



December 6, 2013

Mr. Kurt Corrigan, P.E.  
Transportation and Engineering Manager  
Village of Orland Park  
14700 Ravinia Avenue  
Orland Park, IL 60462

**Re: Construction Management Proposal  
LaGrange Road Corridor Improvements – East Side Only  
Segments 1, 2, and 3 (131<sup>st</sup> Street to 179<sup>th</sup> Street)  
Orland Park, IL**

Dear Mr. Corrigan:

V3 Companies (V3) is pleased to submit this proposal for Construction Management services for the LaGrange Road Corridor Improvements project. We believe this delivery system will be in the best interest of the Village and will provide the greatest amount of flexibility to execute this work as it becomes available during or following the IDOT LaGrange Road contracts.

In a traditional general contract delivery, this project would be dependent upon completion of the IDOT contract prior to starting. This proposed delivery engages a construction manager to monitor the IDOT work and execute trade-specific contracts in order to complete phases of the corridor improvement work as the IDOT work continues. This will provide an expedient delivery of the project as well as mitigation of cost claims due to the detailed nature of the contracted work.

We are confident that V3's contributions will meet the high quality standards of the Village and will ultimately provide an enhancement project that will make the Village and its residents very proud.

We look forward to working with you, not only as your construction manager, but also as your partner in achieving success in this important project.

If you have any questions, please feel free to contact me directly by phone at 630-729-6223 or by email at [mfamiglietti@v3co.com](mailto:mfamiglietti@v3co.com).

Sincerely,

**V3 COMPANIES**

A handwritten signature in blue ink, reading "Michael Famiglietti".

Michael Famiglietti, P.E.  
Vice President  
Director of Construction

Attachments



# CM AT-RISK DELIVERY

## LaGrange Road Corridor Enhancement

### DELIVERY APPROACH

The At-Risk Construction Management delivery system combines Construction Management with General Contracting. This proposed contract includes a Not-To-Exceed amount that will incorporate all trade contractor costs, as well as construction management and general conditions.

The construction management fee will be a fixed percentage of the actual construction costs incurred. The General Conditions will be determined by the full project team and include allowances for anticipated tasks within the contract. All other work will be procured through trade contractor bidding and will be reviewed openly by the full project team. Upon acceptance of individual trade bids and Village authorization to proceed, V3 will enter into the contract with the trade and execute the work. No contracts will be executed and no expenses will be incurred without Village authorization.

### BENEFITS OF CM AT-RISK

1. **IDOT Contractor Interface** - Due to this corridor improvement work occupying the same space as the IDOT roadway improvements, very specific coordination with the IDOT contractor will be required in order for both projects to be executed successfully in the same time frame. This CM delivery allows the CM to interface/negotiate with IDOT Contractor independent of governmental agreements.
2. **Timing of Trade Bid Packages** – Because the work under this contract is dependent upon the progress of other contractors and other contracts, it will be difficult to determine the full contract scope of work at one time. This delivery offers flexibility to award very specific scopes of work to coincide with the appropriate work being done on other contracts.
3. **Schedule Control** - Greater control of schedule by directing individual trades and coordinating with IDOT contractor for specific scope of work.
4. **Mitigation of Cost Claims** – Greater potential to mitigate cost claims through the use of specific trade scopes that are defined during the bid process. Under the CM delivery the actual costs from the trade performing the work can be evaluated and approved by the project team. This provides the Village with fair and transparent pricing direct to the firm performing the work and not diluted by any General Contract.
5. **Quick Reaction to Scope Changes** – By assigning General Condition values as well as breaking down trade contracts into specific scopes of work, any changes can be handled quickly and directly with the trade performing the work.
6. **CM is Trusted Advisor** – Under the Not-To-Exceed delivery that includes a construction management fee, the CM can maintain a fiduciary responsibility to Owner throughout the project. This alignment of goals is critical in this project that will experience varying scope and schedule of work. It requires the all team members to react based on progress of the IDOT contract.



# CM AT-RISK DELIVERY

## LaGrange Road Corridor Enhancement

### PROCUREMENT

This proposed approach is for the Village to issue a Not-To-Exceed contract for 2014 which will then be subsequently amended annually to correspond with the schedule of remaining work and Village budget. Consistent with public agency requirements, an open public bid will be conducted. V3 will assemble trade specific bid packages that will be advertised as a specific bid opportunity. Each trade bid will be opened publicly and the lowest responsible bid will be accepted for each trade. The proposed outline for contract set-up and procurement is as follows:

- January 2014 – Execute Not-To-Exceed (NTE) Contract for Construction Management currently anticipated being \$3.5M.
- Terminate Current 2013 Phase III Construction Engineering Contract.
- All remaining Phase III Construction Engineering scope of work will be included in the NTE contract.
- Contract incorporates V3's fixed percentage fee for V3 management of 2014 work. This fee will be applied to all individual contracts executed under this NTE contract.
- Project team determines allowances for 2014 General Condition items.
- Individual trade contracts will be assigned to V3 following the appropriate contract procurement procedures and authorization to proceed.
- No work will proceed and no trade contract expenses will be incurred without Village approval.
- The value of work plus fees and general conditions will not exceed the established annual project budget unless the Village provides authorization.
- Retainage will be held on individual trade contracts, but not on the management or general condition work.
- Retainage will be reduced upon substantial completion of each individual trade contract scope and ultimately released upon final acceptance of individual trade contract work.
- Budgets for subsequent years will be evaluated and approved by the Village.
- An annual amendment will be issued to the V3 CG contract through completion of the project.

### INVOICING & MONTHLY REPORTING

V3 will issue a single invoice to the Village on a monthly basis. This invoice will incorporate all individual trade contractors invoicing including lien waivers, sworn statements and certified payroll, all charges against the general conditions, and the construction management fee. The invoice pay items will be set up so that the individual trade contractor invoices that were issued to V3 will be provided as backup to substantiate the invoice to the Village. Along with each monthly invoice, V3 will provide a summary report detailing the work completed in that period.

Retainage will be held on each individual trade contract. No retainage will be held on the construction management fee or any general condition item. Reduction of retainage will be by specific trade scope of work and will be reduced and subsequently released independent of any other work. All reductions and/or release of retainage will require the acceptance of work by V3 and by the Village.



# CM AT-RISK DELIVERY

## LaGrange Road Corridor Enhancement

### **Not-To –Exceed Amount: EAST CORRIDOR IMPROVEMENTS (See Exhibit B)**

Based on the proposed budget allocation for 2014, it is our understanding that the construction management contract will be issued in the amount of \$3.5M. A detailed breakdown of these costs is provided in Exhibit A. These costs are estimates only. The actual contracted rates will be invoiced in accordance with the individual trade contract bid packages that will be issued as part of this contract.

The balance of V3's current Phase III Resident Engineering contract will be rolled into the Not-To-Exceed contract for construction to take place in 2014. These fees are also included in the detailed breakdown provided in Exhibit A.

V3 Construction Management fee will be six percent (6.0%) of the hard cost of construction. This is defined by the actual amount of trade contracts entered into by V3 on behalf of the Village and incorporates the overall project Performance and Payment Bond and insurances.

The proposed General Conditions are summarized in Exhibit A and in include items such as the following:

- Site Supervision
- Construction Engineering Services (based on previous RE contract)
- Design Services During Construction (based on previous RE contract)
- Testing (based on previous RE contract)
- Performance & Payment Bond
- Highway Permit Bond
- IDOT Contractor Coordination
- Street Sweeping
- Project Office
- Staging Yard
- Erosion Control
- Site Accessibility Provisions

# DELIVERY SYSTEM COMPARISON

Contractual issues	General Contractor	CM (Agent)	CM (At-Risk)	Design/Builder
Number of Owner Held Contracts	SINGLE	MULTIPLE	SINGLE	SINGLE
Holder of Trade Contracts	GC	OWNER	CM	DB
Primary Risk Exposure	GC	OWNER	CM	DB
Risk Insurance	Through Bonding & Retainage on GC	Through Bonding & Retainage on Trades	Through Bonding & Retainage on CM	Through Bonding & Retainage on DB
Owner's Contractual Authority	Over GC Only	Over Trades	Over CM Only	Over DB Only
Construction Provider's Fiduciary Responsibility	To PROJECT	To OWNER	Initially to the Owner, upon final price switches to PROJECT	Initially to Owner, upon final price switches to PROJECT
Extent of Owner's Exposure for Scope Gaps Between Trades	LOW	HIGH	MODERATE	LOW
Responsibility to Disclose Information Relevant to Owner's Interest	NO	YES	Initially Yes, Later No	Initially Yes, Later No
Responsibility For Construction Means and Methods	GC	TRADES	CM	DB
Cost Issues				
Cost Commitment	HARD DOLLAR BID	BUDGETS	GMP/Lump Sum	GMP/Lump Sum
Cost Guarantees	Only on Defined Scope	NONE	GMP/Lump Sum	GMP/Lump Sum
Opportunity to Review Trade Contract Bids	CLOSED	OPEN	OPEN or CLOSED	OPEN or CLOSED
Incentive to Decrease Total Project Cost	NONE	HIGH (to obtain future work)	MODERATE (through savings clause)	Depends on Contractual Arrangement
Realization of Cost Savings	GC	OWNER	SHARED	Depends on Contractual Arrangement
Typical Overall Project Cost	HIGH	LOW	MODERATE	MODERATE
Schedule Issues				
Time Guarantees	YES	NONE	YES	YES
Responsibility for Schedule Enforcement	GC	OWNER	CM	DB
Early Construction Start Potential	LOW	MODERATE	MODERATE	HIGH
Fast Tracking Possibility	NO	YES	YES	YES
Miscellaneous				
Contract Administration Responsibility	GC	OWNER	CM	DB
Owner Administrative Involvement	LOW	HIGH	MODERATE	MODERATE
Owner Involvement in Monitoring Construction	HIGH	LOW	MODERATE	HIGH

