100		150
			000
			820
4			810
			800
			890
			820
			810
			800
			890
			820
			810
			800
			890
			820
			020
			810
			800
			890
			820
			810
			800
		Ramp B STA. 40+00.00 - 42-	-00.00
	100	STA. 40+00.00 - 424	
	τψυ	Sheet No. X7 o	<sup>150</sup> 790 f X10 Sheets

												Fed. Proj. No.		
	150	100		50			0		5	50	100		1	50
860														860
														050
850														850
840														840
830					M/L				1	M/L				830
									ABUTMENT					
820					ABUTMEN		€ Ramp B 42+50.00	€ Ramp A 31+64.47						820
sc. dgn						829.69	810.33 829.8	4 810.31	1:3					
×- 810														810
008 VI												STA 42+50	Ramp B 00 - 42+50.00	800
1:58:05 PM 71:6/2006 h:\projects\552	150	100		50			0		5	50	100		1	<sup>50</sup> 790
1:58: 3/16/ h:/pr										Proj. No.		Sheet No.	X8 of X10 \$	Sheets



			Fed. P	roj. No.			
	10	00				1	.50
							840
							830
							820
							810
							010
							800
							800
							700
							790
							880
							820
							810
							800
							790
							820
							810
			ST	. 30+00	Ramp A .00 - 31+	00.00	010
	10	00					<sup>50</sup> 800
			She	et No.	X9 of	X10	Sheets



1:58:08 PM 3/16/2006 h:\pro!ects

			Fed. P	roj. No.			
	10	00				1	50
							0.40
///							840
							830
							820
							~ ~ ~
							810
							840
							830
							820
							810
							840
							830
				S 4. 50+01.	outh Tie		820
	10	00				1	<sup>50</sup> 810
			She	et No.	X10 of		

# **Attachment D**

1/25/2007



2030 Weekday PM Peak Hour	i Full Bullu Scenario - Ind	ividual Sile Dreal	NUOWII																																		vveekc	day Individual	
	Intersection Location	to Existing MOA	illebrew Drive / Killebrew Drive 24th Avenue 22nd Avenue	Killebrew Drive / TH 77 Ramps / 20th Avenue	/ 2012 Interim Acce from CD Roadway, 77 to Thunderbird	Rd 2012 Interim Access from Thunderbird R to Eastbound I-494 C Road	s Permanent Acce from CD Roadway 77 to Thunderbird	Rd Permanent Access and CD Roadway from Thunderbird Rd to East of 34th Ave	d Thunderbird Road st Roundabout	24th Ave / I-494 Single-Point Interchange	erican Ameri ard / 24th Boulevar e (West) Avenue		/ Old Shakopee Road, Cedar Avenue to Killebrew Drive	, American Blvd On way Conversion (3 to 34th)		American oulevard / ternational Drive	Motro Drivo	rican American Ird / 30th Boulevard / 2 Inue Avenue		34th Avenue Driveway R	Old Shakopee Old Shak d / 33rd Avenue Rd / 31st A		e Old Shakopee Road / 28th 49 Avenue	34th Avenue / I- 34 North Ramps	th Avenue / I- 494 South Ramps	24th Avenue / 82nd Street	Street Extension Contract Street Extension C	Did Shakopee Road / 86th 30 Street	Oth Avenue Wayf Si	Signs (Lower	ering / TH 77 Sy	Svetome (ITS)	indau Lane / TH 7 Ramps / IKEA Bo Way	American oulevard / IKEA Driveway		American Boulevard / Lindau La Metro Drive 22nd Ave (West)	Lane / Lindau Lar renue 24th Aven	ne / 34th Avenue / nue Appletree Squa	/ are т
	Improvement #	1, 6, 7	2 3	4	8	9	10A	10B	10C	11 12	2A 12I	3 13	14	15	16	17	18 19	9 20	20A	21	22 23	24	25	26	26	27	28A	28B	29 :	30	31, 5	<u> </u>							
Development	Improvement Costs	\$3,779,513	\$881,104 \$848,078	\$1,860,924	\$512,549	\$759,845	\$1,258,795	\$16,352,940	\$1,178,231	\$646,121 \$1,524	24,296 \$4,076	,987 \$2,207,017	\$10,295,604	\$474,094	\$2,252,575	\$170,138	\$234,356 \$617,	7,779 \$690,816	\$1,676,140	\$394,051	\$300,300 \$0	\$2,433,499	\$7,768,665	\$29,826,046	\$29,826,046	\$96,009	\$28,261,141	\$1,608,896	\$1,677,315 \$54	49,600 \$12,	2,900,000 \$	\$2,500,000	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$170
Existing	% Trips at Intersection	100%	39% 49%	56%	3%	18%	0%	12%	5%	27% 28	3% 289	6 12%	39%	5%	24%	7%	6% 109	0% 11%	20%	0%	18% 23%	5 23%	23%	34%	26%	46%	3%	40%	23% 0	0%	0%	50%	41%	57%	21%	8% 48%	45%	22%	
	Trips	575	1898 1781	2365	15	117	0	82	82	1945 233	323 232	3 204	1349	98	1296	98	88 20	05 286	97	0	611 705	941	1059	1314	1585	1656	62	1379	551	0	0	1	1782	725	793	200 1447	1879	720	34
	Cost per Development	\$3,779,513	\$344,102 \$412,572	\$1,036,769	\$15,224	\$138,476	\$0	\$1,918,371	\$55,272	\$174,035 \$427	7,598 \$1,143	,683 \$273,199	\$4,009,460	\$23,608	\$531,658	\$11,709	\$14,382 \$59,7	,766 \$73,447	\$327,794	\$0	\$54,738 \$0	\$558,790	\$1,788,871	\$10,028,512	\$7,753,696	\$44,005	\$798,628	\$639,939	\$386,857 \$	\$0	\$0 \$	1,250,000	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$38,0
1 BCS - Northwest Office - (472D)	% Trips at Intersection	0%	1% 1%	1%	0%	0%	0%	0%	0%	2% 2%	% 2%	. 0%	1%	7%	2%	1%	1% 6%	% 5%	0%	0%	3% 3%	5%	2%	1%	2%	0%	1%	1%	9% 0	0%	0%	0%	0%	1%	0%	5% 0%	0%	3%	
	Trips	0	71 51	51	0	0	0	0	0	122 13	31 13	1 0	40	128	114	19	20 13	31 131	0	0	95 95	185	91	28	114	0	20	40	207	0	0	0	0	10	10	131 0	0	95	2
	Cost per Development	\$0	\$12,872 \$11,814	\$22,357	\$0	\$0	\$0	\$0	\$0	\$10,916 \$24,	,113 \$64,4	195 \$0	\$118,887	\$30,835	\$46,766	\$2,270	\$3,269 \$38,7	,192 \$33,642	\$0	\$0	\$8,511 \$0	\$109,858	\$153,718	\$213,697	\$557,679	\$0	\$257,622	\$18,562	\$145,335	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$1,8
2 BCS - SW Office - (472D)	% Trips at Intersection	0%	3% 3%	2%	0%	0%	0%	0%	0%	3% 3%	% 3%	8%	2%	0%	4%	0%	0% 6%	% 5%	0%	0%	7% 7%	8%	4%	1%	4%	4%	2%	2%	19% 0	0%	0%	0%	0%	2%	1%	5% 0%	3%	7%	
	Trips	0	141 101	101	0	0	0	0	0	241 26	62 26	2 134	80	0	228	0	0 12	27 127	0	0	228 229	331	181	57	228	134	40	80	458	0	0	0	0	21	21	127 0	134	228	4
	Cost per Development	\$0	\$25,563 \$23,397	\$44,276	\$0	\$0	\$0	\$0	\$0	\$21,564 \$48,	\$,227 \$128,	991 \$179,454	\$237,774	\$0	\$93,533	\$0	\$0 \$37,0	,026 \$32,615	\$0	\$0	\$20,426 \$0	\$196,556	\$305,747	\$435,027	\$1,115,358	\$3,561	\$515,244	\$37,125	\$321,561	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$3,8
3 BCS - Central Park - (472D)	% Trips at Intersection	0%	3% 3%	3%	0%	0%	0%	0%	0%	3% 39	% 3%	0%	3%	13%	5%	4%	14% 119	1% 9%	0%	0%	7% 6%	5%	4%	3%	5%	0%	2%	3%	2%	0%	0%	0%	0%	2%	1%	10% 0%	0%	7%	
	Trips	0	154 110	110	0	0	0	0	0	219 24	41 24	1 0	88	251	292	58	194 24	41 241	0	0	234 197	197	197	102	292	0	44	88	48	0	0	0	0	22	22	241 0	0	234	4
	Cost per Development	\$0	\$27,920 \$25,482	\$48,222	\$0	\$0	\$0	\$0	\$0	\$19,596 \$44,	,361 \$118,	652 \$0	\$261,551	\$60,466	\$119,787	\$6,930	\$31,705 \$70,2	,262 \$61,891	\$0	\$0	\$20,964 \$0	\$116,984	\$332,774	\$778,469	\$1,428,441	\$0	\$566,769	\$40,837	\$33,701	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$4,2
4 BCS - Hotel - (472D)	% Trips at Intersection	0%	1% 1%	1%	0%	0%	0%	0%	0%	0%	9/09/		1%	3%	1%	5%	20/ 20/	% 1%	0%	0%	2% 1%	1%	1%	1%	19/	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	1%	0%	1%	
	Trips	0	31 22	22	078	0	0	0	0	27 33	32 32	0	18	68	72	68	22 32	32 32	0 %	078	65 39	39	39	30	73	0	9	18	10	0	0	0	0	4	4	32 0	0 /8	26	,
	Cost per Development	\$0	\$5,620 \$5,096	\$9,644	\$0	\$0	\$0	\$0	\$0	\$2,416 \$5,8	,890 \$15,7	755 \$0	\$53,499	\$16,381	\$29,537	\$8,125	\$3,595 \$9,3	329 \$8,218	\$0	\$0	\$5,823 \$0	\$23,159	\$65,879	\$228,961	\$357,110	\$0	\$115,930	\$8,353	\$7,021	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$98
