

Contract Routing Form

ROUTING: Routine

printed on: 03/26/2019

Contract between: Payne & Dolan, Inc.  
 and Dept. or Division: Engineering Division  
 Name/Phone Number:

Project: Resurfacing 2019 - Asphalt Pavement Pulverizing, Milling & Paving

Contract No.: 8319  
 Enactment No.: RES-19-00225  
 Dollar Amount: 4,723,715.80

File No.: 54893  
 Enactment Date: 03/25/2019

(Please DATE before routing)

Signatures Required	Date Received	Date Signed
City Clerk	3-27-19	3-27-19
Director of Civil Rights	3/27/19	3-29-19 <sup>FNJ</sup>
Risk Manager <i>emailed JJ for current COI</i>	3/29/19	3/29/19 <sup>REN</sup>
Finance Director	03-29-2019	3/29/19 <sup>MCR</sup>
City Attorney	3511   4-01-19	4-02-19
Mayor	4.02.19	4.2.19

Please return signed Contracts to the City Clerk's Office  
 Room 103, City-County Building for filing.

Original + 2 Copies

03/26/2019 15:11:31 enjls - John Fahrney 266-9091

Dis Rights: OK /  N/A / Problem - Hold  
 Prev Wage:  Agency / No  
 Contract Value: 4,723,715  
 AA Plan: Approved  
 Amendment / Addendum # \_\_\_\_\_  
 Type: POS /  Dvlp / Sbdv / Gov't /  
 Grant /  PW / Goal / Loan / Agrmt



Legislation Details (With Text)

**File #:** 54893      **Version:** 1      **Name:** Awarding Public Works Contract No. 8319, Resurfacing 2019 - Asphalt Pavement Pulverizing, Milling & Paving.

**Type:** Resolution      **Status:** Passed

**File created:** 2/26/2019      **In control:** BOARD OF PUBLIC WORKS

**On agenda:** 3/19/2019      **Final action:** 3/19/2019

**Enactment date:** 3/25/2019      **Enactment #:** RES-19-00225

**Title:** Awarding Public Works Contract No. 8319, Resurfacing 2019 - Asphalt Pavement Pulverizing, Milling & Paving. (Citywide)

**Sponsors:** BOARD OF PUBLIC WORKS

**Indexes:**

**Code sections:**

**Attachments:** 1. Contract 8319.pdf

Date	Ver.	Action By	Action	Result
3/19/2019	1	COMMON COUNCIL	Adopt Under Suspension of Rules 2.04, 2.05, 2.24, and 2.25	Pass
3/6/2019	1	BOARD OF PUBLIC WORKS		
2/26/2019	1	Engineering Division	Refer	

The proposed resolution awards the contract for the 2019 citywide pavement resurfacing work at a total estimated cost of \$4,865,430. Funding is provided by the adopted 2019 capital budget for Engineering Major Streets via the Pavement Management capital program. Funding is provided by GO borrowing and associated utility components as follows:

- Major Streets - \$4,841,390
- Sewer Utility - \$16,470
- Water Utility - \$7,570

Awarding Public Works Contract No. 8319, Resurfacing 2019 - Asphalt Pavement Pulverizing, Milling & Paving. (Citywide)

BE IT RESOLVED, that the following low bids for miscellaneous improvements be accepted and that the Mayor and City Clerk be and are hereby authorized and directed to enter into a contract with the low bidder contained herein, subject to the Contractor's compliance with Section 39.02 of the Madison General Ordinances concerning compliance with the Affirmative Action provisions **and subject to the Contractor's compliance with Section 33.07 of the Madison General Ordinances regarding Best Value Contracting:**

BE IT FURTHER RESOLVED, that the funds be encumbered to cover the cost of the projects contained herein.

See attached document (Contract No. 8319) for itemization of bids.

CDD  
3-26-19

## PROJECT

## CONTRACTOR

## AMOUNT OF BID

CONTRACT NO. 8319

RESURFACING 2019 – ASPHALT PAVEMENT PULVERIZING, MILLING &amp; PAVING

PAYNE &amp; DOLAN, INC.

\$4,723,715.80

Acct. No. 11856-402-170: 54410 (91396)	\$2,963,744.50
Contingency 3±	<u>88,915.50</u>
Sub-Total	\$3,052,660.00

Acct. No. 11856-402-200: 54410 (91396)	\$880,493.30
Contingency 3%±	<u>26,416.70</u>
Sub-Total	\$906,910.00

Acct. No. 83252-54410 (91345)	\$8,200.00
Contingency 3%±	<u>250.00</u>
Sub-Total	\$8,450.00

Acct. No. 86367300-54410 (91360)	\$5,880.00
Acct. No. 86367500-54410 (91360)	735.00
Acct. No. 86367700-54410 (91360)	735.00
Contingency Total (\$7,350.00) 3%±	<u>220.00</u>
Sub-Total	\$7,570.00

Acct. No. 11856-402-170-014239: 54410 (91396)	\$856,138.00
Contingency 3%±	<u>25,682.00</u>
Sub-Total	\$881,820.00

Acct. No. 83257-54445-00000 (91396)	\$7,790.00
Contingency 3%±	<u>230.00</u>
Sub-Total	\$8,020.00

GRAND TOTAL	<u>\$4,865,430.00</u>
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Jurisdiction: Wisconsin

Demographics

Company Name: Western Surety Company  
 SBS Company Number: 54219777  
 Domicile Type: Foreign  
 NAIC Group Number: 218 - CNA INS GRP  
 Merger Flag: No

NAIC CoCode: 13188  
 State of Domicile: South Dakota  
 Organization Type: Stock

Short Name:  
 FEIN: 46-0204900  
 Country of Domicile: United States  
 Date of Incorporation: 07/10/1900

Address

Business Address	Mailing Address	Statutory Home Office Address	Main Administrative Office Address
151 N FRANKLIN ST CHICAGO, IL 60606 United States	151 N FRANKLIN ST CHICAGO, IL 60606 United States	101 S REID ST SIOUX FALLS, SD 57103 United States	151 N FRANKLIN ST CHICAGO, IL 60606 United States

Phone, Email, Website

Phone Type	Number	Email	Website
Fax Phone	(312) 260-4376	No results found.	No results found.
Business Primary Phone	(312) 822-5000		

Company Type

Company Type: Property and Casualty  
 Status: Active  
 Effective Date: 05/29/1942  
 Issue Date: 05/29/1942  
 Articles of Incorporation Received: No

Status Reason:  
 Legacy State ID: 111843  
 Approval Date:  
 Article No:

Status Date: 05/29/1942  
 File Date:  
 COA Number:

Appointments

Show 10 entries Showing 1 to 2 of 2487 entries

Licensee Name	License Number	NPN	License Type	Line of Authority	Appointment Date	Effective Date	Expiration Date
ROXANNE JENSEN	9042226	9042226	Intermediary (Agent) Individual	Casualty	06/06/2008	02/22/2019	03/15/2020
ROXANNE ENDL	8519873	6519873	Intermediary (Agent) Individual	Casualty	08/08/2013	02/22/2019	03/15/2020

Navigation: First Previous 1 Next Last

Line Of Business

Line of Business	Citation Type	Effective Date
Fidelity Insurance	Fidelity Insurance	05/29/1942
Liability and Incidental Medical Expense Insurance (other than automobile)	Liability and Incidental Medical Expense Insurance (other than automobile)	05/29/1942
Surety Insurance	Surety Insurance	05/29/1942

Contact

Contact Type	Preferred Name	Name	E-mail	Phone	Address
Registered Agent for Service of Process					Other CT CORPORATION SYSTEM 301 S BEDFORD ST STE 1 MADISON, WI United States County 53703

Company Merger

No results found.

Name Change History

Previous Name	New Name	Effective Date
	Western Surety Company	

\$4,723,715.80  
FILE

BID OF PAYNE & DOLAN, INC.

2019

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING

CONTRACT NO. 8319

PROJECT NO. 11856

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL  
MADISON, WISCONSIN ON MARCH 19, 2019

CITY ENGINEERING DIVISION  
1600 EMIL STREET  
MADISON, WISCONSIN 53713

<https://bidexpress.com/login>

**RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING  
CONTRACT NO. 8319**

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This Proposal, and Agreement have  
been prepared by:

**CITY ENGINEERING DIVISION  
CITY OF MADISON  
MADISON, DANE COUNTY, WISCONSIN**



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Robert F. Phillips, P.E., City Engineer

RFP: jf

## SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

### REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

#### A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING
CONTRACT NO.:	8319
SBE GOAL	6%
BID BOND	5%
SBE PRE BID MEETING (1:00 P.M.)	2/22/2019
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	2/21/2019
BID SUBMISSION (2:00 P.M.)	2/28/2019
BID OPEN (2:30 P.M.)	2/28/2019
PUBLISHED IN WSJ	2/14/2019 & 2/21/2019

SBE PRE BID MEETING: Representatives of the Affirmative Action Department will be present to discuss the Small Business Enterprise requirements at 1600 Emil Street, Madison Wisconsin.

PREQUALIFICATION APPLICATION: Forms are available on our website, [www.cityofmadison.com/business/pw/forms.cfm](http://www.cityofmadison.com/business/pw/forms.cfm). If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED by hand to 1600 EMIL ST., MADISON, WI 53713 or online at [www.bidexpress.com](http://www.bidexpress.com).

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

#### STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2019 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, [www.cityofmadison.com/Business/PW/specs.cfm](http://www.cityofmadison.com/Business/PW/specs.cfm).

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

#### SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a)l. of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

#### SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express ([www.bidexpress.com](http://www.bidexpress.com)). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

#### SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond (City of Madison form) equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

#### MINOR DISCREPENCIES

Bidder is responsible for submitting all forms necessary for the City to determine compliance with State and City bidding requirements. Notwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion or performance of the contract.



**Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an**

Building Demolition

- 101  Asbestos Removal
- 120  House Mover

- 110  Building Demolition

Street, Utility and Site Construction

- 201  Asphalt Paving
- 205  Blasting
- 210  Boring/Pipe Jacking
- 215  Concrete Paving
- 220  Con. Sidewalk/Curb & Gutter/Misc. Flat Work
- 221  Concrete Bases and Other Concrete Work
- 222  Concrete Removal
- 225  Dredging
- 230  Fencing
- 235  Fiber Optic Cable/Conduit Installation
- 240  Grading and Earthwork
- 241  Horizontal Saw Cutting of Sidewalk
- 242  Infrared Seamless Patching
- 245  Landscaping, Maintenance
- 246  Ecological Restoration
- 250  Landscaping, Site and Street
- 251  Parking Ramp Maintenance
- 252  Pavement Marking
- 255  Pavement Sealcoating and Crack Sealing
- 260  Petroleum Above/Below Ground Storage Tank Removal/Installation
- 262  Playground Installer

- 265  Retaining Walls, Precast Modular Units
- 270  Retaining Walls, Reinforced Concrete
- 275  Sanitary, Storm Sewer and Water Main Construction
- 276  Sawcutting
- 280  Sewer Lateral Drain Cleaning/Internal TV Insp.
- 285  Sewer Lining
- 290  Sewer Pipe Bursting
- 295  Soil Borings
- 300  Soil Nailing
- 305  Storm & Sanitary Sewer Laterals & Water Svc.
- 310  Street Construction
- 315  Street Lighting
- 318  Tennis Court Resurfacing
- 320  Traffic Signals
- 325  Traffic Signing & Marking
- 332  Tree pruning/removal
- 333  Tree, pesticide treatment of
- 335  Trucking
- 340  Utility Transmission Lines including Natural Gas, Electrical & Communications
- 399  Other Asphalt Milling/Pulverizing

Bridge Construction

- 501  Bridge Construction and/or Repair

Building Construction

- 401  Floor Covering (including carpet, ceramic tile installation, rubber, VCT)
- 402  Building Automation Systems
- 403  Concrete
- 404  Doors and Windows
- 405  Electrical - Power, Lighting & Communications
- 410  Elevator - Lifts
- 412  Fire Suppression
- 413  Furnishings - Furniture and Window Treatments
- 415  General Building Construction, Equal or Less than \$250,000
- 420  General Building Construction, \$250,000 to \$1,500,000
- 425  General Building Construction, Over \$1,500,000
- 428  Glass and/or Glazing
- 429  Hazardous Material Removal
- 430  Heating, Ventilating and Air Conditioning (HVAC)
- 433  Insulation - Thermal
- 435  Masonry/Tuck pointing

- 437  Metals
- 440  Painting and Wallcovering
- 445  Plumbing
- 450  Pump Repair
- 455  Pump Systems
- 460  Roofing and Moisture Protection
- 464  Tower Crane Operator
- 461  Solar Photovoltaic/Hot Water Systems
- 465  Soil/Groundwater Remediation
- 466  Warning Sirens
- 470  Water Supply Elevated Tanks
- 475  Water Supply Wells
- 480  Wood, Plastics & Composites - Structural & Architectural
- 499  Other \_\_\_\_\_

State of Wisconsin Certifications

- 1  Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
- 2  Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
- 3  Class 7 Blaster - Blasting Operations and Activities for structures greater than 15' in height, bridges, towers, and any of the objects or purposes listed as "Class 5 Blaster or Class 6 Blaster".
- 4  Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
- 5  Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application: [www.dhs.wisconsin.gov/Asbestos/Cert](http://www.dhs.wisconsin.gov/Asbestos/Cert). State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
- 6  Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture
- 7  Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP)
- 8  State of Wisconsin Master Plumbers License.

## SECTION B: PROPOSAL

Please refer to the  
Bid Express Website  
at <https://bidexpress.com>  
look up contract number  
and go to  
Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at [www.bidexpress.com](http://www.bidexpress.com)

Click on the "Register for Free" button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a 'per bid' basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the 'Digital ID' process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

## SECTION C: SMALL BUSINESS ENTERPRISE

### Instructions to Bidders City of Madison SBE Program Information

#### 2 Small Business Enterprise (SBE) Program Information

##### 2.1 Policy and Goal

The City of Madison reaffirms its policy of nondiscrimination in the conduct of City business by maintaining a procurement process which remains open to all who have the potential and ability to sell goods and services to the City. It is the policy of the City of Madison to allow Small Business Enterprises (SBE) maximum feasible opportunity to participate in City of Madison contracting. The bidder acknowledges that its bid has been submitted in accordance with the SBE program and is for the public's protection and welfare.

Please refer to the "ADVERTISEMENT FOR BIDS" for the goal for the utilization of SBEs on this project. SBEs may participate as subcontractors, vendors and/or suppliers, which provide a commercially useful function. The dollar value for SBE suppliers or 'materials only' vendors shall be discounted to 60% for purposes of meeting SBE goals.

A bidder which achieves or exceeds the SBE goal will be in compliance with the SBE requirements of this project. In the event that the bidder is unable to achieve the SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Failure to either achieve the goal or demonstrate a good faith effort to do so will be grounds for the bidder being deemed a non-responsible contractor ineligible for award of this contract.

A bidder may count towards its attainment of the SBE goal only those expenditures to SBEs that perform a commercially useful function. For purposes of evaluating a bidder's responsiveness to the attainment of the SBE goal, the contract participation by an SBE is based on the percentage of the total base bid proposed by the Contractor. The total base bid price is inclusive of all addenda.

Work performed by an SBE firm in a particular transaction can be counted toward the goal only if it involves a commercially useful function. That is, in light of industry practices and other relevant considerations, does the SBE firm have a necessary and useful role in the transaction, of a kind for which there is a market outside the context of the SBE Program, or is the firm's role a superfluous step added in an attempt to obtain credit towards goals? If, in the judgment of the Affirmative Action Division, the SBE firm will not perform a commercially useful function in the transaction, no credit towards goals will be awarded.

The question of whether a firm is performing a commercially useful function is completely separate from the question of whether the firm is an eligible SBE. A firm is eligible if it meets the definitional criteria and ownership and control requirements, as set forth in the City of Madison's SBE Program.

If the City of Madison determines that the SBE firm is performing a commercially useful function, then the City of Madison must then decide what that function is. If the commercially useful function is that of an SBE vendor / supplier that regularly transacts business with the respective product, then the City of Madison will count 60% of the value of the product supplied toward SBE goals.

To be counted, the SBE vendor / supplier must be engaged in selling the product in question to the public. This is important in distinguishing an SBE vendor / supplier, which has a regular trade with a variety of customers, from a firm which performs supplier-like functions on an ad hoc basis or for only one or two contractors with whom it has a special relationship.

A supplier of bulk goods may qualify as an eligible SBE vendor / supplier if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment; e.g., a fleet of trucks, the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party; e.g., a prime contractor, or leases such a party's trucks on an ad hoc basis for a specific job.

If the commercially useful function being performed is not that of a qualified SBE vendor / supplier, but rather that of delivery of products, obtaining bonding or insurance, procurement of personnel, acting as a broker or manufacturer's representative in the procurement of supplies, facilities, or materials, etc., only the fees or commissions will apply towards the goal.

For example, a business that simply transfers title of a product from manufacturer to ultimate purchaser; e. g., a sales representative who re-invoices a steel product from the steel company to the Contractor, or a firm that puts a product into a container for delivery would not be considered a qualified SBE vendor / supplier. The Contractor would not receive credit based on a percentage of the cost of the product for working with such firms.

Concerning the use of services that help the Contractor obtain needed supplies, personnel, materials or equipment to perform a contract: only the fee received by the service provider will be counted toward the goal. For example, use of a SBE sales representative or distributor for a steel company, if performing a commercially useful function at all, would entitle the Contractor receiving the steel to count only the fee paid to the representative or distributor toward the goal. This provision would also govern fees for professional and other services obtained expressly and solely to perform work relating to a specific contract.

Concerning transportation or delivery services: if an SBE trucking company picks up a product from a manufacturer or a qualified vendor / supplier and delivers the product to the Contractor, the commercially useful function it is performing is not that of a supplier, but simply that of a transporter of goods. Unless the trucking company is itself the manufacturer or a qualified vendor / supplier in the product, credit cannot be given based on a percentage of the cost of the product. Rather, credit would be allowed for the cost of the transportation service.

The City is aware that the rule's language does not explicitly mention every kind of business that may contribute work on this project. In administering these programs, the City would, on a case-by-case basis, determine the appropriate counting formula to apply in a particular situation.

## **2.2 Contract Compliance**

Questions concerning the SBE Program shall be directed to the Contract Compliance Officer of the City of Madison Department of Civil Rights, Affirmative Action Division, 210 Martin Luther King, Jr. Blvd., Room 523, Madison, WI 53703; telephone (608) 266-4910.

## 2.3 Certification of SBE by City of Madison

The Affirmative Action Division maintains a directory of SBEs which are currently certified as such by the City of Madison. Contact the Contract Compliance Officer as indicated in Section 2.2 to receive a copy of the SBE Directory or you may access the SBE Directory online at [www.cityofmadison.com/dcr/aaTBDDir.cfm](http://www.cityofmadison.com/dcr/aaTBDDir.cfm).

All contractors, subcontractors, vendors and suppliers seeking SBE status must complete and submit the **Targeted Business Certification Application** to the City of Madison Affirmative Action Division by the time and date established for receipt of bids. A copy of the Targeted Business Certification Application is available by contacting the Contract Compliance Officer at the address and telephone indicated in Section 2.2 or you may access the Targeted Business Certification Application online at [www.cityofmadison.com/dcr/aaTBDDir.cfm](http://www.cityofmadison.com/dcr/aaTBDDir.cfm). Submittal of the Targeted Business Certification Application by the time specified does not guarantee that the applicant will be certified as a SBE eligible to be utilized towards meeting the SBE goal for this project.

## 2.4 Small Business Enterprise Compliance Report

### 2.4.1 Good Faith Efforts

Bidders shall take all necessary affirmative steps to assure that SBEs are utilized when possible and that the established SBE goal for this project is achieved. A contractor who self performs a portion of the work, and is pre-qualified to perform that category of work, may subcontract that portion of the work, but shall not be required to do so. When a bidder is unable to achieve the established SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Such a good faith effort should include the following:

- 2.4.1.1 Attendance at the pre-bid meeting.
- 2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.
- 2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.
- 2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.
- 2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.
- 2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.
- 2.4.1.7 Providing SBEs with specific information regarding the work to be performed.
- 2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.
- 2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.
- 2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.
- 2.4.1.11 Completion of Cover Page (page C-6), Summary Sheet (page C-7) and SBE Contact Reports (pages C-8 and C9) if applicable.

## 2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the bidder with the bid. This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below may be deemed non-responsible and the bidder ineligible for award of this contract. Notwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion, performance of the contract, or percentage of SBE utilization.

2.4.2.1 If the Bidder meets or exceeds the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

- 2.4.2.1.1 **Cover Page**, Page C-6; and
- 2.4.2.1.2 **Summary Sheet**, C-7.

2.4.2.2 If the bidder does not meet the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

- 2.4.2.2.1 **Cover Page**, Page C-6;
- 2.4.2.2.2 **Summary Sheet**, C-7; and
- 2.4.2.2.3 **SBE Contact Report**, C-8 and C-9. (A separate Contact Report must be completed for each applicable SBE which is not utilized.)

## 2.5 Appeal Procedure

A bidder which does not achieve the established goal and is found non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may appeal that decision to the Small Business Enterprises Appeals Committee. All appeals shall be made in writing, and shall be delivered to and received by the City Engineer no later than 4:30 PM on the third business day following the bidder's receipt of the written notification of ineligibility by the Affirmative Action Division Manager. Postmark not acceptable. The notice of appeal shall state the basis for the appeal of the decision of the Affirmative Action Division Manager. The Appeal shall take place in accordance with Madison General Ordinance 33.54.

## 2.6 SBE Requirements After Award of the Contract

The successful bidder shall identify SBE subcontractors, suppliers and vendors on the subcontractor list in accordance with the specifications. The Contractor shall submit a detailed explanation of any variances between the listing of SBE subcontractors, vendors and/or suppliers on the subcontractor list and the Contractor's SBE Compliance Report for SBE participation.

No change in SBE subcontractors, vendors and/or suppliers from those SBEs indicated in the SBE Compliance Report will be allowed without prior approval from the Engineer and the Affirmative Action Division. The contractor shall submit in writing to the City of Madison Affirmative Action Division a request to change any SBE citing specific reasons which necessitate such a change. The Affirmative Action Division will use a general test of reasonableness in approving or rejecting the contractor's request for change. If the request is approved, the Contractor will make every effort to utilize another SBE if available.

The City will monitor the project to ensure that the actual percentage commitment to SBE firms is carried out.

## **2.7 SBE Definition and Eligibility Guidelines**

A Small Business Enterprise is a business concern awarded certification by the City of Madison. For the purposes of this program a Small Business Enterprise is defined as:

- A. An independent business operated under a single management. The business may not be a subsidiary of any other business and the stock or ownership may not be held by any individual or any business operating in the same or a similar field. In determining whether an entity qualifies as a SBE, the City shall consider all factors relevant to being an independent business including, but not limited to, the date the business was established, adequacy of its resources for the work in which it proposes to involve itself, the degree to which financial, equipment leasing and other relationships exist with other ineligible firms in the same or similar lines of work. SBE owner(s) shall enjoy the customary incidents of ownership and shall share in the risks and profits commensurate with their enjoyment interests, as demonstrated by an examination of the substance rather than form or arrangements that may be reflected in its ownership documents.
- B. A business that has averaged no more than \$4.0 million in annual gross receipts over the prior three year period and the principal owner(s) do not have a personal net worth in excess of \$1.32 million.

