

CITY OF MARSHFIELD
2020
SANITARY SEWER LINING



MARSHFIELD

• The City in the Center •

Contract 2020-02

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SPECIAL PROVISIONS

FOR

CONTRACT 2020-02

**Sanitary Sewer Lining
PROJECT NO. 351796**

**CITY OF MARSHFIELD
WISCONSIN**

January 2020

**CITY OF MARSHFIELD
PUBLIC WORKS DEPARTMENT – ENGINEERING DIVISION
207 W 6th Street
MARSHFIELD, WISCONSIN 54449
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OFFICIAL NOTICE TO BIDDERS
CITY OF MARSHFIELD
2020 SANITARY SEWER LINING PROJECT No: 351796
CONTRACT 2020-02

Notice is given that the Board of Public Works will receive bids will be received until 4:00 PM; Monday, February 24th, 2020; this project is valued about \$2,100,000.

The QuestCDN eBidDoc Number for this project is: 6688141

Bids will then be reviewed, tabulated, and submitted to the Board of Public Works on Monday, March 2nd, 2020 for consideration and recommendation to the Common Council at their regular meeting on Tuesday, March 10th, 2020 for Award of Contract.

ESTIMATE OF PRINCIPAL ITEMS

1.	CIPP Lining 8" DIA	30,423 Linear Feet
2.	CIPP Lining 10" DIA	2,637 Linear Feet
3.	CIPP Lining 12" DIA	1,620 Linear Feet
4.	CIPP Lining 15" DIA	1,358 Linear Feet
5.	CIPP Lining 18" DIA	4,886 Linear Feet

Bid Security in an amount equal to five percent (5%) of the total amount of the bid shall be submitted with each bid and made out in the name of the City of Marshfield, Wisconsin, as a guarantee that, if the bid is accepted, the Bidder will execute and file the proper Contract and Performance Bond within twenty (20) days after award of the bid. Upon the execution of the Contract by the City, the Security will be released.

No Proposal may be withdrawn by the Bidder for a period of thirty (30) days following the date of the bid opening, within which time the Contract will be awarded by the Common Council.

Bidding Documents can be downloaded www.ci.marshfield.wi.us under Departments » Public Works » Engineering » 2017 Project Bidding or at www.questcdn.com under Login using QuestCDN #6688141 for a non-refundable charge of \$50.00. Contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in membership registration, downloading this digital project information and vBid Online Bid Submittal. To submit an vBid online bid (which is required for this project) you must download the project document file from QuestCDN which will add you to the plan holders list and gain you access to vBid Online Bidding.

Prospective bidders must be on the plan holders list will through QuestCDN for bids to be accepted. Bidders must be prequalified with the City of Marshfield, Board of Public Works to qualify to bid. Any and all addenda will also be posted to the QuestCDN web site. No plan holders list will be faxed.

The City of Marshfield, Wisconsin reserves the right to accept or reject any or all proposals, including, but not limited to, any or all proposals which are not responsive, to waive informalities in the bidding procedure and to award the Contract to the Bidder whom, in the opinion of said City, will be most advantageous to said City.

Letting of this Contract is subject to applicable provisions of the Wisconsin Statutes.

BOARD OF PUBLIC WORKS
MARSHFIELD, WISCONSIN
Daniel G. Knoeck, Secretary

PUBLISH: News Herald – February 8th & 15th, 2020 – LEGAL

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INFORMATION FOR BIDDING AND EXECUTION OF CONTRACT

1. INFORMATION AVAILABLE VIA 'QUESTCDN'

Bidding Documents can be downloaded www.ci.marshfield.wi.us under Departments » Public Works » Engineering » 2020 Project Bidding or at www.questcdn.com under Login using QuestCDN #6688141 for a non-refundable charge of \$50.00. Contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in membership registration, downloading this digital project information and vBid Online Bid Submittal. To submit a vBid online bid (which is required for this project) you must download the project document file from QuestCDN which will add you to the plan holders list and gain you access to vBid Online Bidding.

Due to the volume of information contained in the reports and videos. Those wishing to bid will have to request a portable hard drive from the city accompanied by a check for \$100 (deposit for the hard drive). Upon return of the hard drive the check will be returned. Please mail the deposit to:

Attn: City Engineer
 City of Marshfield
 Public Works Department – Engineering Division
 207 W 6th Street
 Marshfield, WI 54449

2. WAGE SCALE

This project is NOT subject to a prevailing wage determination. The Contractor shall furnish certified copies of his payroll for any period when requested by the Owner.

3. PREPARATION OF BID

For this project bids will **ONLY** be received and accepted via the online electronic bid service through QuestCDN.com. To access the electronic bid form, download the project documents and click the online bidding button at the top of advertisement.

A bid submitted by an individual shall be signed by the Bidder or by a duly authorized agent. A Bid submitted by a partnership shall be signed by a member or by a duly authorized agent thereof. A Bid submitted by a corporation shall be signed by an authorized officer or duly authorized agent of such corporation, and the Bid shall show the name of the state under the laws of which said corporation was chartered. The required signature shall, in all cases, appear in the space provided therefore on the correct bid documents.

4. SUBCONTRACTING

The Contractor will be permitted to sublet a portion of the Contract, but shall perform with his own organization, work amounting to at least 30 percent of the original Contract amount.

If the Contractor shall sublet any part of this Contract, the Contractor shall be as fully responsible to the Owner for the acts and omissions of his Subcontractor and of the persons either directly or indirectly employed by his Subcontractor as he is by acts or omissions of persons directly employed by himself. All Subcontractors, if any, shall be listed in the spaces provided on the Proposal Form and said list shall not be added to or altered without the written consent of the Owner.

5. FORMS TO BE INCLUDED AS THE 'BID'

Forms to be included by the Bidder and submitted to the Owner as the 'Bid' include the following:

- **On line bid Only**
- **Bid Security**
- **Full and Complete List of Subcontractors and Suppliers**

These forms/sections will be included online as part of the bid requirements. Prospective Bidders shall go through these sections and fill them out completely. Failure to do so may result in having your bid be considered non-responsive.

Note: Form/sections to be executed by the successful low bidder as the 'Contract' includes the Certificate of Insurance, Performance and Payment Bond, and Contract.

6. BID SECURITY

Bid Security in the amount of five percent (5%) of the bid shall be submitted with each bid. The City of Marshfield reserves the right to reject any or all bids, waive any irregularities or accept that bid which in the opinion of the owner will serve the best interest of the City.

If alternate bids are invited and submitted, the Proposal Guarantee shall cover the amount of the highest alternate.

7. QUANTITIES

The estimated quantities of work as shown on the plans or in the contract documents have been compiled for the purpose of comparing proposals and are believed to be reasonably accurate. The Owner reserves the right to increase quantities, decrease quantities, delete items of work or order extra work as discussed in the Standard Specifications (Section 1.2).

8. INTENT OF PLANS AND SPECIFICATIONS

The direct intent of the Plans and Specifications is to provide for the construction, execution, and completion of every detail of a complete work or improvement which the Contractor undertakes to do in full compliance with the Plans, Specifications, Special Provisions, and all other Contract requirements. The Contractor shall perform all items of work covered and stipulated in the Bid, including altered and/or extra work, all in accordance with the lines, grades, sections, and dimensions given, and shall furnish, unless otherwise provided in the Contract, all materials, implements, machinery, equipment, tools, supplies, and transportation and labor necessary for the prosecution and completion of the work.

9. BID SUBMITTALS

For this project bids will **ONLY** be received and accepted via the online electronic bid service through QuestCDN.com. To access the electronic bid form, download the project documents and click the online bidding button at the top of advertisement.

10. REVIEW OF BIDS SUBMITTED

Bids will be reviewed within 1 hour of the proposal and results will be placed online at www.questcdn.com.

11. DISQUALIFICATION OF BIDDERS

Any one or more of the following causes may be considered as sufficient for rejection of the bid or bids and disqualification of the Bidder from further bidding for such period of time as determined by the Owner:

More than one Proposal for the same work from an individual, partnership, or corporation under the same or different names.

Evidence of collusion among the Bidders.

Lack of responsibility as shown by past work for the Owner, judged from the standpoint of workmanship and progress.

Noncompliance with terms of previous Contracts.

Uncompleted work which, in the judgment of the Owner, might hinder or prevent prompt completion of additional work if awarded.

12. CONSIDERATION OF BIDS

Bids received will be compared on the basis of an engineer's estimate of the items or work listed. In awarding the Contract, the Owner may, in addition to considering the amount stated in the Bid, take into consideration the responsibility of the various Bidders as determined from any investigation which it may elect to make.

The right is reserved to reject any or all bids, to waive technicalities, to re-advertise for bids, or to proceed to do the work otherwise, if, in the judgment of the Owner, the best interest of the City will be promoted thereby.

13. AWARDING OF THE CONTRACT

The Contract shall be deemed to have been awarded when notice in writing is forwarded by the City Engineer pursuant to actions of the Board of Public Works and/or Common Council.

14. RETURN OF PROPOSAL GUARANTEE

The Proposal guarantees of all except the two (2) lowest responsible Bidders will be returned within a reasonable time after the Proposals have been checked and tabulated. Proposal Guarantees of the two (2) lowest Bidders will be returned as soon as the Contract and Contractor's 100% Performance Bond and other documents required to be signed by the successful Bidder have been properly executed by the Bidder and submitted in proper form to the Owner.

15. EXECUTION OF CONTRACT

Executed and complete Contracts shall be presented to the Owner within twenty (20) calendar days after the date of the Notice of Award of the Contract. The Contract shall be executed by the Bidder/Contractor and the Contractor's bond(s) shall be executed by the Principal and Surety.

The Contractor shall submit insurance documents along with the executed Contract. Insurance documents shall include a Certificate of Insurance which clearly indicates compliance with the Contractor Liability Insurance Requirements as specified in the City's Standard Specifications (Section 1.1.9). In addition to the Certificate of Insurance, the Contractor shall submit a complete copy of the appropriate endorsements(s), such as but not limited to the endorsement which names the city of Marshfield as an additional insured.

Submission of improperly executed documents, or incomplete documents (such as failing to submit the Certificate of Insurance and /or endorsements) will delay final execution of the Contract by the Owner, and possibly the start of construction, however the schedule for completion of the project(s) will not be adjusted.

Final execution of the Contract by the Owner will occur after the Owner's attorney has reviewed the documents. The Owner and attorney shall be allowed a reasonable amount of time to complete their review/execution of the Contract (three working days minimum).

No Contract shall be considered binding upon the Owner until final execution of the Contract by the Owner.

16. FAILURE TO EXECUTE CONTRACT

Failure on the part of the successful Bidder to execute a Contract and an acceptable Contractor's bond within twenty (20) days after the date of notice of the awarding of the Contract will be considered as just cause for the annulment of the awarding and the forfeiture of the Security Guarantee to the Owner as payment of liquidated damages sustained as a result of such failure.

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SPECIAL CONDITIONS

1. PROJECT SCOPE

Contract 2020-02 Sanitary Sewer Lining will consist of Cured in Place Pipe (CIPP) lining of approximately 40,924 linear feet of sanitary sewer main ranging in diameter from 8 - inch to a diameter of 18 - inch.

Included with this work will include the reinstatement of live sanitary sewer laterals (Note: Capped laterals shall not be reinstated) and finally to brush and clean the lateral openings and then grout the lateral connection and the first 18 - inches up the lateral.

Following this work the sanitary sewer mains shall be cleaned, inspected and televised to document all work. Included with this shall be inspection and verification that all sanitary sewer laterals opened have an unobstructed flow.

2. PROSECUTION AND PROGRESS/STAGING OF CONSTRUCTION

Perform the work under this construction contract as indicated on the plans and details, and execute the work as specified in these Special Provision, the City of Marshfield 2020 Standard Specifications for Public Works Construction; and if so referenced the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction current Edition, and/or the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition with Addendum No. One.

The Contractor shall present a detailed schedule of construction operations for each project (prior to the preconstruction conference). The Contractor's schedule will comply with the following:

A. Sanitary Sewer Lining

Anticipated Start of Construction:

April 19th, 2020.

Final Completion: Within 100 calendar days from the actual start of construction but before

September 25th, 2020.

Final completion shall include all cleaning, televising and restoration of turf (impacted during lining operations).

Penalty: For each day beyond the 100 calendar day construction completion schedule shall result in a \$300.00 per day penalty (liquidated damages).

3. ACCESS

The Contractor shall provide reasonable vehicular and pedestrian access for all developed properties affected by construction throughout construction of the projects. The Contractor shall notify each and all affected property owners and tenants if access is to be interrupted during any part of the lining process, at least three (3) days prior to beginning said work.

4. NOTIFICATION BY CONTRACTOR

The Contractor shall notify the agencies listed below if road closures or changes in access can be expected to occur. The notice shall be distributed via fax at least 48-hours prior to closing a roadway or

changing access. All notices shall briefly summarize the current status of work and access, and discuss progress or changes which are expected to occur within the next two weeks. The notice shall be signed by the Contractor's agent who prepared it and include contact information (with phone numbers) where notified agencies can call to ask questions.

Agencies to be notified include:

AGENCY	FAX NUMBER	EMAIL
City of Marshfield - Fire & Rescue Department	715.384-8868	Scott Owen, Chief Scott.Owen@ci.marshfield.wi.us
City of Marshfield - Police Department	715.384.0823	Gramza, Rick Rick.Gramza@ci.marshfield.wi.us
City of Marshfield - Public Works Engineering Division	715.384.7631	Turchi, Tom tom@ci.marshfield.wi.us
City of Marshfield - Public Works Street Division	715.384.3606	Winch, Mike Kris.Hawley@ci.marshfield.wi.us
City of Marshfield - Parks & Recreation Department	715.384.4642	Casperson, Justin justin.casperson@ci.marshfield.wi.us
Marshfield Medical Center	715.389.4040	
US Post Office Marshfield	715.389.2922	
Veolia Environmental Services	715.387.3101	
Marshfield Bus Service	715.387.0766	
Wood County - Sheriff's Dept. - Marshfield Annex	715.384.4602	
Wood County Dispatch	715.421.8504	

5. STORAGE OF MATERIALS OR EQUIPMENT

The Contractor may be allowed to utilize existing roadways and/or right-of-ways within the construction limits of each project, to temporarily store materials and equipment if approved in writing by the City Engineer. Each material pile, stack, etc. or piece of equipment shall be located alongside of the traveled way and protected through the use of reflectorized drums with Type A flashers visible from all directions of travel.

Disturbed areas outside of the construction limits and/or slope intercepts and utilized for storage or access shall be protected with erosion controls and restored to the satisfaction of the Engineer upon completion of the project. All work regarding said storage, including but not limited to erosion controls and restoration, shall be considered incidental to construction.

The Contractor shall not be allowed to store equipment not in use on any street between the hours of 2 am to 6 am.

The Contractor may store vehicles at the Waste Water Treatment Plant only upon receiving approval from the Wastewater Superintendent, Sam Warp (715) 486-2007.

6. UTILITIES

A. General

There are underground and overhead utility facilities located within the project limits. The Contractor shall coordinate his construction activities with a call to Digger's Hotline as required per state statute.

The Contractor is encouraged to contact utility/facility owners to obtain current information on the status of an existing utility facility or any utility relocation work.

All costs associated with the discovery of utility facilities and/or conflicts along with protecting utility facilities, including but not limited to: utilization of special equipment and/or work procedures; loss of production; special protection devices such as sheeting, shoring, piling, timbers or supports; temporary removal and reinstallation; additional labor or equipment; repair/replacement of utility facilities; any down time or delay; all coordination associated with utilities, and all material, labor, equipment, tools and incidentals necessary to complete the work, shall be incidental to construction.

Utility companies known to have facilities within the project area include:

- City of Marshfield - Sanitary Sewer
- City of Marshfield - Storm Sewer
- City of Marshfield - Traffic Signals
- Marshfield Utilities (MU) - Water
- Marshfield Utilities (MU) - Electric and Street Lighting
- Frontier Communications (formerly Verizon North, Inc.) - Telephone
- Charter Communications - Cable
- WE Energies – Gas
- Other privately owned utilities may also be present

B. Sanitary Sewer

Existing sanitary sewer mains and laterals are located within construction limits. No conflicts with mains are anticipated.

C. Storm Sewer

Existing storm sewer mains and laterals are located within construction limits. No conflicts with mains are anticipated.

D. Water Main

Existing water mains and laterals are located within construction limits. No conflicts with mains are anticipated.

E. Electric

Marshfield Utilities (MU) - Electric Department has facilities within construction limits however MU does not anticipate major adjustments/rebuilding of overhead or underground facilities. No conflicts with electric utilities are anticipated.

F. Telephone

Frontier Communications, formerly Verizon North, Inc. has above ground and underground facilities within/adjacent to the project limits. No conflicts with phone utilities are anticipated.

G. Cable

Charter Communications has above ground and underground facilities within/adjacent to the project limits. No conflicts with cable utilities are anticipated.

H. Natural Gas

WE Energies has underground facilities within the project limits. No conflicts with mains are anticipated.

7. OBSTACLES

A. General

It is understood that the Contractor, by careful examination, is satisfied as to the nature and location of the obstacles to be encountered, requirements as dictated by the utility/obstacle owner, character of the equipment and facilities needed for prosecution of the project. All work associated with "Obstacles" shall be considered incidental to the project(s).

B. Utilities

Gas, power, cable TV and/or telephone poles, guys, pedestals or other utility items encountered as construction progresses, may require temporary removal, relocation and/or replacement. All costs associated with the temporary relocations, removal and reconnection of utility facilities will be at the Contractor's expense and no additional payment will be made for said work. Permanent removal of utility facilities shall be the responsibility of the utility Owners. The Contractor shall work with the utilities on the scheduling of any temporary or permanent relocation.

C. Sanitary Sewer Mains and Service Laterals

The Contractor will be required to keep a supply of materials on site to repair damaged sewer mains or laterals encountered during the construction. The materials include but are not limited to PVC sewer pipe, Fernco adapters, repair couplings, wyes, tees, etc. Failure to have adequate and proper materials on hand for timely repairs will not be grounds for any additional payments. Any damage to sanitary laterals, located or not located, shall be the responsibility of the Contractor. Note: Fernco connectors are not allowed on PVC to PVC connections.

D. Street Signs (City)

Where necessary for construction, the Contractor shall carefully remove, store and reinstall the existing street signs and posts. These signs include street names, stop, speed limit, etc. Temporary signs required for traffic flow shall be installed and maintained by the Contractor.

E. Miscellaneous Signs

Where necessary for construction, the Contractor shall remove and temporarily relocate existing miscellaneous signs not owned by the City of Marshfield such that each sign is visible to motorists.

Upon completion of work in the immediate area of each sign, the existing miscellaneous sign shall be moved and reinstalled to its original location. This work shall be considered incidental to construction.

F. Mailboxes

Where necessary for construction, mailboxes shall be carefully removed, relocated and reinstalled by the Contractor. Mailboxes shall be relocated such that each mailbox is accessible by the mail carrier. The Contractor shall place all affected mailboxes at an approved temporary location approved by the City Engineer. For projects where vehicle access is not possible for a significant time period, mailboxes shall be temporarily relocated and grouped/clustered at a central, accessible location. Upon completion, all mailboxes shall be relocated to their original locations or an approved location. This removal, relocation and replacement, etc. shall be considered incidental to construction.

G. Lawn Ornaments, Address Signs, Fence, Landscaping, Etc.

Where necessary, these items will be carefully removed and salvaged for the Owner, or where necessary, stored, relocated and/or reinstalled by the Contractor. Installation and restoration will be "of kind" to the complete satisfaction of the Owner. Upon completion, these items shall be relocated to their original location or an approved location. This work shall be considered incidental to construction.

8. TERRACE AND PRIVATE TREES

There are many trees of various species, size and age located within project limits. The City and property owners are very concerned about the welfare of these trees. The Contractor shall be required to exercise extreme care when working near the trees so as not to damage roots, branches, limbs, trunk, bark, etc. No trees shall be removed without prior written authorization by the City Engineer.

Terrace and/or private trees which are removed without approval or severely damaged due to careless construction operations may result in the assessment of damages or reduction of payment to the Contractor, intended to compensate the City or the property owner through the City, for the loss of said tree. If a tree is damaged or injured, it shall be repaired immediately including but not limited to cutting/trimming roots, branches and limbs. (Make all cuts immediately above the bark ridge and branch collar to leave the ridge and collar intact for healing.) Bark on tree trunks shall be repaired through application of asphalt based wound dressing or wrapped with a 2-ply waterproofed crepe tree wrapping paper laminated with a layer of pliable asphaltic material secured with biodegradable tape. All work shall be in accordance with acceptable forestry practices and approved by the City Forester or Engineer.

9. TRAFFIC CONTROL {PER LUMP SUM}

All signing for construction at each location to be lined shall be the Contractor's responsibility. Additional traffic control measures may be necessary to adequately protect the public and/or the work during select phases of construction. A traffic control plan shall be submitted and approved by the Engineer prior to beginning any work or the blocking of any streets. All traffic control shall follow the standards of Part VI of the Manual of Uniform Traffic Control Devices (MUTCD) – temporary traffic control.

10. BYPASS PUMPING {INCEDENTAL TO LINING}

Work on the 8, 10, 12, and 18 - inch diameter sanitary sewers shall require by-pass pumping during the lining process. The contractor shall be responsible for determining the proper sized pumping equipment to prevent sanitary sewer back-up conditions. The contractor shall be required to have a second operational pump on the project site to replace the primary pump in event of a pump failure. The contractor shall have qualified personnel on site 'continuously' while by pass pumping operations are in operation.

All by-pass pumping on all other sanitary mains within this contract shall be the contractor's responsibility and shall be considered incidental to the installation of said CIPP liner.

By-pass pumping (incidental) shall include providing, installing, maintaining and relocating all equipment and materials necessary to complete the by-pass pumping operations including but not limited to the disposal of waste and clean up, along with all materials, mobilization, labor, tools, equipment and incidentals necessary to complete the work.

The proposed method of sewage bypassing, equipment to be incorporated, and other flow controls shall be submitted for review by the Engineer.

11. RESTORATION OF TURF SURFACES

Turf surfaces shall be restored in accordance with the City's Standard Specifications and these Special Conditions. Topsoil processing, preparation and seed mixture shall comply with the following requirements:

Restore to a well groomed lawn condition using imported processed topsoil. Seed using City Seed Mix No. 1 at 5 lbs./1000 SF. Cultipack before and after seeding to develop a firm seed bed and insure good seed soil contact. This work shall be considered incidental to sanitary sewer lining and shall not be compensated for.