6 BCS - NE Housing - (472D)	9/ Trips at Interposition	0%	20/ 20/	20/	0%	0%	0%/	0%/	0%	0%	°( 0)		29/	20/	70/	40/	00/ 10	0/ 10/	0%	100%	0% 5%	40/	20/	50/	70/	0%	20/	29/	0%	0%	0%	- 0%	0%	19/	00/	10/ 00/			
6 BCS - NE Housing - (472D)	% Trips at Intersection Trips	0%	122 87	87	0%	0%	0%	0%	0%	0% 0%	17 17	0%	70	57	407	4% 57	6 17	7 17	0%	205	<u>9%</u> 5% 308 157	157	157	196	407	0	35	70	11	0	0	0%	0%	17	17	17 0%	0%	151	2
	Cost per Development	\$0	\$22,118 \$20,154	\$38,139	\$0	\$0	\$0	\$0	\$0	\$0 \$3,1	129 \$8,3	70 \$0	\$208,052	\$13,731	\$166,964	\$6,810	\$981 \$4,9	956 \$4,366	\$0	\$394,051	\$27,593 \$0	\$93,231	\$265,206	\$1,495,882	\$1,991,012	\$0	\$450,839	\$32,484	\$7,723	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$5,2
		2011	10/ 10/	10/	001				201				10/			201		or			50/ 40/	10/	404	404	001	001	00/	10/					201		201				
7 BCS - SE Housing - (472D)	% Trips at Intersection Trips	0%	<u>1%</u> 1% 34 25	1%	0%	0%	0%	0%	0%	0 5	% 0% 5 5	0%	1%	2	2%	2	2 5	% <u>0%</u> 5 5	0%	0%	5% 1% 157 43	1%	1%	1%	2%	0%	9	1%	3	0%	0%	0	0%	<u>     0%</u> 5	<u>    0%</u> 5	<u> </u>	0%	4%	
	Cost per Development	\$0	\$6,164 \$5,791	\$10,960	\$0	\$0	\$0	\$0	\$0	\$0 \$92	920 \$2,4	62 \$0	\$53,499	\$482	\$46,766	\$239	\$327 \$1,4	458 \$1,284	\$0	\$0	\$14,065 \$0	\$25,535	\$72,636	\$419,763	\$557,679	\$0	\$115,930	\$8,353	\$2,106	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$1,3
				101									10/																										
8 BCS - Health Partners Expansion - (472D)	% Trips at Intersection	0%	1% 1%	1%	0%	0%	0%	0%	0%	0% 0%	% 0% 7 7	» 0% 0	1%	0%	3%	0%	0% 0% 6 7	% <u>0%</u> 7 7	0%	0%	5% 3% 160 106	2%	1%	2%	3%	0%	1%	1%	<u> </u>	0%	0%	0%	0%	1%	0%	<u> </u>	0%	5%	
	Cost per Development	\$0	\$8,702 \$8,108	\$15,343	\$0	\$0	\$0	\$0	\$0	\$0 \$1,2	289 \$3,4	46 \$0	\$77,276	\$1,445	\$65,637	\$0	\$981 \$2,0	041 \$1,798	\$0	\$0	\$14,334 \$0	\$36,817	\$103,042	\$671,620	\$787,599	\$0	\$167,454	\$12,066	\$702	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$1,9
9 Park and Ride - (472E)	% Trips at Intersection	0%	<u>5%</u> 2% 246 58	1%	0%	0%	0%	0%	0%	0% 19	% 1%	21%	11%	0%	0%	0%	0% 1%	% 2%	1%	0%	0% 0%	3%	9%	0%	0%	0%	9%	11%	6% 0	0%	0%	0%	0%	4%	1%	1% 0%	0%	0%	
	Cost per Development	\$0	\$44,599 \$13,436	\$25,426	\$0	\$0	\$0	\$0	\$0	\$0 \$8,8	835 \$23,6	332 \$452,653	\$1,117,537	\$0	\$0	\$0	\$0 \$6,9	997 \$12,327	\$13,517	\$0	\$0 \$0	\$71,259	\$733,116	\$0	\$0	\$0	\$2,421,647	\$174,487	\$101,102	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$5,2
10 BCS - Retail/Grocery - (472E)	% Trips at Intersection	0%	2% 2%	1%	0%	0%	0%	0%	0%	2% 2%	2%	18%	1%	1%	2%	2%	2% 2%	% 4%	10%	0%	3% 3%	2%	2%	1%	2%	2%	1%	1%	5% 0	0%	0%	0%	0%	1%	0%	1% 0%	2%	3%	
	Cost per Development	\$0	\$15,592 \$14,131	\$26,741	\$0	\$0	\$0	\$0	\$0	\$14,585 \$32,	2,397 \$86,6	50 \$388,371	\$148,609	\$6,504	\$50,048	\$3,226	\$4,413 \$9,6	621 \$26,708	\$165,586	\$0	\$8,511 \$0	\$56,413	\$187,502	\$412,131	\$596,814	\$2,179	\$322,028	\$23,203	\$82,146	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$2,6
11 BCS - West Office - (472D)	% Trips at Intersection	0%	3% 3%	2%	0%	0%	0%	0%	0%	3% 3%	3%	0%	2%	2%	4%	3%	3% 129	2% <u>9%</u>	0%	0%	5% 6%	8%	4%	1%	4%	0%	2%	2%	25% 0	0%	0%	0%	0%	1%	0%	10% 0%	0%	5%	
	Cost per Development	\$0	\$23,931 \$21,775	\$41.208	\$0	\$0	\$0	\$0	\$0	\$19.596 \$43.	38 23 3.809 \$117.	175 \$0	\$225.885	\$9.636	\$89.020	\$4.779	\$6.537 \$76.3	.384 \$61.377	\$0	\$0	\$15.857 \$0	\$205.464	\$285.476	\$442.659	\$1.056.655	\$0	\$489.482	\$35.269	\$426.876	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$3.6
12 AUAR - (472C)	% Trips at Intersection		1% 1%			0%	0%	0%	0%	5% 5%					6%																0%	0%	2%	2%	1%	20% 2%	2%	4%	
	Cost per Development	\$0	62 34 \$11,240 \$7,876	\$14,905	\$0	\$0	\$0	\$0	\$0	\$29,796 \$78,	27 42 3.599 \$210.	225 \$70.978	\$166.442	\$17	345 \$141,529	\$17 \$97.615	\$90.703 \$164.	480 4.139 \$123.268	\$179.104	\$0	129 129 \$11.557 \$0	\$76.604	\$152.029	\$602.932	300 \$1.467.576	\$0	28 \$360.671	\$25.987	\$63.891	\$0	\$0	0 \$0	\$0	\$0	\$0	480 69 \$0 \$0	\$0	\$0	\$4.3
											,,																												
14 AUAR - (471B)	% Trips at Intersection	0%	0% 0%	0%	0%	0%			0%	0% 0%	% 0%	0%	1%	0%	0%	0%	0% 0%	% 0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	2%	1%	0% 0	0%	0%	0%							
	Cost per Development	\$0	<u>19</u> <u>11</u> \$3,445 \$2,548	11 \$4 822	0 \$0	\$0	0	0	0 \$0	6 7 \$537 \$1,2	7 7 289 \$3.4	46 \$0	\$101.054	<u> </u>	15 \$6 153	0 \$0	0 0 \$0 \$0	0 0 50 \$0	<u> </u>	0 \$0	15 15 \$1.344 \$0	15 \$8,907	15 \$25,338	2 \$15.264	15 \$73.379	8 \$213	49 \$631 174	34 \$15,778	50 S	\$0	0 \$0	\$0	\$0	1 \$0	1 \$0	0 0 \$0 \$0	<u> </u>	15	\$80
	Cool per Development						÷.	÷.																															
15 AUAR - Kelly Farms - (471C)	% Trips at Intersection	0%	12%         12%           591         440	10%	0%	0%	0%	0%	0%	2% 2%	% 2%	0%	11%	0%	8%	0%	0% 0%	% 0%	0%	0%	12% 13%	10%	22%	2%	7%	4%	63%	11%	0% 0	0%	0%	0%	0%	3%	1%	0% 0% 0 0	4%	13%	4
	Trips Cost per Development	0	591 440 \$107,147 \$101,927	\$192 887	0	0	0	0 \$0	0	110 15 \$9,843 \$27,	51 15 795 \$74?		\$1 102 676	0	412 \$169.015	0	0 0	0 0	0	0	412 412 \$36,910 \$0	\$244,656	1003 \$1.694.275	70 \$534.243	412 \$2,015,472	151 \$4.013	1374	371 \$172.166	0	0	0 \$0	0 \$0				0 0 \$0 \$0			
		ψŪ	\$107,1 <del>4</del> 7 \$101,327	ψ1 <u>32</u> ,007	ψŪ	ψυ	ψŪ	ψŪ	ΨŬ	ψ3,043 ψ21,	,100 ¢14,	ψ0	ψ1,10 <u>2</u> ,010	ψŪ	\$103,013	ψ0	ψυ ψυ	40 40	ψŪ	ΨŬ	φου,στο φυ	φ244,000	ψ1,00 <del>4</del> ,275	ψ <del>004</del> ,240	ψ2,013,472	ψ+,010 4	J17,000,000	\$17 <u>2</u> ,100	ψυ	φu	ψŪ	<b>4</b> 0	ψυ	ψU	ψυ	φ <b>υ</b> φ <b>υ</b>	<b>40</b>	<b>40</b>	ψ24;
16 AUAR - (471D)	% Trips at Intersection	0%	6% 6%	5%	0%	0%	0%	0%	0%	1% 19	% 1%	. 0%	2%	0%	3%	0%	0% 2%	% 1%			5% 5%						1%	2%	1% (	0%	0%	0%	0%	1%	0%	1% 0%			
	Trips	0	296 231	231	0	0	0	0	0	52 64	64 64 .781 \$31.5	0	62 \$184.275	0	154 \$63.175	0	0 34	34 34 912 \$8.732	0	0	154 154 \$13,797 \$0	514	327	26	154	34	31 \$399.314	62 \$28,772	34 \$23.871	0	0	0	0	16	16	34 0	34	<u> </u>	2
	Cost per Development	ψ	\$53,664 \$53,512	\$101,266	φU	<u>۵</u> ۵	φU	φU	φU	φ4,000 \$11,	,701 \$31,5	υφ φυ	φ104,∠/Ο	φU	φυο,170	φU	φυ \$9,9	οιz φο,/ 32	φU	φU	φιο,τστ \$0	\$3U3,227	φυυ2,37 Ι	\$190,400	φ103,300	φ <del>9</del> 00	დევე <sup>,</sup> 14	ψ20,112	φ23,071	ψυ	ψυ		φυ	φυ	φυ	φ0 \$0 	ψŪ	φU	\$Z,
17 AUAR - (471E)	% Trips at Intersection		0% 0%				0%	0%	0%	0% 0%	% 0%	0%	0%	0%	2%	0%	0% 0%	% 0%	0%	0%	0% 1%	0%	0%	1%	2%	0%	1%	0%	0% 0	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	
	Trips	0	2 0 \$363 \$0	0	0	0	0		0	0 5 \$0 \$92	5 5	1	16	3	113	3	3 4	4 5	1	0	16 16	16	15	42	93	2	14	16	1	0	0	0	0	3	3	4 0 \$0 \$0	2	16	
	Cost per Development	\$U	\$363    \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$U \$92	\$2,4	b∠ \$1,339	\$47,555	\$723	\$46,356	\$358	\$490 \$1,1	אסד: \$1,284	\$3,379	\$0	\$1,433    \$0	\$9,501	\$25,338	\$320,546	\$454,949 	\$53	\$180,335	\$7,425	\$702	φU	<b>Φ</b> U	\$U	\$0	\$0	\$0	<b>\$</b> 0 <b>\$</b> 0	\$0	\$0	\$1,1
18 AUAR - (471F)	% Trips at Intersection	0%	1% 0%	0%	0%	0%	0%	0%	0%	0% 19	% 1%	0%	4%	3%	15%	4%	4% 3%	% 2%	1%	0%	3% 3%	2%	2%	10%	11%	1%	4%	4%	0% 0	0%	0%	0%	0%	2%	1%	2% 0%	1%	3%	
		•								-						·				·			•				·		-										

