



July 20, 2011

Mr. Tim Himmer, PE
City Engineer
City of Ramsey
7550 Sunwood Drive NW
Ramsey, MN 55303

Re: Proposal for Armstrong Boulevard and Sunwood Boulevard/Ramsey Parkway Intersection Design

Dear Mr. Himmer:

OVERVIEW

The City of Ramsey has recently received a major development proposal in the COR area at the southeast quadrant of CSAH 116 and Armstrong Boulevard. The development proposal will include the realignment of Sunwood Boulevard/Ramsey Parkway and its intersection with Armstrong Boulevard. The current preferred alternative for the Armstrong Boulevard and TH 10 Interchange study involves the realignment of Sunwood Boulevard to the north to approximately 147th Avenue. Landform is developing a plan that would accommodate this realignment of Sunwood Boulevard and the proposed development. The current proposal would shift the new intersection of Sunwood Boulevard/Ramsey Parkway and Armstrong Boulevard approximately 70 feet south of the existing 147th Avenue intersection with Armstrong Boulevard. It is the City's desire to construct the new intersection of Sunwood Boulevard/Ramsey Parkway and Armstrong Boulevard in its future permanent location based on the preferred alternative for the Armstrong Boulevard and TH 10 Interchange. The purpose of this work is to determine the appropriate design for the intersection and determine how much of the intersection can be built consistent with the future plans and the construction cost. The work would include analysis of the storm water, sanitary sewer and utility relocation requirements for the project as well as determining the right-of-way needs and costs for the project.

The work is broken into two phases; the Traffic Study and Feasibility Phase and the Final Design and Construction Plans.

SCOPE OF SERVICES

Traffic Study and Feasibility Phase

1.0: Update 2030 Traffic Forecasts and Traffic Operations Analysis

Review the land use, traffic forecasts, and traffic operations analysis being completed by Landform relative to the previous 2030 traffic forecasts for the TH 10 and Armstrong Boulevard Study and the CSAH 116 and Armstrong Boulevard final design. Make appropriate changes to the previous traffic forecasts to reflect the updated land use and transportation system changes identified for the proposed development while maintaining consistency with the forecasts previously presented for the project area.

Update the traffic operations analysis for the project area based on the revised forecasts to determine potential changes in number and length of turn lanes at the Sunwood Boulevard/Ramsey Parkway and Armstrong Boulevard Intersection. The updated analysis would include the first intersection to the east of Armstrong Boulevard on Sunwood Boulevard/Ramsey Parkway to assure that there is adequate spacing to accommodate vehicle queues between intersections.

The product of this task will be a traffic report that identifies the appropriate lane configuration for the intersection of Sunwood Boulevard/Ramsey Parkway and Armstrong Boulevard and the appropriate spacing with the next intersection to the east in order to maintain an acceptable level of service. The report will also evaluate the warrants for a traffic signal at the Sunwood Boulevard/Ramsey Parkway and Armstrong Boulevard Intersection. WSB will submit the report to Anoka County for their review and comment and incorporate changes as appropriate.

2.0 Prepare Feasibility Study for Intersection Improvements

The feasibility study would develop a concept design and cost to construct an intersection at Sunwood/Ramsey Parkway and Armstrong Boulevard that fits with both the future preferred interchange design for Armstrong Boulevard and TH 10 and the existing roadway system. The feasibility study will evaluate the storm water needs, utility relocation or reconstruction needs, number and configuration of lanes, horizontal and vertical alignments, right-of-way needs, construction costs, and funding. A layout for review by Anoka County would be prepared as part of the feasibility study. We anticipate one meeting with Anoka County staff to review the assumptions and design. We will submit a layout to the County for review and comment and will make changes as appropriate to address their comments. We will utilize existing survey and topographic data for the feasibility study. We do not propose to conduct additional survey at this point. We will also utilize the existing geotechnical data for the corridor for determining the roadway pavement section and earthwork needs for the project. We anticipate that there may be some retaining wall needs for the project.