# Project Organizational Chart

## LaGrange Road Corridor Enhancements



D Construction (IDOT Contractor – Segments 1, 2, 3)



**Construction Manager**

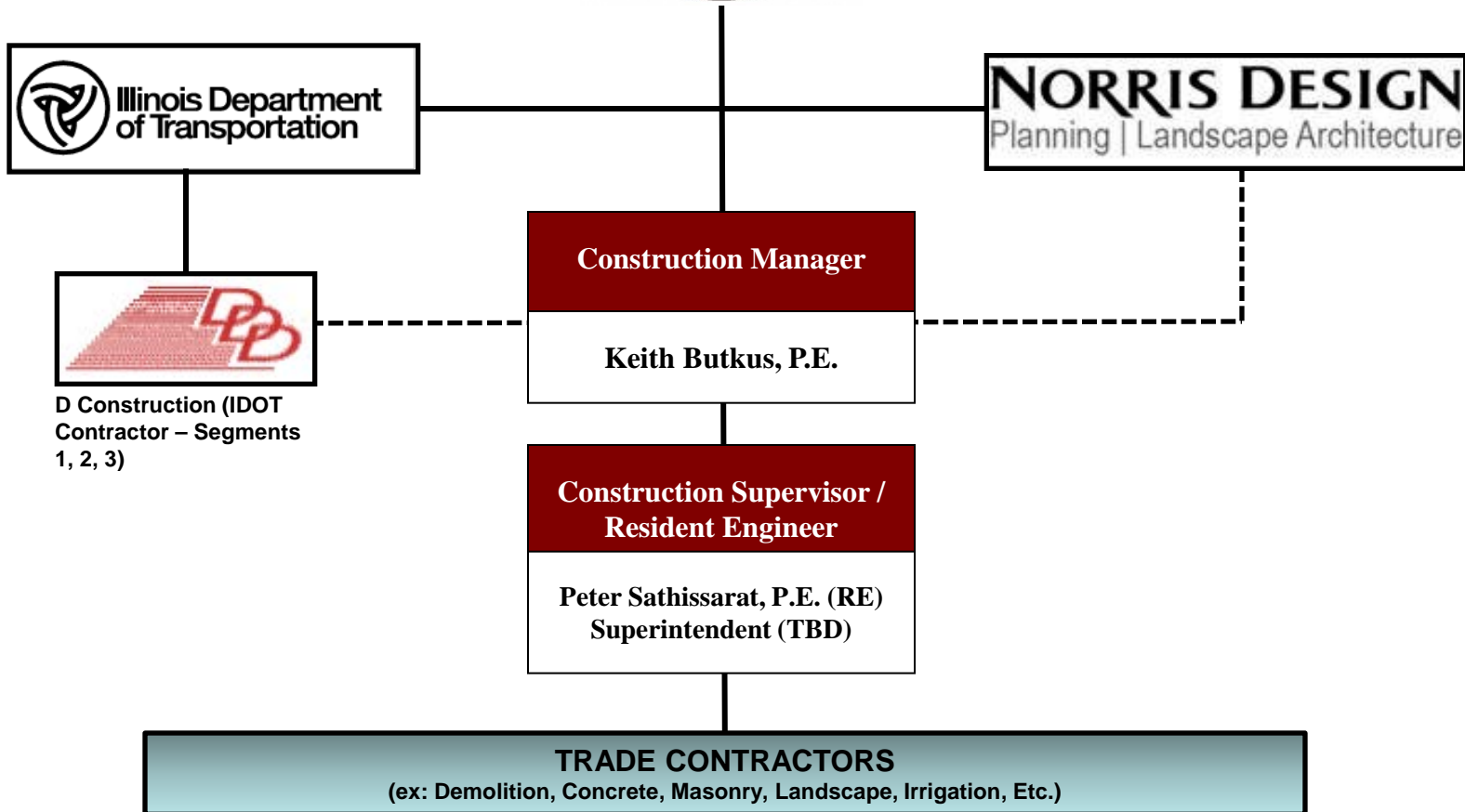
**Keith Butkus, P.E.**

**Construction Supervisor / Resident Engineer**

**Peter Sathissarat, P.E. (RE)  
Superintendent (TBD)**

**TRADE CONTRACTORS**

(ex: Demolition, Concrete, Masonry, Landscape, Irrigation, Etc.)





# Keith Butkus, P.E.

## Senior Project Manager

### YEARS OF EXPERIENCE

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With V3: 18  
Other: 8

### EDUCATION

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Bachelor of Science  
Civil Engineering  
University of Illinois –  
Champaign

### REGISTRATIONS

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Professional Engineer:  
Illinois, 062-053670, 2000

### SELECTED CONTINUING EDUCATION

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UNIVERSITY OF  
WISCONSIN:  
Successful Construction  
Management Techniques  
and Procedures

Risk Management

IDOT:  
Documentation

Pavement Construction

Drainage Structure  
Construction

### AREAS OF SPECIALIZED SKILL

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Parks and Recreation  
Construction

Infrastructure Construction

Mass Earthwork

Wellpoint Dewatering

Mr. Butkus has over 26 years of construction management and contracting experience involving private and public site work and infrastructure construction. He has a background in construction sequencing, scheduling and cost estimating as well as personnel and project management. Mr. Butkus is responsible for the construction management and/or general contracting of various infrastructure projects.

### NOTEWORTHY PROJECT EXPERIENCE

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**2011-2012 Capital Site Improvements, Glen Ellyn, IL** – Senior Project Manager for the \$16M College of DuPage Capital Site Improvements for upgrading campus infrastructure and site features. The projects were managed through an agency construction management delivery system from initial concept design through construction and maintenance of the improvements. Unique to the construction delivery was the use of a trade specific bid packages that crossed several projects. This enabled the college to execute multiple projects ranging in size while recognizing the cost benefit of a single large project. Over 20 individual projects were completed using a total of 30 individual trade contracts and ultimately returning a significant cost savings to the College.

**Skokie Valley Trail, Lake Bluff, IL** – Project Manager for this \$2.2 million dollar bike path project south of Illinois Route 176 within the Commonwealth Edison Power Company and Union Pacific Railroad right-of-ways. A key challenge involved accomplishing the installation of a precast box culvert for the railroad underpass in a 30-hour window. The project required close coordination with Union Pacific Railroad for track removal and replacement and with Commonwealth Edison for service relocations. Project scope included the installation of a culvert and more than 2100 lineal feet of asphalt paved bike path along with associated restoration.

**Millennium Trail Construction, Round Lake, IL** – Project Manager for the construction of approximately 2.5 mile of asphalt and aggregate trail; installation of a 210-foot-long, 13-foot-wide timber bridge, and the installation of a 50-foot-long, 13-foot-wide timber boardwalk. The project scope also involved the relocation of disc golf holes, including concrete tee box and hole locations.

**Foss Park Streambank Stabilization, North Chicago** – Project Manager for this \$685,000 streambank stabilization located entirely within the Foss Park Golf Course. V3 stabilized 6,720 LF of streambank including tree clearing, slope grading, toe protection and restoration. Approximately 4,500 CY of earth excavation was hauled from ditch banks to on-site disposal area and 2,100 LF of tree revetment logs were anchored through the subgrade at the toe of the slope using cabling that was drilled through the logs and driven into the subgrade. V3 was responsible for building 7 Riffle complexes, 3,540 LF of coir roll installation and plantings, and installing over 20,000 native plugs. Approx 8-acres of native seeding along stream slopes and upland areas was also installed.

**Stormwater Improvements at 2<sup>nd</sup> & Cumnor, Downers Grove, DuPage County, Illinois** – Project Manager for this stormwater improvement project involving demolition of residential structures, storm sewer, and roadway in order to construct a new naturalized detention basin, park site, and reconstructed roadway with upsized storm sewer.



# Keith Butkus, P.E.

## Senior Project Manager

**Waubonsee Community College Intersection Improvements, Sugar Grove, Illinois** – Construction Project Manager for the reconstruction of the southern entrance into Waubonsee Community College at Illinois Route 47 and Waubonsee Drive. Work included self performed roadway demolition, roadway grading, storm sewer installation and aggregate base installation as well as the management of P.C.C. Pavement installation and traffic signal installation with a total construction value of \$700,000.

**Harvard Street, York Street & Brush Hill Road Improvements, Elmhurst, IL** – General contracting Project Manager for the reconstruction of 2,300 linear feet of existing Roadway, 1,000 Linear Feet of roadway widening and 4.67 acres of new parking lot construction associated with the construction of the new Elmhurst Memorial Healthcare Complex. Total construction costs valued at approximately \$3M.

**Euclid Ave./Harvard St. Reconstruction, Elmhurst, Illinois** – Construction Management Project Manager for the reconstruction of two City of Elmhurst residential streets associated with the construction of the Elmhurst Memorial Hospital – York Street Campus. Total construction costs valued at approximately \$2.0 million.

**River Bend Park, St. Charles, Illinois** – General Contracting Project Manager for the first phase of a new park facility. The work, valued at \$633,000, included mass grading, underground utilities, parking lot and walking paths, fencing and naturalized and turf seed planting.

**Meadow Ridge, Northbrook, Illinois** – Construction Management Project Manager for a 164 unit residential townhome subdivision. Work included the management of mass grading operations, underground utility installation, roadway paving and street light installation. Total construction contracts were valued at over \$3 million.