Firm and/or individuals that submit fraudulent documents/testimony may be barred from doing business with the City and/or forfeit existing contracts.

SBE certification is valid for one (1) year unless revoked.

## SECTION D: SPECIAL PROVISIONS

### RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING CONTRACT NO. 8319

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

#### **SECTION 102.11: BEST VALUE CONTRACTING**

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$62,500 for a single trade contract; or equal to or greater than \$306,000 for a multi-trade contract pursuant to MGO 33.07(7).

#### **SECTION 104 SCOPE OF WORK**

This contract includes pulverizing, milling and paving various streets that are included with the resurfacing program.

This contractor shall be required to coordinate with the other contractors performing work on the resurfacing program contracts.

In addition to the pulverizing and milling streets, there are three (3) locations that require surface paving: Frey Street & Sawyer Terrace, Meadowlands Phase 9, and Meadowlands Phase 10. All work required prior to paving is included in this contract. This work includes wedge cut grinding butt joints and around SASs, tack, and raising valve boxes to grade. Raising valve boxes to final grade on all the Groups shall be considered incidental to paving. If, however, excavation is required to adjust the valve box, the contractor shall be paid for this work with bid items.

One City of Madison Engineering lift station shall be paved. Engineering staff shall remove the existing asphalt and rough grade the parking lot to within two inches of final gravel grades and restore the site with topsoil, seed and matting. The contractor shall fine grade and place the Hot Mix Asphalt. The HMA shall be HMA Pavement 4 LT 58-28 S, placed in one lift of 3 inches.

<u>LOCATION OF LIFT STATION</u>	<u>AREA</u>
1550 COMANCHE GLEN	410 SY

#### **SECTION 105.6 CONTRACTORS RESPONSIBILITY FOR WORK**

The Contractor shall have at all times during the progress of construction one Superintendent as the agent for the Contractor on this work, who is thoroughly understanding of all aspects of the Resurfacing Program and shall receive instructions from the Engineer. The contractor shall verify that all valve castings operate and SAS and utility castings are in place and sealed before acceptance of the pulverized and shaped or milled street. The contractor shall repair as required by the Engineer.

#### **SECTION 105.12 COOPERATION OF THE CONTRACTOR**

The City of Madison has been given to understand that the following work will be undertaken by others in approximately the same time frame and the same area as the proposed project. It shall be the Contractor's responsibility to verify this information and any subsequent changes in the scheduling of the work by others and to make corrections in his/her construction timetable as required. The Contractor shall coordinate the work under this contract with the work by others stated below.



It is anticipated that MG&E will be replacing natural gas mains and services on the following streets:

S. STOUGHTON SERVICE RD	QUARTERDECK DR	MASTHEAD DR	LANDFALL DR
KEELSON DR	MILWAUKEE ST	YELLOWSTONE DR	
VALLEY RD	SHADY WOOD WAY	QUIET LN	

It is also anticipated that Madison Metropolitan Sewerage District (MMSD) and AT&T have manholes and/or handholes on some of the roads in this contract and these structures may need adjusting prior to paving.

A contract, Spring Harbor Greenway at Masthead (Nautilus Pond Reconstruction) (8325) will be let for construction that may occur during this project.

The City of Madison Engineering Division will be awarding a contract for curb & gutter replacement and casting adjustment (contract 8318) in conjunction with this contract.

Contractor shall install pavement markings, within two (2) working days of surface paving, as included in this contract on the following streets:

ADVANCE RD	TOMPKINS DR	MILWAUKEE ST	YELLOWSTONE DR
VONDRON RD	PFLAUM RD	PROGRESS RD	AGRICULTURE DR
E. BROADWAY SERVICE RD		N. MILLS ST	GRANT ST
EDGEWOOD AVE		S. STOUGHTON SERVICE RD	FREY STREET
SAWYER TERRACE			

Traffic Engineering shall install pavement markings on the remaining streets as needed.

Traffic Engineering crews will be replacing or adding traffic signal loops after the pulverizing or milling and before the paving on the following streets with signal loops:

S. STOUGHTON RD SERVICE RD	AGRICULTURE DR	MILWAUKEE ST	N. MILLS ST
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Streets may be deleted or added to the above list. The contractor shall coordinate installation of any loop detectors and conduit with Traffic Engineering. The Contractor shall notify City Traffic Engineering 48 hours, (Bill Gilbertson 266-4767), prior to final paving.

Cost to repair damage to traffic signal loops that occur after their installation due to Contractor negligence, and cost for extra work to install the traffic signal loops in newly paved streets due to improper notice to the Traffic Engineering Division, will be deducted from the contract.

#### **SECTION 105.13      ORDER OF COMPLETION**

Prior to beginning operations under this contract, Contractors involved in the Resurfacing Program shall meet collectively with the Engineer, at the pre-construction meeting, to establish a tentative list in what street order they will proceed. The Engineer shall have final approval regarding the tentative list.

The Contractor shall proceed on this contract so as not to cause delays to the contracts as noted in section 105.12. Delay costs in accordance with section 109.9 "**LIQUIDATED DAMAGES**" of the Standard Specification shall be assessed for each day that the contractors on the above listed contracts are delayed.

#### **SECTION 106.1      SOURCE OF SUPPLY AND QUALITY**

No work shall begin on this contract until such time that asphalt mix design(s) are approved by the City of Madison.

**SECTION 107.1            PUBLIC CONVENIENCE AND SAFETY**

Access to businesses shall be maintained at all times.

The contractor shall not work on streets abutting school property while school is in session unless approved by the Engineer.

Work at or near Walker Dr, Charleen Ln, Flint Ln, Lois Ln, Beehner Cir and Ralph Cir, Edgewood Ave, and N. Mills St shall not occur during the school year unless approved by the Engineer.

The following streets are bus routes. Contractor shall contact Madison Metro at least 7 days prior to starting work on the following streets:

N MILLS ST    VONDRON RD            PFLAUM RD    AGRICULTURE DR    ADVANCE DR  
STOUGHTON SERVICE RD            MASTHEAD DR            MILWAUKEE ST

**SECTION 107.6            DUSTPROOFING**

The Contractor shall take all necessary steps to control dust arising from operations connected with this contract. When ordered by the Engineer, the Contractor shall dust proof the construction area by using power sweepers and water. Dustproofing shall be incidental with operations connected with this contract.

**SECTION 107.7            MAINTENANCE OF TRAFFIC**

The Contractor shall be responsible for installing and maintaining traffic control in accordance with the approved Traffic Control Plan and as directed by the City Traffic Engineer. The traffic control plan may need to be altered as conditions change in the field or as unexpected conditions occur. This may include relocating existing traffic control or providing additional traffic control. The Contractor shall install and maintain any necessary modifications or additions to the traffic control, as directed by the City Traffic Engineer, at no cost to the City.

All signing and barricading shall conform to the Federal Highways Administrations "Manual on Uniform Traffic Control Devices" (MUTCD).

No construction equipment or materials shall be stored in the peak hour restriction roadway or street right-of-way that is open to traffic during non-working hours.

The Traffic Control Plan shall be submitted to the office of the City Traffic Engineer, at 215 Martin Luther King, Jr. Blvd, Suite 100, Madison, WI 53703, a minimum of five (5) working days prior to the pre-construction meeting. The Traffic Control Plans shall address all requirements of this section of the Special Provisions. The successful bidder shall work with the City Traffic Engineering Division to develop approved Traffic Control Plans. The Contractor shall not start work on this project until the Traffic Engineering Division has approved a traffic control plan and traffic control devices have been installed, in accordance with the approved plan. Failure of the Contractor to obtain approval of a Traffic Control Plan, as specified above, may prevent the Contractor from starting work and shall be considered a delay of the project, caused by the Contractor.

The Contractor shall submit acceptable Traffic Control Plans for the following streets to be resurfaced:

S STOUGHTON RD SERVICE RD    E BROADWAY SERVICE RD    AGRICULTURE DR  
PFLAUM RD                            VONDRON RD                            MILWAUKEE ST  
GRANT ST                                N MILLS ST                                EDGEWOOD AVE

Contact Thomas Mohr, Traffic Engineering Division, 267-8725, with any questions concerning these traffic control specifications.

Refer to section 403.1 of the City of Madison Standard Specifications for Traffic Control.

Traffic Control and Mobilization shall be paid per the following street groupings:

**GROUP A**

S STOUGHTON RD SERVICE RD

**GROUP B**

E BROADWAY SERVICE RD  
AGRICULTURE DR

**GROUP C**

SEIFERTH RD  
TOMPKINS DR  
PROGRESS RD  
ADVANCE RD

**GROUP D**

DAFFODIL LN  
VIOLET LN  
VIOLET CR  
HAMLET PL

**GROUP E**

FLINT LN  
WALKER DR  
RALPH CIR  
BEEHNER CIR  
CHARLEEN LN  
LOIS LN

**GROUP F**

PEBBLE BEACH DR

**GROUP G**

VALLEY RD  
SHADY WOOD WAY  
QUIET LN

**GROUP H**

KALAS ST  
AMMERMAN CIR  
BEA CIR

**GROUP I**

QUARTERDECK DR  
MASTHEAD DR  
LANDFALL DR  
KEELSON DR

**GROUP J**

PFLAUM RD  
VONDRON RD

**GROUP K**

E OAKBROOK CIR  
W OAKBROOK CIR  
OAK BROOK CR  
CROSSBRIDGE CT  
SANDY CT  
STONEHEDGE CT  
OAK GLEN CT

**GROUP L**

MILWAUKEE ST

**GROUP M**

N YELLOWSTONE DR

**GROUP N**

MILLS, EDGEWOOD & GRANT

**GROUP O**

FREY/SAWYER & MEADOWLANDS PHASE 9 & 10

If streets are added or deleted to Group A through Group O, compensation shall be increased or decreased for the change in Traffic Control.

The unit price bid for items 10701R, 10701S or 10701T shall be used for additions and deletions to the groups above or if additional streets are added.

The unit price bid for item 10911R shall be used for additions and deletions to the groups above or if additional streets are added.

**BID ITEM 10701R – TRAFFIC CONTROL – LOCAL STREET (undistributed)**

**DESCRIPTION**

This bid item shall be used for streets added/deleted to the list of streets contained in this contract. Local streets are those streets defined as "LOCAL" on the City of Madison Highway and Street Functional Classification Map. Work under this item shall include providing traffic control in accordance with Section 403.1 of the City of Madison Standard Specifications and the Federal Highways Administration "Manual on Uniform Traffic Control Devices" (MUTCD).

**METHOD OF MEASUREMENT**

Traffic control – Local street shall be measured by the unit of Each per street added/deleted to the contract.

**BASIS OF PAYMENT**

Traffic Control – Local Street measured as provided above shall be paid for at the contract unit price per Each which shall be full compensation for all work, materials, labor and incidentals required to complete the work as set forth in the description.

**BID ITEM 10701S– TRAFFIC CONTROL – MAJOR STREET, TWO LANES (undistributed)**

**DESCRIPTION**

This bid item shall be used for streets added/deleted to the list of streets contained in this contract. Major streets, two lanes are defined on the City of Madison Highway and Street Functional Classification Map. Work under this item shall include providing traffic control in accordance with Section 403.1 of the City of Madison Standard Specifications and the Federal Highways Administration "Manual on Uniform Traffic Control Devices" (MUTCD).

**METHOD OF MEASUREMENT**

Traffic control – Major Street, two lanes shall be measured by the unit of Each per street added/deleted to the contract.

**BASIS OF PAYMENT**

Traffic Control – Major Street, two lanes measured as provided above shall be paid for at the contract unit price per Each which shall be full compensation for all work, materials, labor and incidentals required to complete the work as set forth in the description.

**BID ITEM 10701T– TRAFFIC CONTROL – MAJOR STREET, MORE THAN TWO LANES (undistributed)**

**DESCRIPTION**

This bid item shall be used for streets added/deleted to the list of streets contained in this contract. Major streets, more than two lanes are defined on the City of Madison Highway and Street Functional Classification Map. Work under this item shall include providing traffic control in accordance with Section 403.1 of the City of Madison Standard Specifications and the Federal Highways Administration "Manual on Uniform Traffic Control Devices" (MUTCD).

**METHOD OF MEASUREMENT**

Traffic control – Major Street, more than two lanes shall be measured by the unit of Each per street added/deleted to the contract.

**BASIS OF PAYMENT**

Traffic Control – Major Street, more than two lanes measured as provided above shall be paid for at the contract unit price per Each which shall be full compensation for all work, materials, labor and incidentals required to complete the work as set forth in the description.

## **PEAK HOUR RESTRICTIONS**

The Contractor and any subcontractor for the Street Resurfacing Program shall be required to adhere to peak hour traffic restrictions between the hours of 7:00 a.m. to 8:30 a.m. and 4:00 p.m. to 5:30 p.m. on the below listed streets. No work shall be done between these hours.

S STOUGHTON RD  
PFLAUM RD  
GRANT ST

E BROADWAY SERVICE RD  
VONDRON RD  
N MILLS ST

AGRICULTURE DR  
MILWAUKEE ST  
EDGEWOOD AVE.

## **SECTION 109.2      PROSECUTION OF THE WORK**

The Contractor shall begin work on this project on or before **MAY 1, 2019**. Work shall begin only after the start work letter is received. If it is desirable to begin work before the above mentioned date, the Contractor shall establish a mutually acceptable date with the City Engineer (contact the Construction Engineer at 266-9091). The work called for by this contract shall be completed in **ONE-HUNDRED (100) WORK DAYS**. The time of completion will be computed in accordance with Section 109.7 of the Specifications starting with the latest start date shown or the actual date work begins whichever is sooner.

Milwaukee St paving shall be completed with tandem paving.

## **SECTION 109.5      METHODS AND EQUIPMENT**

The Contractor shall inspect and certify, in writing, that all sewer access points are in place, sealed and free of debris prior to leaving each site. If there is any debris in the sewer access points that the Contractor feels is not their responsibility they shall promptly bring it to the attention of the Project Engineer before beginning work. The paving contractor shall verify operation of all valve castings within 24 hours of placement of the lower layer of asphalt. Any repairs required to the new pavement shall be by infrared method or approved by Engineer.

## **ARTICLE 402 - ASPHALT CONSTRUCTION**

The contractor shall ramp castings and turn down water boxes that will be under traffic with HMA on Milwaukee St.

## **BID ITEM 90001 – LIFT STATION PAVING**

### **DESCRIPTION**

One City of Madison Engineering lift station parking lot located at 1550 Comanche Glen shall be resurfaced. This work shall consist of fine grading and paving with HMA. As mentioned before, Engineering staff shall remove the existing asphalt and rough grade the parking lot to within two inches of final gravel grades. The HMA shall be HMA Pavement 4 LT 58-28 S, placed in one lift of 3 inches. The contractor shall place the gravel and HMA to the line and grade as established by Engineering. Restoration shall be completed by Engineering staff. All mobilization and traffic control shall be incidental to the above bid item.

### **METHOD OF MEASUREMENT**

Lift Station Paving shall be measured by the unit Square yard.

### **BASIS OF PAYMENT**

Lift Station Paving measured as stated above is full compensation for providing all materials except CABG; for fine grading; paving; equipment; labor; traffic control and mobilization and incidentals required to complete the work as set forth in the description.

## BID ITEM 90002 – ASPHALT REJUVENATOR

### DESCRIPTION

This work shall consist of furnishing all labor, material and equipment necessary to perform all operations for the application of Asphalt rejuvenator on Milwaukee St, Masthead Dr, Quarterdeck Dr, Landfall Dr, Keelson Dr, Grant St, and Yellowstone Dr, which shall be Reclamite Emulsified Maltene-Based Asphalt Rejuvenating Agent or an approved equivalent to bituminous asphaltic concrete surface courses. The rejuvenation of surface courses shall be by spray application of a cationic Maltene-Based Rejuvenating Agent composed of petroleum oils and resins emulsified with water. The base used for the emulsion shall be naphthenic. All work shall be in accordance with the specifications, any applicable drawings, and subject to the terms and conditions of this contract.

The Contractor shall present samples of materials, laboratory reports, calibration reports, and proof of work experience as required by these specifications to the Project Engineer prior to beginning work.

### MATERIALS

**Material Specifications:** The emulsion will be a naphthenic maltene-based rejuvenating agent composed of four petroleum maltene components (listed below) uniformly emulsified with water. Each bidder must submit with his bid a certified statement from the asphalt rejuvenator manufacturer showing that the asphalt rejuvenating emulsion conforms to the required physical and chemical requirements.

THE ASPHALT REJUVENATOR SHALL MEET THESE SPECIFICATIONS:

Property	Test Method	Requirements	
		Min.	Max.
Viscosity @ 25°C, SFS	ASTM D244	15	40
Residue, w%	D244 (Mod) <sup>3</sup>	60	65
Miscibility Test	D244 (Mod.) <sup>2</sup>	2	Pass
Sieve Test, w%	D244(Mod.) <sup>1</sup>	-	0.1
Particle Charge Test	D244		Positive
Tests on Distillation Residue:			
Flash Point, COC, C	D92	196	-
Viscosity@ 60C, C	D2170	100	200
Asphaltenes, %w	D2006-70	-	1.00
Maltene Dist. Ratio (Polar Compounds) + (First Acidaffins) (Saturates) + (Second Acidaffins)	D2006-70	0.3	0.6
Polar Compounds/Saturates Ratio	D2006-70	0.5	-
Asphaltenes, w%	D2006-70	1.0	-
Saturated Hydrocarbons, w%	D2006-70	21	28

- 1- Test procedure identical with ASTM D-244 except that distilled water shall be used in place of two (2) percent sodium oleate solution.
- 2- Test procedure identical with ASTM D-244 except that .02 Normal Calcium Chloride solution shall be used in place of distilled water.
- 3- ASTM D-244 Modified Evaporation Test for percent of residue is made by heating 50 gram sample to 149 C (300 F) until foam ceases, then cool immediately and calculate results.

**Material Performance:** The rejuvenating agent shall have record of at least two years of satisfactory service as asphalt rejuvenating agent and in-depth sealer. Satisfactory service shall be based on the capability of the material to penetrate, replace lost maltene fractions, and decrease the viscosity and increase the penetration value of the in-place asphalt binder as follows; the viscosity shall be reduced by a minimum of forty-five (45) percent, the penetration value shall be increased by a minimum of twenty-five (25) percent. Testing shall be performed by an independent testing laboratory on extracted asphalt cement from pavement to a depth of three-eighths inch (3/8"). In addition, the pavement shall be in-depth sealed to prevent the intrusion of air and water.

The bidder must submit with their bid:

1. Asphalt Rejuvenator product name and descriptive literature. Literature shall be descriptive and detailed information and shall show it at least meets the material specifications.
2. A current Material Safety Data Sheet (MSDS) for the material.
3. The manufacturer's certification that the material proposed for use is in compliance with these specification requirements.
4. Previous use documentation and test data conclusively demonstrating that the rejuvenating agent has been used successfully for a period of two years by government agencies such as Cities, Counties, or DOT's.
5. Testing data from a minimum of five projects showing that the asphalt rejuvenating agent has been proven to perform, as heretofore required, through field testing by an independent testing laboratory as to the required change in the asphalt binder viscosity and penetration number.

## CONSTRUCTION

**Applicator Experience:** The asphalt rejuvenating agent shall be applied by an experienced applicator of such material. The Contractor must submit with his bid a list of five (5) projects on which he applied said rejuvenator. He shall indicate the project dates, number of square yards treated in each and the name and phone number of the manager in charge of each project.

A project superintendent knowledgeable and experienced in application of the asphalt rejuvenating agent must be present and in control of each day's work. The bidder shall submit at the preconstruction meeting a written experience outline of the project superintendent.

**Application Temperature and Weather Limitations:** The temperature of the asphalt rejuvenation emulsion, at the time of application shall be as recommended by the manufacturer. The asphalt rejuvenating agent shall be applied only when the existing surface to be treated is thoroughly dry. The asphalt rejuvenating agent shall not be applied when the ambient temperature is below 40 degrees Fahrenheit or when temperatures are forecasted to fall below 35 degrees Fahrenheit within twenty-four (24) hours of application. It shall be the discretion of the Construction Engineer to determine when weather conditions are not appropriate for the application to occur. Contractor shall halt the application process when so ordered by the Construction Engineer.

**Handling of Asphalt Rejuvenating Agent:** Contents in tank cars or storage tanks shall be circulated at least forty-five minutes before withdrawing any material for application. When loading the distributor, the asphalt rejuvenating agent concentrate shall be loaded first and then the required amount of water shall be added. The water shall be added into the distributor with enough force to cause agitation and thorough mixing of the two (2) materials. To prevent foaming, the discharge end of the water hose or pipe shall be kept below the surface of the material in the distributor which shall be used as a spreader. The distributor truck will be cleaned of all of its asphalt materials, and washed out to the extent that no discoloration of the emulsion may be perceptible. Cleanliness of the spreading equipment shall be subject to inspection and the Contractor shall halt the application process when so ordered by the Construction Engineer.

**Application Equipment:** The distributor for spreading the emulsion shall be self-propelled, and shall have pneumatic tires. The distributor shall be designed and equipped to distribute the asphalt rejuvenating agent uniformly on variable widths of surface at readily determined and controlled rates from 0.05 to 0.5 gallons per square yard of surface, and with an allowable variation from any specified rate not to exceed five (5) percent of the specified rate.

Distributor equipment shall include full circulation spray bars, pump tachometer, volume measuring device and a hand hose attachment suitable for application of the emulsion manually to cover areas inaccessible to the distributor. The distributor shall be equipped to circulate and agitate the emulsion within the tank. A check of distributor equipment as well as application rate accuracy and uniformity of distribution shall be made when directed by the Construction Engineer.

The truck used for sanding shall be equipped with a spreader that allows the sand to be uniformly distributed onto the pavement. The spreader shall be able to apply 1 to 4 pounds of sand per square yard in a single pass. The spreader shall be adjustable so as to not broadcast sand onto driveways or tree lawns. Any equipment which is not maintained in full working order, or is proven inadequate to obtain the results prescribed, shall be repaired or replaced at the direction of the Construction Engineer.

**Application of Rejuvenating Agent:** The asphalt rejuvenating agent shall be applied by a distributor truck at the temperature recommended by the manufacturer and at the pressure required for the proper distribution. The emulsion shall be so applied that uniform distribution is obtained at all points of the areas to be treated.

Distribution shall be commenced with a running start to insure full rate of spread over the entire area to be treated. Areas inadvertently missed shall receive additional treatment as may be required by a hand sprayer application. Application of the asphalt rejuvenating agent shall be on no more than one-half width of the pavement at a time. When the second half of the surface is treated, the nozzle nearest the center of the road shall overlap the previous by at least one-half the width of the nozzle spray. In any event the construction joint of the pavement shall be treated in both passes of the distributor truck.

