PROFESSIONAL SERVICES AGREEMENT

AMENDMENT NUMBER 6 DATED _____

Project Name: City of West Allis NR 216 Stormwater Permit Compliance

AECOM Project No.: 60309194

This Amendment to the Professional Services Agreement dated June 25, 2013 is by and between:

Client:

City of West Allis
7525 W. Greenfield Avenue
West Allis, WI 53214

and,

AECOM Technical Services, Inc. (ATS)
1555 North RiverCenter Drive, Suite 214
Milwaukee, Wisconsin 53212

Who agree as follows:

Amending the original contract with the scope of services in Attachment A of this amendment. The total contract value will increase $64,500 from $92,488 to $156,988. CLIENT will pay on a time and material basis not to exceed the sum of $156,988. ATS will invoice according to the per diem rates in effect at the time the services are executed.

In all other respects, the Agreement remains the same.

APPROVED FOR CLIENT	**APPROVED FOR AECOM**
By: _____	By: Thomas J. Holtan
Printed Name: _____	Printed Name: Thomas J. Holtan, P.E.
Title: _____	Title: Senior Project Manager
Date: _____	Date: 07/19/2018

ATTACHMENT A
AMENDED SCOPE OF SERVICES

2018 NR 216 Storm Water Compliance
City of West Allis
July 19, 2018

Project Background

The City of West Allis joined the Menomonee River Watershed Permit Group on November 30, 2012. Under that permit, the city is required to undertake certain activities related to city-wide stormwater pollution reduction practices. The City recently received two grants from Milwaukee Metropolitan Sewerage District for Stormwater Green Infrastructure practices to be designed in conjunction with two parking lot reconstruction projects - West Allis Public Library Parking Lot (approximately 80,000 s.f.) and the Downtown Business Parking Lots (approximately 21,000 s.f.).

The following tasks will be completed:

Services:

AECOM shall provide engineering design services for the survey and reconstruction of two City parking lots. More specifically, the West Allis Public Library Parking Lot (7421 W. National Ave.) and the Downtown Business Parking Lots (between 72nd and 73rd Streets, north of W. Greenfield Ave., and south of W. Madison St.). Design and survey limits are shown on the attached Figures 1-2.

1. Design Survey and Geotechnical Exploration:

1.1 Coordinate with City Staff to obtain benchmarks and survey control for the site and coordinate notification of property owners prior to initiating surveying.

1.2 Contact Digger's Hotline to have underground utilities marked prior to initiating topographic surveying.

1.3 Complete topographic survey of the project corridor, including rims and inverts of existing storm structures necessary for local drainage, and all existing utilities marked by Digger's Hotline.

1.4 Prepare survey basemap in CAD and reference to the current CAD drawing.

1.5 Stake and Conduct Soil Borings and Soils Analysis

a. Coordinate access to the site with the City of West Allis.

b. Prior to mobilization to the site, the drilling subcontractor will obtain public utility clearance at the individual boring locations through the Diggers Hotline public utility location service. AECOM will also coordinate with the City of West Allis to locate and mark any private utilities that may be present at the individual soil boring locations. An AECOM representative will mark the borings at least three (3) day in advance of drilling activities.

c. Mobilize a truck-mounted drill rig to complete six (6) soil borings at the West Allis Library location, and four (4) borings at the Downtown Business Parking Lot location. The location and elevation of the boreholes will be documented in our site survey work for the project. If underground utilities or overhead structures are located near a proposed boring location, AECOM will coordinate with the City of West Allis for offsetting the boring locations while maintaining minimum safe working clearances. If required, offset distances will be included on the soil borings in the final geotechnical report. AECOM assumes that the boring locations will be accessible by a truck mounted drill rig and no special precautions are required for work at the site. We have assumed no specialized training is needed and that no special considerations or requirements will be presented for drilling at the identified locations, such as for proximity to railroad rights-of-way or similar.

d. Advance the soil borings to a minimum termination depth of 15 feet, or to the point of practical refusal, whichever occurs sooner. If unsuitable soils are encountered at the proposed termination depths, the City of West Allis shall be contacted to discuss further action. Based on past projects, AECOM defines unsuitable soils as granular soils with a Standard Penetration Test (SPT) N-value of less than 10 or cohesive soils with an unconfined compressive strength of less than 500 pounds per square foot (measured in the field with a hand penetrometer). AECOM will provide a field geologist to oversee the borings, maintain boring logs, and coordinate site activities.