**Riverpark, Northbrook, Illinois** – General Contracting Project Manager for a 7 acre office condominium project. Work included self performed earthwork and aggregate base installation as well as the management of underground utility installation, parking lot paving and parking lot lighting installation with a total construction value of \$1.25 million.

**Waubonsee Community College Intersection Improvements, Sugar Grove, Illinois** – General Contracting Project Manager for the reconstruction of the southern entrance into Waubonsee Community College at Illinois Route 47 and Waubonsee Drive. Work included self performed roadway demolition, roadway grading, storm sewer installation and aggregate base installation as well as the management of P.C.C. Pavement installation and traffic signal installation with a total construction value of \$700,000.

**Yorkshire Square, Aurora, Illinois** – Construction Management Project Manager for a 204 unit residential townhome subdivision. Work included the management of mass grading operations, underground utility installation, roadway paving, street light installation and landscaping. Total construction contracts were valued at \$3.8 million.

**Stonegate West/Indian Trail Road, Aurora, Illinois** – Project Manager for a \$9.5 million residential subdivision and roadway extension, of which \$1.2 million was self-performed roadway grading, aggregate placement, and storm sewer.

**Morton Arboretum, Lisle, Illinois** – General Contracting Superintendent for \$3.9 million sitework construction project including 95,000 cubic yards of self-performed earthwork, 4,500 lineal feet of new roadway, various storm sewer, sanitary sewer and water main improvements and the construction of a 500-stall brick-paver parking lot.





# Peter Sathissarat, P.E.

## Resident Engineer

### YEARS OF EXPERIENCE

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With V3: 14  
Other: 0

### EDUCATION

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Master of Science,  
Civil Engineering  
University of Illinois at  
Urbana

Bachelor of Science  
Civil Engineering  
University of Illinois at  
Urbana

### REGISTRATIONS

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Professional Engineer:  
Illinois, 062-056339, 2003

### CONTINUING EDUCATION

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IDOT QC/QA PROGRAM:  
Portland Cement Concrete  
Level I

IDOT TRAINING:  
Nuclear Density Testing  
ICORS

Electronic RE

Visual Training

Documentation of Contract  
Quantities: #09-0244

Construction Materials  
Inspection Documentation

DIRTBA/IDOT Materials  
Management

IDOT/APWA Local Agency  
& Consultant Resident  
Engineer's Training

Mr. Sathissarat has 14 years of experience in construction engineering. He has obtained experience in both vertical and infrastructure construction and has worked on both public and private sector projects. His most recent experience is on roadway improvement projects for the Village of Orland Park, the City of Chicago and other local municipalities.

### NOTEWORTHY PROJECT EXPERIENCE

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**Peterson and Fairfield Avenues, Chicago Department of Water Management, Chicago, Illinois** – Resident Engineer for \$13M sewer installation project. This project included installation of drainage structures, private drain connections, modifications to MWRD junction and siphon chambers and over 1.1 miles of storm sewer improvements. Up to 84" diameter sewer was installed in a City business district on an arterial street. Additional work performed included pavement restoration, curb & gutter replacement, construction of ADA compliant ramps, sidewalk replacement, driveway reconstruction and pavement markings. The projects streets were located in both business and residential areas on and adjacent to arterial streets. V3 coordinated all work with Alderman's offices, various city services, businesses and residents.

**143<sup>rd</sup> Street & LaGrange Road Improvements, Orland Park, Illinois** – Resident Engineer for extensive roadway improvements to 143<sup>rd</sup> Street and LaGrange Road for the Village of Orland Park. The \$12M project included pavement widening, pavement reconstruction, a new mainline watermain and an oversized storm sewer system for storm water detention, irrigation, street lighting, landscaping, plantings, brick pavers and numerous decorative landscaping improvements. The existing right-of-way contained several existing utilities that had to be moved, adjusted, or maintained along with the proposed utilities, lighting and traffic signals. Services included Phase III engineering services, construction observation and documentation, utility coordination and public relations.

**Tri State Water Association Water Distribution Improvements, Darien, Illinois** – Resident Engineer for an extensive water main replacement and improvement project for DuPage County. The project was located in a mature residential area and included the installation and replacement of over a mile of ductile iron pipe water main, valve vaults, fire hydrants, water services, etc. The water main construction used both open cut and directional boring methods of installation. Also included in the scope of work were culvert installation, pavement restoration, asphalt and concrete driveway restoration and landscape restoration. Services included construction inspection, project documentation, utility coordination and public relations.

**Edward Hines Jr. VA Hospital Watermain Replacement, Hines Illinois** – Resident engineer for this water main improvement project. The project included the installation of approximately 2800 linear feet of water main to replace portions of an aging water main on the Hines VA campus. It also included new water main installation of an approximate 1500-linear-foot feed from Roosevelt Rd. A pump station was included at the second feed to bring the proposed watermain to the appropriate pressure and to feed an existing water tower. V3 provided resident engineering services during the construction of the project to ensure conformance to the Department of Veteran Affairs requirements. A primary project challenge included the need for the entire campus to remain in service during the watermain replacement



# Peter Sathissarat, P.E.

## Resident Engineer

which was addressed with creative design solutions such as pipe boring. Services included construction inspection, project documentation and record drawings.

**Washington Park Storm Water Improvements, Downers Grove, Illinois** – Resident Engineer for a \$2.9 million storm water detention basin and park improvement project for the Village of Downers Grove. This project consists of mass earth excavation, storm and sanitary sewer, water main, cast-in-place concrete retaining walls, softball and soccer fields, parking lot improvements, a basketball court, irrigation system and landscaping. Other work included park site furnishings such as a decorative fountain, playground equipment, a picnic shelter and ornamental fence. Some of the services V3 is providing include construction management, observation and inspection, measurement of quantities, documentation per Village standards, addressing residents' and business owners' needs and acting as liaison between the contractors and various departments of the Village.

**Carpenter Street Storm & Water Improvements, Downers Grove, Illinois** – Resident Engineer for roadway, sewer and water main improvements for Carpenter Street in the Village of Downers Grove. This project consisted of rehabilitating and resurfacing of approximately one mile of a residential collector street with underground utility construction. The existing pavement is mostly 20 feet wide in width and consists of an urban design with curbs and gutters. Other work included curb and gutter and sidewalk replacement. V3 provided construction management, observation and inspection, measurement of quantities, documentation per Village standards, address residents and business owners needs and act as liaison between the contractors and various departments of the Village.

**US 20 (Maumee Street) Streetscape Improvements, Angola, Indiana** – Project Manager responsible for providing Phase III engineering services. As part of the City of Angola's downtown revitalization efforts, roadway improvements were constructed along US Route 20 (Maumee Street) from the Indiana Northeastern Railroad to Martha Street and on Wayne Street from Gilmore Street to Gale Street. The project length was approximately 0.6 miles. The scope of work included storm sewer modifications, irrigation, new curb and gutter, sidewalks, installation of medians, resurfacing, planters, trees, landscaping and modifications to the parking areas in the Public Square.

Key challenges for the project were matching grades at existing structures with new curb grades and designing traffic movements in the Public Square, which incorporates on-street parking, roundabout traffic flows, and heavy truck volume. Services included construction engineering services, construction observation and documentation.

**Randall Road & IL 64 Intersection Improvements, St. Charles, Illinois** – Resident Engineer for this \$15.8 million widening and reconstruction of Randall Road through the intersection of Randall Road and Illinois Route 64 in St. Charles, Illinois. The scope included the widening of both roadways to include exclusive right turn lanes and double left turn lanes. IL Rte. 64 was widened to two through-lanes in each direction and Randall Road was widened to three through-lanes in each direction. Extensive infrastructure relocations including water mains ranging in size from 6 inches to 16 inches and storm sewers ranging in size from 12 inches to 60 inches were required. As part of this project, numerous utilities were relocated. New sidewalks and bike paths were constructed along Randall Road and a ninety-foot long pedestrian underpass was constructed at the north end of the project. New street lighting and traffic signals with interconnection and emergency preemption systems, and raised irrigated landscaped medians were also part of the project.

**Laraway Road Station/Parking Lot & 179th Street Parking Lot, New Lenox & Orland Park, Illinois** – Resident Engineer for this \$4.3 million station and parking lots project. The project consisted of constructing a new station and parking lot in New Lenox, IL and expanding an existing parking lot in Orland Park, IL. The project included the installation of new utilities, excavation and grading, construction of an 800 square foot warming house, a 300 space parking lot, a 700 foot three lane wide access road, a detention basin, a 640 foot platform and adding 134 spaces to an existing parking lot.

**Algonquin Road Reconstruction from IL Rte 31 to Randall Road, McHenry County, Illinois** – Resident Engineer for this \$12.1 million highway reconstruction project. Scope of work included utility relocations/coordination,



# Peter Sathissarat, P.E.

## Resident Engineer

excavation, bridge and retaining wall construction, concrete base course, concrete curb and gutter, asphalt pavement, storm and sanitary sewer construction, and traffic signal improvements.

**IL 64 (North Avenue) from Addison Road to Villa Avenue & from IL 53 to Addison Road, Villa Park/Lombard, Illinois** – Assistant Resident Engineer for this \$35.4 million IDOT project involving the construction, inspection, contract administration, onsite material testing and material quality assurance testing of IL 64 (North Avenue) from IL 53 to Villa Avenue in Villa Park and Lombard. New PCC pavement construction included three lanes in each direction with a median 30 feet wide, left and right turn lanes and shoulders 12 feet wide. A new road known as the Adele Avenue Connector was constructed. Yale, Princeton and Ardmore Avenues were reconstructed. Frontage roads and noise abatement walls were constructed at various locations. Traffic signals were modernized and interconnected at nine locations. Lighting was provided for the entire length of the project. Curb and gutter, storm sewer and sidewalks were provided.