Before spreading, the asphalt rejuvenating agent shall be blended with water at the rate of 60% rejuvenating agent and 40% water, by volume or as specified by the manufacturer. The combined mixture of asphalt rejuvenating agent and water shall be spread at the rate of 0.05 to 0.10 gallons per square yard, or as approved by the Construction Engineer following field testing. Where more than one application is to be made, succeeding applications shall be made as soon as penetration of the preceding application has been completed and approval is granted for additional applications by the Construction Engineer. Grades or super elevations of surfaces that may cause excessive runoff in the opinion of the Construction Engineer shall have the required amounts applied in two (2) or more applications as directed. Said treatment shall be uniformly applied by a method acceptable to the Construction Engineer.

Care should be taken during all rejuvenator applications to not get excessive material on the curb and gutter. Additional cleaning may be required if this occurs at the contractor's expense. After the rejuvenating emulsion has penetrated, a coating of sand shall be applied to the surface in sufficient amount to protect the traveling public as required by the Construction Engineer. The Contractor shall furnish a quality inspection report showing the source and manufacturer of asphalt rejuvenating agent. When directed by the Construction Engineer, the Contractor shall take representative samples of material for testing.



**Street Sweeping:** The Contractor shall be responsible for sweeping and cleaning of the streets prior to and after treatment. Prior to treatment, the street will be cleaned of all standing water, dirt, leaves, foreign materials, etc. This work shall be accomplished by hand brooming, power blowing or other methods approved by the Construction Engineer. If hand cleaning is not sufficient, then a self-propelled street sweeper shall be used. All sand used during the treatment must be removed no later than forty-eight (48) hours after treatment of the street. This shall be accomplished by a combination of hand and mechanical sweeping. All turnouts, cul-de-sacs, etc. must be cleaned and free of any material that would interfere with the treatment. All debris generated by sweeping shall be picked up and disposed of by the contractor. Street sweeping shall be included in the price bid per square yard for asphalt rejuvenating agent. If after sand is swept and it is determined that a hazardous condition exists on the roadway, the Contractor must apply additional sand and sweep no later than twenty-four (24) hours following reapplication. No additional compensation will be allowed for reapplications and removal of sand.

**Traffic Control and Safety:** The Contractor shall schedule operations and carry out the work in a manner consistent with the traffic control specifications. Treated portions of the pavement surfaces shall be kept closed and free from traffic until penetration has become complete and the area is suitable for traffic. Cure time shall be no longer than 90 minutes. The Contractor shall notify the Construction Engineer the schedule of treatment each day.

**Spreading/Ordering of Sand or Screenings:** The Contractor will furnish and apply sand or lime screenings as required by the Construction Engineer if the street is open to traffic. The contractor shall furnish all equipment, tools, labor and incidentals necessary to perform the sanding operation in accordance with this contract. Spreading shall consist of applying free flowing sharp sand, FA2 or limestone screenings to insure even distribution of the sand or screenings to be worked into any voids in the payment surface as directed by Construction Engineer. A twin spinner, rubber belt feed system aggregate distributor shall be used for uniform application. The aggregate distributor shall apply sand or screenings at a rate of 1-4 pounds per square yard.

Aggregate distributor must be able to carry enough aggregate to cover an applied load of the rejuvenating agent, at least (9) nine tons. Repeated sanding may be required on some areas of pavement and contractor must be available on an as needed basis to provide the required sanding.

## **METHOD OF MEASUREMENT**

Asphalt Rejuvenator shall be measured by the Square Yard acceptably installed.

## **BASIS OF PAYMENT**

Asphalt rejuvenator, measured as provided above, will be paid for at the contract unit price, which shall be full compensation for furnishing all materials, equipment, sweeping, labor, testing and incidentals to complete the work as specified.

## **BID ITEM 90003- GRAVEL SHOULDERING**

### **DESCRIPTION**

The work under this item shall consist of installing a minimum 3 foot wide gravel shoulder along the sides of the existing roadway. E. Broadway Service Rd and Milwaukee St (east of Thompson Dr) are the two locations in this project needing gravel shouldering. The shoulder shall meet the proposed pavement grade and be flush with the asphalt pavement once completely compacted, then taper off to match existing grade. Provide aggregate shoulder material compacted to a 4:1 or flatter cross slope from the surface of the pavement edge. After final compaction, shape the shoulders to remove all longitudinal ridges to ensure proper drainage. The work shall consist of grading, installing, compacting, watering as necessary, cleaning adjacent pavement after the gravel shoulder is install.

## MATERIALS

Gravel shouldering shall consist of Crushed Aggregate Base Course Gradation 2 or 3.

## MEASUREMENT AND PAYMENT

Gravel Shouldering shall be measured by the lineal foot installed.

## BASIS OF PAYMENT

Gravel Shouldering shall be paid based on price to properly install a three foot gravel shoulder along both sides of the street as described under this bid item. Payment shall be full compensation for furnishing, placing, watering, drying, compacting, and maintaining the gravel shouldering; for preparing foundation; for stockpiling, if required; and for furnishing all labor, tools, equipment and incidentals necessary to complete the work, without damaging the new asphaltic pavement and/or the pavement markings.

## BID ITEM 90004 - HIGH FRICTION COLORED SURFACE-GREEN

### DESCRIPTION

This work consists of furnishing and applying a high friction surfacing system in accordance with this Section and in conformity with the lines and details shown on the plans. The field installed system shall consist of a Methyl Methacrylate (MMA) resin system that is used for pavement area markings and anti-skid surfacing to provide high friction resistance and the desired color. The color of the High Friction Colored Surface shall be Bike Lane Green.

The manufacturer's technical representative shall come to the construction site to train Department and Contractor personnel prior to surface treatment and shall be available during application as necessary or contractor shall provide documentation from manufacturer's representative endorsing contractor as qualified to install the material.

### MATERIALS

**General:** Use Color-Safe Pavement Marking with Anti-Skid Surface by Transpo Industries or an approved equal. Use a MMA based resin system capable of retaining an aggregate topping under vehicular traffic conditions. Install High Friction Colored Surface in accordance with manufactures specifications.

The MMA based resin system shall comply with chromaticity requirements in accordance with MUTCD Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes.

**MMA Based Resin System:** The MMA based resin system shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Tensile Strength @ 7 days, psi, minimum	1000	ASTM D 638
Hardness, Shore D, minimum	80	ASTM D 2240
Gel Time, minutes, minimum	10	ASTM D 2471
Cure Rate, hours, maximum	3	Film@ 75°F
Water Absorption @ 24 hours, max.	0.25%	ASTM D 570

**Aggregate:** The aggregate shall be high friction crushed Bauxite, Granite, or gravel. The aggregate will be delivered to the construction site in clearly labeled bags or sacks. The aggregate shall be clean, dry and free from foreign matter. The aggregate shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Aggregate Abrasion Value, Aggregate Grading,	maximum 20	LA Abrasion

No 6 Sieve Size, minimum passing, 95%  
No 16 Sieve Size, maximum passing, 5%

Aggregate Color Green

**Certification:** Finished surface shall have a minimum 60 FN40R in accordance with ASTM E274) of aggregate bonded to a vehicular bearing surface using the modified epoxy binder.

## CONSTRUCTION METHODS

**General:** Apply High Friction Colored Surface in accordance with manufactures specifications.

**Preparation:** Prepare surfaces so that they are clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the epoxy binder material and existing surfaces. The manufacturer's representative will determine if all surfaces have been adequately cleaned.

Protect utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location against the application of the surface treatment materials. Cover and protect all existing pavement markings that are adjacent to the application surfaces as directed by the Engineer. Remove by grinding any pavement markings that conflict with the surface application and thoroughly sweep or vacuum the surface clean prior to the epoxy binder application.

Pre-treat joints and cracks greater than 1/4 inches in width and depth with the mixed epoxy specified herein or by using an alternative procedure proposed by the manufacturer and agreed upon by the Engineer. Proceed with the epoxy binder and aggregate topping installation once the epoxy, in the pre-treated areas, has gelled or once the alternative procedure has been accomplished.

For applications on new pavements, install the high friction epoxy binder and aggregate topping a minimum of 20 days after the placement of the underlying and adjacent pavement.

**Mixing and Application of MMA based resin system and Aggregate Wearing Course:** Utilize one of the following methods for the application of the MMA based resin system, as applicable.

1) **Hand mixing and application:** Proportion the MMA based resin system as recommended by the manufacturer, and mix using a low speed, high torque drill fitted with a helical stirrer. Hand-apply the mixed components onto a prepared pavement surface at a thickness recommended by the manufacturer. Uniformly spread hand-applied base binder onto the substrate surface by means of a serrated edge squeegee.

2) **Mechanical mixing and application:** Apply the MMA based resin system material by a truck mounted application machine onto the pavement section to be treated in varying widths at a uniform application thickness. Proceed with operations in such a manner that will not allow the MMA based resin system material to separate in the mixing lines, cure, dry, or otherwise impair retention bonding of the high friction surfacing aggregate. Apply the mixed components mechanically onto the prepared pavement surface with a uniform thickness of 50 to 100 mils. Immediately, mechanically apply the high friction surfacing aggregate in a uniform, continuous manner.

For either of the above methods, do not use vibratory or impact type compaction on the aggregate after placement. Use only lightweight rollers to seat the aggregate topping without crushing the aggregate. Complete coverage of the "wet" MMA based resin system material with aggregate is necessary to achieve a uniform surface. No exposed wet spots shall be visible once the aggregate is placed.

**Curing:** Allow the high friction aggregate topped MMA based resin system to cure in accordance with manufacturer recommendations. Protect treated surfaces from traffic and environmental effects until the area has cured.

**Removal of Excess Aggregate:** Remove the excess aggregate by hand brooms, mechanical sweeping, or vacuum sweeping before opening to traffic. Excess aggregate can be reused on the following day's installation, provided the aggregate is clean, uncontaminated, and dry.

The Engineer may require additional mechanical or vacuum sweeping as necessary after the system fully cures and the treated surface is open to traffic.

**PERFORMANCE REQUIREMENTS**

**Raveling and Delamination:** Remove and replace high friction colored surface treatment that ravel, delaminates, or wears off within 90 days after placement, unless approved to remain in place by the Engineer. The limits of removal and replacement shall be approved by the Engineer. The replaced high friction colored surface treatment shall meet the requirements of this sub-article.

**Warranty:** The MMA based resin system material shall be installed per plans and specification. The Engineer will notify the Contractor within 48 hours of installation regarding any of the MMA based resin system material that is installed not to specification or to the satisfaction of the Engineer. Non conforming MMA based resin system material shall be removed at no charge to the City and replaced with conforming product.

The warranty period in reference to the following points is to be 3 years from date of installation. Warranty of the following items shall be submitted in writing by the Contractor or his installer prior to the pre-construction meeting.

- The MMA based resin system material will maintain its original color in the surface area throughout the 'warranty period' with the exception of natural weathering, tire and dirt deposits and abnormal markings applied after installation.
- Friction will achieve a minimum BPN of 60 in accordance with ASTM E-303
- The MMA based resin system material will maintain its skid resistance qualities in 100% of its surface area to never fall below a BPN of 60 during the 'warranty period'.
- With the exception of structural cracking or excessive movement of the surface beneath the two-part modified epoxy material will not be subject to excessive cracking in its surface.

**METHOD OF MEASUREMENT**

High Friction Colored surface will be measured in square foot, completed and accepted. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any public utility appurtenances within the area.

**BASIS OF PAYMENT**

Payment for this work, measured as provided above, will be made under: High Friction Colored Surface at the contract unit price per square foot, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work as specified, including any re-application or repair required under the Performance Requirements and Warranty as provided herein.

**RESURFACING 2019 – PAVEMENT PULVERIZING & PAVING (Contract 8319)**

**STREET**

**LIMIT**

**LIMIT**

**PULVERIZED STREETS**

S STOUGHTON RD SERVICE RD  
 E BROADWAY SERVICE RD  
 AGRICULTURE DR  
 SEIFERTH RD  
 TOMPKINS DR  
 PROGRESS RD  
 ADVANCE RD

BUCKEYE RD  
 FEMRITE DR  
 FEMRITE DR  
 PFLAUM RD  
 S STOUGHTON RD SERVICE RD  
 N END  
 PFLAUM RD

PFLAUM RD  
 E BROADWAY  
 565 FT S OF FEMRITE DR  
 TOMPKINS DR  
 PROGRESS RD  
 1170 FT S OF TOMPKINS DR  
 PROGRESS RD

VIOLET CIR  
VIOLET LN  
HAMLET PL  
DAFFODIL LN  
FLINT LN  
CHARLEEN LN  
LOIS LN  
WALKER DR  
RALPH CIR  
BEEHNER CIR  
PEBBLE BEACH DR  
VALLEY RD  
SHADY WOOD WAY  
QUIET LN  
KALAS ST  
AMMERMAN CIR  
BEA CIR  
QUARTERDECK DR  
MASTHEAD DR  
MASTHEAD DR  
LANDFALL DR  
KEELSON DR  
PFLAUM RD  
VOND RON RD  
E OAKBROOK CIR  
W OAKBROOK CIR  
OAKBROOK CIR  
CROSSBRIDGE CT  
SANDY CT  
STONEHEDGE CT  
OAK GLEN CT  
N YELLOWSTONE DR  
MILWAUKEE ST

**MILLED STREETS (FULL WIDTH)**

MILWAUKEE ST  
N. MILLS ST  
EDGEWOOD AVE  
GRANT ST

**SURFACNG PAVING ONLY (SUBDIVISIONS)**

FREY STREET  
SAWYER TERRACE  
MEADOWLANDS PHASES 9 & 10

HAMLET PL  
HAMLET PL  
SWANTON RD  
MILWAUKEE ST  
ACEWOOD BLVD  
WALKER DR  
WALKER DR  
MILWAUKEE ST  
MEADOWLARK DR  
MEADOWLARK DR  
283 FT N OF PINEHURST CIR  
RETANA DR  
VALLEY RD  
SHADY WOOD WAY  
DROSTER DR  
KALAS ST  
KALAS ST  
INNER DR  
ISLAND DR  
NAUTILUS DR  
NAUTILUS DR  
INNER DR  
AGRICULTURE DR  
E BUCKEYE RD  
W OAKBROOK CIR  
N HIGH POINT RD  
E OAKBROOK CIR  
E OAKBROOK CIR  
W OAKBROOK CIR  
W OAKBROOK CIR  
W OAKBROOK CIR  
INNER DR  
THOMPSON DR

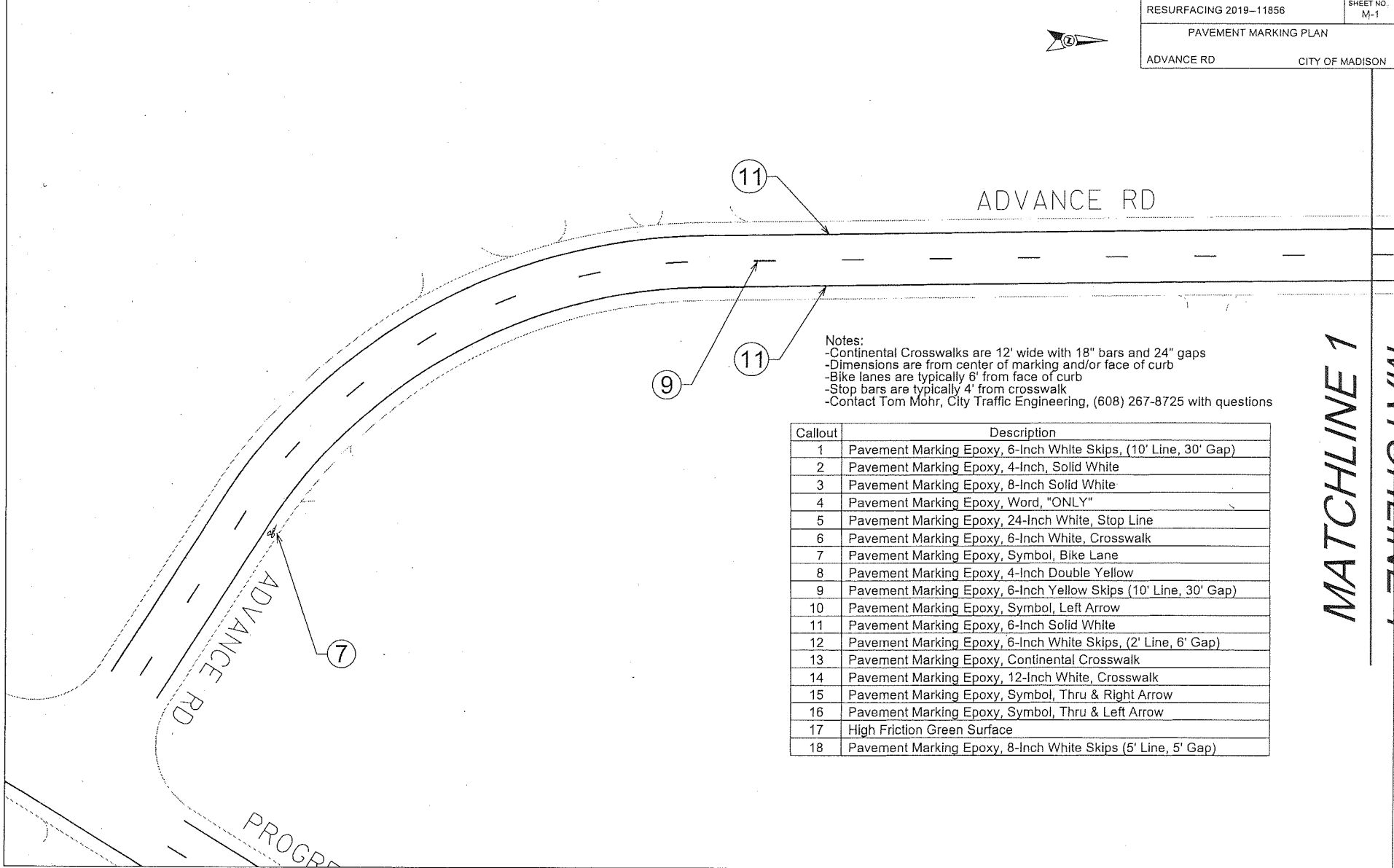
N WALBRIDGE AVE  
REGENT ST  
MONROE ST  
MONROE ST

N END  
DAFFODIL LN  
DAFFODIL LN  
HAMLET PL  
MEADOWLARK DR  
FLINT LN  
MEADOWLARK DR  
FLINT LN  
E END  
E END  
SAUK RIDGE TRL  
KEVINS WAY  
QUIET LN  
VALLEY RD  
S THOMPSON DR  
S END  
N END  
MASTHEAD DR  
NAUTILUS DR  
QUARTERDECK DR  
QUARTERDECK DR  
QUARTERDECK DR  
VOND RON DR  
PFLAUM RD  
OAKBROOK CIR  
OAKBROOK CIR  
TREE LN  
N END  
N END  
S END  
S END  
EVERGLADE DR  
I-90 BRIDGE

THOMPSON DR  
NORTH OF SPRING ST  
FOX AVE  
DRAKE ST

2019 RESURFACING - SUBDIVISIONS ESTIMATE

SUBDIVISION NAME	STREET	LIMITS		HMA MIX	SURFACE PVMT (IN)	SURFACE AREA (SY)	WEDGE CUT GRINDING AREAS (SY)	HMA (TON)	TACK COAT (GAL)
		FROM	TO						
FREY STREET & SAWYER TERRACE PROJECT # 11722, CONTRACT # 8114	Frey Street	N Segoe Rd	Sawyer Ter	4 LT 58-28 S	2"	2543	100	305	125
	Sawyer Terrace	Frey St	N Segoe Rd	4 LT 58-28 S	2"	2680	100	325	135
SUBDIVISION TOTAL						5223	200	630	260
MEADOWLANDS PHASE 9 PROJECT # 11506 CONTRACT # 7861	Littlemore Drive	Breezy Grass Way	Field Flower Way	4 LT 58-28 S	1.75"	2865	50	300	145
MEADOWLANDS PHASE 10 PROJECT # 11507 CONTRACT # 7862	Field Flower Way	Breezy Grass Way	Littlemore Drive	4 LT 58-28 S	1.75"	1380	50	150	70
GRAND TOTAL =						9468	300	1080	475



Notes:  
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 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

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 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PAVEMENT MARKING PLAN

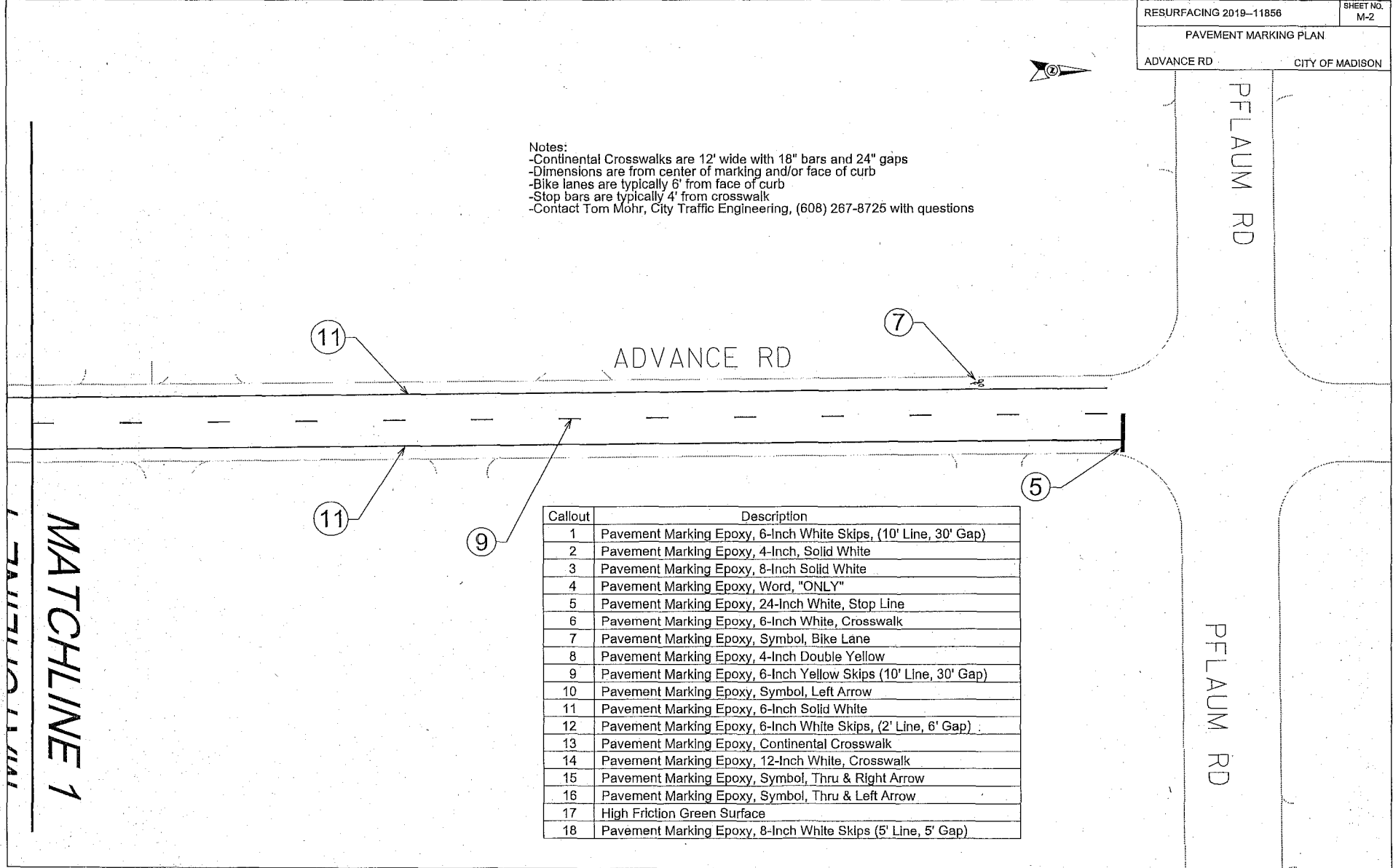
ADVANCE RD CITY OF MADISON



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PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

