

**STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
AND
CITY OF SAINT PAUL
COOPERATIVE CONSTRUCTION
AGREEMENT**

State Project Number:	<u>6221-107</u>	Total City Obligation
Trunk Highway Number:	<u>61=102</u>	<u>\$11,534,109.67</u>
State Project Number:	<u>6228-69</u>	Anticipated Federal RAISE Funds
Trunk Highway Number:	<u>5=102</u>	<u>\$5,959,846.80</u>
State Project Number:	<u>164-010-089</u>	City Non-Federal RAISE Funds
State Project Number:	<u>062-627-007</u>	<u>\$5,574,262.87</u>
State Project Number:	<u>138-010-023</u>	
Federal Project Number:	<u>PRO-RAISE-CRP 6225(007)</u>	
Lighting System Feed Points:	<u>A, 609-1, 609-6, 609-7, 609-8,</u> <u>609-9, 609-10, 609-11, 609-12,</u> <u>614-99, 665-B, 665-7B, 665-8B,</u> <u>665-9A, 665-10, 685-7A, 685-8A,</u> <u>701-6, 730-9, 772-2, 772-12</u>	
Signal System A ID:	<u>1736851</u>	
Signal System B ID:	<u>1736852</u>	
Signal System C ID:	<u>1734975</u>	
Signal System D ID:	<u>1736825</u>	
Signal System E ID:	<u>1736906</u>	
Signal System F ID:	<u>2638279</u>	
Signal System G ID:	<u>1736905</u>	
Signal System H ID:	<u>2638278</u>	
Signal System I ID:	<u>1997930</u>	
Signal System J ID:	<u>1736909</u>	
Signal System K ID:	<u>1736227</u>	
Signal System L ID:	<u>1997935</u>	
Signal System M ID:	<u>1997936</u>	
Signal System N ID:	<u>1997937</u>	
Signal System O ID:	<u>1736797</u>	
Signal System P ID:	<u>1736796</u>	
Signal System Q ID:	<u>1736770</u>	

This Agreement is between the State of Minnesota, acting through its Commissioner of Transportation ("State"), and the City of Saint Paul, acting through its City Council ("City").

Recitals

1. The State will perform grading, bituminous milling and surfacing, ADA improvements, signals, and lighting construction and other associated construction upon, along, and adjacent to Trunk Highway (TH) 5 (East Seventh Street) from 300 feet west of Olive Street to East Minnehaha Avenue and upon, along, and adjacent to TH 61 (Arcade Street) from TH 5 to 550 feet north of Frost Avenue according to State-prepared plans, specifications, and special provisions designated by the City and the State as State Project (SP) 164-010-089 and by the State as SP 6221-107 (TH 61=102) ("Project"); and

2. The City has requested the State include in its Project aesthetic lighting and City utility construction; and
3. The City requests that it perform certain aspects of the construction engineering in connection with the sanitary sewer construction and the State concurs in that request; and
4. The City will participate in the costs of the signals, storm sewer, aesthetic lighting, and City utility construction and associated State-performed construction engineering; and
5. The federally eligible City participation construction will be reduced by the amount of federal RAISE funding received for said construction; and
6. Agreement 1054194 between the State and the City will address routine maintenance required for the Project area not covered under this Agreement; and
7. Agreement 1056892 between the State, the City of Maplewood, and Ramsey County will address City of Maplewood and Ramsey County costs and maintenance associated with this Project; and
8. Agreement 1057134 between the State and Ramsey County and Agreement 1057135 between the State and the City will address the Project's detour; and
9. Minnesota Statutes § 161.45, subdivision 2, allows for City-owned utility relocation to be included in a State construction contract, and payment by the City for such relocation according to applicable statutes and rules for utilities on trunk highways; and
10. Minnesota Statutes § 161.20, subdivision 2 authorizes the Commissioner of Transportation to make arrangements with and cooperate with any governmental authority for the purposes of constructing, maintaining, and improving the trunk highway system.

Agreement

1. Term of Agreement; Survival of Terms; Plans; Incorporation of Exhibits

- 1.1. **Effective Date.** This Agreement will be effective on the date the State obtains all signatures required by Minnesota Statutes § 16C.05, subdivision 2.
- 1.2. **Expiration Date.** This Agreement will expire when all obligations have been satisfactorily fulfilled.
- 1.3. **Survival of Terms.** All clauses which impose obligations continuing in their nature and which must survive in order to give effect to their meaning will survive the expiration or termination of this Agreement, including, without limitation, the following clauses: 3. Maintenance by the City; 9. Liability; Worker Compensation Claims; 11. State Audits; 12. Government Data Practices; 14. Governing Law; Jurisdiction; Venue; 16. Force Majeure; 17. Counterparts; and 18. Electronic Signatures. The terms and conditions set forth in Article 4. Signal Systems and Emergency Vehicle Preemption Systems Operation and Maintenance will survive the expiration of this Agreement but may be terminated by another Agreement between the parties.
- 1.4. **Plans, Specifications, and Special Provisions.** Plans, specifications, and special provisions designated by the State as SP 6221-107 (TH 61=102) are on file in the office of the Commissioner of Transportation at Saint Paul, Minnesota, and incorporated into this Agreement by reference ("Project Plans").
- 1.5. **Exhibits.** The Preliminary Schedule "I" is on file in the office of the City Engineer and attached and incorporated into this Agreement. Exhibit A – Storm Sewer Maintenance is attached and incorporated into this Agreement.

2. Construction by the State

- 2.1. **Contract Award.** The State will advertise for bids and award a construction contract to the lowest responsible bidder according to the Project Plans.

2.2. *Direction, Supervision, and Inspection of Construction*

- A. *Supervision and Inspection by the State.*** The State will direct and supervise all construction activities performed under the construction contract and, except as provided below, perform all construction engineering and inspection functions in connection with the contract construction. All contract construction will be performed according to the Project Plans.
- B. *Construction Engineering and Inspection by the City.*** The City will assign its City Engineer or other registered professional engineer to perform construction engineering in connection with the sanitary sewer construction. The engineer so assigned will act under the supervision and direction of the State and be responsible for construction inspection, surveys and staking, materials inspection, and associated documentation for said construction. The construction will be performed according to the Project Plans and recognized and accepted practices and procedures as set forth in various State manuals, including Specifications No. 1601 through and including No. 1609 in the State's current *Standard Specifications for Construction*. The City will furnish other personnel, services, supplies, and equipment needed to properly carry on the construction.
- i. *Documentation of Construction Costs.*** At regular intervals after the State's contractor has started the sanitary sewer construction, the City will prepare partial estimates of the construction costs according to the terms of the construction contract and immediately submit the partial estimates to the State. The City will also prepare the final estimate data for said construction and submit the final estimate to the State. Quantities listed on the partial and final estimates will be documented according to guidelines in the applicable documentation manual.
- ii. *Final Inspection of Construction.*** Upon completion of the sanitary sewer construction, the City will advise the State whether or not said construction should be accepted by the State as being performed in a satisfactory manner. If the City recommends that the State not accept the construction, then the City will, as part of their recommendation, identify the specific defects in the construction and the reasons why it should not be accepted. Any recommendations made by the City are not binding on the State. The State will determine, after considering the City's recommendations, whether or not the construction has been properly performed and whether to accept or reject it.
- iii. *Inspection of Other City Participation Construction.*** The remainder of the City participation construction covered under this Agreement will be open to inspection by the City. If the City believes the City participation construction covered under this Agreement has not been properly performed or that the construction is defective, the City will inform the State District Engineer's authorized representative in writing of those defects. Any recommendations made by the City are not binding on the State. The State will have the exclusive right to determine whether the State's contractor has satisfactorily performed the City participation construction covered under this Agreement.

2.3. *Plan Changes, Additional Construction, Etc.*

- A.** The State will make changes in the Project Plans and contract construction, which may include the City participation construction covered under this Agreement and will enter into any necessary addenda and change orders with the State's contractor that are necessary to cause the contract construction to be performed and completed in a satisfactory manner. The State District Engineer's authorized representative will inform the appropriate City official of any proposed addenda and change orders to the construction contract that will affect the City participation construction covered under this Agreement.

- B. The City may request additional work or changes to the work in the plans as part of the construction contract. Such request will be made by an exchange of letter(s) with the State. If the State determines that the requested additional work or plan changes are necessary or desirable and can be accommodated without undue disruption to the project, the State will cause the additional work or plan changes to be made.

2.4. *Satisfactory Completion of Contract.* The State will perform all other acts and functions necessary to cause the construction contract to be completed in a satisfactory manner.

2.5. *Permits*

- A. The City will submit to the State's Utility Engineer an original permit application for all utilities owned by the City to be constructed hereunder that are upon and within the Trunk Highway Right-of-Way. Applications for permits will be made on State form "Application For Utility Permit On Trunk Highway Right-of-Way" (Form 2525).

2.6. *Utility Adjustments.* Adjustments to certain City-owned facilities, including but not limited to, valve boxes and frame and ring castings, may be performed by the State's contractor under the construction contract. The City will furnish the contractor with new units and/or parts for those in place City-owned facilities when replacements are required and not covered by a contract pay item, without cost or expense to the State or the contractor, except for replacement of units and/or parts broken or damaged by the contractor.

3. Maintenance by the City

Upon completion of the project, the City will provide the following without cost or expense to the State:

- 3.1. *Parking Lanes.*** Maintenance of parking lanes on TH 5 and TH 61 within the City limits. Maintenance includes, but is not limited to, snow, ice, and debris removal, maintenance of parking-related signs and pavement markings, and any other maintenance activities determined by the District and according to accepted City maintenance practices. Parking lane maintenance will be in accordance with the State's Cost Participation and Maintenance Responsibilities with Local Units of Government Manual, as amended or revised.
- 3.2. *Storm Sewers.*** Routine maintenance of City-owned storm sewer facilities construction as shown in Exhibit A – Storm Sewer Maintenance. Routine maintenance includes, but is not limited to, removal of sediment, debris, vegetation and ice from grates and catch basins, and any other maintenance activities necessary to preserve the facilities and to prevent conditions such as flooding, erosion, or sedimentation; this also includes informing the District Maintenance Engineer of any needed repairs.
- 3.3. *Municipal Utilities.*** Maintenance of any municipal-owned utilities construction, without cost or expense to the State.
- 3.4. *Sidewalks.*** Maintenance of any sidewalk construction, including stamped and colored concrete sidewalk (if any) and pedestrian ramps. Maintenance includes, but is not limited to, snow, ice and debris removal, patching, crack repair, cross street pedestrian crosswalk markings, vegetation control of boulevards (if any), and any other maintenance activities necessary to perpetuate the sidewalks in a safe, useable, and aesthetically acceptable condition. Panel replacement will be in accordance with the State's Cost Participation and Maintenance Responsibilities with Local Units of Government Manual, as amended or revised.
- 3.5. *Shared Use Paths.*** The City will provide routine and minor maintenance of the shared use paths on TH 61 Right-of-Way. Routine and minor maintenance may include, but are not limited to, snow and ice control/removal, sweeping and debris removal, patching, crack repair, replacement of failing section(s) of pavement, vegetation control, signing, pavement markings, and any other maintenance activities

necessary to perpetuate the shared use paths in a safe, usable, and aesthetically acceptable condition as determined by the State's District Maintenance Engineer and all applicable laws. If the City fails to perform its maintenance services under this Agreement in compliance with applicable laws, the State will provide the City with a notice of non-compliance. Within three business days of sending the notice of non-compliance, the State's District Maintenance Engineer and the City Engineer will meet to discuss the City performance of maintenance and decide upon next steps to remedy any non-compliant performance. If the parties cannot agree upon a remedy, the State may perform such obligation and the City will reimburse the State for the cost thereof, plus 10 percent of such cost for overhead and supervision within 30 days of receipt of the State's invoice. The State and the City agree that full pavement replacement is outside of routine and minor maintenance, and the State and the City will share in the cost of pavement replacement according to the State's Cost Participation and Maintenance Responsibilities with Local Units of Government Manual, as amended or revised.

- A. *Right-of-Way Access.*** The State authorizes the City to enter upon State Right-of-Way to perform the maintenance activities described in this Agreement. The City must notify and coordinate with the State's District Maintenance Engineer prior to accessing State Right-of-Way. While the City is occupying the State's Right-of-Way, they must comply with the approved traffic control plan, and with applicable provisions of the Work Zone Field Handbook (<http://www.dot.state.mn.us/trafficeng/workzone/index.html>). All City personnel occupying the State's Right-of-Way must be provided with required reflective clothing and hats.
- B. *Environmental.*** The City shall not dispose of any materials regulated by any governmental or regulatory agency onto the ground, or into any body of water, or into any container on the State's Right-of-Way. In the event of spillage of regulated materials, the City shall immediately notify the State's Authorized Representative in writing and shall provide for cleanup of the spilled material and any materials contaminated by the spillage in accordance with all applicable federal, state and local laws and regulations, at the sole expense of the City.

3.6. *Street Lighting.* Maintenance and ownership of any lighting facilities construction within the City limits. Maintenance of electrical lighting systems includes everything within the system, from the point of attachment to the power source or utility, to the last light on the feed point, including but not limited to re-lamping of lighting units or replacing of LED luminaires, repair or replacement of all damaged luminaire glassware, loose connections, luminaires when damaged or when ballasts fail, photoelectric control on luminaires, defective starter boards or drivers, damaged fuse holders, blown fuses, knocked down poles including wiring within the poles, damaged poles, pull boxes, underground wire, damaged foundations, equipment pad, installation of approved splices or replacement of wires, repair or extending of conduit, lighting cabinet maintenance including photoelectric cell, electrical distribution system, Gopher State One Call (GSOC) locates, and painting of poles and other equipment. The City will be responsible for the hook up cost and application to secure an adequate power supply to the service pad or pole and will pay all monthly electrical service expenses necessary to operate the lighting facility.

3.7. *Additional Drainage.* No party to this Agreement will drain any additional drainage volume into the storm sewer facilities constructed under the construction contract that was not included in the drainage for which the storm sewer facilities were designed, without first obtaining written permission to do so from the other party.

4. Signal Systems and Emergency Vehicle Preemption Systems Operation and Maintenance

All operation and maintenance terms, including timing and power provisions, in Cooperative Construction Agreement 1032878, dated October 5, 2019, for the following signal systems will remain in full force and effect.

- Signal System F and EVP System F (HAWK System)
TH 5 at East North Street and Greenbrier Street

- Signal System H (Pedestrian Crosswalk Flasher System)
TH 5 at Margaret Street

Operation and maintenance responsibilities will be as follows for the following Signal Systems and Emergency Vehicle Preemption (EVP) Systems, and for Interconnect System A on East Seventh Street (TH 5) and Interconnect System B on Arcade Street (TH 61). This Agreement will supersede and terminate the operation and maintenance terms of any previous agreements between the parties for the following signals.

- Signal System A and EVP System A
TH 5 at North Lafayette Road
- Signal System B and EVP System B
TH 5 at North Kittson Street
- Signal System C and EVP System C
TH 5 at North Payne Avenue
- Signal System D and EVP System D
TH 5 at Mounds Boulevard
- Signal System E and EVP System E
TH 5 at Maria Avenue
- Signal System G and EVP System G
TH 5 at Hope Street North
- Signal System I and EVP System I
TH 5 at Arcade Street
- Signal System J and EVP System J
TH 5 at East Minnehaha Avenue and North Mendota Street
- Signal System K and EVP System K
TH 61 at East Minnehaha Avenue
- Signal System L and EVP System L
TH 61 at Neid Lane
- Signal System M and EVP System M
TH 61 at East Case Avenue
- Signal System N and EVP System N
TH 61 at East Magnolia Avenue
- Signal System O and EVP System O
TH 61 at County State Aid Highway 31 (Maryland Avenue)
- Signal System P and EVP System P
TH 61 at East Ivy Avenue
- Signal System Q and EVP System Q
TH 61 at East Wheelock Parkway

4.1. Power. The City will be responsible for the hook-up cost and application to secure an adequate power supply to the service pads or poles and will pay all monthly electrical service expenses necessary to operate the Signal Systems, EVP Systems, and Interconnect.

4.2. *Minor Signal System Maintenance.* The City will provide for the following without cost to the State.

- A. Maintain the signal pole mounted light-emitting diode (LED) luminaires, including replacing the luminaires when necessary. The LED luminaire must be replaced when it fails or when light levels drop below recommended American Association of State Highway and Transportation Officials (AASHTO) levels for the installation.
- B. Replace the Signal Systems' LED indications. Replacing LED indications consists of replacing each LED indication when it reaches end of life per the MnDOT Traffic Engineering Manual or fails or no longer meets Institute of Traffic Engineers (ITE) standards for light output.
- C. Clean the Signal Systems' controller cabinets and service cabinet exteriors.
- D. Clean and paint the Signal Systems and luminaire mast arm extensions.
- E. Paint and maintain the cross-street pedestrian crosswalk markings.

4.3. *Major Signal System Maintenance.* The City will provide for the following without cost to the State.

- A. ***Interconnect; Timing; Other Maintenance.*** The City will maintain the Interconnect and signing, and perform all other Signal System, Accessible Pedestrian Signals (APS), and signal pole luminaire circuit maintenance without cost to the State. All Signal System timing will be determined by the City.
- B. ***EVP Systems Operation.*** The EVP Systems will be installed, operated, maintained, and removed according to the following conditions and requirements:
 - i. All maintenance of the EVP System must be done by City forces.
 - ii. Emitter units may be installed only on authorized emergency vehicles, as defined in Minnesota Statutes § 169.011, Subdivision 3. Authorized emergency vehicles may use emitter units only when responding to an emergency. The City will provide the State's District Engineer or their designated representative a list of all vehicles with emitter units, if requested by the State.
 - iii. In the event the EVP System or its components are, in the opinion of the State, being misused or the conditions set forth in Paragraph ii above are violated, and such misuse or violation continues after the City receives written notice from the State, the State may remove the EVP System. Upon removal of the EVP System pursuant to this Paragraph, all of its parts and components become the property of the State.
 - iv. All timing of the EVP Systems will be determined by the City.

4.4. *Right-of-Way Access.* Each party authorizes the other party to enter upon their respective public right-of-way to perform the maintenance activities described in this Agreement.

5. Basis of City Cost

- 5.1. *Schedule "I".*** The Preliminary Schedule "I" includes anticipated City participation construction items and the construction engineering cost share covered under this Agreement and is based on engineer's estimated unit prices.
- 5.2. *City Participation Construction.*** The City will participate in the following at the percentages indicated. The construction includes the City's proportionate share of item costs for mobilization, field office, field laboratory and traffic control. It is anticipated that federal RAISE funding will be available to the City as defined below. The City may be billed for the match of their cost participation as shown on the Schedule "I". City costs will include an amount equal to all anticipated federal RAISE funding not applied to the federally eligible City participation construction.

- A. 100 Percent will be the City's rate of cost participation in all of the construction items tabulated on Sheets 2 through 5 of the Preliminary Schedule "I". Federal RAISE funds will be applied at a rate of 80 percent up to the capped amount. The federal RAISE fund cap will be determined at the time of Project award.
- B. 100 Percent will be the City's rate of cost participation in all of the construction items tabulated on Sheets 6 through 10 of the Preliminary Schedule "I".
- C. 100 Percent will be the City's rate of cost participation in all of the signal system painting tabulated on Sheet 11 of the Preliminary Schedule "I".

5.3. Federal RAISE Funds. The federal RAISE funds are capped. The cap will be determined at the time of Project award.

5.4. City Furnished Materials. The City will furnish signal cabinets and vehicle detection equipment (City Furnished Materials) according to the Project Plans and as indicated in the Preliminary Schedule "I" to operate the Signal Systems covered under this Agreement. City Furnished Materials will also be provided to operate Signal System O, covered under Agreement 1056892. The City will receive a lump sum credit from the State for all of the City Furnished Materials in the amount of **\$252,146.30** as shown in the Preliminary Schedule "I".

5.5. Construction Engineering Costs. The City will pay a construction engineering charge equal to 3 percent of the total sanitary sewer City participation construction covered under Article 2.2. The City will pay a construction engineering charge equal to 8 percent of the remainder of the City participation construction covered under this Agreement.

5.6. Plan Changes, Additional Construction, Etc. The City will share in the costs of construction contract addenda and change orders that are necessary to complete the City participation construction covered under this Agreement, including any City requested additional work and plan changes.

The State reserves the right to invoice the City for the cost of any additional City requested work and plan changes, construction contract addenda, change orders, and associated construction engineering before the completion of the contract construction.

5.7. Liquidated Damages. All liquidated damages assessed the State's contractor in connection with the construction contract will result in a credit shared by each party in the same proportion as their total construction cost share covered under this Agreement is to the total contract construction cost before any deduction for liquidated damages.

6. City Cost and Payment by the City

6.1. City Cost. **\$11,534,109.67** is the City's estimated share of the costs of the contract construction, including federal RAISE funds and the construction engineering cost share as shown in the Preliminary Schedule "I". The Preliminary Schedule "I" was prepared using anticipated construction items and estimated quantities and unit prices and may include any credits or lump sum costs. Upon award of the construction contract, the State will prepare a Revised Schedule "I" based on construction contract construction items, quantities, and unit prices, which will replace and supersede the Preliminary Schedule "I" as part of this Agreement.

6.2. Conditions of Payment. The City will pay the State the City's total estimated construction and construction engineering cost share, minus anticipated federal RAISE funds, as shown in the Revised Schedule "I", after the following conditions have been met:

- A. Execution of this Agreement and transmittal to the City, including a copy of the Revised Schedule "I".

B. The City's receipt of a written request from the State for the advancement of funds. Such advancement of funds is due to the State by February 28, 2025. If the City participation construction begins earlier than April 1, 2025, the City must advance their funds before the City participation construction begins.

6.3. Acceptance of the City's Cost and Completed Construction. The computation by the State of the amount due from the City will be final, binding and conclusive. Acceptance by the State of the completed contract construction will be final, binding, and conclusive upon the City as to the satisfactory completion of the contract construction.

6.4. Final Payment by the City. Upon completion of all contract construction and upon computation of the final amount due the State's contractor and determination by the Federal Highway Administration of the amount of its reimbursement to the State, the State will prepare a Final Schedule "I" and submit a copy to the City. The Final Schedule "I" will be based on final quantities and include all City participation construction items and the construction engineering cost share covered under this Agreement. The Final Schedule "I" may also include City costs in an amount equal to all federal RAISE funding not applied to the federally eligible City participation construction and associated construction engineering. If the final cost of the City participation construction exceeds the amount of funds advanced by the City, the City will pay the difference to the State without interest. If the final cost of the City participation construction is less than the amount of funds advanced by the City, the State will refund the difference to the City without interest.

The State and the City waive claims for any payments or refunds less than \$5.00 according to Minnesota Statutes § 15.415.

7. Authorized Representatives

Each party's Authorized Representative is responsible for administering this Agreement and is authorized to give and receive any notice or demand required or permitted by this Agreement.

7.1. The State's Authorized Representative will be:

Name, Title: Malaki Ruranika, Cooperative Agreements Engineer (or successor)
 Address: 395 John Ireland Boulevard, Mailstop 682, Saint Paul, MN 55155
 Telephone: (651) 366-4634
 Email: malaki.ruranika@state.mn.us

7.2. The City's Authorized Representative will be:

Name, Title: Nick Peterson, City Engineer (or successor)
 Address: 25 West 4th Street, 800 City Hall Annex, Saint Paul, MN 55102
 Telephone: (651) 266-6059
 Email: nick.peterson@ci.stpaul.mn.us

8. Assignment; Amendments; Waiver; Contract Complete

8.1. Assignment. No party may assign or transfer any rights or obligations under this Agreement without the prior consent of the other party and a written assignment agreement, executed and approved by the same parties who executed and approved this Agreement, or their successors in office. The foregoing does not prohibit the City from contracting with a third-party to perform City maintenance responsibilities covered under this Agreement.

8.2. Amendments. Any amendment to this Agreement must be in writing and will not be effective until it has been executed and approved by the same parties who executed and approved the original Agreement, or their successors in office.

8.3. Waiver. If a party fails to enforce any provision of this Agreement, that failure does not waive the provision or the party's right to subsequently enforce it.

8.4. Contract Complete. This Agreement contains all prior negotiations and agreements between the State and the City. No other understanding regarding this Agreement, whether written or oral, may be used to bind either party.

9. Liability; Worker Compensation Claims

- 9.1.** Each party is responsible for its own acts, omissions, and the results thereof to the extent authorized by law and will not be responsible for the acts and omissions of others and the results thereof. Minnesota Statutes § 3.736 and other applicable law govern liability of the State. Minnesota Statutes Chapter 466 and other applicable law govern liability of the City.
- 9.2.** Each party is responsible for its own employees for any claims arising under the Workers Compensation Act.

10. Nondiscrimination

Provisions of Minnesota Statutes § 181.59 and of any applicable law relating to civil rights and discrimination are considered part of this Agreement.

11. State Audits

Under Minnesota Statutes § 16C.05, subdivision 5, the City's books, records, documents, accounting procedures, and practices relevant to this Agreement are subject to examination by the State and the State Auditor or Legislative Auditor, as appropriate, for a minimum of six years from the end of this Agreement.

12. Government Data Practices

The City and State must comply with the Minnesota Government Data Practices Act, Minnesota Statutes Chapter 13, as it applies to all data provided under this Agreement, and as it applies to all data created, collected, received, stored, used, maintained, or disseminated by the City under this Agreement. The civil remedies of Minnesota Statutes §13.08 apply to the release of the data referred to in this clause by either the City or the State.

13. Telecommunications Certification

By signing this agreement, the City certifies that, consistent with Section 889 of the John S. McCain National Defense Authorization Act for Fiscal Year 2019, Pub. L. 115-232 (Aug. 13, 2018), and 2 CFR 200.216, the City will not use funding covered by this agreement to procure or obtain, or to extend, renew, or enter into any contract to procure or obtain, any equipment, system, or service that uses "covered telecommunications equipment or services" (as that term is defined in Section 889 of the Act) as a substantial or essential component of any system or as critical technology as part of any system. The City will include this certification as a flow down clause in any contract related to this agreement.

14. Governing Law; Jurisdiction; Venue

Minnesota law governs the validity, interpretation, and enforcement of this Agreement. Venue for all legal proceedings arising out of this Agreement, or its breach, must be in the appropriate state or federal court with competent jurisdiction in Ramsey County, Minnesota.

15. Termination; Suspension

- 15.1. By Mutual Agreement.** This Agreement may be terminated by mutual agreement of the parties.
- 15.2. Termination for Insufficient Funding.** The State may immediately terminate this Agreement if it does not obtain funding from the Minnesota Legislature, or other funding source; or if funding cannot be continued at a level sufficient to allow for the performance of contract construction under the Project. Termination must be by written or fax notice to the City.

15.3. Suspension. In the event of a total or partial government shutdown, the State may suspend this Agreement and all work, activities, and performance of work authorized through this Agreement.

16. Force Majeure

No party will be responsible to the other for a failure to perform under this Agreement (or a delay in performance) if such failure or delay is due to a force majeure event. A force majeure event is an event beyond a party's reasonable control, including but not limited to, unusually severe weather, fire, floods, other acts of God, labor disputes, acts of war or terrorism, or public health emergencies.

17. Counterparts

The parties may sign this Agreement in counterparts, each of which constitutes an original, but all of which together constitute one instrument.

18. Electronic Signatures

The parties agree that the electronic signature of a party to this Agreement shall be as valid as an original signature of such party and shall be effective to bind such party to this Agreement. The parties further agree that any document (including this Agreement and any attachments or exhibits to this Agreement) containing, or to which there is affixed, an electronic signature shall be deemed (i) to be "written" or "in writing," (ii) to have been signed, and (iii) to constitute a record established and maintained in the ordinary course of business and an original written record when printed from electronic files. For purposes hereof, "electronic signature" also means a manually signed original signature that is then transmitted by any electronic means, including without limitation a faxed version of an original signature or an electronically scanned and transmitted version (e.g., via PDF) of an original signature. Any party's failure to produce the original signature of any electronically transmitted signature shall not affect the enforceability of this Agreement.

[The remainder of this page has been intentionally left blank.]

CITY OF SAINT PAUL

The undersigned certify that they have lawfully executed this contract on behalf of the Governmental Unit as required by applicable charter provisions, resolutions, or ordinances.