ite Breakdown
TOTAL
\$170,439,471
28% 34,632
\$38,074,675
2%
2,261 \$1,885,412
<u>3%</u> 4,301
\$3,823,024
4%
4,358 \$4,215,762
<u>1%</u> 866
\$985,343
2%
2,866
\$5,255,790
<u>1%</u> 856
\$1,346,418
1%
1,203
\$1,979,701
2% 2,630
\$5,220,570
2%
2,516
\$2,684,108
<u>3%</u> 4,246
\$3,698,850
6%
6,953
\$4,344,482
0%
303 \$894,691
6%
7,928
\$24,186,003
2%
2,966 \$2,798,522
0%
420
\$1,106,679
3%

	Intersection Location	New NB TH 77 Access to Existing MOA	ent Breakdov		Killebrew Drive / TH 77 Ramps /	2012 Interim Access from CD Roadway/T	2012 Interim Access from Thunderbird R to Eastbound I-494 C	Permanent Access Rd From CD Roadway/TI 77 to Thunderbird Re	Permanent Access an CD Roadway from Thunderbird Rd to Ea	d Thunderbird Road st Roundabout	24th Ave / I-494 Single-Point	American Boulevard / 24th	American oulevard / 24th Avenue (East)	enue / Cedar Avenu	Road, American Blvd ( to way Conversion		American Boulevard / International			American Boulevard / 28th 28	34th Bth Avenue	Avenue Old Shak veway Rd / 33rd A	opee Old Shakope venue Rd / 31st Aver	ee Old Shakopee nue Rd / 30th Avenue	Old Shakopee Road / 28th	34th Avenue / I- 494 North Ramps	84th Avenue / I- 494 South			Road / 86th	30th Avenue	Wayfinding Signs	Lindau Lane Improvements (Lowering / TH 77	Intelligent Transportation Systems (ITS)		TH American EA Boulevard / IKEA		American Boulevard / Metro Drive	Lindau Lane / 22nd Avenue	eekday Futu A / Lindau Lane 24th Avenue	Lane / 34t
	Improvement #	(Roundabout) 1, 6, 7			20th Avenue 4		d Road 9	10A	d of 34th Ave 10B	10C	11	Avenue (West) 12A	12B 1:	Killebrew Di 3 14	ve to 34th) 15	Avenue 16	Drive           17	(East) 18	Avenue 19	Avenue 20	20A	21 22	23	24	25	26	Ramps 26	27	Avenue 28A	28B	29	30	Ramps / IKEA Way) 31, 5		Way	Driveway	Road	(West)			
Development	Improvement Costs	\$3,779,513	\$881,104	\$848,078	\$1,860,924	\$512,549	\$759,845	\$1,258,795	\$16,352,940	\$1,178,231	\$646,121	\$1,524,296	\$4,076,987 \$2,20	7,017 \$10,295,60	4 \$474,094	\$2,252,575	\$170,138	\$234,356	\$617,779	\$690,816 \$	\$1,676,140 \$3	94,051 \$300,3	0 \$0	\$2,433,499	\$7,768,665	\$29,826,046	\$29,826,046	\$96,009	\$28,261,141	\$1,608,896	\$1,677,315	\$549,600	\$12,900,000	\$2,500,000	\$0	\$0	\$0	\$0	\$0	\$0	
f Bloomington	% Trips at Intersection	0%	19%	16%	9%	3%	18%	0%	12%	5%	11%	9%	9% 12	% 25%	4%	21%	6%	6%	5%	7%	20%	0% 14%	19%	14%	18%	13%	18%	12%	3%	26%	3%	0%	0%	50%	3%	29%	10%	4%	4%	11%	<u> </u>
	Trips	0	910	603	381	15	117	0	82	82	809	771	771 20	4 856	83	1148	83	83	99	185	97	0 478	572	559	812	520	1077	439	62	886	65	0	0	1	121	363	363	99	121	464	4
	Cost per Development	\$0	\$164,980	\$139,686	\$167,023	\$15,224	\$138,476	\$0	\$1,918,371	\$55,272	\$72,388	\$141,919	\$379,587 \$273	199 \$2,544,17	\$19,995	\$470,944	\$9,917	\$13,565	\$28,863	\$47,510 \$	\$327,794	\$0 \$42,82	3 \$0	\$331,949	\$1,371,636	\$3,968,665	\$5,268,599	\$11,666	\$798,628	\$411,157	\$45,636	\$0	\$0	\$1,250,000	\$0	\$0	\$0	\$0	\$0	\$0	ł
	% Trips at Intersection	100%	15%	30%	45%	0%	0%	0%	0%	0%	13%	15%	15% 09	6 9%	0%	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	33%	0%	9%	0%	0%	0%	0%	30%	11%	4%	0%	41%	32%	4
	Trips	575	728	1091	1897	0	0	0	0	0	973	1256	1256 0	320	0	0	0	0	0	0	0	0 0	0	0	0	0	0	1204	0	320	0	0	0	0	1291	133	133	0	1252	134	Ŧ
	Cost per Development	\$3,779,513	\$131,984	\$252,732	\$831,607	\$0	\$0	\$0	\$0	\$0	\$87,062	\$231,194	\$618,367 \$	) \$951,095	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$31,994	\$0	\$148,499	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Ţ
	01 Trian at latena attian	00/	00(	0%	001	00/	0%	00/	00(	001	001	001		(	0%	001	0%	001	0%	0%	001	0%		001	001	0%	09/	000	09/	001	0%	001	00/	0%		40%		001			7
	% Trips at Intersection	0%	13	0%	0%	0%	0%	0%	0%	0%	132	2%	195 0	0 0%	0%	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	13	0%	13	0%	0%	0%	0%	370	15%	227	0%	69	6	<u>~</u>
	Cost per Development	\$0	\$2,357	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,811	\$35,894	\$96,004 \$	) \$38,638	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$345	\$0	\$6,033	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$	2
																																									7
	% Trips at Intersection	0%	5%	2%	2%	0%	0%	0%	0%	0%	0%	1%	1% 09	6 5%	1%	3%	1%	0%	5%	4%	0%	0% 4%	4%	9%	5%	1%	2%	0%	0%	5%	20%	0%	0%	0%	0%	6%	2%	4%	0%	09	<u>//</u>
	Cost per Development	0 \$0	\$44,780	87 \$20 154	87 \$38,139	0 \$0	0 \$0	<u> </u>	<u> </u>	0 \$0	\$2,774	101 \$18,591	101 ( \$49.725 \$	160 ) \$475,548	\$3,614	\$60,714	15 \$1,792	\$	106 \$30,904	101 \$25.938	0 \$0	0 133 \$0 \$11.91	133 5 \$0	\$226,842	247 \$417,234	53 \$404,499	148 \$724,004	0 \$0	<u> </u>	160 \$74,250	486 \$341 220	0 \$0	0 \$0	0 \$0	<u> </u>	<u> </u>	<u> </u>	101 \$0	<u> </u>	\$	0
		Ψ0	φ++,100	φ20,104	<b>400</b> ,100	ψŪ	ţ,	ψΰ	ψŪ	ψΰ	Ψ2,114	φ10,001	ψ10,720 Φ	φ+10,040	ψ0,014	ψ00,114	ψ1,70 <u>2</u>	φση	400,004	\$20,000	<b>\$</b> 0	φ0 φ11,01	ψŪ	φ220,042	φ417,204	<b>\$101,100</b>	\$124,004	ΨŪ	ψŪ	ψ/ <del>4</del> ,200	φ0+1,220	ψũ	ψŪ	ψŪ	<b>\$</b>	<b>*</b> °	<b>4</b> 0	ψΰ	<b>*</b> *	<b></b> `	7
	% Trips at Intersection	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0% 0%	6 0%	0%	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	0%	19%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0	%
	Trips	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	741	360	0	0	0	0	0	0	0	0	0	0	0	0	0	7
	Cost per Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	) \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$5,655,348	\$1,761,092	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$	<u>-</u>
	% Trips at Intersection	0%	2%	0%	0%	97%	82%	85%	75%	58%	22%	19%	19% 09	6 2%	0%	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	0%	0%	0%	2%	0%	2%	0%	100%	100%	50%	46%	10%	51%	0%	33%	99	%
	Trips	0	84	0	0	490	525	490	525	1015	1581	1580	1580 0	84	0	0	0	0	0	0	0	0 0	0	0	0	0	0	84	0	84	0	1	2280	1	1987	126	1906	0	1006	35	6
	Cost per Development	\$0	\$15,229	\$0	\$0	\$497,325	\$621,368	\$1,070,850	\$12,282,251	\$684,156	\$141,465	\$290,833	\$777,882 \$	) \$249,662	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$2,232	\$0	\$38,981	\$0	\$549,600	\$12,900,000	\$1,250,000	\$0	\$0	\$0	\$0	\$0	\$	0
n	% Trips at Intersection	0%	179/	16%	1.49/	0%	0%	0%	0%	0%	1.49/	129/	129/ 26	2/ 129/	20%	219/	10%	229/	40%	249/	10%	00% 45%	279/	26%	229/	170/	299/	69/	119/	129/	61%	0%	0%	0%	0%	0%	29/	249/	0%		7
·	Trips	0	819	586	586	0/0	0	0	0	0	991	1109	1109 42	4 466	579	1726	271	317	855	903	49	205 1519	1138	1455	1049	668	1727	216	233	466	1463	0	0	0	0	116	116	816	0	21	6
	Cost per Development	\$0	\$148,482	\$135,748	\$256,891	\$0	\$0	\$0	\$0	\$0	\$88,673	\$204,135	\$545,994 \$567	825 \$1,385,03	\$139,482	\$708,058	\$32,379	\$51,807	\$249,269	\$231,899	\$165,586 \$3	94,051 \$136,08	5 \$0	\$864,017	\$1,771,979	\$5,098,208	\$8,448,348	\$5,740	\$3,001,297	\$216,252	\$1,027,171	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$	0
		201	070(	0.10/	2021	201	224	450/	100/	070/	070/	0001	000/ 11	× 0.10/		450/	7.40/	700/	400/	5.404	700/	001 0001	100/	000/	450/	2021	070/	400/	700/	0.19/	100/	001	201	001	400%			570/	40%		-
	% Trips at Intersection	0%	37%	34% 1236	29% 1236	0%	0%	15%	13%	37%	37%	39%	39% 41	% <u>34%</u> 2 1189	1201	45% 2469	74% 1055	1029	49%	54% 1453	70%	0 36%	40%	39%	45%	20%	37%	46%	1711	34%	10%	0%	0%	0%	13%	20%	23%	57%	<u> </u>	41	3
	Cost per Development	\$0	\$328,692	\$286,322		\$0	\$0	\$187,945	\$2,152,318	\$438,803	\$241,949	\$592,894	\$1,585,796 \$913	,341 \$3,533,91	\$311,004	\$1,012,859	\$126,051	\$168,168	\$301,747	\$373,143 \$	\$1,169,243	\$0 \$109,4	7 \$0	\$939,433	\$3,474,700	\$5,960,630	\$11,031,283	\$44,032	\$22,039,568	\$539,238	\$162,185	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		50
																																									7
	% Trips at Intersection	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0% 0%	6 0%	0%	0%	0%	0%	0%	0%	0%	0% 0%	0%	0%	0%	29%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	6
	Trips Cost per Development	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0	0	0	1145 \$8 738 696	\$30 \$2,502,718	0	0	0	0	0	0	0	0	0	0	0	0	0	7
		φυ	ΨŪ	ΨU	ψU	φU	ΨU	ΨU	ΨΟ	ΨŪ	ψŪ	ΨΟ	φ0 φ <sup>1</sup>	<b>υ</b> ψυ	<b>Φ</b> 0	ΨŪ	φU	ψU	ψU	φU	ψU	40 40	<b>4</b> 0	ψU	ψU	40,730,090	ψz,39z,710	φυ	ψU	ΨΟ	ΨU	ΨU	ΨŪ	ψU		<b>40</b>		ψU	<b>\$</b> 0	ų į	7
	% Trips at Intersection	0%	5%	2%	1%	0%	0%	0%	0%	0%	0%	1%	1% 21	% 11%	0%	0%	0%	0%	1%	2%	1%	0% 0%	0%	3%	9%	0%	0%	0%	9%	11%	6%	0%	0%	0%	0%	4%	1%	1%	0%	0%	6
	Trips	0	246	58	58	0	0	0	0	0	0	48	48 33	8 376	0	0	0	0	24	48	4	0 0	0	120	434	0	0	0	188	376	144	0	0	0	0	48	48	24	0	0	7
	Cost per Development	\$0	\$44,599	\$13,436	\$25,426	\$0	\$0	\$0	\$0	\$0	\$0	\$8,835	\$23,632 \$452	,653 \$1,117,53	\$0	\$0	\$0	\$0	\$6,997	\$12,327	\$13,517	\$0 \$0	\$0	\$71,259	\$733,116	\$0	\$0	\$0	\$2,421,647	\$174,487	\$101,102	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	7
																																									Ţ
	% Trips	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100% 100	<u>% 100%</u>	100%	100%	100%	100%	100%	100%	100%	00% 100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100	0%
OTAL	Trips Cost per Development	575 \$3,779,513	4860 \$881,104	3661 \$848,078	4245 \$1,860,924	505	642 \$759,845	576 \$1,258,795	<u>699</u> \$16,352,940	1748 \$1,178,231	/221	8281	8281 16 \$4,076,987 \$2,20		1968	5491	1424	1434	2119	2690 \$690,816 \$	496	205 3352	3065	4098	4599	3908 \$29,826,046	6097	3613 \$96,009	2194 \$28,261,141	3467 \$1,608,896	2389	1 \$549,600	2280 \$12.900.000	2	4344	1262	3/02	2424	3023	4187	ł



## ent Breakdown

TOTAL
\$170.400.474
\$170,439,471
12%
14968
\$20,429,651
11%
13775
\$7,064,048
1%
1468
\$191,083
3%
3320
\$2,973,453
1%
1101
\$7,416,440
400/
13%
15785
\$31,371,834
19%
23473
\$25,874,408
\$20,01 4,400
37%
45267
\$58,566,569
1%
1675
\$11,331,414
011
2%
2630
\$5,220,570
100%
100% 123462
\$170,439,471
ψ110,433,411