MATCHLINE 1  
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
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14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
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PAVEMENT MARKING PLAN

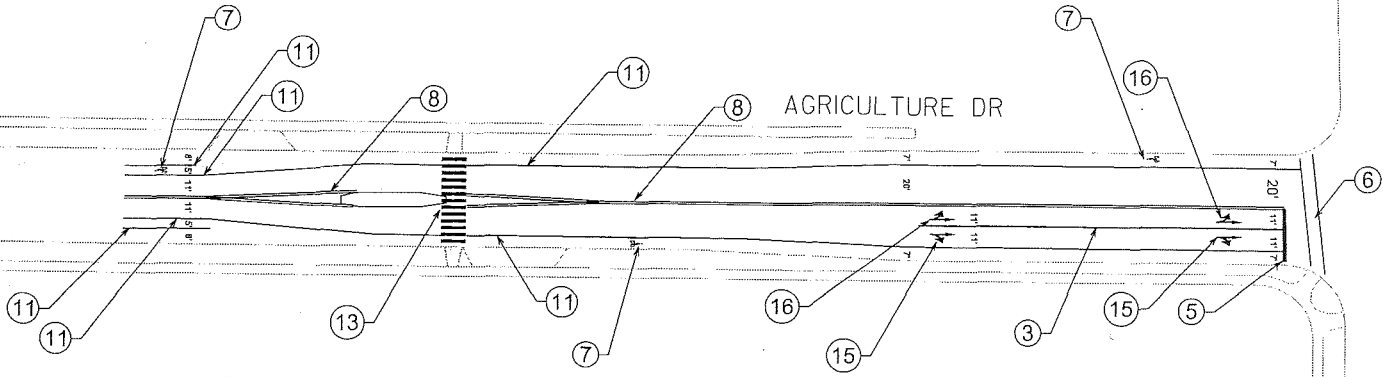
AGRICULTURE DR

CITY OF MADISON



FEMRITE DR

AGRICULTURE DR



Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
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Notes:  
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 -Stop bars are typically 4' from crosswalk  
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PLOT SCALE:

PLOT NAME:

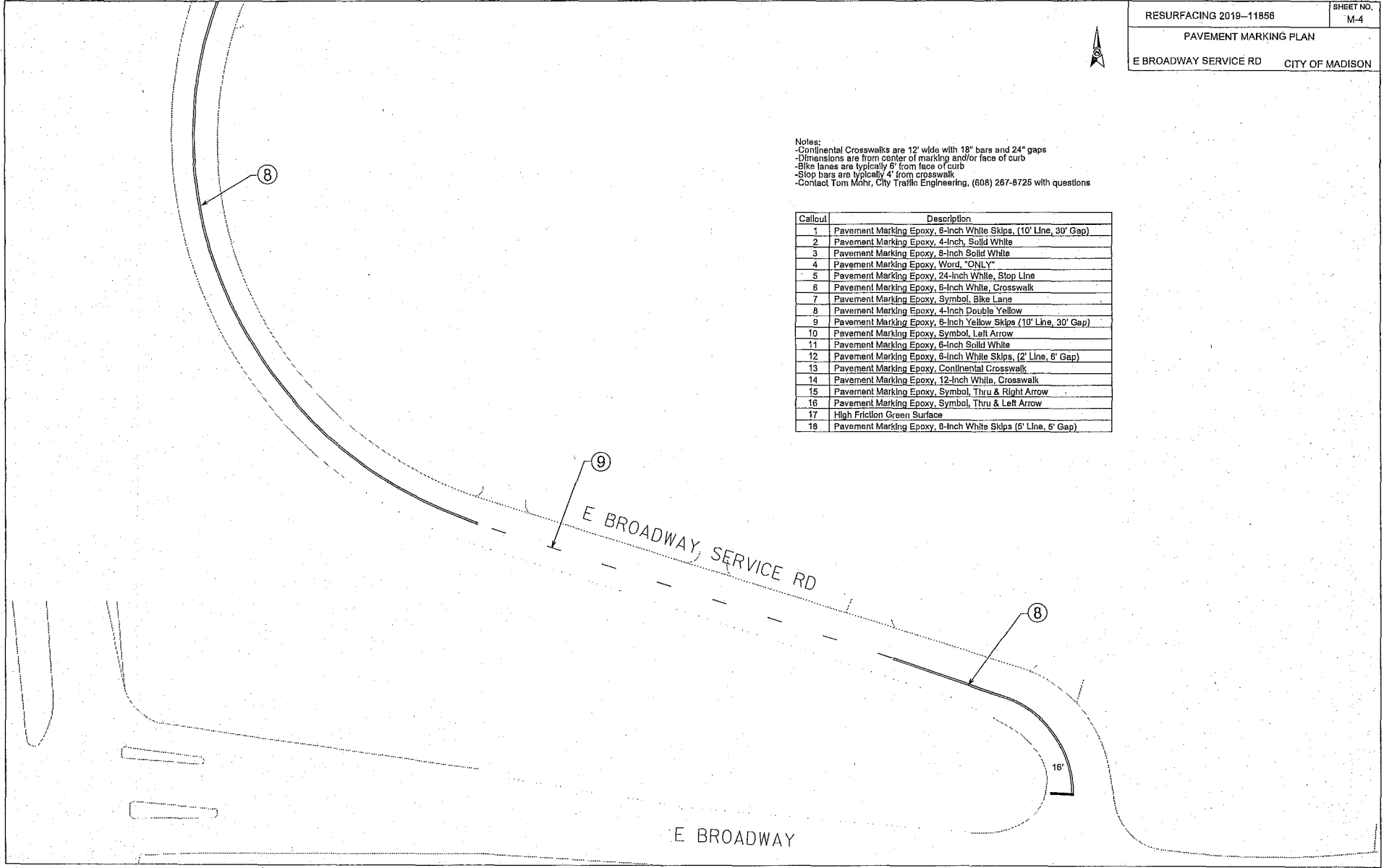
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ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Notes:  
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 -Stop bars are typically 4' from crosswalk  
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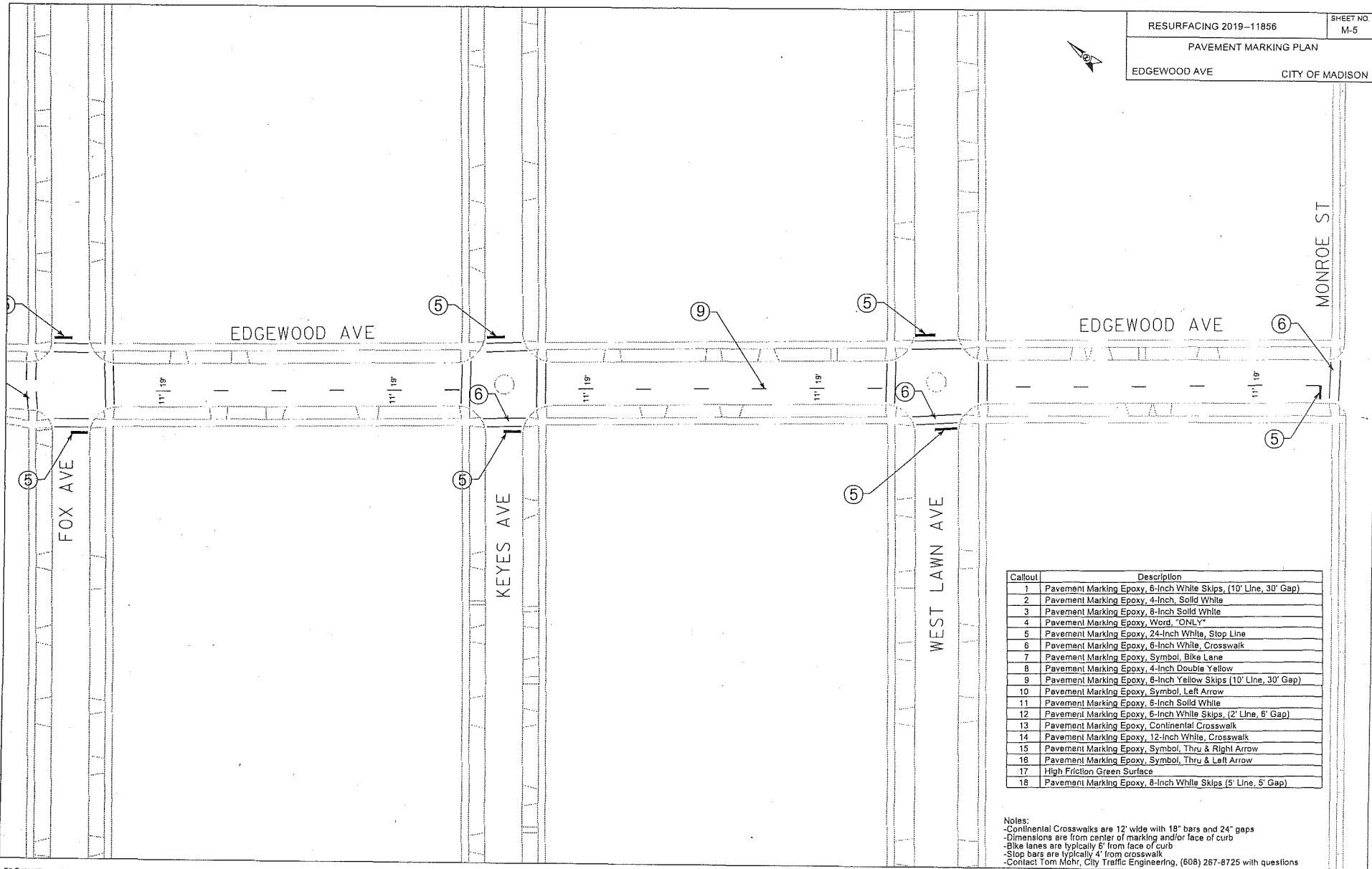
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2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
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16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
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18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 6' Gap)



PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PAVEMENT MARKING PLAN

EDGEWOOD AVE CITY OF MADISON



Callout	Description
1	Pavement Marking Epoxy, 6-inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-inch, Solid White
3	Pavement Marking Epoxy, 8-inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-inch Double Yellow
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10	Pavement Marking Epoxy, Symbol, Left Arrow
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PLOT SCALE:

PLOT NAME:

REV. DATE:

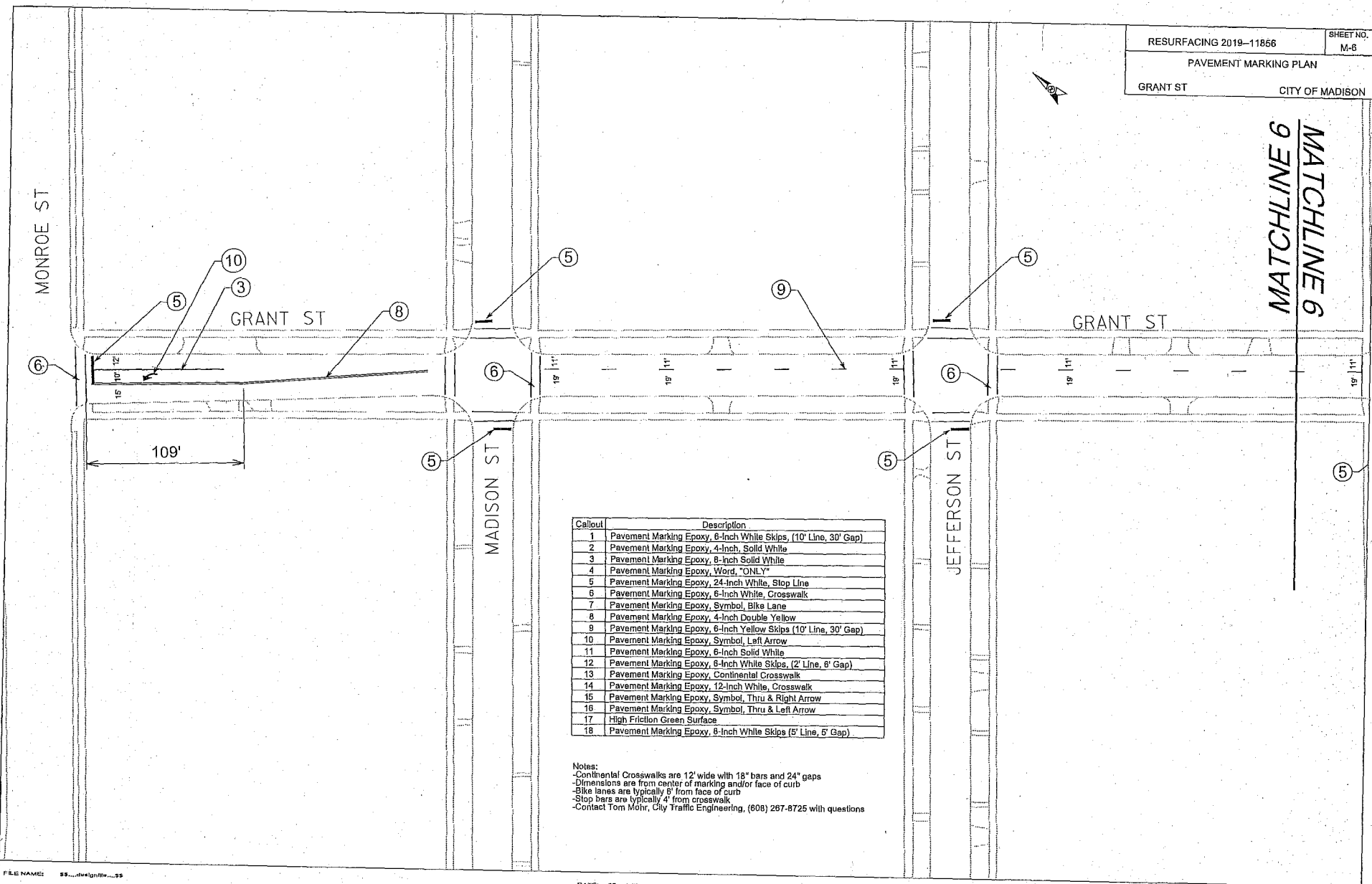
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DATE: 22...plottingdeliv...22



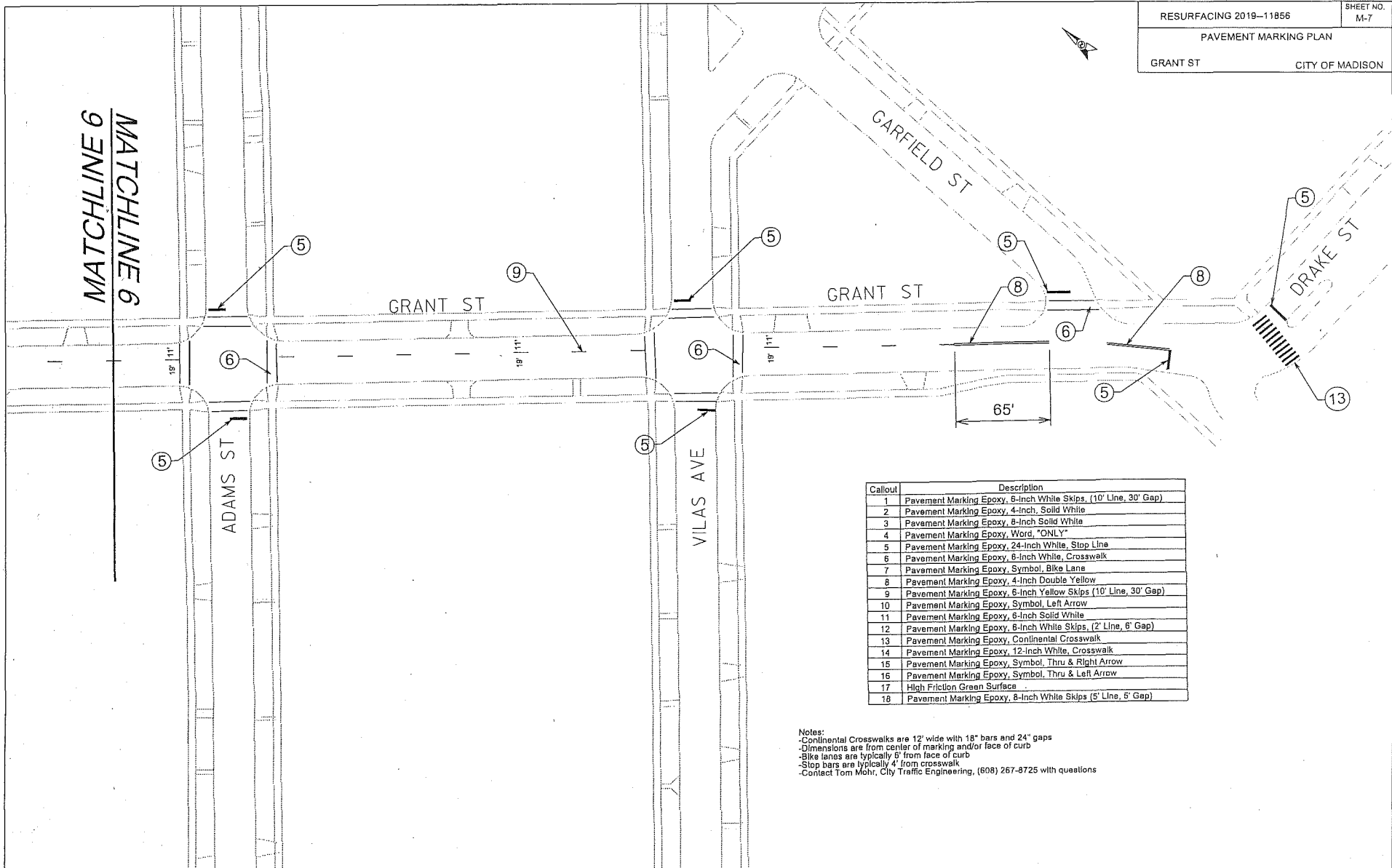
MATCHLINE 6  
MATCHLINE 9



Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
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PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.  
 FILE NAME: 95...drainplan...ss  
 DATE: 95...plottingdw...ss



Callout	Description
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3	Pavement Marking Epoxy, 8-inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-inch White, Stop Line
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17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-inch White Skips (5' Line, 5' Gap)

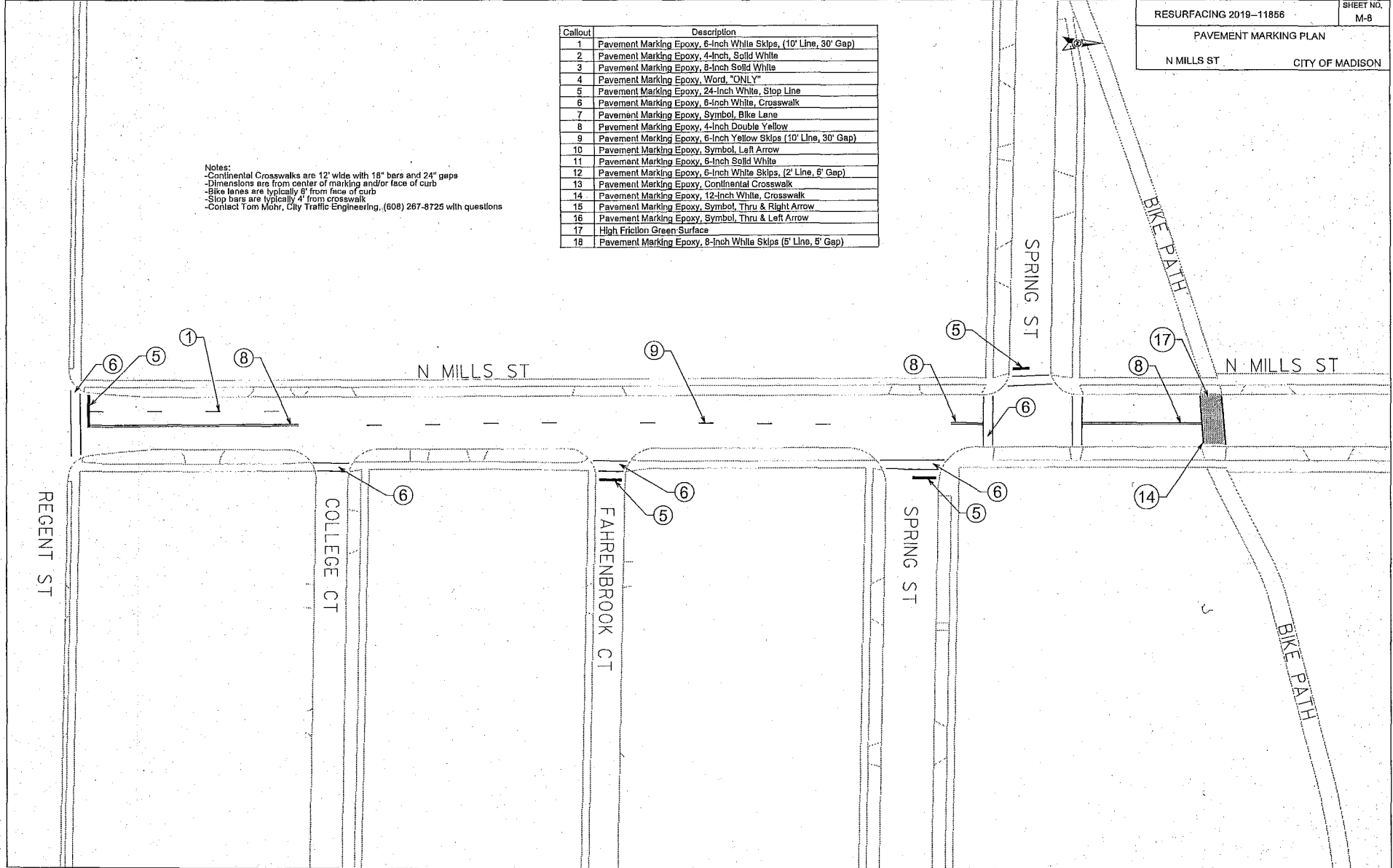
Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.  
 REV. DATE  
 PLOT NAME  
 PLOT SCALE

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
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PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