Recommend for Approval:

By: _____
(Director of Public Works)

Date: _____

Approved as to form and execution:

By: _____
(Assistant City Attorney)

Date: _____

By: _____
(Mayor)

Date: _____

By: _____
(Director of Financial Services)

Date: _____

DEPARTMENT OF TRANSPORTATION

Recommended for Approval:

By: _____
(District Engineer)

Date: _____

Approved:

By: _____
(State Design Engineer)

Date: _____

COMMISSIONER OF ADMINISTRATION

By: _____
(With Delegated Authority)

Date: _____

INCLUDE COPY OF RESOLUTION APPROVING THE AGREEMENT AND AUTHORIZING ITS EXECUTION.

PRELIMINARY SCHEDULE "I"

Agreement 1055887

City of Saint Paul

SP 6221-107 (TH 61=102), SP 6228-69 (TH 5=102)

Preliminary: August 29, 2024

SP 164-010-089

Federal Project PRO-RAISE-CRP 6225(007)

Grading, bituminous milling and surfacing, ADA improvements, signals, and lighting construction located on TH 5 (East 7th Street) from 300 feet west of Olive Street to East Minnehaha Avenue and on TH 61 (Arcade Street) from TH 5 to 550 feet north of Frost Avenue to start approximately April 1, 2025, under State Contract _____ with _____

CITY COST PARTICIPATION

	Federal RAISE Funds 80 Percent	Federal RAISE Match 20 Percent	SP 164-010-089 No Federal RAISE	SP 6221-107 No Federal RAISE	TOTALS
Work Items From Sheet 5 - SP 164-010-089	5,959,846.80	1,489,961.70	0.00		7,449,808.50
Work Items From Sheet 10 - SP 6221-107, 8% CE				1,722,950.45	1,722,950.45
Signal Painting From Sheet 11 - SP 164-010-089			56,000.00		56,000.00
Construction Subtotals 8% CE	5,959,846.80	1,489,961.70	56,000.00	1,722,950.45	
Construction Engineering 8%			600,464.68	137,836.04	738,300.72
Work Items From Sheet 10 - SP 6221-107, 3% CE				1,766,210.00	1,766,210.00
Construction Engineering 3%				52,986.30	52,986.30
Construction + Construction Engineering Subtotals	5,959,846.80	1,489,961.70	656,464.68	3,679,982.79	
Total City Obligation					\$11,786,255.97
Credit for City Furnished Materials From Sheets 12 - 17					(\$252,146.30)
(1) Total City Obligation Minus Credit for City Furnished Materials					\$11,534,109.67
(2) Total Anticipated Federal RAISE Funds					(\$5,959,846.80)
(3) Total City Obligation Minus Anticipated Federal RAISE Funds					\$5,574,262.87

(1) Amount of total City obligation as described in Article 6 of the Agreement (estimated amount)

(2) Federal RAISE funds will be capped upon award as described in Article 5.3 of the Agreement.

(3) Amount of advance payment as described in Article 6 of the Agreement (estimated amount)

(1) 80% FEDERAL RAISE, 20% CITY (CAPPED); REMAINDER 100% CITY FUNDS
(P) = PLAN QUANTITY

1055887

ITEM NUMBER	SP 164-010-089 WORK ITEM	UNIT	QUANTITY	UNIT PRICE	COST (1)
2021.501	MOBILIZATION	LUMP SUM	0.24	500,000.00	120,000.00
2031.502	FIELD OFFICE	EACH	0.24	49,000.00	11,760.00
2031.502	FIELD LABORATORY	EACH	0.24	34,000.00	8,160.00
2104.502	REMOVE LIGHTING UNIT	EACH	83.00	450.00	37,350.00
2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	53.00	700.00	37,100.00
2104.502	REMOVE CASTING	EACH	21.00	200.00	4,200.00
2104.502	REMOVE SIGN PANEL SPECIAL	EACH	40.00	50.00	2,000.00
2104.502	REMOVE SIGNAL SYSTEM A	EACH	0.25	10,800.00	2,700.00
2104.502	REMOVE SIGNAL SYSTEM E	EACH	0.50	10,800.00	5,400.00
2104.502	REMOVE SIGNAL SYSTEM G	EACH	0.50	10,800.00	5,400.00
2104.502	REMOVE SIGNAL SYSTEM I	EACH	0.25	10,800.00	2,700.00
2104.502	REMOVE SIGNAL SYSTEM L	EACH	0.50	10,800.00	5,400.00
2104.502	REMOVE SIGNAL SYSTEM M	EACH	0.50	10,800.00	5,400.00
2104.502	REMOVE SIGNAL SYSTEM N	EACH	0.50	10,800.00	5,400.00
2104.502	REMOVE SIGNAL SYSTEM P	EACH	0.50	10,800.00	5,400.00
2104.502	REMOVE SIGNAL SYSTEM Q	EACH	0.50	10,800.00	5,400.00
2104.502	REMOVE HANDHOLE	EACH	37.00	380.00	14,060.00
2104.502	REMOVE LIGHT FOUNDATION	EACH	157.00	800.00	125,600.00
2104.502	REMOVE SERVICE CABINET	EACH	2.00	400.00	800.00
2104.502	SALVAGE STEEL LIGHT FOUNDATION	EACH	1.00	400.00	400.00
2104.502	SALVAGE LIGHTING UNIT	EACH	75.00	500.00	37,500.00
2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	1,118.00	25.00	27,950.00
2104.503	REMOVE CABLES	LIN FT	27,838.00	1.50	41,757.00
2104.503	REMOVE CONDUIT SYSTEM	LIN FT	31,948.00	4.00	127,792.00
2104.503	REMOVE FIBER OPTIC CABLE	LIN FT	9,965.00	1.50	14,947.50
2104.602	REMOVE SIGN SPECIAL	EACH	34.00	50.00	1,700.00
2104.602	SALVAGE SIGN SPECIAL	EACH	96.00	50.00	4,800.00
2104.602	SALVAGE SIGN PANEL SPECIAL	EACH	109.00	50.00	5,450.00
2104.602	RELOCATE COMMERCIAL SIGN	EACH	1.00	400.00	400.00
2104.603	ABATE ASBESTOS-CONTAINING PIPES	LIN FT	1,750.00	50.00	87,500.00
2211.507	AGGREGATE BASE (CV) CLASS 5 (P)	CU YD	717.00	35.00	25,095.00
2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	277.00	120.00	33,240.00
2503.503	15" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	1,034.00	125.00	129,250.00
2503.503	18" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	125.00	135.00	16,875.00

(1) 80% FEDERAL RAISE, 20% CITY (CAPPED); REMAINDER 100% CITY FUNDS
(P) = PLAN QUANTITY

1055887

ITEM NUMBER	SP 164-010-089 WORK ITEM	UNIT	QUANTITY	UNIT PRICE	COST (1)
2503.503	21" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	21.00	140.00	2,940.00
2503.503	24" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	417.00	150.00	62,550.00
2503.503	60" RC PIPE SEWER DESIGN 3006 CLASS III	LIN FT	12.00	500.00	6,000.00
2503.602	CONNECT TO EXISTING STORM SEWER	EACH	56.00	2,000.00	112,000.00
2503.603	LINING SEWER PIPE 12"	LIN FT	51.00	130.00	6,630.00
2503.603	LINING SEWER PIPE 15"	LIN FT	47.00	170.00	7,990.00
2503.603	LINING SEWER PIPE 18"	LIN FT	135.00	200.00	27,000.00
2503.603	LINING SEWER PIPE 24"	LIN FT	20.00	220.00	4,400.00
2503.603	LINING SEWER PIPE 36"	LIN FT	108.00	350.00	37,800.00
2503.603	LINING SEWER PIPE 48"	LIN FT	50.00	500.00	25,000.00
2503.603	LINING SEWER PIPE 78"	LIN FT	329.00	2,000.00	658,000.00
2503.606	CRACK SEALANT	GALLON	64.00	10.00	640.00
2503.604	2" INSULATION	SQ YD	12.00	50.00	600.00
2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 3	EACH	1.00	15,400.00	15,400.00
2506.502	CASTING ASSEMBLY	EACH	97.00	1,000.00	97,000.00
2506.502	ADJUST FRAME AND RING CASTING	EACH	2.00	900.00	1,800.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	LIN FT	3.90	700.00	2,730.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	48.30	800.00	38,640.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	LIN FT	61.00	900.00	54,900.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	161.40	900.00	145,260.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	41.70	1,200.00	50,040.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	LIN FT	19.90	1,600.00	31,840.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 84-4020	LIN FT	23.80	2,000.00	47,600.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 96-4020	LIN FT	12.80	2,500.00	32,000.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 120-4020	LIN FT	13.40	4,500.00	60,300.00
2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	2.50	750.00	1,875.00
2506.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH	5.00	2,000.00	10,000.00
2521.518	4" BITUMINOUS WALK	SQ FT	35,304.00	4.25	150,042.00
2533.503	RELOCATE PORTABLE PRECAST CONCRETE BARRIER DESIGN 8337	LIN FT	24.00	10.00	240.00
2545.502	LIGHTING UNIT TYPE SPECIAL 1	EACH	151.00	6,500.00	981,500.00
2545.502	LIGHTING UNIT TYPE SPECIAL 2	EACH	20.00	7,000.00	140,000.00
2545.502	LIGHT FOUNDATION DESIGN SPECIAL	EACH	243.00	2,000.00	486,000.00
2545.502	SERVICE CABINET -TYPE L1	EACH	1.00	7,500.00	7,500.00
2545.502	UNDERGROUND CABLE SPLICE	EACH	16.00	400.00	6,400.00

(1) 80% FEDERAL RAISE, 20% CITY (CAPPED); REMAINDER 100% CITY FUNDS
(P) = PLAN QUANTITY

1055887

ITEM NUMBER	SP 164-010-089 WORK ITEM	UNIT	QUANTITY	UNIT PRICE	COST (1)
2545.502	EQUIPMENT PAD B	EACH	1.00	1,500.00	1,500.00
2545.502	HANDHOLE	EACH	91.00	2,500.00	227,500.00
2545.502	GROUNDING ELECTRODE	EACH	245.00	100.00	24,500.00
2545.503	2" RIGID STEEL CONDUIT	LIN FT	30.00	35.00	1,050.00
2545.503	1" NON-METALLIC CONDUIT	LIN FT	136.00	\$7.50	1,020.00
2545.503	1.5" NON-METALLIC CONDUIT	LIN FT	24,320.00	8.00	194,560.00
2545.503	1.5" NON-METALLIC CONDUIT (DIRECTIONAL BORE)	LIN FT	4,042.00	18.00	72,756.00
2545.503	2" NON-METALLIC CONDUIT	LIN FT	1,430.00	9.00	12,870.00
2545.503	2" NON-METALLIC CONDUIT (DIRECTIONAL BORE)	LIN FT	741.00	19.00	14,079.00
2545.503	UNDERGROUND WIRE 1/C 2 AWG	LIN FT	331.00	5.00	1,655.00
2545.503	UNDERGROUND WIRE 1/C 4 AWG	LIN FT	139,483.00	8.00	1,115,864.00
2545.503	UNDERGROUND WIRE 1/C 10 AWG	LIN FT	223.00	2.00	446.00
2545.601	TEMPORARY LIGHTING SYSTEM	LUMP SUM	1.00	50,000.00	50,000.00
2545.602	ADJUST HANDHOLE	EACH	9.00	600.00	5,400.00
2545.602	INSTALL LIGHTING UNIT	EACH	75.00	1,200.00	90,000.00
2545.602	INSTALL STEEL LIGHT FOUNDATION	EACH	1.00	600.00	600.00
2563.601	TRAFFIC CONTROL	LUMP SUM	0.24	350,000.00	84,000.00
2564.602	INSTALL SIGN SPECIAL	EACH	96.00	350.00	33,600.00
2564.602	INSTALL SIGN PANEL SPECIAL	EACH	109.00	350.00	38,150.00
2564.602	DELINEATOR/MARKER	EACH	17.00	220.00	3,740.00
2564.618	SIGN SPECIAL	SQ FT	39.00	60.00	2,340.00
2564.618	SIGN PANEL SPECIAL	SQ FT	71.00	50.00	3,550.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM A	LUMP SUM	0.25	3,600.00	900.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM E	LUMP SUM	0.50	3,500.00	1,750.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM G	LUMP SUM	0.50	3,300.00	1,650.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM I	LUMP SUM	0.25	3,700.00	925.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM L	LUMP SUM	0.50	3,900.00	1,950.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM M	LUMP SUM	0.50	3,200.00	1,600.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM N	LUMP SUM	0.50	4,000.00	2,000.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM P	LUMP SUM	0.50	3,600.00	1,800.00
2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM Q	LUMP SUM	0.50	3,700.00	1,850.00
2565.501	TRAFFIC CONTROL INTERCONNECT SYSTEM A	SYSTEM	0.50	118,000.00	59,000.00
2565.501	TRAFFIC CONTROL INTERCONNECT SYSTEM B	SYSTEM	0.50	131,000.00	65,500.00
2565.516	TRAFFIC CONTROL SIGNAL SYSTEM A	SYSTEM	0.25	210,000.00	52,500.00

ITEM NUMBER	SP 6221-107 WORK ITEM	UNIT	QUANTITY	UNIT PRICE	COST (2)
2021.501	MOBILIZATION	LUMP SUM	0.11	500,000.00	55,000.00
2031.502	FIELD OFFICE	EACH	0.11	49,000.00	5,390.00
2031.502	FIELD LABORATORY	EACH	0.11	34,000.00	3,740.00
2101.502	CLEARING	EACH	7.00	450.00	3,150.00
2101.502	GRUBBING	EACH	7.00	250.00	1,750.00
2104.502	REMOVE VEHICULAR GATE	EACH	4.00	1,000.00	4,000.00
2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	72.00	700.00	50,400.00
2104.502	REMOVE CASTING	EACH	77.00	200.00	15,400.00
2104.502	REMOVE FOUNDATION	EACH	1.00	1,000.00	1,000.00
2104.502	REMOVE SIGN	EACH	8.00	60.00	480.00
2104.502	REMOVE SIGN PANEL	EACH	2.00	50.00	100.00
2104.502	REMOVE LIGHT FOUNDATION	EACH	3.00	800.00	2,400.00
2104.502	SALVAGE LIGHTING UNIT	EACH	3.00	500.00	1,500.00
2104.502	SALVAGE BENCH	EACH	10.00	400.00	4,000.00
2104.502	SALVAGE BICYCLE RACK	EACH	3.00	300.00	900.00
2104.502	ABANDON MANHOLE	EACH	3.00	2,000.00	6,000.00
2104.502	ABANDON MISCELLANEOUS STRUCTURE	EACH	1.00	1,500.00	1,500.00
2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	39.00	5.50	214.50
2104.503	SAWING BITUMINOUS PAVEMENT	LIN FT	226.00	2.00	452.00
2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	682.00	25.00	17,050.00
2104.503	* REMOVE SEWER PIPE (SANITARY)	LIN FT	1,136.00	35.00	39,760.00
2104.503	REMOVE CURB AND GUTTER	LIN FT	2,053.00	5.00	10,265.00
2104.503	REMOVE CABLES	LIN FT	460.00	1.50	690.00
2104.503	REMOVE SANITARY SERVICE PIPE	LIN FT	222.00	20.00	4,440.00
2104.503	REMOVE CONDUIT SYSTEM	LIN FT	295.00	4.00	1,180.00
2104.503	SALVAGE ORNAMENTAL RAIL	LIN FT	143.00	50.00	7,150.00
2104.504	REMOVE PAVEMENT	SQ YD	2,758.00	7.00	19,306.00
2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	28.00	14.00	392.00
2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	265.00	8.00	2,120.00
2104.518	REMOVE CONCRETE WALK	SQ FT	185.00	1.50	277.50
2104.601	SALVAGE MISCELLANEOUS STRUCTURES	LUMP SUM	1.00	3,500.00	3,500.00
2104.601	HAUL SALVAGED MATERIAL	LUMP SUM	1.00	5,000.00	5,000.00
2104.602	SALVAGE SIGN SPECIAL	EACH	2.00	50.00	100.00
2104.602	SALVAGE SIGN PANEL SPECIAL	EACH	29.00	50.00	1,450.00

(2) 100% CITY FUNDS
(P) = PLAN QUANTITY

1055887

ITEM NUMBER	SP 6221-107 WORK ITEM		UNIT	QUANTITY	UNIT PRICE	COST (2)
2106.507	EXCAVATION - COMMON (P)		CU YD	3,550.00	12.00	42,600.00
2106.507	EXCAVATION - SUBGRADE (P)		CU YD	802.00	13.00	10,426.00
2106.507	GRANULAR EMBANKMENT (CV) (P)		CU YD	809.00	20.00	16,180.00
2106.507	COMMON EMBANKMENT (CV) (P)		CU YD	836.00	10.00	8,360.00
2106.607	EXCAVATION SPECIAL		CU YD	181.00	40.00	7,240.00
2106.609	HAUL AND DISPOSE OF CONTAMINATED MATERIAL		TON	326.00	100.00	32,600.00
2123.610	* MACHINE TIME		HOURL	8.00	600.00	4,800.00
2211.507	AGGREGATE BASE (CV) CLASS 5 (P)		CU YD	647.00	35.00	22,645.00
2232.504	MILL BITUMINOUS SURFACE (2.0") (P)		SQ YD	3,974.00	1.50	5,961.00
2301.504	CONCRETE PAVEMENT 8.0"		SQ YD	83.00	100.00	8,300.00
2301.602	DRILL AND GROUT REINF BAR (EPOXY COATED)		EACH	77.00	20.00	1,540.00
2301.508	SUPPLEMENTAL PAVEMENT REINFORCEMENT		POUND	457.00	3.00	1,371.00
2331.603	JOINT ADHESIVE		LIN FT	1,485.00	1.00	1,485.00
2360.509	TYPE SP 12.5 BITUMINOUS MIXTURE FOR PATCHING		TON	1.00	\$150.00	\$150.00
2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)		TON	448.00	100.00	44,800.00
2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (4,C)		TON	187.00	100.00	18,700.00
2451.609	* GRANULAR BACKFILL		TON	10,612.00	40.00	424,480.00
2451.609	* GRANULAR FOUNDATION AND/OR BEDDING		TON	836.00	45.00	37,620.00
2451.609	* AGGREGATE FOUNDATION		TON	13.00	50.00	650.00
2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V		LIN FT	173.00	120.00	20,760.00
2503.503	15" RC PIPE SEWER DESIGN 3006 CLASS V		LIN FT	328.00	125.00	41,000.00
2503.503	18" RC PIPE SEWER DESIGN 3006 CLASS V		LIN FT	310.00	135.00	41,850.00
2503.601	* MAINTENANCE OF SANITARY SEWERS		LUMP SUM	1.00	15,000.00	15,000.00
2503.602	* INSPECTION HOLE		EACH	5.00	350.00	1,750.00
2503.602	* TELEWISE SEWER SERVICE		EACH	7.00	1,100.00	7,700.00
2503.602	CONNECT TO EXISTING STORM SEWER		EACH	63.00	2,000.00	126,000.00
2503.603	* PLUG FILL AND ABANDON PIPE SEWER		LIN FT	511.00	30.00	15,330.00
2503.603	CLEAN AND VIDEO TAPE PIPE SEWER		LIN FT	23,015.00	15.00	345,225.00
2503.603	* 10" PVC PIPE SEWER		LIN FT	677.00	180.00	121,860.00
2503.603	* 18" PVC PIPE SEWER		LIN FT	148.00	230.00	34,040.00
2503.603	* 30" PVC PIPE SEWER		LIN FT	311.00	330.00	102,630.00
2503.603	* 6" PVC SANITARY SERVICE PIPE		LIN FT	222.00	130.00	28,860.00
2503.603	* LINING SEWER PIPE 9"		LIN FT	61.00	100.00	6,100.00
2503.603	* LINING SEWER PIPE 18"		LIN FT	125.00	200.00	25,000.00

(2) 100% CITY FUNDS
(P) = PLAN QUANTITY

1055887

ITEM NUMBER	SP 6221-107 WORK ITEM	UNIT	QUANTITY	UNIT PRICE	COST (2)
2503.603	* LINING SEWER PIPE 24"	LIN FT	109.00	220.00	23,980.00
2503.603	LINING SEWER PIPE 60"	LIN FT	47.00	1,400.00	65,800.00
2503.606	* CRACK SEALANT	GALLON	280.00	10.00	2,800.00
2503.610	* PUMPING	HOURL	10.00	60.00	600.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 5	EACH	2.00	17,500.00	35,000.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 6	EACH	1.00	18,000.00	18,000.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 7	EACH	1.00	25,000.00	25,000.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 8	EACH	1.00	35,000.00	35,000.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 9	EACH	2.00	12,000.00	24,000.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 10	EACH	1.00	12,000.00	12,000.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 11	EACH	5.00	17,500.00	87,500.00
2506.502	* CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL 12	EACH	10.00	14,000.00	140,000.00
2506.502	CASTING ASSEMBLY	EACH	136.00	1,000.00	136,000.00
2506.502	ADJUST FRAME AND RING CASTING	EACH	2.00	900.00	1,800.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	49.80	800.00	39,840.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-60	LIN FT	4.50	1,300.00	5,850.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SPECIAL	LIN FT	76.40	900.00	68,760.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	86.80	900.00	78,120.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	LIN FT	31.00	1,200.00	37,200.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72-4020	LIN FT	28.30	1,600.00	45,280.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 84-4020	LIN FT	4.70	2,000.00	9,400.00
2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 96-4020	LIN FT	5.30	2,500.00	13,250.00
2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	12.00	750.00	9,000.00
2506.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH	2.00	2,000.00	4,000.00
2506.603	* DRAINAGE STRUCTURE LINER	LIN FT	993.50	500.00	496,750.00
2521.518	4" CONCRETE WALK	SQ FT	131.00	8.00	1,048.00
2521.518	4" BITUMINOUS WALK	SQ FT	3,145.00	4.25	13,366.25
2521.602	DRILL & GROUT REINF BAR (EPOXY COATED)	EACH	48.00	12.00	576.00
2521.618	CONCRETE CURB RAMP WALK	SQ FT	464.00	20.00	9,280.00
2531.503	CONCRETE CURB AND GUTTER DESIGN B612	LIN FT	59.00	28.00	1,652.00
2531.503	CONCRETE CURB AND GUTTER DESIGN B618	LIN FT	570.00	28.00	15,960.00
2531.503	CONCRETE CURB AND GUTTER DESIGN B624	LIN FT	668.00	28.00	18,704.00
2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	33.00	100.00	3,300.00
2531.603	CONCRETE CURB AND GUTTER	LIN FT	159.00	40.00	6,360.00

(2) 100% CITY FUNDS
(P) = PLAN QUANTITY

1055887

ITEM NUMBER	SP 6221-107 WORK ITEM	UNIT	QUANTITY	UNIT PRICE	COST (2)
2531.604	8" CONCRETE VALLEY GUTTER	SQ YD	23.00	150.00	3,450.00
2531.618	TRUNCATED DOMES	SQ FT	30.00	60.00	1,800.00
2545.502	LIGHT FOUNDATION DESIGN SPECIAL	EACH	3.00	2,000.00	6,000.00
2545.502	GROUNDING ELECTRODE	EACH	3.00	100.00	300.00
2545.503	1.5" NON-METALLIC CONDUIT	LIN FT	258.00	8.00	2,064.00
2545.503	UNDERGROUND WIRE 1/C 4 AWG	LIN FT	1,819.00	8.00	14,552.00
2545.602	INSTALL LIGHTING UNIT	EACH	3.00	1,200.00	3,600.00
2563.601	TRAFFIC CONTROL	LUMP SUM	0.11	350,000.00	38,500.00
2564.602	INSTALL SIGN SPECIAL	EACH	2.00	350.00	700.00
2564.602	INSTALL SIGN PANEL SPECIAL	EACH	1.00	350.00	350.00
2564.618	SIGN	SQ FT	73.00	60.00	4,380.00
2564.618	SIGN PANEL	SQ FT	24.00	50.00	1,200.00
2572.503	TEMPORARY FENCE	LIN FT	870.00	3.50	3,045.00
2572.503	CLEAN ROOT CUTTING	LIN FT	96.00	6.00	576.00
2572.506	WATER	GALLON	1,120.00	2.00	2,240.00
2573.502	STORM DRAIN INLET PROTECTION	EACH	9.00	275.00	2,475.00
2573.503	SILT FENCE; TYPE MS	LIN FT	292.00	3.00	876.00
2573.503	SEDIMENT CONTROL LOG TYPE COMPOST	LIN FT	210.00	3.00	630.00
2574.505	SUBSOILING	ACRE	1.00	300.00	300.00
2574.505	SOIL BED PREPARATION	ACRE	1.00	200.00	200.00
2574.508	FERTILIZER TYPE 3	POUND	114.00	1.00	114.00
2575.504	RAPID STABILIZATION METHOD 4	SQ YD	2,619.00	2.50	6,547.50
2575.504	ROLLED EROSION PREVENTION CATEGORY 25	SQ YD	2,619.00	2.50	6,547.50
2575.505	SEEDING	ACRE	1.00	325.00	325.00
2575.505	MOWING	ACRE	2.00	70.00	140.00
2575.505	WEED SPRAYING	ACRE	1.00	200.00	200.00
2575.508	HYDRAULIC STABILIZED FIBER MATRIX	POUND	61.00	1.50	91.50
2575.523	RAPID STABILIZATION METHOD 3	M GALLON	9.00	700.00	6,300.00
2575.608	SEED SOUTHERN BOULEVARD	POUND	90.00	7.00	630.00
2582.503	4" SOLID LINE PAINT	LIN FT	306.00	0.20	61.20
2582.503	6" SOLID LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	102.00	1.25	127.50
2582.503	4" BROKEN LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	9.00	1.00	9.00
2582.503	10" DOTTED LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	24.00	3.50	84.00
2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	227.00	2.00	454.00

(4) 75% STATE, 25% CITY FUNDS

1055887

ITEM NUMBER	SP 6228-69 CITY FURNISHED MATERIALS - SIGNAL SYSTEM A	UNIT	QUANTITY	UNIT PRICE	COST (4)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	HOUR	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
			(4) 75% STATE	37,821.95	
			25% CITY	12,607.31	

(5) 50% STATE (SP 6221-107), 50% STATE (SP 6228-69) FUNDS

ITEM NUMBER	SP 6221-107, SP 6228-69 CITY FURNISHED MATERIALS - SIGNAL SYSTEM D	UNIT	QUANTITY	UNIT PRICE	COST (5)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	HOUR	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
			(5) 50% STATE (SP 6221-107)	25,214.63	
			50% STATE (SP 6228-69)	25,214.63	

ITEM NUMBER	SP 6221-107 CITY FURNISHED MATERIALS - SIGNAL SYSTEM E	UNIT	QUANTITY	UNIT PRICE	COST (6)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	hour	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
			(6) 50% STATE	25,214.63	
			50% CITY	25,214.63	

ITEM NUMBER	SP 6221-107 CITY FURNISHED MATERIALS - SIGNAL SYSTEM G	UNIT	QUANTITY	UNIT PRICE	COST (7)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	hour	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
			(7) 50% STATE	25,214.63	
			50% CITY	25,214.63	

ITEM NUMBER	SP 6221-107 CITY FURNISHED MATERIALS - SIGNAL SYSTEM I	UNIT	QUANTITY	UNIT PRICE	COST (8)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	hour	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
			(8) 75% STATE	37,821.95	
			25% CITY	12,607.31	

ITEM NUMBER	SP 6221-107 CITY FURNISHED MATERIALS - SIGNAL SYSTEM L	UNIT	QUANTITY	UNIT PRICE	COST (9)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	hour	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
			(9) 50% STATE	25,214.63	
			50% CITY	25,214.63	

ITEM NUMBER	SP 6221-107 CITY FURNISHED MATERIALS - SIGNAL SYSTEM P	UNIT	QUANTITY	UNIT PRICE	COST (12)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	HOUR	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
	(12) 50% STATE		25,214.63		
	50% CITY		25,214.63		

ITEM NUMBER	SP 6221-107 CITY FURNISHED MATERIALS - SIGNAL SYSTEM Q	UNIT	QUANTITY	UNIT PRICE	COST (13)
	*** LUMP SUM AMOUNT ***				
	CABINET BUILDUP LABOR	HOUR	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
	(13) 50% STATE		25,214.63		
	50% CITY		25,214.63		