e. Obtain representative samples at 2.5-foot intervals to the planned boring termination depths in the borings. Soil samples will be obtained using split-barrel sampling techniques with a calibrated, automatic hammer in general accordance with ASTM D1586. If necessary, cohesive soil samples may be collected using thin walled Shelby tubes having a 3-inch diameter and in general accordance with ASTM D1587.

f. Provide a full-time, on-site, field person during the drilling operations to facilitate efficient progress of the subsurface investigation. The field staff will transport samples to the local AECOM office and/or subcontracted soils testing laboratory. Additionally, the field staff will coordinate site access, and utility clearance for the proposed soil boring locations.

g. Backfill and abandon the borehole in accordance with state regulations after completion. Excess auger cuttings/spoils will be abandoned on site at a location designated by the City of West Allis. Off-site transport or disposal of excess soil is not included.

h. Review and classify the retained samples from the soil borings in general accordance with the Unified Soil Classification System (USCS) as outlined in ASTM D2487 and ASTM D2488, and prepare final boring logs. Where cohesive soils are encountered, the unconfined compressive strength will be estimated using calibrated penetrometer tests. In granular soils, the internal angle of friction will be estimated based on engineering correlations with the SPT results obtained in-situ. Our base laboratory program will include a selection of the following routine classification and index tests to determine soil type and geotechnical parameters needed for design:

    1. Moisture content
    2. Unconfined Compressive Strength, as estimated by calibrated penetrometer

3. Atterberg limits
4. Grainsize distribution

1.6 Prepare a Geotechnical Engineering report for the site under the direction of a Professional Engineer registered in the State of Wisconsin. The geotechnical report will describe the subsurface exploration program and provide geologic characterizations of the soil, groundwater, and bedrock conditions encountered in the borings and those expected during construction. A boring location diagram showing final soil boring locations, detailed boring logs, and the results of all geotechnical field and laboratory tests will also be included in the final report. The geotechnical report will also provide recommendations for the pavement structure, infiltration characteristics of the soils and site grading for the proposed work at the site.

2. Project Administration/Meetings:

2.1 Provide project management services from contract approval to completion.

2.2 Attend one Kick Off meeting with Public Works and Library staff to discuss concept plans. The Kick Off meeting will verify scope, program, deliverables and milestone dates and can coincide with a site walk-through of both sites with the client / stakeholder team. At this visit we will discuss options for vehicular circulation, stormwater management, and landscape opportunities to identify city preferences to be incorporated into the concept plans.

2.3 Attend one Library Board Meeting at 60% completion to get feedback on concept plans. The concept plans (60% submittal), one for each site, prepared first for the client team and finalized for the Library Board Meeting will identify the areas or permeable pavement, general water flow and capture and planting areas to support stormwater objectives and overall enhancements. Another exhibit will highlight the recommended plant and permeable paver palette with precedent images based on Forestry and Public Works preferences.

2.4 Attend one Design Review Meeting at 90% completion to get feedback on items to be incorporated into the final plans and specifications.

3. Parking Lot Design

3.1 Prepare 60% concept plans, quantities, and opinion of probable costs, including a preliminary WinSLAMM Analysis showing the anticipated total suspended solids (TSS) and total phosphorus (TP) removal efficiency compared to existing conditions.

3.2 Prepare 90% construction plans, specifications, quantities, and opinion of probable costs, including an updated WinSLAMM Analysis Report. The plans will include:

a. Cover page;
b. Standard details, note, and abbreviations;
c. Demolition sheet(s) for each parking lot;
d. Staging Sheet for Public Library
e. Plan sheet(s) for each parking lot, including proposed striping, lighting, landscaping, and erosion control measures for each parking lot.

3.3 Coordinate any necessary utility modifications with affected utilities (e.g. water mains and/or services, sanitary sewer mains and/or laterals, underground and overhead electric, telephone, cable television lines, etc.).

3.4 Prepare final construction plans, specifications, quantities, and opinion of probable costs, including an updated WinSLAMM Analysis Report.

3.5 Assist with Bidding the project. Address contractor questions during the bidding process and issue any required addenda. Attend the bid opening, analyze the bids received, and prepare a Letter of Recommendation regarding award of the contract, including preparation of a bid tabulation.