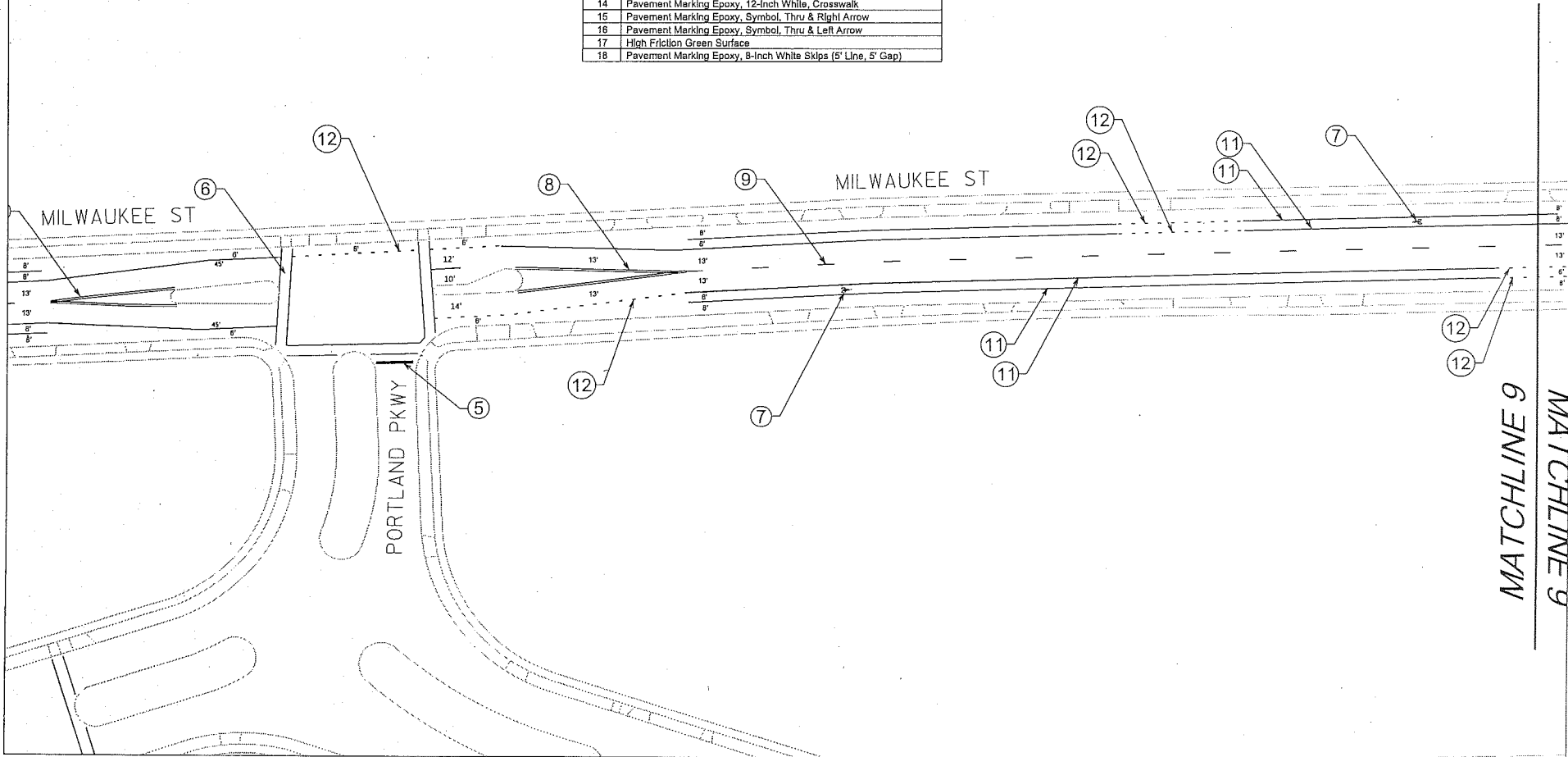




Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 8-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 8' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

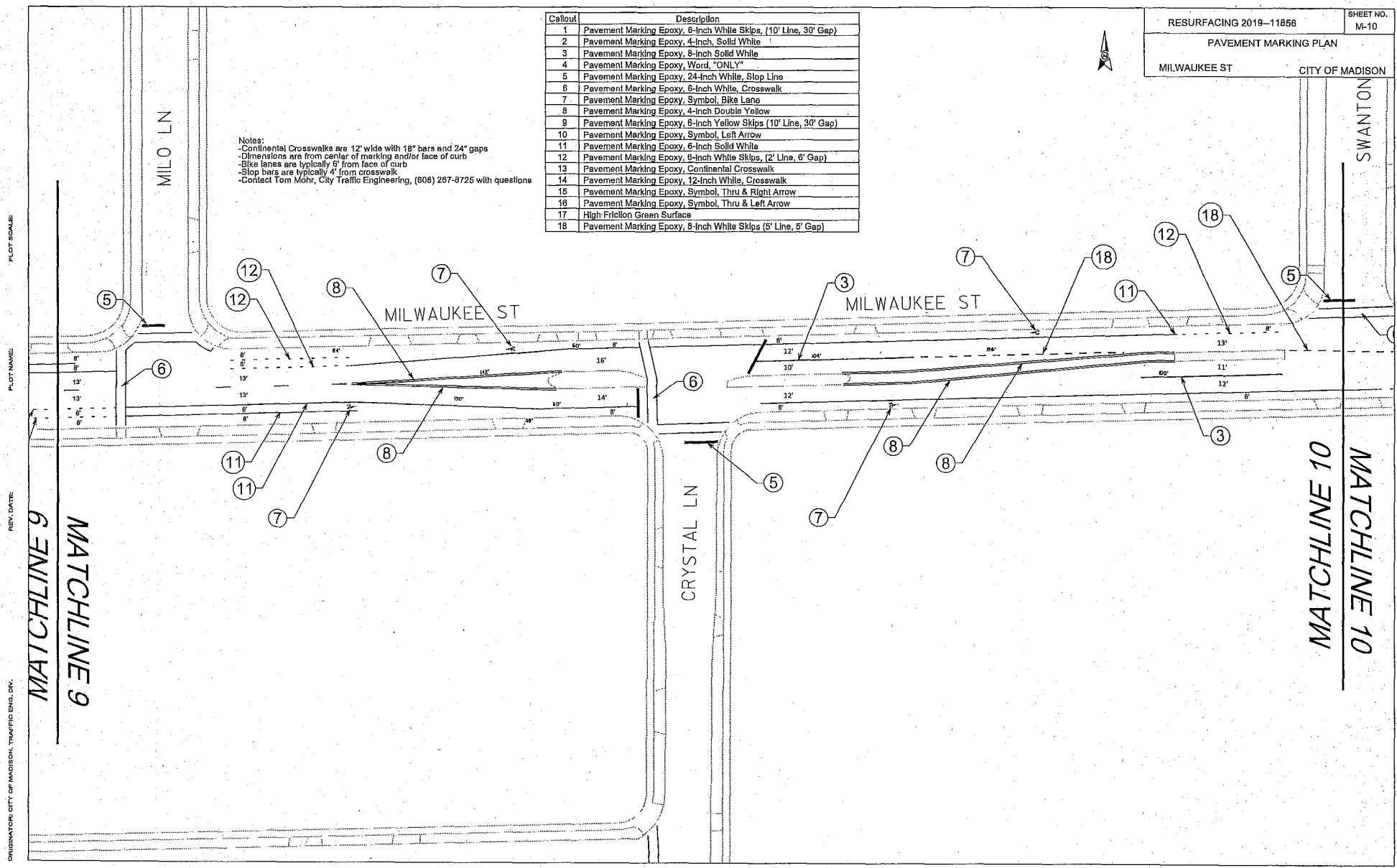
Notes:  
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PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Callout	Description
1	Pavement Marking Epoxy, 8-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 8-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 8-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
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PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

MATCHLINE 9  
 MATCHLINE 10

MATCHLINE 9  
 MATCHLINE 10



RESURFACING 2019-11856

SHEET NO.  
M-11

PAVEMENT MARKING PLAN

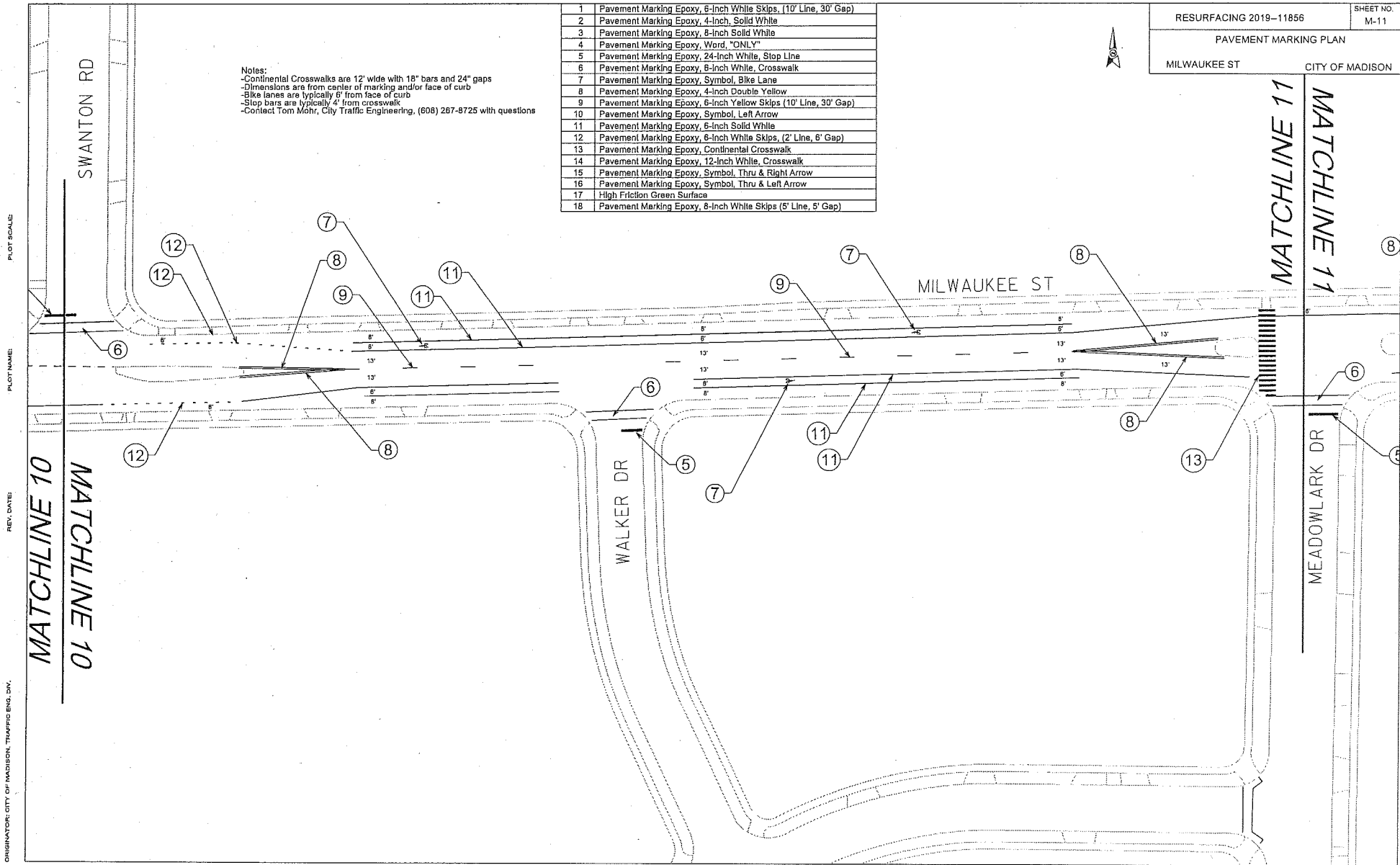
MILWAUKEE ST

CITY OF MADISON



1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

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PLOT SCALE

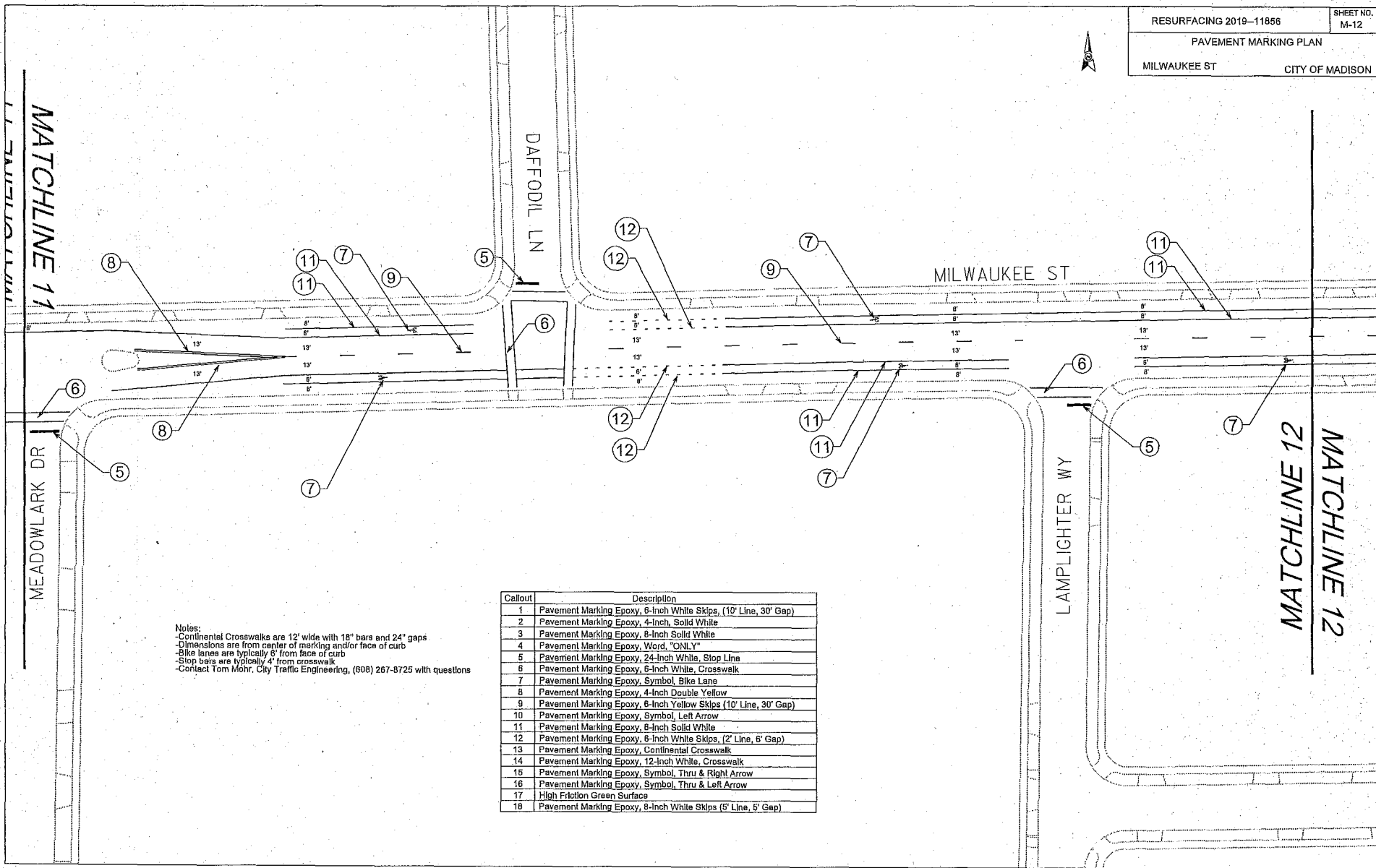
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REV. DATE

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

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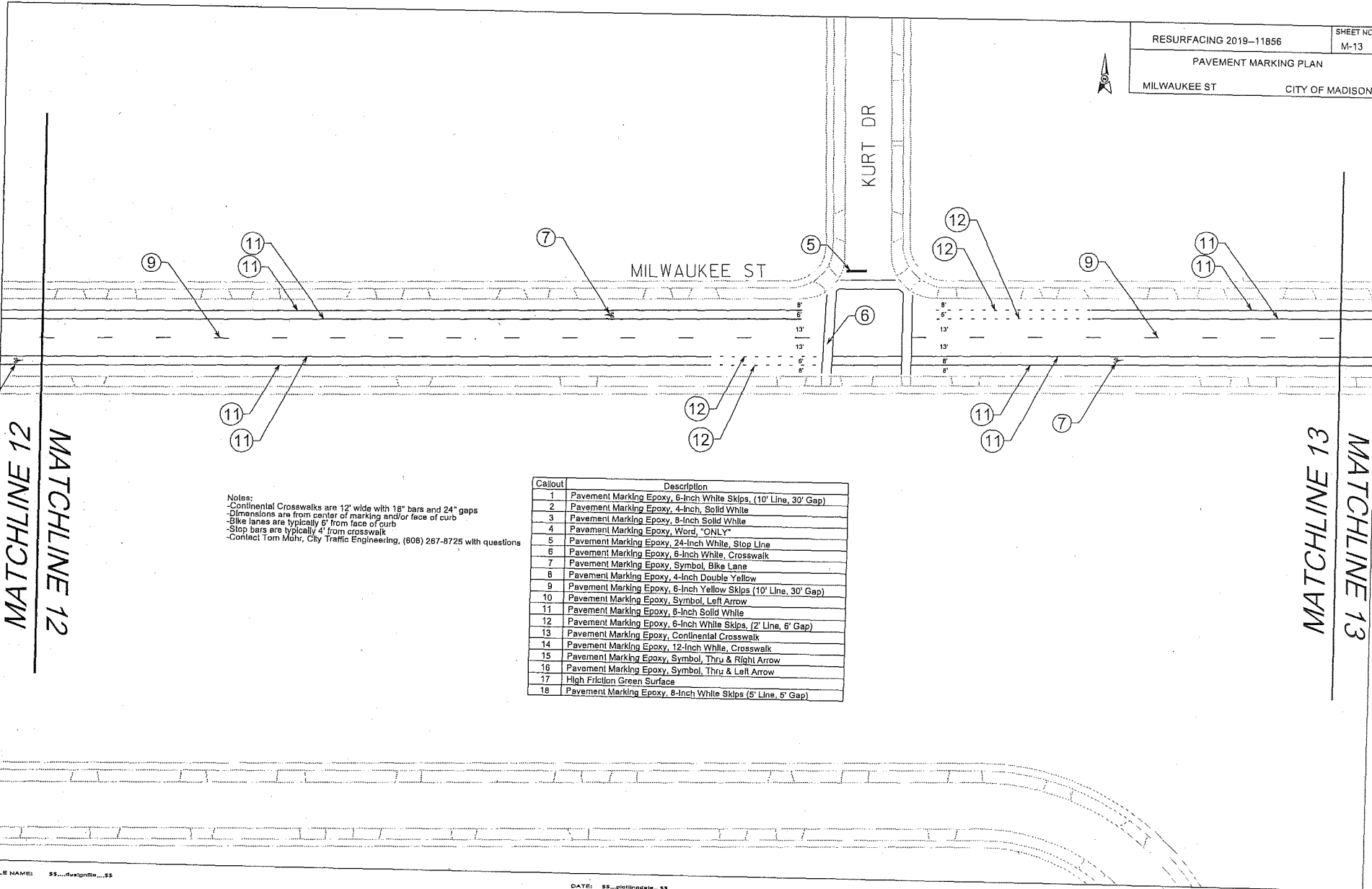
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Notes:  
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 -Stop bars are typically 4' from crosswalk  
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Callout	Description
1	Pavement Marking Epoxy, 6-inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-inch, Solid White
3	Pavement Marking Epoxy, 8-inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-inch White, Stop Line
6	Pavement Marking Epoxy, 8-inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-inch Double Yellow
9	Pavement Marking Epoxy, 8-inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 8-inch Solid White
12	Pavement Marking Epoxy, 8-inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-inch White Skips (5' Line, 5' Gap)

PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENGINEERING



Notes:  
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 -Stop bars are typically 4' from crosswalk  
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 8-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 8-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (6' Line, 5' Gap)

PLOT SCALE:

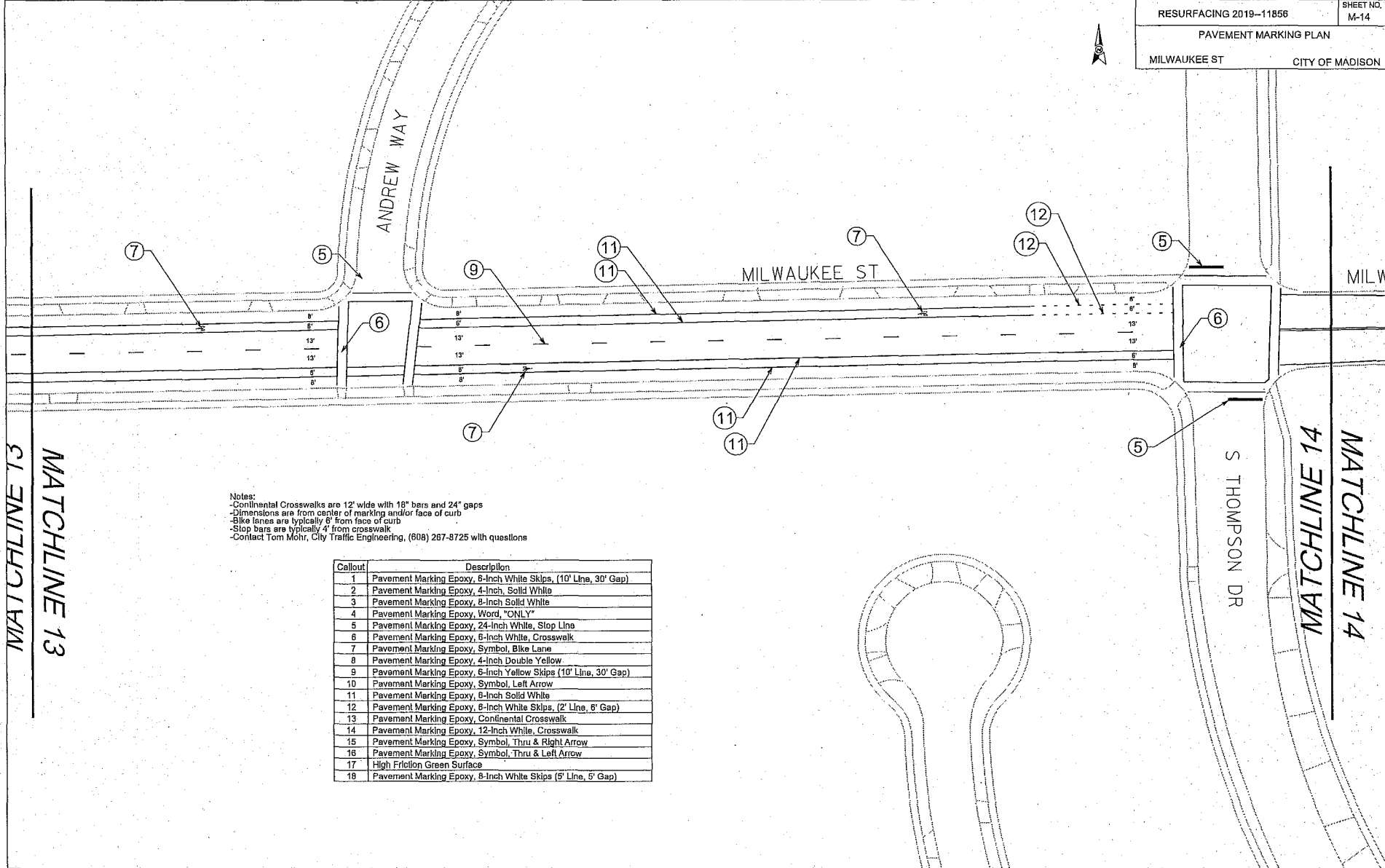
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