ITEM NUMBER	SP 6221-107, SP 062-627-007 CITY OF SAINT PAUL FURNISHED MATERIALS - SIGNAL SYSTEM O	UNIT	QUANTITY	UNIT PRICE	COST
	*** LUMP SUM AMOUNT ***				
	*** FOR INFORMATION ONLY ***				
	CABINET BUILDUP LABOR	HOUR	80.00	65.00	5,200.00
	332D CABINET	EACH	1.00	38,884.20	38,884.20
	CABINET BASE, 332D PB40582116B24	EACH	1.00	1,155.92	1,155.92
	EVP DETECTOR 721	EACH	4.00	596.80	2,387.20
	ETHERNET SWITCH WITH 2 SPF'S	EACH	1.00	2,113.12	2,113.12
	POLIMOD	EACH	2.00	344.41	688.82
				TOTAL	50,429.26
			50% STATE	25,214.63	
			50% COUNTY	25,214.63	

Exhibit A - Storm Sewer Maintenance

GENERAL LEGEND

--- CONSTRUCTION LIMITS



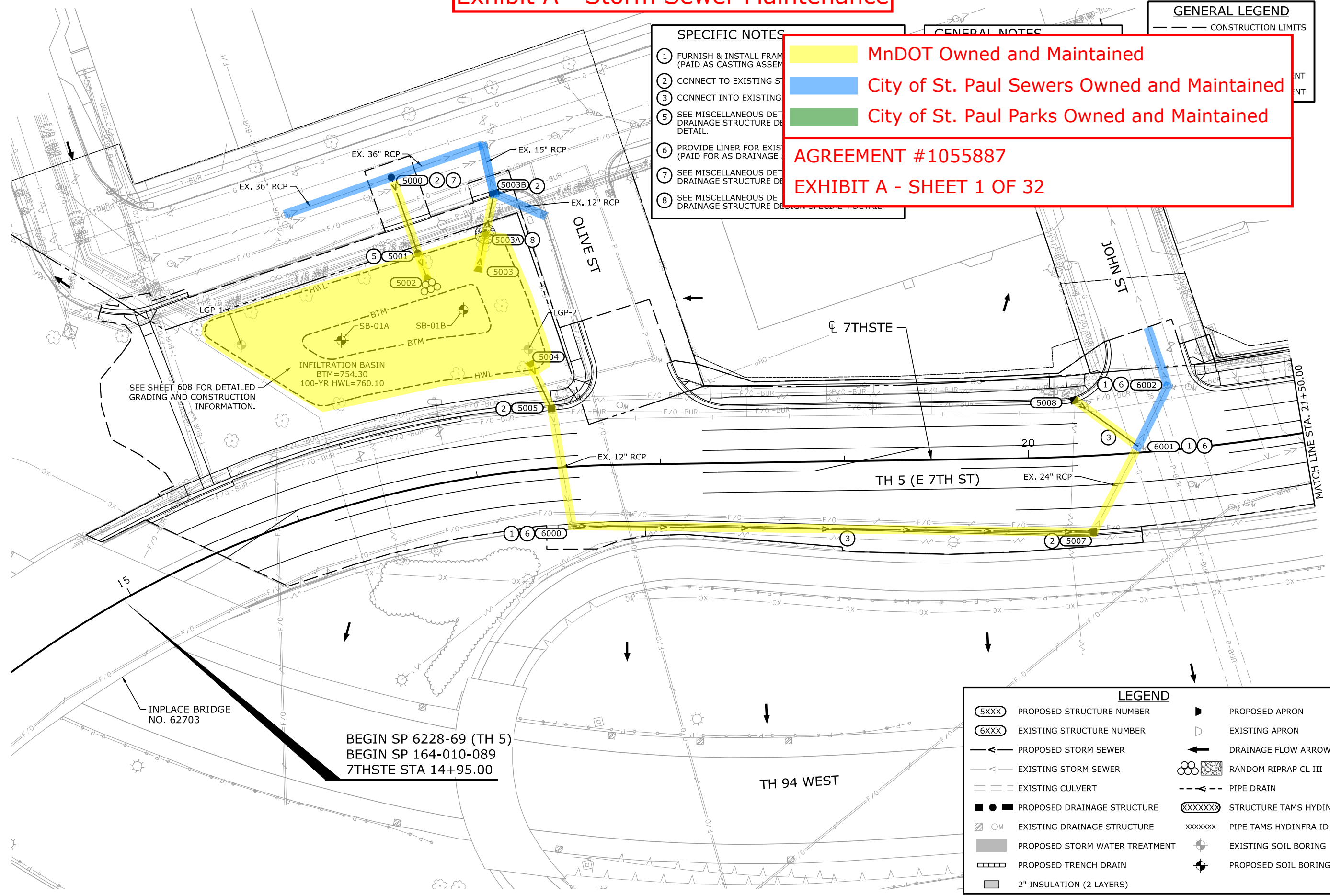
SPECIFIC NOTES

- ① FURNISH & INSTALL FRAM (PAID AS CASTING ASSEM)
- ② CONNECT TO EXISTING S
- ③ CONNECT INTO EXISTING
- ⑤ SEE MISCELLANEOUS DET DRAINAGE STRUCTURE DE DETAIL.
- ⑥ PROVIDE LINER FOR EXIS (PAID FOR AS DRAINAGE
- ⑦ SEE MISCELLANEOUS DET DRAINAGE STRUCTURE DE
- ⑧ SEE MISCELLANEOUS DET DRAINAGE STRUCTURE DE

GENERAL NOTES

MnDOT Owned and Maintained
 City of St. Paul Sewers Owned and Maintained
 City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
 EXHIBIT A - SHEET 1 OF 32



SEE SHEET 608 FOR DETAILED GRADING AND CONSTRUCTION INFORMATION.

INPLACE BRIDGE NO. 62703

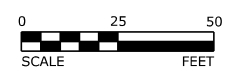
BEGIN SP 6228-69 (TH 5)
 BEGIN SP 164-010-089
 7THSTE STA 14+95.00

MATCH LINE STA. 21+50.00

LEGEND	
5XXX	PROPOSED STRUCTURE NUMBER
6XXX	EXISTING STRUCTURE NUMBER
	PROPOSED STORM SEWER
	EXISTING STORM SEWER
	EXISTING CULVERT
	PROPOSED DRAINAGE STRUCTURE
	EXISTING DRAINAGE STRUCTURE
	PROPOSED STORM WATER TREATMENT
	PROPOSED TRENCH DRAIN
	2" INSULATION (2 LAYERS)
	PROPOSED APRON
	EXISTING APRON
	DRAINAGE FLOW ARROW
	RANDOM RIPRAP CL III
	PIPE DRAIN
XXXXXXX	STRUCTURE TAMS HYDINFRA ID
xxxxxxx	PIPE TAMS HYDINFRA ID
	EXISTING SOIL BORING
	PROPOSED SOIL BORING

MODEL: 1 - Drainage Plan
 USER: sschwiegler
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-009+6\Road_Design\Sheets\cdf6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:18:47 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



DRAINAGE PLAN
 PLAN PAGE 1 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

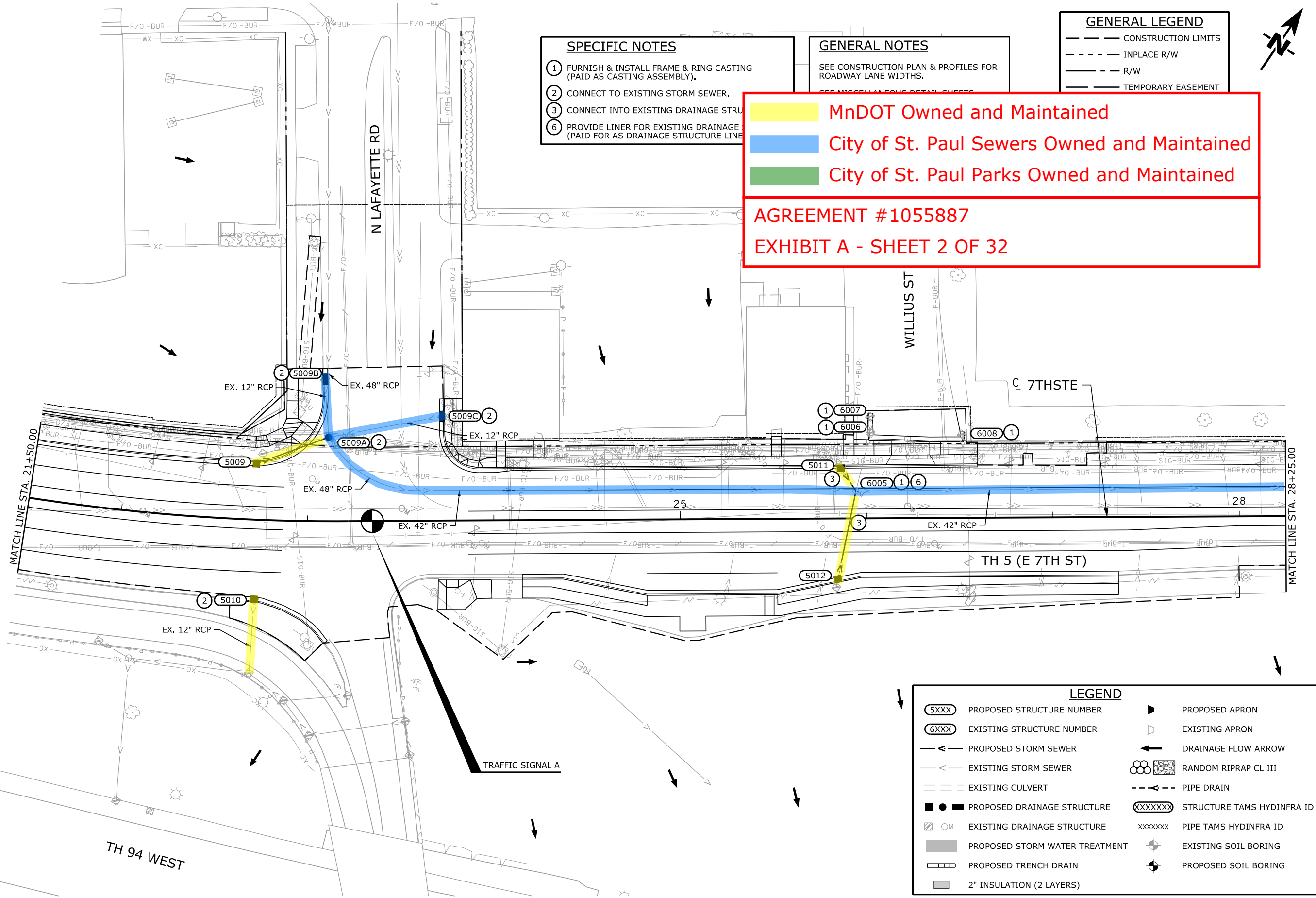
SHEET
 539
 OF
 918

MODEL: 2 - Drainage Plan

USER: sschwiegler

PEN TABLE: cdf6221107.plantset.tbl
FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Streets\cdf6221107_dr.dgn

PLOT DRIVER: pdf_bw_11x17only.pltcfq
PLOT DATE: 7/18/2024 12:18:48 PM



- SPECIFIC NOTES**
- 1 FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - 2 CONNECT TO EXISTING STORM SEWER.
 - 3 CONNECT INTO EXISTING DRAINAGE STRUCTURE.
 - 6 PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.

SEE MISCELLANEOUS DETAIL SHEETS.

- GENERAL LEGEND**
- CONSTRUCTION LIMITS
 - - - INPLACE R/W
 - - - R/W
 - - - TEMPORARY EASEMENT



MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

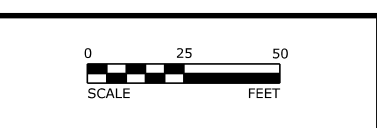
City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 2 OF 32

- LEGEND**
- (5XXX) PROPOSED STRUCTURE NUMBER
 - (6XXX) EXISTING STRUCTURE NUMBER
 - PROPOSED STORM SEWER
 - - - EXISTING STORM SEWER
 - - - EXISTING CULVERT
 - PROPOSED DRAINAGE STRUCTURE
 - EXISTING DRAINAGE STRUCTURE
 - PROPOSED STORM WATER TREATMENT
 - ▨ PROPOSED TRENCH DRAIN
 - 2" INSULATION (2 LAYERS)
 - ▴ PROPOSED APRON
 - ◁ EXISTING APRON
 - ← DRAINAGE FLOW ARROW
 - RANDOM RIPRAP CL III
 - - - PIPE DRAIN
 - XXXXXX STRUCTURE TAMS HYDINFRA ID
 - xxxxxxx PIPE TAMS HYDINFRA ID
 - ⊕ EXISTING SOIL BORING
 - ⊕ PROPOSED SOIL BORING

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED: SRS
DRAWN: SRS
CHECKED: JLG



DRAINAGE PLAN

PLAN PAGE 2 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 540 OF 918

MODEL: 3 - Drainage Plan

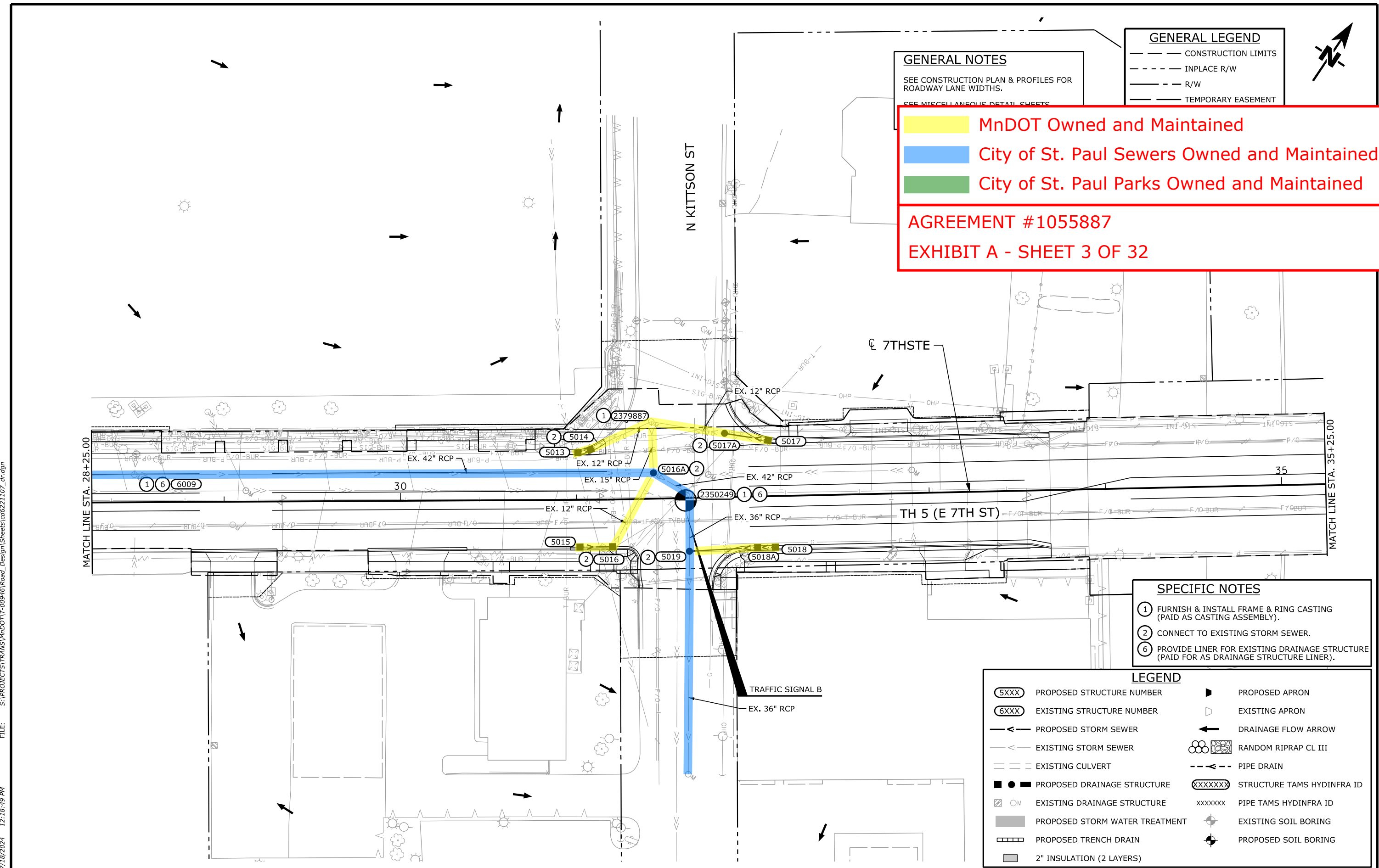
USER: ssschwieger

PEN TABLE: c:\6221107\plans\tbl

FILE: S:\PROJECTS\TRANS\WinDOT\T-009+6\Road_Design\Streets\c6221107_dr.dgn

PLOT DRIVER: pdf_bw_11x17only.plt

PLOT DATE: 7/18/2024 12:18:49 PM



GENERAL NOTES
 SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.
 SEE MISCELLANEOUS DETAIL SHEETS

GENERAL LEGEND
 --- CONSTRUCTION LIMITS
 - - - INPLACE R/W
 --- R/W
 --- TEMPORARY EASEMENT

MnDOT Owned and Maintained
City of St. Paul Sewers Owned and Maintained
City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
EXHIBIT A - SHEET 3 OF 32

SPECIFIC NOTES
 1 FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 2 CONNECT TO EXISTING STORM SEWER.
 6 PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◻	EXISTING APRON
—<	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -<	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -<	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	(XXXXXX)	STRUCTURE TAMS HYDINFRA ID
◻ ○ M	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



DRAINAGE PLAN
 PLAN PAGE 3 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 541 OF 918

MnDOT Owned and Maintained
 City of St. Paul Sewers Owned and Maintained
 City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
 EXHIBIT A - SHEET 4 OF 32

GENERAL LEGEND	
	CONSTRUCTION LIMITS
	INPLACE R/W
	R/W
	TEMPORARY EASEMENT
	PERMANENT EASEMENT

GENERAL NOTES

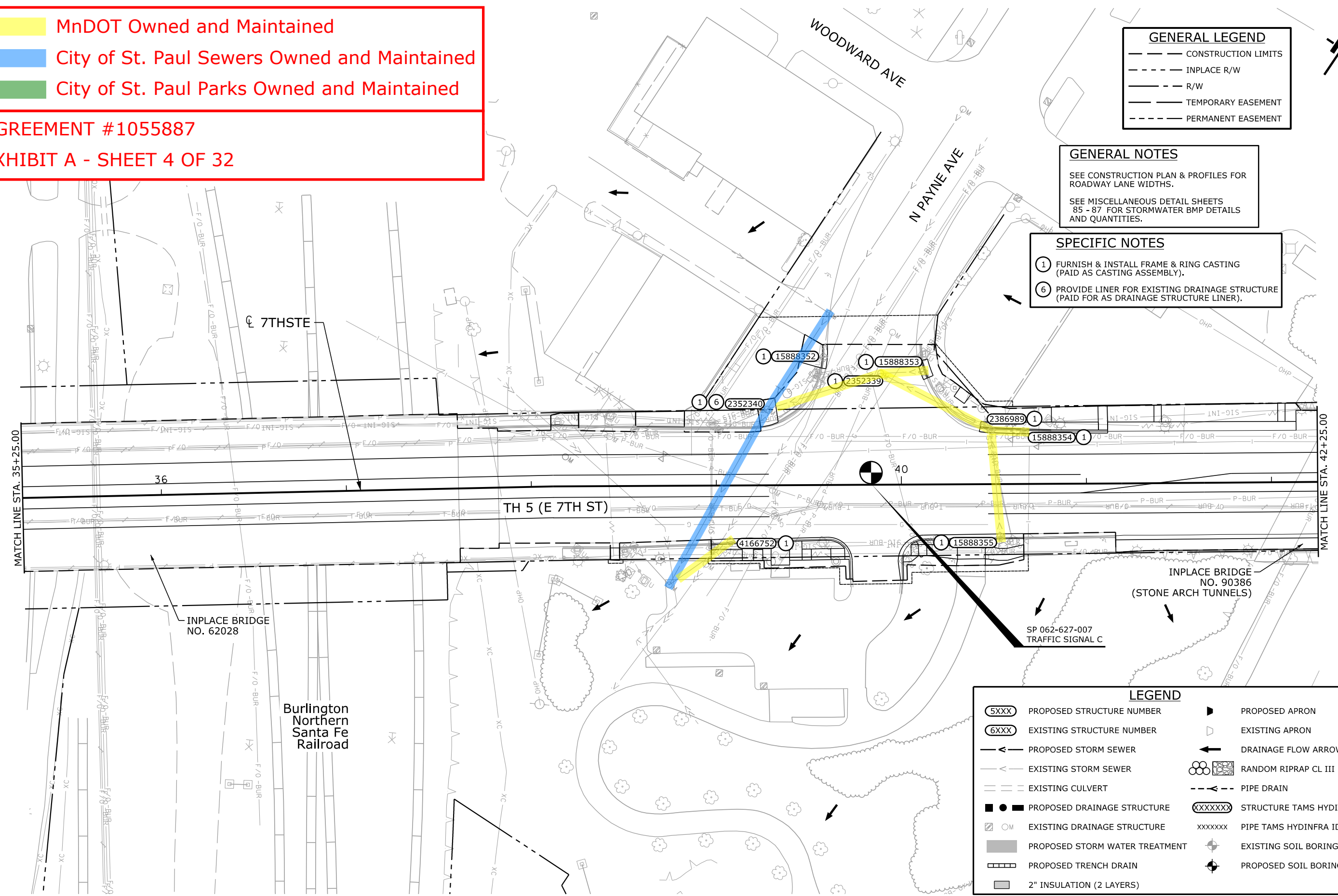
SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.

SEE MISCELLANEOUS DETAIL SHEETS 85 - 87 FOR STORMWATER BMP DETAILS AND QUANTITIES.

SPECIFIC NOTES

① FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).

⑥ PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).



LEGEND			
	PROPOSED STRUCTURE NUMBER		PROPOSED APRON
	EXISTING STRUCTURE NUMBER		EXISTING APRON
	PROPOSED STORM SEWER		DRAINAGE FLOW ARROW
	EXISTING STORM SEWER		RANDOM RIPRAP CL III
	EXISTING CULVERT		PIPE DRAIN
	PROPOSED DRAINAGE STRUCTURE		STRUCTURE TAMS HYDINFRA ID
	EXISTING DRAINAGE STRUCTURE		PIPE TAMS HYDINFRA ID
	PROPOSED STORM WATER TREATMENT		EXISTING SOIL BORING
	PROPOSED TRENCH DRAIN		PROPOSED SOIL BORING
	2" INSULATION (2 LAYERS)		

MODEL: 4 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:18:49 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
 DRAWN SRS
 CHECKED JLG



DRAINAGE PLAN	
PLAN PAGE 4 of 32	SHEET 542 OF 918
SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023	



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
---	INPLACE R/W
---	RAW

GENERAL NOTES
SEE CONSTRUCTION PLAN & PROFILES FOR

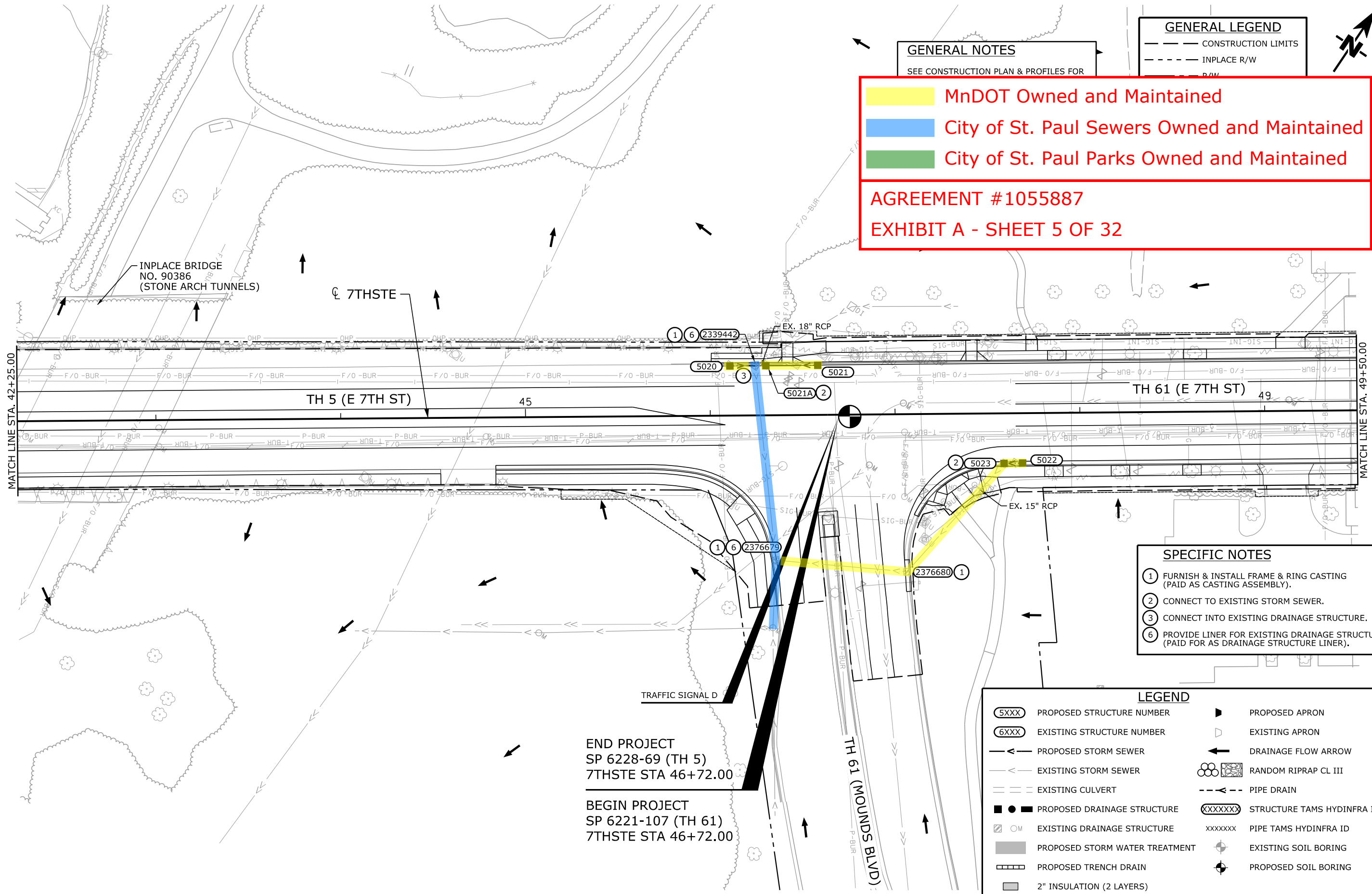
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 5 OF 32



SPECIFIC NOTES	
①	FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
②	CONNECT TO EXISTING STORM SEWER.
③	CONNECT INTO EXISTING DRAINAGE STRUCTURE.
⑥	PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

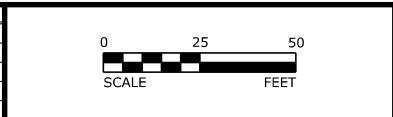
LEGEND			
(5XXX)	PROPOSED STRUCTURE NUMBER	▶	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
—▶—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
---	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
---	EXISTING CULVERT	- - -	PIPE DRAIN
■ ●	PROPOSED DRAINAGE STRUCTURE	XXXXXXX	STRUCTURE TAMS HYDINFRA ID
◊ ○	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

END PROJECT
SP 6228-69 (TH 5)
7THSTE STA 46+72.00

BEGIN PROJECT
SP 6221-107 (TH 61)
7THSTE STA 46+72.00

MODEL: 5 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\09+46\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:50 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



MODEL: 6 - Drainage Plan

USER: ssschwieger
PEN TABLE: c:\6221107\plan\set.tbl
FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Streets\c6221107_dr.dgn

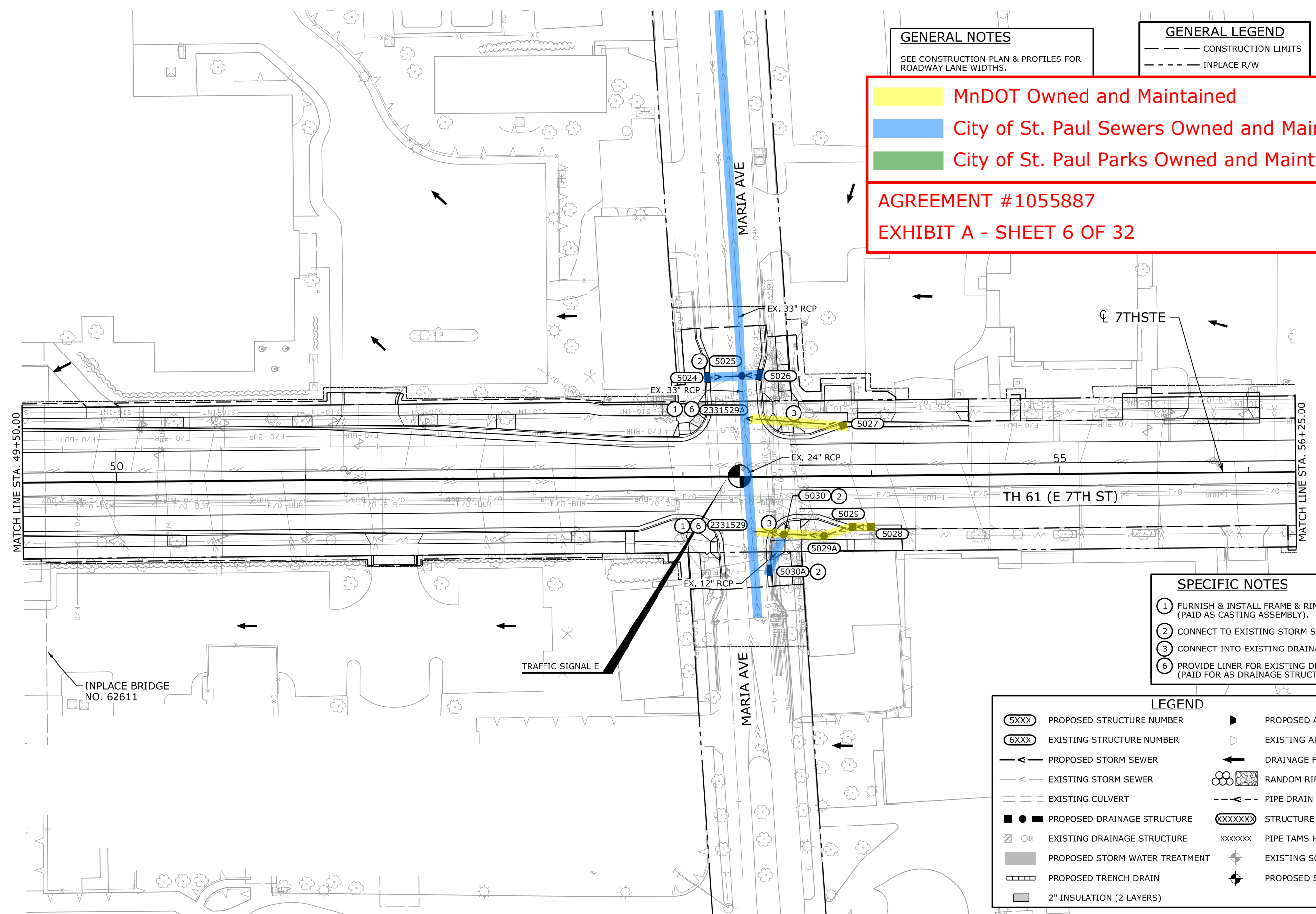
PLOT DRIVER: pdf_bw_11x17only.pltcfq
PLOT DATE: 7/18/2024 12:18:50 PM

GENERAL NOTES
SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.