**Pavement Maintenance Program, DuPage County, Illinois** – Resident Engineer for this \$3.7 million project for DuPage County. Scope of work included approximately 50 lane miles of bituminous pavement milling and resurfacing. In addition, pavement reconstruction and widening, storm sewer improvements, concrete curb and gutter removal and replacement, sidewalk and driveway improvements, traffic signal improvements and lane reconfiguration were performed. The project was funded by DuPage County. It included work at twelve different locations and required coordination with various municipalities and other agencies.

**22nd Street, Lombard, Illinois** – Assistant Resident Engineer for this \$3.0 million roadway reconstruction project. The scope of work included water main and storm sewer installation, concrete pavement, curb and gutter and sidewalk installation, street lighting and landscaping.

**Special Assessment 216, Lombard, Illinois** – Assistant Resident Engineer for this residential area street reconstruction. The scope of work included new storm sewer and water main, concrete curb and gutter, asphalt concrete pavement, concrete sidewalk installation, concrete driveways, street lighting and landscaping.

**Intersection of Grace Street/Parkside Avenue & St. Charles Road, Lombard, Illinois** – Assistant Resident Engineer for this \$1.8 million project for the Village of Lombard, funded in majority by STP funding administered by IDOT. Scope of work for the project included complete reconstruction of the existing at-grade crossing of the UPRR tracks at Grace Street in Lombard. Other associated work included complete reconstruction of Grace and St. Charles Road for approximately ½ mile adjacent to the crossing, resurfacing of a portion of St. Charles Road, underground utility construction, streetscape improvements and street lighting installation. New traffic signals were installed at the intersection and rail crossing utilizing PTZ cameras, video traffic detection and railroad preemption. The project entailed a high level of coordination between the Village, IDOT, the ICC and the Union Pacific Railroad at all times to ensure safety, quality and on time completion of the work.

**North Burnham Park Redevelopment (Soldier Field), Chicago, Illinois** – Infrastructure Construction Engineer for this multi-million dollar adaptive re-use of Soldier Field project. Scope of work included water main, storm sewer and sanitary sewer installation, concrete curb and gutter, concrete sidewalk, bituminous pavement and landscaping.

**Romeoville Sports Complex, Romeoville, Illinois** – Project Engineer for this \$800,000 recreation park project. Scope of work included water main, storm sewer, and irrigation system installation, mass grading, construction of soccer fields and baseball fields, concrete curb and gutter, bituminous pavement and landscaping.

**Settlers' Park, Plainfield, Illinois** – Project Engineer for this \$1,600,000 recreation park project. Scope of work included earthwork, storm sewer and irrigation system installation, concrete curb and gutter, bituminous pavement, unit paving, playground equipment, concrete walls and footings, unit masonry and cut stone veneer, pedestrian bridge, site lighting and landscaping.



# Peter Sathissarat, P.E.

## Resident Engineer

**Dean Street, St. Charles, Illinois** – Assistant Resident Engineer for this \$600,000 roadway reconstruction project. Scope of work included water main and storm sewer installation, concrete curb and gutter, concrete sidewalk, bituminous pavement and landscaping.

**Crystal Lake Business Center, Crystal Lake, Illinois** – Construction Engineer for this \$221,000 business parcel development. The scope of work included earthwork mass grading, storm sewer installation and topsoil relocation.

**Schaumburg Commuter Parking Lot, Schaumburg, Illinois** – Design Engineer for this project involving survey, project studies, design and construction services for the complete removal and replacement of a 1,300-space parking lot. The project services included completion of a Project Report, Preparation of Final Plans Specifications and Cost Estimates and Construction Resident Engineering Services in accordance with Federal Aid Guidelines. The design issues included access improvements, circulation improvements, water main extension, new lighting, safety issues, streetscape and landscaping, pedestrian and bicycle facilities, storm water management and the installation of a pedestrian corridor connecting the Metra Station to the Village of Schaumburg Baseball Stadium. The Project Report was completed and approved within 7 months with final plans completed just 2 months later.

**2000 Rehabilitation Program, Lisle, Illinois** – Design Engineer for this project consisting of survey, design and construction engineering services for the resurfacing or reconstruction of approximately 15,000 linear feet of roadways located within residential and industrial areas. All areas were surveyed with an electronic data collector using the 1983 Illinois State Plane Coordinate System. Topographic information, using AutoCAD, was incorporated into the Village's Global Information System. The rehabilitation program consisted of complete or partial asphalt removal on all curb streets, asphalt grinding to profile streets, curb patching, base course undercut and reconstruction, utility structure adjustments, aggregate base paving, BAM base paving, Petromat installation, sidewalk removal and replacement, sanitary sewer point repairs, storm sewer repair and replacement, underdrain installation, and pavement markings. The project was funded utilizing Motor Fuel Tax.

**Morgan Stanley Corporate Campus Roadway Improvements, Riverwoods, Illinois** – Resident Engineer for roadway improvements related to the expansion of an office campus from 2,200 employees to 5,500 employees. The capacity and interconnection of eight intersections were studied by using Highway Capacity Software and Synchro software. A Traffic Signal Warrant Analysis and Intersection Design Study were performed for one intersection and alternate traffic distributions were analyzed for construction staging. Construction Documents were prepared for roadway and traffic signal improvements to one major Lake County arterial and one major Cook County arterial highway. Provided coordination between the client, Lake County Division of Transportation, Cook County Highway Department, and the Village of Riverwoods.

**Subdivision/Development Reviews, Bolingbrook, Illinois** – Construction Engineer on this project that involved performing municipal reviews of public improvements for residential, commercial and industrial development projects. Project included the review of plans, plats of subdivision, plats of easement, Stormwater Management Reports, storm sewer calculations, IEPA permit applications, cost estimates and other supporting documentation.



**EXHIBIT A**  
**2014 BUDGET SUMMARY - EAST CORRIDOR IMPROVEMENTS**

**Client:** Mr. Kurt Corrigan  
Village of Orland Park  
14700 Ravinia Avenue  
Orland Park, Illinois 60462  
**Phone:** 708-403-6123  
**Email:** kcorrigan@orland-park.il.us

**Job Name:** LaGrange Road  
Orland Park, IL  
**Date of Plans:**  
**Revision Date:** 7/2/2013  
**Date of Estimate:** 12/6/2013

SEGMENT ONE		COST
1.00	LANDSCAPING	\$ 205,000.00
2.00	HARDSCAPE & PAVERS	\$ 18,000.00
3.00	MONUMENTATION & WALLS	\$ 142,000.00
4.00	GENERAL CONDITIONS	\$ 297,000.00
5.00	CONTINGENCY (10%)	\$ 66,000.00
<b>SUBTOTAL HARD COSTS &amp; CONTINGENCY</b>		<b>\$ 728,000.00</b>

SEGMENT TWO		COST
1.00	LANDSCAPING	\$ 290,000.00
2.00	HARDSCAPE & PAVERS	\$ 721,000.00
3.00	MONUMENTATION & WALLS	\$ 290,000.00
4.00	GENERAL CONDITIONS	\$ 313,000.00
5.00	CONTINGENCY (12%)	\$ 195,000.00
<b>SUBTOTAL HARD COSTS &amp; CONTINGENCY</b>		<b>\$ 1,809,000.00</b>

SEGMENT THREE		COST
1.00	LANDSCAPING	\$ 175,000.00
2.00	HARDSCAPE & PAVERS	\$ 63,000.00
3.00	MONUMENTATION & WALLS	\$ 158,000.00
4.00	GENERAL CONDITIONS	\$ 299,000.00
5.00	CONTINGENCY (10%)	\$ 70,000.00
<b>SUBTOTAL HARD COSTS &amp; CONTINGENCY</b>		<b>\$ 765,000.00</b>

<b>SUBTOTAL - CONSTRUCTION:</b>		<b>\$ 3,302,000.00</b>
<b>CONSTRUCTION MANAGEMENT FEE (6.0%):</b>		<b>\$ 198,000.00</b>
<b>TOTAL CONSTRUCTION COST:</b>		<b>\$ 3,500,000.00</b>

**Note:** The unit rates and costs presented herein are for estimating purposes only. The actual contracted rates will be invoiced in accordance with the individual trade contract bid packages that will be issued as part of this contract.