12. PROJECT BUDGET CONSTRAINTS

The City reserves the right to add or remove items to correspond with the approved budget based upon unit prices bid. The addition or removal of items to coincide with the available funding and shall be considered incidental to the contract and said adjustments will be documented at the award of contract. The anticipated project budget is approximately \$ 2,100,000.

13. TAX EXEMPT STATUS

Tax Exempt Status: Effective with all contracts executed after January 1, 2016, the sales price from the sale, storage, use or other consumption of tangible personal property that is used in conjunction with a public works improvement for a tax exempt entity, is exempt from State sales tax. Said property must become a component of the project owned by the tax exempt entity and includes: any building; shelter; parking lot; parking garage; athletic field; storm sewer; water supply system; or sewerage and waste water treatment facility, but does not include a highway, street or road.

The contractor shall ensure that the exemption for sales and use tax available under Wis. Stat. Sec. 77.54(9m) applies where available. The contractor shall provide all necessary documentation as required by the State of Wisconsin and the City of Marshfield to comply with this exemption.

14. CIPP SEWER REHABILITATION

1. GENERAL

This includes all work materials, and equipment for rehabilitating by lining existing sanitary sewers including but not limited the following listed below:

2. PROJECT SCOPE

- a. Mobilization and preparation.
- b. Sewer cleaning.
- c. Removal of protruding laterals
- d. Sewer televising.
- e. Sewage bypass pumping.
- f. CIPP sewer lining.
- g. Lateral reinstatement.
- h. Brushing of reinstated laterals
- i. Grouting.
- j. Construction testing and/or sealing.

3. REFERENCES

Applicable standards of the construction industry are made a part of the Contract. Documents by reference as if copied directly into the Contract Documents, or as if published copies were bound herewith. Standards referenced directly in the Contract Documents or by governing regulation, have precedence over non-referenced standards which are recognized in industry for applicability to work. Non-reference standards are hereby defined to have no particular applicability to the work except as a general measurement of whether work complies with standards recognized in the construction industry. Reference standards and codes listed in these specifications may include, but are not necessarily limited to standards or codes published by the following agencies and organizations:

(Latest editions of each reference at the time of bidding shall apply.)

- American Society to Testing and Materials (ASTM) D638 - Test Method for Tensile Properties of Plastics.
- ASTM D543 –Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents.
- ASTM D790 -Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- ASTM F1216 - Rehabilitation of Pipelines by Inversion and Curing a Resin-Impregnated Tube.
- ASTM D2990 - Test Methods for Tensile, Compressive, and Flexural Creep and Creep Rupture of Plastics.
- ASTM D5035 - Test Method for Breaking Strength and Elongation of Textile Fabrics {Strip Method}
- ASTM D5813 - Cured-in-Place, Thermosetting Resin Sewer Pipe.
- ASTM D2019 – Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Pulled in Place Installation of Glass Reinforced Plastic (GRP) Cured-in-Place Thermosetting Resin Pipe (CIPP).
- National Association of Sewer Service Companies (NASSCO) - Specification Guidelines - Wastewater Collection Systems - Maintenance and Rehabilitation.

4. EXPERIENCE REQUIREMENTS

- a. The liner supplier and installer shall have a minimum of five (5) years of experience in liner installation.
- b. The liner fabricator shall have a minimum of five (5) years of experience in liner fabrications.
- c. Field tests and cured specimens will be required.
- d. Following installation of the liner, Contractor shall televise and record the sewer in a format acceptable to the City Engineer Provided on a portable hard drive.

5. CIPP LINER

- a. Manufacturer's product literature and installation instructions.
- b. Manufacturer's material testing certification
- c. Liner thickness design (stand-alone) – **(Minimum Thickness 6 mm)**.
- d. Chemical Grout: Manufacturer's product literature and installation instructions.

6. SUBMITTALS

- a. Portable hard drive(s) containing all sewers televised, reports, manufactures specifications and testing shall be provided to the Owner at the Completion of the work.
- b. All televising shall be recorded in a digital format and submitted on PORTABLE HARD DRIVE. The format shall be in a format that is acceptable to the Engineer/Owner and acceptance of format shall be verified prior to the creation of portable hard drive(s). (The City of Marshfield utilizes Pipetech software and digital format submitted shall be compatible with said software).
- c. All digital recordings shall contain audio commentary during televising to record the defects and observations contained in the written report.
- d. Photographs of unusual and serious defects and observations shall be provided to the Owner at the completion of the work.
- e. The lateral service connections shall be televised and digitally recorded:
- f. During initial televising to assist in determining if the service is active.
- g. During reinstatement to observe the cutter.
- h. During testing and or chemical grouting to verify the service pipe is clear of grout.
- i. Follow-up Televising: Following installation of the liner, Contractor shall televise and digitally record the sewer as specified above.
- j. For Owner's records, Contractor shall submit copies of permits, licenses, certifications, inspection reports, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the work.

7. PUBLIC NOTIFICATION

- a. Written notice shall be delivered to each home or business affected by closed lateral service connections. The notice shall include:
 - Description of work.
 - How the work will affect the residents, including the time when the sewer will be out of service.
 - Local telephone "number of the Contractor, personal contact and written notice the day before the work will commence on the stretch of sewer affecting the residents.
 - Personal contact with any residents which cannot be reconnected within the time stated in the written notice.

- An example template has been included. Upon award of the contract the contractor will receive a word document to merge the pertinent information into the notifications.

8. NOTIFICATION FOLLOWING GROUTING

- Attempt to notify each affected resident for which laterals have been grouted:
- Provide written notice personally or attach written notice to the door of each location where laterals have been grouted. Include the following:
 - State the lateral was grouted.
 - Include the date and time.
 - If any blockage of sanitary flow occurs, to notify the Engineer at a telephone number provided by the Engineer. **WWTP AFTER HOURS NUMBER (Wood County Dispatch @ 715-387-4394)** or Tom Turchi, City Engineer, (715) 305-1157.
 - An example template has been included. Upon award of the contract the contractor will receive a word document to merge the pertinent information into the notifications.

9. QUALITY ASSURANCE

- It is Contractor's responsibility to verify the requirements of the specifically named codes and standards and to verify that the items procured for use in this work meet or exceed the specified requirements.
- When required by individual sections of these specifications, Contractor shall obtain a copy of each pertinent code or standard and maintain the copies at the job site during submittals, planning, and progress of the work until substantial completion of the work is attained.
- Where compliance with two or more industry standards or sets of requirements are specified, and the overlapping of those standards or requirements establishes different or conflicting minimums or levels of quality, the most stringent requirement (which is generally recognized to be also most costly) is intended and will be enforced, unless more detailed language written directly into Contract Documents clearly indicates that a less stringent requirement is acceptable.
- Refer all uncertainties to Engineer for decision before proceeding.
- Where materials or workmanship are required by these Contract Documents to meet or exceed the specifically named code or standard; it is Contractor's responsibility to provide materials and workmanship which meet or exceed that specifically named code or standard.
- It is also Contractor's responsibility, when so required by the Contract Documents, to deliver to Engineer all required proof that the material or workmanship, or both, meet or exceed the requirements of the specifically named code or standard.

C. PRODUCTS

1. CAST -IN-PLACE PIPE (CIPP) LINER

- For Heat Cure CIPP systems, the tube material shall meet the requirements of ASTM F 1216 and ASTM D5813, or better. The tube shall consist of one or more layers of flexible needled felt or an equivalent nonwoven or woven material, or a combination of nonwoven and woven materials, capable of carrying resin, withstanding installation pressures and curing temperatures. The tube shall be compatible with the resin system used. The material shall be able to stretch to fit irregular pipe sections and negotiate bends.
- For Ultraviolet Light Cure CIPP systems, the tube material shall be made of non-corrosion material and shall be free from tears, holes, cuts, foreign materials and other surface defects.

The fiberglass tube shall be constructed to withstand installation pressures as required by the Manufacturer's recommendations. The interior and exterior foil shall be styrene resistant along with the ability to protect and contain the resin within the liner, with the exterior foil being impermeable to light. The liner should be seamless and spirally wound in its cured state to ensure homogenous physical properties around the circumference of the cured liner. The nominal fiberglass tube wall thickness shall be constructed to the nearest 0.5 mm increment, rounded up from the design thickness for that section of installed CIPP. The fiberglass tube shall be manufactured to a size that when installed will tightly fit the internal circumference and the length of the original conduit. The tube shall be able to stretch to fit irregular pipe sections and negotiate bends.

- c. For any tube installed, the wall color of the interior pipe surface of CIPP after installation shall be a light reflective color so that a clear detailed examination with closed circuit television inspection equipment may be made.
- d. Liner tube shall be sewn to tightly fit the internal circumference of the original pipe for the entire length to be lined.
- e. Wall thickness shall be designed in conformance with ASTM F1216, Appendix XL
- f. Tube shall be needle-interlocked polyester felt formed into sheets of required thickness.
- g. Tube may be made of single- or multiple-layer construction, with any layer not less than 1/16-inch thick.
- h. Membranes or strips sandwiched in between layers may be included to control longitudinal stretching.
- i. Seams shall not be sewn perpendicular to the longitudinal axis. Seams shall be spirally formed and sewn.
- j. Polyurethane membrane used during inversion of tube may be left on internal surface of liner after curing.
- k. The outside of the tube shall have markers along its full length at regular intervals not to exceed 5 feet.
- l. Resin shall conform to ASTM F1216 and D5813.
- m. Polyester resin for general chemical applications shall be used, conforming to ASTM F1216, Appendix X2.
- n. Fillers, except those required for viscosity control or fire retardance, will be not allowed.
- o. Resins may contain pigments, dyes, or colorants which will not interfere with visual inspection of cured liner.
- p. Resin content shall be 10% to 15% by volume greater than the volume of felt in the liner tube.
- q. Cured liner shall conform to ASTM F1216.
- r. Minimum thickness of bonded polyurethane membrane shall be 10 mils minimum ($\pm 5\%$) and shall not affect structural dimension requirements of cured liner.
- s. Thickness of cured liner shall be as designed (+ 10% - 4%) and shall not include thickness of polyurethane inner liner.
- t. Cured liner shall conform to the following structural standards:
 - Tensile Strength - 3,000 psi (ASTM D638).
 - Flexural Modulus of Elasticity - 250,000 psi (ASTM D790).
 - Flexural Strength - 4,500 psi (ASTM D790).
- u. Layers of cured CIPP shall be uniformly bonded. It shall not be possible to separate any two layers with a probe or knife point so that the layers separate cleanly or the probe moves freely between layers.
- v. For Ultraviolet Light Cure CIPP systems, the tube material shall be made of non-corrosion material and shall be free from tears, holes, cuts, foreign materials and other surface defects. The fiberglass tube shall be constructed to withstand installation pressures as required by the Manufacturer's recommendations.

The interior and exterior foil shall be styrene resistant along with the ability to protect and contain the resin within the liner, with the exterior foil being impermeable to light. The liner should be seamless and spirally wound in its cured state to ensure homogenous physical properties around the circumference of the cured liner. The nominal fiberglass tube wall thickness shall be constructed to the nearest 0.5 mm increment, rounded up from the design thickness for that section of installed CIPP. The fiberglass tube shall be manufactured to a size that when installed will tightly fit the internal circumference and the length of the original conduit. The tube shall be able to stretch to fit irregular pipe sections and negotiate bends.

- w. For any tube installed, the wall color of the interior pipe surface of CIPP after installation shall be a light reflective color so that a clear detailed examination with closed circuit television inspection equipment may be made.

2. MANUFACTURES

- a. Insituform Technologies, Inc.
- b. National Liner, Inc.
- c. InLiner USA, Inc.
- d. Liner Products, LLC.
- e. Equal manufacturers to this specification or approved by the Engineer.

3. CHEMICAL GROUT

- a. Grout used for chemically sealing lateral connections shall be acrylamide base gel equal to Avanti International AV-100.

4. CATALYSTS

- b. CAT-T + (Avanti International AV-101) shall be added to the base gel at 1 % ~ 2-1/2%.
- c. Ammonium per sulfate (Avanti International AV-102) shall be combined with the base gel at the point of application at 1 % - 3% to produce the final grout mixture.
- d. Root control chemicals equal to copper sulphate shall be added to the final grout mixture to inhibit root growth.

5. NON SHRINK MORTAR

- a. Non-shrink mortar shall be All-Crete as manufactured by Concrete Products, Inc., Woodland, California; Speed Crete as manufactured by Tamms Industries Co., Itasco, Illinois; or equal.

D. EXECUTION

1. INSTALLATION PREPERATION - CLEANING

- a. Prior to installing the liner, the Contractor shall clean the sewer.
- b. All material shall be removed which will impede televising and/or installation of the liner.
- c. Cleaning shall be completed by using as many passes as required to remove growth and debris to allow the televising camera and the new liner to smoothly pass between manholes.
- d. At the completion of cleaning, the sewer shall be capable of passing the televising equipment and liner.
- e. Protrusions which shall interfere with liner installation shall be removed by the use of remote controlled cutters observed with a closed-circuit television system. Protrusions shall be

removed to within ¼-inch of the diameter of the sanitary sewer main including the thickness of the installed CIPP liner.

- f. The Contractor shall provide all supervision, equipment, labor and material necessary for the proper cleaning. Methods shall include, but are not limited to:
 - Rodding.
 - Bucketing.
 - Brushing.
 - Flushing.
 - Chemical cleaning will not be allowed.
- g. The Contractor is responsible for proper and safe disposal of all material removed from the sewers.
- h. The Contractor shall take precautions and perform additional work as necessary to prevent damage caused by blow-backs during all cleaning/jetting operations, without decreasing the intensity of the cleaning/jetting. The City of Marshfield has identified locations where blow-backs have occurred in the past, and provided this information to the Contractor. Precautions and/or additional work may include entering the private facility/building/residence and temporarily plugging the service line (with removal of the plug immediately following cleaning). The Contractor is responsible for all damage, whether at known or unknown blow-back locations. A map of known blow-back locations has been included.
- i. The Contractor shall remove all of the following from the sewer lines and manholes: dirt, grease, rocks, sand, sludge, roots, solids, semisolid materials, obstructions etc. The sewer to be lined shall remain clean from the items listed above until the liner is in place and cured.

2. SEWER SERVICE

- a. All sewers shall be kept in service where lining is not performed.
- b. Sewers shall not be backed-up into basements.
- c. Contractor shall be responsible for all sewer backups into basements.

3. WATER

- a. Water required for cleaning will be provided by the Owner at no cost.
- b. Water will be provided at the Wastewater Treatment Plant (2601 E 34th Street), Marshfield Utilities main office (2000 South Central Avenue) and the City Garage (407 W 2nd Street).
- c. A record of the number of loads of water used (in gallons) by the Contractor shall be kept and gallons provided to the Owner at the completion of the work.
- d. No connection to any municipal hydrant shall be allowed per 1.3.21 of the standard specifications, without written approval from the City Engineer.

E. INSTALLATION PREPARATION - TELEVISION

1. Televising

- a. Prior to installing the liner, the Contractor shall televise the sewer.
- b. It shall be the Contractor's responsibility to verify that all sewer obstructions have been removed and to locate the access manholes required.
- c. Televising shall be by closed-circuit color television with minimum 720p resolution.
- d. The section of sewer being televised shall be suitably isolated from the remainder of the sewer system as required.

- e. Sewer Isolation shall be by plugging off the flow of all upstream pipes through the use of sewer line plugs. The following procedures shall be employed, as required, to adequately view the sewers:
 - Televising at night, and/or Televising short sections of sewer and releasing the plug several times during the televising, as required.
 - Bypass pumping, where required, shall be performed by the Contractor

2. Equipment

- a. The color television camera used for inspection shall be specifically designed and constructed for such inspection.
- b. The camera shall be, operative in 190% relative humidity conditions.
- c. The camera shall be a minimum of 720p resolution.
- d. Lighting for the camera shall be suitable to allow a clear picture of the entire periphery of the pipe.
- e. The camera shall have a variable focus from the viewing operator's station.
- f. The camera shall have a pan and tilt head for observing into service connections.

3. Procedures

- a. The camera shall be moved through the line in either direction at a uniformly slow rate by means of cable winches at each manhole or by self-propelled equipment.
- b. The speed shall not exceed 30 feet per minute, stopping to document sewer condition.
- c. Direction of travel and viewing shall be downstream unless otherwise authorized by the Owner.
- d. Measurement of defects shall be at the ground level by means of a metering device.
- e. Marking on cable, or the like, which would require Interpolation for the depth of the manhole, will not be allowed.
- f. Measurements shall be accurate to two-tenths (0.2') of a foot.
- g. A measuring target in front of the television shall be used as an exact measurement reference point, and the meter reading shall show this exact location of the measurement reference point.

F. RECORD KEEPING

1. The following information shall be noted, as required for the work

- a. Printed records shall include the following:
 - Street or easement location.
 - Upstream and Downstream manhole numbers.
 - Approximate depth of sewer.
 - Overall length of sewer.
 - Nominal inside diameter of sewer.
 - Type of sewer pipe material (Include color of pipe).
 - Pipe joint spacing within to two-tenths (0.2') of a foot accuracy.
 - Unusual observations in manholes.
- b. Printed location records shall be kept by the Contractor that will clearly show the exact location, in relation to adjacent manholes, of each point of infiltration, inflow, or pipe defect discovered.
- c. Defects shall be referenced according to a clockwise orientation.
- d. Where offset or sheared joints are encountered, the amount of vertical or horizontal displacement shall be recorded.
- e. Service connections shall be noted.

- f. Wye or Break-in type connection shall be noted.
- g. Clockwise orientation shall be noted.
- h. Size of pipe shall be noted.
- i. Presence of a plug or an active lateral pipe shall be noted.

2. Where cracks are observed, they shall be noted and include

- a. Type of crack shall be noted.
 - Longitudinal.
 - Spiral.
 - Circular.
- b. Multiple.
- c. Collapsed pipe.
- d. Displacement of any pipe or opening of crack shall be noted.

3. Where roots are observed, the percentage of root growth in relation to the pipe opening shall be noted.

- a. The percentage of root growth shall conform to the guide page attached to these Specifications.
- b. Scale, corrosion, soap, and grease shall be noted and include:
 - Heavy.
 - Medium.
 - Light.
- c. Clockwise orientation or amount of pipe wall covered.

4. Where Infiltration or Inflow are observed notes shall include

- a. Clockwise orientation.
- b. Estimate of amount of flow, in gallons per minute.
- c. Any other unusual conditions observed shall be reported.

M. LINER- PREPARATION

- a. Liner tube shall be impregnated with resin within 6 days before proposed time of installation or per the recommended manufacture's specifications whichever is shorter.
 - Storage and transport of impregnated liner.
 - Storage shall be out of direct sunlight.
 - Storage shall be below 40°F.
 - Transport shall be below 40°F.

N. LINER INSTALLATION

- a. Installation shall be by contractors certified by the liner manufacturer for installation of the liner.
- b. All personnel installing the liner shall have been trained by the liner manufacturer.
- c. All personnel installing the liner shall have a minimum of five (5) years' experience with installing liners.
- d. Installation of the liner shall conform to the manufacturer's printed procedures and literature.
- e. The liner shall be installed by unrolling of the tube by inversion. Pulling of the liner shall not be allowed.

O. CURING

- a. Curing using circulated heating water or steam shall be performed after the inversion is complete.
- b. Curing temperature shall be as recommended by the liner manufacturer.
- c. Curing pressures shall be as recommended by the manufacturer.
- d. Cool down after heating shall be controlled.
- e. Temperature shall be controlled as recommended by the liner manufacturer
- f. Pressures shall be maintained during cooling as recommended by the liner manufacturer.
- g. Temperature gauges shall be placed to monitor the following:
 - Incoming water to heat source.
 - Outgoing water from heat source.
 - Inside the tube at the termination points.
- h. Resin compatible with the new liner shall be used to seal the liner to the existing pipe at the manholes.
- i. Hydraulic cement shall be used as required to complete manhole transitions.

P. REINSTATEMENT OF LATERAL SERVICE CONNECTIONS

- a. All active lateral service connections shall be identified prior to lining.
- b. Lateral Service Connections shall be reopened without excavation, utilizing a remote-controlled cutter monitored by a television camera.
- c. A spare cutter shall be present at the site prior to lining.
- d. All active laterals shall be reinstated.
- e. All Service Connections shall be reinstated in a manner to clean the opening to a distance of 1/8 – inch of the existing opening. This opening shall be ground smooth to prevent materials/waste from becoming entangled. Brushing shall be required at the liner connection to create the smooth surface.
- f. Isolate the immediate area of the main line sewer and a minimum of 18 inches of the lateral service pipe.
- g. Apply air pressure to the isolated area in conformance with the equipment manufacture's recommendations.
- h. If the pipe fails the air test, the pipes shall be chemically sealed with grout.
- i. Chemical grout shall be pressure injected through the lateral isolation equipment into the annular space between the pipes and the Isolation equipment. The grout shall be forced out into the soil through leaking joints 'and pipe defects.
- j. The joint shall be pressure injected and tested until it passes the air test or in the opinion of the Engineer that the defect cannot be sealed.
- k. Equipment shall be equal to Ques or TRB Specialty Rehabilitations systems.
- b. The equipment used for testing the sewer connection and lateral service shall be used for sealing connections which fail the air test.
- a. Following chemical grouting, attempt to obtain a water flush by the occupant and verify with the video camera.
- b. If the water flush is not observed, the service lateral shall be opened by the Contractor.

Q. TESTING LINER

- a. Sample and test 50% of the total number of manhole to manhole segments, per size of sewer.

- b. Each sample shall be large enough to provide five specimens for flexural testing and for tensile testing.
- c. Test results shall be the average of five specimens tested.
- d. Specimens shall be actual thickness of fabricated liner.
- e. Perform the following tests:
 - Flexural strength as modulus of elasticity: Conform to ASTM D790.
- f. Smooth (inner) face shall be in compression.
- g. Copies of these tests shall be submitted to the Engineer.
- h. Following installation of the liner, Contractor shall televise and digitally record the sewer.

R. BYPASS PUMPING

- a. Where required by sewage flows, the Contractor shall bypass the sewage around the section or sections of line that are to be televised and chemical grouted, lined, or replaced.
- b. Under no circumstances will the dumping of raw sewage be allowed on the streets or in storm sewers.
- c. The bypass shall be made by plugging an existing upstream manhole and pumping the sewage into a downstream manhole or adjacent system.
- d. At the end of each working day, the lined section shall be placed in service and the bypass removed.
- e. The pump and bypass lines shall be of adequate capacity and size to handle all sewage flows. The pump shall be one specifically designed for sewage capable of passing 3-inch solids.