GENERAL LEGEND
--- CONSTRUCTION LIMITS
- - - INPLACE R/W



MnDOT Owned and Maintained
City of St. Paul Sewers Owned and Maintained
City of St. Paul Parks Owned and Maintained
AGREEMENT #1055887
EXHIBIT A - SHEET 6 OF 32



SPECIFIC NOTES
① FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
② CONNECT TO EXISTING STORM SEWER.
③ CONNECT INTO EXISTING DRAINAGE STRUCTURE.
⑥ PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

LEGEND
5XXX PROPOSED STRUCTURE NUMBER
6XXX EXISTING STRUCTURE NUMBER
--- PROPOSED STORM SEWER
--- EXISTING STORM SEWER
--- EXISTING CULVERT
■ PROPOSED DRAINAGE STRUCTURE
◻ EXISTING DRAINAGE STRUCTURE
■ PROPOSED STORM WATER TREATMENT
▨ PROPOSED TRENCH DRAIN
■ 2" INSULATION (2 LAYERS)
▶ PROPOSED APRON
◻ EXISTING APRON
← DRAINAGE FLOW ARROW
○ RANDOM RIPRAP CL III
--- PIPE DRAIN
XXXXXX STRUCTURE TAMS HYDINFRA ID
xxxxxxx PIPE TAMS HYDINFRA ID
⊕ EXISTING SOIL BORING
⊕ PROPOSED SOIL BORING

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Jessica Griffin
NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
DRAWN: SRS
CHECKED: JLG

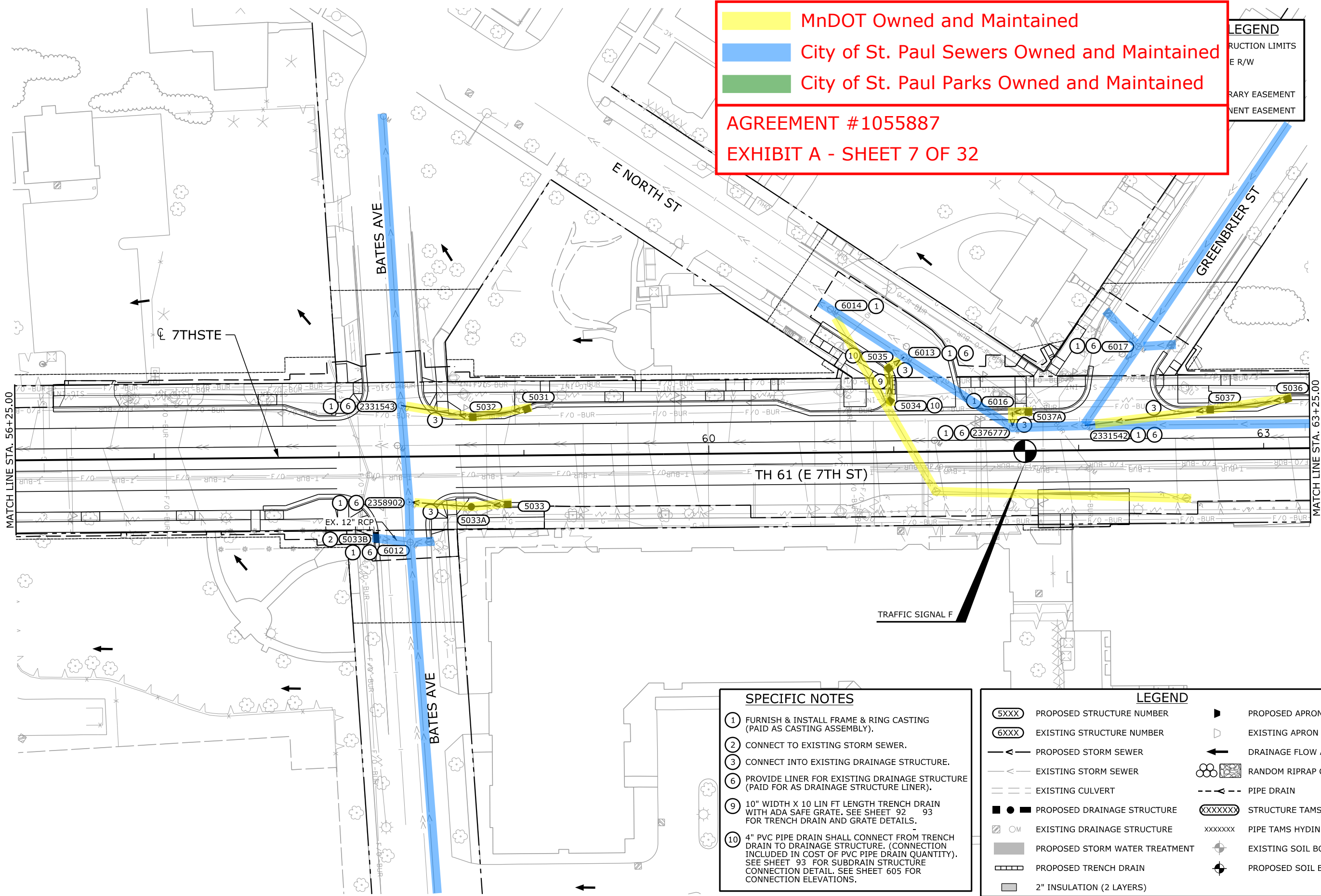


DRAINAGE PLAN
PLAN PAGE 6 of 32
SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023
SHEET 544 OF 918

MnDOT Owned and Maintained
 City of St. Paul Sewers Owned and Maintained
 City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
EXHIBIT A - SHEET 7 OF 32

LEGEND
 CONSTRUCTION LIMITS
 E R/W
 RARY EASEMENT
 NENT EASEMENT



SPECIFIC NOTES

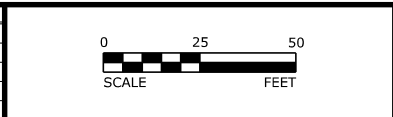
- 1 FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
- 2 CONNECT TO EXISTING STORM SEWER.
- 3 CONNECT INTO EXISTING DRAINAGE STRUCTURE.
- 6 PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).
- 9 10" WIDTH X 10 LIN FT LENGTH TRENCH DRAIN WITH ADA SAFE GRATE. SEE SHEET 92 93 FOR TRENCH DRAIN AND GRATE DETAILS.
- 10 4" PVC PIPE DRAIN SHALL CONNECT FROM TRENCH DRAIN TO DRAINAGE STRUCTURE. (CONNECTION INCLUDED IN COST OF PVC PIPE DRAIN QUANTITY). SEE SHEET 93 FOR SUBDRAIN STRUCTURE CONNECTION DETAIL. SEE SHEET 605 FOR CONNECTION ELEVATIONS.

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
—<	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	(XXXXXX)	STRUCTURE TAMS HYDINFRA ID
◻ ○ ◻	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
▒	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▒▒▒	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
▒	2" INSULATION (2 LAYERS)		

MODEL: 7 - Drainage Plan
 USER: sschwiegler
 PEN TABLE: cdf6221107.plantset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Streets\cdf6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:18:51 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLG



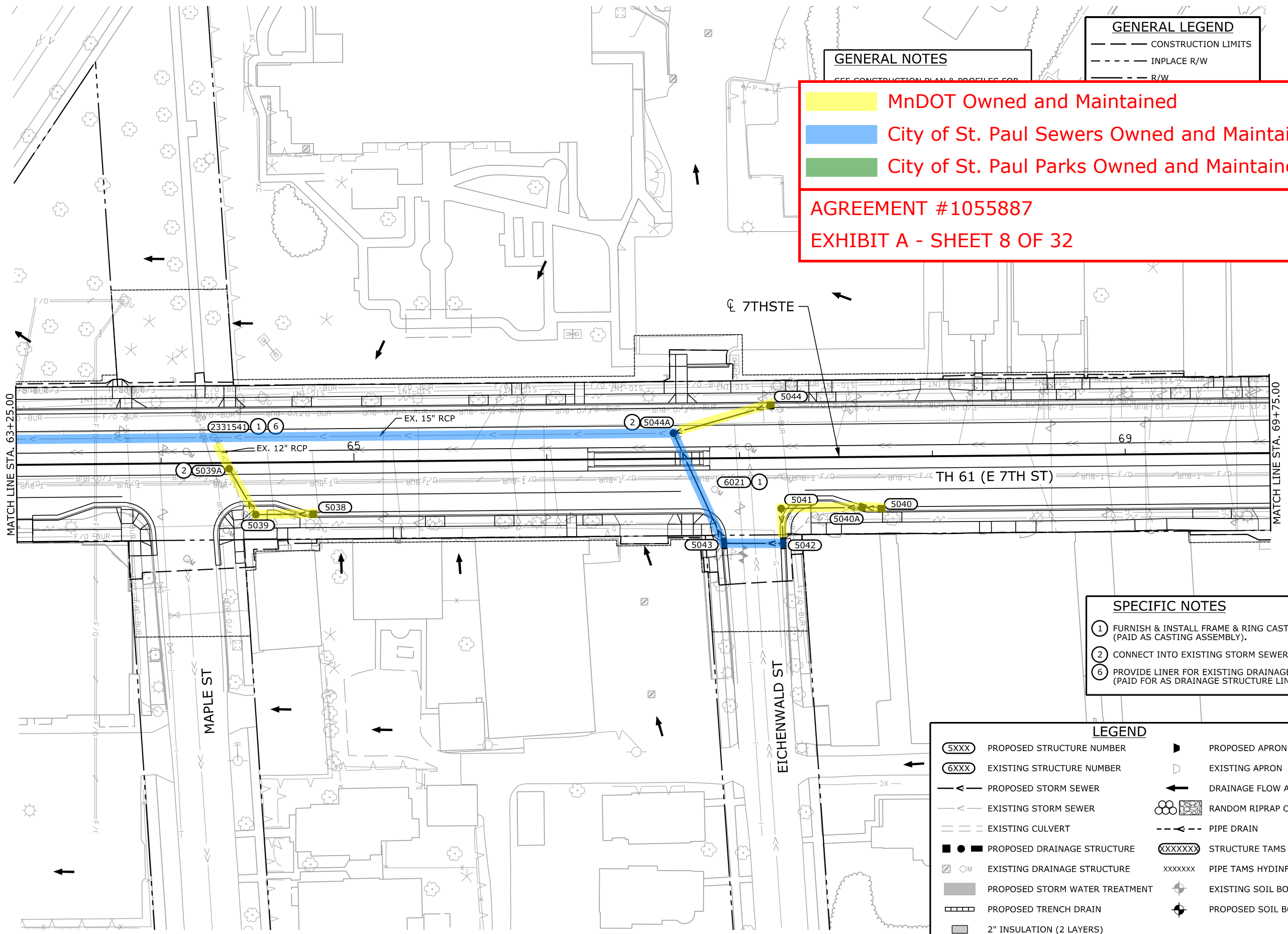
DRAINAGE PLAN
 PLAN PAGE 7 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET
 545
 OF
 918

MODEL: 8 - Drainage Plan

USER: ssschwiegler
PEN TABLE: c:\6221107_planset.tbl
FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Streets\c6221107_dr.dgn

PLOT DRIVER: pdf_bw_11x17only.pltcfq
PLOT DATE: 7/18/2024 12:18:52 PM



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
---	INPLACE R/W
---	R/W

GENERAL NOTES
SEE CONSTRUCTION PLAN & PROFILES FOR

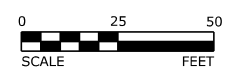
MnDOT Owned and Maintained
 City of St. Paul Sewers Owned and Maintained
 City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
 EXHIBIT A - SHEET 8 OF 32

SPECIFIC NOTES	
①	FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
②	CONNECT INTO EXISTING STORM SEWER.
⑥	PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

LEGEND			
5XXX	PROPOSED STRUCTURE NUMBER	▲	PROPOSED APRON
6XXX	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
←	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
←	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
---	EXISTING CULVERT	---	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	(XXXXXX)	STRUCTURE TAMS HYDINFRA ID
○ ○	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

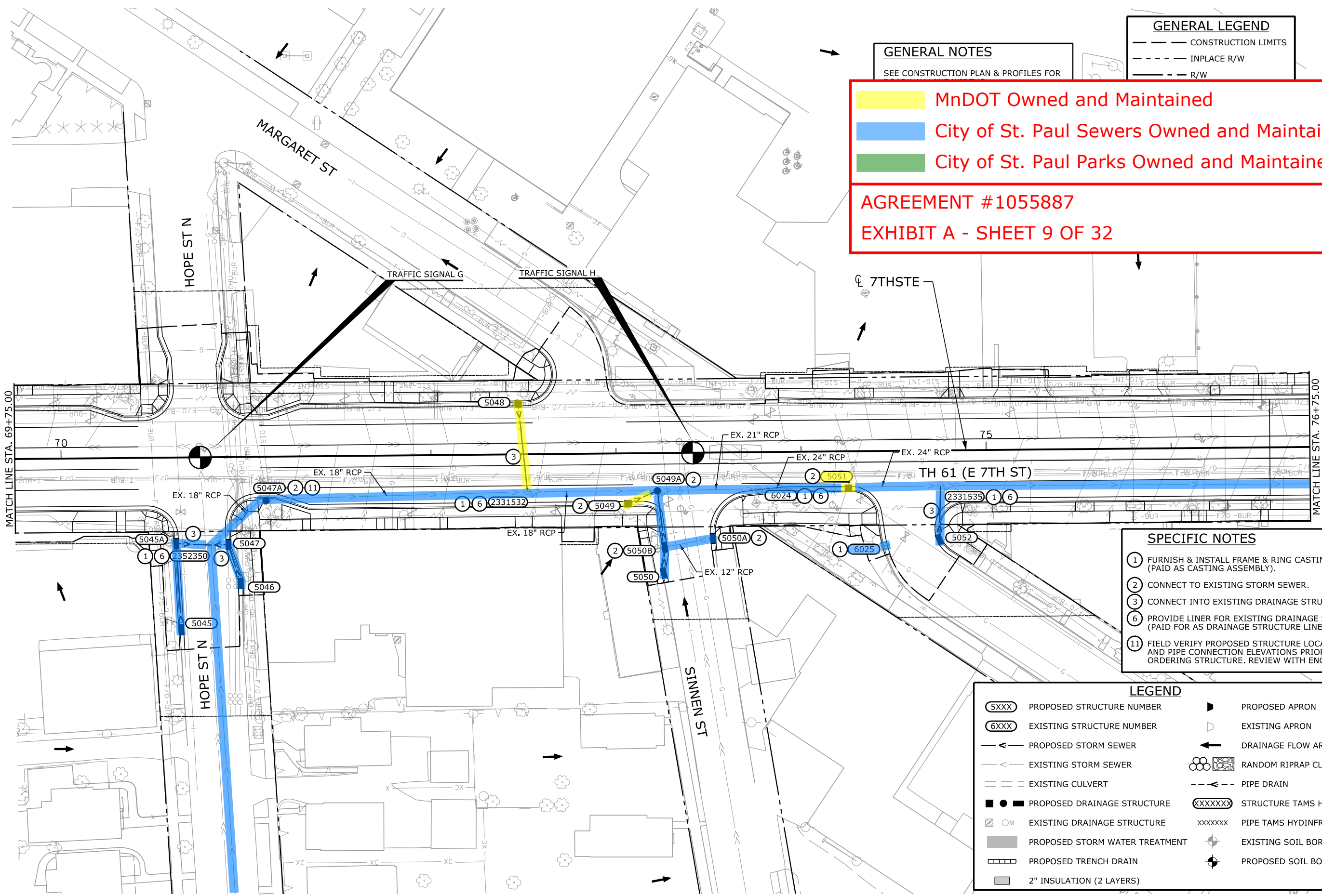
Jessica Griffin
 JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
 DRAWN SRS
 CHECKED JLJ



DRAINAGE PLAN	
PLAN PAGE 8 of 32	SHEET 546 OF 918
SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023	

MODEL: 9 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\TY-009+46\Road_Design\Streets\cdf6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:18:52 PM



GENERAL NOTES
 SEE CONSTRUCTION PLAN & PROFILES FOR

GENERAL LEGEND
 --- CONSTRUCTION LIMITS
 --- INPLACE R/W
 --- R/W

MnDOT Owned and Maintained
City of St. Paul Sewers Owned and Maintained
City of St. Paul Parks Owned and Maintained

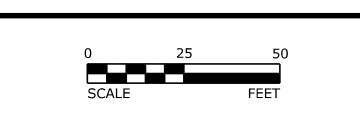
AGREEMENT #1055887
EXHIBIT A - SHEET 9 OF 32

- SPECIFIC NOTES**
- ① FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - ② CONNECT TO EXISTING STORM SEWER.
 - ③ CONNECT INTO EXISTING DRAINAGE STRUCTURE.
 - ⑥ PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).
 - ⑪ FIELD VERIFY PROPOSED STRUCTURE LOCATION AND PIPE CONNECTION ELEVATIONS PRIOR TO ORDERING STRUCTURE. REVIEW WITH ENGINEER.

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	▾	EXISTING APRON
—◀—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
—◀—	EXISTING STORM SEWER	⊙	RANDOM RIPRAP CL III
---	EXISTING CULVERT	---	PIPE DRAIN
■ ●	PROPOSED DRAINAGE STRUCTURE	(XXXXXX)	STRUCTURE TAMS HYDINFRA ID
◊ ○	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

REV. NO.	DATE	BY	CHK	DESCRIPTION



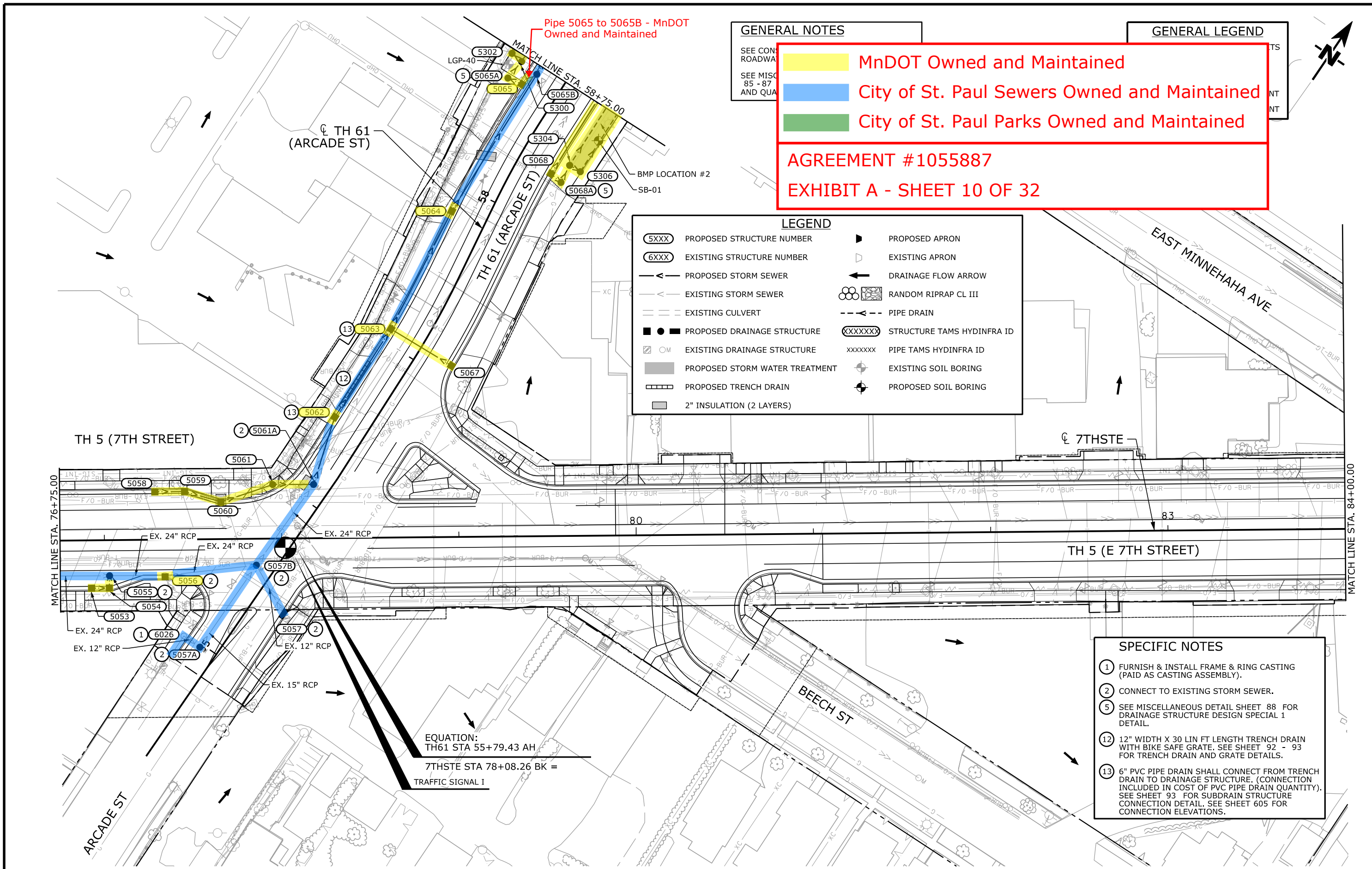
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
 DRAWN SRS
 CHECKED JLG



MODEL: 10 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\1-00946\Road_Design\Streets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:53 PM



GENERAL NOTES
 SEE CON
 ROADWA
 SEE MIS
 85 - 87
 AND QU

GENERAL LEGEND

- MnDOT Owned and Maintained
- City of St. Paul Sewers Owned and Maintained
- City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
EXHIBIT A - SHEET 10 OF 32

LEGEND

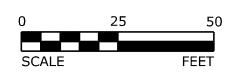
(5XXX)	PROPOSED STRUCTURE NUMBER	▶	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◀	EXISTING APRON
—▲—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -▲	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	⊗	STRUCTURE TAMS HYDINFRA ID
○ M	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬▬▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

SPECIFIC NOTES

- ① FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
- ② CONNECT TO EXISTING STORM SEWER.
- ⑤ SEE MISCELLANEOUS DETAIL SHEET 88 FOR DRAINAGE STRUCTURE DESIGN SPECIAL 1 DETAIL.
- ⑫ 12" WIDTH X 30 LIN FT LENGTH TRENCH DRAIN WITH BIKE SAFE GRATE. SEE SHEET 92 - 93 FOR TRENCH DRAIN AND GRATE DETAILS.
- ⑬ 6" PVC PIPE DRAIN SHALL CONNECT FROM TRENCH DRAIN TO DRAINAGE STRUCTURE. (CONNECTION INCLUDED IN COST OF PVC PIPE DRAIN QUANTITY). SEE SHEET 93 FOR SUBDRAIN STRUCTURE CONNECTION DETAIL. SEE SHEET 605 FOR CONNECTION ELEVATIONS.