MATCHLINE 12  
 MATCHLINE 12

MATCHLINE 13  
 MATCHLINE 13



Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
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13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

PLOT SCALE

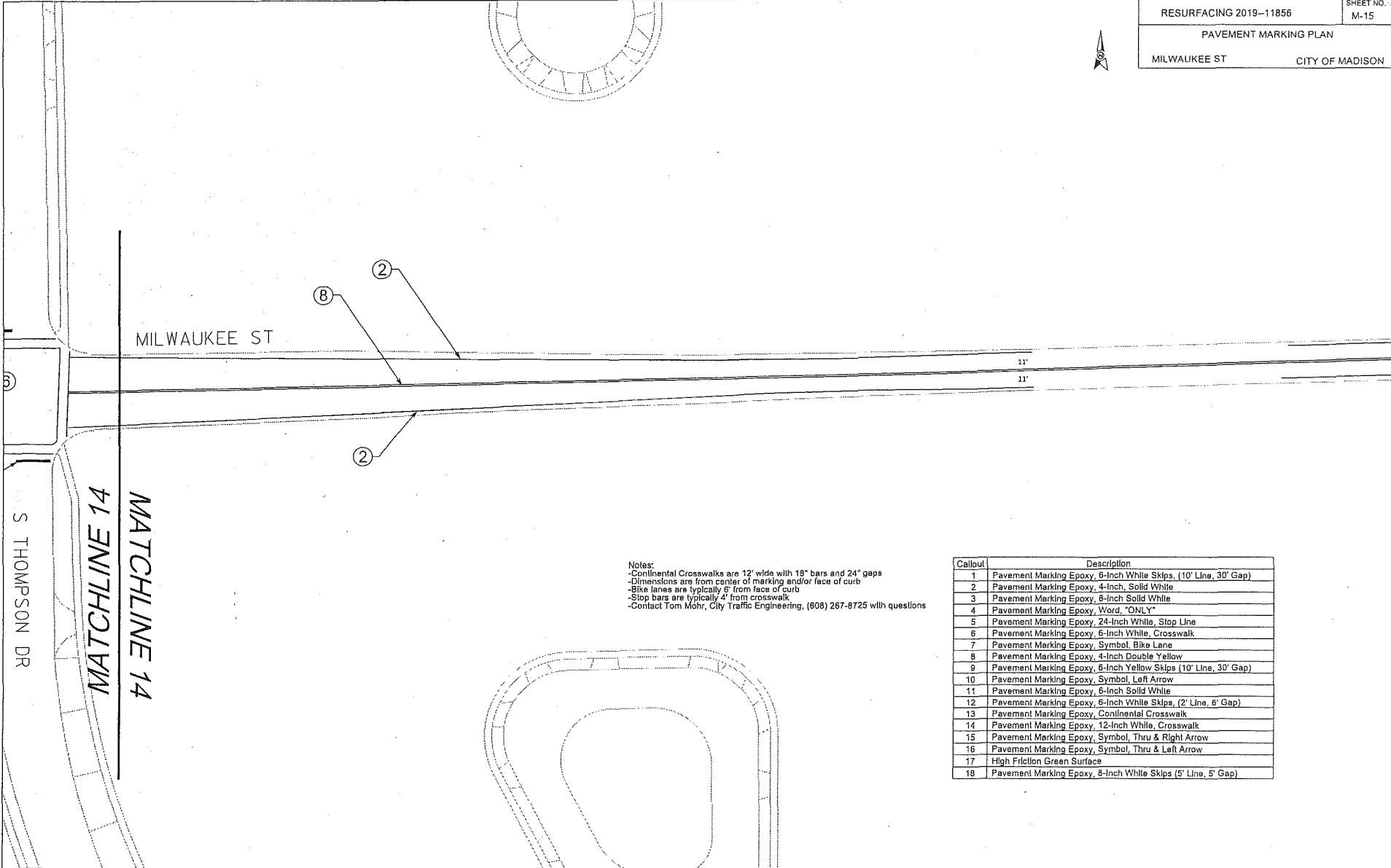
PLOT NAME

REV. DATE

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

MATCHLINE 13  
 31 EN117121.WM

MATCHLINE 14  
 14 EN117121.WM



PLOT SCALE:

PLOT NAME:

REV. DATE:

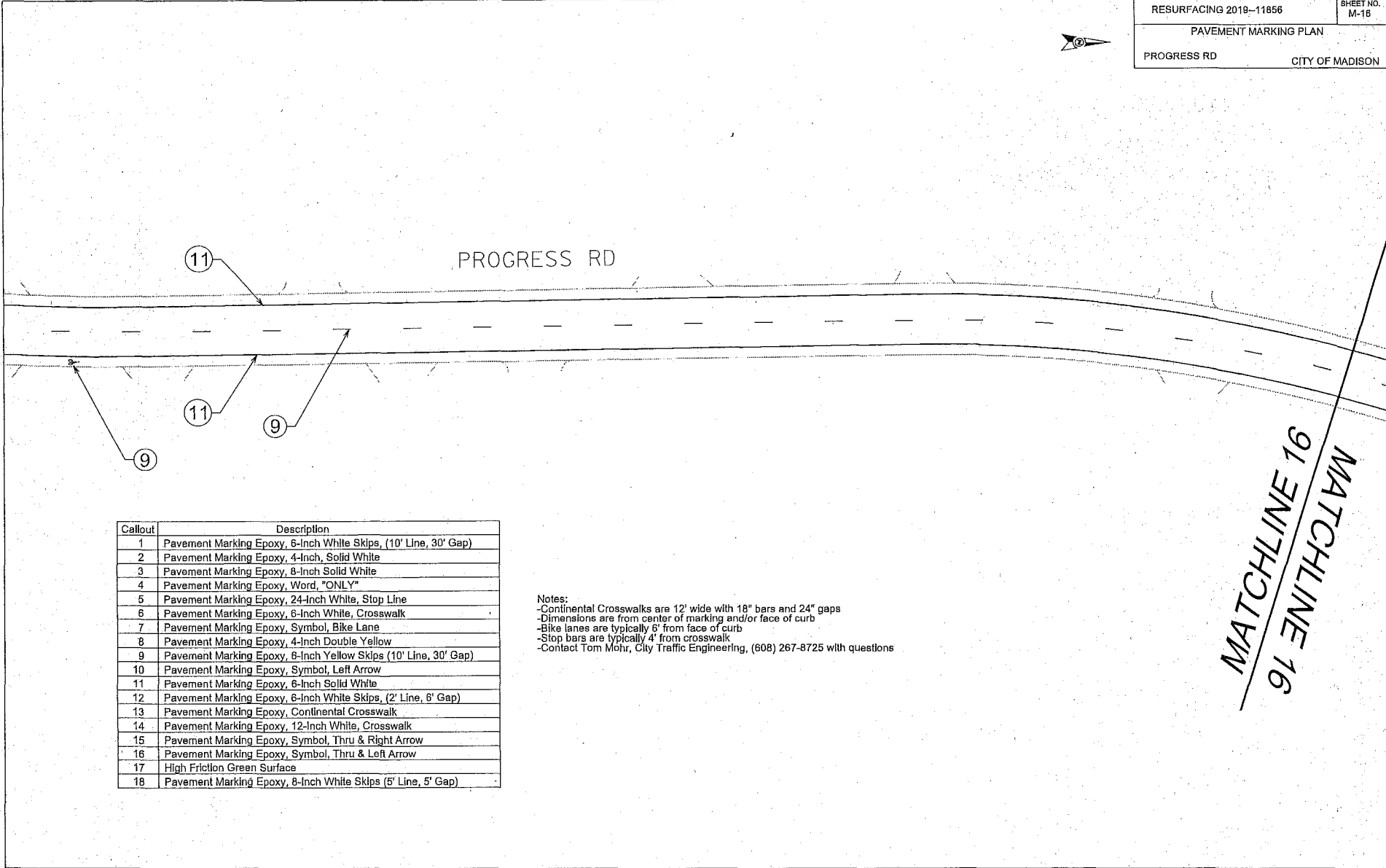
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

FILE NAME: 55...designfile...55

DATE: 55...plottingdate...55

Notes:  
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 8-Inch Yellow Skips (10' Line, 30' Gap)
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11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)



Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

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PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

MATCHLINE 25  
 MATCHLINE 25

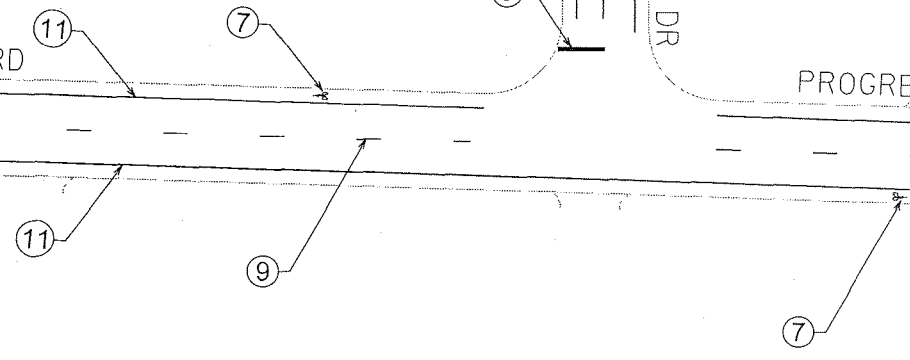
TOMPKINS DR

PROGRESS RD

PROGRESS RD

MATCHLINE 16  
 MATCHLINE 16

MATCHLINE 17  
 MATCHLINE 17

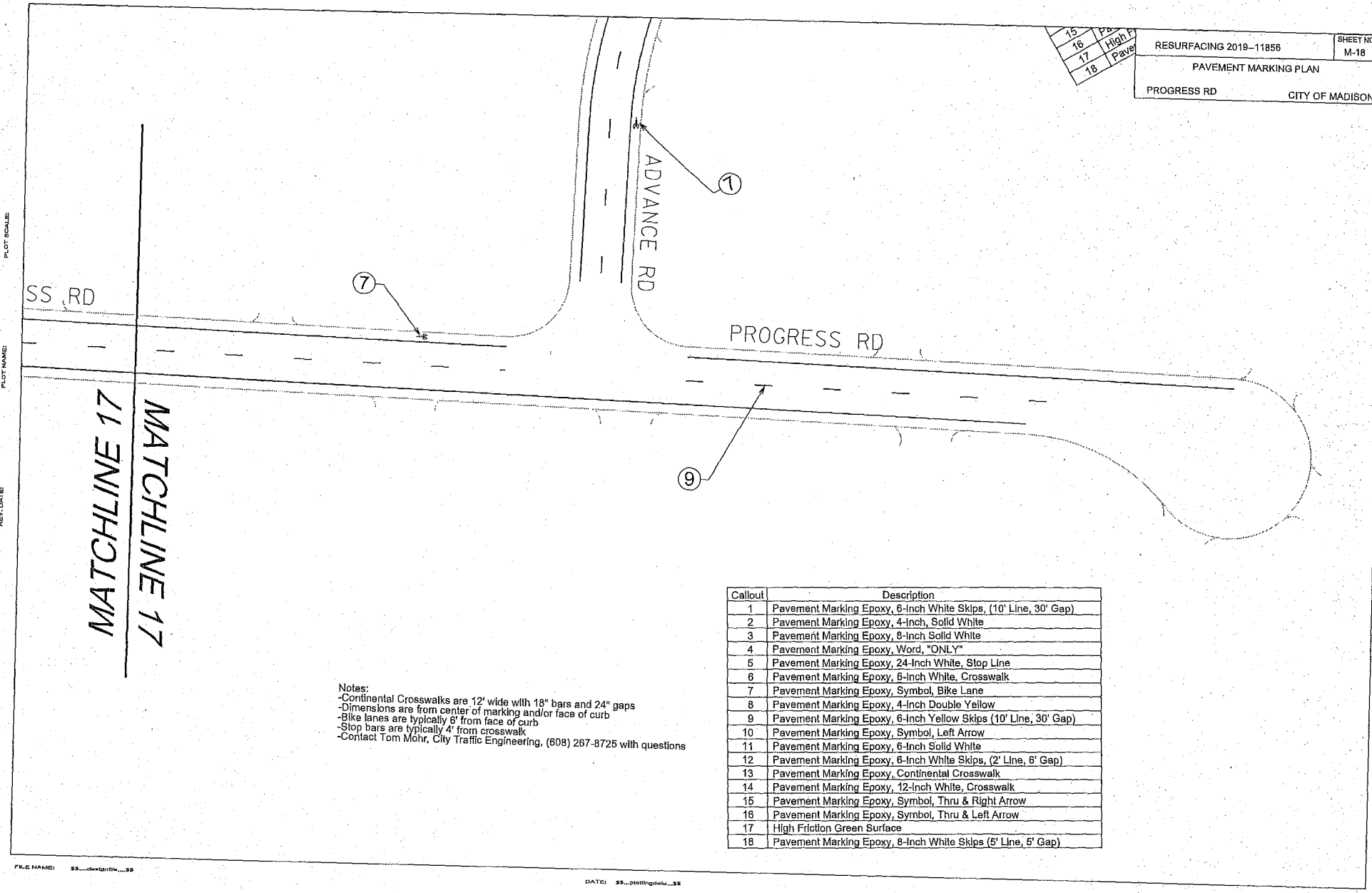


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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 8-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.  
 REV. DATE:  
 PLOT NAME:  
 PLOT SCALE:

15	Pa
16	High Fr
17	Pave
18	



Notes:  
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
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5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
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15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

PLOT SCALE:

PLOT NAME:

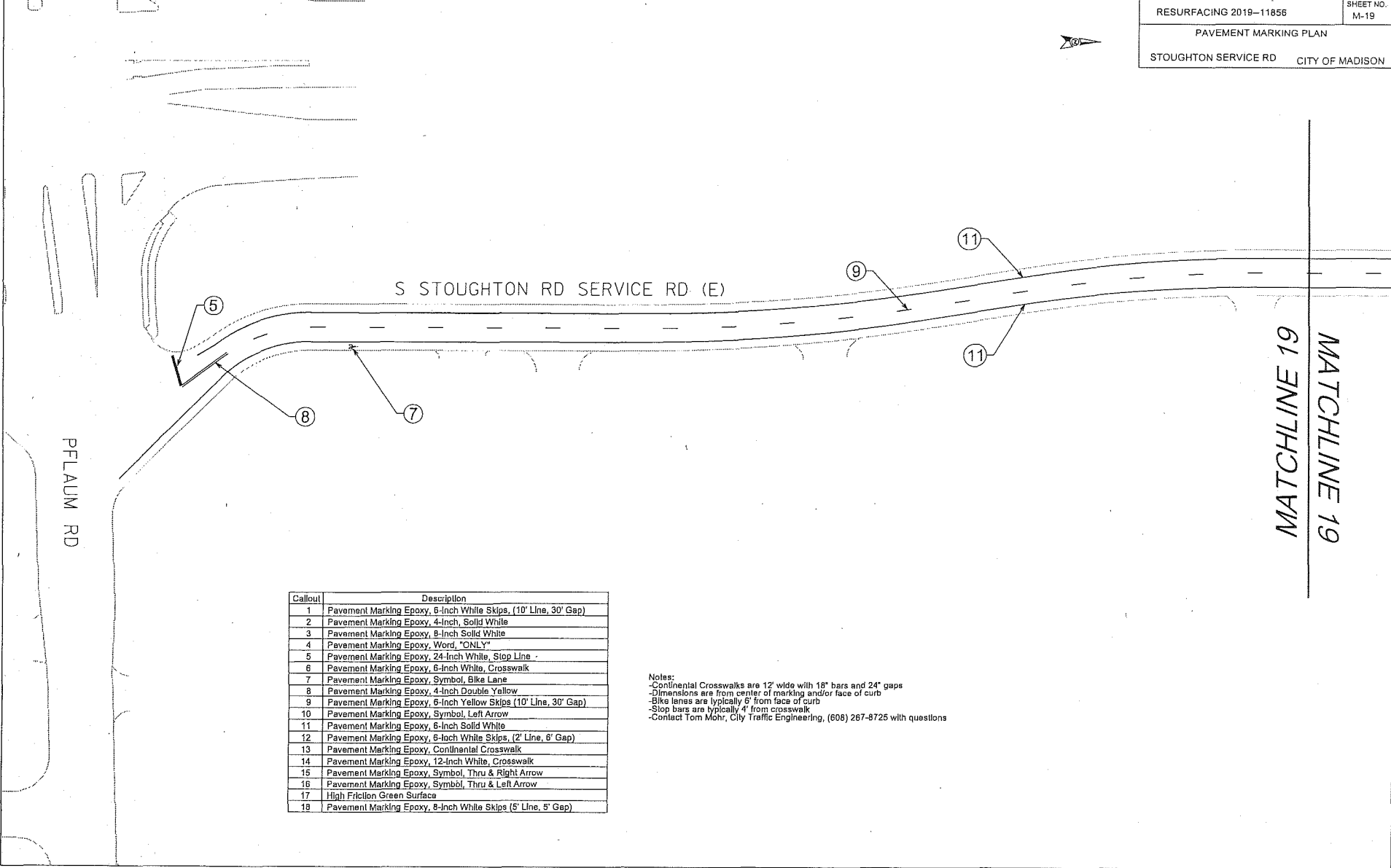
REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

FILE NAME: SS...plottgdetu...SS

DATE: SS...plottgdetu...SS





S STOUGHTON RD SERVICE RD (E)

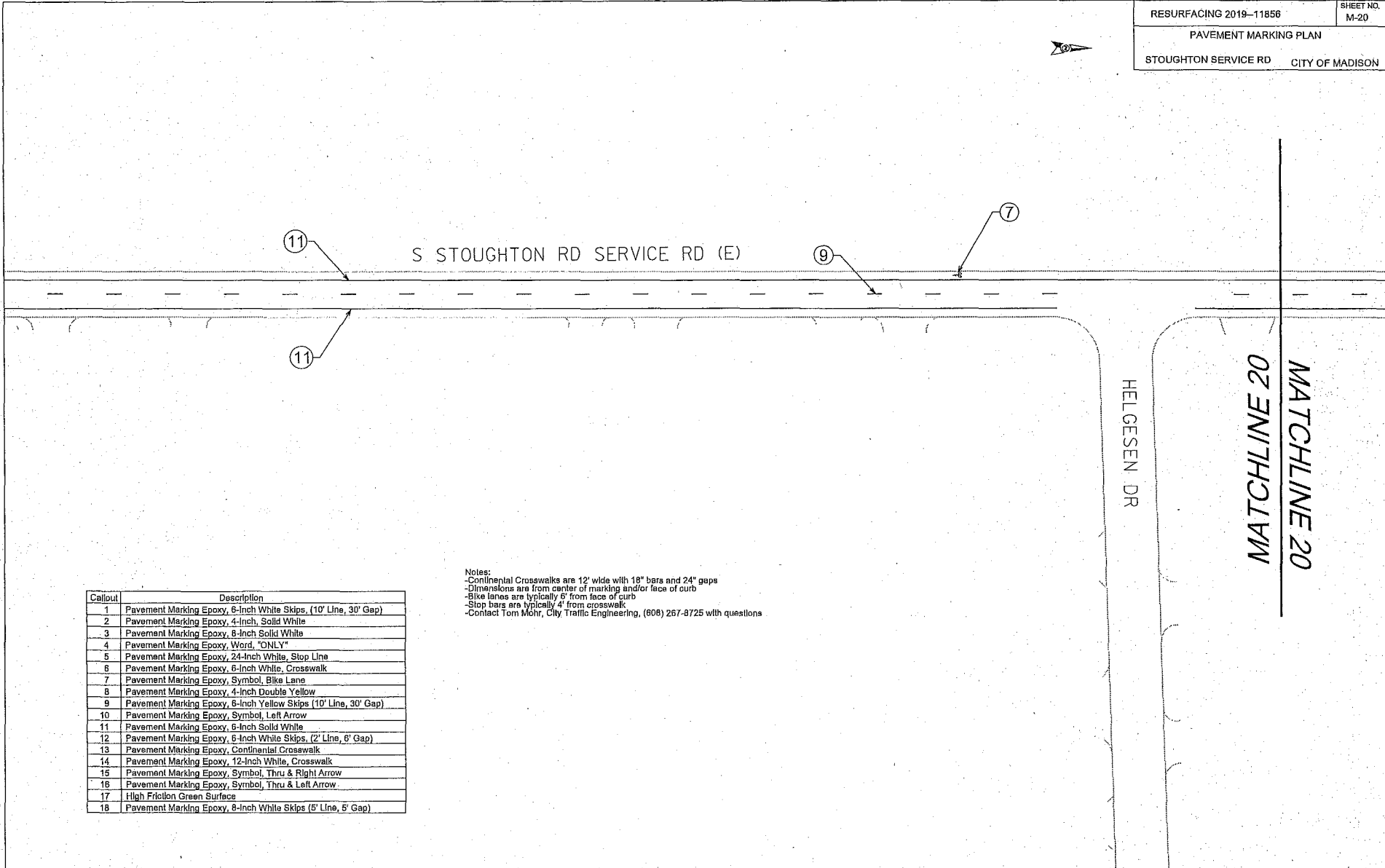
PFLAUM RD

MATCHLINE 19  
MATCHLINE 19

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
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11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

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PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



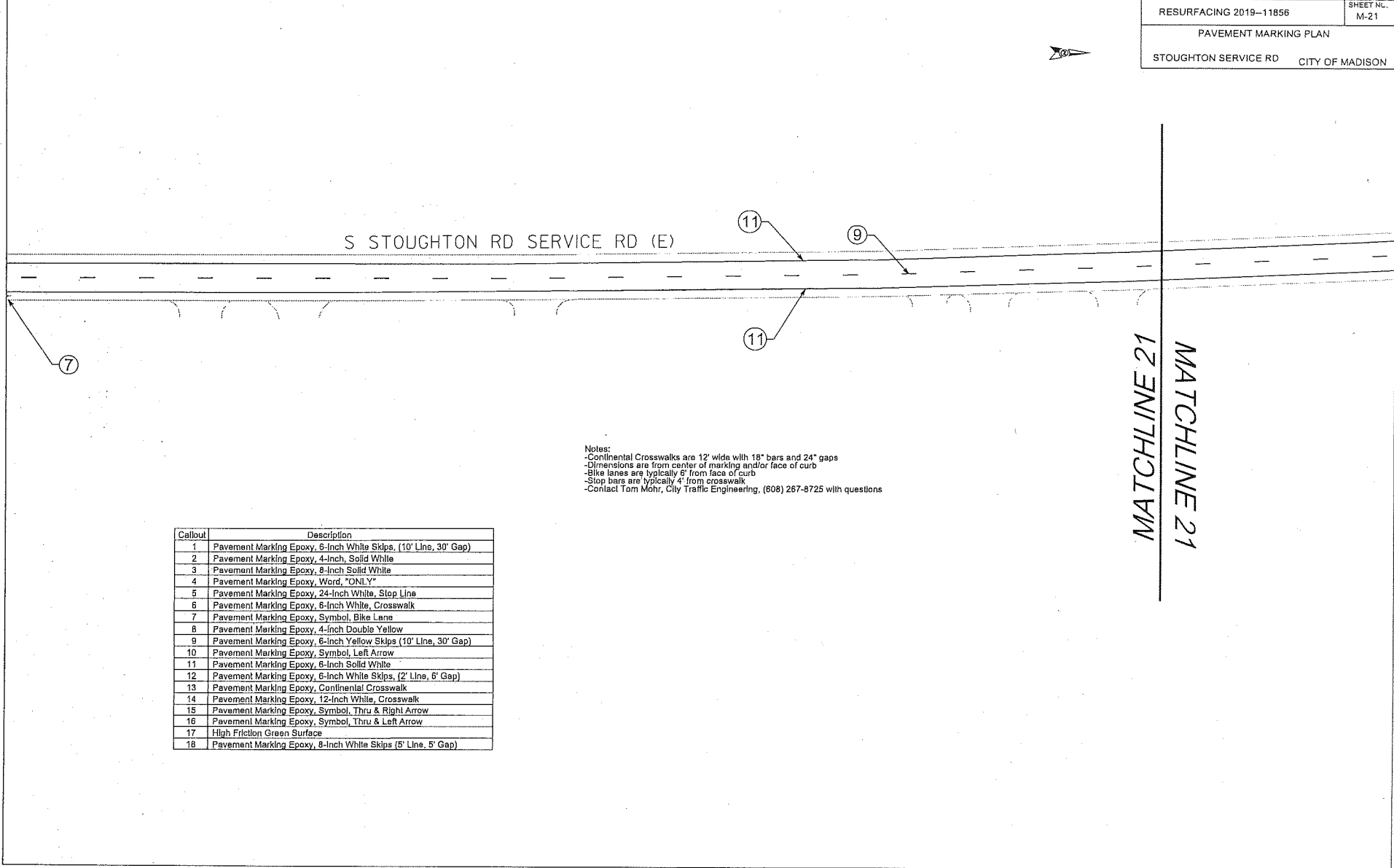
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
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12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
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14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (6' Line, 5' Gap)