S. PAYMENT

1. PAYMENT LINER

The unit price bid for each location shall include all costs of furnishing and installing the liner, with associated work, for each liner. Measurement and payment will be from center of manhole to center of manhole. The unit price bid for each location shall include the costs of cleaning and removing obstructions, televising, sewage bypassing, installation of the liner, clean-up, and restoration as specified and shall be considered full compensation for all equipment and materials, mobilization, labor, tools, equipment and incidentals necessary to complete the work.

2. PAYMENT LATERAL REINSTATEMENT

Payment for lateral reinstatement will be paid for each location successfully completed. Testing of the lateral connection joint shall be included in the prices bid for lateral reinstatement. The unit price bid for each location shall include the costs of cleaning and removing obstructions, televising, sewage bypassing, installation of the liner, brushing the lateral connection smooth, clean-up, and restoration as specified and shall be considered full compensation for all equipment and materials, mobilization, labor, tools, equipment and incidentals necessary to complete the work.

3. PAYMENT AIR TEST PER LATERAL CONNECTION

Payment for air testing of lateral connection joints will be paid for each individual location tested. The unit price bid for each individual location shall include the costs of cleaning and removing obstructions, televising, sewage bypassing, completing an air test, clean-up, as specified and shall be considered full compensation for all equipment and materials, mobilization, labor, tools, equipment and incidentals necessary to complete the work.

Special note: Additional air testing of lateral connections necessary to ensure chemical sealing of said joint has been completely sealed shall be considered incidental to chemical sealing of lateral connection.

4. PAYMENT CHEMICAL SEALING OF LATERAL CONNECTION

Payment for chemical sealing of lateral connection joints will be paid for each location completed satisfactorily. The unit price bid for each location shall include the costs of cleaning and removing obstructions, televising, sewage bypassing, installation of the liner, clean-up, and restoration as specified and shall be considered full compensation for all equipment and materials, mobilization, labor, tools, equipment and incidentals necessary to complete the work.

T. PROJECT RECORD DOCUMENTS

- a. Contractor shall maintain on site, one set of the following record documents to record actual revisions to the work:
 - Drawings.
 - Specifications.
 - Addenda.
- i. Change orders and other modifications to the Contract.
- b. Reviewed shop drawings, product data, and samples.
- c. Manufacturer's instruction for assembly, installation, and adjusting.
- d. Contractor shall ensure entries are complete and accurate, enabling future reference by Owner.
- e. Contractor shall store record documents separate from documents used for construction.
- f. Contractor shall record information concurrent with construction progress.
- g. Deliver project record documents to the owner upon completion of all work. The owner prefers that all documents be submitted in a digital format such as a PDF.

U. WASTE WATER FLOW MANAGEMENT

The Contractor shall maintain service for all users impacted by sanitary sewer work.

The wastewater flow in the existing sewer shall be bypass pumped, manhole section to manhole section, around the segment of sanitary sewer being installed. Bypass pumping shall be continued until the sanitary sewer segment is completed, tested and deflection tested, as required elsewhere.

Wastewater will not be allowed to flow into an open trench. Wastewater and groundwater will not be allowed to flow from an open trench into new or existing sanitary sewers. Wastewaters must be safely and properly conveyed to a downstream sanitary sewer, without exposure to the open air and without adverse impact to downstream sewers and/or users.

Wastewater flow management shall be incidental to construction of sanitary sewers and will not be paid for separately.

V. DEFECTS

The following repair methods for common defects are considered acceptable:

- Defect: Wrinkles/ridges exceeding 5% of pipe diameter outside of 120-degree invert arc – OR – wrinkles/ridges exceeding 2% of pipe diameter inside of the 120-degree invert arc centered at the bottom of the pipe.
- Repair: Grind to within required tolerance, coat ground area with manufacturer's approved

- resin. Point repair may be required if minimum thickness is affected by repair.
- Rejection Criteria: The Engineer may reject the work if wrinkles or ridges exceed 10% of pipe diameter.
- Defect: Holes, tears, soft spots, lifts, delamination, blisters/bubbles.
- Repair: Point repairs under manufacturer's approved recommendations.
- Rejection Criteria: If defective areas cover greater than 5% of the surface area the Engineer reserves the right to reject the work.
- Defect: CIPP thickness less than calculated minimum thickness.
- Repair: If the Engineer determines that the CIPP is acceptable, payment may be reduced by the percentage below the design minimum thickness. In some cases, a second CIPP within the first may be allowed.
- Rejection Criteria: If the actual thickness is less than 87.5% of the design minimum thickness, the Engineer reserves the right to reject the work.
- Defect: Service reinstated to greater than 100% of original flow capacity.

W. WARRANTY

All lining work shall be fully guaranteed by the Contractor for a period of 2 years from the date of Final Acceptance unless otherwise stipulated in writing by the Owner prior to the date of Conditional Acceptance. During this period, all defects discovered by the Owner or Engineer shall be addressed by the Contractor in a satisfactory manner at no cost to the Owner. The Owner may conduct independent inspections, at its own expense, of the lining Work at any time prior to the completion of the guarantee period.

TRUCK ROUTE MAP

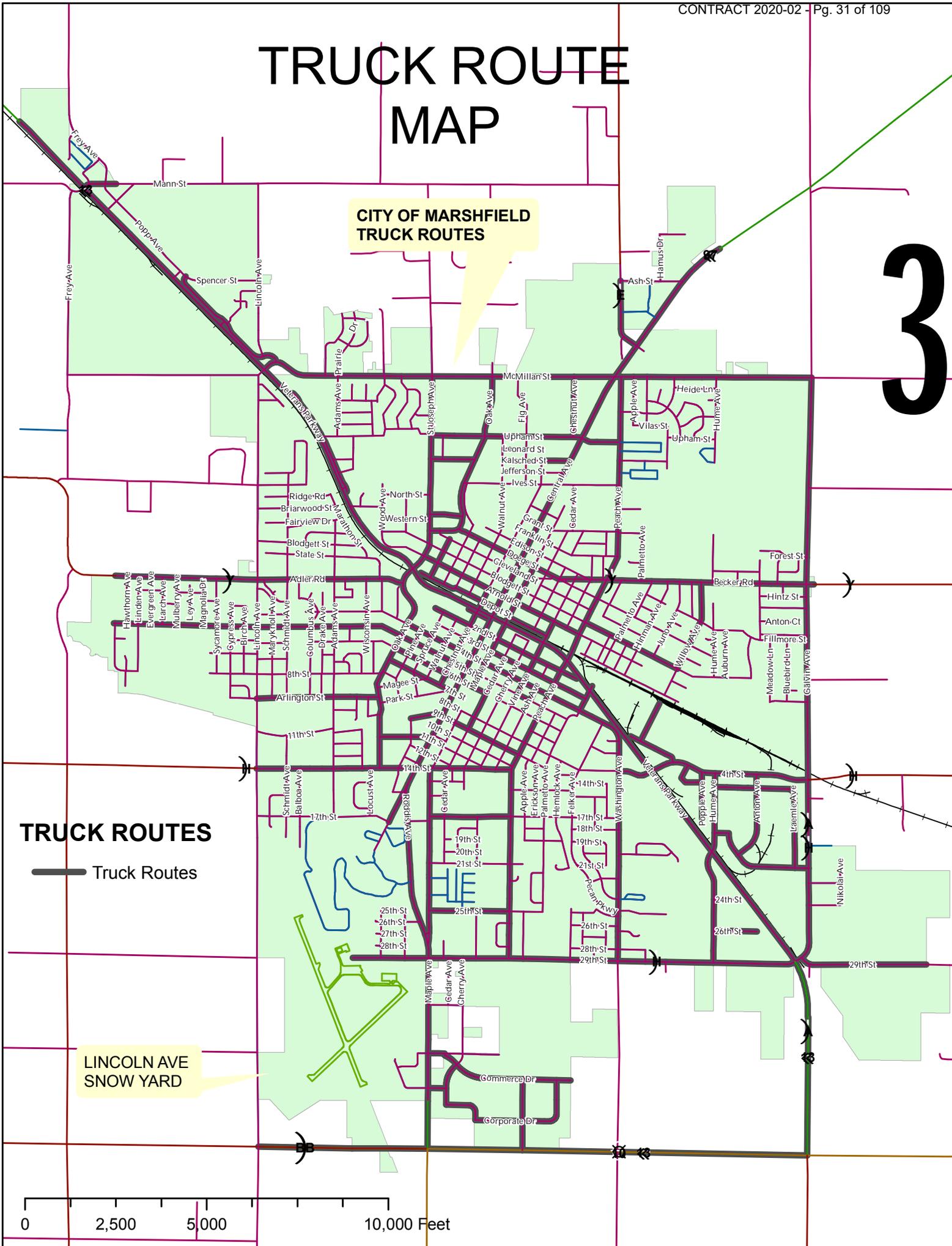
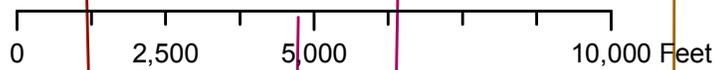
CITY OF MARSHFIELD TRUCK ROUTES

3

TRUCK ROUTES

— Truck Routes

LINCOLN AVE SNOW YARD



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CONTRACT 2020-02

This agreement made this _____ day of _____ by and between _____ hereinafter called the '**CONTRACTOR**' and the City of Marshfield, Wisconsin, hereinafter called the '**OWNER**', WITNESSETH, That the Contractor and the Owner, for the consideration hereinafter stated, agree as follows:

Article I, Scope of Work:

The Contractor shall perform everything required to be performed and shall provide and furnish all labor, materials, tools, equipment and plant which may be required, either expendable or permanent, also all utility and transportation services, all in strict accordance with the Plans, Specifications, and Contract Documents prepared by the City Engineer, sometimes referred to as the Engineer, which Plans and Specifications are made a part of this Contract, and in strict compliance with the Proposal and other Contract Documents herein mentioned which are also a part of this Contract; and the other documents constituting a part hereof.

Article II, The Contract Consideration of Prices:

2020 Sanitary Sewer Lining Project No. 351796						
Item No.	On Street - (FROM) - (TO) - (MH#) - (MH#)	Pipe Length	Pipe Size	Unit		Unit Price
1	E 3rd Street - Cedar to Maple - J57 to J39	390	8L	LF	\$	
2	E 6th Street - Apple to Peach - L47 to L42	390	8" Conc	LF	\$	
3	W 6th Street - Adams to East of Hardacre - V58 to W31	213	8" VIT	LF	\$	
4	W 6th Street - Adams to East of Hardacre - W31 to W30	213	8" VIT	LF	\$	
5	W 6th Street - Adams to East of Hardacre - W30 to W29	208	8" VIT	LF	\$	
6	W 13th Street - Locust to Adams - Y28 to Y27	397	8" Conc	LF	\$	
7	W 13th Street - Locust to Adams - Y27 to Y26	397	8" Conc	LF	\$	
8	W 14th Street - Lincoln to Adams - Y34 to Y33	350	8" Conc	LF	\$	
9	W 14th Street - Lincoln to Adams - Y33 to Y32	350	8" Conc	LF	\$	
10	W 14th Street - Lincoln to Adams - Y32 to Y31	330	10" Conc	LF	\$	
11	W 14th Street - Lincoln to Adams - Y31 to Y30	320	12" Conc	LF	\$	
12	W 14th Street - Lincoln to Adams - Y30 to Y29	320	15" Conc	LF	\$	
13	W 14th Street - Lincoln to Adams - Y29 to Y25	320	15" Conc	LF	\$	
14	E 15th Street - Felker to the west - P62 to L5	222	8" Conc	LF	\$	
15	E 25th Street - Maywood to Butternut Pky - Q43 to Q42	290	8" Conc	LF	\$	
16	E 25th Street - Maywood to Butternut Pky - Q42 to Q41	128	8" Conc	LF	\$	
17	E 26th Street - Maywood to Washington - Q27 to Q26	319	8" Conc	LF	\$	

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18	E 26th Street - Maywood to Washington - Q26 to Q25	316	8" Conc	LF	\$
19	E 26th Street - Maywood to Washington - Q25 to Q20	333	8" Conc	LF	\$
20	E 27th Street - Hume to Aspen - R17 to R16	315	8" Conc	LF	\$
21	E 27th Street - Hume to Aspen - R16 to R15	330	8" Conc	LF	\$
22	E 27th Street - Hume to Aspen - R15 to R14	330	10" Conc	LF	\$
23	E 27th Street - Hume to Aspen - R14 to R13	330	10" Conc	LF	\$
24	N Adams Ave. - south mid block to Fairview - C29 to C28	199	8" Conc	LF	\$
25	S Adams Ave - 13th to 14th - Y26 to Y25	330	8" Conc	LF	\$
26	S Adams Ave - 14th to 17th - Y25 to Y24	328	12" Conc	LF	\$
27	S Adams Ave - 14th to 17th - Y24 to Y122	207	12" Conc	LF	\$
28	S Adams Ave - 14th to 17th - Y122 to Y23	121	12" Conc	LF	\$
29	S Adams Ave - 14th to 17th - Y23 to Y22	328	15" Conc	LF	\$
30	S Adams Ave - 14th to 17th - Y22 to Y17	328	15" Conc	LF	\$
31	Anton Ave. - 4th to Anton - S21 to S20	104	10" CI	LF	\$
32	S Ash Ave. - 2nd to 3rd - L59A to L59	217	8" VIT	LF	\$
33	Becker Road - N Apple to N Palmetto - H9 to H8	285	8" Conc	LF	\$
34	Becker Road - N Apple to N Palmetto - H8 to H7	300	8" Conc	LF	\$
35	Becker Road - N Apple to N Palmetto - H7 to H6	300	8" Conc	LF	\$
36	Becker Road - 2408 becker to Anton - I42 to I41	270	8" Conc	LF	\$
37	Becker Road - 2408 becker to Anton - I41 to I40A	153	8" Conc	LF	\$
38	Becker Road - 2408 becker to Anton - I40 to I39	322	8" Conc	LF	\$
39	Becker Road - Hume to Willow - I34 to I33	301	10" Conc	LF	\$
40	Becker Road - Willow intersection - I33 to H1	48	10" Conc	LF	\$
41	Becker Road - Willow intersection - I33 to H67	79	10" Conc	LF	\$
42	Becker Road - Willow intersection - H1 to H67	62	15" Conc	LF	\$
43	W Blodgett Street - West of Marathon to Lincoln - C14 to C13	242	8" Conc	LF	\$
44	W Blodgett Street - West of Marathon to Lincoln - C13 to C12	240	8" Conc	LF	\$

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45	W Blodgett Street - West of Marathon to Lincoln - C12 to C11	271	8" Conc	LF	\$
46	W Blodgett Street - West of Marathon to Lincoln - C11 to C10	268	8" Conc	LF	\$
47	W Blodgett Street - West of Marathon to Lincoln - C10 to C9	268	8" Conc	LF	\$
48	W Blodgett Street - West of Marathon to Lincoln - C9 to C8	249	8" Conc	LF	\$
49	W Blodgett Street - West of Marathon to Lincoln - C8 to C7	250	8" Conc	LF	\$
50	W Blodgett Street - West of Marathon to Lincoln - C7 to C6	403	8" Conc	LF	\$
51	W Blodgett Street - West of Marathon to Lincoln - C6 to C5	401	8" Conc	LF	\$
52	Broadway Ave. - clinic parking lot to Western - D94 to D75	184	8" VIT	LF	\$
53	Broadway Ave. - clinic parking lot to Western - D75 to D70	316	8" VIT	LF	\$
54	N Cedar Ave. - Grant to Ives - G19 to F110	362	12" Conc	LF	\$
55	N Cedar Ave. - Grant to Ives - F110 to F109	229	18" Conc	LF	\$
56	N Cedar Ave. - Grant to Ives - F109 to F108	348	18" Conc	LF	\$
57	S Central Ave - N Figs to Praschak Park - N17 to O65	282	12" Conc	LF	\$
58	E Emerald Street - Anton to Juniper - I47 to I46	303	8" Conc	LF	\$
59	E Emerald Street - Anton to Juniper - I46 to I45	304	8" Conc	LF	\$
60	Fillmore Street- Anton to Willow - I27 to I26	292	8" Conc	LF	\$
61	Fillmore Street- Anton to Willow - I26 to I25	240	8" Conc	LF	\$
62	Fillmore Street- Anton to Willow - I25 to I19	240	8" Conc	LF	\$
63	Fillmore Street- Anton to Willow - I19 to I14	319	8" Conc	LF	\$
64	Fillmore Street- Anton to Willow - I14 to I13	201	8" Conc	LF	\$
65	Fillmore Street- Anton to Willow - I13 to I7	205	8" Conc	LF	\$
66	George Dr - 1006 George to 8th - V47 to V44	110	8" Conc	LF	\$
67	George Dr - 1006 George to 8th - V44 to V43	153	8" Conc	LF	\$
68	George Dr - 1006 George to 8th - V43 to V42	282	8" Conc	LF	\$
69	Hintz Street - Galvin to Anton - I52 to I51	305	8" Conc	LF	\$
70	Hintz Street - Galvin to Anton - I51 to I50	291	8" Conc	LF	\$
71	Hintz Street - Galvin to Anton - I50 to I49	320	8" Conc	LF	\$

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72	Hintz Street - Galvin to Anton - I49 to I48	322	8" Conc	LF	\$
73	N Hume Ave. - Blodgett to Filmore - I18 to I17	220	8" Conc	LF	\$
74	N Hume Ave. - Blodgett to Filmore - I17 to I16	328	8" Conc	LF	\$
75	N Hume Ave. - Blodgett to Filmore - I16 to I15	372	8" Conc	LF	\$
76	N Hume Ave. - Blodgett to Filmore - I15 to I58	110	8" Conc	LF	\$
77	N Hume Ave. - Blodgett to Filmore - I58 to I14	266	8" Conc	LF	\$
78	E Ives Street - Cedar to Peach - F108 to F107	355	18" Conc	LF	\$
79	E Ives Street - Cedar to Peach - F107 to F106	298	18" Conc	LF	\$
80	E Ives Street - Cedar to Peach - F106 to F105	299	18" Conc	LF	\$
81	E Ives Street - Cedar to Peach - F105 to F104	386	18" Conc	LF	\$
82	Juniper Ave. - Emerald to Becker - I45 to I44	311	8" Conc	LF	\$
83	Karau Drive - South mid block to 4th - S52 to S31	175	8" Conc	LF	\$
84	Lincoln Ave - McMillan to Lift Station - A97 to A38	141	18" Conc	LF	\$
85	Lincoln Ave - McMillan to Lift Station - A38 to A95	228	18" Conc	LF	\$
86	Lincoln Ave - McMillan to Lift Station - A95 to A35	258	18" Conc	LF	\$
87	Lincoln Ave - McMillan to Lift Station - A35 to A93	377	18" Conc	LF	\$
88	Lincoln Ave - McMillan to Lift Station - A93 to A92	380	18" Conc	LF	\$
89	Lincoln Ave - McMillan to Lift Station - A92 to A4	380	18" Conc	LF	\$
90	Lincoln Ave - McMillan to Lift Station - A4 to A90	403	18" Conc	LF	\$
91	Lincoln Ave - McMillan to Lift Station - A90 to A89	403	18" Conc	LF	\$
92	Lincoln Ave - McMillan to Lift Station - A89 to A123	74	18" Conc	LF	\$
93	Lincoln Ave - McMillan to Lift Station - A123 to C37	327	18" Conc	LF	\$
94	N Maple Ave - Franklin to Harrison - G9 to G8	368	10" Vit	LF	\$
95	N Maple Ave - Franklin to Harrison - G8 to G6	335	10" Vit	LF	\$
96	S Maple Ave - 17th to 15th - O57 to O58	300	8" VIT	LF	\$
97	S Maple Ave - 17th to 15th - O58 to K9	269	8" VIT	LF	\$
98	S Maple Ave- 17th to 15th - K9 to K8	406	8" VIT	LF	\$

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99	Marathon Ave. - Ridge to Onstad - C35 to C34	343	8" Conc	LF	\$
100	Marathon Ave. - Ridge to Onstad - C34 to C30	400	8" Conc	LF	\$
101	Marathon Ave. - Ridge to Onstad - C31 to C30	221	8" Conc	LF	\$
102	Marathon Ave. - Ridge to Onstad - C32 to C31	318	8" Conc	LF	\$
103	Martin Dr - 917 Martin to George - V46 to V45	176	8" Conc	LF	\$
104	Martin Dr - 917 Martin to George - V45 to V44	97	8" Conc	LF	\$
105	Martin Dr - 915 Martin to 8th - V40 to V39	196	8" Conc	LF	\$
106	Martin Dr - 915 Martin to 8th - V39 to V38	126	8" Conc	LF	\$
107	Martin Dr - 915 Martin to 8th - V38 to V37	231	8" Conc	LF	\$
108	Martin Dr - 915 Martin to 8th - V37 to V36	231	8" Conc	LF	\$
109	S Maryknoll Ave - Mid block to Arlington - T9 to T8	218	8" Conc	LF	\$
110	S Maryknoll Ave - Mid block to Arlington - T8 to T5	225	8" Conc	LF	\$
111	McMillan Street - 423 McMillan to 115 McMillan - B81 to B80	150	8" Conc	LF	\$
112	McMillan Street - 423 McMillan to 115 McMillan - B80 to B79	347	8" Conc	LF	\$
113	McMillan Street - 423 McMillan to 115 McMillan - B79 to B108	146	8" Conc	LF	\$
114	McMillan Street - 423 McMillan to 115 McMillan - B108 to B78	203	8" Conc	LF	\$
115	McMillan Street - 423 McMillan to 115 McMillan - B78 to B77	350	8" Conc	LF	\$
116	McMillan Street - 423 McMillan to 115 McMillan - B77 to B76	340	8" Conc	LF	\$
117	McMillan Street - 423 McMillan to 115 McMillan - B76 to B75	350	8" Conc	LF	\$
118	S Palmetto - 5th to 6th - L49 to L48	298	8" VIT	LF	\$
119	N Peach - 1906 Peach to Mc Millan - B22 to B21	318	8" Conc	LF	\$
120	N Peach - 1906 Peach to Mc Millan - B21 to B20	314	8" Conc	LF	\$
121	N Peach - 1906 Peach to Mc Millan - B20 to B19	258	8" Conc	LF	\$
122	N Peach - 1906 Peach to Mc Millan - B19 to B18	151	8" Conc	LF	\$
123	N Schmidt Ave- Briarwood to Fairview Dr. - C22 to C21	370	8" Conc	LF	\$
124	E Upham Street - 202 Upham to Peach - F70 to F69	136	8" Conc	LF	\$
125	E Upham Street - 202 Upham to Peach - F69 to F68	174	8" Conc	LF	\$

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126	E Upham Street - 202 Upham to Peach - F68 to F67	115	8" Conc	LF	\$
127	W Upham Street - Cemetary to North Hills - A18 to A17	367	8" Conc	LF	\$
128	W Upham Street - Cemetary to North Hills - A17 to A16	375	8" Conc	LF	\$
129	W Upham Street - Cemetary to North Hills - A16 to A15	185	8" Conc	LF	\$
130	W Upham Street - Cemetary to North Hills - A15 to A14	280	8" Conc	LF	\$
131	W Upham Street - North Hills to Veterans frontage - A14 to A13	180	8" Conc	LF	\$
132	W Upham Street - North Hills to Veterans frontage - A13 to A12	377	8" Conc	LF	\$
133	W Upham Street - North Hills to Veterans frontage - A12 to A11	225	8" Conc	LF	\$
134	W Upham Street - North Hills to Veterans frontage - A11 to A10	225	8" Conc	LF	\$
135	W Upham Street - North Hills to Veterans frontage - A10 to A9	387	8" Conc	LF	\$
136	W Upham Street - RR tracks to Lincoln - A8 to A101	200	8" Conc	LF	\$
137	W Upham Street - RR tracks to Lincoln - A101 to A7	180	8" Conc	LF	\$
138	W Upham Street - RR tracks to Lincoln - A7 to A117	169	8" Conc	LF	\$
139	W Upham Street - RR tracks to Lincoln - A117 to A6	224	8" Conc	LF	\$
140	W Upham Street - RR tracks to Lincoln - A6 to A5	380	8" Conc	LF	\$
141	W Upham Street - RR tracks to Lincoln - A5 to A4	412	10" Conc	LF	\$
142	N Walnut Ave. - Edison to Grant - E28 to E27	105	8" VIT	LF	\$
143	N Walnut Ave. - Edison to Grant - E27 to E26	320	8" VIT	LF	\$
144	N Willow Ave - Cleveland to Becker - I10 to I9	368	8" Conc	LF	\$
145	N Willow Ave - Cleveland to Becker - I9 to I8	390	8" Conc	LF	\$
146	#VALUE!	319	8" Conc	LF	\$
147	N Willow Ave - Cleveland to Becker - I7 to I6	70	8" Conc	LF	\$
148	N Willow Ave - Cleveland to Becker - I6 to I5	290	8" Conc	LF	\$
149	N Willow Ave - Cleveland to Becker - I5 to I4	291	8" Conc	LF	\$
150	N Willow Ave - Cleveland to Becker - I4 to I3	291	8" Conc	LF	\$
151	N Willow Ave - Cleveland to Becker - I3 to I33	150	8" Conc	LF	\$
152	Air Test Lateral Connection	379	Air Test	EA	\$

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153	Reinstate Sanitary Lateral	379	Reinstate	EA	\$
154	Grout Seal Sanitary Sewer Lateral	379	Grout	EA	\$
155	Traffic Control	1	Traffic	LS	\$

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In Witness Whereof, the parties have caused this instrument to be executed in three (3) original counterparts on the day and year herein before stated.