EQUATION:
 TH61 STA 55+79.43 AH
 7THSTE STA 78+08.26 BK =
 TRAFFIC SIGNAL I

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
 DRAWN SRS
 CHECKED JLG



GENERAL LEGEND

- CONSTRUCTION LIMITS
- INPLACE R/W
- R/W
- TEMPORARY EASEMENT



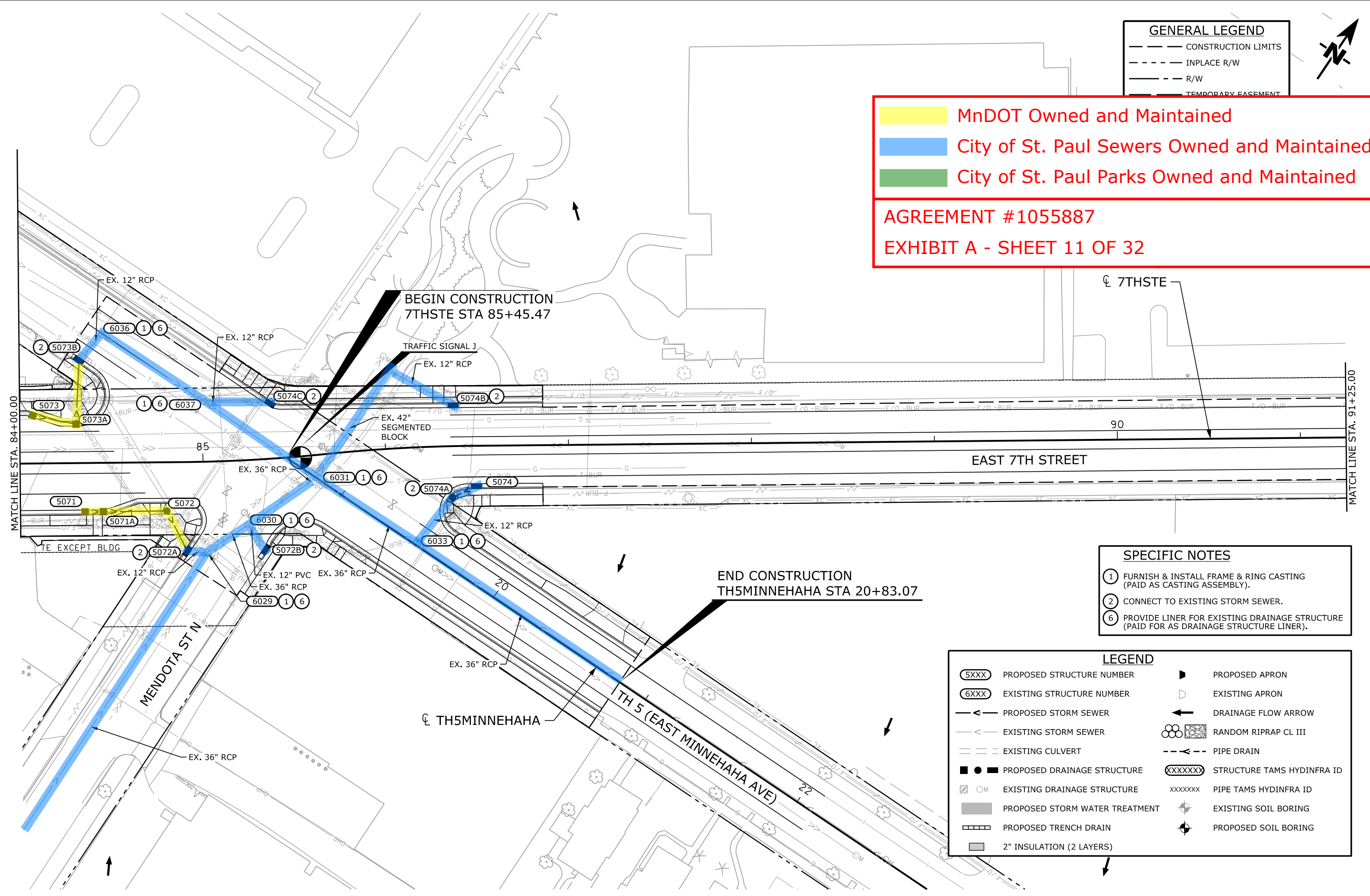
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 11 OF 32



SPECIFIC NOTES

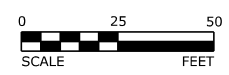
- FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
- CONNECT TO EXISTING STORM SEWER.
- PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	▾	EXISTING APRON
—◄—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
-◄-	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
---	EXISTING CULVERT	- - -	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◊	EXISTING DRAINAGE STRUCTURE	xxxxxx	PIPE TAMS HYDINFRA ID
▨	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▤	PROPOSED TRENCH DRAIN	⊙	PROPOSED SOIL BORING
▨	2" INSULATION (2 LAYERS)		

MODEL: 11 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: c6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-009+6\Road_Design\Streets\c6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:53 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLG



DRAINAGE PLAN

PLAN PAGE 11 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 549 OF 918



GENERAL LEGEND

- CONSTRUCTION LIMITS
- - - INPLACE R/W

GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR

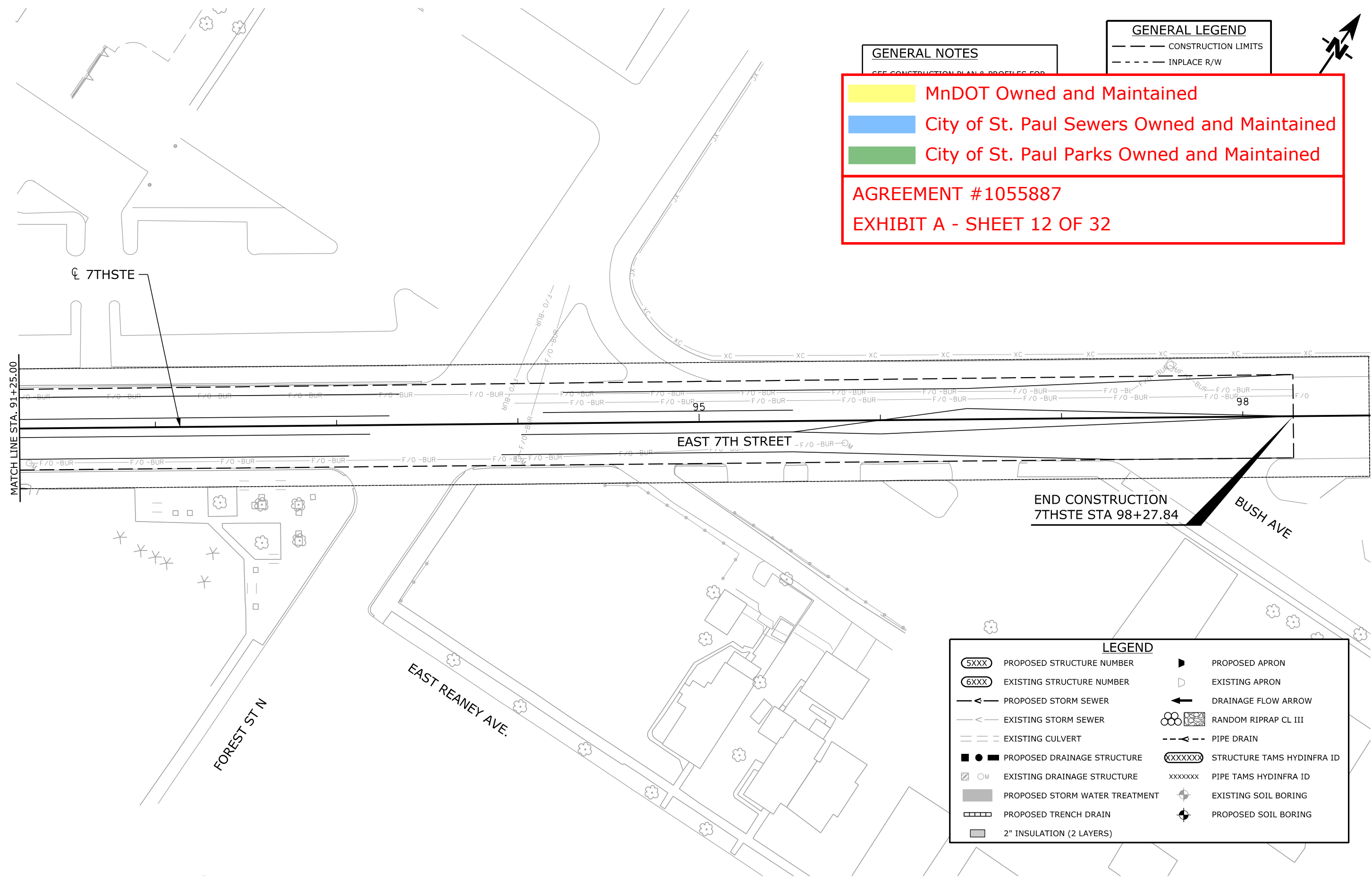
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 12 OF 32



END CONSTRUCTION
7THSTE STA 98+27.84

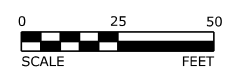
BUSH AVE

LEGEND

- (5XXX) PROPOSED STRUCTURE NUMBER
- (6XXX) EXISTING STRUCTURE NUMBER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING CULVERT
- PROPOSED DRAINAGE STRUCTURE
- OM EXISTING DRAINAGE STRUCTURE
- PROPOSED STORM WATER TREATMENT
- ▤ PROPOSED TRENCH DRAIN
- 2" INSULATION (2 LAYERS)
- ▶ PROPOSED APRON
- ◁ EXISTING APRON
- ← DRAINAGE FLOW ARROW
- RANDOM RIPRAP CL III
- PIPE DRAIN
- XXXXXX STRUCTURE TAMS HYDINFRA ID
- xxxxxxx PIPE TAMS HYDINFRA ID
- ⊕ EXISTING SOIL BORING
- ⊕ PROPOSED SOIL BORING

MODEL: 12 - Drainage Plan
 USER: ssschwilger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-009+46\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:54 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLG



DRAINAGE PLAN

PLAN PAGE 12 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET
 550
 OF
 918

MODEL: 13 - Drainage Plan

USER: ssschwieger
PEN TABLE: cdf6221107_planset.tbl
FILE: S:\PROJECTS\TRANS\WinDOT\1-09+46\Road_Design\Sheets\cdf6221107_dr.dgn

PLOT DRIVER: pdf_bw_11x17only.pltcfq
PLOT DATE: 7/18/2024 12:18:55 PM

MnDOT Owned and Maintained
 City of St. Paul Sewers Owned and Maintained
 City of St. Paul Parks Owned and Maintained

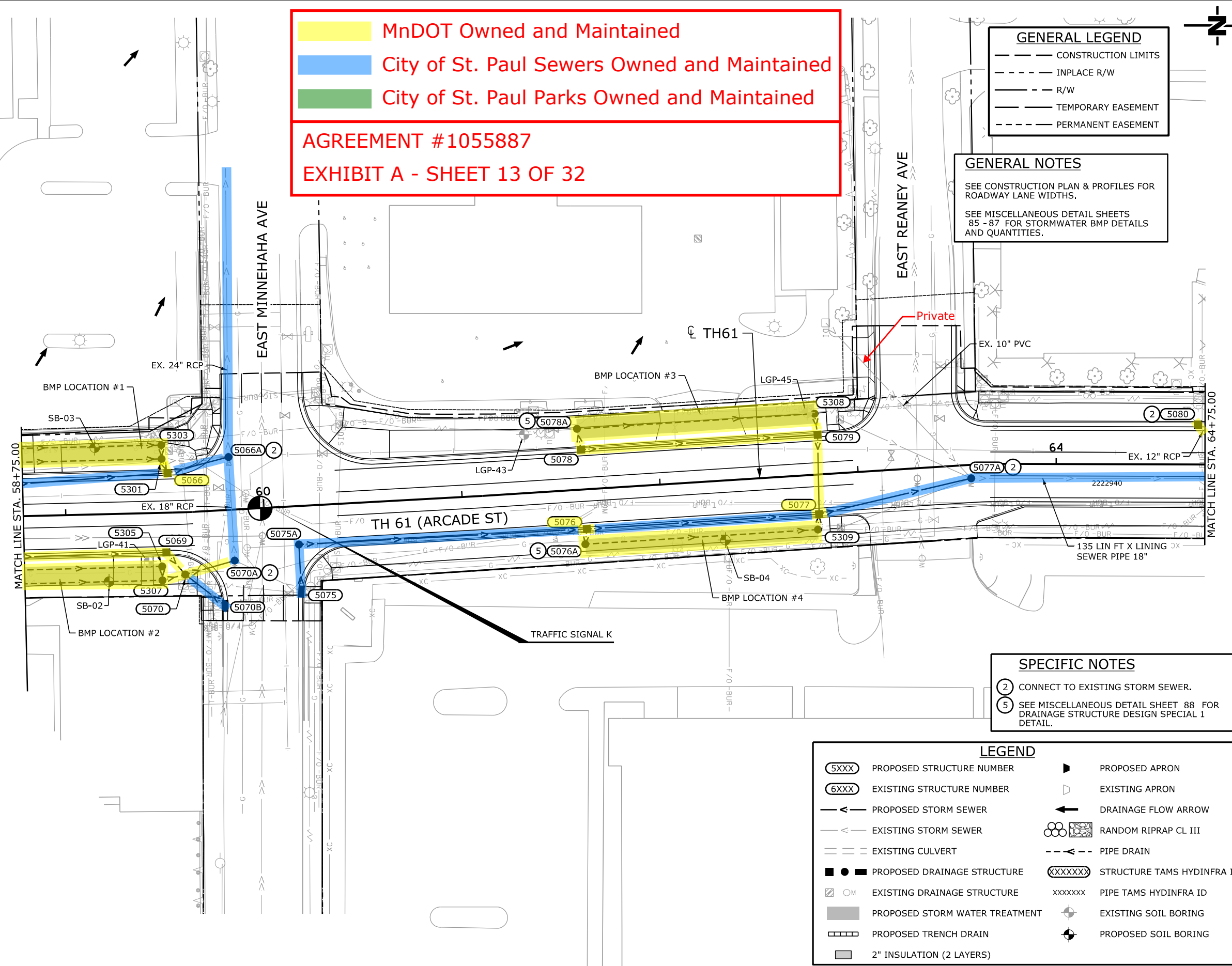
AGREEMENT #1055887
 EXHIBIT A - SHEET 13 OF 32

GENERAL LEGEND	
---	CONSTRUCTION LIMITS
---	INPLACE R/W
---	R/W
---	TEMPORARY EASEMENT
---	PERMANENT EASEMENT

GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.

SEE MISCELLANEOUS DETAIL SHEETS 85 - 87 FOR STORMWATER BMP DETAILS AND QUANTITIES.



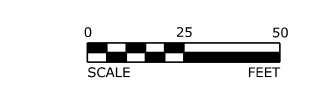
SPECIFIC NOTES

② CONNECT TO EXISTING STORM SEWER.

⑤ SEE MISCELLANEOUS DETAIL SHEET 88 FOR DRAINAGE STRUCTURE DESIGN SPECIAL 1 DETAIL.

LEGEND			
(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◻	EXISTING APRON
—◀—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
---	EXISTING CULVERT	---	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◻	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ

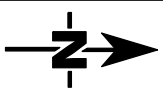


DRAINAGE PLAN

PLAN PAGE 13 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 551 OF 918

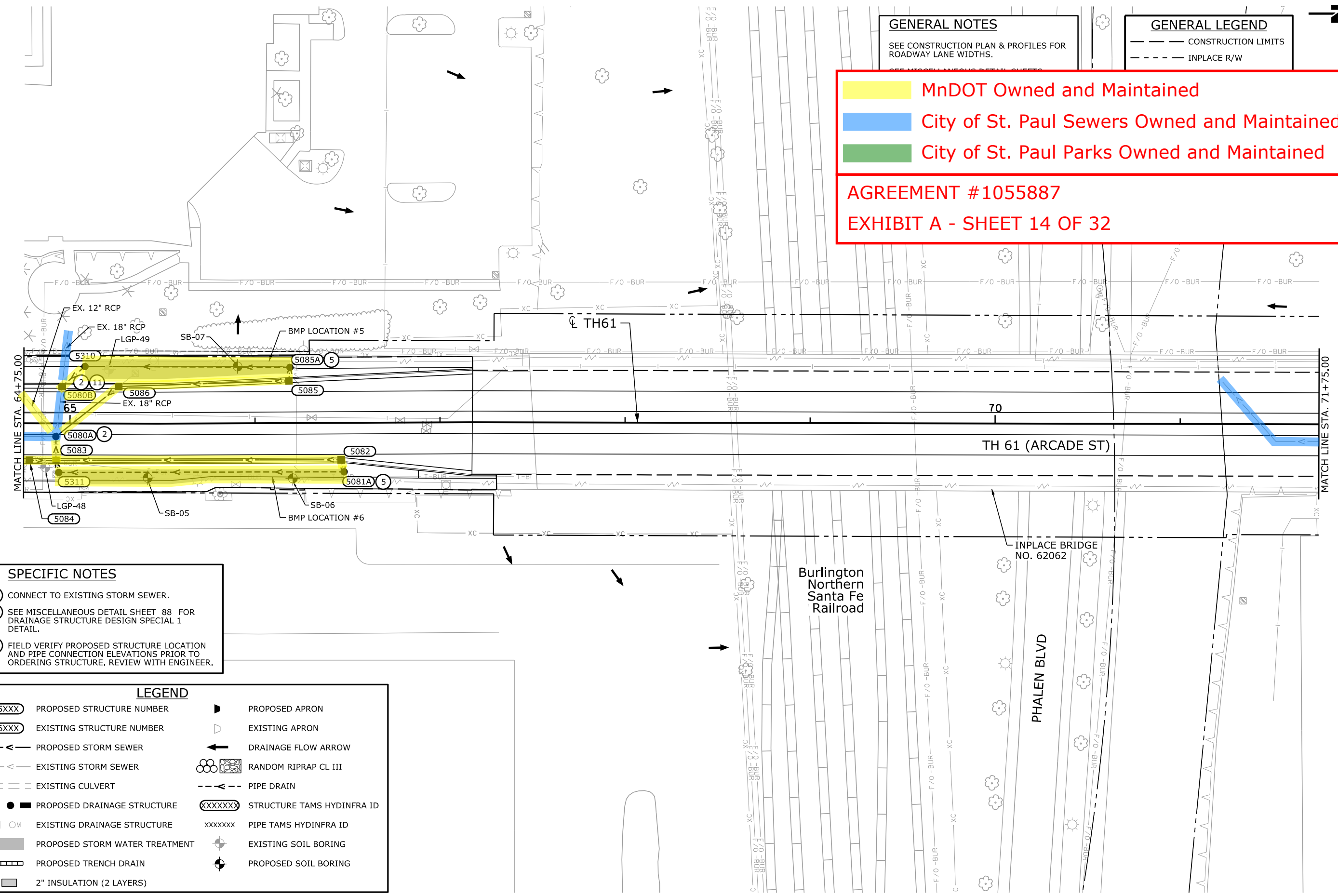


GENERAL NOTES
SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.

GENERAL LEGEND
--- CONSTRUCTION LIMITS
--- INPLACE R/W

MnDOT Owned and Maintained
City of St. Paul Sewers Owned and Maintained
City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
EXHIBIT A - SHEET 14 OF 32



SPECIFIC NOTES

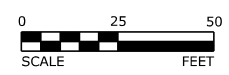
- ② CONNECT TO EXISTING STORM SEWER.
- ⑤ SEE MISCELLANEOUS DETAIL SHEET 88 FOR DRAINAGE STRUCTURE DESIGN SPECIAL 1 DETAIL.
- ⑪ FIELD VERIFY PROPOSED STRUCTURE LOCATION AND PIPE CONNECTION ELEVATIONS PRIOR TO ORDERING STRUCTURE. REVIEW WITH ENGINEER.

LEGEND

(5XXX) PROPOSED STRUCTURE NUMBER	▶ PROPOSED APRON
(6XXX) EXISTING STRUCTURE NUMBER	◁ EXISTING APRON
—▲— PROPOSED STORM SEWER	← DRAINAGE FLOW ARROW
—◁— EXISTING STORM SEWER	○○○○ RANDOM RIPRAP CL III
--- EXISTING CULVERT	- - - PIPE DRAIN
■ ● PROPOSED DRAINAGE STRUCTURE	XXXXXX STRUCTURE TAMS HYDINFRA ID
◊ ○ M EXISTING DRAINAGE STRUCTURE	xxxxxxx PIPE TAMS HYDINFRA ID
■ PROPOSED STORM WATER TREATMENT	⊕ EXISTING SOIL BORING
▬ PROPOSED TRENCH DRAIN	⊕ PROPOSED SOIL BORING
■ 2" INSULATION (2 LAYERS)	

MODEL: 14 - Drainage Plan
 USER: ssschwiegler
 PEN TABLE: c6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\1-09+46\Road_Design\Sheets\c6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:55 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLG

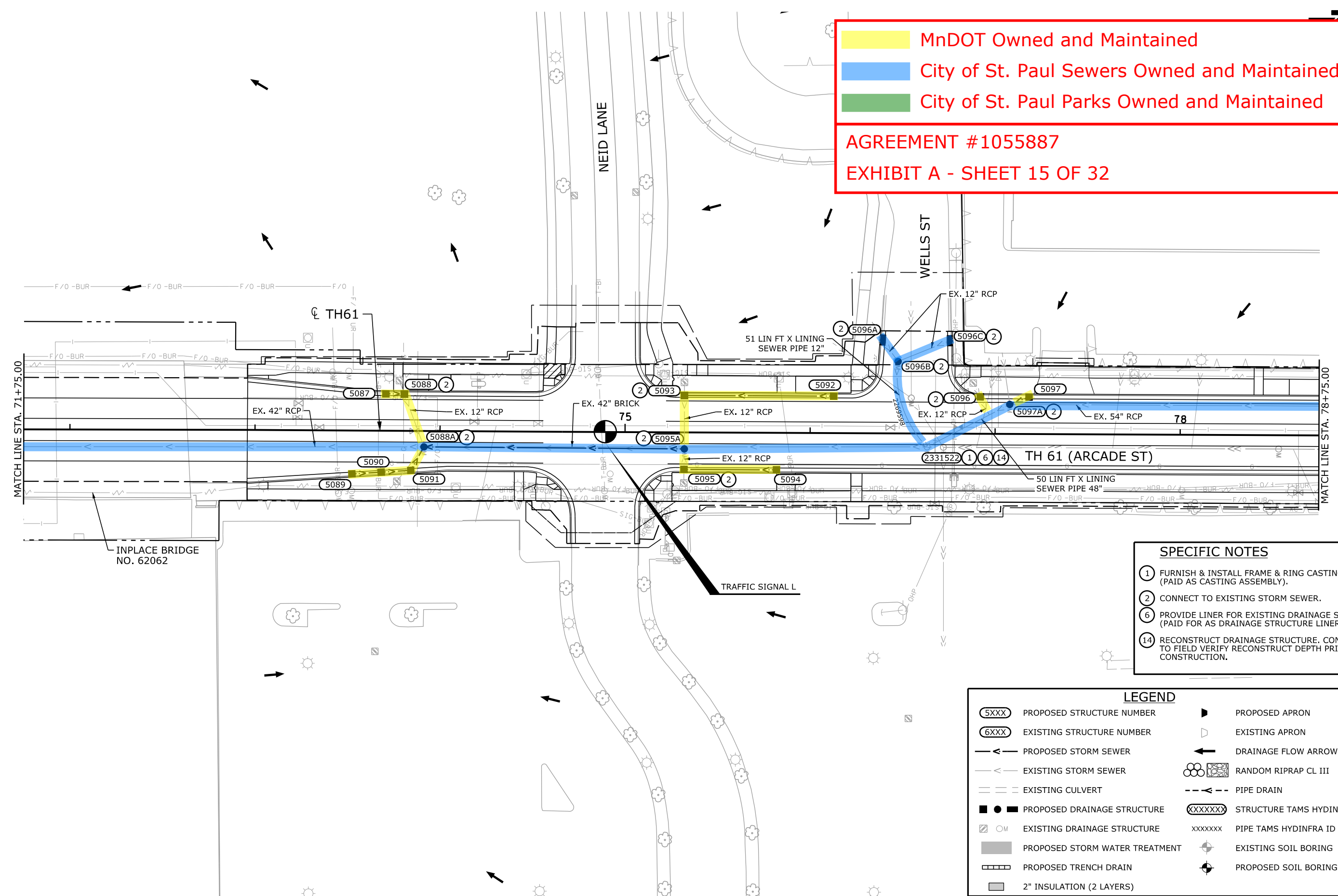


DRAINAGE PLAN
 PLAN PAGE 14 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET
 552
 OF
 918

MnDOT Owned and Maintained
 City of St. Paul Sewers Owned and Maintained
 City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
 EXHIBIT A - SHEET 15 OF 32



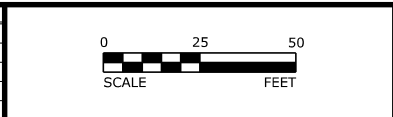
- SPECIFIC NOTES**
- 1 FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - 2 CONNECT TO EXISTING STORM SEWER.
 - 6 PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).
 - 14 RECONSTRUCT DRAINAGE STRUCTURE. CONTRACTOR TO FIELD VERIFY RECONSTRUCT DEPTH PRIOR TO CONSTRUCTION.

LEGEND

(SXXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
—◁—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -◁ - - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -◁ - - -	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	(XXXXXX)	STRUCTURE TAMS HYDINFRA ID
◊ ○ M	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬▬▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
▭	2" INSULATION (2 LAYERS)		

MODEL: 15 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: c:\6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\1-09+46\Road_Design\Sheets\c6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:56 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

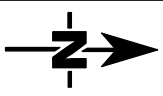
Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



DRAINAGE PLAN
 PLAN PAGE 15 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET
 553
 OF
 918



GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.
SEE MISCELLANEOUS DETAIL SHEETS

GENERAL LEGEND

--- CONSTRUCTION LIMITS
- - - INPLACE R/W
--- R/W

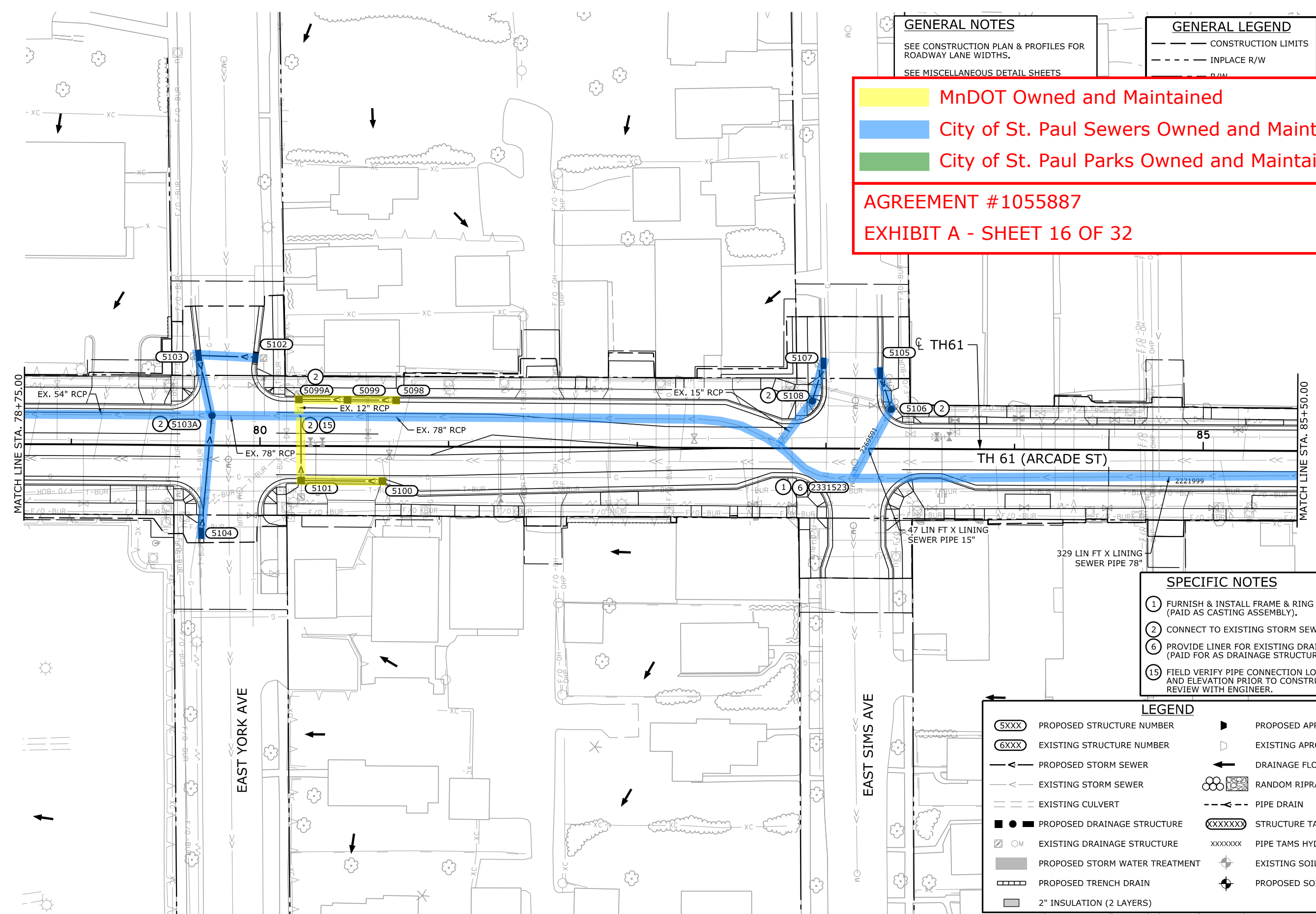
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 16 OF 32



SPECIFIC NOTES

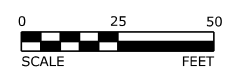
- 1 FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
- 2 CONNECT TO EXISTING STORM SEWER.
- 6 PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).
- 15 FIELD VERIFY PIPE CONNECTION LOCATION AND ELEVATION PRIOR TO CONSTRUCTION. REVIEW WITH ENGINEER.