**BUDGET BREAKDOWN - SEGMENT ONE EAST SIDE**

**Client:** Mr. Kurt Corrigan  
 Village of Orland Park  
 14700 Ravinia Avenue  
 Orland Park, Illinois 60462  
**Phone:** 708-403-6150  
**Email:** kcorrigan@orland-park.il.us

1.00	LANDSCAPING	QUANTITY	UNIT	UNIT PRICE	TOTAL
1.10	<b>GROUNDCOVER</b>				
1.11	Sodding, Salt Tolerant	2,000.0	SY	\$ 4.50	\$ 9,000.00
1.12	Seed & Blanket Installation	9,000.0	SY	\$ 1.50	\$ 13,500.00
1.13	Topsoil Excavation & Placement 6.0"	2,000.0	CY	\$ 15.00	\$ 30,000.00
1.20	<b>PLANT BEDS</b>				
1.21	Topsoil Furnish & Place 24" (Raised Median)	0.0	SY	\$ 18.00	\$ -
1.22	1" Compost (Raised Median)	0.0	SY	\$ 1.85	\$ -
1.23	Topsoil Furnish & Place 5" (Plant Beds)	0.0	SY	\$ 4.00	\$ -
1.24	1" Compost (Plant Beds)	0.0	SY	\$ 1.85	\$ -
1.25	3.0" Hardwood Mulch	0.0	SY	\$ 5.00	\$ -
1.26	Underdrain Installation	0.0	LF	\$ 18.00	\$ -
1.30	<b>SHADE TREE INSTALLATION</b>				
1.31	SHA - Gleditsia triacanthos in. 'Shademaster' (2.5" DBH)	37.0	EACH	\$ 290.00	\$ 10,730.00
1.32	QRB - Quercus rubra (2.5" DBH)	4.0	EACH	\$ 325.00	\$ 1,300.00
1.33	ABM - Acer x freemanii 'Jeffersred' (AB) (2.5" DBH)	35.0	EACH	\$ 295.00	\$ 10,325.00
1.34	AFA - Acer x freemanii 'Armstrong' (AM) (2.5" DBH)	13.0	EACH	\$ 275.00	\$ 3,575.00
1.35	UVF - Ulmus americana 'Valley Forge' (2.5" DBH)	31.0	EACH	\$ 300.00	\$ 9,300.00
1.36	BUL - Tilia americana 'Boulevard' (2.5" DBH)	23.0	EACH	\$ 275.00	\$ 6,325.00
1.37	GPS - Ginkgo biloba 'Princeton Sentry' (2.5" DBH)	12.0	EACH	\$ 420.00	\$ 5,040.00
1.40	<b>ORNAMENTAL TREE INSTALLATION</b>				
1.41	PCR - Prunus virginiana 'Canada Red' (2.5" DBH)	11.0	EACH	\$ 275.00	\$ 3,025.00
1.42	MDW - Malus x 'Donald Wyman' (2.5" DBH)	0.0	EACH	\$ 250.00	\$ -
1.43	TCH - Crataegus crus-galli inermis (2.5" DBH)	0.0	EACH	\$ 200.00	\$ -
1.44	MLA - Malus 'Adams' (2.5" DBH)	5.0	EACH	\$ 250.00	\$ 1,250.00
1.50	<b>EVERGREEN TREE INSTALLATION</b>				
1.51	BHS - Picea glauca 'Densata' 8.0'	0.0	EACH	\$ 250.00	\$ -
1.60	<b>SHRUBS, GRASSES &amp; PERENNIALS</b>				
1.61	Deciduous Shrub - Medium	15.0	EACH	\$ 40.00	\$ 600.00
1.62	Deciduous - Small	0.0	EACH	\$ 20.00	\$ -
1.63	Grasses - Large	0.0	EACH	\$ 15.00	\$ -
1.64	Grasses - Small	0.0	EACH	\$ 12.00	\$ -
1.65	Perennials	0.0	SF	\$ 7.00	\$ -
1.70	<b>ADDITIONAL ITEMS</b>				
1.71	Supply Planting Soil for Trees (.40CY / EACH)	62.0	CY	\$ 50.00	\$ 3,100.00
1.72	Spoil Removal & Disposal	62.0	CY	\$ 35.00	\$ 2,170.00
1.73	Plant Establishment (1 YEAR)	0.33	LSUM	\$ 40,000.00	\$ 13,200.00
1.74	Electrical System Complete	0.25	LSUM	\$ 150,000.00	\$ 37,500.00
1.75	Irrigation System Complete	0.15	LSUM	\$ 300,000.00	\$ 45,000.00
				<b>SUBTOTAL</b>	<b>\$ 204,940.00</b>
2.00	<b>HARDSCAPE &amp; PAVERS</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL</b>
2.10	<b>SITE AMENITIES</b>				
2.11	Ornamental Fence - 4.0'	0.0	LF	\$ 50.00	\$ -
2.12	Ornamental Fence - 18"	58.0	LF	\$ 50.00	\$ 2,900.00
2.20	<b>MEDIAN/PARKWAY BRICK PAVERS</b>				
2.21	Median Carrage Walk (2.0' Wide)	0.0	SF	\$ 8.00	\$ -
2.22	Median Paver Band	0.0	SF	\$ 8.00	\$ -
2.23	Paver Edge	0.0	LF	\$ 4.00	\$ -
2.24	4" PCC Base Course W/ 5" Agg. Base	0.0	SF	\$ 5.75	\$ -
2.25	Aggregate Base Installation Complete (6.0")	0.0	SY	\$ 9.00	\$ -
2.30	<b>INTERSECTION CORNERS</b>				
2.31	Herringbone Paver Type 'B'	850.0	SF	\$ 10.00	\$ 8,500.00
2.32	4" PCC Base Course W/ 5" Agg. Base	850.0	SF	\$ 5.30	\$ 4,505.00
2.33	Aggregate Base Installation Complete (6.0")	0.0	SY	\$ 9.00	\$ -
2.34	Standard 5" PCC Walk W/ 6" Aggregate Base	0.0	SF	\$ 6.00	\$ -
2.35	Colored 5" PCC Walk W/ 6" Aggregate Base	265.0	SF	\$ 9.00	\$ 2,385.00
				<b>SUBTOTAL</b>	<b>\$ 18,290.00</b>



**BUDGET BREAKDOWN - SEGMENT ONE EAST SIDE**

**Client:** Mr. Kurt Corrigan  
 Village of Orland Park  
 14700 Ravinia Avenue  
 Orland Park, Illinois 60462

**Phone:** 708-403-6150

**Email:** kcorrigan@orland-park.il.us

3.00	MONUMENTATION & WALLS	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>3.10</b>	<b>PRECAST</b>				
3.11	Medallion - 24" x 24" Median Column	0.0	EACH	\$ 175.00	\$ -
3.12	Ledge - Monument/ Wall/ Planter Urn Base	0.0	LF	\$ 40.00	\$ -
3.13	Ledge - Standard and Secondary Column	96.0	LF	\$ 40.00	\$ 3,840.00
3.14	8" Precast PCC Veneer - Median Wall	0.0	LF	\$ 50.00	\$ -
3.15	Concrete Veneer - Monument Wall	76.0	LF	\$ 50.00	\$ 3,800.00
3.16	Concrete Veneer - Median Column	0.0	LF	\$ 50.00	\$ -
3.17	Cap - Standard/ Secondary/ Median Columns	4.0	EACH	\$ 850.00	\$ 3,400.00
3.18	Cap - Monument/ Median Walls	38.0	LF	\$ 55.00	\$ 2,090.00
3.19	Panel Inset Sign	2.0	EACH	\$ 1,200.00	\$ 2,400.00
<b>3.20</b>	<b>LIMESTONE</b>				
3.21	Machine Smooth - Column Veneer	96.0	SF	\$ 105.00	\$ 10,080.00
<b>3.30</b>	<b>BRICK VENEER</b>				
3.31	Median Walls	0.0	SF	\$ 90.00	\$ -
3.32	Median Columns	0.0	SF	\$ 90.00	\$ -
3.33	Monument Columns	140.0	SF	\$ 90.00	\$ 12,600.00
3.34	Monument Walls	350.0	SF	\$ 90.00	\$ 31,500.00
3.36	Formliner Wall Stained	4,000.0	SF	\$ 12.00	\$ 48,000.00
3.37	Anti Graffiti Coating - Formliner Wall	4,000.0	SF	\$ 2.50	\$ 10,000.00
3.38	Anti Graffiti Coating - Masonry Wall	490.0	SF	\$ 2.50	\$ 1,225.00
<b>3.40</b>	<b>STRUCTURAL CONCRETE</b>				
3.41	PCC Wall & Footing	13.0	CY	\$ 1,000.00	\$ 13,000.00
				<b>SUBTOTAL</b>	<b>\$ 141,935.00</b>
4.00	GENERAL CONDITIONS	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>4.10</b>	<b>DESIGN SERVICES</b>				
4.11	Layout Erosion Cntrl & Set Base Station	1.0	LSUM	\$ 4,500.00	\$ 4,500.00
4.12	Layout Plant Material	0.33	LSUM	\$ 5,000.00	\$ 1,650.00
4.13	Layout Hardscape	0.25	LSUM	\$ 20,000.00	\$ 5,000.00
4.14	LA Design Phase Services	0.10	LSUM	\$ 84,000.00	\$ 8,400.00
<b>4.20</b>	<b>CONSTRUCTION SERVICES</b>				
4.21	Site Supervision / RE Services & Coordination	0.10	LSUM	\$ 1,200,000.00	\$ 120,000.00
	4.21.a Site Superintendent				
	4.21.b Project / Resident Engineer				
	4.21.c Project Estimator (bid packaging)				
	4.21.d Estimating Technician (qty take-off, exhibits)				
	4.21.e Contract Administrator (monthly trade invoicing)				
4.22	Performance & Payment Bond	0.33	LSUM	\$ 35,000.00	\$ 11,550.00
4.23	Testing	0.10	LSUM	\$ 25,000.00	\$ 2,500.00
4.24	Staging/Storage Yard	0.10	LSUM	\$ 150,000.00	\$ 15,000.00
4.25	IDOT Contractor Provisions	1.00	LSUM	\$ 20,000.00	\$ 20,000.00
4.26	Record Grading & Utility Drawings	0.33	LSUM	\$ 10,000.00	\$ 3,300.00
4.27	Temporary Site Protection Fencing	1,000.0	LF	\$ 6.00	\$ 6,000.00
4.28	Traffic Control & Signage	0.33	LSUM	\$ 100,000.00	\$ 33,000.00
4.29	Electronic Message Boards Full Duration	1.0	EACH	\$ 15,000.00	\$ 15,000.00
4.30	Site Accessibility (Railings, Ramps, Etc.)	1.0	LSUM	\$ 10,000.00	\$ 10,000.00
4.31	Site Sanitary Facilities	9.0	MTH	\$ 350.00	\$ 3,150.00
4.32	Erosion Control Provisions	1.0	LSUM	\$ 15,000.00	\$ 15,000.00
4.33	Dust Control	0.33	LSUM	\$ 15,000.00	\$ 4,950.00
4.34	Street Sweeping	150.0	HOUR	\$ 120.00	\$ 18,000.00
				<b>SUBTOTAL</b>	<b>\$ 297,000.00</b>