Final Design and Construction Plans

This work assumes that the limits for the final design and construction plans for Armstrong Boulevard are from approximately 500 feet north of 147th, to just north of the BNSF railroad crossing. It is assumed that the project will not involve work in the railroad right-of-way. It is assumed that some retaining wall will be required along Armstrong Boulevard south of 147th and that some relocation of existing utilities will be required to accommodate the retaining walls. It is assumed that the project will include the preparation of signal plans.

3.0 Prepare SJR

WSB will prepare a signal justification report for the intersection of Sunwood Boulevard/Ramsey Parkway and Armstrong Boulevard that will take into account the existing traffic plus the traffic from any approved development in the area.

4.0 Prepare Right-of-way Plans and Parcel Descriptions

WSB will prepare the right-of-way plans and parcel descriptions necessary to acquire the strip takings along Armstrong Boulevard needed for the project.

5.0 Assist in Right-of-Way Acquisition

WSB will obtain appraisals for the strip takings and

6.0 Complete Final Design and Prepare Construction Plans

WSB will complete the final design and construction plans for the intersection of Sunwood Boulevard/Ramsey Parkway and Armstrong Boulevard. The plans will include the areas adjacent to Armstrong Boulevard and will be coordinated with the design for the proposed development and the Sunwood/Ramsey Parkway improvements being developed by others.

A general overview of the tasks is outlined below.

- Title Sheet with current information and project limits.
- Prepare Alignment Plan and Tabulation sheets for Armstrong Boulevard and Sunwood/Ramsey
- Prepare quantity tabulations, earthwork tabulations, typical sections, alignment, profile, cross-section sheets and develop additional sheets. Bunker Lake Boulevard Extension and Puma Street widening.
- Prepare Staging and Traffic Control Sheets
- Prepare in place Topography and Removals and add sheets for Bunker Lake Boulevard Extension and Puma Street widening.
- Prepare sanitary sewer relocation/reconstruction plans
- Update Armstrong Boulevard drainage plans. Prepare storm drainage layout and sizing. Conduct spread run-by analysis and determine catch basin locations. Prepare final storm drainage plans and tabulations.
- Develop a Storm Water Pollution Prevention Plan (SWPPP) for the project including temporary and permanent erosion control measures and storm water management systems.
- Prepare signing and striping plans including tabulations and details
- Prepare final signal plans including accommodations for EVP system.
- Prepare Intersection Details
- Prepare Bidding Schedule and Estimated Quantities, Cost

7.0 *Prepare Project Manual*

This will include the technical specifications, the Instructions to Bidders, and the Contract conditions.

8.0 *Prepare Permit Applications*

The permit applications will include the following permits

- Minnesota Pollution Control Agency (MPCA) NPDES Storm Water Permit
- Minnesota Pollution Control Agency (MPCA) Sanitary Sewer Extension Permit
- Minnesota Department of Health (MDH) Permits for watermain extension and dewatering.
- Anoka County Work in ROW Permit.
- Lower Rum River Watershed Management Organization Permit.

9.0 *Bidding Administration*

Bidding Administration will include the following:

- Prepare Advertisement
- Distribute Bidding Documents
- Answer Questions
- Prepare, issue and distribute addenda

- Attend bid opening

SCHEDULE

The City of Ramsey desires to have these improvements constructed in 2012. In order to provide as much time as possible for construction, the bid opening is proposed for March of 2012. The table below provides an overall general milestone schedule for the project assuming the authorization to proceed on the Traffic Study and Feasibility Study is authorized by August 1, 2011.

Task	Date
Complete Traffic and Feasibility Study	September 15, 2011
Complete SJR	November 30, 2011
Complete Right-of-Way Plans	November 30, 2011
Construction Plans for County & State Aid Review	January 5, 2012
Advertise	February 28, 2012
Bid Opening	March 30, 2012
Right-of-way Acquired	March 30, 2012
Construction Start	May 1, 2012

COST ESTIMATE

WSB estimates the cost for the traffic and feasibility study phase at \$35,290. See the attached table. The final design and construction plan phase is estimated at. WSB will only bill the City for the actual hours spent at our standard billing rates up to the maximum estimated amount.

Sincerely,

WSB & Associates, Inc.



Anthony Heppelmann, PE
Vice President