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



S STOUGHTON RD SERVICE RD (E)

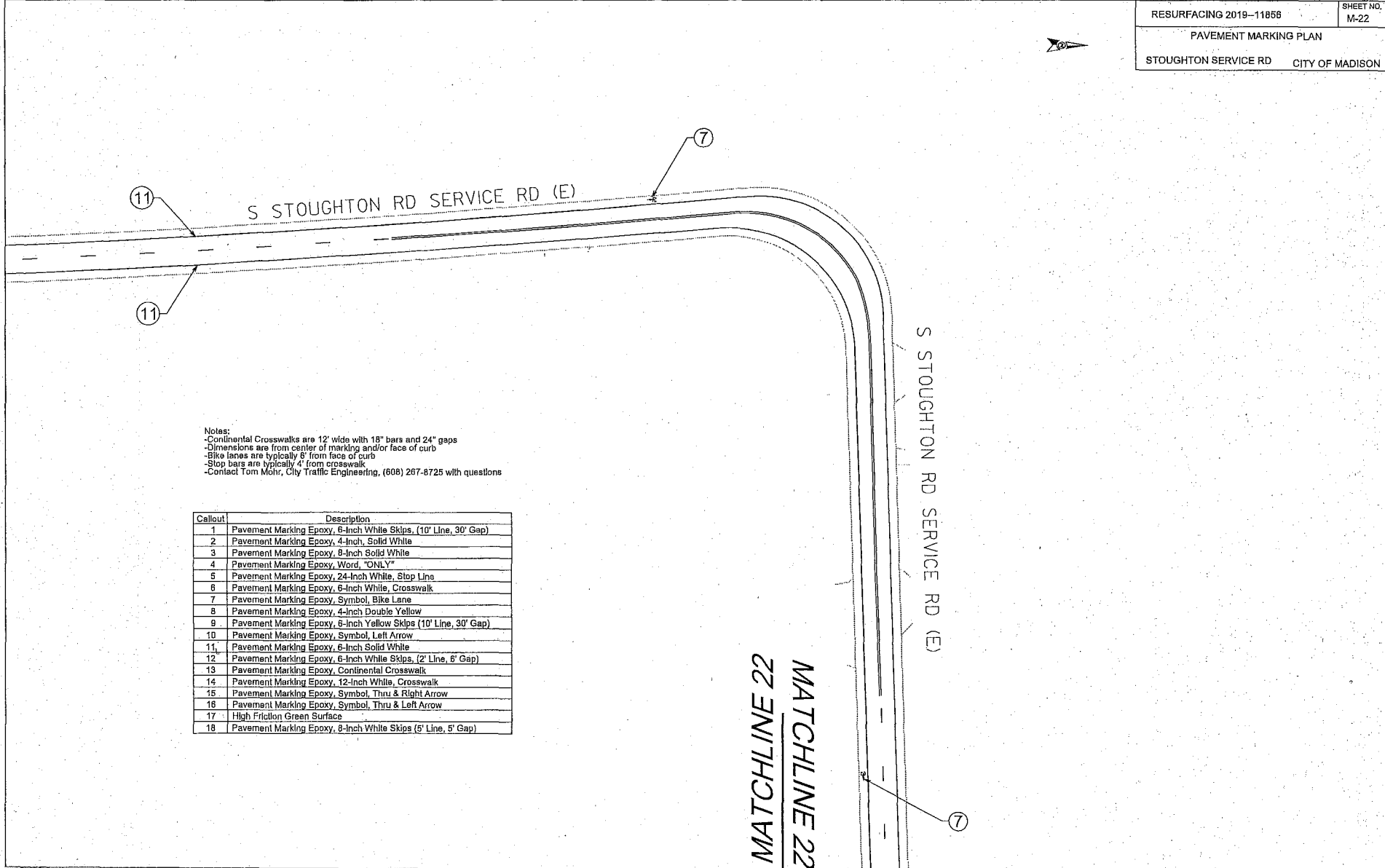


MATCHLINE 21

Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

PLOT SCALE  
PLOT NAME  
REV. DATE  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 8' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 8' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

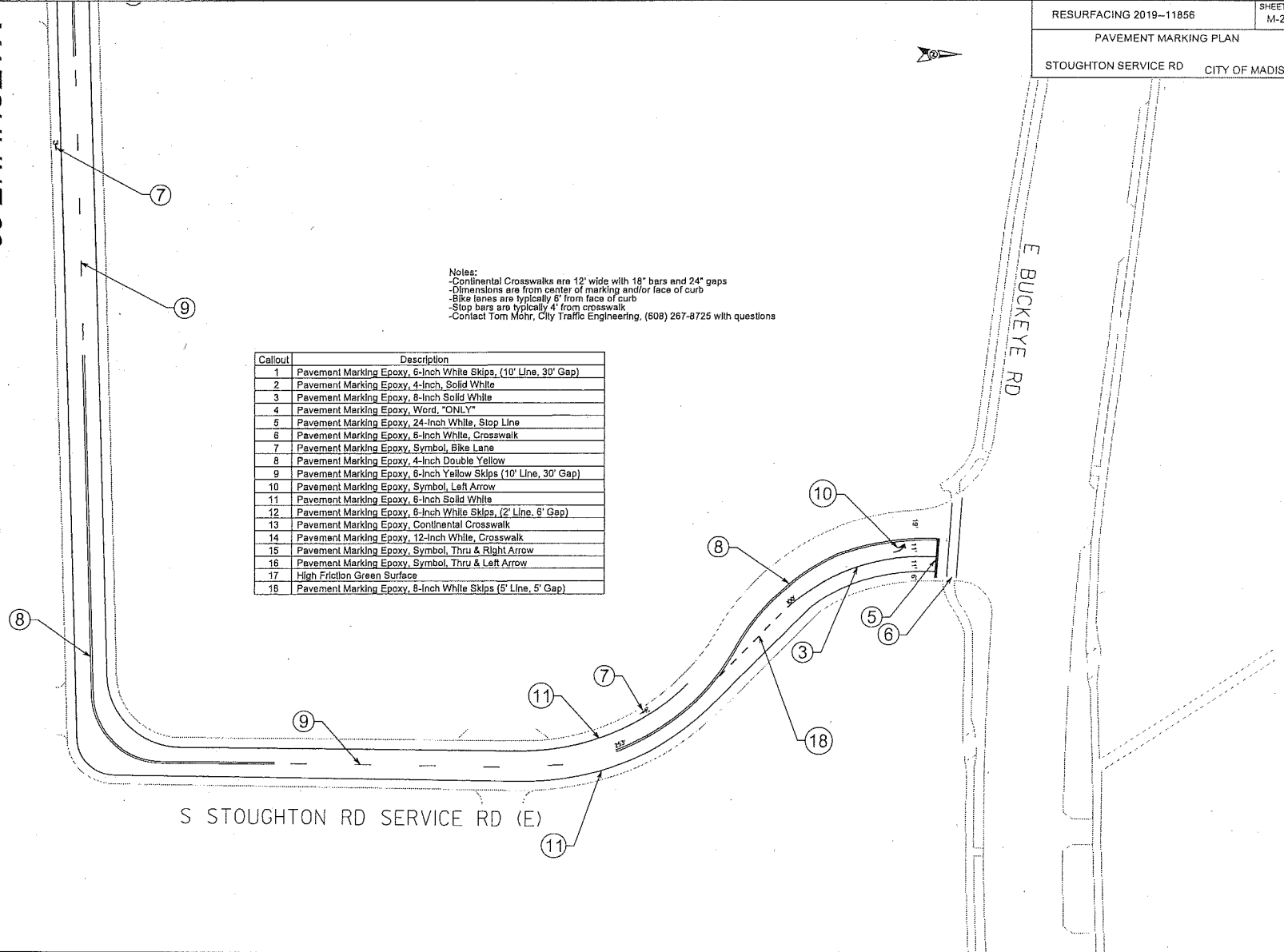
PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENGINEERING DIV.



MATCHLINE 22  
22 EN17H1CL1W

Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)



PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRANSPORTATION DIV.



SEIFERTH RD

TOMPKINS DR

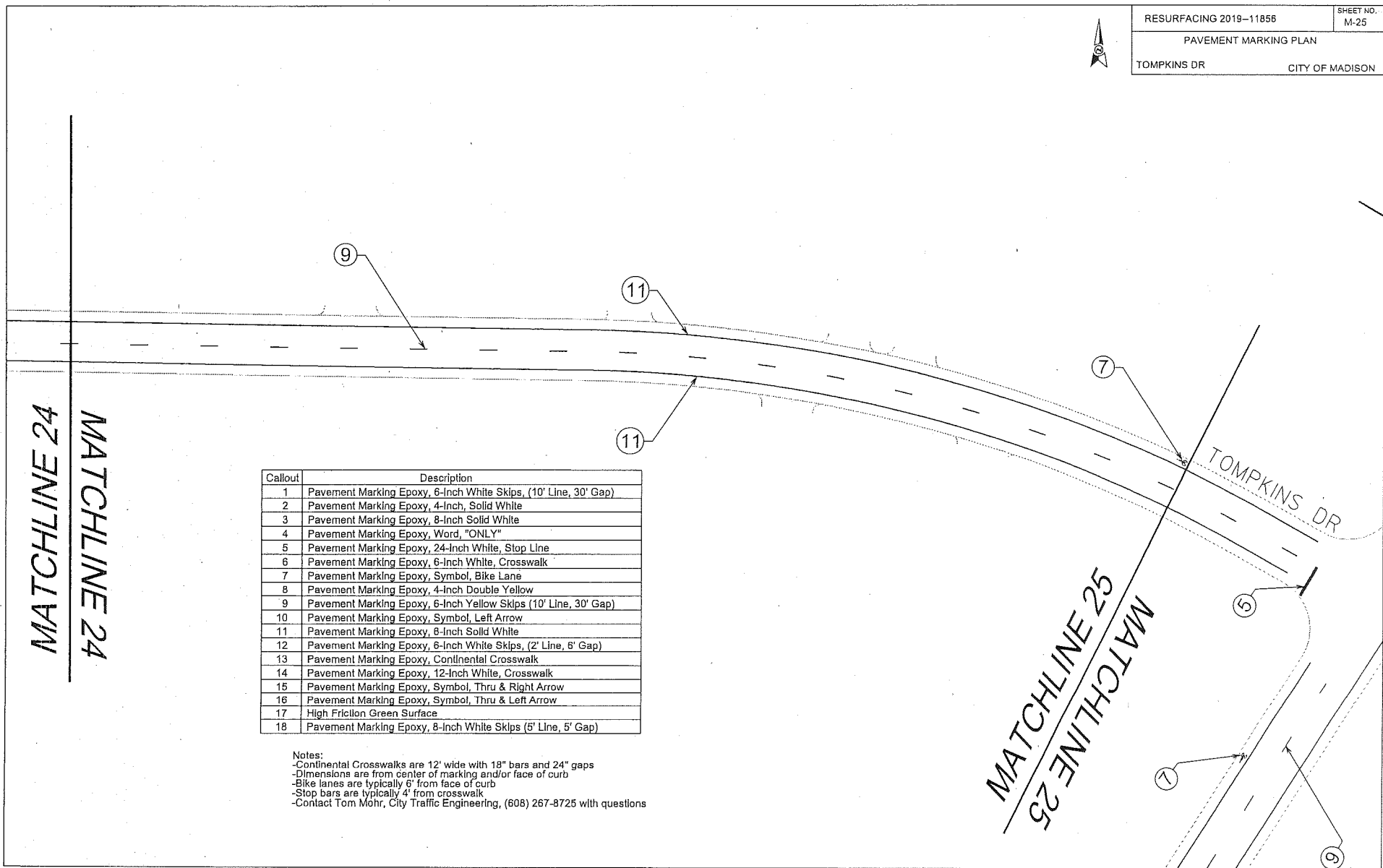
S STOUGHTON RD SERVICE RD (E)

MATCHLINE 24  
42 ENITHTLAW

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

PLLOT SCALE:  
 PLLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 8-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

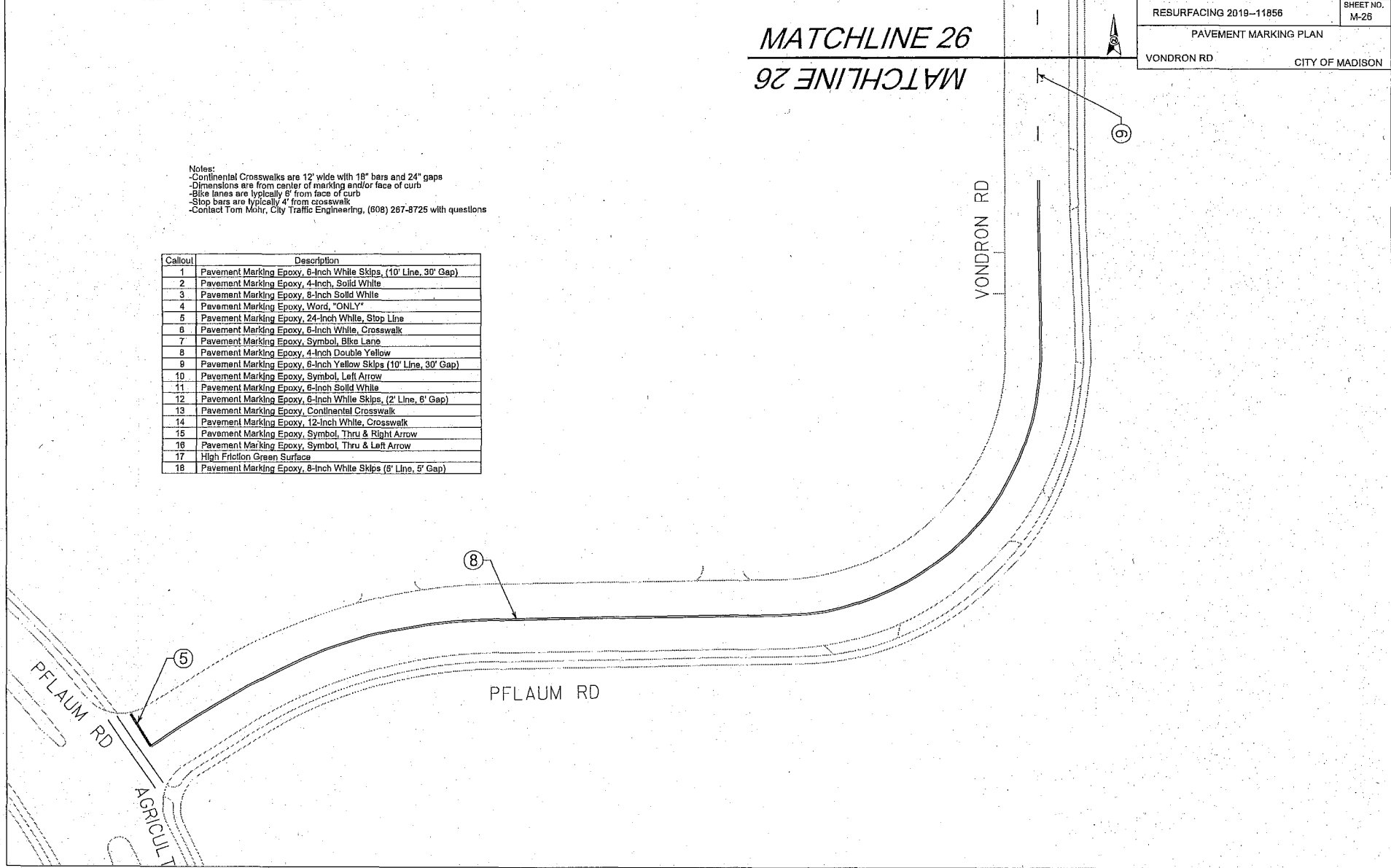
Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.  
 REV. DATE:  
 PLOT NAME:  
 PLOT SCALE:

MATCHLINE 26  
 MATCHLINE 26

- Notes:
- Continental Crosswalks are 12' wide with 18" bars and 24" gaps
  - Dimensions are from center of marking and/or face of curb
  - Bike lanes are typically 8' from face of curb
  - Stop bars are typically 4' from crosswalk
  - Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions

Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 8' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (8' Line, 8' Gap)



PLOT SCALE  
 PLOT NAME  
 REV. DATES  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENGINE DIV.





PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

MATCHLINE 26  
 MATCHLINE 26

MUSTANG WAY

VONDRON RD

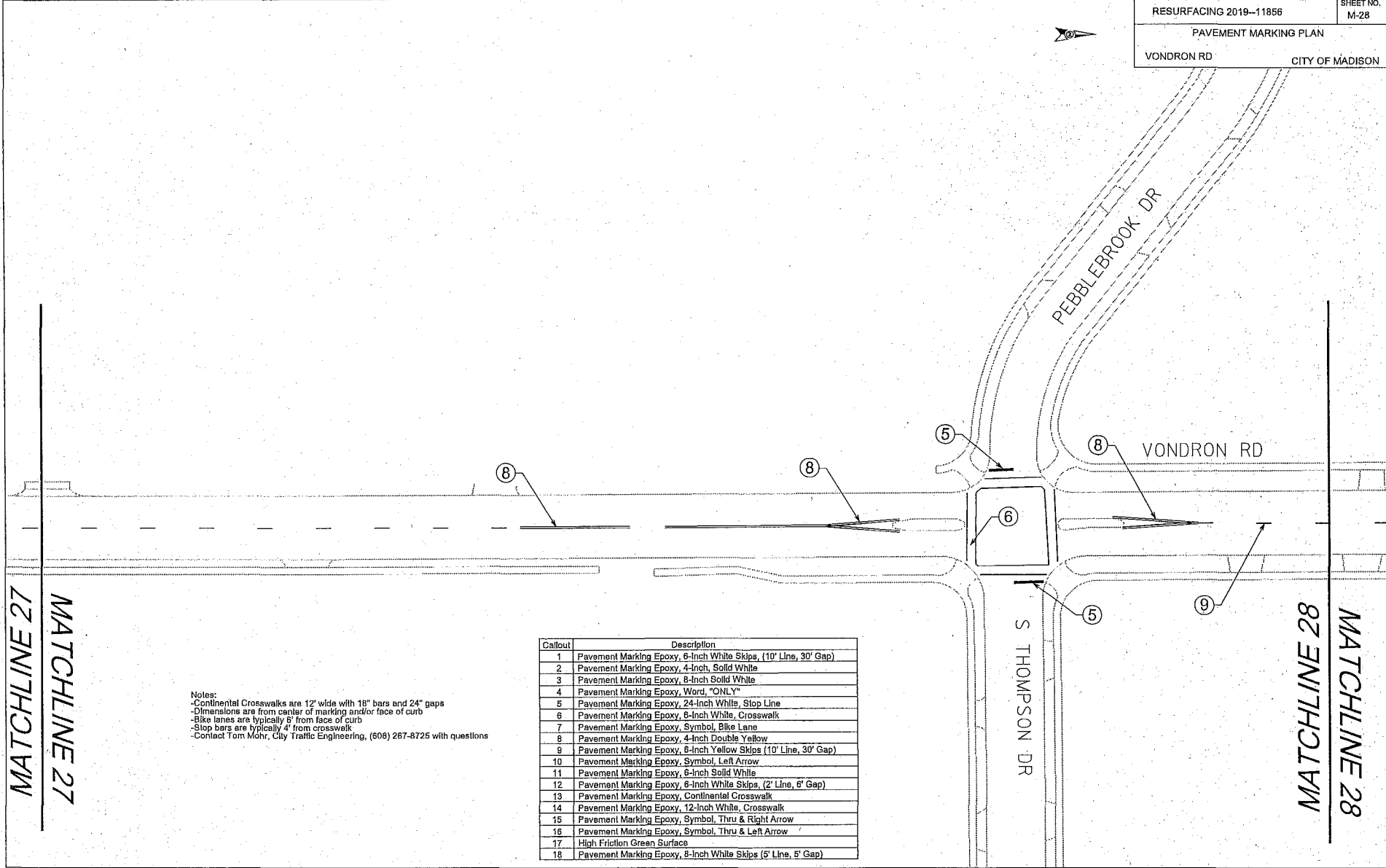
MATCHLINE 27  
 MATCHLINE 27

9

5

Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)