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▀	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
—▲—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◊	EXISTING DRAINAGE STRUCTURE	xxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 16 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-009+46\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:56 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

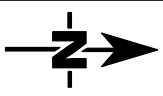
JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
DRAWN SRS
CHECKED JLG



DRAINAGE PLAN
 PLAN PAGE 16 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 554 OF 918



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
- - -	INPLACE R/W

GENERAL NOTES
SEE CONSTRUCTION PLAN & PROFILES FOR

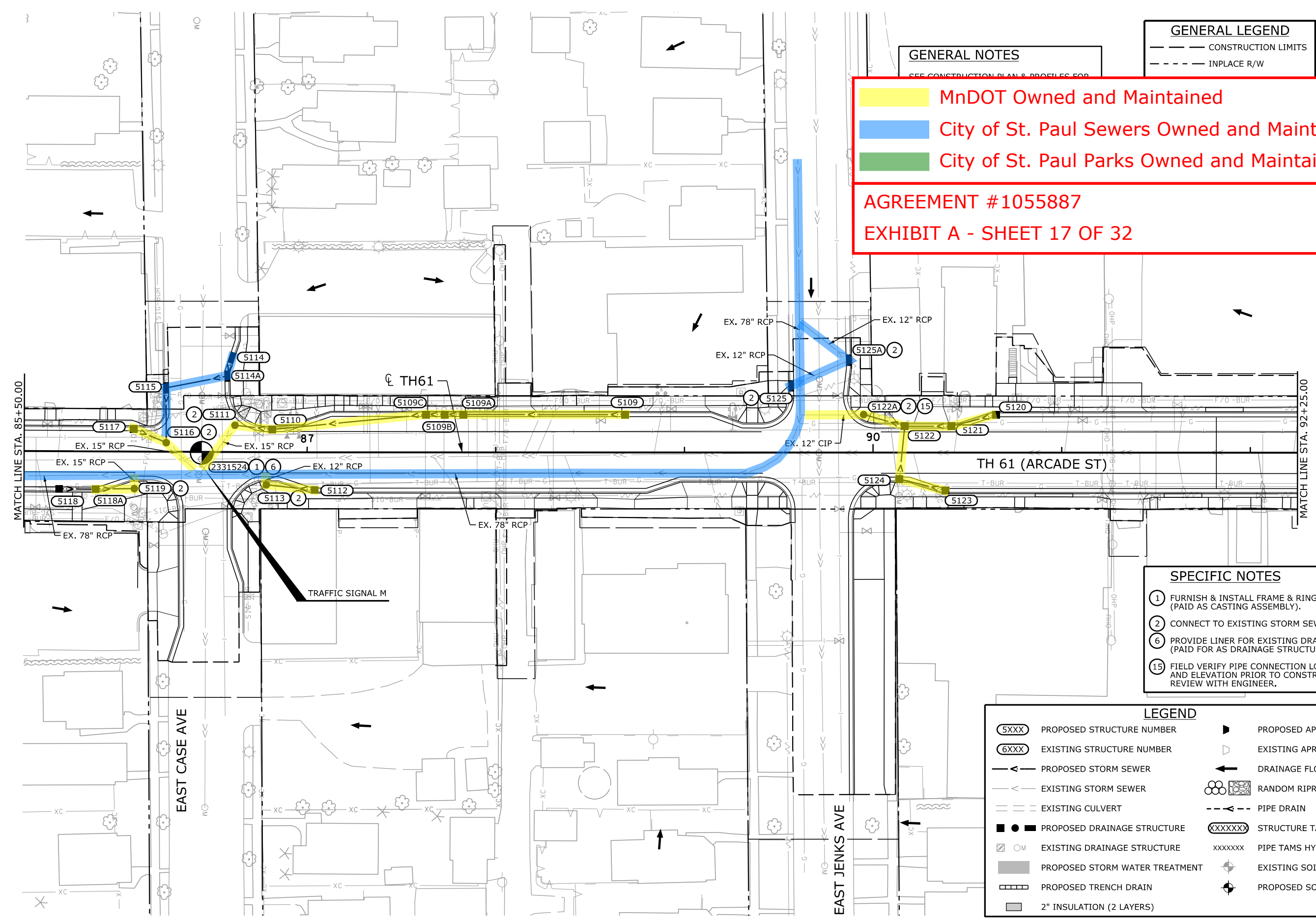
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 17 OF 32

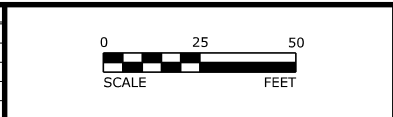


SPECIFIC NOTES	
①	FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
②	CONNECT TO EXISTING STORM SEWER.
⑥	PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).
⑮	FIELD VERIFY PIPE CONNECTION LOCATION AND ELEVATION PRIOR TO CONSTRUCTION. REVIEW WITH ENGINEER.

LEGEND			
5XXX	PROPOSED STRUCTURE NUMBER	▲	PROPOSED APRON
6XXX	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◊	EXISTING DRAINAGE STRUCTURE	xxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊙	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 17 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107.planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\17-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:18:57 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

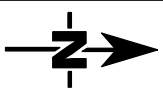
Jessica Griffin

JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
DRAWN SRS
CHECKED JLG



DRAINAGE PLAN	
PLAN PAGE 17 of 32	SHEET 555 OF 918
SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023	

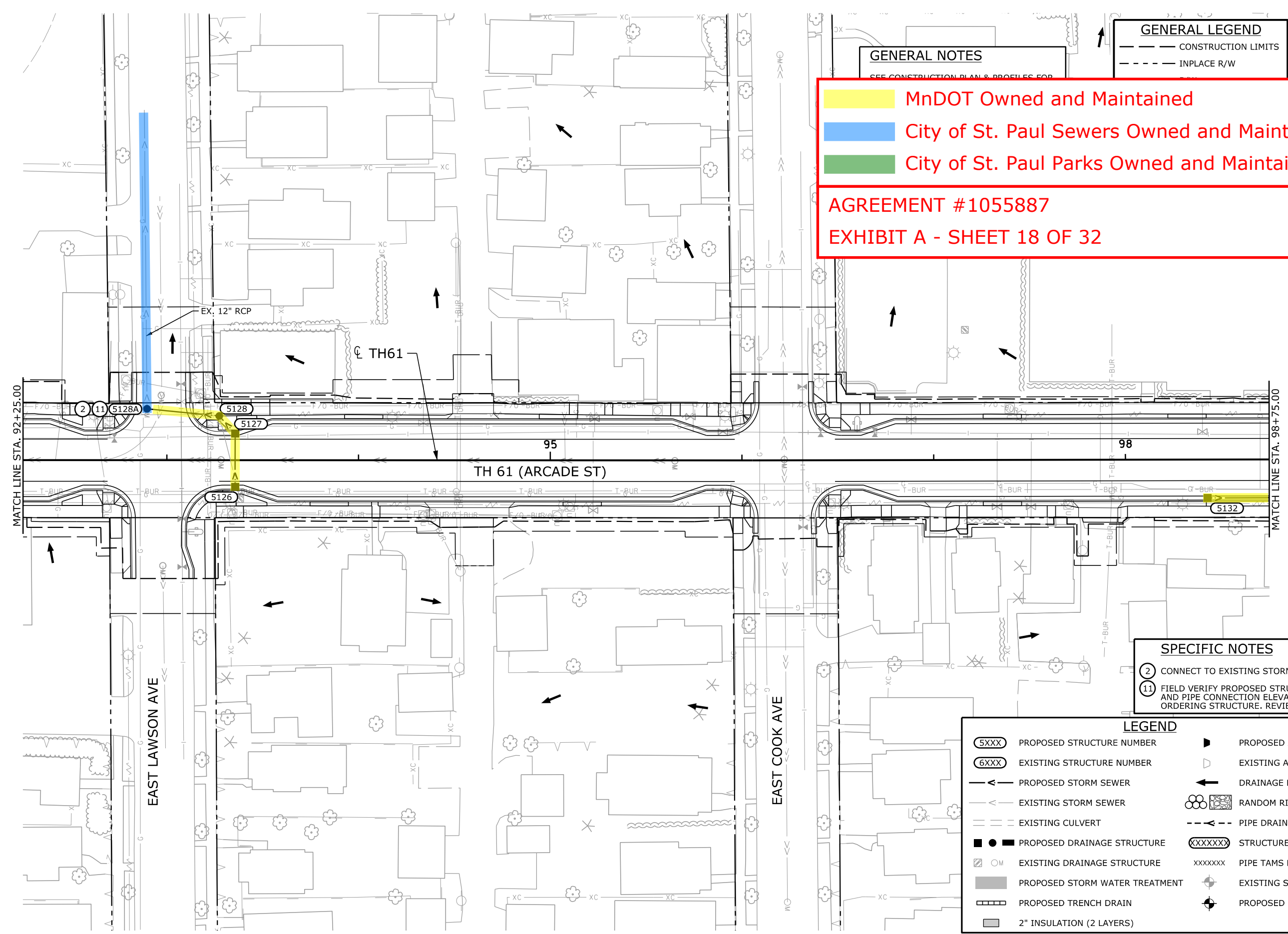


GENERAL LEGEND	
	CONSTRUCTION LIMITS
	INPLACE R/W

GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR

- MnDOT Owned and Maintained
 - City of St. Paul Sewers Owned and Maintained
 - City of St. Paul Parks Owned and Maintained
- AGREEMENT #1055887**
EXHIBIT A - SHEET 18 OF 32



SPECIFIC NOTES	
(2)	CONNECT TO EXISTING STORM SEWER.
(11)	FIELD VERIFY PROPOSED STRUCTURE LOCATION AND PIPE CONNECTION ELEVATIONS PRIOR TO ORDERING STRUCTURE. REVIEW WITH ENGINEER.

LEGEND			
	PROPOSED STRUCTURE NUMBER		PROPOSED APRON
	EXISTING STRUCTURE NUMBER		EXISTING APRON
	PROPOSED STORM SEWER		DRAINAGE FLOW ARROW
	EXISTING STORM SEWER		RANDOM RIPRAP CL III
	EXISTING CULVERT		PIPE DRAIN
	PROPOSED DRAINAGE STRUCTURE		STRUCTURE TAMS HYDINFRA ID
	EXISTING DRAINAGE STRUCTURE		PIPE TAMS HYDINFRA ID
	PROPOSED STORM WATER TREATMENT		EXISTING SOIL BORING
	PROPOSED TRENCH DRAIN		PROPOSED SOIL BORING
	2" INSULATION (2 LAYERS)		

MODEL: 18 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: c:\6221107\plansec.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheet\6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:57 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



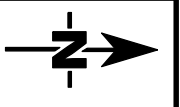
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



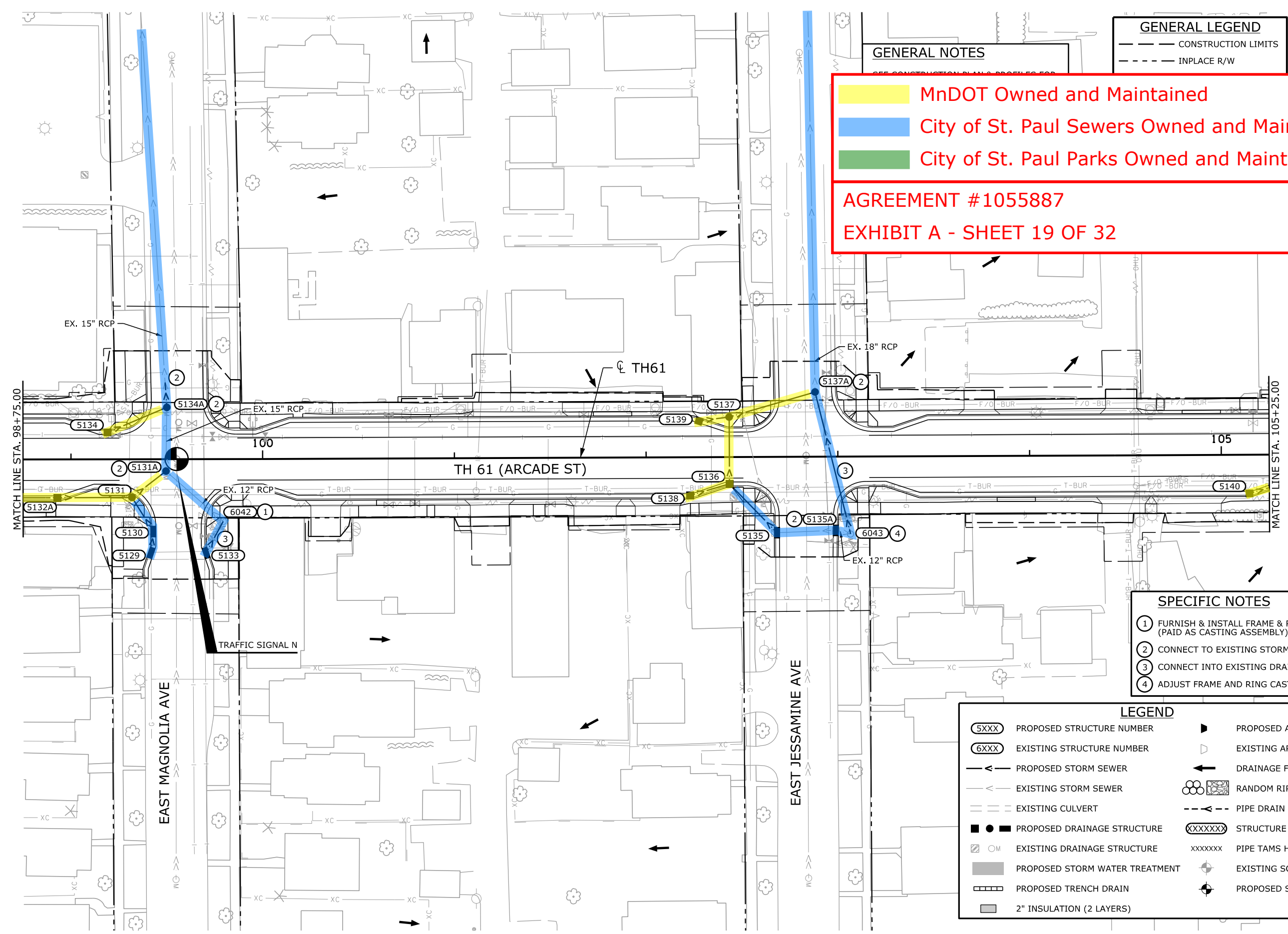
DRAINAGE PLAN	
PLAN PAGE 18 of 32	SHEET 556 OF 918
SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023	



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
- - -	INPLACE R/W

GENERAL NOTES

- MnDOT Owned and Maintained
 - City of St. Paul Sewers Owned and Maintained
 - City of St. Paul Parks Owned and Maintained
- AGREEMENT #1055887
EXHIBIT A - SHEET 19 OF 32



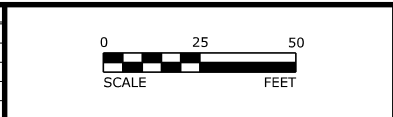
- ### SPECIFIC NOTES
- ① FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - ② CONNECT TO EXISTING STORM SEWER.
 - ③ CONNECT INTO EXISTING DRAINAGE STRUCTURE.
 - ④ ADJUST FRAME AND RING CASTING.

LEGEND

5XXX	PROPOSED STRUCTURE NUMBER		PROPOSED APRON
6XXX	EXISTING STRUCTURE NUMBER		EXISTING APRON
	PROPOSED STORM SEWER		DRAINAGE FLOW ARROW
	EXISTING STORM SEWER		RANDOM RIPRAP CL III
	EXISTING CULVERT		PIPE DRAIN
	PROPOSED DRAINAGE STRUCTURE		STRUCTURE TAMS HYDINFRA ID
	EXISTING DRAINAGE STRUCTURE		PIPE TAMS HYDINFRA ID
	PROPOSED STORM WATER TREATMENT		EXISTING SOIL BORING
	PROPOSED TRENCH DRAIN		PROPOSED SOIL BORING
	2" INSULATION (2 LAYERS)		

MODEL: 19 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_plantset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\1-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:58 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



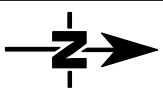
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ





GENERAL LEGEND	
---	CONSTRUCTION LIMITS
---	INPLACE R/W

GENERAL NOTES
SEE CONSTRUCTION PLAN & PROFILES FOR

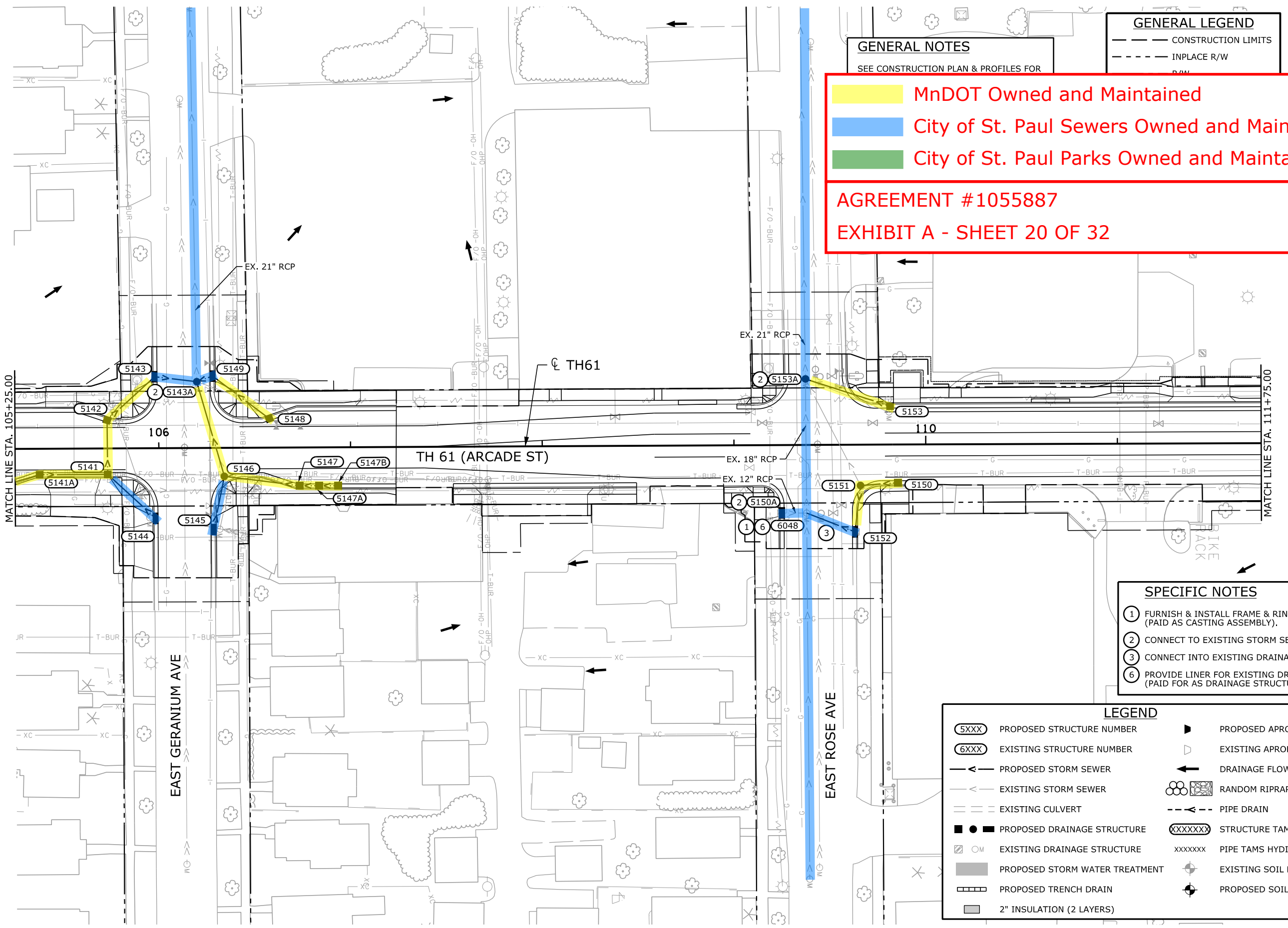
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 20 OF 32

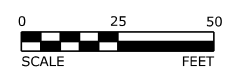


SPECIFIC NOTES	
①	FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
②	CONNECT TO EXISTING STORM SEWER.
③	CONNECT INTO EXISTING DRAINAGE STRUCTURE.
⑥	PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

LEGEND			
5XXX	PROPOSED STRUCTURE NUMBER	▶	PROPOSED APRON
6XXX	EXISTING STRUCTURE NUMBER	◀	EXISTING APRON
—▲—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
—◀—	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
---	EXISTING CULVERT	---	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◊	EXISTING DRAINAGE STRUCTURE	xxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▤	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 20 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: c:\6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\c6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:18:59 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

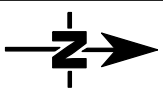
Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



DRAINAGE PLAN
 PLAN PAGE 20 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET
 558
 OF
 918



GENERAL LEGEND

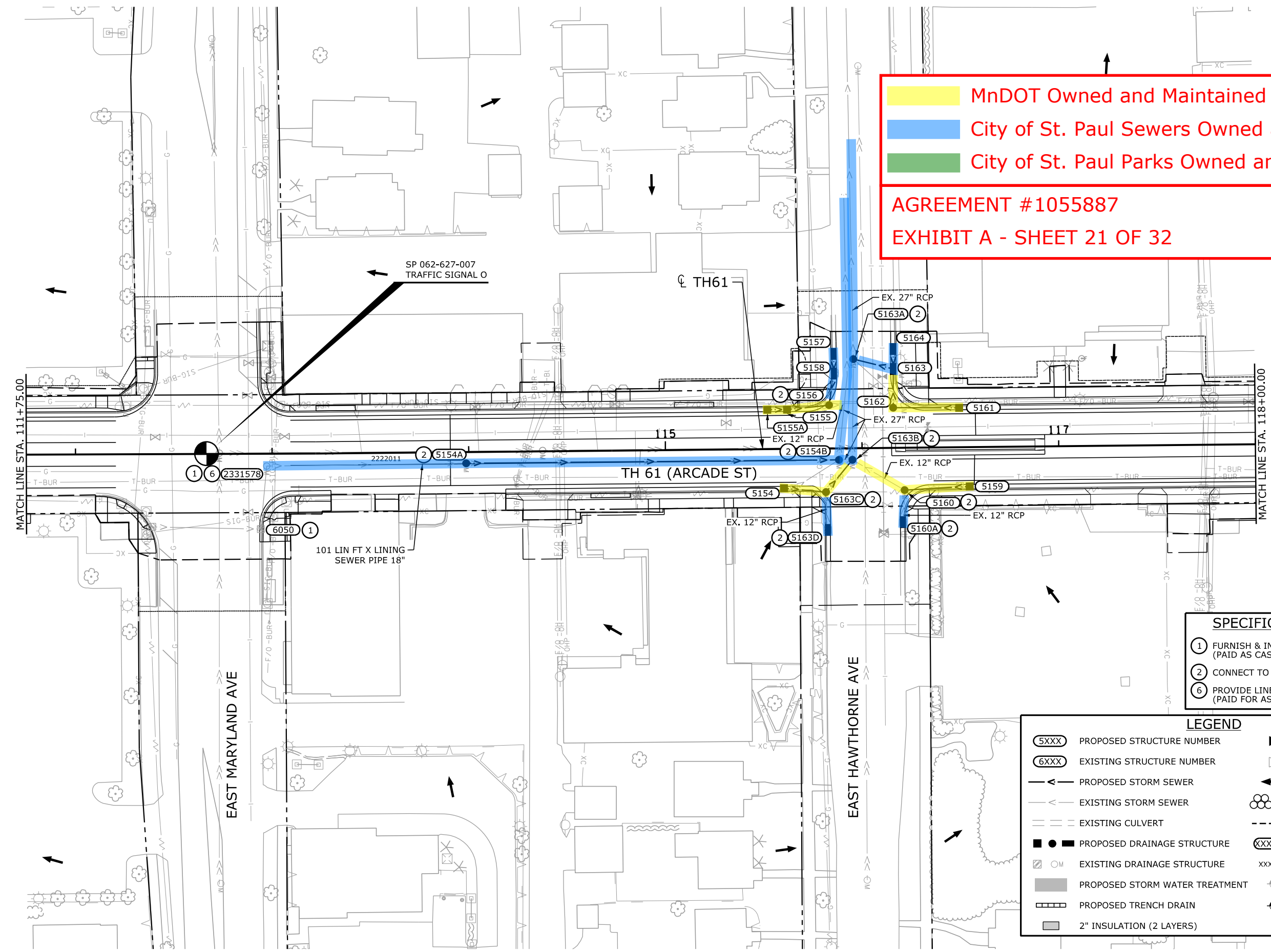
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 21 OF 32



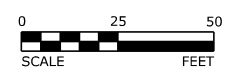
- SPECIFIC NOTES**
- ① FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - ② CONNECT TO EXISTING STORM SEWER.
 - ⑥ PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◻	EXISTING APRON
—▲—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -▲	PIPE DRAIN
■ ●	PROPOSED DRAINAGE STRUCTURE	XXXXXXX	STRUCTURE TAMS HYDINFRA ID
◻ ○	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 21 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:18:59 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ

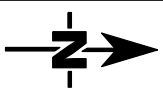


DRAINAGE PLAN

PLAN PAGE 21 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023

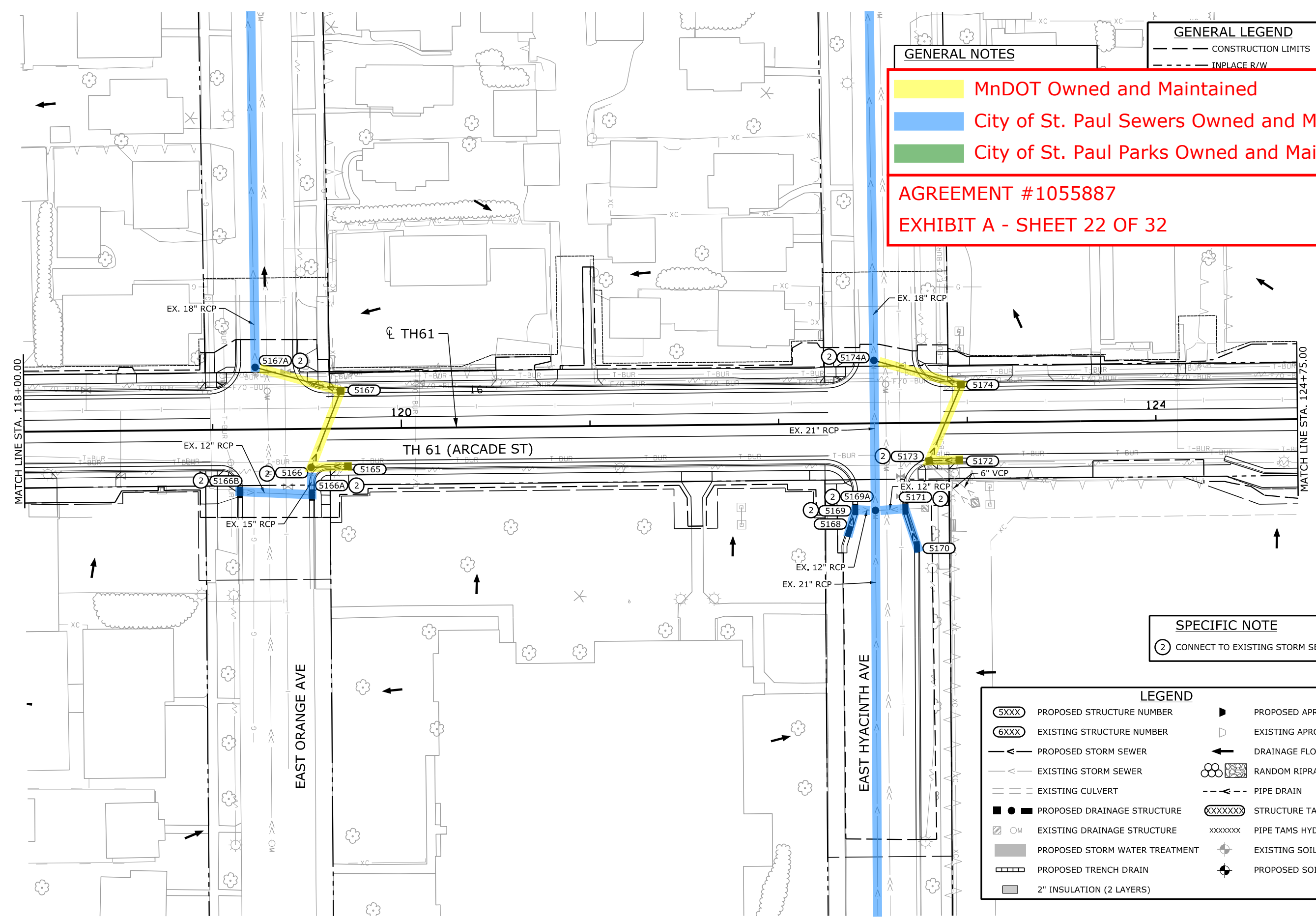
SHEET 559 OF 918



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
---	INPLACE R/W

GENERAL NOTES

- MnDOT Owned and Maintained
 - City of St. Paul Sewers Owned and Maintained
 - City of St. Paul Parks Owned and Maintained
- AGREEMENT #1055887
EXHIBIT A - SHEET 22 OF 32



SPECIFIC NOTE
 (2) CONNECT TO EXISTING STORM SEWER.