1/25/2007

2030 Saturday Peak Hour Full	Build Scenario - Indivic	ual Site Breakdown																											Sa	turday Individual Si	ite Breakdown
	Intersection Location	New NB TH 77 Access to Existing MOA (Roundabout)	rive / Killebrew Drive / Killebrew Drive / 22nd Avenue / 20th	rew Drive / 2012 Interim Access 7 Ramps / from CD Roadway/T 1 Avenue 77 to Thunderbird R	2012 Interim Access from Thunderbird Rd to Eastbound I-494 CD Road	Formanent Access from CD Roadway/TH 77 to Thunderbird Rd	ermanent Access and CD Roadway from Thunderbir Thunderbird Rd to Roundal East of 34th Ave	Singlo-	oint Boulevard / 24th Boul	merican evard / 24th nue (East) 28th Avenue 82nd Street		American Blvd One- way Conversion (30th to 34th)	American Boulevard / 34th Avenue Drive	Motro Drivo	American American Ilevard / 30th Boulevard / 28 Avenue Avenue	3th 28th Avenue		ld Shakopee Old Shakope / 33rd Avenue Rd / 31st Aver	RC Rd / 30th Avenue RC	d Shakopee 34th Avenue / oad / 28th 494 North Avenue Ramps	/ I- 34th Avenue / I- 494 South Ramps 24th Ave 82nd St		Old Shakopee Road / 86th Street	enue Wayfinding Signs	Lindau Lane Improvements (Lowering / TH 77 Ramps / IKEA Way)	Intelligent Transportation Systems (ITS) Improvements	dau Lane / TH American Ramps / IKEA Boulevard / Way IKEA Driveway	American American Boulevard / Boulevard / Boulevard / Boul , Thunderbird Metro Road (W	vrican evard / Lindau Lane / Lind o Drive 22nd Avenue 24th est)	au Lane / 34th Avenue / Avenue Square	TOTAL
	Improvement #	1, 6, 7 2	3	4 8	9	10A	10B 10C	C 11	12A	12B 13	14	15	16 17	18	19 20	20A	21	22 23	24	25 26	26 27	28A	28B 29	30		-					
Development	Improvement Costs	\$3,779,513 \$881,10	4 \$848,078 \$1,4	,860,924 \$512,549	\$759,845	\$1,258,795	\$16,352,940 \$1,178,	3,231 \$646,1	21 \$1,524,296 \$4	,076,987 \$2,207,017	\$10,295,604	\$474,094	\$2,252,575 \$170,138	\$234,356	\$617,779 \$690,816	\$1,676,140	\$394,051	\$300,300 \$0	\$2,433,499 \$7	7,768,665 \$29,826,046	6 \$29,826,046 \$96,0	09 \$28,261,141	\$1,608,896 \$1,677,	,315 \$549,600	\$12,900,000	\$2,500,000	\$0 \$0	\$0	\$0         \$0	\$0 \$0	\$170,439,471
Existing	% Trips at Intersection	100% 56%		82% 8%	8%	5%	4% 3%	% 42%	41%	41% 18%	43%	21%	28% 13%	18%	15% 23%	30%	0%	27% 34%	31%	31% 49%	35% 59%	6 3%	44% 4%	0%	0%	50%	53% 64%	19% 1	7% 59%	61% 33%	42%
	Trips Cost per Development	750 1590 \$3,779,513 \$491,04	2010	3362         44           527,448         \$41,079	39 \$58,914	29 \$56,861	24 53 \$665,204 \$34,88	3 2600 886 \$269,4	2770 33 \$629,067 \$1	2770 141 ,682,547 \$388,987	694 \$4,446,266	201 \$101,809	717 103 \$639,136 \$22,438	100 \$43,319	110         205           \$94,910         \$160,382	85 \$494,694	0 \$0	383 383 \$80,996 \$0	397 \$757,131 \$2	411 1244 2,397,088 \$14,671,254	1062 1953 4 \$10,558,420 \$56,75	3 12 51 \$971,730	680 21 \$703,117 \$63,9	0 27 \$0	0 \$0	1 \$1,250,000	3046 565 \$0 \$0	\$0	19         2268           \$0         \$0	2687         403           \$0         \$0	35262 \$47,794,838
1 BCS - Northwest Office - (472D)	% Trips at Intersection	0% 1%	0%	0% 0%	0%	0%	0% 0%	6 0%	0%	0% 0%	1%	3%	1% 2%	3%	4% 3%	0%	0%	1% 1%	3%	2% 1%	1% 0%	1%	1% 9%	0%	0%	0%	0% 0%	0% 4	% 0%	0% 1%	1%
	Trips Cost per Development	0 16 \$0 \$4,941	11 \$2,871 \$	11 0 \$4,998 \$0	0 \$0	0 \$0	0 0 \$0 \$0	28 ) \$2,90	30 2 \$6,813	30 0 \$18,223 \$0	10 \$64,067	28 \$14,182	26 14 \$23,176 \$3,050	14 \$6,065	30         30           \$25,885         \$23,471	0 \$0	0 \$0	12 12 \$2,538 \$0	32 \$61,028 \$	21 14 \$122,479 \$165,111	27 0 \$268,434 \$0	5 \$404,887	10 48 \$10,340 \$146,1	0 118 \$0	0 \$0	0 \$0	0 2 \$0 \$0	\$0	30 0 \$0 \$0	0 12 \$0 \$0	505 \$1,381,578
2 BCS - SW Office - (472D)	% Trips at Intersection	0% 1%	1%	1% 0%	0%	0%	0% 0%	6 1%	1%	1% 4%	1%	0%	2% 0%	0%	4% 3%	0%	0%	4% 4%	5%	3% 1%	2% 1%	3%	1% 18%	6 0%	0%	0%	0% 0%	0%	% 0%	1% 4%	1%
	Trips Cost per Development	0 32 \$0 \$9,883	23 \$6,004 \$1	23 0 10,450 \$0	0 \$0	0 \$0	0 0 \$0 \$0	55 ) \$5,70	58 0 \$13,172	58         30           635,230         \$82,763	18 \$115,321	0 \$0	52 0 \$46,353 \$0	0 \$0	28         28           \$24,159         \$21,906	0 \$0	0 \$0	52 51 \$10,997 \$0	69 \$131,592 \$	41 27 \$239,126 \$318,428	51 30 \$507,043 \$872	9 2 \$728,797	18 97 \$18,612 \$295,2	0 281 \$0	0 \$0	0 \$0	0 4 \$0 \$0	\$0	28 0 50 \$0	30         52           \$0         \$0	968 \$2,621,686
3 BCS - Central Park - (472D)	% Trips at Intersection	0% 2%	1%	1% 0%	0%	0%	0% 0%	6 1%	1%	1% 0%	1%	8%	3% 6%	6%	10% 8%	0%	0%	3% 5%	4%	4% 2%	3% 0%	3%	2% 6%	0%	0%	0%	0% 1%	0% 1	0%	0% 3%	1%
	Trips Cost per Development	0 44 \$0 \$13,589	32 \$8,353 \$7	32         0           14,538         \$0	0 \$0	0 \$0	0 0 \$0 \$0	64 ) \$6,63	69 2 \$15,670	69 0 \$41,912 \$0	24 \$153,761	76 \$38,495	84 43 \$74,878 \$9,367	34 \$14,728	69         69           \$59,535         \$53,982	0 \$0	0 \$0	42 57 \$8,882 \$0	57 \$108,706 \$	56         42           \$326,611         \$495,332	84 0 \$835,129 \$0	12 \$971,730	24 35 \$24,816 \$106,5	0 545 \$0	0 \$0	0 \$0	0 6 \$0 \$0	6 \$0	69 0 60 \$0	0 42 \$0 \$0	1241 \$3,383,191
4 BCS - Hotel - (472D)	% Trips at Intersection	0% 1%	1%	1% 0%	0%	0%	0% 0%	% 1%	1%	1% 0%	1%	10%	4% 12%	5%	6% 5%	0%	0%	6% 5%	4%	4% 2%	3% 0%	3%	2% 3%	0%	0%	0%	0% 1%	0%	0%	0% 3%	1%
	Trips Cost per Development	0 41 \$0 \$12,662	29 \$7,570 \$1	29 0 13,175 \$0	0 \$0	0 \$0	0 0 \$0 \$0	35 ) \$3,62	40 7 \$9,084	40 0 \$24,297 \$0	24 \$153,761	93 \$47,106	99 93 \$88,249 \$20,260	26 \$11,263	40 40 \$34,513 \$31,294	0 \$0	0 \$0	84 52 \$17,764 \$0	52 \$99,171 \$	52         41           \$303,281         \$483,538	98 0 \$974,317 \$0	12 \$971,730	24 14 \$24,816 \$42,6	0 18 \$0	0 \$0	0 \$0	0 5 \$0 \$0	5 \$0	40 0 50 \$0	0 32 \$0 \$0	1140 \$3,374,096
6 BCS - NE Housing - (472D)	% Trips at Intersection	0% 4%	2%	2% 0%	0%	0%	0% 0%	6 0%	0%	0% 0%	4%	5%	15% 7%	1%	2% 2%	0%	100%	21% 13%	11%	11% 7%	13% 0%	9%	4% 2%	0%	0%	0%	0% 2%	0% 2	% 0% C	0% 13%	3%
	Trips Cost per Development	0 112 \$0 \$34,589	80 \$20,882 \$3	80 0 36,346 \$0	0 \$0	0 \$0	0 0 \$0 \$0	0 0 \$0	16 \$3,634	16         0           \$9,719         \$0	64 \$410,030	51 \$25,832	375 51 \$334,276 \$11,110	7 \$3,032	16         16           \$13,805         \$12,518	0 \$0	46 \$394,051	298         144           \$63,021         \$0	144 \$274,627 \$	144         183           \$839,856         \$2,158,231	375 0 \$3,728,256 \$0	32 \$2,591,279	64 9 \$66,176 \$27,3	0 97 \$0	0 \$0	0 \$0	0 16 \$0 \$0	16 \$0	16 0 \$0 \$0	0 154 \$0 \$0	2525 \$11,058,667
7 BCS - SE Housing - (472D)	% Trips at Intersection	0% 1%	1%	0% 0%	0%	0%	0% 0%	% 0%	0%	0% 0%	1%	0%	4% 0%	0%	1% 0%	0%	0%	9% 3%	3%	3% 2%	3% 0%	2%	1% 0%	0%	0%	0%	0% 0%	0%	0%	0% 8%	1%
	Trips Cost per Development	0 28 \$0 \$8,647	20 \$5,221 \$	20 0 \$9,087 \$0	0 \$0	0 \$0	0 0 \$0 \$0	0 ) \$0	4 \$908	4 0 \$2,430 \$0	16 \$102,508	2 \$1,013	95 2 \$84,683 \$436	2 \$866	4 4 \$3,451 \$3,129	0 \$0	0 \$0	132 37 \$27,915 \$0	37 \$70,564 \$	36 47 \$209,964 \$554,300	96 0 \$954,433 \$0	8 \$647,820	16 2 \$16,544 \$6,08	0 38 \$0	0 \$0	0 \$0	0 4 \$0 \$0	4 \$0	4 0 60 \$0	0 95 \$0 \$0	719 \$2,710,007
8 BCS - Health Partners Expansion - (472D)	% Trips at Intersection	0% 0%	0%	0% 0%	0%	0%	0% 0%	6 0%	0%	0% 0%	0%	0%	1% 0%	0%	0% 0%	0%	0%	2% 2%	1%	1% 1%	1% 0%	1%	0% 0%	0%	0%	0%	0% 0%	0%	% 0%	0% 3%	0%
	Trips Cost per Development	0 10 \$0 \$3,088	7 \$1,827	7 0 \$3,180 \$0	0 \$0	0 \$0	0 0 \$0 \$0	0 0 \$0	2 \$454	2 0 \$1,215 \$0	6 \$38,440	1 \$507	33 0 \$29,416 \$0	1 \$433	2 2 \$1,726 \$1,565	0 \$0	0 \$0	34 24 \$7,190 \$0	13 \$24,793	13         17           \$75,820         \$200,491	34 0 \$338,029 \$0	3 \$242,932	6 1 \$6,204 \$3,04	0 44 \$0	0 \$0	0 \$0	0 2 \$0 \$0	2 \$0	2 0 \$0 \$0	0 33 \$0 \$0	257 \$980,355
9 Park and Ride - (472E)	% Trips at Intersection	0% 2%	0%	0% 0%	0%	0%	0% 0%	% 0%	0%	0% 9%	5%	0%	0% 0%	0%	1% 1%	1%	0%	0% 0%	2%	7% 0%	0% 0%	12%	5% 6%	0%	0%	0%	0% 1%	0%	0%	0% 0%	1%
	Trips Cost per Development	0 54 \$0 \$16,677	13 \$3,393 \$	13 0 \$5,906 \$0	0 \$0	0 \$0	0 0 \$0 \$0	0 ) \$0	11 \$2,498	11 73 \$6,682 \$201,390	82 \$525,351	0 \$0	0 0 \$0 \$0	0 \$0	5 10 \$4,314 \$7,824	2 \$11,640	0 \$0	0 0 \$0 \$0	26 \$49,585 \$	95 0 \$554,071 \$0	0 0 \$0 \$0	41 \$3,320,077	82 31 \$84,788 \$94,3	0 68 \$0	0 \$0	0 \$0	0 11 \$0 \$0	11 \$0	5 0 60 \$0	0 0 \$0 \$0	576 \$4,888,565
10 BCS - Retail/Grocery - (472E)	% Trips at Intersection	0% 3%	2%	1% 0%	0%	0%	0% 0%	% 2%	2%	2% 34%	3%	3%	5% 3%	5%	4% 11%	16%	0%	6% 8%	7%	8% 2%	4% 2%	7%	3% 20%	6 0%	0%	0%	0% 1%	0%	% 0%	2% 8%	3%
	Trips Cost per Development	0 81 \$0 \$25,016	58 \$15,140 \$2	58         0           26,351         \$0	0 \$0	0 \$0	0 0 \$0 \$0	154 ) \$15,9	165 59 \$37,472 \$	165         274           100,224         \$755,903	46 \$294,709	26 \$13,169	117 26 \$104,294 \$5,664	26 \$11,263	31 99 \$26,747 \$77,453	47 \$273,537	0 \$0	91 91 \$19,245 \$0	91 \$173,549 \$	104         51           \$606,562         \$601,474	<u>116</u> 77 \$1,153,274 \$2,23	23 37 \$1,862,482	46 112 \$47,564 \$340,9	2 0 942 \$0	0 \$0	0 \$0	0 11 \$0 \$0	11 \$0	16 0 \$0 \$0	77         91           \$0         \$0	2381 \$6,590,230
11 BCS - West Office - (472D)	% Trips at Intersection	0% 1%	1%	1% 0%	0%	0%	0% 0%	6 1%	1%	1% 0%	1%	3%	2% 4%	6%	11% 7%	0%	0%	2% 2%	6%	3% 1%	2% 0%	3%	1% 27%	6 0%	0%	0%	0% 1%	0%	% 0%	0% 2%	1%
	Trips Cost per Development	0 35 \$0 \$10,809	25 \$6,526 \$1	25 0 11,358 \$0	0 \$0	0 \$0	0 0 \$0 \$0	57 D \$5,90	62 7 \$14,080	62 0 637,660 \$0	20 \$128,134	29 \$14,689	56 29 \$49,919 \$6,318	30 \$12,996	78         61           \$67,300         \$47,723	0 \$0	0 \$0	27 27 \$5,710 \$0		44         29           \$256,623         \$342,015	56 0 \$556,753 \$0	10 \$809,775	20 149 \$20,680 \$453,5	9 0 575 \$0	0 \$0	0 \$0	0 5 \$0 \$0	5 \$0	61 0 60 \$0	0 27 \$0 \$0	1100 \$2,993,955
12 AUAR - (472C)	% Trips at Intersection	0% 1%			0%	0%			2%			28%	6% 33%										1% 4%			0%			6% 0%		2%
	Cost per Development	0 22 \$0 \$6,794	-	13 0 \$5,906 \$0	0 \$0	0 \$0	0 0		102 7 \$23,164		18 \$115,321	258 \$130,680	147         257           \$131,036         \$55,987				-				125 0 \$1,242,752 \$0		18         24           \$18,612         \$73,0		•	0 \$0	16         8           \$0         \$0		15 16 \$0 \$0	16         42           \$0         \$0	2005 \$3,686,607
14 AUAR - (471B)	% Trips at Intersection			0% 0%		0%			0%				0% 0%	1													0% 0%	0% (	% 0%	0% 0%	0%
	l rips Cost per Development			5 0 \$2,272 \$0		0 \$0	0 0 \$0 \$0		2 \$454	÷			6 0 \$5,348 \$0										14 0 \$14,476 \$0			0 \$0			0 0 60 \$0		126 \$1,880,155
15 AUAR - Kelly Farms - (471C)	% Trips at Intersection	0% 1%				270			0%				1% 0%																% 0%		1%
	l rips Cost per Development	0 41 \$0 \$12,662		30         0           13,630         \$0		0 \$0			11 \$2,498		26 \$166,575		28 0 \$24,959 \$0										26 0 \$26,884 \$0			0 \$0			0 0 60 \$0		557 \$8,872,659
16 AUAR - (471D)	% Trips at Intersection					0%			0%				0% 0%														0% 0%	0% (		0% 1%	0%
	Trips Cost per Development		15 \$3,915 \$	15         0           \$6,815         \$0	0 \$0	0 \$0	0 0 \$0 \$0		4 \$908			0 \$0	10 0 \$8,914 \$0	0 \$0	2 2 \$1,726 \$1,565	0 \$0	0 \$0	10 10 \$2,115 \$0	33 \$62,935 \$	21 5 \$122,479 \$58,968	10 2 \$99,420 \$58	2 3 \$161,955	4 2 \$4,136 \$6,08		0 \$0	0 \$0	0 1 \$0 \$0	1 \$0	2 0 60 \$0	2 10 \$0 \$0	194 \$576,337
17 AUAR - (471E)	% Trips at Intersection	0% 0%			0%	0%	0% 0%			0% 0%	1%	1%	6% 1%										1% 0%		0%	0%			% 0%		1%
	Trips Cost per Development	0 4 \$0 \$1,235	0 \$0	0 0 \$0 \$0	0 \$0	0 \$0	0 0 \$0 \$0		8 \$1,817	8 1 \$4,859 \$2,759	20 \$128,134	6 \$3,039	140 6 \$124,796 \$1,307	6 \$2,599	7 8 \$6,040 \$6,259	1 \$5,820		18         18           \$3,807         \$0			<u>116</u> 4 \$1,153,274 \$116		20 1 \$20,680 \$3,04	0 44 \$0	0 \$0	0 \$0	0 4 \$0 \$0	4 \$0	7 0 \$0 \$0	4 18 \$0 \$0	
18 AUAR - (471F)	% Trips at Intersection	0% 0%			0%	0%	0% 0%		0%	0% 0%	2%	1%	11% 2%			1%	0%	2% 3%	3%				3% 1%			0%			% 0%		
	Trips Cost per Development	0 8 \$0 \$2,471	0 \$0	0 0 \$0 \$0	0 \$0	0 \$0	0 0 \$0 \$0	0 ) \$0	16 \$3,634	16 2 \$9,719 \$5,518	39 \$249,862	12 \$6,078	271 12 \$241,570 \$2,614	12 \$5,198	14 16 \$12,079 \$12,518	2 \$11,640	0 \$0	35 35 \$7,402 \$0	35 \$66,750 \$	<u>33</u> 111 \$192,467 \$1,309,091	223 8 \$2,217,069 \$232	31 2 \$2,510,302	39 3 \$40,326 \$9,13	0 32 \$0	0 \$0	0 \$0	0 8 \$0 \$0	8 \$0	14 0 50 \$0		1046 \$6,915,672
19 AUAR - (472A and 472B)	% Trips at Intersection	0% 0%		0% 0%	0%	0%	0% 0%	6 0%	0%	0% 1%	0%	2%	0% 1%	3%	1% 4%	1%	0%	0% 0%	0%	1% 0%	0% 0%	1%	0% 0%	0%	0%	0%			% 0%		0%
L	Trips	0 6	4	4 0	0	0	0 0	24	32	32 7	4	16	11 8	16	8 39	3	0	3 3	3	8 8	11 0	2	4 2	0	0	0	2 2	6	40 2	2 3	315