**BUDGET BREAKDOWN - SEGMENT TWO EAST SIDE**

**Client:** Mr. Kurt Corrigan  
 Village of Orland Park  
 14700 Ravinia Avenue  
 Orland Park, Illinois 60462  
**Phone:** 708-403-6150  
**Email:** kcorrigan@orland-park.il.us

1.00	LANDSCAPING	QUANTITY	UNIT	UNIT PRICE	TOTAL
1.10	<b>GROUNDCOVER</b>				
	1.11 Sodding, Salt Tolerant	2,000.0	SY	\$ 4.50	\$ 9,000.00
	1.12 Seed & Blanket Installation	13,000.0	SY	\$ 1.50	\$ 19,500.00
	1.13 Topsoil Excavation & Placement 6.0"	3,000.0	CY	\$ 15.00	\$ 45,000.00
1.20	<b>PLANT BEDS</b>				
	1.21 Topsoil Furnish & Place 24" (Raised Median)	0.0	SY	\$ 18.00	\$ -
	1.22 1" Compost (Raised Median)	0.0	SY	\$ 1.85	\$ -
	1.23 Topsoil Furnish & Place 5" (Plant Beds)	0.0	SY	\$ 4.00	\$ -
	1.24 1" Compost (Plant Beds)	0.0	SY	\$ 1.85	\$ -
	1.25 3.0" Hardwood Mulch	0.0	SY	\$ 5.00	\$ -
	1.26 Underdrain Installation	0.0	LF	\$ 18.00	\$ -
1.30	<b>SHADE TREE INSTALLATION</b>				
	1.31 SHA - Gleditsia triacanthos in. 'Shademaster'	27.0	EACH	\$ 290.00	\$ 7,830.00
	1.32 QRB - Quercus rubra	6.0	EACH	\$ 325.00	\$ 1,950.00
	1.33 ABM - Acer x freemanii 'Jeffersred'	33.0	EACH	\$ 295.00	\$ 9,735.00
	1.34 AFA - Acer x freemanii 'Armstrong'	6.0	EACH	\$ 275.00	\$ 1,650.00
	1.35 UVF - Ulmus americana 'Valley Forge'	19.0	EACH	\$ 300.00	\$ 5,700.00
	1.36 BUL - Tilia americanana 'Boulevard'	20.0	EACH	\$ 275.00	\$ 5,500.00
	1.37 GPS - Ginkgo biloba 'Princeton Sentry'	4.0	EACH	\$ 420.00	\$ 1,680.00
1.40	<b>ORNAMENTAL TREE INSTALLATION</b>				
	1.41 PCR - Prunus virginiana 'Canada Red'	0.0	EACH	\$ 275.00	\$ -
	1.42 MDW - Malus x 'Donald Wyman'	0.0	EACH	\$ 250.00	\$ -
	1.43 TCH - Crataegus crus-galli inermis	0.0	EACH	\$ 200.00	\$ -
	1.44 MLA - Malus 'Adams'	0.0	EACH	\$ 250.00	\$ -
1.50	<b>SHRUBS, GRASSES &amp; PERENNIALS</b>				
	1.51 Deciduous - Small	39.0	EACH	\$ 20.00	\$ 780.00
	1.52 Evergreen - Medium	17.0	EACH	\$ 45.00	\$ 765.00
	1.53 Grasses - Large	209.0	EACH	\$ 15.00	\$ 3,135.00
	1.54 Grasses - Small	0.0	EACH	\$ 12.00	\$ -
	1.55 Perennials	195.0	SF	\$ 7.00	\$ 1,365.00
1.60	<b>ADDITIONAL ITEMS</b>				
	1.61 Supply Planting Soil for Trees (.40CY / EACH)	46.0	CY	\$ 50.00	\$ 2,300.00
	1.62 Spoil Removal & Disposal	46.0	CY	\$ 35.00	\$ 1,610.00
	1.63 Furnish & Install Structural Soil	275.0	CY	\$ 110.00	\$ 30,250.00
	1.64 Plant Establishment (1 YEAR)	0.33	LSUM	\$ 60,000.00	\$ 19,800.00
	1.65 Electrical System Complete	0.25	LSUM	\$ 250,000.00	\$ 62,500.00
	1.66 Irrigation System Complete	0.15	LSUM	\$ 400,000.00	\$ 60,000.00
				<b>SUBTOTAL</b>	<b>\$ 290,050.00</b>
2.00	<b>HARDSCAPE &amp; PAVERS</b>				
2.10	<b>SITE AMENITIES</b>				
	2.11 Bench	0.0	EACH	\$ 1,800.00	\$ -
	2.12 Ornamental Fence - 4'	74.0	LF	\$ 50.00	\$ 3,700.00
	2.13 Ornamental Fence - 18"	77.0	LF	\$ 35.00	\$ 2,695.00
	2.14 Tree Paver Grate - 48"	72.0	EACH	\$ 1,500.00	\$ 108,000.00
	2.15 Trash Receptacles	0.0	EACH	\$ 1,400.00	\$ -
	2.16 Precast Planter Urn	0.0	EACH	\$ 2,000.00	\$ -
2.20	<b>MEDIAN/PARKWAY BRICK PAVERS</b>				
	2.21 Median Currence Walk (2.0' Wide)	0.0	SF	\$ 8.00	\$ -
	2.22 Median Paver Band	0.0	SF	\$ 8.00	\$ -
	2.23 Parkway Paver Bands	17,600.0	SF	\$ 8.00	\$ 140,800.00
	2.24 Parkway Currence Walk	24,700.0	SF	\$ 8.00	\$ 197,600.00
	2.25 8"x12" PCC Edge Restraint (Doweled)	550.0	LF	\$ 18.00	\$ 9,900.00
	2.26 Paver Edge	0.0	LF	\$ 4.00	\$ -
	2.27 4" PCC Base Course W/ 5" Agg. Base	42,300.0	SF	\$ 5.30	\$ 224,190.00
	2.25 Aggregate Base Installation Complete (6.0")	0.0	SY	\$ 9.00	\$ -
2.30	<b>INTERSECTION CORNERS</b>				
	2.31 Herringbone Paver Type 'B'	1,275.0	SF	\$ 10.00	\$ 12,750.00
	2.32 4" PCC Base Course W/ 5" Agg. Base	1,275.0	SF	\$ 5.30	\$ 6,757.50
	2.33 Aggregate Base Installation Complete (6.0")	0.0	SY	\$ 9.00	\$ -
	2.34 Standard 5" PCC Walk W/ 6" Aggregate Base	0.0	SF	\$ 6.00	\$ -
	2.32 Colored 5" PCC Walk W/ 6" Aggregate Base	1,650.0	SF	\$ 9.00	\$ 14,850.00
				<b>SUBTOTAL</b>	<b>\$ 721,242.50</b>





**BUDGET BREAKDOWN - SEGMENT TWO EAST SIDE**

**Client:** Mr. Kurt Corrigan  
 Village of Orland Park  
 14700 Ravinia Avenue  
 Orland Park, Illinois 60462  
**Phone:** 708-403-6150  
**Email:** kcorrigan@orland-park.il.us