Contractor

Address

Address

City, State, Zip

Attest:

All of the Contract Documents have been examined as to form and are approved.

Provision is made to pay the liability that will accrue under this Contract.

By:

Title

CITY OF MARSHFIELD ("OWNER")

Bob McManus, Mayor

Deb M. Hall, City Clerk

Harold Wolfgram, City Attorney

Ron Aumann, Finance Director

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PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that we, _____
_____ as Principal,
and _____ as Surety, are held
and firmly bound unto the City of Marshfield, Wisconsin hereinafter called the Owner, in the penal sum of
_____ Dollars, lawful money of the United
States, for the payment of which sum well and truly made, we bind ourselves, our heirs, executors,
administrators, successors and assigns, jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the Principal has executed and attached a
contract dated _____, 20 _____, for the construction of

_____;

Now therefore, if said attached contract is executed on behalf of the Owner, the Principal shall
well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the proposal,
contract and other contract documents as accepted and any and all duly authorized extensions or
modifications of said contract documents that may hereafter be made, shall pay to each and every
person or party entitled thereto all the claims for work or labor performed or material furnished, including
premiums for Worker's Compensation Insurance, for or in or about or under such contract as provided in
Section 102 and 779 of the Wisconsin Statutes, and any such authorized extension or modification
thereof, then this obligation is to be void; otherwise to remain in full force and effect.

And the said Surety, for value received, hereby stipulates and agrees that no change, alteration
or addition to the terms of the contract or the work to be performed thereunder or the contract
documents accompanying the same shall in any way effect its obligations under this bond, and it does
hereby waive notice of any such change, alteration or addition to the terms of the contract, to the work
or to the contract documents.

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In witness whereof, the above bounden parties have executed this instrument in three original counterparts under their several seals this _____ day of _____, 20 _____

The name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representatives, pursuant to authority of its governing body.

In the presence of:

Individual Principal _____ SEAL

Address _____ Business Address _____

Individual Principal _____

Business Address _____

Attest: _____
Corporate Principal _____

Business Address _____

BY: _____
(Type) CORPORATE SEAL

Attest: _____
Corporate Surety _____

Business Address _____

BY: _____
(Type) CORPORATE SEAL

Approved this _____ day of _____, 20 _____

Deb M. Hall, City Clerk

6cV A WA Ubi g, Mayor

Fcb'5i a Ubb, Finance Director

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ATTACH
CERTIFICATE
OF
INSURANCE
HERE

CERTIFICATE OF INSURANCE

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NOT FOR BIDDING PURPOSES all BIDS shall be submitted on the QUESTCDN website to be considered.

**CITY OF MARSHFIELD, WISCONSIN
PROPOSAL FOR CONTRACT 2020-02
2020 Sanitary Sewer Lining
Project No. 351796**

Bids Received until 4:00 PM

DATE: February 24th, 2020

Bids submitted by the undersigned Bidder to the City of Marshfield, Wisconsin, in accordance with the Notice to Bidders, to furnish and deliver all materials, and to do and perform all work for the above named project, in accordance with the applicable Specifications, Plans, and Special Provisions for the work.

The undersigned Bidder, if awarded the Contract, agrees to begin work not later than ten (10) days after the date of written notification from the City Engineer to do so, and to complete the same in accordance with the Specifications and Special Provisions.

The undersigned Bidder, submitting this Bid, hereby declares and agrees to be bound, and to perform the work in accordance with all the terms, conditions, and requirements of the within and foregoing Proposal, the Contract, the Specifications, the Special Provisions and the Plans.

The Bidder declares that he has carefully examined the project site(s), the Bid, Plans, Specifications, and Contract form for the work contemplated, and it is assured that the bidder has investigated and is satisfied as to the conditions to be encountered as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the Specifications, Plans, Special Provisions, and Contract. It is mutually agreed that submission of a Bid shall be considered conclusive evidence that the Bidder has made such examination.

The Bidder declares that he understands the estimate of quantities in the attached schedule is approximate only and that the attached quantities may be greater or less in accordance with the Specifications.

The Bidder agrees to perform the said work, for and in consideration of the payment of the amount becoming due on account of work performed, according to the unit prices bid in the following schedule, and to accept such amount in full payment for such work.

The Bidder declares that only the persons, firm, or corporation herein named have an interest in this Bid and that the same is submitted without collusion with any person, firm, or corporation.

The Bidder declares that if he is awarded the Contract, he will execute the Contract agreement and begin and complete the work within the time named herein and he will file a contract bond in the sum of the total amount of the Contract to guarantee the successful execution of the work and will comply with the requirements of Chapter 102 of the Wisconsin Statutes dealing with Worker's Compensation.

The Bidder declares that if he is awarded the Contract, he will comply with the requirements relative to the maximum daily and weekly hours of labor and the Minimum Wage Rates set for various occupations or classifications of labor.

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BID 'A'
2020 Sanitary Sewer Lining
Project No. 351796

Item No.	On Street - (FROM) - (TO) - (MH#) - (MH#)	Pipe Length	Pipe Size	Unit	Unit Price	Total Amount
1	E 3rd Street - Cedar to Maple - J57 to J39	390	8L	LF		
2	E 6th Street - Apple to Peach - L47 to L42	390	8" Conc	LF		\$
3	W 6th Street - Adams to East of Hardacre - V58 to W31	213	8" VIT	LF		\$
4	W 6th Street - Adams to East of Hardacre - W31 to W30	213	8" VIT	LF		\$
5	W 6th Street - Adams to East of Hardacre - W30 to W29	208	8" VIT	LF		\$
6	W 13th Street - Locust to Adams - Y28 to Y27	397	8" Conc	LF		\$
7	W 13th Street - Locust to Adams - Y27 to Y26	397	8" Conc	LF		\$
8	W 14th Street - Lincoln to Adams - Y34 to Y33	350	8" Conc	LF		\$
9	W 14th Street - Lincoln to Adams - Y33 to Y32	350	8" Conc	LF		\$
10	W 14th Street - Lincoln to Adams - Y32 to Y31	330	10" Conc	LF		\$
11	W 14th Street - Lincoln to Adams - Y31 to Y30	320	12" Conc	LF		\$
12	W 14th Street - Lincoln to Adams - Y30 to Y29	320	15" Conc	LF		\$
13	W 14th Street - Lincoln to Adams - Y29 to Y25	320	15" Conc	LF		\$
14	E 15th Street - Felker to the west - P62 to L5	222	8" Conc	LF		\$
15	E 25th Street - Maywood to Butternut Pky - Q43 to Q42	290	8" Conc	LF		\$
16	E 25th Street - Maywood to Butternut Pky - Q42 to Q41	128	8" Conc	LF		\$
17	E 26th Street - Maywood to Washington - Q27 to Q26	319	8" Conc	LF		\$
18	E 26th Street - Maywood to Washington - Q26 to Q25	316	8" Conc	LF		\$
19	E 26th Street - Maywood to Washington - Q25 to Q20	333	8" Conc	LF		\$
20	E 27th Street - Hume to Aspen - R17 to R16	315	8" Conc	LF		\$
21	E 27th Street - Hume to Aspen - R16 to R15	330	8" Conc	LF		\$
22	E 27th Street - Hume to Aspen - R15 to R14	330	10" Conc	LF		\$
23	E 27th Street - Hume to Aspen - R14 to R13	330	10" Conc	LF		\$

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24	N Adams Ave. - south mid block to Fairview - C29 to C28	199	8" Conc	LF	\$
25	S Adams Ave - 13th to 14th - Y26 to Y25	330	8" Conc	LF	\$
26	S Adams Ave - 14th to 17th - Y25 to Y24	328	12" Conc	LF	\$
27	S Adams Ave - 14th to 17th - Y24 to Y122	207	12" Conc	LF	\$
28	S Adams Ave - 14th to 17th - Y122 to Y23	121	12" Conc	LF	\$
29	S Adams Ave - 14th to 17th - Y23 to Y22	328	15" Conc	LF	\$
30	S Adams Ave - 14th to 17th - Y22 to Y17	328	15" Conc	LF	\$
31	Anton Ave. - 4th to Anton - S21 to S20	104	10" CI	LF	\$
32	S Ash Ave. - 2nd to 3rd - L59A to L59	217	8" VIT	LF	\$
33	Becker Road - N Apple to N Palmetto - H9 to H8	285	8" Conc	LF	\$
34	Becker Road - N Apple to N Palmetto - H8 to H7	300	8" Conc	LF	\$
35	Becker Road - N Apple to N Palmetto - H7 to H6	300	8" Conc	LF	\$
36	Becker Road - 2408 becker to Anton - I42 to I41	270	8" Conc	LF	\$
37	Becker Road - 2408 becker to Anton - I41 to I40A	153	8" Conc	LF	\$
38	Becker Road - 2408 becker to Anton - I40 to I39	322	8" Conc	LF	\$
39	Becker Road - Hume to Willow - I34 to I33	301	10" Conc	LF	\$
40	Becker Road - Willow intersection - I33 to H1	48	10" Conc	LF	\$
41	Becker Road - Willow intersection - I33 to H67	79	10" Conc	LF	\$
42	Becker Road - Willow intersection - H1 to H67	62	15" Conc	LF	\$
43	W Blodgett Street - West of Marathon to Lincoln - C14 to C13	242	8" Conc	LF	\$
44	W Blodgett Street - West of Marathon to Lincoln - C13 to C12	240	8" Conc	LF	\$
45	W Blodgett Street - West of Marathon to Lincoln - C12 to C11	271	8" Conc	LF	\$
46	W Blodgett Street - West of Marathon to Lincoln - C11 to C10	268	8" Conc	LF	\$
47	W Blodgett Street - West of Marathon to Lincoln - C10 to C9	268	8" Conc	LF	\$
48	W Blodgett Street - West of Marathon to Lincoln - C9 to C8	249	8" Conc	LF	\$
49	W Blodgett Street - West of Marathon to Lincoln - C8 to C7	250	8" Conc	LF	\$
50	W Blodgett Street - West of Marathon to Lincoln - C7 to C6	403	8" Conc	LF	\$
51	W Blodgett Street - West of Marathon to Lincoln - C6 to C5	401	8" Conc	LF	\$
52	Broadway Ave. - clinic parking lot to Western - D94 to D75	184	8" VIT	LF	\$

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53	Broadway Ave. - clinic parking lot to Western - D75 to D70	316	8" VIT	LF	\$
54	N Cedar Ave. - Grant to Ives - G19 to F110	362	12" Conc	LF	\$
55	N Cedar Ave. - Grant to Ives - F110 to F109	229	18" Conc	LF	\$
56	N Cedar Ave. - Grant to Ives - F109 to F108	348	18" Conc	LF	\$
57	S Central Ave - N Figis to Praschak Park - N17 to O65	282	12" Conc	LF	\$
58	E Emerald Street - Anton to Juniper - I47 to I46	303	8" Conc	LF	\$
59	E Emerald Street - Anton to Juniper - I46 to I45	304	8" Conc	LF	\$
60	Fillmore Street- Anton to Willow - I27 to I26	292	8" Conc	LF	\$
61	Fillmore Street- Anton to Willow - I26 to I25	240	8" Conc	LF	\$
62	Fillmore Street- Anton to Willow - I25 to I19	240	8" Conc	LF	\$
63	Fillmore Street- Anton to Willow - I19 to I14	319	8" Conc	LF	\$
64	Fillmore Street- Anton to Willow - I14 to I13	201	8" Conc	LF	\$
65	Fillmore Street- Anton to Willow - I13 to I7	205	8" Conc	LF	\$
66	George Dr - 1006 George to 8th - V47 to V44	110	8" Conc	LF	\$
67	George Dr - 1006 George to 8th - V44 to V43	153	8" Conc	LF	\$
68	George Dr - 1006 George to 8th - V43 to V42	282	8" Conc	LF	\$
69	Hintz Street - Galvin to Anton - I52 to I51	305	8" Conc	LF	\$
70	Hintz Street - Galvin to Anton - I51 to I50	291	8" Conc	LF	\$
71	Hintz Street - Galvin to Anton - I50 to I49	320	8" Conc	LF	\$
72	Hintz Street - Galvin to Anton - I49 to I48	322	8" Conc	LF	\$
73	N Hume Ave. - Blodgett to Filmore - I18 to I17	220	8" Conc	LF	\$
74	N Hume Ave. - Blodgett to Filmore - I17 to I16	328	8" Conc	LF	\$
75	N Hume Ave. - Blodgett to Filmore - I16 to I15	372	8" Conc	LF	\$
76	N Hume Ave. - Blodgett to Filmore - I15 to I58	110	8" Conc	LF	\$
77	N Hume Ave. - Blodgett to Filmore - I58 to I14	266	8" Conc	LF	\$
78	E Ives Street - Cedar to Peach - F108 to F107	355	18" Conc	LF	\$
79	E Ives Street - Cedar to Peach - F107 to F106	298	18" Conc	LF	\$
80	E Ives Street - Cedar to Peach - F106 to F105	299	18" Conc	LF	\$
81	E Ives Street - Cedar to Peach - F105 to F104	386	18" Conc	LF	\$

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NOT FOR BIDDING PURPOSES all BIDS shall be submitted on the QUESTCDN website to be considered.

82	Juniper Ave. - Emerald to Becker - I45 to I44	311	8" Conc	LF	\$
83	Karau Drive - South mid block to 4th - S52 to S31	175	8" Conc	LF	\$
84	Lincoln Ave - McMillan to Lift Station - A97 to A38	141	18" Conc	LF	\$
85	Lincoln Ave - McMillan to Lift Station - A38 to A95	228	18" Conc	LF	\$
86	Lincoln Ave - McMillan to Lift Station - A95 to A35	258	18" Conc	LF	\$
87	Lincoln Ave - McMillan to Lift Station - A35 to A93	377	18" Conc	LF	\$
88	Lincoln Ave - McMillan to Lift Station - A93 to A92	380	18" Conc	LF	\$
89	Lincoln Ave - McMillan to Lift Station - A92 to A4	380	18" Conc	LF	\$
90	Lincoln Ave - McMillan to Lift Station - A4 to A90	403	18" Conc	LF	\$
91	Lincoln Ave - McMillan to Lift Station - A90 to A89	403	18" Conc	LF	\$
92	Lincoln Ave - McMillan to Lift Station - A89 to A123	74	18" Conc	LF	\$
93	Lincoln Ave - McMillan to Lift Station - A123 to C37	327	18" Conc	LF	\$
94	N Maple Ave - Franklin to Harrison - G9 to G8	368	10" Vit	LF	\$
95	N Maple Ave - Franklin to Harrison - G8 to G6	335	10" Vit	LF	\$
96	S Maple Ave - 17th to 15th - O57 to O58	300	8" VIT	LF	\$
97	S Maple Ave - 17th to 15th - O58 to K9	269	8" VIT	LF	\$
98	S Maple Ave- 17th to 15th - K9 to K8	406	8" VIT	LF	\$
99	Marathon Ave. - Ridge to Onstad - C35 to C34	343	8" Conc	LF	\$
100	Marathon Ave. - Ridge to Onstad - C34 to C30	400	8" Conc	LF	\$
101	Marathon Ave. - Ridge to Onstad - C31 to C30	221	8" Conc	LF	\$
102	Marathon Ave. - Ridge to Onstad - C32 to C31	318	8" Conc	LF	\$
103	Martin Dr - 917 Martin to George - V46 to V45	176	8" Conc	LF	\$
104	Martin Dr - 917 Martin to George - V45 to V44	97	8" Conc	LF	\$
105	Martin Dr - 915 Martin to 8th - V40 to V39	196	8" Conc	LF	\$
106	Martin Dr - 915 Martin to 8th - V39 to V38	126	8" Conc	LF	\$
107	Martin Dr - 915 Martin to 8th - V38 to V37	231	8" Conc	LF	\$
108	Martin Dr - 915 Martin to 8th - V37 to V36	231	8" Conc	LF	\$
109	S Maryknoll Ave - Mid block to Arlington - T9 to T8	218	8" Conc	LF	\$
110	S Maryknoll Ave - Mid block to Arlington - T8 to T5	225	8" Conc	LF	\$

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111	McMillan Street - 423 McMillan to 115 McMillan - B81 to B80	150	8" Conc	LF	\$
112	McMillan Street - 423 McMillan to 115 McMillan - B80 to B79	347	8" Conc	LF	\$
113	McMillan Street - 423 McMillan to 115 McMillan - B79 to B108	146	8" Conc	LF	\$
114	McMillan Street - 423 McMillan to 115 McMillan - B108 to B78	203	8" Conc	LF	\$
115	McMillan Street - 423 McMillan to 115 McMillan - B78 to B77	350	8" Conc	LF	\$
116	McMillan Street - 423 McMillan to 115 McMillan - B77 to B76	340	8" Conc	LF	\$
117	McMillan Street - 423 McMillan to 115 McMillan - B76 to B75	350	8" Conc	LF	\$
118	S Palmetto - 5th to 6th - L49 to L48	298	8" VIT	LF	\$
119	N Peach - 1906 Peach to Mc Millan - B22 to B21	318	8" Conc	LF	\$
120	N Peach - 1906 Peach to Mc Millan - B21 to B20	314	8" Conc	LF	\$
121	N Peach - 1906 Peach to Mc Millan - B20 to B19	258	8" Conc	LF	\$
122	N Peach - 1906 Peach to Mc Millan - B19 to B18	151	8" Conc	LF	\$
123	N Schmidt Ave- Briarwood to Fairview Dr. - C22 to C21	370	8" Conc	LF	\$
124	E Upham Street - 202 Upham to Peach - F70 to F69	136	8" Conc	LF	\$
125	E Upham Street - 202 Upham to Peach - F69 to F68	174	8" Conc	LF	\$
126	E Upham Street - 202 Upham to Peach - F68 to F67	115	8" Conc	LF	\$
127	W Upham Street - Cemetary to North Hills - A18 to A17	367	8" Conc	LF	\$
128	W Upham Street - Cemetary to North Hills - A17 to A16	375	8" Conc	LF	\$
129	W Upham Street - Cemetary to North Hills - A16 to A15	185	8" Conc	LF	\$
130	W Upham Street - Cemetary to North Hills - A15 to A14	280	8" Conc	LF	\$
131	W Upham Street - North Hills to Veterans frontage - A14 to A13	180	8" Conc	LF	\$
132	W Upham Street - North Hills to Veterans frontage - A13 to A12	377	8" Conc	LF	\$
133	W Upham Street - North Hills to Veterans frontage - A12 to A11	225	8" Conc	LF	\$
134	W Upham Street - North Hills to Veterans frontage - A11 to A10	225	8" Conc	LF	\$
135	W Upham Street - North Hills to Veterans frontage - A10 to A9	387	8" Conc	LF	\$
136	W Upham Street - RR tracks to Lincoln - A8 to A101	200	8" Conc	LF	\$
137	W Upham Street - RR tracks to Lincoln - A101 to A7	180	8" Conc	LF	\$
138	W Upham Street - RR tracks to Lincoln - A7 to A117	169	8" Conc	LF	\$
139	W Upham Street - RR tracks to Lincoln - A117 to A6	224	8" Conc	LF	\$

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140	W Upham Street - RR tracks to Lincoln - A6 to A5	380	8" Conc	LF	\$
141	W Upham Street - RR tracks to Lincoln - A5 to A4	412	10" Conc	LF	\$
142	N Walnut Ave. - Edison to Grant - E28 to E27	105	8" VIT	LF	\$
143	N Walnut Ave. - Edison to Grant - E27 to E26	320	8" VIT	LF	\$
144	N Willow Ave - Cleveland to Becker - I10 to I9	368	8" Conc	LF	\$
145	N Willow Ave - Cleveland to Becker - I9 to I8	390	8" Conc	LF	\$
146	N Willow Ave - Cleveland to Becker - I8 to I7	319	8" Conc	LF	\$
147	N Willow Ave - Cleveland to Becker - I7 to I6	70	8" Conc	LF	\$
148	N Willow Ave - Cleveland to Becker - I6 to I5	290	8" Conc	LF	\$
149	N Willow Ave - Cleveland to Becker - I5 to I4	291	8" Conc	LF	\$
150	N Willow Ave - Cleveland to Becker - I4 to I3	291	8" Conc	LF	\$
151	N Willow Ave - Cleveland to Becker - I3 to I33	150	8" Conc	LF	\$
152	Air Test Lateral Connection	379	Air Test	EA	\$
153	Reinstate Sanitary Lateral	379	Reinstate	EA	\$
154	Grout Seal Sanitary Sewer Lateral	379	Grout	EA	\$
155	Traffic Control	1	Traffic	LS	\$

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NOT FOR BIDDING PURPOSES all BIDS shall be submitted on the **QUESTCDN** website to be considered.