| provement #  | 1, 6, 7   | Killebrew Drive /<br>24th Avenue<br>2<br>\$881,104<br>13%<br>357<br>\$110,254<br>42%<br>1188<br>\$366,895<br>2%<br>45<br>\$13,898<br>0%<br>0%<br>0            | Killebrew Drive /<br>22nd Avenue         TH '<br>20'           3         -           \$848,078         \$'           \$848,078         \$'           \$11%         -           357         \$'           \$93,187         -           66%         -           2158         -           \$563,297         \$'           0%         -           0%         -           0%         -           0%         -           0%         -           0%         -           0%         -           0%         -           0%         - | 860,924         \$512,549           5%         8%           218         44           99,043         \$41,079  | /TH<br>I Rd from Thunderbird R<br>to Eastbound I-494 (<br>Road<br>9   | Stand         Permanent Access<br>from CD Roadway/TH<br>77 to Thunderbird Rd           10A         10A           \$1,258,795         -           5%         29           \$56,861         -           0%         0           0%         0           0%         0           0%         0           0%         0           0%         0   
   
   
  | 10B   | 10C   | Single-Point<br>Interchange         Bo<br>Av           11         -           \$646,121         -           7%         -           441         -           \$45,700         -           29%         -           1780         -   
   
   | American<br>pulevard / 24th<br>venue (West)         America<br>Boulevard<br>Avenue (E           12A         12B           12A         12B           \$1,524,296         \$4,076,9           4%         4%           289         289           \$65,632         \$175,54           30%         30%           2028         2028           \$460,559         \$1,231,8           7%         7%           453         \$453   
   | Zath Avenue /<br>82nd Street           13           987         \$2,207,017           18%           141           44         \$388,987           0%           0   | 14<br><b>\$10,295,604</b><br>19%<br>301<br>\$1,928,424<br>22%<br>351  | way Conversion (30th<br>to 34th)<br>15  | Boulevard / 34th<br>Avenue  | American<br>Boulevard /<br>International<br>Drive         America<br>Boulevar<br>(Metro Dri<br>(East)           17         18           \$170,138         \$234,356           13%         \$234,356           13%         18%           103         100           \$22,438         \$43,319           0%         0%           0         0   | Boulevard / 30<br>Avenue<br>19<br>56 \$617,779<br>15%   | 20  | 20A<br>\$1,676,140 \$3<br>30%<br>85   | Avenue<br>reway         Old Shakopee<br>Rd / 33rd Avenu           21         22           4,051         \$300,300           0%         27%           0         383           \$0         \$80,996   | 23  
   | 24<br>\$2,433,499 \$7,<br>31%   | 25 26   | 26  | 24th Avenue /<br>82nd Street                          | Avenue<br>28A   |   | 29 30   | Ramps / IKEA Way  | ) Improvements<br>-   |   | Driveway Ro   | ad (West)   
   | Lindau Lane /<br>22nd Avenue<br>\$0<br>3%<br>115<br>\$0<br>52%<br>2006  |   |
|--|---|---|---|---|---
--
--
--|---
---
--
--
--|---|---|---|---|---
---|---|---|---|---|---|---|---|---|---|---|---
---|---|---|---|---|---|---|---|
| ovement Costs  | \$3,779,513<br>0%<br>0<br>\$0<br>100%<br>750<br>\$3,779,513<br>0%<br>0%<br>0<br>\$0<br>0%<br>0<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0<br>0%<br>0<br>0%<br>0<br>0<br>0%<br>0<br>0<br>0%<br>0<br>0<br>0%<br>0<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0% | \$881,104<br>13%<br>357<br>\$110,254<br>42%<br>1188<br>\$366,895<br>2%<br>45<br>\$13,898<br>0%<br>0%<br>0   | \$848,078 \$<br>11% 357 \$93,187 66% 2158 \$563,297 \$<br>0% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 860,924         \$512,549           5%         8%           218         44           99,043         \$41,079           77%         0%           3144         0           ,428,405         \$0   | 9<br>\$759,845<br>8%<br>39<br>\$58,914<br>0%<br>0<br>\$0<br>0%<br>0<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%   | \$1,258,795<br>5%<br>29   
   
   
  | \$16,352,940<br>4%<br>24  | \$1,178,231<br>3%<br>53   | \$646,121<br>7%<br>441<br>\$45,700<br>29%<br>1780  
   