Assumptions / Conditions

1. Survey of the existing parking lots will be conducted once property corners and existing utilities have been located.

2. The City will locate and mark all property corners, and city-owned utilities (e.g electrical service lines to existing lights, water mains, water services, sanitary sewer mains and laterals, storm sewer mains and laterals, etc.) in the project limits prior to surveying.

3. The City will prepare the Project Manual and post the bidding documents on www.questcdn.com.

4. Geotechnical Exploration assumptions:
   - We have assumed that parking stalls at, and near, the location of each boring will be vacant to allow immediate access to each boring location.
   - We have assumed that environmentally hazardous impacted soils, construction debris, obstructions, or extremely difficult drilling conditions will not be encountered while advancing the borings. In addition, rock coring costs have not been included. Should any of these conditions be encountered, AECOM is able to provide environmental compliance and oversight services at an additional cost.
   - Obtaining subsurface samples can be hazardous, particularly when the exact location and positioning of underground structures and utilities are unknown. AECOM will contact Diggers Hotline to clear public utilities; however, AECOM will require the City of West Allis to assess the proposed boring locations to clear private utilities and subsurface structures.
   - AECOM will not be liable for damages to unidentified or misidentified subsurface structures or utilities or any damage or contamination to the site or surrounding properties occurring as a result if unidentified or misidentified public or private subsurface structures and utilities.
   - Soil infiltration tests are currently not included in the parking lot sites due to cost and extent of anticipated disturbance. If soil infiltration tests are desired or required, this can be amended into the contract scope for an additional cost.

5. All submittals will be electronic. No hard copies are anticipated. Civil design documents will be provided in AutoCAD/Civil 3D.

6. The existing retaining wall in the northwest corner of the Downtown Business Parking Lot is intended to remain and won't need to have a replacement retaining wall designed. A small amount of time is allocated for specifying a replacement fence on top of the existing retaining wall and for aesthetic treatments to the retaining wall.

7. Wetland screening review is not included.

8. No local, regional, or state permit applications or related fees are included.

9. No irrigation design is included.

10. City will coordinate parking lot lighting replacement.

11. No traffic control plans for street traffic are required as part of the proposed construction for any of the locations (Staging plans only).

12. No municipal water or sanitary sewer impacts or design are required.

13. No renderings or 3D graphics are included.

14. Other site improvements (e.g. Library plaza / entry development, site furnishings, etc.) other than those noted above.

15. Delays / time extensions and significant budget and value engineering revisions shall be cause for additional services.

16. Construction Related Services are not included in the scope of this agreement, but can be provided as an additional service if requested.

Schedule:

Topographic Survey Completed by mid October 2018, dependent on contract award and weather
Meeting with PW and Library Staff – October 2018
60% Concept Plans – October/November 2018
Meeting with Library Board – November 2018
90% PS&E – January 2019
Advertise for Bid – February 2019
Bid Opening – March 2019
Letter of Recommendation and Bid Tab – March 2019