BID SUMMARY

TOTAL AMOUNT OF BID 'A' \$ _____

CONTRACTOR

DATE: _____

WE _____ (NAME OF BIDDER) have examined the Bidding Documents and the following Addenda (receipt of which is hereby acknowledged)

ADDENDUM NO.

DATE:

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NOT FOR BIDDING PURPOSES all BIDS shall be submitted on the QUESTCDN website to be considered.

PROPOSAL SUMMARY

I hereby certify that all the statements herein are made on behalf of

(Name of Corporation, Partnership, or Person Submitting Bid)

a Corporation organized and existing under the laws of the state of _____ :

a Partnership consisting of _____ :

an Individual trading as _____ :

Of the City of _____ State of _____ :

that I have examined and carefully prepared this Proposal from the Plans and Specifications and have checked the same in detail before submitting this Proposal; that I have full authority to make such statements and submit this Proposal in its (their) behalf; and that the statements are true and correct.

Signature

Subscribed and sworn before me this _____ day of _____, 2018.

Notary Public

My Commission Expires: _____

Bidders should not add any conditions or qualifying statements to this Proposal, as otherwise the Proposal may be declared irregular as not being responsive to the advertisement.

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ATTACH

BID

GUARANTEE

HERE

BID GUARANTEE

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2020-2021 Sanitary Sewer System Lining Contract *City of Marshfield*

Sanitary Basin Pages

A	4, 9
B	10, 4, 5, 6, 7, 8
C	13, 4, 9
D	10, 13, 14, 4, 9
E	10, 14, 4, 5, 9
F	10, 11, 14, 15, 5, 6, 7, 8
G	10, 14
H	11, 14, 15, 17, 18
I	11, 15, 18
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L	14, 17, 20
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T	12, 13, 16
U	13, 9
V	13, 16
W	13, 14, 16
X	13, 14, 16, 17
Y	16, 17, 19, 19B, 22
Z	2, 3, 4

Contracted Lining

○ Manhole

✕ Abandoned Manhole

1265.7 Rim Elevation
6.5 Depth to Flowline

→ Sewer Line

✕✕✕ Abandoned Sewer Line

8-8C-L Slope - Pipe Size & Pipe Material
288 Pipe Length

★ ★ Blowbacks

Abbreviations

AC-L Asbestos Cement Transite (Lined)

AC Asbestos Cement Transite

CI Cast Iron

C Concrete

C-L Concrete (Lined)

DI Ductile Iron

ELC Epoxy Lined Concrete

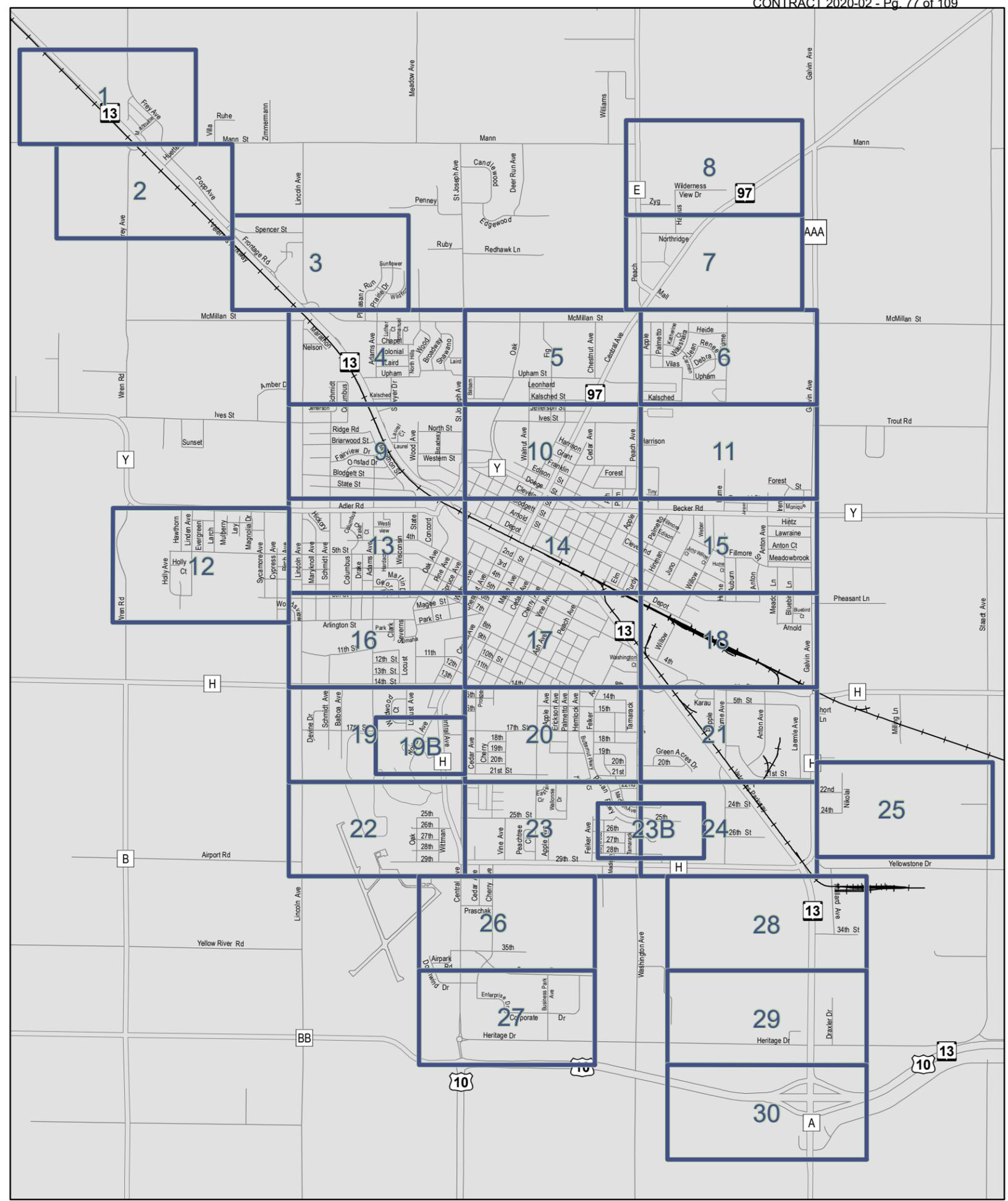
HDPE High Density Polyethalene

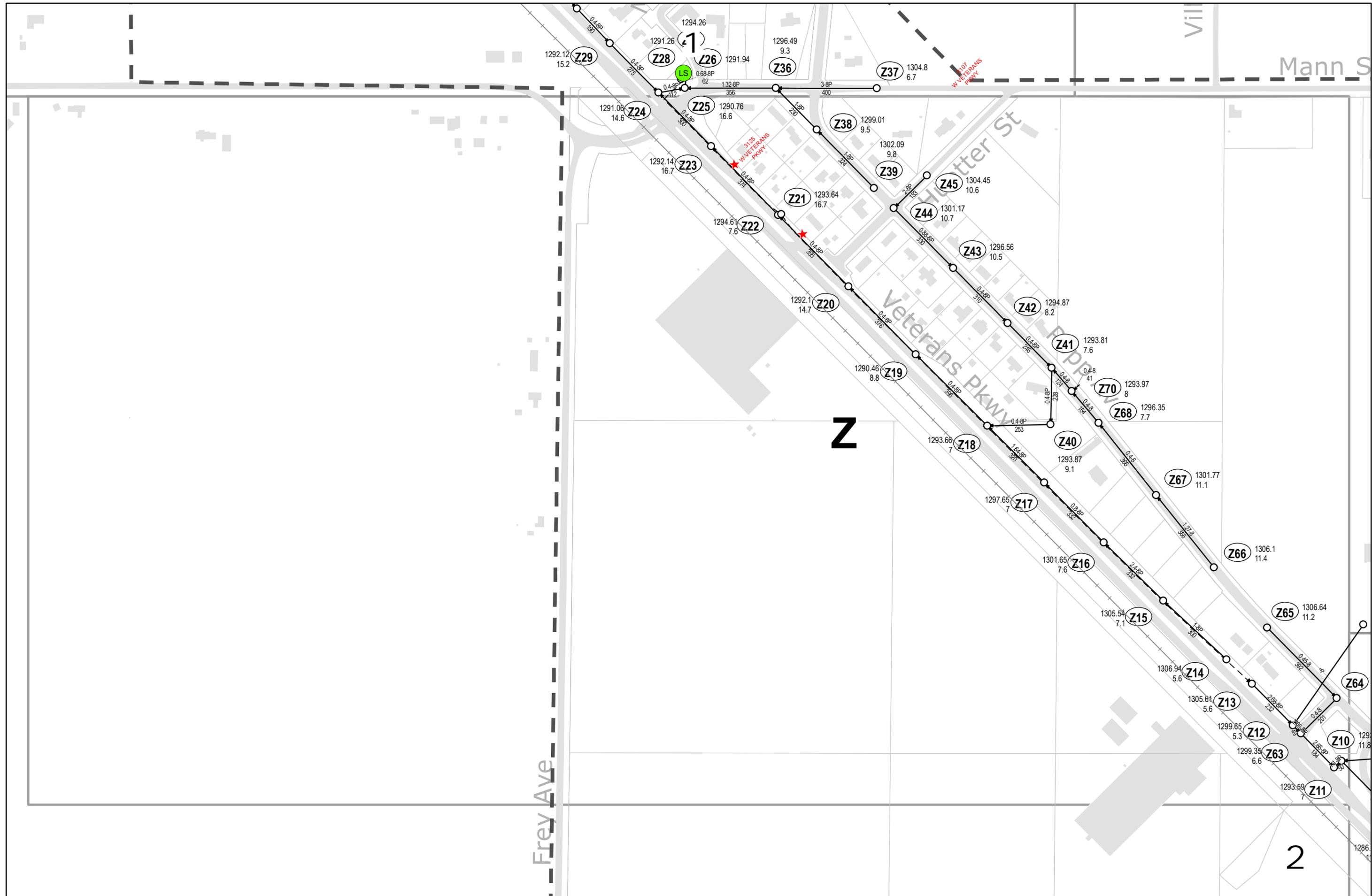
P Plastic

P-L Plastic (Lined)

VIT Vitrified Clay

VIT-L Vitrified Clay (Lined)





Mann St

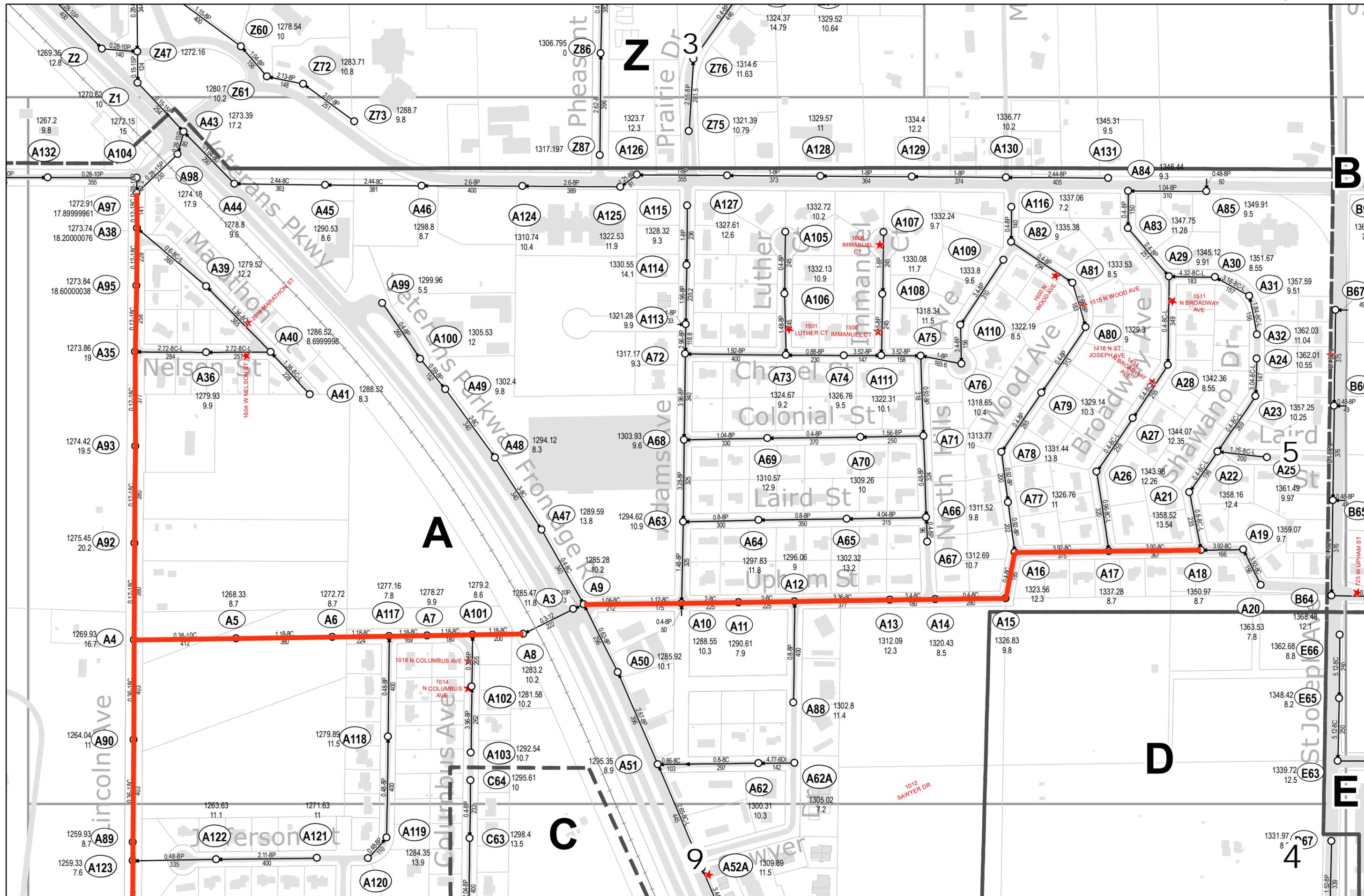
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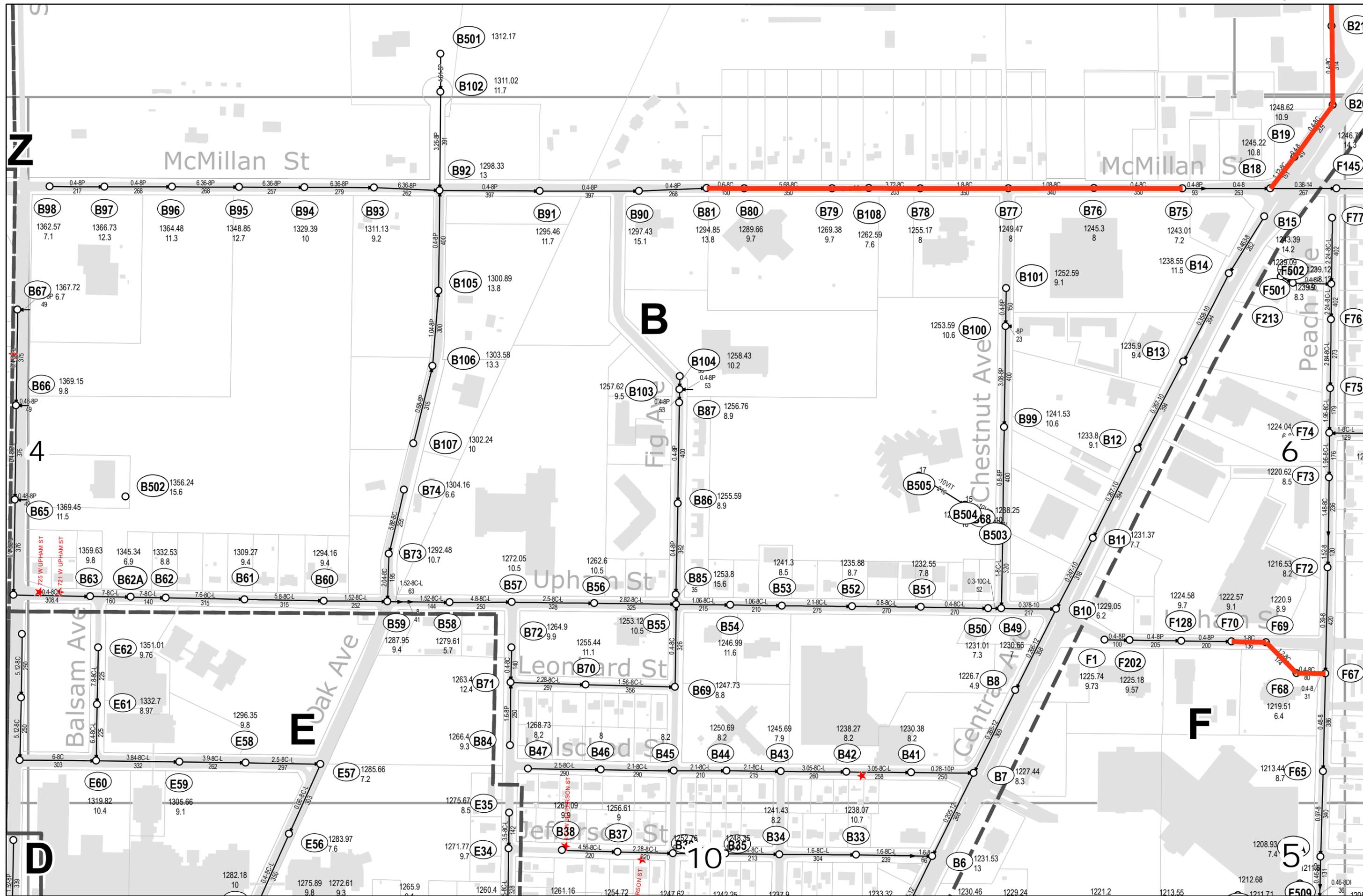
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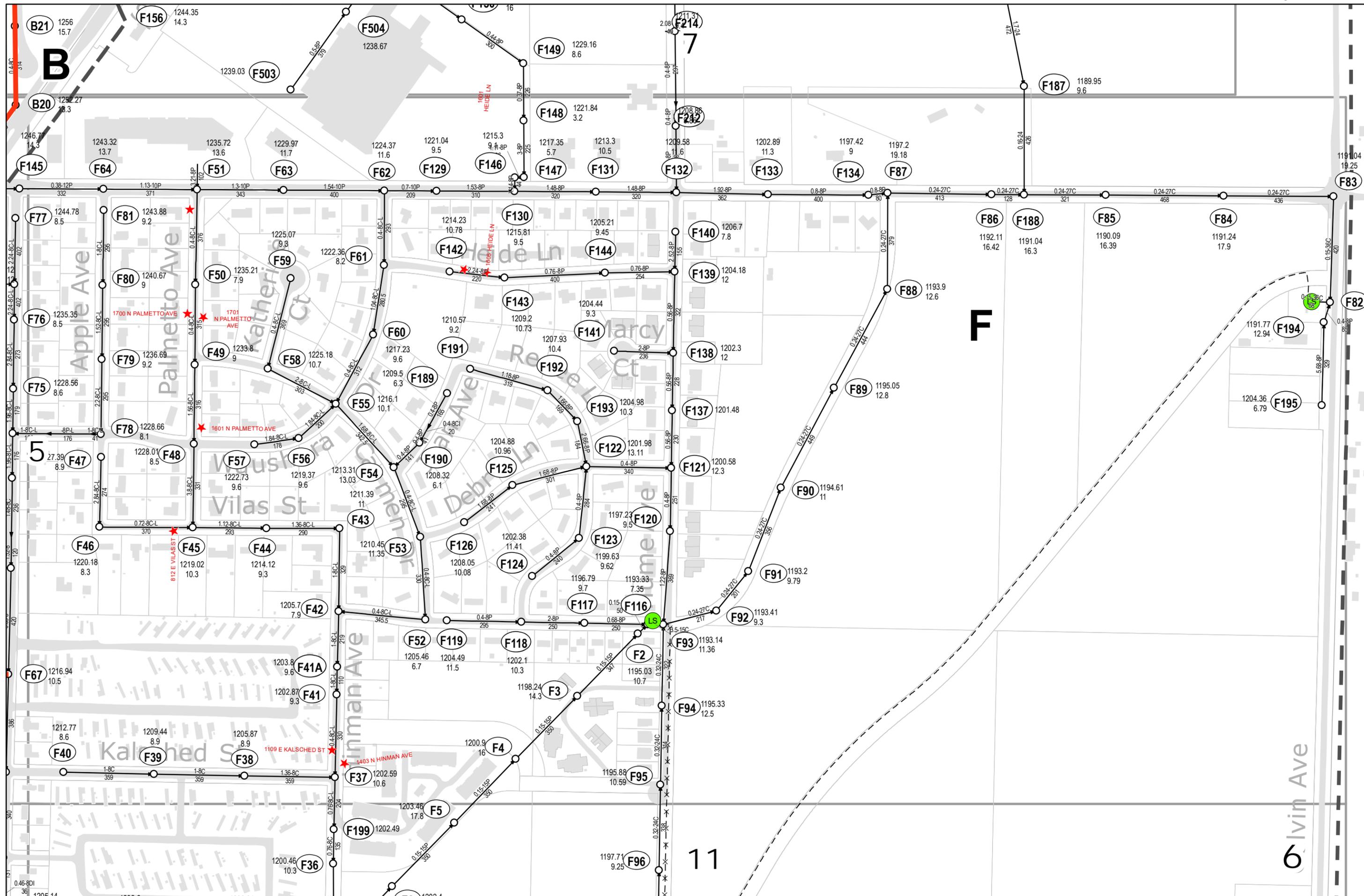
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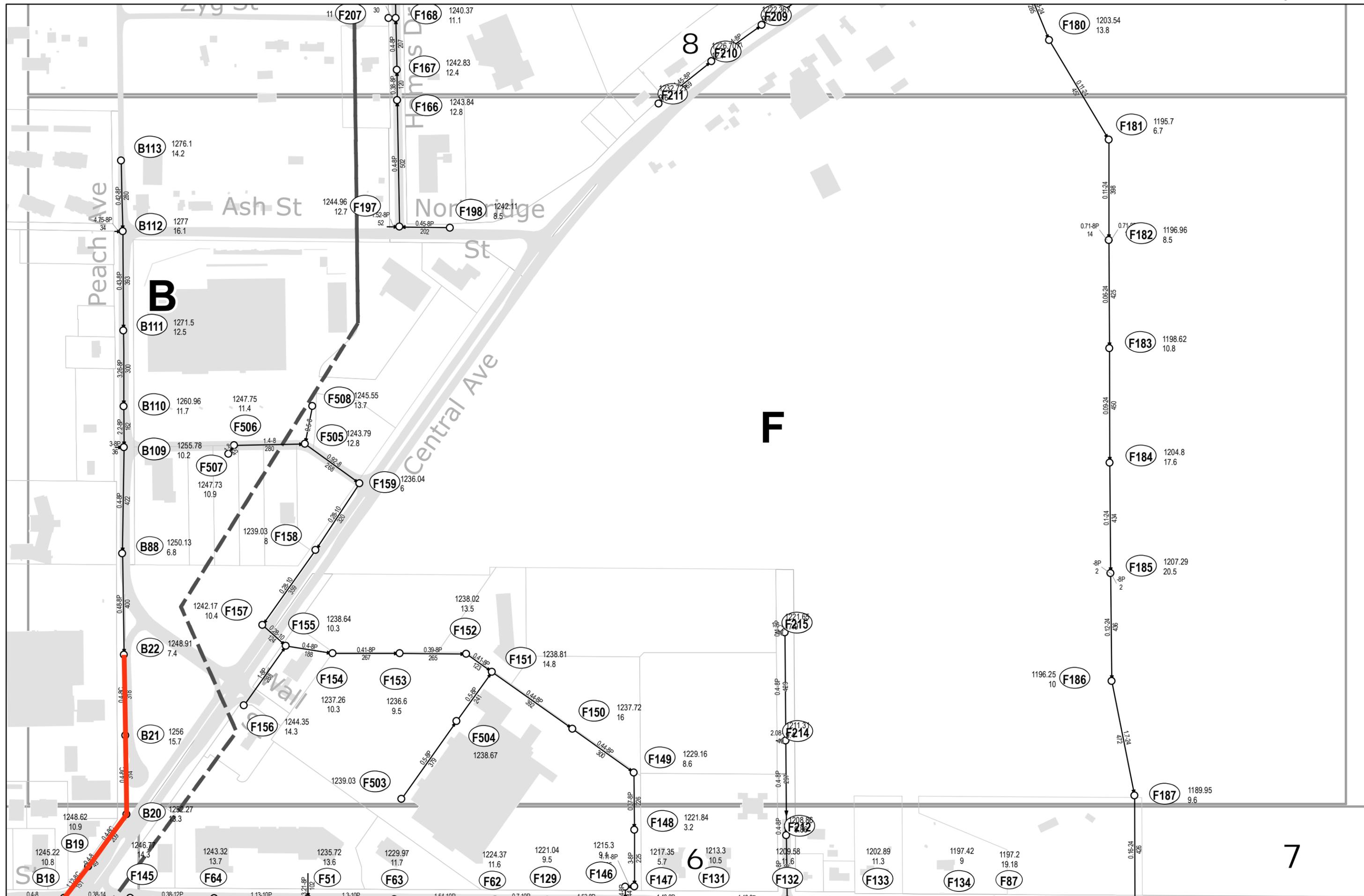
Veterans Pkwy