3.00 MONUMENTATION & WALLS		QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>3.10 PRECAST</b>					
3.11	Medallion - 2' x 2' Primary Monument	0.0	EACH	\$ 500.00	\$ -
3.12	Medallion - 12.5"X12.5" Median Column	0.0	EACH	\$ 175.00	\$ -
3.13	Ledge - Monument/ Wall/ Planter Urn Base	0.0	LF	\$ 40.00	\$ -
3.14	Ledge - Primary Monument	154.0	LF	\$ 40.00	\$ 6,160.00
3.15	Ledge - Standard and Secondary Column	160.0	LF	\$ 40.00	\$ 6,400.00
3.16	Concrete Veneer - Median Wall	0.0	LF	\$ 50.00	\$ -
3.17	Concrete Veneer - Monument Wall	154.0	LF	\$ 50.00	\$ 7,700.00
3.18	Concrete Veneer - Median Column	0.0	LF	\$ 50.00	\$ -
3.19	Concrete Veneer - Secondary Column	48.0	LF	\$ 50.00	\$ 2,400.00
3.20	Cap - Standard/ Secondary/ Median Columns	10.0	EACH	\$ 850.00	\$ 8,500.00
3.21	Cap - Monument/ Median Wall	125.0	LF	\$ 55.00	\$ 6,875.00
3.22	Cap - Planter Urn Base	0.0	EACH	\$ 3,500.00	\$ -
3.23	Panel Inset Sign	0.0	EACH	\$ 1,200.00	\$ -
<b>3.30 LIMESTONE</b>					
3.31	Machine Smooth - Column Veneer	64.0	SF	\$ 105.00	\$ 6,720.00
3.32	Machine Smooth - Planter Wall Veneer	84.0	SF	\$ 105.00	\$ 8,820.00
3.33	Rockface Finish - Primary Monument	0.0	SF	\$ 120.00	\$ -
<b>3.40 BRICK VENEER</b>					
3.41	Median Walls	0.0	SF	\$ 90.00	\$ -
3.42	Median Columns	0.0	SF	\$ 90.00	\$ -
3.43	Monument Columns	400.0	SF	\$ 90.00	\$ 36,000.00
3.44	Monument Walls	640.0	SF	\$ 90.00	\$ 57,600.00
3.45	Planter Urn Base	0.0	SF	\$ 90.00	\$ -
3.46	Primary Monument Aluminum Cap	0.0	EACH	\$ 17,000.00	\$ -
3.47	Primary Monument LED light, Electrical and Controller	0.0	LSUM	\$ 5,000.00	\$ -
3.48	Formliner Wall Stained	8,000.0	SF	\$ 12.00	\$ 96,000.00
3.49	Anti Graffiti Coating - Formliner Wall	8,000.0	SF	\$ 2.50	\$ 20,000.00
3.50	Anti Graffiti Coating - Masonry Wall	1,040.0	SF	\$ 2.50	\$ 2,600.00
<b>3.60 STRUCTURAL CONCRETE</b>					
3.61	PCC Wall & Footing - Median Walls	24.0	CY	\$ 1,000.00	\$ 24,000.00
				<b>SUBTOTAL</b>	<b>\$ 289,775.00</b>
4.00 GENERAL CONDITIONS		QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>4.10 DESIGN SERVICES</b>					
4.11	Layout Erosion Cntrl & Set Base Station	1.0	LSUM	\$ 4,500.00	\$ 4,500.00
4.12	Layout Plant Material	0.33	LSUM	\$ 5,000.00	\$ 1,650.00
4.13	Layout Hardscape	0.25	LSUM	\$ 40,000.00	\$ 10,000.00
4.14	LA Design Phase Services	0.10	LSUM	\$ 84,000.00	\$ 8,400.00
<b>4.20 CONSTRUCTION SERVICES</b>					
4.21	Site Supervision / RE Services & Coordination	0.10	LSUM	\$ 1,200,000.00	\$ 120,000.00
	4.21.a Site Superintendent				
	4.21.b Project / Resident Engineer				
	4.21.c Project Estimator (bid packaging)				
	4.21.d Estimating Technician (qty take-off, exhibits)				
	4.21.e Contract Administrator (monthly trade invoicing)				
4.22	Performance & Payment Bond	0.33	LSUM	\$ 35,000.00	\$ 11,550.00
4.23	Testing	0.10	LSUM	\$ 25,000.00	\$ 2,500.00
4.24	Staging/Storage Yard	0.10	LSUM	\$ 150,000.00	\$ 15,000.00
4.25	IDOT Contractor Provisions	1.00	LSUM	\$ 20,000.00	\$ 20,000.00
4.26	Record Grading & Utility Drawings	0.33	LSUM	\$ 10,000.00	\$ 3,300.00
4.27	Temporary Site Protection Fencing	4,000.0	LF	\$ 6.00	\$ 24,000.00
4.28	Traffic Control & Signage	0.33	LSUM	\$ 125,000.00	\$ 41,250.00
4.29	Electronic Message Boards Full Duration	0.0	EACH	\$ 15,000.00	\$ -
4.30	Site Accessibility (Railings, Ramps, Etc.)	1.0	LSUM	\$ 10,000.00	\$ 10,000.00
4.31	Site Sanitary Facilities	9.0	MTH	\$ 350.00	\$ 3,150.00
4.32	Erosion Control Provisions	1.0	LSUM	\$ 15,000.00	\$ 15,000.00
4.33	Dust Control	0.33	LSUM	\$ 15,000.00	\$ 4,950.00
4.34	Street Sweeping	150.0	HOUR	\$ 120.00	\$ 18,000.00
				<b>SUBTOTAL</b>	<b>\$ 313,250.00</b>



**BUDGET BREAKDOWN - SEGMENT THREE EAST SIDE**

**Client:** Mr. Kurt Corrigan  
 Village of Orland Park  
 14700 Ravinia Avenue  
 Orland Park, Illinois 60462  
**Phone:** 708-403-6150  
**Email:** kcorrigan@orland-park.il.us

1.00	LANDSCAPING	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1.10</b>	<b>GROUNDCOVER</b>				
1.11	Sodding, Salt Tolerant	2,000.0	SY	\$ 4.50	\$ 9,000.00
1.12	Seed & Blanket Installation	6,000.0	SY	\$ 1.50	\$ 9,000.00
1.13	Topsoil Excavation & Placement 6.0"	2,000.0	CY	\$ 15.00	\$ 30,000.00
<b>1.20</b>	<b>PLANT BEDS</b>				
1.21	Topsoil Furnish & Place 5" (Plant Beds)	30.0	SY	\$ 4.00	\$ 120.00
1.22	1" Compost (Plant Beds)	30.0	SY	\$ 1.85	\$ 55.50
1.23	3.0" Hardwood Mulch	30.0	SY	\$ 5.00	\$ 150.00
<b>1.30</b>	<b>SHADE TREE INSTALLATION</b>				
1.31	SHA - Gleditsia triacanthos in. 'Shademaster'	9.0	EACH	\$ 290.00	\$ 2,610.00
1.32	QRB - Quercus rubra	2.0	EACH	\$ 325.00	\$ 650.00
1.33	ABM - Acer x freemanii 'Jeffersred'	21.0	EACH	\$ 295.00	\$ 6,195.00
1.34	AFA - Acer x freemanii 'Armstrong'	0.0	EACH	\$ 275.00	\$ -
1.35	UVF - Ulmus americana 'Valley Forge'	19.0	EACH	\$ 300.00	\$ 5,700.00
1.36	BUL - Tilia americanana 'Boulevard'	10.0	EACH	\$ 275.00	\$ 2,750.00
1.37	GPS - Ginkgo biloba 'Princeton Sentry'	5.0	EACH	\$ 420.00	\$ 2,100.00
<b>1.40</b>	<b>ORNAMENTAL TREE INSTALLATION</b>				
1.41	PCR - Prunus virginiana 'Canada Red'	0.0	EACH	\$ 275.00	\$ -
1.42	MDW - Malus x 'Donald Wyman'	6.0	EACH	\$ 250.00	\$ 1,500.00
1.43	TCH - Crataegus crus-galli inermis	0.0	EACH	\$ 200.00	\$ -
1.44	MLA - Malus 'Adams'	0.0	EACH	\$ 250.00	\$ -
<b>1.50</b>	<b>EVERGREEN TREE INSTALLATION</b>				
1.51	BHS - Picea glauca 'Densata'	35.0	EACH	\$ 250.00	\$ 8,750.00
<b>1.60</b>	<b>SHRUBS, GRASSES &amp; PERENNIALS</b>				
1.61	Deciduous - Large	33.0	EACH	\$ 45.00	\$ 1,485.00
1.62	Deciduous - Small	0.0	EACH	\$ 20.00	\$ -
1.63	Evergreen - Medium	8.0	EACH	\$ 45.00	\$ 360.00
1.64	Evergreen - Small	0.0	EACH	\$ 35.00	\$ -
1.65	Grasses - Large	170.0	EACH	\$ 15.00	\$ 2,550.00
1.66	Grasses - Small	41.0	EACH	\$ 12.00	\$ 492.00
<b>1.70</b>	<b>ADDITIONAL ITEMS</b>				
1.71	Supply Planting Soil for Trees (.40CY / EACH)	35.6	CY	\$ 50.00	\$ 1,780.00
1.72	Spoil Removal & Disposal	35.6	CY	\$ 35.00	\$ 1,246.00
1.73	Furnish & Install Structural Soil	0.0	CY	\$ 110.00	\$ -
1.74	Plant Establishment (1 YEAR)	0.3	LSUM	\$ 40,000.00	\$ 13,200.00
1.75	Electrical System Complete	0.3	LSUM	\$ 150,000.00	\$ 37,500.00
1.76	Irrigation System Complete	0.2	LSUM	\$ 250,000.00	\$ 37,500.00
				<b>SUBTOTAL</b>	<b>\$ 174,693.50</b>
<b>2.00</b>	<b>HARDSCAPE &amp; PAVERS</b>				
<b>2.10</b>	<b>SITE AMENITIES</b>				
2.11	Ornamental Fence - 4'	166.0	LF	\$ 50.00	\$ 8,300.00
2.12	Ornamental Fence - 18"	37.0	LF	\$ 35.00	\$ 1,295.00
2.13	Tree Paver Grate - 48"	15.0	EACH	\$ 1,500.00	\$ 22,500.00
2.14	Trash Receptacles	0.0	EACH	\$ 1,400.00	\$ -
<b>2.20</b>	<b>MEDIAN/PARKWAY BRICK PAVERS</b>				
2.21	Median Carrage Walk (2.0' Wide)	0.0	SF	\$ 10.50	\$ -
2.22	Median Paver Band	0.0	SF	\$ 10.50	\$ -
2.23	Parkway Paver Bands	73.0	SF	\$ 10.50	\$ 766.50
2.24	Parkway Carrage Walk	0.0	SF	\$ 10.50	\$ -
2.25	8"x12" PCC Edge Restraint (Doweled)	86.0	LF	\$ 18.00	\$ 1,548.00
2.26	Paver Edge	0.0	LF	\$ 4.00	\$ -
2.27	4" PCC Base Course W/ 5" Agg. Base	73.0	SF	\$ 5.30	\$ 386.90
2.28	Aggregate Base Installation Complete (6.0")	0.0	SY	\$ 9.00	\$ -
<b>2.30</b>	<b>INTERSECTION CORNERS</b>				
2.31	Herringbone Paver Type 'B'	1,450.0	SF	\$ 10.00	\$ 14,500.00
2.32	4" PCC Base Course W/ 5" Agg. Base	1,450.0	SF	\$ 5.30	\$ 7,685.00
2.33	Aggregate Base Installation Complete (6.0")	0.0	SY	\$ 9.00	\$ -
2.34	Standard 5" PCC Walk W/ 6" Aggregate Base	760.0	SF	\$ 6.00	\$ 4,560.00
2.35	Colored 5" PCC Walk W/ 6" Aggregate Base	154.0	SF	\$ 9.00	\$ 1,386.00
				<b>SUBTOTAL</b>	<b>\$ 62,927.40</b>