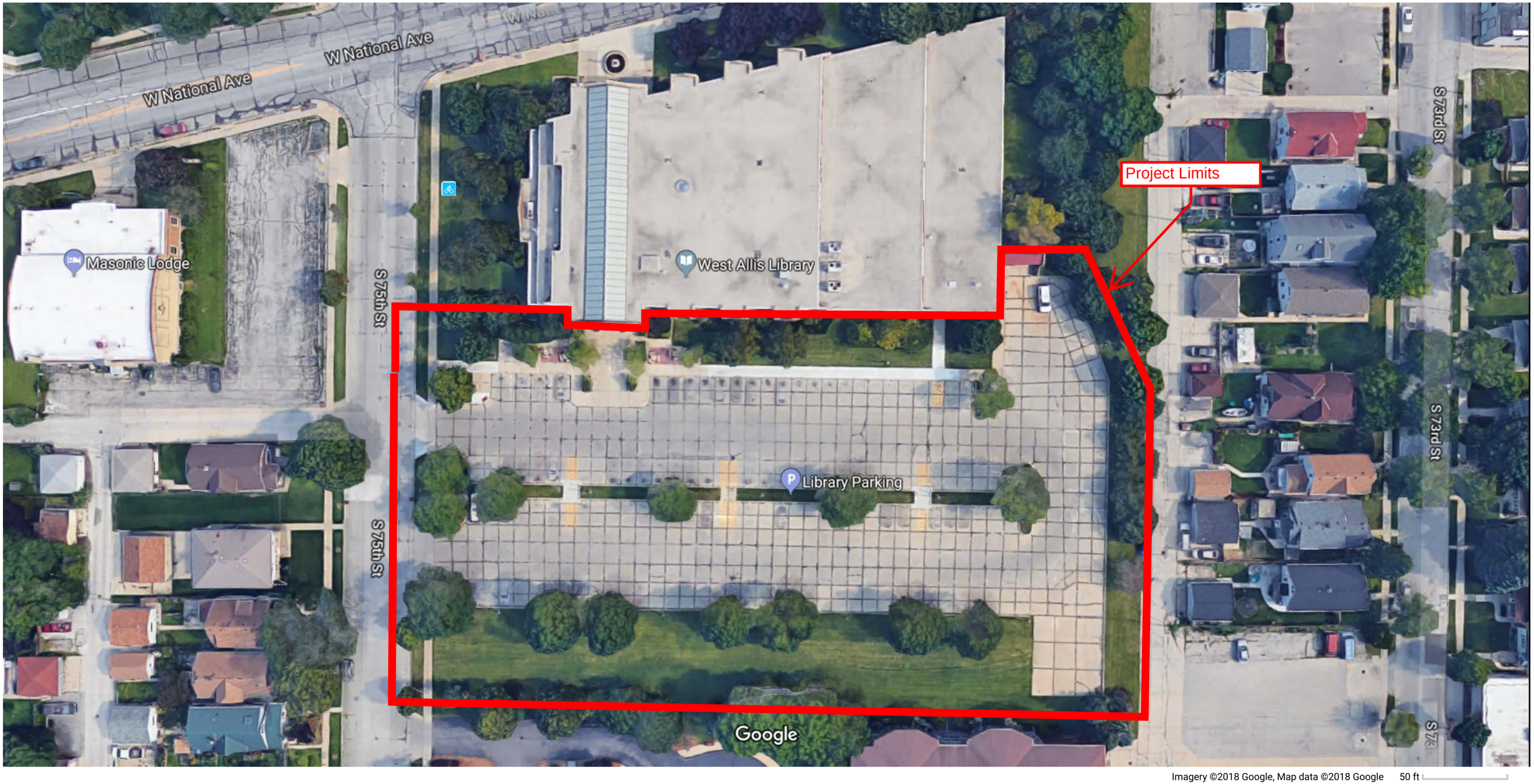
Deliverables:

1 electronic copy (pdf) of 60% plans & WinSLAMM Analysis Report
1 electronic copy (pdf) of 90% Plans, Specifications, Opinion of Probable Cost & updated WinSLAMM Analysis Report
1 electronic copy (pdf) of final plans, project manual, Opinion of Probable Cost, updated WinSLAMM Analysis Report & Baseline Report

Public Library and Downtown Business Parking Lot Reconstruction
City of West Allis, WI
Fee Table

Task #	Task Name	Fee
1	**Design Survey & Geotechnical Exploration**	**$7,100**
1.1	Coordination with City Staff on Benchmarks & Survey Control	$400
1.2	Digger's Hotline Coordination	$200
1.3	Topographic Survey	$1,800
1.4	Prepare Survey Basemap in CAD	$1,800
1.5	Stake and Conduct Soil Borings and Soils Analysis (10 borings total at average 15' depth)	$5,000
1.6	Geotechnical Exploration Report	$900
2	**Project Administration / Meetings**	**$11,000**
2.1	Project Management	$2,800
2.2	Kick Off Meeting with Library and Public Works Staff and Site Visit	$3,200
2.3	Library Board Meeting/60% Design Review Meeting	$4,000
2.4	90% Design Review meeting	$1,000
3	**Parking Lot Design**	**$46,400**
3.1	60% Concept Plans, Quantities, and Opinion of Probable Cost, including WinSLAMM Analysis	$22,800
3.2	90% Plans, Specifications, Quantities, Opinion of Probable Cost, including WinSLAMM Analysis Update	$13,900
3.3	Utility Coordination	$1,400
3.4	Final Plans, Specifications, & Estimate (Includes WinSLAMM Analysis Update & Baseline	$6,000
3.5	Bidding Assistance (Addenda and Recommendation of Award)	$2,300
	Total	**$64,500**