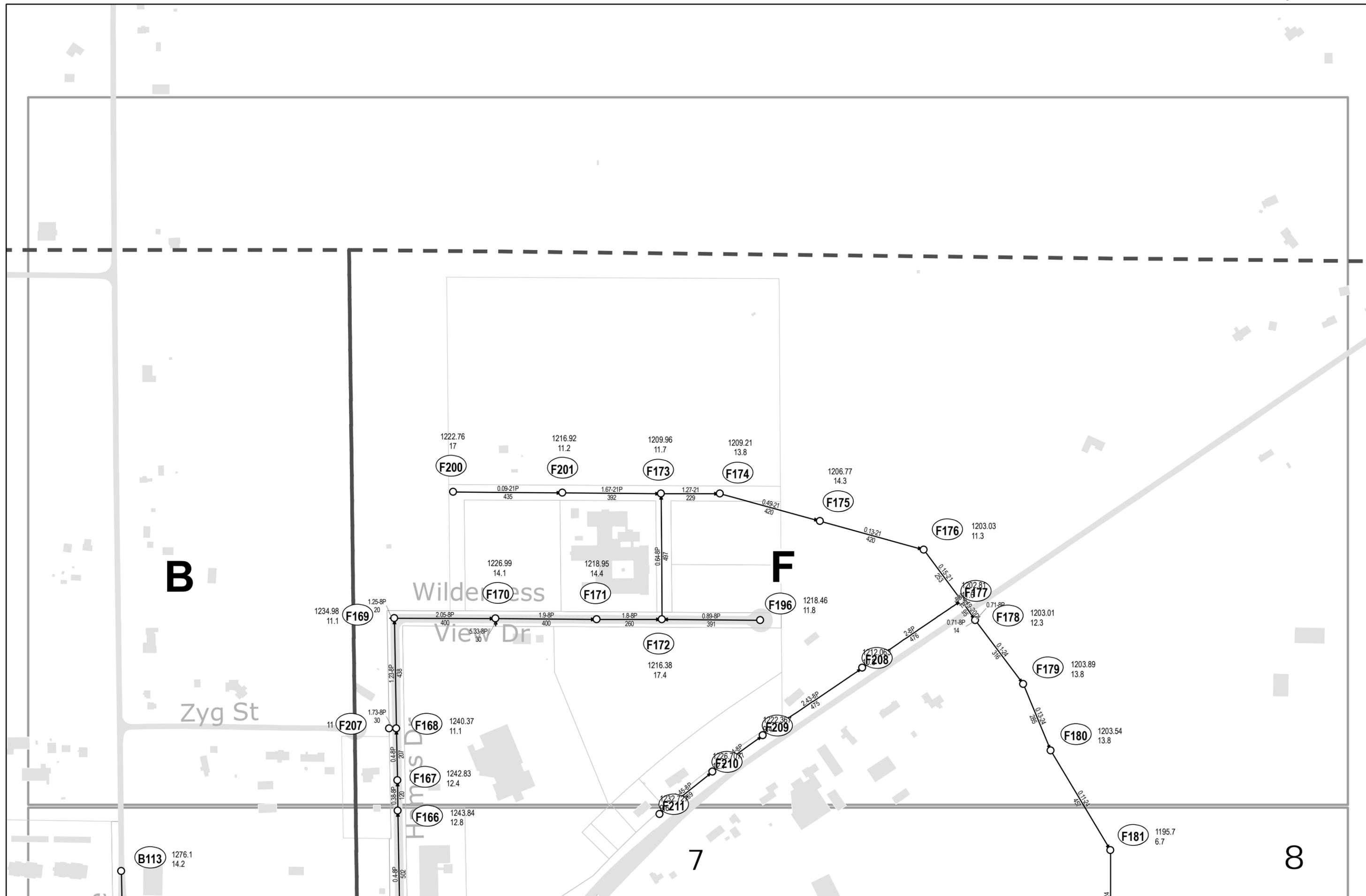
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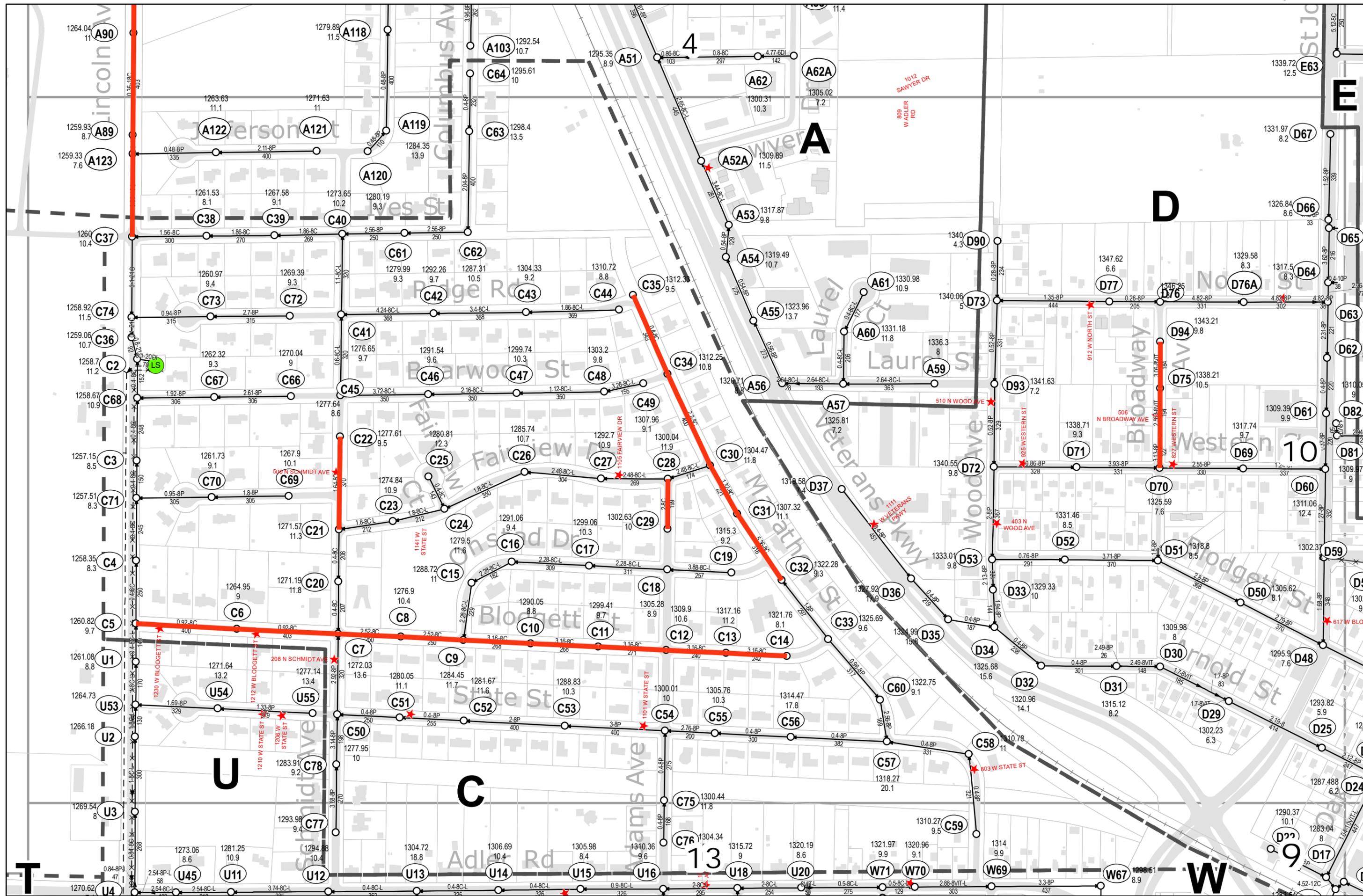