   | \$1,524,296 \$4,076,9<br>4% 4%<br>289 289<br>\$65,632 \$175,54<br>30% 30%<br>2028 2028  
   | 987 \$2,207,017<br>18%<br>141<br>44 \$388,987<br>0%<br>3 0  | \$10,295,604<br>19%<br>301<br>\$1,928,424<br>22%<br>351   | \$474,094<br>21%<br>201   | \$2,252,575<br>28%<br>717   | \$170,138 \$234,350<br>13% 18%  | 56 \$617,779<br>15%   |   | \$1,676,140 \$3<br>30%<br>85  | <b>4,051 \$300,300</b><br>0% 27%<br>0 383   |   
   | 31%   | 31% 16%   | <b>5 \$29,826,046</b>   |   | -   |   |   |   | -<br>\$2,500,000<br>50%<br>1<br>\$1,250,000   | \$0<br>2%<br>115<br>\$0   | \$0 \$<br>11% 3<br>99 \$<br>\$0 \$<br>16% 4   | 0 \$0<br>% 17%<br>9 119<br>0 \$0<br>%<br>0 \$0<br>%   
   | \$0<br>3%<br>115<br>\$0<br>52%<br>2006  | \$0<br>5%<br>221<br>\$0<br>52%<br>2319  |
| Intersection  Vevelopment  Intersection  Intersection  Vevelopment  Intersection  Vevelopment  Development  Development  Development   | 0%<br>0<br>\$0<br>100%<br>750<br>\$3,779,513<br>0%<br>0<br>\$0<br>\$0<br>0%<br>0<br>0%<br>0   | 13%           357           \$110,254           42%           1188           \$366,895           2%           45           \$13,898           0%           0% | 11%           357           \$93,187           66%           2158           \$563,297           0%           0           \$0           00           00           00           00           00           00           00           00           00           00           00           00           00           00%   | 5%         8%           218         44           99,043         \$41,079           77%         0%           3144         0           ,428,405         \$0   | \$759,845<br>8%<br>39<br>\$58,914<br>0%<br>0<br>\$0<br>0%<br>0<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%  | 5%<br>29  
   
   
  | 4%<br>24  | <u>3%</u><br>53   | 7%<br>441<br>\$45,700<br>29%<br>1780   
   
   | 4%         4%           289         289           \$65,632         \$175,54           30%         30%           2028         2028   
   | 18%           141           44         \$388,987           0%           0%           0  | 19%<br>301<br>\$1,928,424<br>22%<br>351   | 21%<br>201  | 28%<br>717  | 13% 18%   | 15%   | \$690,816<br>23%<br>205<br>\$160,382<br>0%  | 30%<br>85   | 0% 27%<br>0 383   | \$0<br>34%<br>383<br>\$0  
   | 31%   | 31% 16%   | 21%   | \$96,009<br>5%<br>170<br>\$4,940                      | \$28,261,141<br>3%<br>12<br>\$971,730   | \$1,608,896 \$<br>19%<br>299<br>\$309,164   | 1,677,315         \$549,1           4%         0%           21         0           \$63,927         \$0   | 600 \$12,900,000<br>5 0%<br>0 0<br>\$0<br>\$0   | \$2,500,000<br>50%<br>1<br>\$1,250,000  | \$0<br>2%<br>115<br>\$0   | \$0 \$<br>11% 3<br>99 \$<br>\$0 \$<br>16% _ 4   | 0 \$0<br>% 17%<br>9 119<br>0 \$0<br>%<br>0 %  
   | \$0<br>3%<br>115<br>\$0<br>52%<br>2006  | \$0<br>5%<br>221<br>\$0<br>52%<br>2319  |
| Intersection  Vevelopment  Intersection  Intersection  Vevelopment  Intersection  Vevelopment  Development  Development  Development   | 0%<br>0<br>\$0<br>100%<br>750<br>\$3,779,513<br>0%<br>0<br>\$0<br>\$0<br>0%<br>0<br>0%<br>0   | 13%           357           \$110,254           42%           1188           \$366,895           2%           45           \$13,898           0%           0% | 11%           357           \$93,187           66%           2158           \$563,297           0%           0           \$0           00           00           00           00           00           00           00           00           00           00           00           00           00           00%   | 5%         8%           218         44           99,043         \$41,079           77%         0%           3144         0           ,428,405         \$0   | \$759,845<br>8%<br>39<br>\$58,914<br>0%<br>0<br>\$0<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0  | 5%<br>29  
   
   
  | 4%<br>24  | <u>3%</u><br>53   | 7%<br>441<br>\$45,700<br>29%<br>1780   
   
   | 4%         4%           289         289           \$65,632         \$175,54           30%         30%           2028         2028   
   | 18%           141           44         \$388,987           0%           0%           0  | 19%<br>301<br>\$1,928,424<br>22%<br>351   | 21%<br>201  | 28%<br>717  | 13% 18%   | 15%   | \$690,816<br>23%<br>205<br>\$160,382<br>0%  | 30%<br>85   | 0% 27%<br>0 383   | \$0<br>34%<br>383<br>\$0  
   | 31%   | 31% 16%   | 21%   | \$96,009<br>5%<br>170<br>\$4,940                      | \$28,261,141<br>3%<br>12<br>\$971,730   | \$1,608,896 \$ 19% 299 \$309,164  | 1,677,315         \$549,0           4%         0%           21         0           \$63,927         \$0   | 600 \$12,900,000<br>0 0%<br>0 0<br>\$0  | \$2,500,000<br>50%<br>1<br>\$1,250,000  | \$0<br>2%<br>115<br>\$0   | \$0 \$<br>11% 3<br>99 \$<br>\$0 \$<br>16% _4  | 0         \$0           %         17%           9         119           0         \$0           %         0%           %         0%   
   | \$0<br>3%<br>115<br>\$0<br>52%<br>2006  | \$0<br>5%<br>221<br>\$0<br>52%<br>2319  |
| Intersection Inter | 100%<br>750<br>\$3,779,513<br>0%<br>0<br>\$0<br>50<br>0%<br>0%<br>0   | 42%<br>1188<br>\$366,895<br>2%<br>45<br>\$13,898<br>0%<br>0%  | 66%<br>2158<br>\$563,297 \$<br>0%<br>0<br>\$0<br>00%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 3144 0<br>,428,405 \$0  | 8%<br>39<br>\$58,914<br>0%<br>0<br>0%<br>0%<br>0%<br>0%<br>0%   | 5%<br>29<br>\$56,861<br>0%<br>0<br>\$0<br>0%<br>0%<br>0%<br>0%  
   
   
  | 4%<br>24<br>\$665,204<br>0%<br>0<br>\$0<br>\$0<br>0%<br>0<br>\$0<br>\$0   | 3%<br>53<br>\$34,886<br>0%<br>0<br>\$0<br>0%<br>0%<br>0<br>\$0  | 7%           441           \$45,700           29%           1780           \$184,458           6%           379           \$39,275   
   
   | 30%         30%           2028         2028   | 0%  | 22%<br>351  
   | 21%<br>201<br>\$101,809<br>0%<br>0<br>\$0   | 28%<br>717<br>\$639,136<br>0%<br>0<br>\$0   | 13%         18%           103         100           \$22,438         \$43,319           0%         0%           0%         0%           0         0   | 15%<br>110<br>9 \$94,910<br>0%  | 23%<br>205<br>\$160,382   | 30%<br>85<br>\$494,694  | 0% 27%<br>0 383<br>\$0 \$80,996   | 34%<br>383<br>\$0   | 31%<br>397<br>\$757,131 \$2,  | 31%         16%           411         412           397,088         \$4,858,968   | 21%<br>635<br>\$6,313,180   
   | 5%<br>170<br>\$4,940                                  | 3%<br>12<br>\$971,730   | 19%<br>299<br>\$309,164   | 4% 0%<br>21 0<br>\$63,927 \$0   | 0%<br>0<br>\$0  | 50%<br>1<br>\$1,250,000   | 2%<br>115<br>\$0  | 11% 3<br>99 5<br>\$0 \$<br>16% 4  | %         17%           9         119           0         \$0           %         0%           12         0   | 3%<br>115<br>\$0<br>52%<br>2006   | 5%<br>221<br>\$0<br>52%<br>2319   
   |
| Intersection Inter | 100%<br>750<br>\$3,779,513<br>0%<br>0<br>\$0<br>50<br>0%<br>0%<br>0   | 42%<br>1188<br>\$366,895<br>2%<br>45<br>\$13,898<br>0%<br>0%  | 66%<br>2158<br>\$563,297 \$<br>0%<br>0<br>\$0<br>00%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 3144 0<br>,428,405 \$0  | 0%<br>39<br>\$58,914<br>0%<br>0<br>\$0<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0   | 0%<br>29<br>\$56,861<br>0%<br>0<br>\$0<br>0%<br>0%<br>0%  
   
   
  | 24<br>\$665,204<br>0%<br>0<br>\$0<br>\$0<br>0%<br>0%<br>0<br>\$0  | 53<br>53<br>\$34,886<br>0%<br>0<br>\$0<br>\$0<br>0%<br>0<br>\$0   | 17.0           441           \$45,700           29%           1780           \$184,458           6%           379           \$39,275   
   
   | 30%         30%           2028         2028   | 0%  | 22%<br>351  
   | 2110<br>201<br>\$101,809<br>0%<br>0<br>\$0  | 20%           717           \$639,136           0%           0           \$0           \$0  | 10%         10%           103         100           \$22,438         \$43,319           0%         0%           0         0   | 9 \$94,910<br>0%  | 205<br>\$160,382  | 85<br>\$494,694   | 0 383<br>\$0 \$80,996   | 3478<br>383<br>\$0  | 397<br>\$757,131 \$2,   | 411         412           397,088         \$4,858,968   | 635<br>\$6,313,180  
   | 170<br>\$4,940  | 12<br>\$971,730   | 299<br>\$309,164  | 21 0<br>\$63,927 \$0  | 0   | 1<br>\$1,250,000  | 115<br>\$0  | 99 99 99 99 99 99 99 99 99 99 99 99 99  | 17 / 2           9         119           0         \$0           %         0%           1/2         0   | 52%<br>2006   | 221<br>\$0<br>52%<br>2319   
   |
| Intersection   | 100%<br>750<br>\$3,779,513<br>0%<br>0<br>\$0<br>50<br>0%<br>0%<br>0   | 42%<br>1188<br>\$366,895<br>2%<br>45<br>\$13,898<br>0%<br>0%  | 66%<br>2158<br>\$563,297 \$<br>0%<br>0<br>\$0<br>00%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 3144 0<br>,428,405 \$0  | \$58,914<br>0%<br>0<br>\$0<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%<br>0%  | \$56,861<br>0%<br>0<br>\$0<br>0%<br>0%<br>0<br>\$0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0<br>0<br>0%<br>0<br>0%<br>0<br>0%<br>0%   
   
   
  | \$665,204<br>0%<br>0<br>\$0<br>0%<br>0%<br>0<br>\$0<br>\$0<br>0%  | \$34,886<br>0%<br>0<br>\$0<br>0%<br>0%<br>0<br>\$0  | \$45,700<br>29%<br>1780<br>\$184,458<br>6%<br>379<br>\$39,275  
   
   | 30%         30%           2028         2028   
   | 0%  | 22%<br>351  | \$101,809<br>0%<br>0<br>\$0   | \$639,136<br>0%<br>0<br>\$0   | \$22,438 \$43,319<br>0% 0%<br>0 0   | 9 \$94,910<br>0%  | \$160,382   | \$494,694   | \$0 \$80,996  | \$0   
   | \$757,131 \$2,  | 397,088 \$4,858,968   | \$6,313,180   | \$4,940   | \$971,730   | \$309,164   | \$63,927 \$0  | \$0   | \$1,250,000   | \$0   | \$0 \$<br>16% 4   | 0 \$0<br>% 0%   
   | \$0<br>52%<br>2006  | \$0<br>52%<br>2319  |
| Pevelopment  | 750<br>\$3,779,513<br>0%<br>0<br>\$0<br>0<br>0%<br>0%<br>0  | 1188<br>\$366,895<br>2%<br>45<br>\$13,898<br>0%<br>0%   | 2158<br>\$563,297 \$<br>0%<br>0<br>\$0<br>\$0<br>0%<br>0%<br>0%   | 3144 0<br>,428,405 \$0  | 0%<br>0<br>\$0<br>0%<br>0%<br>\$0<br>0%<br>0%   | 0%<br>0<br>\$0<br>0%<br>0<br>\$0<br>\$0<br>\$0  
   