Google Maps West Allis Public Library Parking Lot Reconstruction



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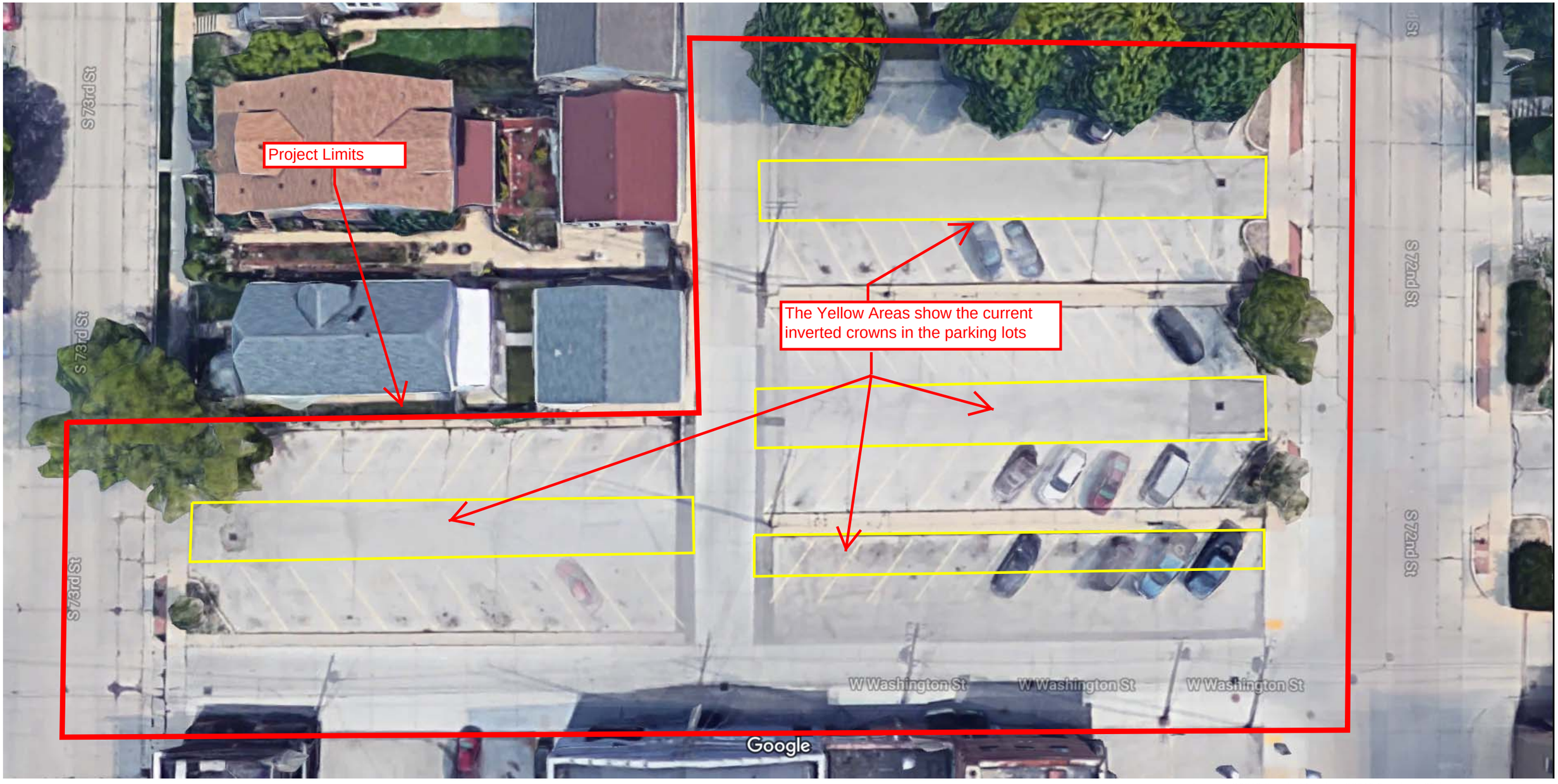
Google Maps Downtown Business Parking Lot Reconstruction



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