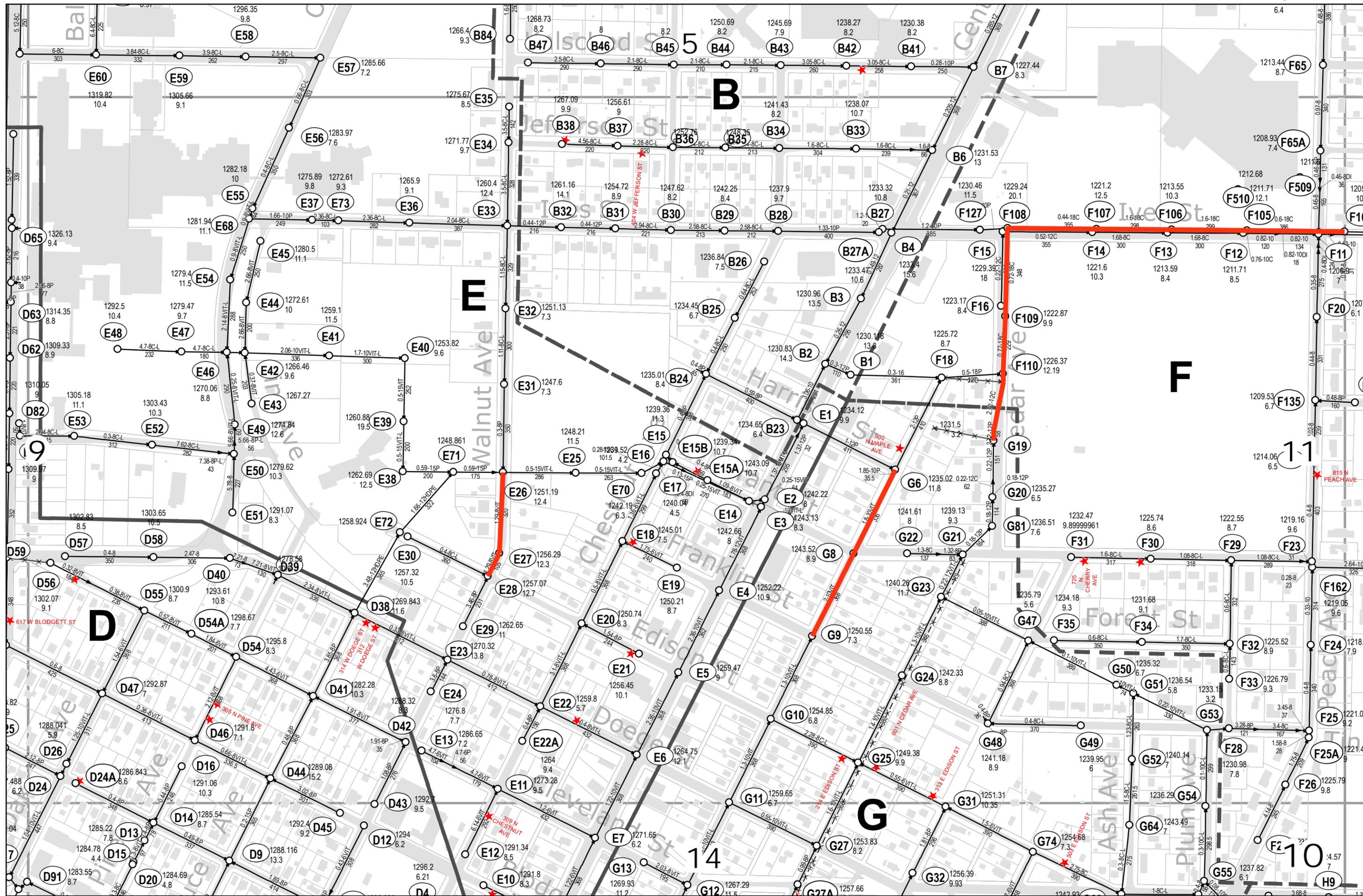


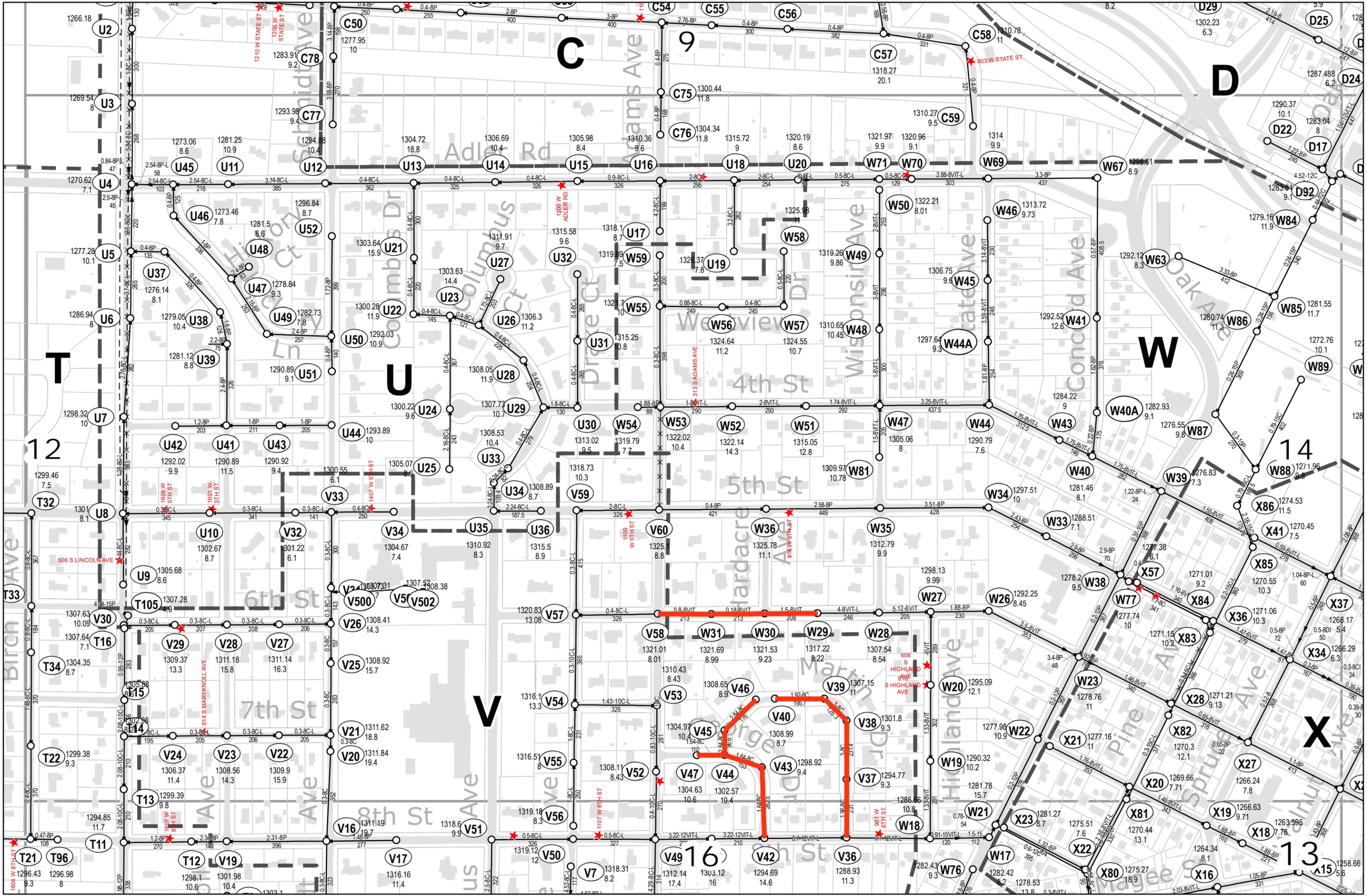


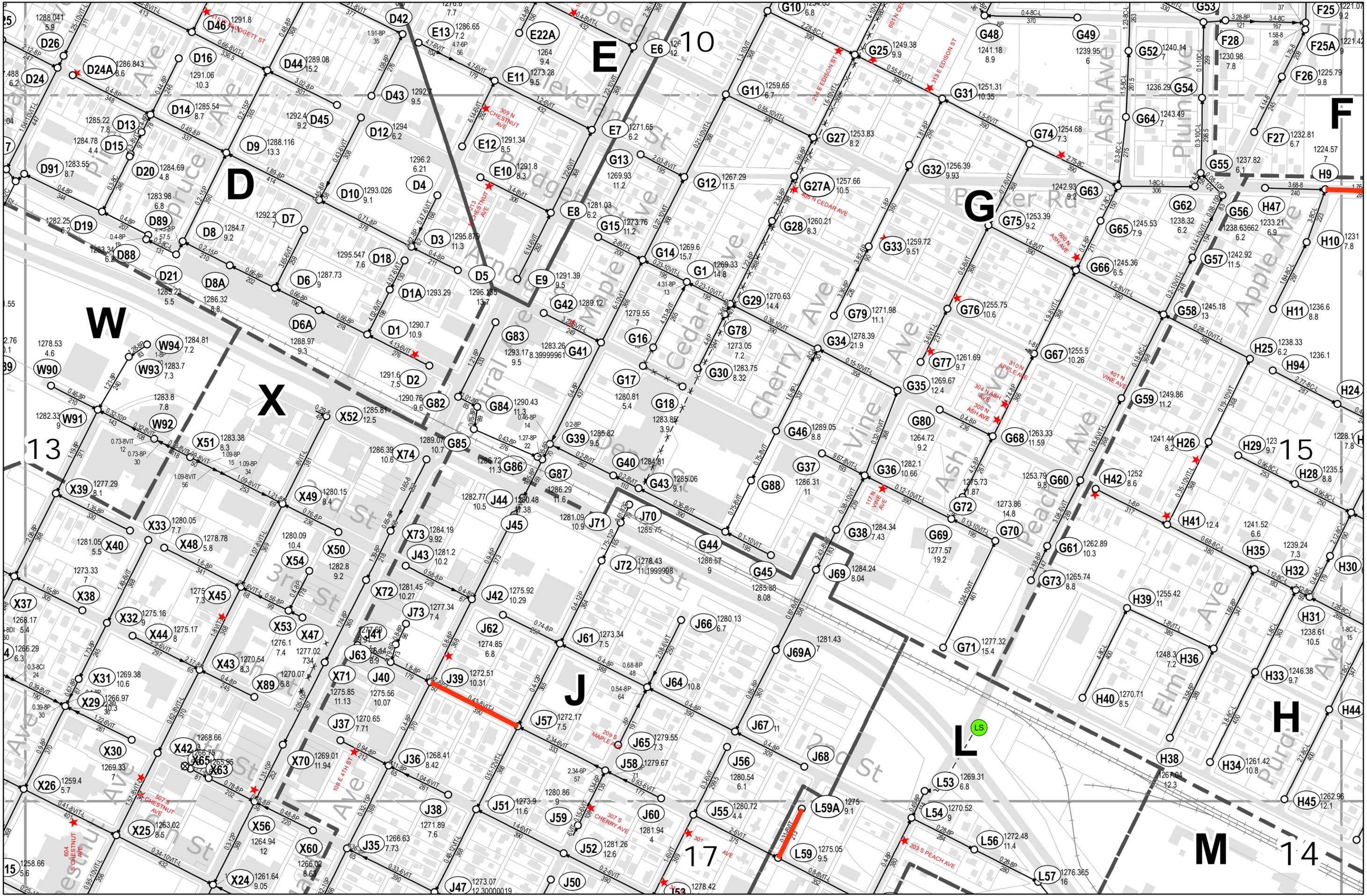


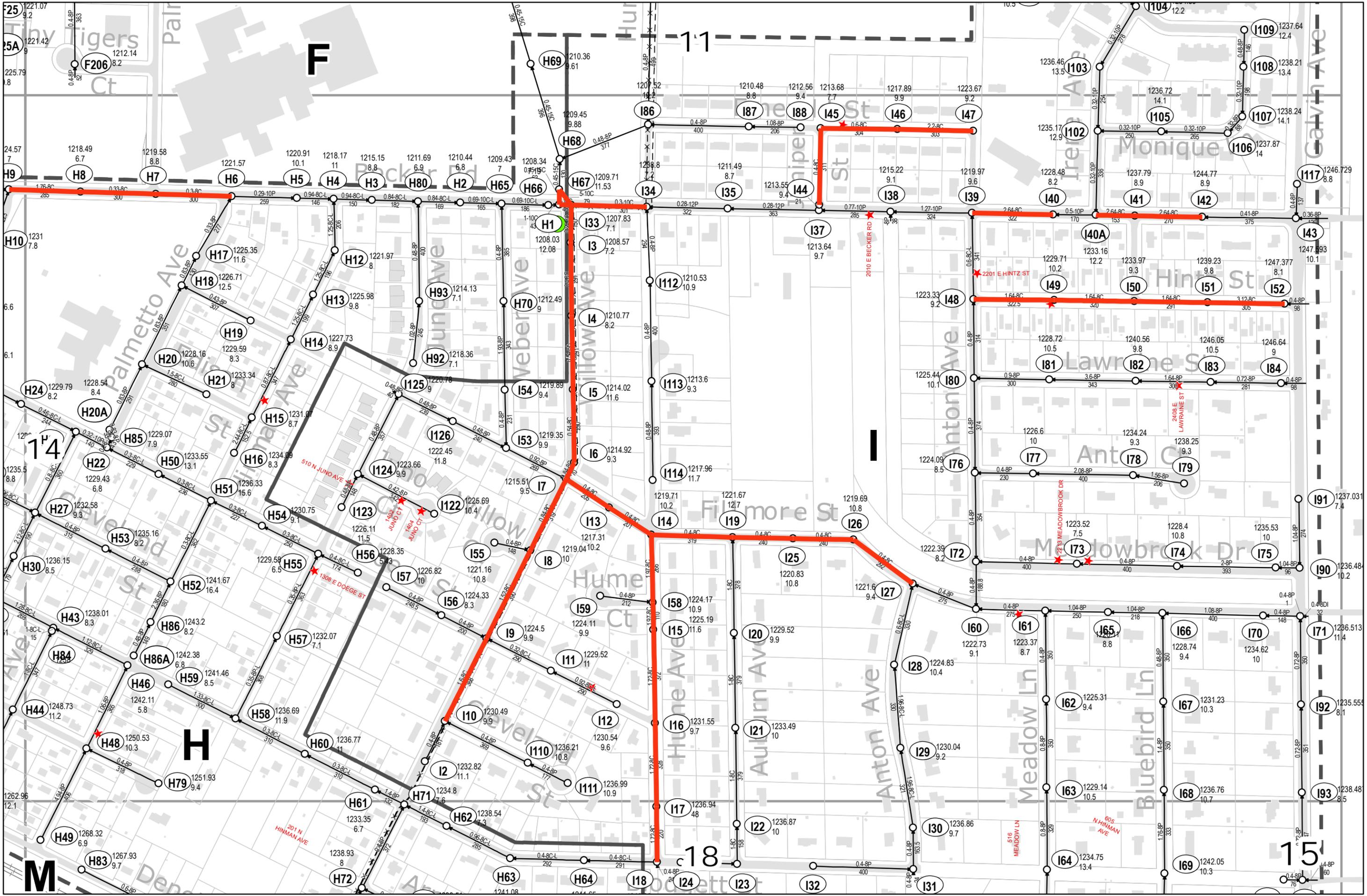


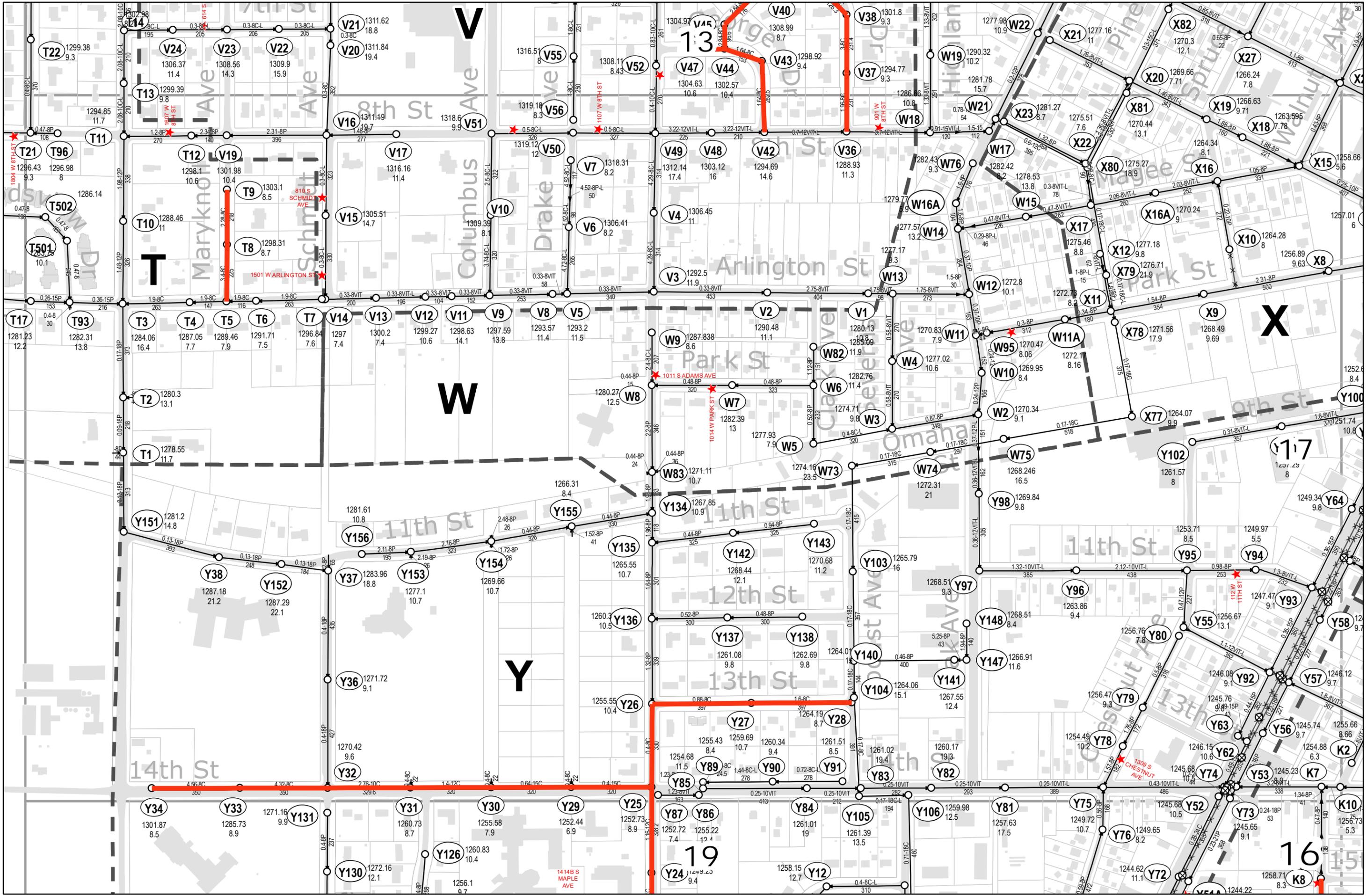












T

Maryknoll Ave

Schmitt Ave

1501 W ARLINGTON ST

810 S SCHMIDT AVE

V

Columbus Ave

Drake Ave

1107 W 8TH ST

W

Arlington St

1011 S ADAMS AVE

1014 W PARK ST

X

Highline Ave

12th St

11th St

Y

14th St

13th St

12th St

11th St

Z

14th St

13th St

12th St

11th St

19

14th St

13th St

12th St

11th St

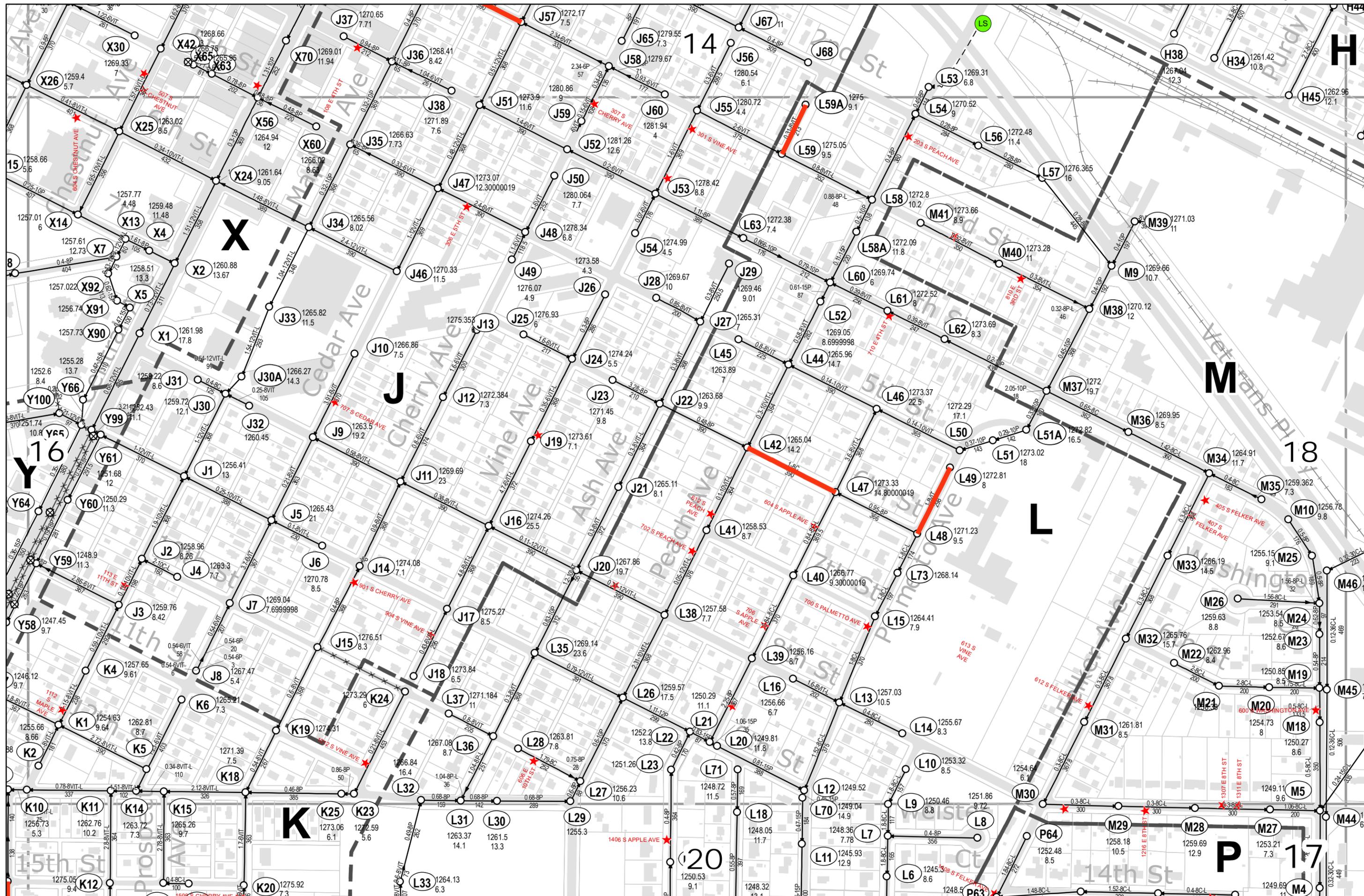
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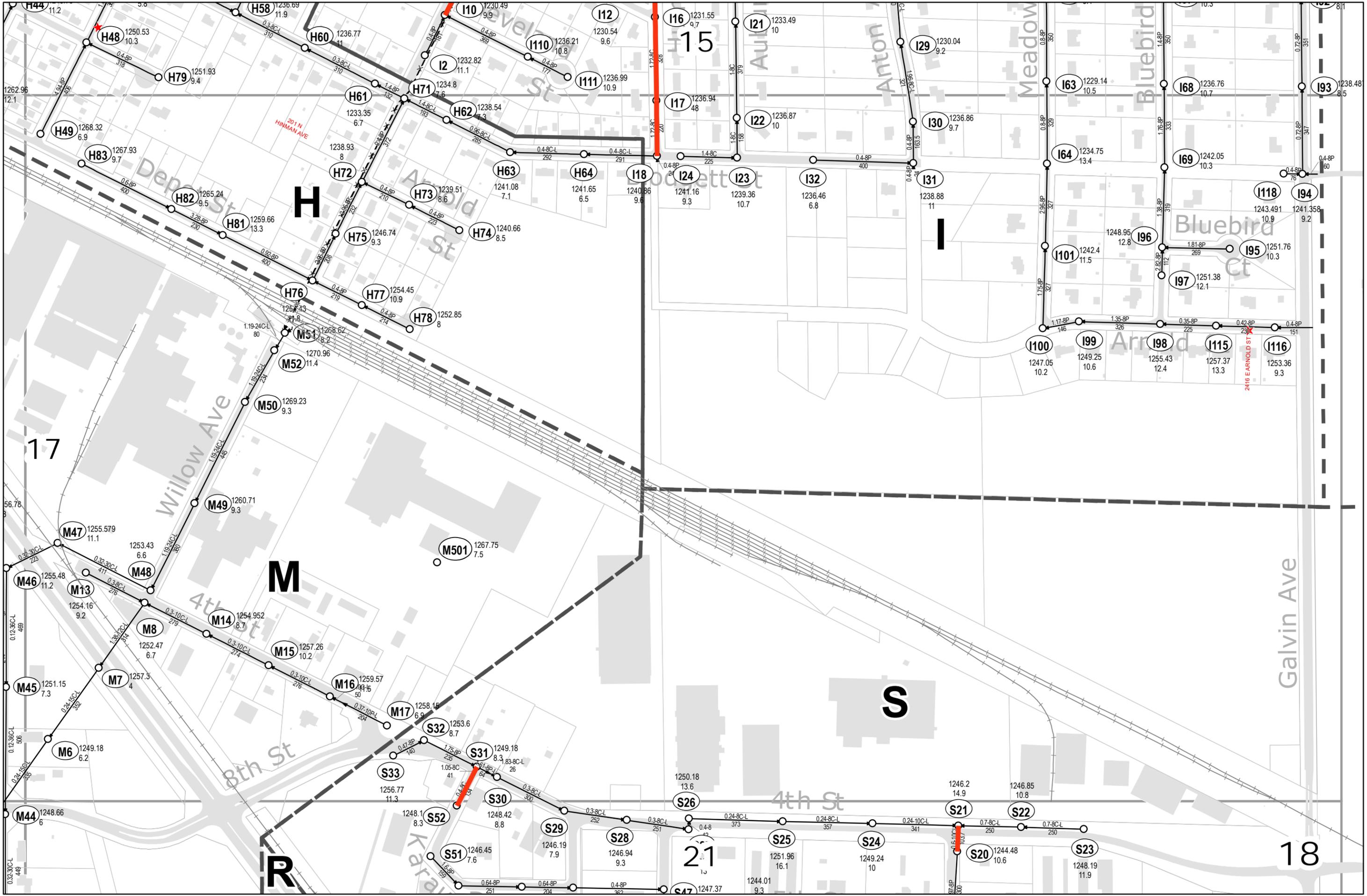
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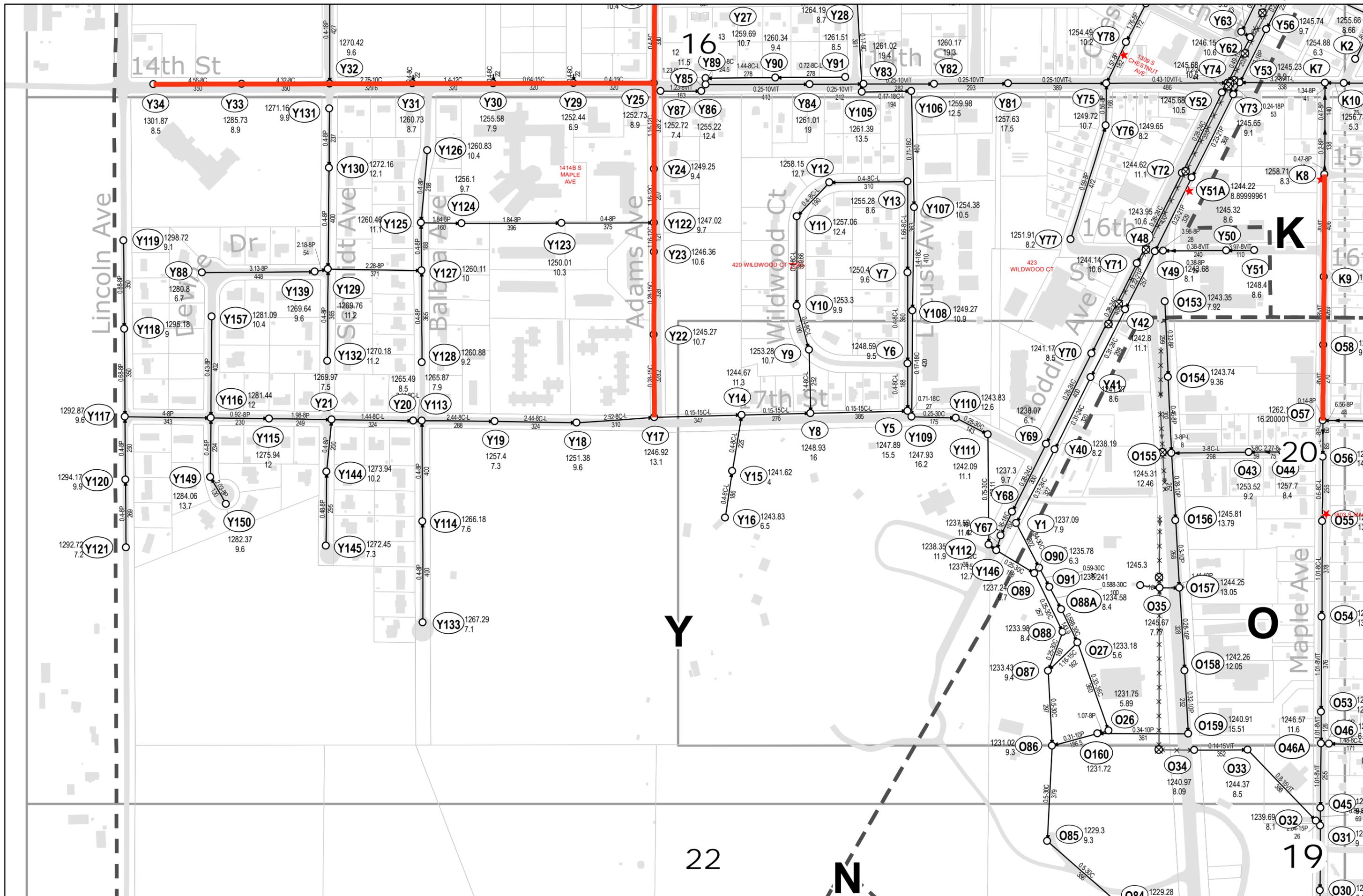
13th St