   
  | 0%<br>0<br>\$0<br>0%<br>0%<br>\$0   | 0%<br>0<br>\$0<br>0%<br>0<br>\$0  | 29%<br>1780<br>\$184,458<br>6%<br>379<br>\$39,275  
   
   | 30% 30%<br>2028 2028<br>\$460,559 \$1,231,8<br>7% 7%<br>453 453<br>\$102,876 \$275,46   
   | 0%<br>0<br>843 \$0<br>0%  | 22%<br>351<br>\$2,248,760   | 0%<br>0<br>\$0  | 0%<br>0<br>\$0  | 0% 0%<br>0 0  | 0%  | 0%  |   |   |   
   |   |   |   |   |   |   |   |   |   | 200/  | 16%4  | % 0%  
   | 52%   | 52%<br>2319   |
| Pevelopment  | 750<br>\$3,779,513<br>0%<br>0<br>\$0<br>0<br>0%<br>0%<br>0  | 1188<br>\$366,895<br>2%<br>45<br>\$13,898<br>0%<br>0%   | 2158<br>\$563,297 \$<br>0%<br>0<br>\$0<br>\$0<br>0%<br>0%<br>0%   | 3144 0<br>,428,405 \$0  | 0%<br>0<br>\$0<br>0%<br>0%<br>0<br>\$0<br>0%<br>0%  | 0%<br>0<br>\$0<br>0%<br>0<br>\$0<br>\$0   
   
   
  | 0%<br>0<br>\$0<br>0%<br>0<br>\$0<br>\$0   | 0%<br>0<br>\$0<br>0%<br>0<br>\$0  | 29%<br>1780<br>\$184,458<br>6%<br>379<br>\$39,275  
   
   | 30%         30%           2028         2028           \$460,559         \$1,231,8           7%         7%           7%         7%           453         453           \$102,876         \$275,44  
   | 0%<br>0<br>843 \$0<br>0%<br>0%  | 22%<br>351<br>\$2,248,760   | 0%<br>0<br>\$0  | 0%<br>0<br>\$0  | 0% 0%<br>0 0  | 0%  | 0%  |   |   |   
   |   |   |   |   |   |   |   |   |   | 200/  | 16% 4   | % 0%  
   | <u> </u>  | 52%<br>2319   |
| Intersection Development Intersection Development Development  | 0%<br>0<br>\$0<br>0%<br>0%<br>0   | 2%<br>45<br>\$13,898<br>0%<br>0   | 0%<br>0<br>\$0<br>0%<br>0%<br>0   | 3144         0           ,428,405         \$0           0%         0%           0         0           \$0         \$0           \$0         \$0           \$0%         0%           0%         0%           0%         0%           0%         0%           0%         0%           0%         0%           0         0           \$0         \$0                           | 0<br>\$0<br>0%<br>0%<br>\$0<br>0%<br>0%   | 0<br>\$0<br>0%<br>0<br>\$0<br>\$0   
   
   
  | 0<br>\$0<br>0%<br>0<br>\$0  | 0<br>\$0<br>0%<br>0<br>\$0  | 1780<br>\$184,458<br>6%<br>379<br>\$39,275   
   
   | 2028         2028           \$460,559         \$1,231,8           7%         7%           453         453           \$102,876         \$275,44  
   | 3 0<br>843 \$0<br>0%  | 351<br>\$2,248,760  | 0<br>\$0  | 0<br>\$0  | 0 0   | 0   |   | 0%  | 0%  | 0%  
   | 0%  | 0% 0%   | 0%  | 53%   | 0%  | 22%   | 0% 0%   | 0%  | 0%  | 38%   |   | 12 0  
   | 2006  | 2319  |
| Intersection Development Intersection Development Development  | 0%<br>0<br>\$0<br>0%<br>0%<br>0   | 2%<br>45<br>\$13,898<br>0%<br>0   | 0%<br>0<br>\$0<br>0%<br>0%<br>0   | .428,405         \$0           0%         0%           0         0           \$0         0           \$0         0           \$0         0           \$0%         0%           0%         0%           0%         0%           \$0%         0%           \$0%         0%           \$0         0           \$0         \$0  | \$0<br>0%<br>0<br>\$0<br>0%<br>0%   | \$0<br>0%<br>0<br>\$0<br>0%   
   
   
  | \$0<br>0%<br>0<br>\$0   | \$0<br>0%<br>0<br>\$0   | \$184,458<br>6%<br>379<br>\$39,275   
   
   | \$460,559 \$1,231,8<br>7% 7%<br>453 453<br>\$102,876 \$275,40   
   | 843 \$0<br>0%   | \$2,248,760   | \$0   | \$0   |   | 0   | 0   | 0   | 0 0   | 0   
   | 0   | 0 0   | 0   | 1738  | 0   | 341   | 0 0   | 0   | 0   | 2186  | 142 1   | 12 0  
   |   |   |
| Development  | 0%<br>0<br>\$0<br>0%<br>0<br>\$0<br>0%  | 2%<br>45<br>\$13,898<br>0%<br>0%  | 0<br>\$0<br>0%<br>0   | 0%         0%           0         0           \$0         \$0           \$0         \$0           0%         0%           0%         0%           0%         0%           \$0         \$0           \$0         \$0           \$0         \$0   | 0%<br>0<br>\$0<br>0%<br>0%  | 0%<br>0<br>\$0  
   
   
  | 0%<br>0<br>\$0  | 0%<br>0<br>\$0  | 6%<br>379<br>\$39,275  
   
   | 7% 7%<br>453 453<br>\$102,876 \$275.40  
   | 0%  | 3%  |   |   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   
   | \$0   | \$0 \$0   | \$0   | \$50,503  | \$0   | \$352,592   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
| Development  | 0%<br>0<br>\$0<br>0%<br>0<br>\$0  | 2%<br>45<br>\$13,898<br>0%<br>0%  | 0<br>\$0<br>0%<br>0   | 0%         0%           0         0           \$0         \$0           0%         0%           0%         0%           \$0         \$0           \$0         \$0   | 0%<br>0<br>\$0<br>0%<br>0%  | 0<br>0<br>\$0<br>0%   
   
   
  | 0   | 0<br>0<br>\$0   | 379<br>\$39,275  
   
   | 453 453<br>\$102,876 \$275.46   
   | 0%  |   | 0%  | 0%  | 0% 0%   | 0%  | 0%  | 0%  | 08/   | 0%/   
   | 08/   | 0% 0%   | 0%  | 19/   | 08/   | 29/   | 0% 0%   | 09/   | 0%  | 129/  | 269/ 11   | 9/ 09/  
   | 49/   | 20/   |
| Intersection   | \$0<br>0%<br>0<br>\$0<br>0%   | *5<br>\$13,898<br>0%<br>0<br>\$0<br>\$0   | \$0<br>0%<br>0<br>\$0   | SO         SO           0%         0%           0         0           \$0         \$0           \$0         \$0   | \$0<br>0%<br>0  | \$0<br>0%   
   
   
  | \$0   | \$0   | \$39,275   
   
   | \$102 876 \$275 46  
   | 0   | 42  | 0%  | 0   | 0 0%  | 0%  | 0%  | 0%  | 0 0   | 0%  
   | 0%  | 0 0%  | 0%  | 45  | 0   | 40  | 0 0%  | 076   | 0%  | 745   | 324 4   | 34 0  
   | 470   | 147   |
| Intersection   | 0%<br>0<br>\$0<br>0%  | 0%<br>0<br>\$0  | 0%<br>0<br>\$0  | 0% 0%<br>0 0<br>\$0 \$0   | 0%  | 0%  
   
   
  | 0%/   |   |  
   
   | ພາບ2.0/ບ ໓2/5.10  
   | 60 \$0  | \$269.082   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   
   | \$0   | \$0 \$0   | \$0   | \$1.308   | \$0   | \$41.360  | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
| Development  | 0%<br>0<br>\$0<br>0%  | 0%<br>0<br>\$0  | 0%<br>0<br>\$0  | 0% 0%<br>0 0<br>\$0 \$0   | 0%  | 0%  
   
   
  | 09/   |   |  
   
   |   
   |   |   |   |   |   |   |   |   |   | | |
   |   | ·· · ·  |   |   |   |   |   |   |   |   |   |   
   |   |   |
|  | 0<br>\$0<br>0%  | 0<br>\$0  | 0<br>\$0  | 0 0<br>\$0 \$0  | 0   |   
   
   
  | 0%  | 0%  | 0%   
   
   | 0% 0%   
   | 0%  | 0%  | 0%  | 0%  | 0% 0%   | 0%  | 0%  | 0%  | 0%  | 0%  
   | 0%  | 0% 0%   | 0%  | 0%  | 0%  | 0%  | 0% 0%   | 0%  | 0%  | 0%  | 0% 0  | % 0%  
   | 0%  | 0%  |
|  | \$0<br>   | \$0<br>   | \$0   | \$0 \$0   |   | 0   
   
   
  | 0   | 0   | 0  
   
   | 0 0   
   | 0   | 0   | 0   | 0   | 0 0   | 0   | 0   | 0   | 0 0   | 0   
   | 0   | 0 0   | 0   | 0   | 0   | 0   | 0 0   | 0   | 0   | 0   | 0   | ) 0   
   | 0   | 0   |
| Intersection   | 0%  | 0%  |   |   | \$0   | \$0   
   
   
  | \$0   | \$0   | \$0  
   
   | \$0 \$0   
   | \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   
   | \$0   | \$0 \$0   | \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
| Intersection   | 0%  | 0%  | 00/   | 001   | 001   | 201   
   
   
  | 00/   | 201   | 001  
   
   | 001 001   
   |   |   | 001   | 001   | 00/   |   | 00/   | 001   | 201   | 001   
   | 201   | 001   | 4.40/   | 001   | 201   | 201   |   |   | 001   | 201   |   |   
   |   |   |
| mordeouon  | 0   | 0   | 0%  | 0% 0%   | 0%  | 0%  
   
   
  | 0%  | 0%  | 0%   
   
   | 0% 0%   
   | 0%  | 0%  | 0%  | 0%  | 0% 0%   | 0%  | 0%  | 0%  | 0%  | 0%  
   | 0%  | 0% 33%  | 14%   | 0%  | 0%  | 0%  | 0% 0%   | . 0%  | 0%  | 0%  | 0% 0  | <u>% 0%</u>   
   | 0%  | 0%  |
| Development  | \$0   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   
   
   
  | \$0   | \$0   | \$0  
   
   | \$0 \$0   
   | \$0   | \$0   | \$0   | \$0   | 0<br>\$0<br>\$0   | \$0   | 0<br>\$0  | \$0   | 0 0<br>\$0 \$0  | \$0   
   | \$0   | \$0 \$9,812,285   | \$4.245.240   | \$0   | \$0   | \$0   | 0 0<br>\$0 \$0  | \$0   | \$0   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
| ovelopment   | ψũ  | ΨŬ  | ΨU  | φ0<br>φ0  | ψΰ  | ΨŬ  
   
   
  | ΨŬ  | ΨŬ  | ψΰ   
   
   | ψ <b>0</b> ψ0   
   | ψ0  | ψū  | ψũ  | ψü  | φ0 φ0   | ¢0  | ψŬ  | ψũ  | φ0 φ0   | ψŬ  
   | ΨŪ  | φ0,012,200  | ψ1,210,210  | ψũ  | ΨŬ  | ΨŬ  | ψ0 ψ0   | φ0  | ψŬ  | ΨŬ  | ψ <sup>©</sup>  | φ<br>Ψ  
   | <b>~</b>  | <b>~</b>  |
| Intersection   | 0%  | 3%  | 0%  | 0% 92%  | 92%   | 79%   
   
   
  | 79%   | 54%   | 30%  
   
   | 28% 28%   
   | 0%  | 6%  | 0%  | 0%  | 0% 0%   | 0%  | 0%  | 0%  | 0%  | 0%  
   | 0%  | 0% 0%   | 0%  | 3%  | 0%  | 6%  | 0% 100  | % 100%  | 50%   | 40%   | 17% 59  | % 0%  
   | 31%   | 9%  |
|  | 0   | 99  | 0   | 0 505   | 464   | 505   
   