LEGEND			
(5XXX)	PROPOSED STRUCTURE NUMBER	▲	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◻	EXISTING APRON
—▲—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
—◻—	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
---	EXISTING CULVERT	---	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	(XXXXXX)	STRUCTURE TAMS HYDINFRA ID
◻	EXISTING DRAINAGE STRUCTURE	XXXXXX	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 22 - Drainage Plan
 USER: ssschwiegler
 PEN TABLE: cdf6221107.planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:19:00 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

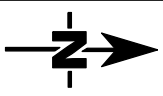
Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



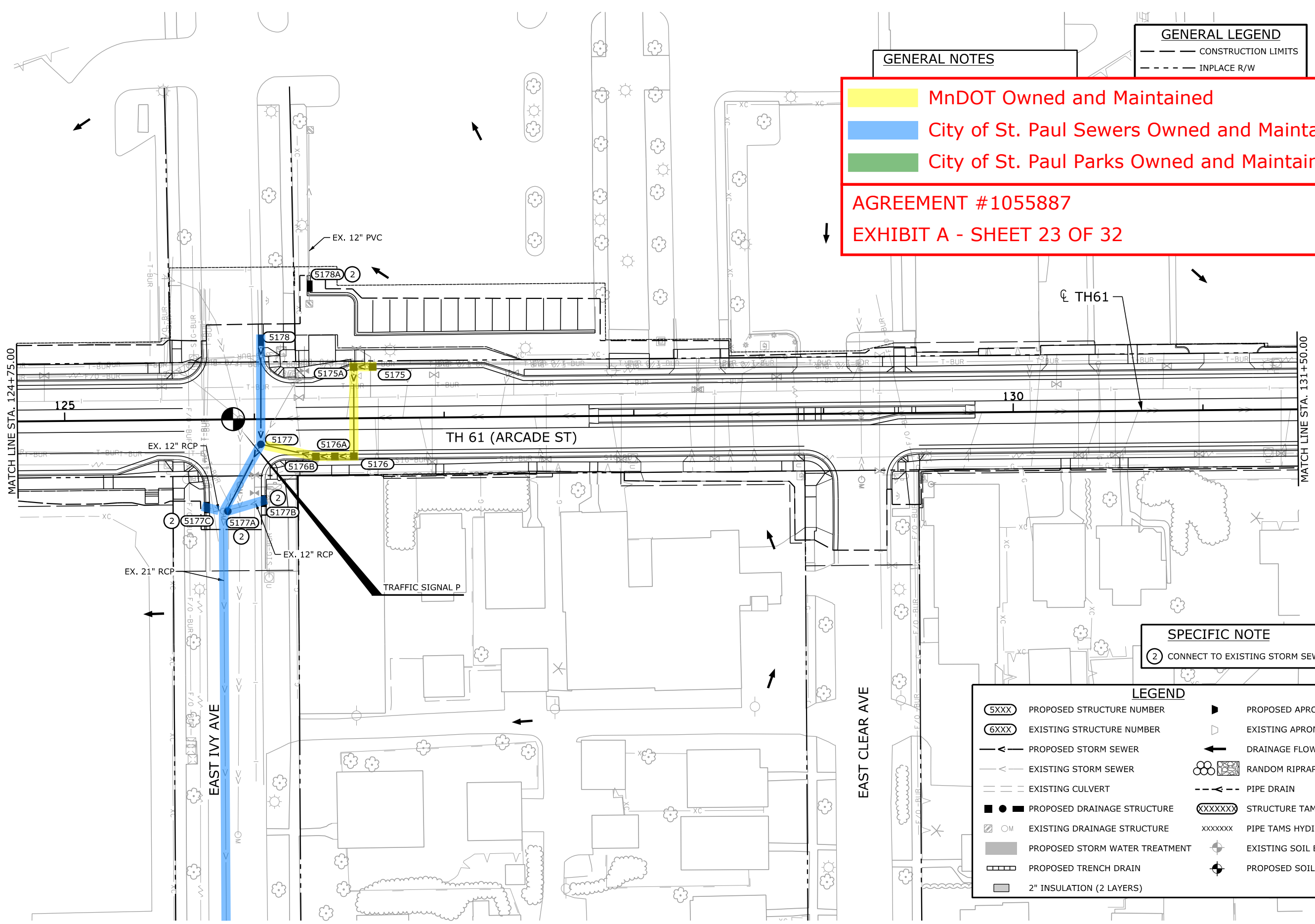
DRAINAGE PLAN	
PLAN PAGE 22 of 32	
SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023	
SHEET 560 OF 918	



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
---	INPLACE R/W

GENERAL NOTES

- MnDOT Owned and Maintained
 - City of St. Paul Sewers Owned and Maintained
 - City of St. Paul Parks Owned and Maintained
- AGREEMENT #1055887**
- EXHIBIT A - SHEET 23 OF 32**



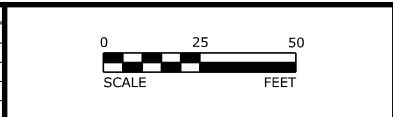
SPECIFIC NOTE

② CONNECT TO EXISTING STORM SEWER.

LEGEND			
5XXX	PROPOSED STRUCTURE NUMBER	▶	PROPOSED APRON
6XXX	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
—▲—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
—▲—	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
---	EXISTING CULVERT	---	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◻ ○ ◻	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▨	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 23 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:19:00 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ

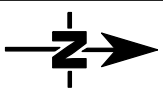


DRAINAGE PLAN

PLAN PAGE 23 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

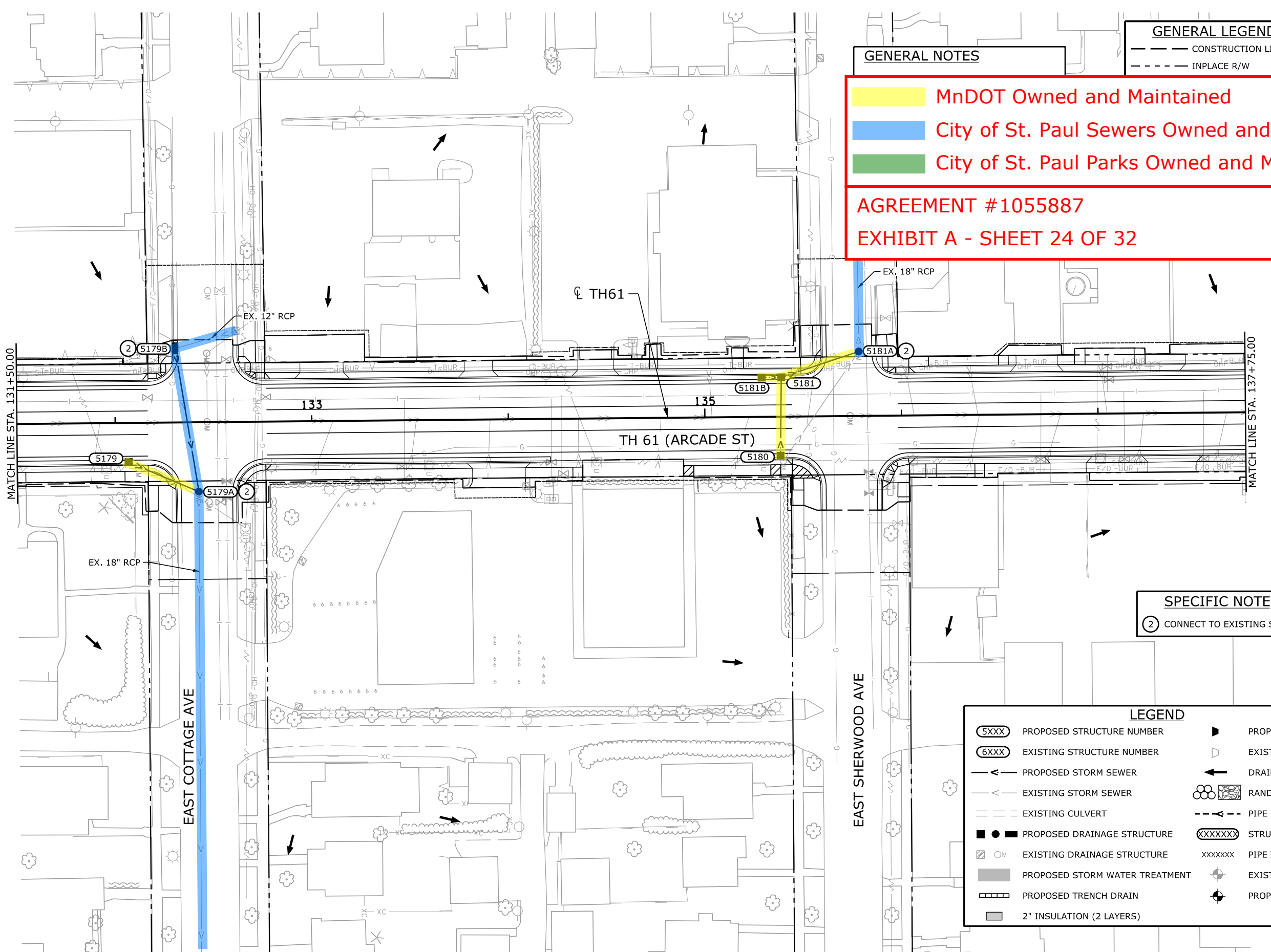
SHEET
561
 OF
918



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
---	INPLACE R/W

GENERAL NOTES

- MnDOT Owned and Maintained
 - City of St. Paul Sewers Owned and Maintained
 - City of St. Paul Parks Owned and Maintained
- AGREEMENT #1055887
- EXHIBIT A - SHEET 24 OF 32



SPECIFIC NOTE

② CONNECT TO EXISTING STORM SEWER.

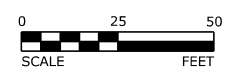
LEGEND			
(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◻	EXISTING APRON
—>	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
○	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 24 - Drainage Plan

USER: ssschwiegner
PEN TABLE: cdf6221107_planset.tbl
FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dr.dgn

PLOT DRIVER: pdf_bw_11x17only.pltcfq
PLOT DATE: 7/18/2024 12:19:01 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
DRAWN: SRS
CHECKED: JLJ



DRAINAGE PLAN

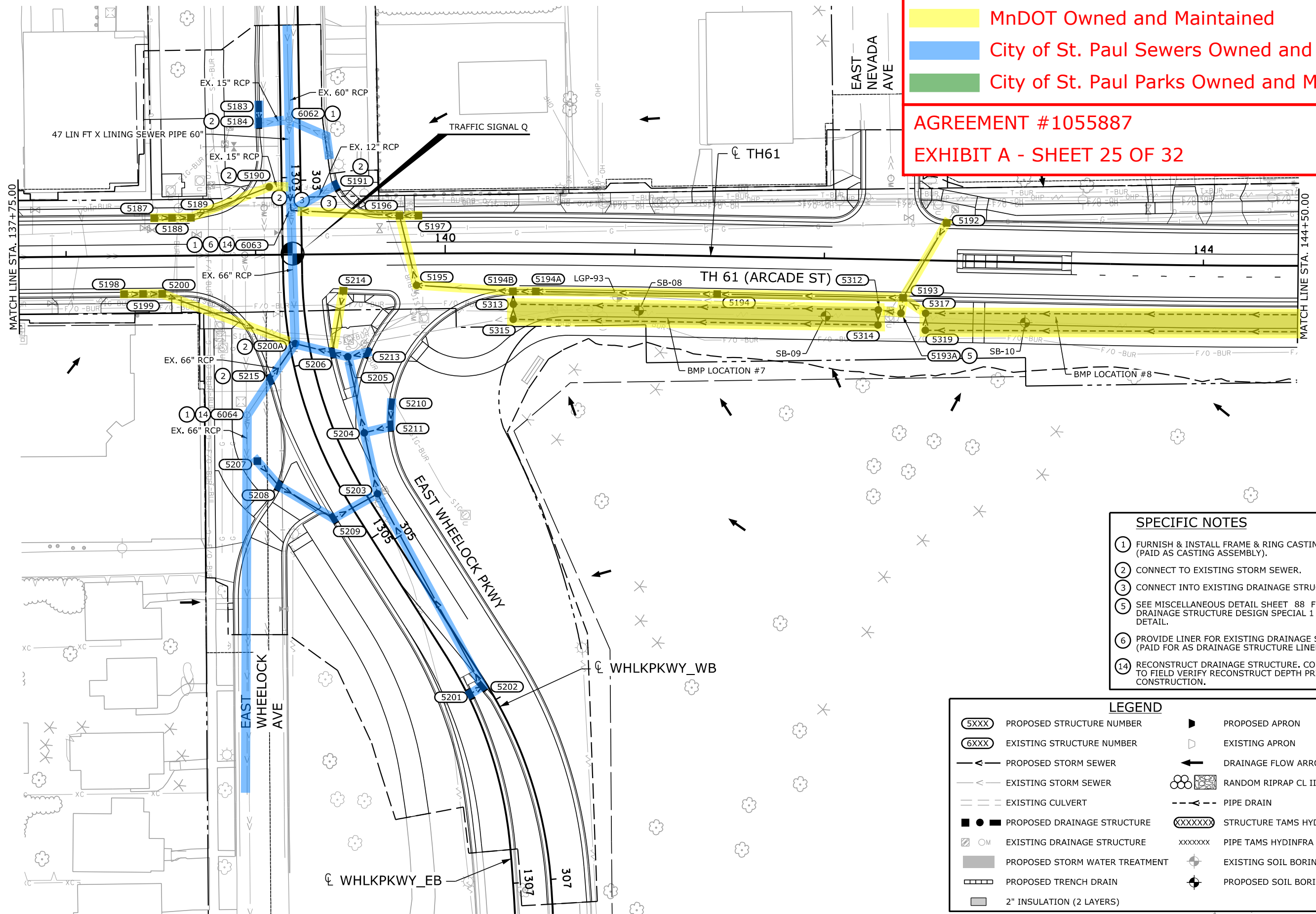
PLAN PAGE 24 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5),
SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET
562
OF
918

MnDOT Owned and Maintained
 City of St. Paul Sewers Owned and Maintained
 City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887
EXHIBIT A - SHEET 25 OF 32



- SPECIFIC NOTES**
- FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - CONNECT TO EXISTING STORM SEWER.
 - CONNECT INTO EXISTING DRAINAGE STRUCTURE.
 - SEE MISCELLANEOUS DETAIL SHEET 88 FOR DRAINAGE STRUCTURE DESIGN SPECIAL 1 DETAIL.
 - PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).
 - RECONSTRUCT DRAINAGE STRUCTURE. CONTRACTOR TO FIELD VERIFY RECONSTRUCT DEPTH PRIOR TO CONSTRUCTION.

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	▾	EXISTING APRON
—<—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
· · ·	EXISTING CULVERT	—>—	PIPE DRAIN
■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◻	EXISTING DRAINAGE STRUCTURE	xxxxxx	PIPE TAMS HYDINFRA ID
▨	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▩	PROPOSED TRENCH DRAIN	⊙	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 25 - Drainage Plan
 USER: ssschwilger
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\09-09-16\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:19:01 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

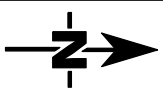
Jessica Griffin
 JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLG



DRAINAGE PLAN
 PLAN PAGE 25 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 563 OF 918



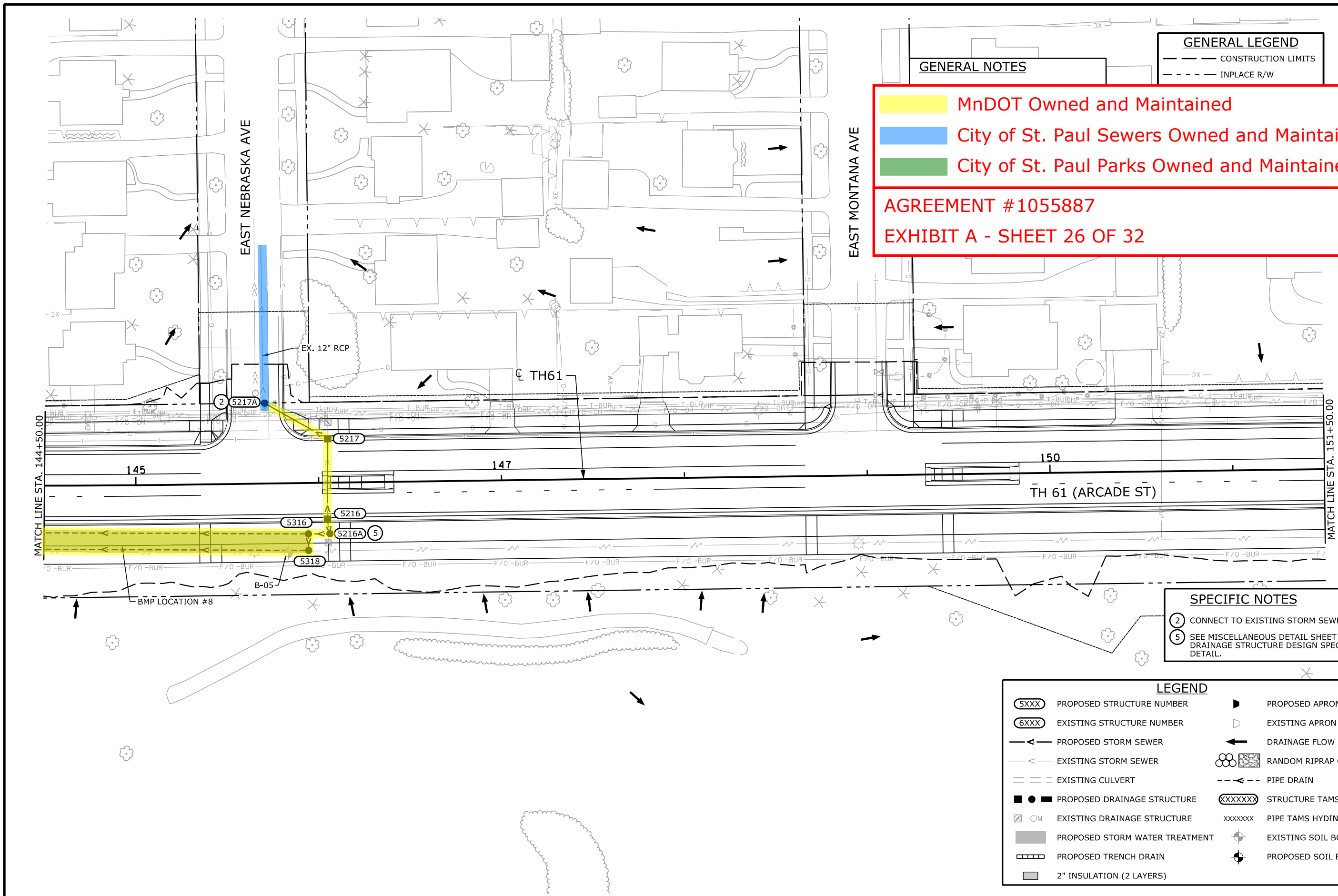
GENERAL LEGEND	
	CONSTRUCTION LIMITS
	INPLACE R/W

GENERAL NOTES

- MnDOT Owned and Maintained
 - City of St. Paul Sewers Owned and Maintained
 - City of St. Paul Parks Owned and Maintained
- AGREEMENT #1055887**
EXHIBIT A - SHEET 26 OF 32

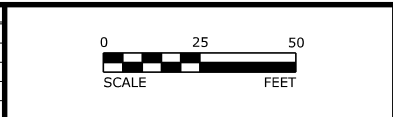
SPECIFIC NOTES	
	CONNECT TO EXISTING STORM SEWER.
	SEE MISCELLANEOUS DETAIL SHEET 88 FOR DRAINAGE STRUCTURE DESIGN SPECIAL 1 DETAIL.

LEGEND			
	PROPOSED STRUCTURE NUMBER		PROPOSED APRON
	EXISTING STRUCTURE NUMBER		EXISTING APRON
	PROPOSED STORM SEWER		DRAINAGE FLOW ARROW
	EXISTING STORM SEWER		RANDOM RIPRAP CL III
	EXISTING CULVERT		PIPE DRAIN
	PROPOSED DRAINAGE STRUCTURE		STRUCTURE TAMS HYDINFRA ID
	EXISTING DRAINAGE STRUCTURE		PIPE TAMS HYDINFRA ID
	PROPOSED STORM WATER TREATMENT		EXISTING SOIL BORING
	PROPOSED TRENCH DRAIN		PROPOSED SOIL BORING
	2" INSULATION (2 LAYERS)		



MODEL: 26 - Drainage Plan
 USER: ssschwiegler
 PEN TABLE: c:\6221107\plan\set.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:19:02 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

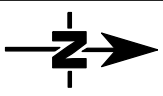
Jessica Griffin
 NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



DRAINAGE PLAN
 PLAN PAGE 26 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET
564
 OF
918



GENERAL LEGEND	
	CONSTRUCTION LIMITS
	INPLACE R/W
	R/W

GENERAL NOTES
SEE CONSTRUCTION PLAN & PROFILES FOR

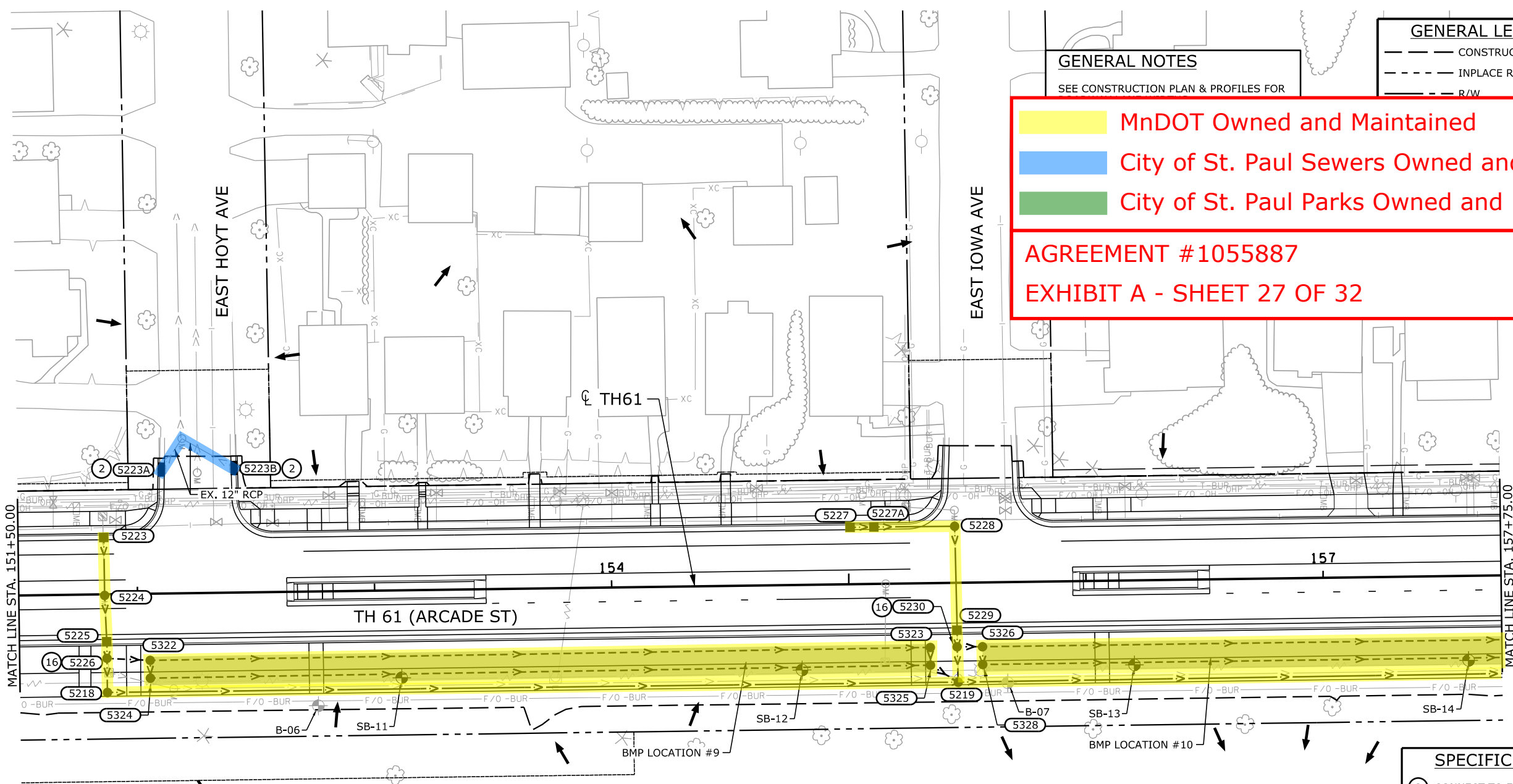
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 27 OF 32



SPECIFIC NOTES

(2) CONNECT TO EXISTING STORM SEWER.

(16) SEE MISCELLANEOUS DETAIL SHEET 89 FOR DRAINAGE STRUCTURE DESIGN SPECIAL 2 DETAIL.

LEGEND			
	PROPOSED STRUCTURE NUMBER		PROPOSED APRON
	EXISTING STRUCTURE NUMBER		EXISTING APRON
	PROPOSED STORM SEWER		DRAINAGE FLOW ARROW
	EXISTING STORM SEWER		RANDOM RIPRAP CL III
	EXISTING CULVERT		PIPE DRAIN
	PROPOSED DRAINAGE STRUCTURE		STRUCTURE TAMS HYDINFRA ID
	EXISTING DRAINAGE STRUCTURE		PIPE TAMS HYDINFRA ID
	PROPOSED STORM WATER TREATMENT		EXISTING SOIL BORING
	PROPOSED TRENCH DRAIN		PROPOSED SOIL BORING
	2" INSULATION (2 LAYERS)		

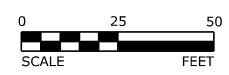
MODEL: 27 - Drainage Plan

USER: ssschwieger

PEN TABLE: cdf6221107.plantset.tbl

PLOT DRIVER: pdf_bw_11x17only.pltcfq

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
DRAWN: SRS
CHECKED: JLG

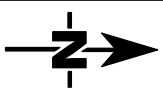


DRAINAGE PLAN

PLAN PAGE 27 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 565 OF 918



GENERAL LEGEND	
	CONSTRUCTION LIMITS
	INPLACE R/W

GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR

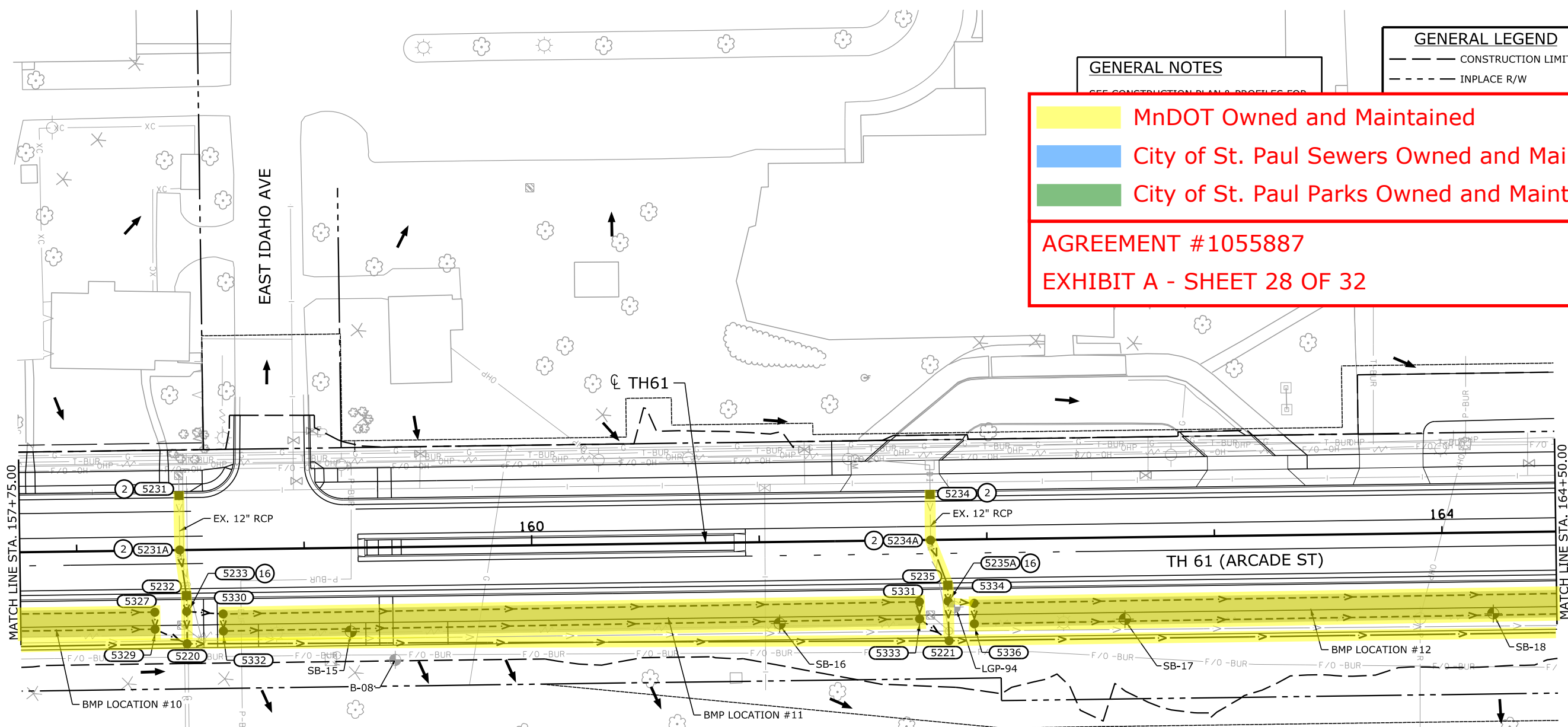
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 28 OF 32

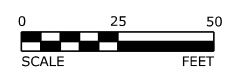


SPECIFIC NOTES	
(2)	CONNECT TO EXISTING STORM SEWER.
(16)	SEE MISCELLANEOUS DETAIL SHEET 89 FOR DRAINAGE STRUCTURE DESIGN SPECIAL 2 DETAIL.