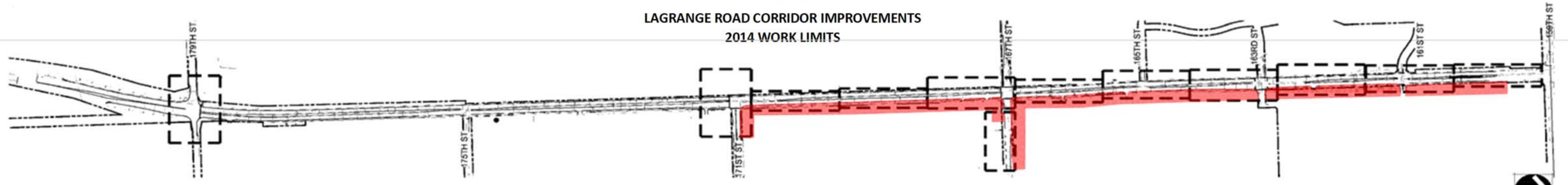
**BUDGET BREAKDOWN - SEGMENT THREE EAST SIDE**

**Client:** Mr. Kurt Corrigan  
 Village of Orland Park  
 14700 Ravinia Avenue  
 Orland Park, Illinois 60462  
**Phone:** 708-403-6150  
**Email:** kcorrigan@orland-park.il.us

3.00 MONUMENTATION & WALLS		QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>3.10 PRECAST</b>					
3.11	Ledge - Monument/ Wall/ Planter Urn Base	74.0	LF	\$ 40.00	\$ 2,960.00
3.12	Ledge - Standard and Secondary Column	160.0	LF	\$ 40.00	\$ 6,400.00
3.13	Concrete Veneer - Monument Wall	74.0	LF	\$ 50.00	\$ 3,700.00
3.14	Concrete Veneer - Secondary Column	64.0	LF	\$ 50.00	\$ 3,200.00
3.15	Cap - Standard/ Secondary/ Median Columns	10.0	EACH	\$ 850.00	\$ 8,500.00
3.16	Cap - Monument/ Median Wall	58.0	LF	\$ 55.00	\$ 3,190.00
<b>3.20 LIMESTONE</b>					
3.21	Machine Smooth - Column Veneer	32.0	SF	\$ 105.00	\$ 3,360.00
3.22	Machine Smooth - Planter Wall Veneer	42.0	SF	\$ 105.00	\$ 4,410.00
<b>3.30 BRICK VENEER</b>					
3.31	Monument Columns	400.0	SF	\$ 90.00	\$ 36,000.00
3.32	Monument Walls	333.0	SF	\$ 90.00	\$ 29,970.00
3.33	Primary Monument LED light, Electrical & Controller	0.0	LSUM	\$ 5,000.00	\$ -
3.34	Formliner Wall Stained	2,500.0	SF	\$ 12.00	\$ 30,000.00
3.35	Anti Graffiti Coating - Formliner Wall	2,500.0	SF	\$ 2.50	\$ 6,250.00
3.36	Anti Graffiti Coating - Masonry Wall	733.0	SF	\$ 2.50	\$ 1,832.50
<b>3.40 STRUCTURAL CONCRETE</b>					
3.41	PCC Wall & Footing - Median Walls	18.0	CY	\$ 1,000.00	\$ 18,000.00
				<b>SUBTOTAL</b>	<b>\$ 157,772.50</b>
4.00 GENERAL CONDITIONS		QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>4.10 DESIGN SERVICES</b>					
4.11	Layout Erosion Cntrl & Set Base Station	1.0	LSUM	\$ 4,500.00	\$ 4,500.00
4.12	Layout Plant Material	0.33	LSUM	\$ 5,000.00	\$ 1,650.00
4.13	Layout Hardscape	0.33	LSUM	\$ 20,000.00	\$ 6,600.00
4.14	LA Design Phase Services	0.10	LSUM	\$ 84,000.00	\$ 8,400.00
<b>4.20 CONSTRUCTION SERVICES</b>					
4.21	Site Supervision / RE Services & Coordination	0.10	LSUM	\$ 1,200,000.00	\$ 120,000.00
	4.21.a Site Superintendent				
	4.21.b Project / Resident Engineer				
	4.21.c Project Estimator (bid packaging)				
	4.21.d Estimating Technician (qty take-off, exhibits)				
	4.21.e Contract Administrator (monthly trade invoicing)				
4.22	Performance & Payment Bond	0.33	LSUM	\$ 35,000.00	\$ 11,550.00
4.23	Testing	0.10	LSUM	\$ 25,000.00	\$ 2,500.00
4.24	Staging/Storage Yard	0.10	LSUM	\$ 150,000.00	\$ 15,000.00
4.25	IDOT Contractor Provisions	1.00	LSUM	\$ 20,000.00	\$ 20,000.00
4.26	Record Grading & Utility Drawings	0.33	LSUM	\$ 10,000.00	\$ 3,300.00
4.27	Temporary Site Protection Fencing	1,000.0	LF	\$ 6.00	\$ 6,000.00
4.28	Traffic Control & Signage	0.33	LSUM	\$ 100,000.00	\$ 33,000.00
4.29	Electronic Message Boards Full Duration	1.0	EACH	\$ 15,000.00	\$ 15,000.00
4.30	Site Accessibility (Railings, Ramps, Etc.)	1.0	LSUM	\$ 10,000.00	\$ 10,000.00
4.31	Site Sanitary Facilities	9.0	MTH	\$ 350.00	\$ 3,150.00
4.32	Erosion Control Provisions	1.0	LSUM	\$ 15,000.00	\$ 15,000.00
4.33	Dust Control	0.33	LSUM	\$ 15,000.00	\$ 4,950.00
4.34	Street Sweeping	150.0	HOURL	\$ 120.00	\$ 18,000.00
				<b>SUBTOTAL</b>	<b>\$ 298,600.00</b>

# EXHIBIT B

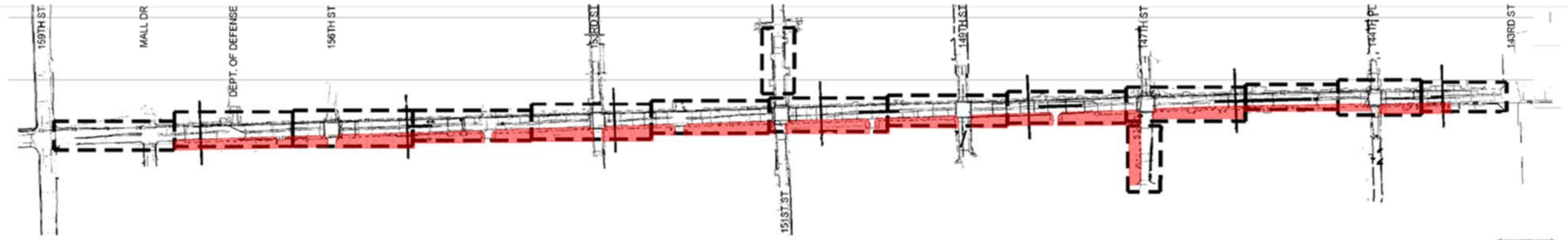
## LAGRANGE ROAD CORRIDOR IMPROVEMENTS 2014 WORK LIMITS



SEGMENT ONE



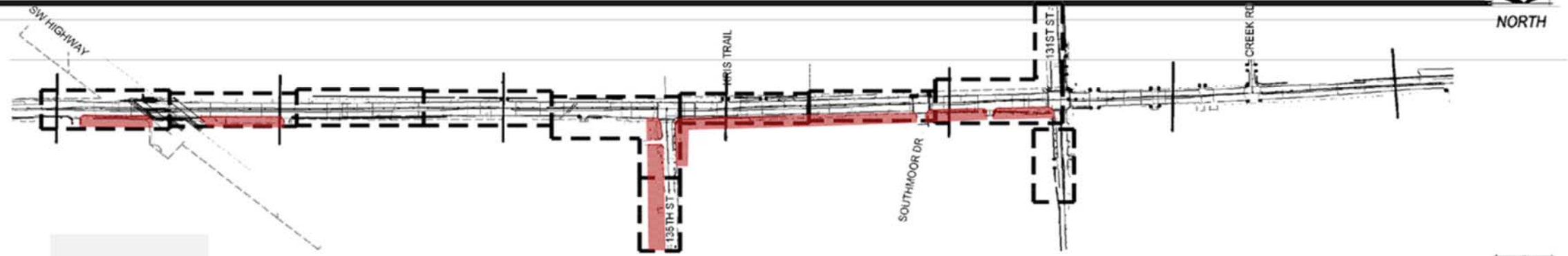
NORTH



SEGMENT TWO



NORTH



SEGMENT THREE



NORTH

Client: Engineer/Owner (2014) of Study: LAGRANGE ROAD CORRIDOR IMPROVEMENTS PROGRAM, 12/16/2013 09:28 AM