   
  | 464   | 969   | 1860   
   
   | 1860 1860   
   | ) 0   | 99  | 0   | 0   | 0 0   | 0   | 0   | 0   | 0 0   | 0   
   | 0   | 0 0   | 0   | 99  | 0   | 99  | 0 1   | 2644  | 1   | 2299  | 148 22  | 84 0  
   | 1171  | 419   |
| Development  | \$0   | \$30,575  | \$0   | \$0 \$471,471   | \$700,930   | \$990,174   
   
   
  | \$12,860,617  | \$637,824   | \$192,748  
   
   | \$422,406 \$1,129,7   
   | 797 \$0   | \$634,266   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   
   | \$0   | \$0 \$0   | \$0   | \$2,877   | \$0   | \$102,365   | \$0 \$549,  | 600 \$12,900,000  | \$1,250,000   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
|  |   |   |   |   |   |   
   
   
  |   |   |  
   
   |   
   |   |   |   |   |   |   |   |   |   | | |
   |   |   |   |   |   |   |   |   |   |   |   |   
   |   |   |
| Intersection   | 0%  | 14%   | 9%  | 7% 0%   | 0%  | 0%  
   
   
  | 0%  | 0%  | 6%   
   
   | 7% 7%   
   | 38%   | 14%   | 33%   | 37%   | 33% 26%   | 42%   | 40%   | 16%   | 0% 54%  | 43%   
   | 44%   | 38% 18%   | 31%   | 3%  | 33%   | 15%   | 85% 0%  | 0%  | 0%  | 0%  | 6% 1  | % 38%   
   | 0%  | 2%  |
| Development  | 0   | 399   | \$74,393  | 285 0   | 0   | 0   
   
   
  | 0   | 0   | 393  
   
   | 446 446<br>\$101.007 \$270.00   
   | 304   | 228   | 306   | 937   | 258 140<br>\$56,205 \$60,647  | 298   | 349<br>¢070.044   | 4/<br>\$272.527   | 46 772  | 495   
   | 000   | 511 451   | 937   | 107   | 114<br>© 001 400  | 228<br>©005.754   | 467 0   | 0   | 0   | 0   | 55 5  | 5 266   
   | 0   | 107<br>\$0  |
| evelopment   | φU  | \$123,225   | \$74,393 3  | 129,483 \$0   | \$U   | φU  
   
   
  | φU  | фU  | \$40,726   
   
   | \$101,287 \$270,90  
   | 00 \$030,007  | \$1,400,733   | \$154,992   | \$630,244   | \$50,205  | φ257,120  | \$273,041   | φ213,531 φ3   | 4,051 \$163,262   | φU  
   | \$1,079,436 \$2,  | 900,321 \$5,316,918   | \$9,315,000   | \$3,109   | \$9,231,433   | \$235,751 t   | 1,421,606 \$0   | <u>۵</u> 0  | \$U   | φU  | \$U 3   | 0 \$0   
   | <u>۵</u> 0  | φU  |
| Intersection   | 0%  | 25%   | 13%   | 11% 0%  | 0%  | 17%   
   
   
  | 17%   | 43%   | 22%  
   
   | 24% 24%   
   | 35%   | 31%   | 46%   | 35%   | 54% 56%   | 42%   | 36%   | 53%   | )% 19%  | 23%   
   | 22%   | 24% 15%   | 26%   | 35%   | 52%   | 30%   | 6% 0%   | 0%  | 0%  | 7%  | 12% 20  | % 45%   
   | 10%   | 28%   |
|  | 0   | 711   | 436   | 436 0   | 0   | 108   
   
   
  | 102   | 768   | 1382   
   
   | 1625 1625   
   | 282   | 504   | 429   | 873   | 420 301   | 303   | 319   | 154   | 0 265   | 265   
   | 287   | 315 374   | 779   | 1145  | 182   | 467   | 32 0  | 0   | 0   | 387   | 109 7   | 75 315  
   | 387   | 1225  |
| Development  | \$0   | \$219,581   | \$113,808   | 198,087 \$0   | \$0   | \$211,760   
   
   
  | \$2,827,118   | \$505,520   | \$143,214  
   
   | \$369,038 \$987,05  
   | 54 \$777,974  | \$3,228,988   | \$217,293   | \$778,195   | \$91,496 \$130,39   | 90 \$261,434  | \$249,570   | \$896,269   | \$0 \$56,042  | \$0   
   |   | 337,184 \$4,410,811   |   | \$33,272  | \$14,737,902  | \$482,876   | \$97,412 \$0  | \$0   | \$0   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
|  |   |   |   |   |   |   
   
   
  |   |   |  
   
   |   
   |   |   |   |   |   |   |   |   |   | | |
   |   |   |   |   |   |   |   |   |   |   |   |   
   |   |   |
| Intersection   | 0%  | 0%  | 0%  | 0% 0%   | 0%  | 0%  
   
   
  | 0%  | 0%  | 0%   
   
   | 0% 0%   
   | 0%  | 0%  | 0%  | 0%  | 0% 0%   | 0%  | 0%  | 0%  | 0%  | 0%  
   | 0%  | 0% 18%  | 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   | 0 460   | 222   | 0   | 0   | 0   | 0 0   | 0   | 0   | 0   | 0   | 0   
   | 0   | 0   |
| Development  | \$0   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   
   
   
  | \$0   | \$0   | \$0  
   
   | \$0 \$0   
   | \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   
   | \$0   | \$0 \$5,425,062   | \$2,207,127   | \$0   | \$0   | \$0   | \$0 \$0   | \$0   | \$0   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
| Intersection   | 0%  | 29/   | 0%  | 0%  | 0%  | 0%  
   
   
  | 0%  | 0%  | 0%   
   
   | 0% 0%   
   | 0%  | 5%  | 0%  | 0%  | 0%  | 19/   | 1%  | 19/   | 0%  | 0%  
   | 2%  | 70/ 00/   | 0%  | 0%  | 12%   | 5%  | 6% 0%   | 0%  | 0%  | 0%  | 19/ 0   | 0/10/   
   | 0%  | 0%  |
| 111013001011   | 0   | 54  | 13  | 13 0  | 0%  | 0%  
   
   
  | 070   | 0%  | 0  
   
   | 11 11   
   | 73  | 82  | 0   | 0   | 0 0%  | 5   | 10  | 2   | 0 0   | 070   
   | 26  | 95 0%   | 0%  | 0   | 41  | 82  | 31 0%   | 0   | 0%  | 0   | 11 0  | 1 5   
   | 0   | 0   |
| Development  | \$0   | \$16.677  | \$3,393   | \$5.906 \$0   | \$0   | \$0   
   
   
  | \$0   | \$0   | \$0  
   
   | \$2,498 \$6,682   
   | 2 \$201.390   | \$525.351   | \$0   | \$0   | \$0 \$0   | \$4.314   | \$7.824   | \$11.640  | \$0 \$0   | \$0   
   | \$49.585 \$5  | 54.071 \$0  | \$0   | \$0   | \$3.320.077   | \$84.788  | \$94.368 \$0  | \$0   | \$0   | \$0   | \$0 5   | 0 \$0   
   | \$0   | \$0   |
|  | <b>T T</b>  | +·•,•··   |   | φ.  |   |   
   
   
  |   |   |  
   
   | , , ¢0,002  
   | <i>+</i> ,000   |   |   | · · ·   |   | ÷.,511  | +· , ·  |   |   | · · ·   
   | ,,  | φ <b>υ</b>  |   |   |   |   | φ.  |   |   |   |   | ţ,  
   |   |   |
|  |   |   |   |   |   |   
   
   
  |   |   |  
   
   |   
   |   |   |   |   |   |   |   |   |   | | |
   |   |   |   |   |   |   |   |   |   |   |   |   
   |   |   |
|  | 100%  | 100%  | 100%  | 100% 100%   | 100%  | 100%  
   
   
  | 100%  | 100%  | 100%   
   
   | 100% 100%   
   |   |   | 100%  | 100%  | 100% 100%   | 100%  | 100%  | 100%  | 00% 100%  | 100%  
   | 100%  | 00% 100%  | 100%  | 100%  | 100%  | 100%  | 100% 100  | % 100%  | 100%  | 100%  | 100% 10   | 0% 100%   
   | 100%  | 100%  |
|  | 750   | 2853  | 3249  | 4096 549  | 503   | 642   
   
   
  | 590   | 1790  | 6235   
   
   | 6712 6712   
   |   |   | 936   | 2527  | 781 541   | 716   | 883   | 288   | 46 1420   | 1143  
   | 1276  | 1332 2529   | 3000  | 3304  | 349   | 1556  | 551 1   | 2644  | 2   | 5732  | 888 38  | 50 705  
   | 3826  | 4438  |
| Development  |   | \$881,104   | \$848,078 \$ <sup>-</sup>   | ,860,924 \$512,549  | \$759,845   | \$1,258,795   
   
   
  | \$16,352,940  | \$1,178,231   | \$646,121  
   
   | \$1,524,296 \$4,076,9   
   | 987 \$2,207,017   | \$10,295,604  | \$474,094   | \$2,252,575   | \$170,138 \$234,35  | 56 \$617,779  | \$690,816   | \$1,676,140 \$3   | 4,051 \$300,300   | <b>\$</b> 0   
   | \$2,433,499 \$7,  | 768,665 \$29,826,04   | 5 <b>\$29,826,046</b>   | \$96,009  | \$28,261,141  | \$1,608,896   | 1,677,315 \$549,0   | 500 \$12,900,000  | \$2,500,000   | \$0   | \$0 \$  | 0 \$0   
   | \$0   | \$0   |
| Intersection<br>Development<br>Intersection<br>Development   |   | 0<br>\$0<br>0%<br>0<br>\$0<br>\$0<br>100%<br>750  | 0         0           \$0         \$0           0%         2%           0         54           \$0         \$16,677           100%         100%           750         2853  | 0         0         0           \$0         \$0         \$0           0%         2%         0%           0         54         13           \$0         \$16,677         \$3,393         \$5           100%         100%         100%         100%           750         2853         3249         \$1           \$3,779,513         \$881,104         \$848,078         \$1 | 0         0         0         0         0         0         0         0         0         0         0         0         0         \$0 | 0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         \$0 <th< td=""><td>0         \$0         \$0</td><td>0         \$0         \$0</td><td>0         \$0         <t< td=""><td>0         0    
    0         0</td><td>0         0</td><td>0         0</td><td>0       0       0       0       0       0       0       0       0       0       0       0       0       0         \$0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0
      0       0</td><td>0         0</td><td>000</td><td>0       0</td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0         0</td><td>0         0 
       0         0</td><td>0       0</td><td>0       0</td></t<></td></th<> | 0         \$0         \$0 | 0         \$0         \$0 | 0         \$0         \$0 <t< td=""><td>0         0</td><td>0         0</td><td>0         0</td><td>0       0       0       0       0       0       0       0       0       0       0       0       0       0         \$0      
\$0       \$0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0         0</td><td>000</td><td>0       0</td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>0       0   
   0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0       0</td><td>0         0</td><td>0         0</td><td>0       0</td><td>0       0</td></t<> | 0         0       
 0         0 | 0         0 | 0         0 | 0       0       0       0       0       0       0       0       0       0       0       0       0       0         \$0 | 0       0 | 0       0 | 0       0 | 0       0 | 0       0 | 0       0 | 0       0 
     0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 | 0         0 | 000 | 0       0 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 0       0 | 0       0 | 0       0 | 0       0 | 0       0 | 0       0 | 0         0 | 0         0   
     0         0 | 0       0 | 0       0 |



ment Breakdown	

TOTAL
\$170,439,471
10%
8398
\$22,327,527
<b></b> ,:
27%
22301
\$10,666,826
4%
3304
\$742,959
0%
0
\$0
09/
2%
1259 \$14,057,526
\$1 <del>4</del> ,007,020
21%
17850
\$32,875,649
13%
10836
\$35,093,766
22%
18352
\$42,154,464
1%
682
\$7,632,189
1%
576
\$4,888,565
φ-1,000,000
100%
83558

1/25/2007

\$170,439,471