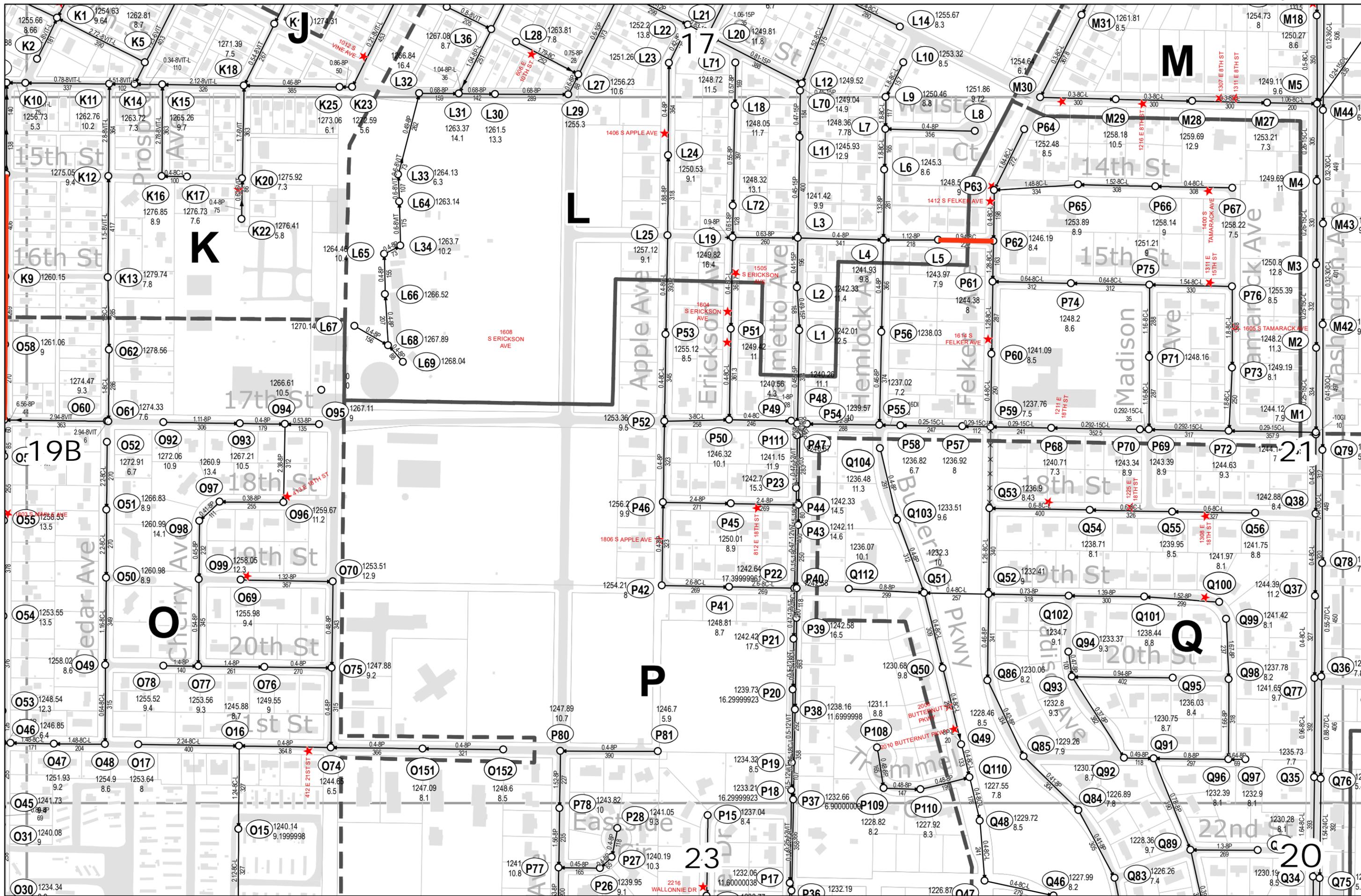
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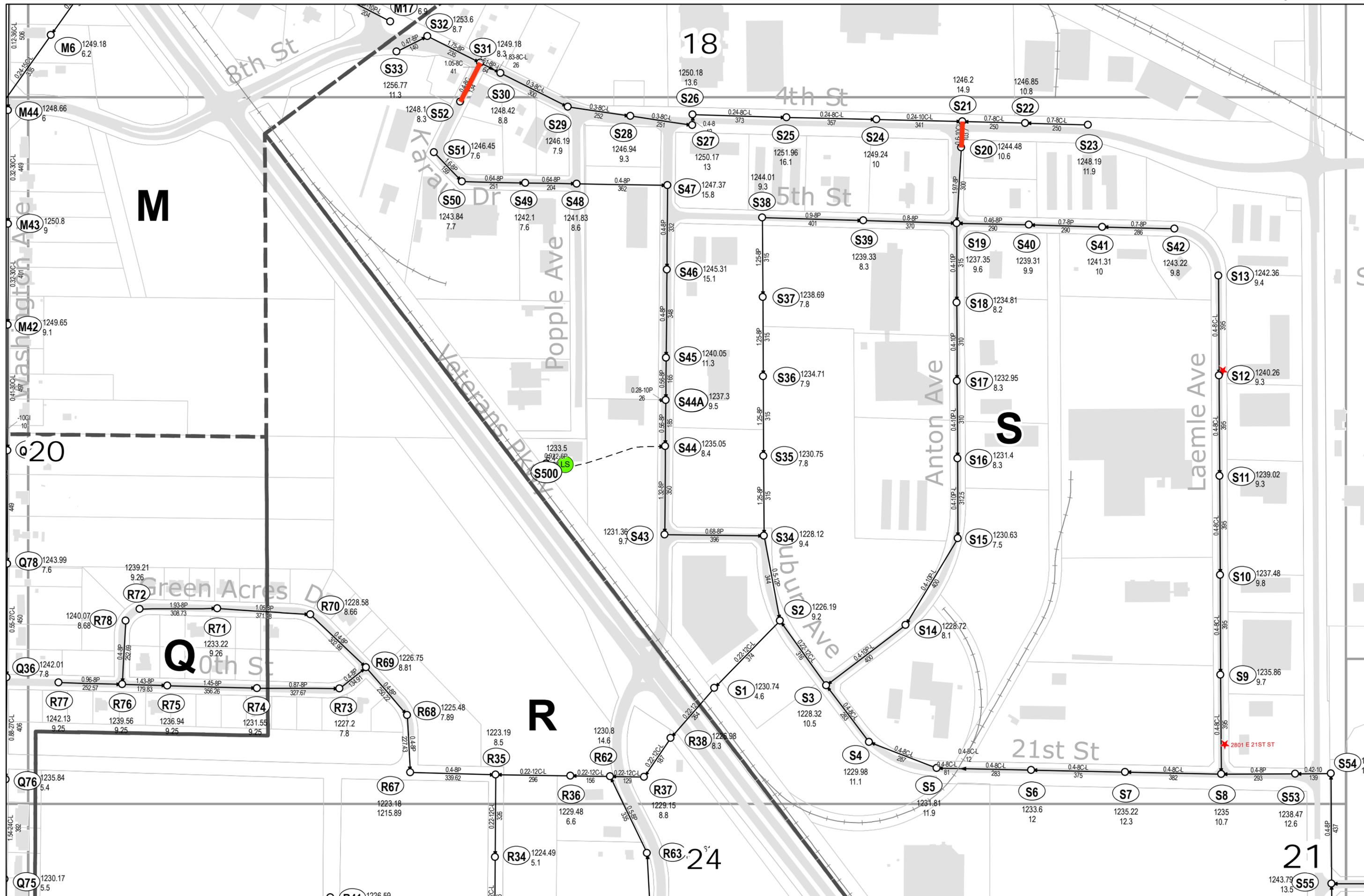
11th St











M

S

Q

R

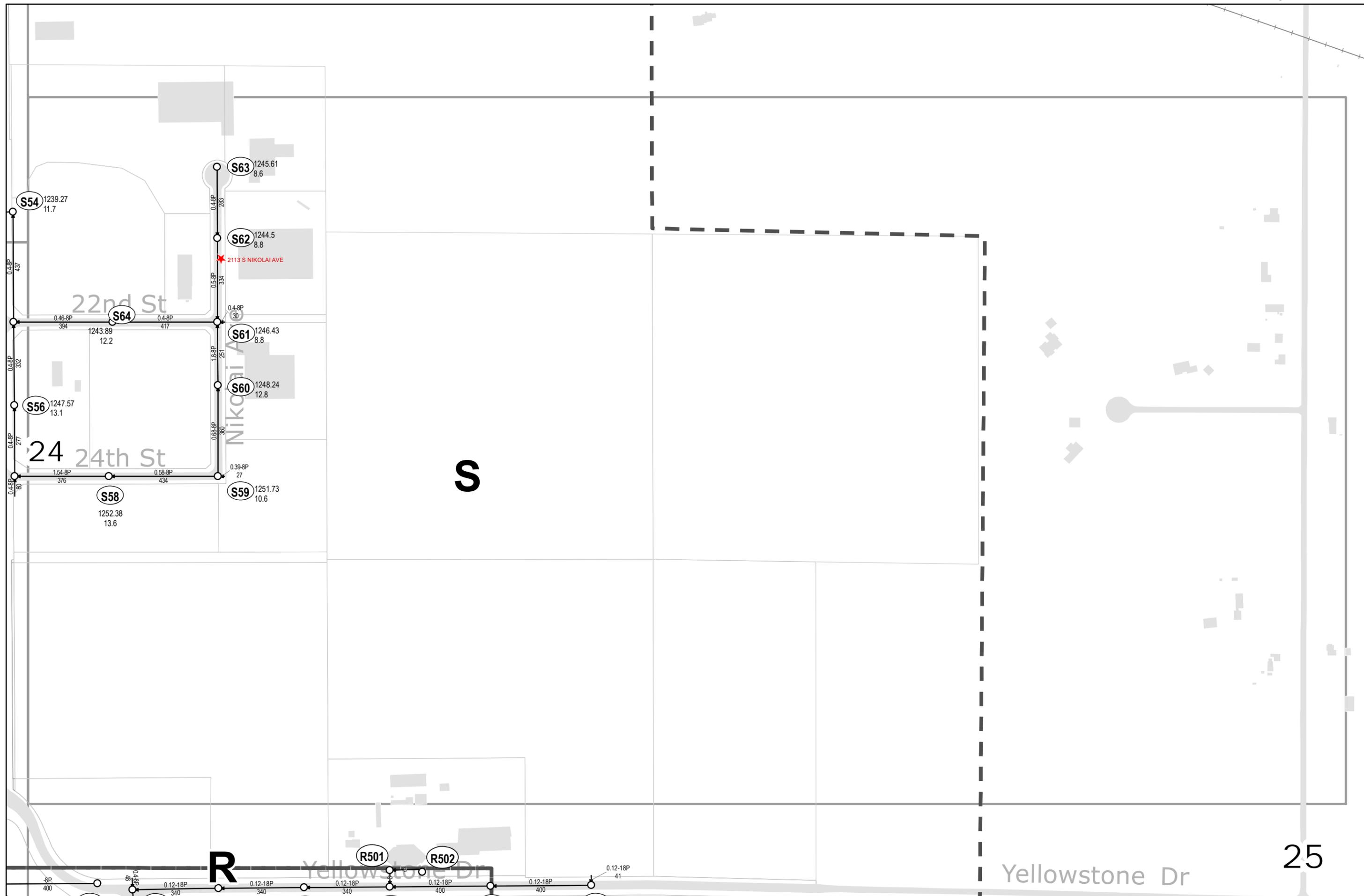
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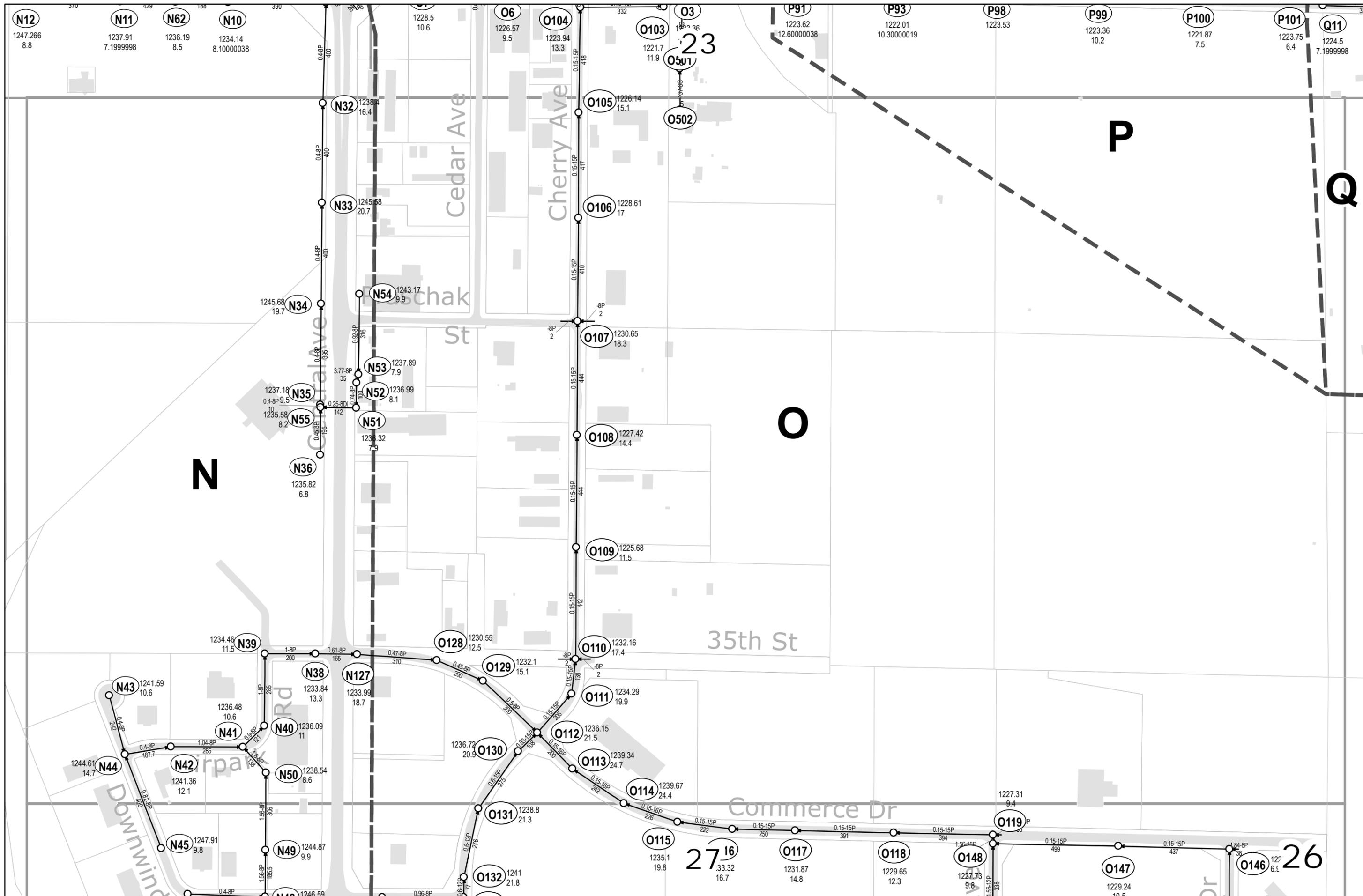
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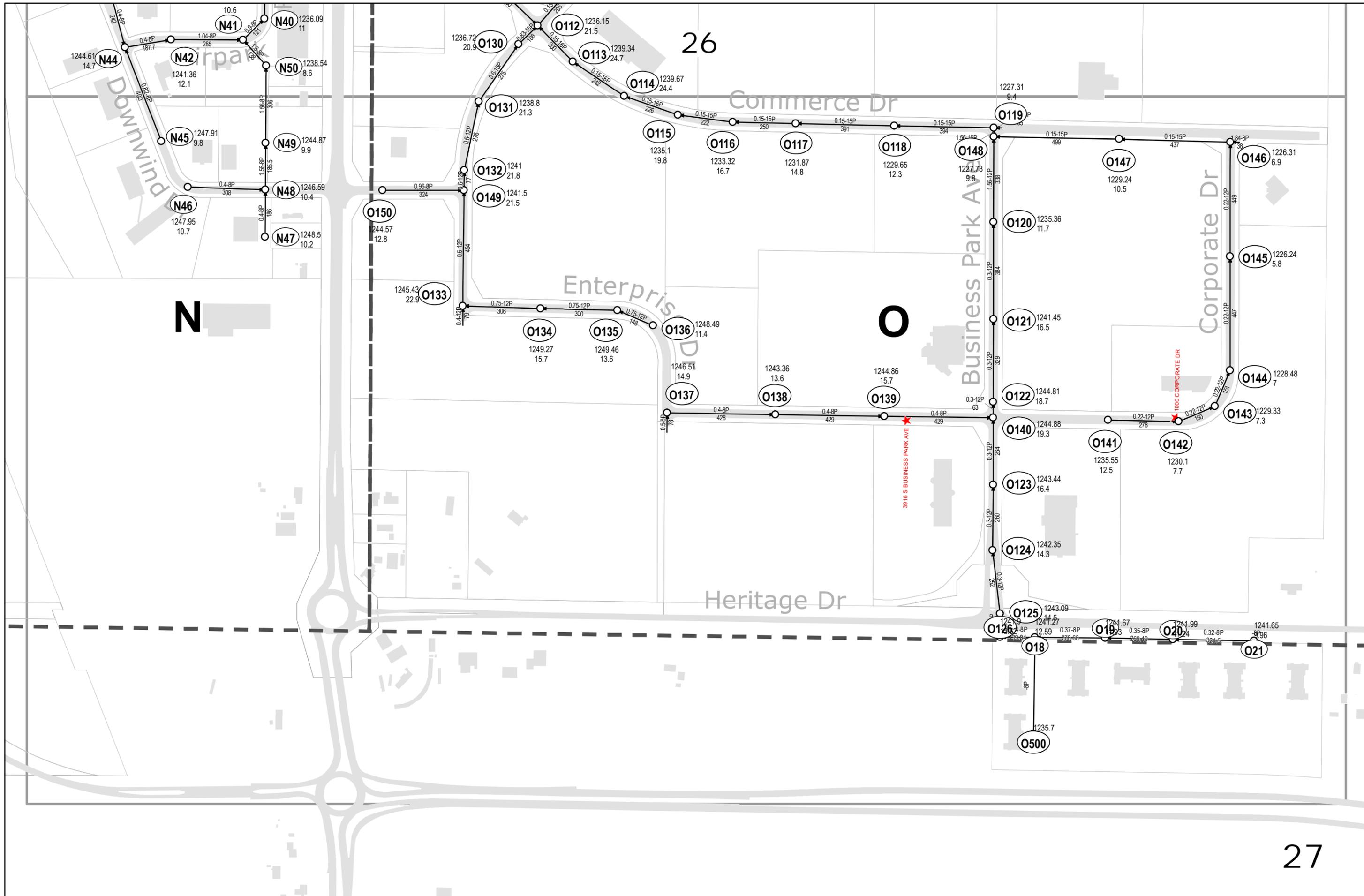
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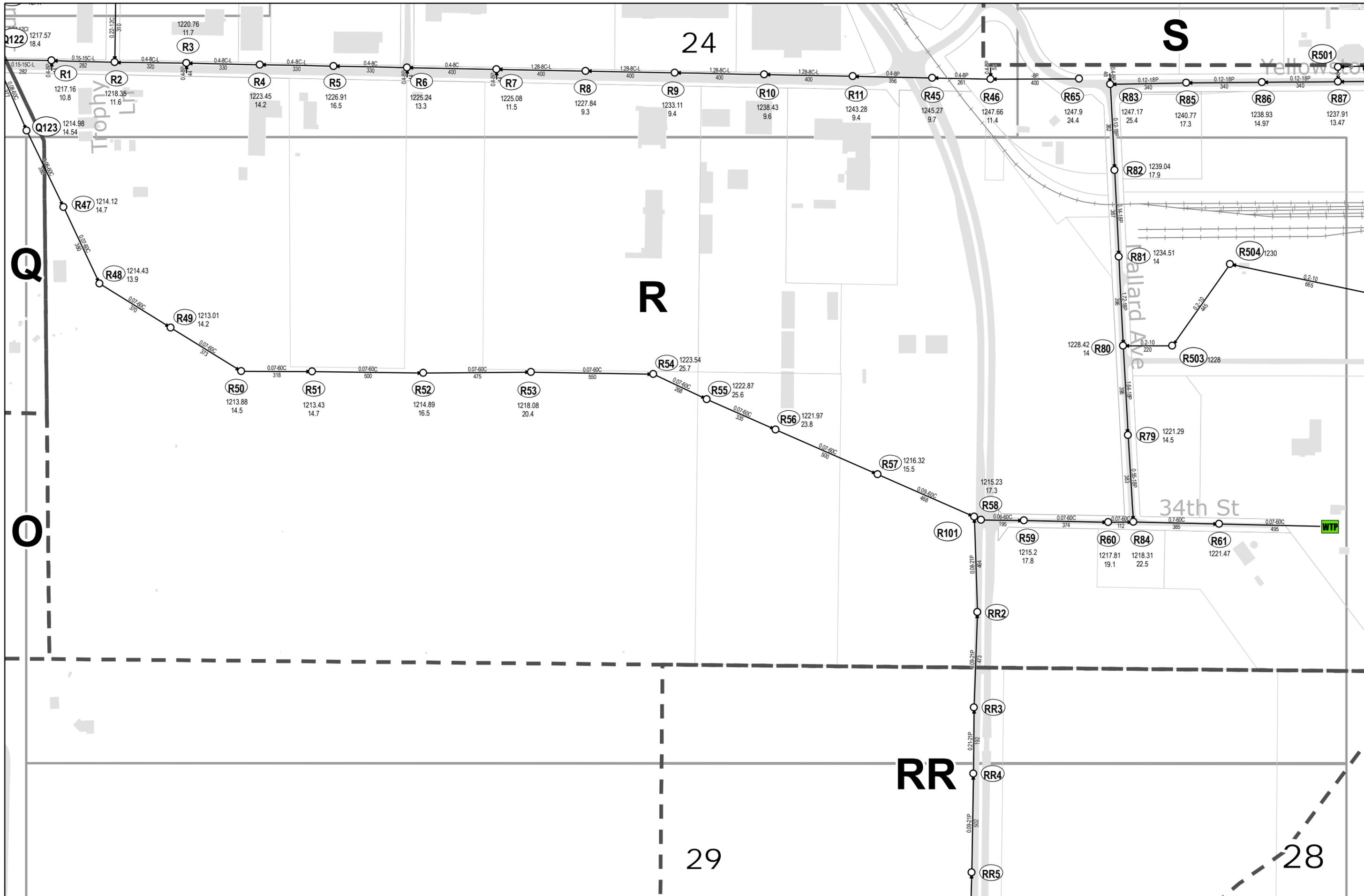
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2801 E 21ST ST

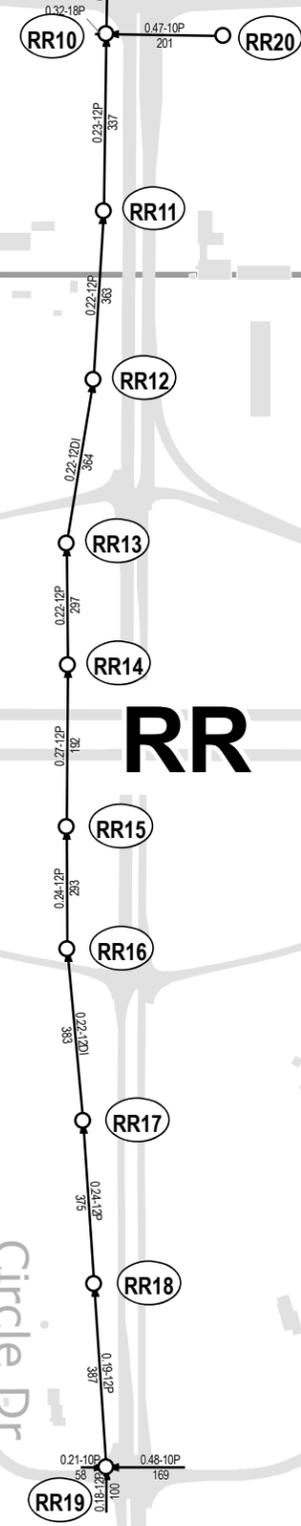








29



RR

Circle Dr

Township Ct

30