LEGEND			
	PROPOSED STRUCTURE NUMBER		PROPOSED APRON
	EXISTING STRUCTURE NUMBER		EXISTING APRON
	PROPOSED STORM SEWER		DRAINAGE FLOW ARROW
	EXISTING STORM SEWER		RANDOM RIPRAP CL III
	EXISTING CULVERT		PIPE DRAIN
	PROPOSED DRAINAGE STRUCTURE		STRUCTURE TAMS HYDINFRA ID
	EXISTING DRAINAGE STRUCTURE		PIPE TAMS HYDINFRA ID
	PROPOSED STORM WATER TREATMENT		EXISTING SOIL BORING
	PROPOSED TRENCH DRAIN		PROPOSED SOIL BORING
	2\"/>		

MODEL: 28 - Drainage Plan
 USER: ssschwieger
 PEN TABLE: cdf6221107.plantset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cdf6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:19:03 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

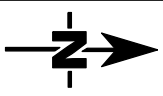
Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ



DRAINAGE PLAN	
PLAN PAGE 28 of 32	SHEET 566 OF 918
SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023	



GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.

SEE MISCELLANEOUS DETAIL SHEETS 85 - 87 FOR STORMWATER BMP DETAILS AND QUANTITIES.

GENERAL LEGEND

--- CONSTRUCTION LIMITS
 - - - INPLACE R/W
 --- R/W
 --- TEMPORARY EASEMENT
 - - - PERMANENT EASEMENT

SPECIFIC NOTES

- 1 FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
- 2 CONNECT TO EXISTING STORM SEWER.
- 3 CONNECT INTO EXISTING DRAINAGE STRUCTURE.
- 4 ADJUST FRAME AND RING CASTING.
- 6 PROVIDE LINER FOR EXISTING DRAINAGE STRUCTURE (PAID FOR AS DRAINAGE STRUCTURE LINER).
- 14 RECONSTRUCT DRAINAGE STRUCTURE. CONTACT TO FIELD VERIFY RECONSTRUCT DEPTH PRIOR TO CONSTRUCTION.
- 17 REPAIR DRAINAGE STRUCTURE.

LEGEND

(5XXX) PROPOSED STRUCTURE NUMBER
 (6XXX) EXISTING STRUCTURE NUMBER

▶ PROPOSED APRON
 ▽ EXISTING APRON

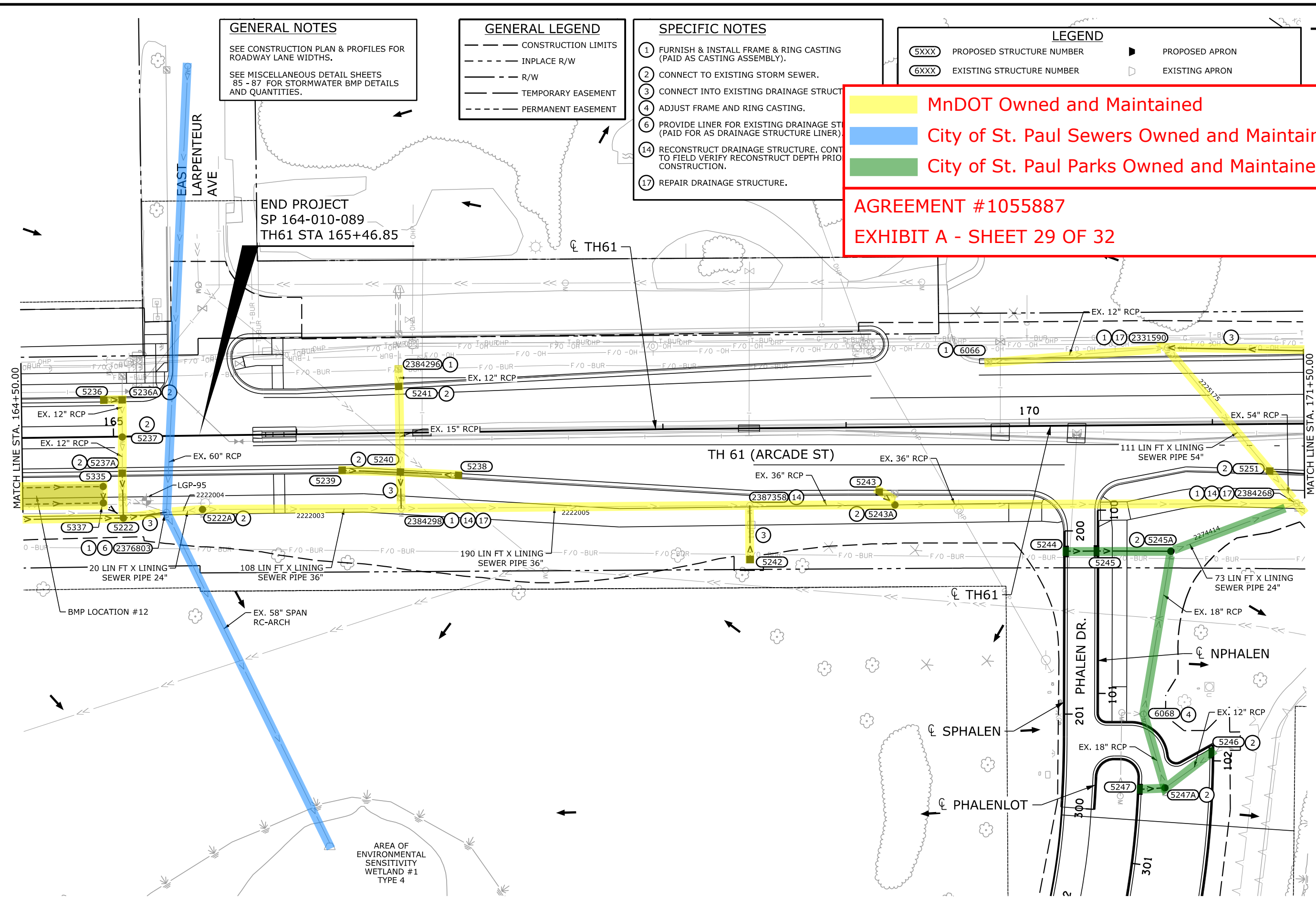
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

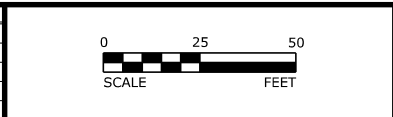
AGREEMENT #1055887

EXHIBIT A - SHEET 29 OF 32



MODEL: 29 - Drainage Plan
 USER: sschwiegler
 PEN TABLE: cdf6221107.plantset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-009+6\Road_Design\Sheets\cdf6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:19:04 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin
 JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
 DRAWN SRS
 CHECKED JLG

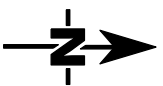


DRAINAGE PLAN

PLAN PAGE 29 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 567 OF 918



GENERAL LEGEND	
---	CONSTRUCTION LIMITS
- - -	INPLACE R/W
- - -	R/W
- - -	TEMPORARY EASEMENT
- - -	PERMANENT EASEMENT

GENERAL NOTES

SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.

SEE MISCELLANEOUS DETAIL SHEETS 85 - 87 FOR STORMWATER BMP DETAILS AND QUANTITIES.

MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

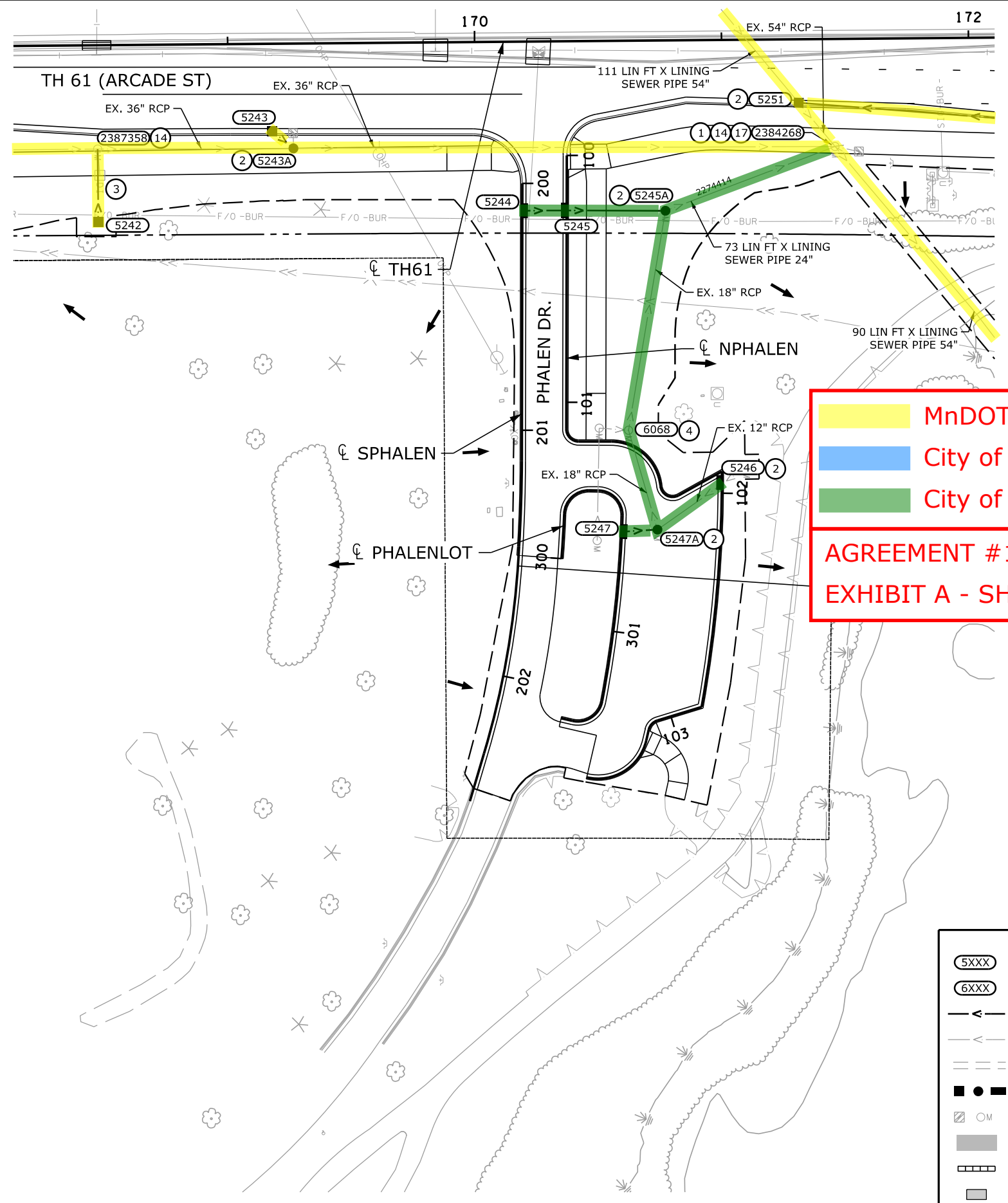
AGREEMENT #1055887

EXHIBIT A - SHEET 30 OF 32

- SPECIFIC NOTES**
- 1 FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - 2 CONNECT TO EXISTING STORM SEWER.
 - 3 CONNECT INTO EXISTING DRAINAGE STRUCTURE.
 - 4 ADJUST FRAME AND RING CASTING.
 - 14 RECONSTRUCT DRAINAGE STRUCTURE. CONTRACTOR TO FIELD VERIFY RECONSTRUCT DEPTH PRIOR TO CONSTRUCTION.
 - 17 REPAIR DRAINAGE STRUCTURE.

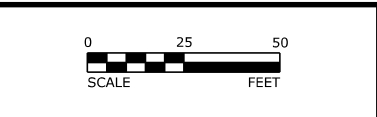
LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▴	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◻	EXISTING APRON
—◀—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - -◀-	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - -◀-	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	XXXXXX	STRUCTURE TAMS HYDINFRA ID
◻ ○ ◻	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
▨	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
▨	2" INSULATION (2 LAYERS)		



MODEL: 30 - Drainage Plan
 USER: ssschwiegler
 PEN TABLE: cdf6221107.plantset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dfr.dgn
 PLOT DRIVER: pdf_bw_11x17only.pltcfq
 PLOT DATE: 7/18/2024 12:19:04 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
 DRAWN: SRS
 CHECKED: JLJ

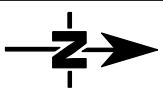


DRAINAGE PLAN

PLAN PAGE 30 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 568 OF 918

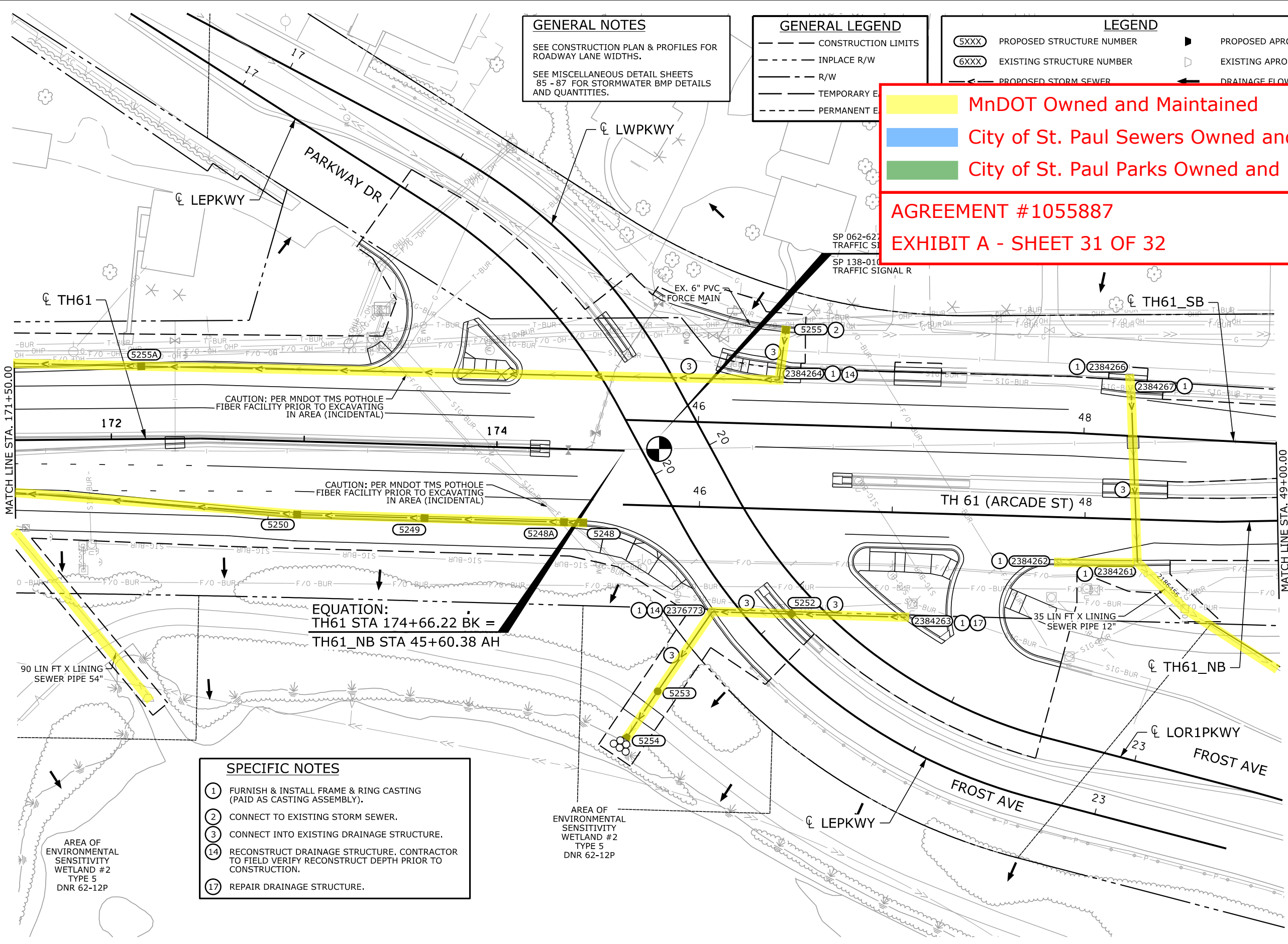


GENERAL NOTES
 SEE CONSTRUCTION PLAN & PROFILES FOR ROADWAY LANE WIDTHS.
 SEE MISCELLANEOUS DETAIL SHEETS 85 - 87 FOR STORMWATER BMP DETAILS AND QUANTITIES.

GENERAL LEGEND
 --- CONSTRUCTION LIMITS
 - - - INPLACE R/W
 - - - R/W
 --- TEMPORARY E
 - - - PERMANENT E

LEGEND
 (5XXX) PROPOSED STRUCTURE NUMBER
 (6XXX) EXISTING STRUCTURE NUMBER
 ▴ PROPOSED APRON
 ▽ EXISTING APRON
 ← PROPOSED STORM SEWER
 ← DRAINAGE FLOW ARROW

MnDOT Owned and Maintained
City of St. Paul Sewers Owned and Maintained
City of St. Paul Parks Owned and Maintained
AGREEMENT #1055887
EXHIBIT A - SHEET 31 OF 32

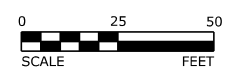


- SPECIFIC NOTES**
- ① FURNISH & INSTALL FRAME & RING CASTING (PAID AS CASTING ASSEMBLY).
 - ② CONNECT TO EXISTING STORM SEWER.
 - ③ CONNECT INTO EXISTING DRAINAGE STRUCTURE.
 - ⑭ RECONSTRUCT DRAINAGE STRUCTURE. CONTRACTOR TO FIELD VERIFY RECONSTRUCT DEPTH PRIOR TO CONSTRUCTION.
 - ⑰ REPAIR DRAINAGE STRUCTURE.

EQUATION:
 TH61 STA 174+66.22 BK =
 TH61_NB STA 45+60.38 AH

MODEL: 31 - Drainage Plan
 USER: sschwiegler
 PEN TABLE: cdf6221107_planset.tbl
 FILE: S:\PROJECTS\TRANS\WinDOT\T-00946\Road_Design\Sheets\cd6221107_dr.dgn
 PLOT DRIVER: pdf_bw_11x17only.plt
 PLOT DATE: 7/18/2024 12:19:05 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

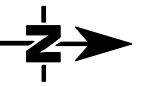
Jessica Griffin
 JESSICA L. GRIFFIN LIC. NO. 59503 DATE 7/18/2024

DESIGNED SRS
 DRAWN SRS
 CHECKED JLG



DRAINAGE PLAN
 PLAN PAGE 31 of 32
 SP 6221-107 (TH 61), SP 6228-69 (TH 5),
 SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 569 OF 918



GENERAL LEGEND

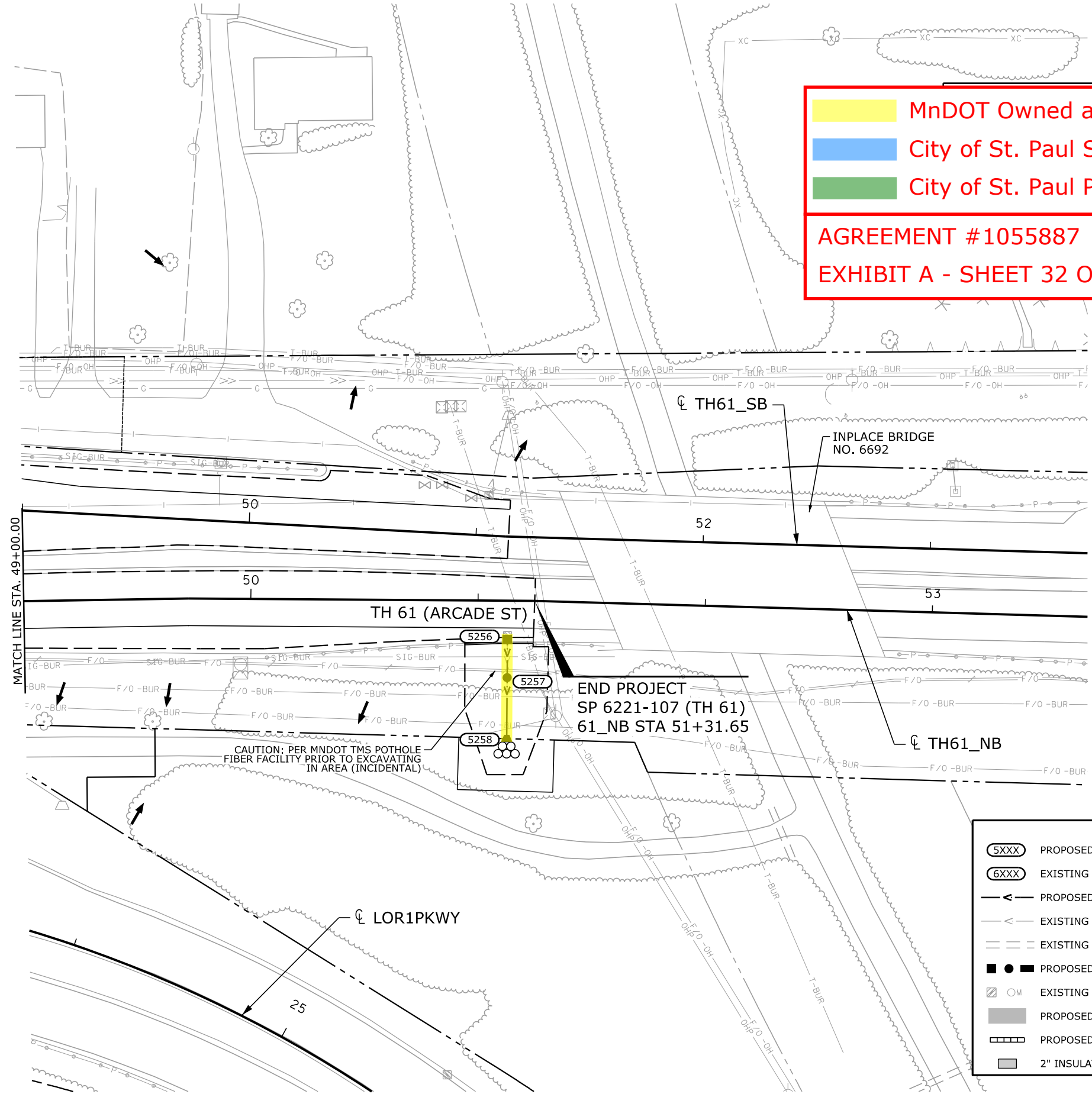
MnDOT Owned and Maintained

City of St. Paul Sewers Owned and Maintained

City of St. Paul Parks Owned and Maintained

AGREEMENT #1055887

EXHIBIT A - SHEET 32 OF 32



MATCH LINE STA. 49+00.00

CAUTION: PER MNDOT TMS POT HOLE FIBER FACILITY PRIOR TO EXCAVATING IN AREA (INCIDENTAL)

END PROJECT
SP 6221-107 (TH 61)
61_NB STA 51+31.65

LEGEND

(5XXX)	PROPOSED STRUCTURE NUMBER	▶	PROPOSED APRON
(6XXX)	EXISTING STRUCTURE NUMBER	◁	EXISTING APRON
—◁—	PROPOSED STORM SEWER	←	DRAINAGE FLOW ARROW
- - - ◁ - - -	EXISTING STORM SEWER	⊗	RANDOM RIPRAP CL III
- - -	EXISTING CULVERT	- - - ◁ - - -	PIPE DRAIN
■ ● ■	PROPOSED DRAINAGE STRUCTURE	(XXXXXX)	STRUCTURE TAMS HYDINFRA ID
◊ ○	EXISTING DRAINAGE STRUCTURE	xxxxxxx	PIPE TAMS HYDINFRA ID
■	PROPOSED STORM WATER TREATMENT	⊕	EXISTING SOIL BORING
▬▬▬	PROPOSED TRENCH DRAIN	⊕	PROPOSED SOIL BORING
■	2" INSULATION (2 LAYERS)		

MODEL: 32 - Drainage Plan

USER: ssschwiegler

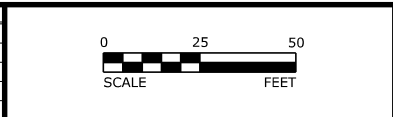
PEN TABLE: cdf6221107_planset.tbl

FILE: S:\PROJECTS\TRANS\WinDOT\T-009+46\Road_Design\Streets\cd6221107_dr.dgn

PLOT DRIVER: pdf_bw_11x17only.plt

PLOT DATE: 7/18/2024 12:19:06 PM

REV. NO.	DATE	BY	CHK	DESCRIPTION



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jessica Griffin

NAME: JESSICA L. GRIFFIN LIC. NO. 59503 DATE: 7/18/2024

DESIGNED: SRS
DRAWN: SRS
CHECKED: JLG



DRAINAGE PLAN

PLAN PAGE 32 of 32

SP 6221-107 (TH 61), SP 6228-69 (TH 5), SP 062-627-007, SP 164-010-089, SP 138-010-023

SHEET 570 OF 918

CITY OF SAINT PAUL

RESOLUTION

IT IS RESOLVED that the City of Saint Paul enter into MnDOT Agreement 1055887 with the State of Minnesota, Department of Transportation for the following purposes:

To provide for payment by the City to the State of the City's share of the costs of the signals, storm sewer, aesthetic lighting, and City utility construction and other associated construction to be performed upon, along, and adjacent to East Seventh Street (Trunk Highway 5) from 300 feet west of Olive Street to East Minnehaha Avenue and upon, along, and adjacent to Arcade Street (Trunk Highway 61) from Trunk Highway 5 to 550 feet north of Frost Avenue under State Project 164-010-089 and State Project 6221-107 (TH 61=102).

IT IS FURTHER RESOLVED that the Mayor and the _____
(Title)
are authorized to execute the Agreement and any amendments to the Agreement.

CERTIFICATION

I certify that the above Resolution is an accurate copy of the Resolution adopted by the Council of the City of Saint Paul at an authorized meeting held on the _____ day of _____, 2024, as shown by the minutes of the meeting in my possession.

Subscribed and sworn to me this _____ day of _____, 2024
Notary Public _____
My Commission Expires _____

_____ (Signature)
_____ (Type or Print Name)
_____ (Title)