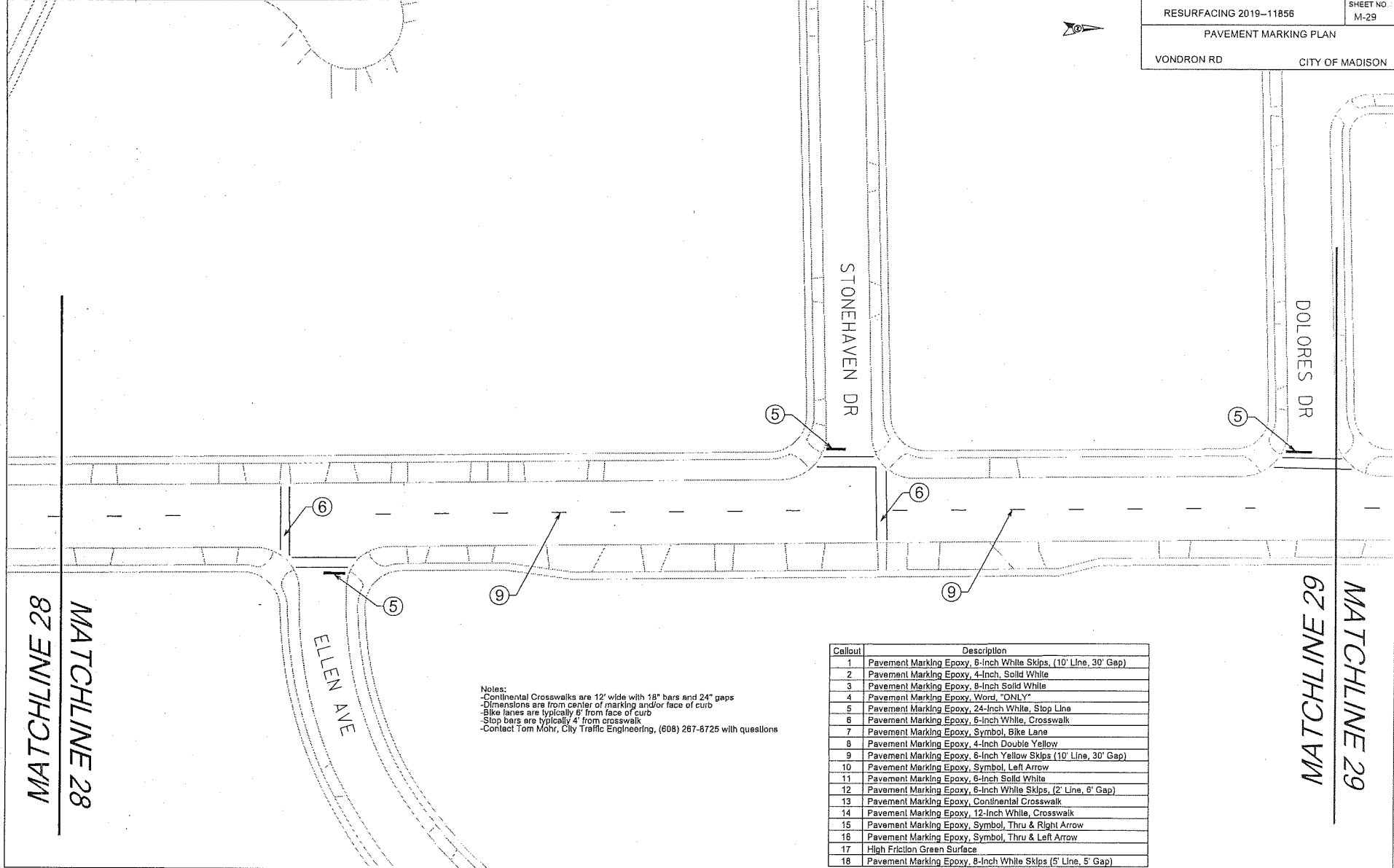
Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 8-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 8-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 8-Inch Solid White
12	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

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ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.  
 REV. DATE:  
 PLOT NAME:  
 PLOT SCALE:

MATCHLINE 27  
 27 EN1THCL1W

MATCHLINE 28  
 28 EN1THCL1W



Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
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 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
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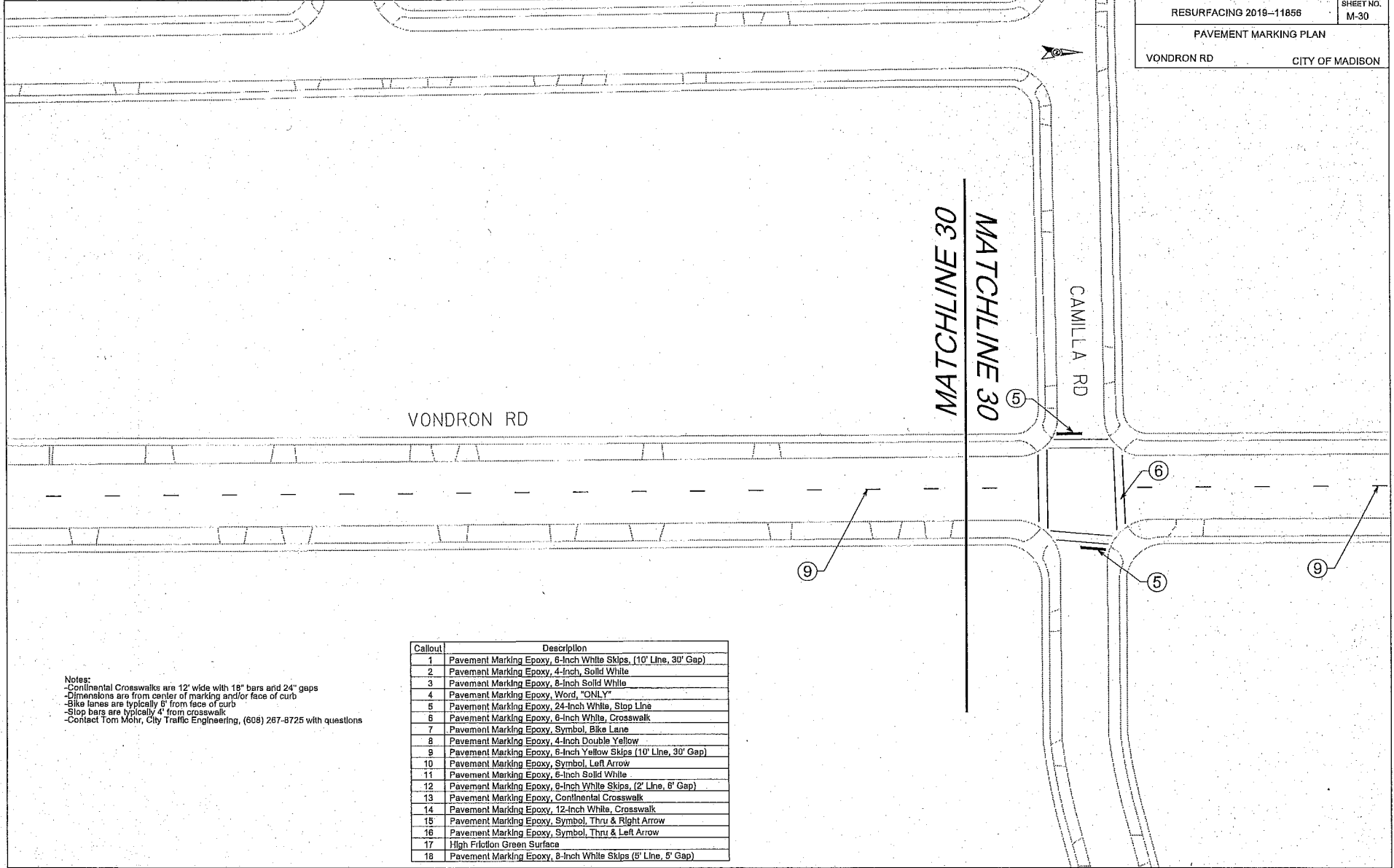
Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PAVEMENT MARKING PLAN

VONDRON RD

CITY OF MADISON



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

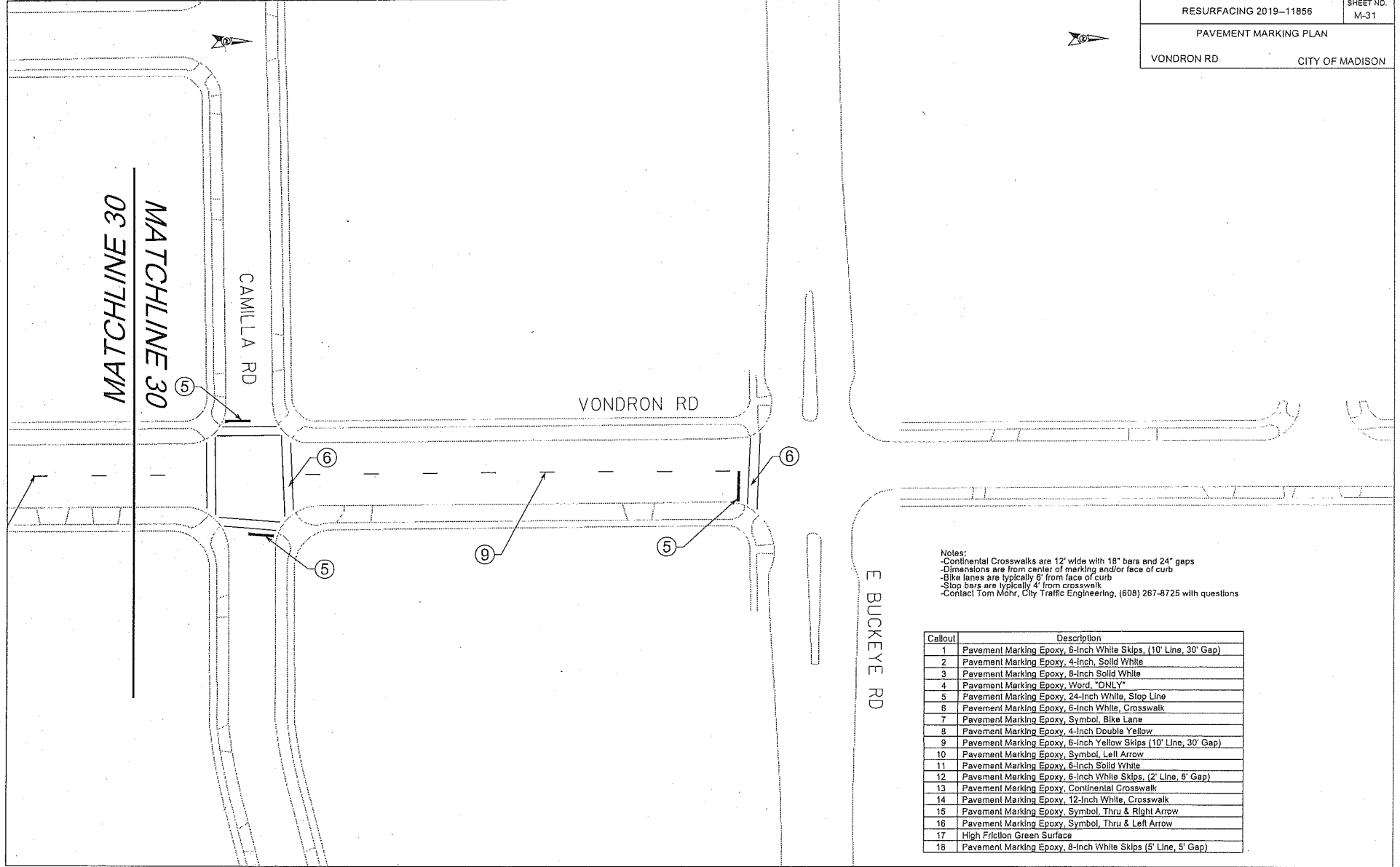
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 8-Inch Solid White
12	Pavement Marking Epoxy, 8-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (6' Line, 5' Gap)

PAVEMENT MARKING PLAN

VONDRON RD

CITY OF MADISON



- Notes:
- Continental Crosswalks are 12' wide with 18" bars and 24" gaps
  - Dimensions are from center of marking and/or face of curb
  - Bike lanes are typically 6' from face of curb
  - Stop bars are typically 4' from crosswalk
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Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

PLOT SCALE:

PLOT NAME:

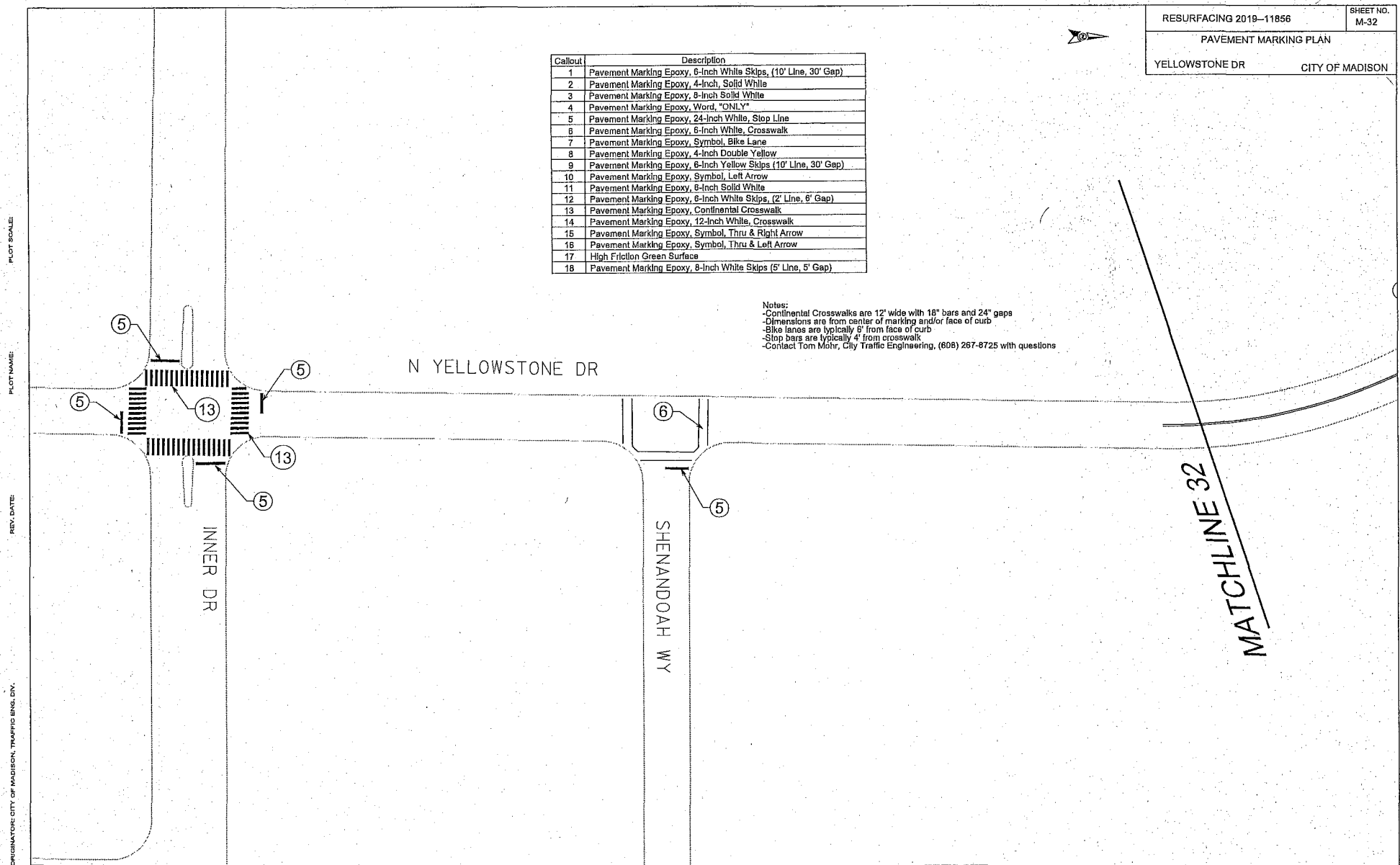
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ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

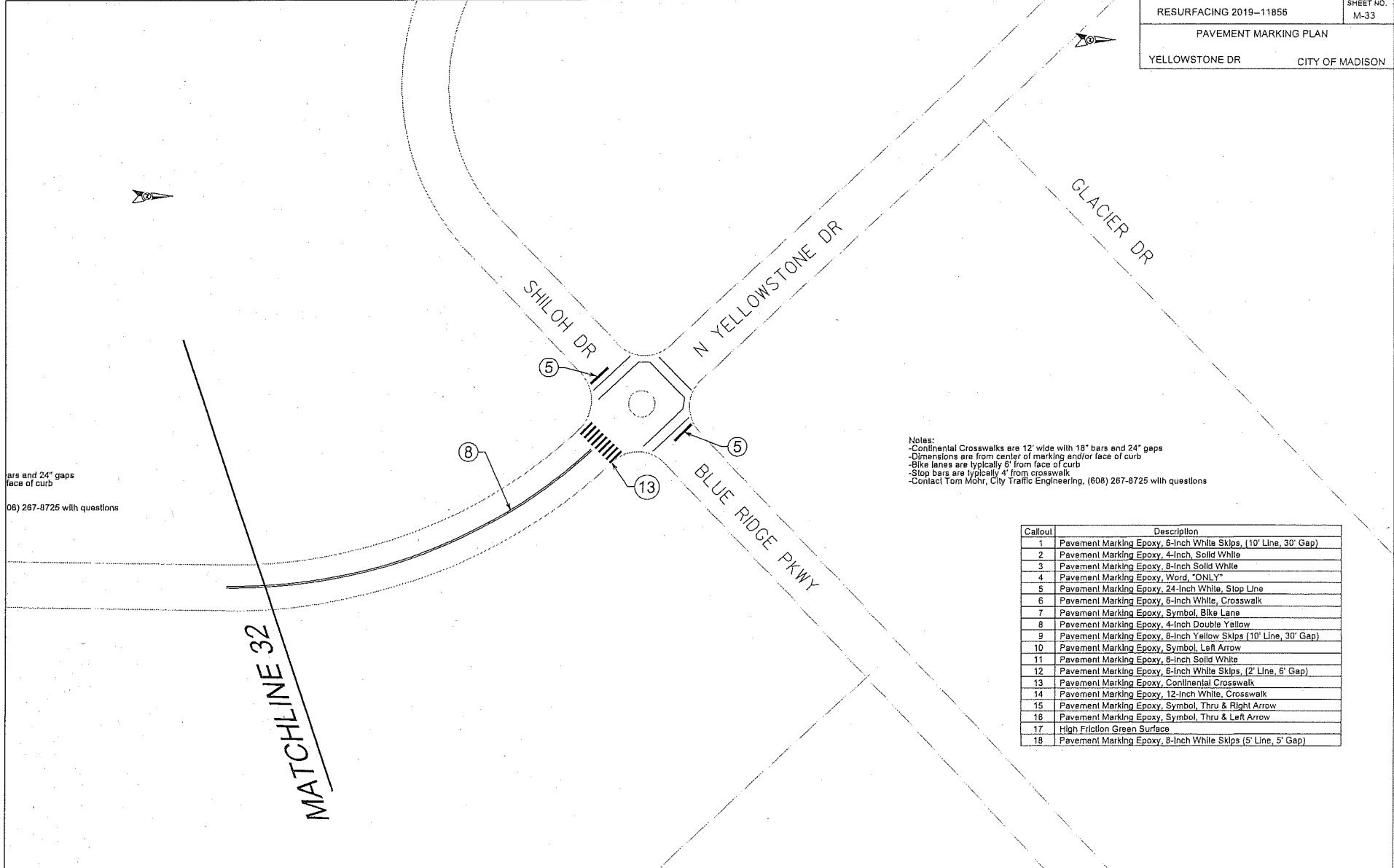


Callout	Description
1	Pavement Marking Epoxy, 6-inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-inch, Solid White
3	Pavement Marking Epoxy, 8-inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-inch White, Stop Line
6	Pavement Marking Epoxy, 6-inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-inch Double Yellow
9	Pavement Marking Epoxy, 6-inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 8-inch Solid White
12	Pavement Marking Epoxy, 6-inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-inch White Skips (5' Line, 5' Gap)

Notes:  
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PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
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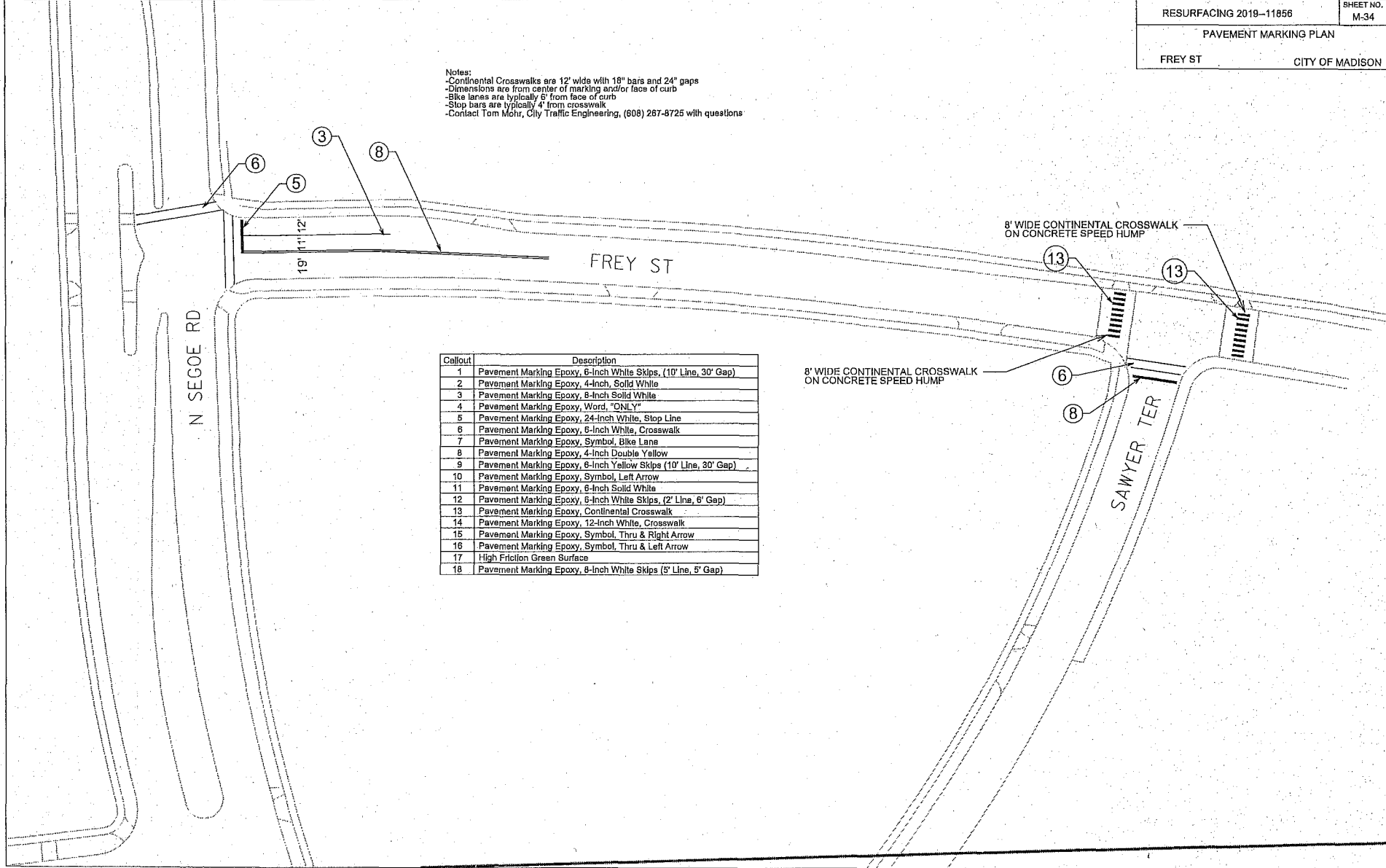
Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 8-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 8-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

ars and 24" gaps  
 face of curb  
 08) 267-8725 with questions

MATCHLINE 32

Notes:  
 -Continental Crosswalks are 12' wide with 18" bars and 24" gaps  
 -Dimensions are from center of marking and/or face of curb  
 -Bike lanes are typically 6' from face of curb  
 -Stop bars are typically 4' from crosswalk  
 -Contact Tom Mohr, City Traffic Engineering, (608) 267-8725 with questions



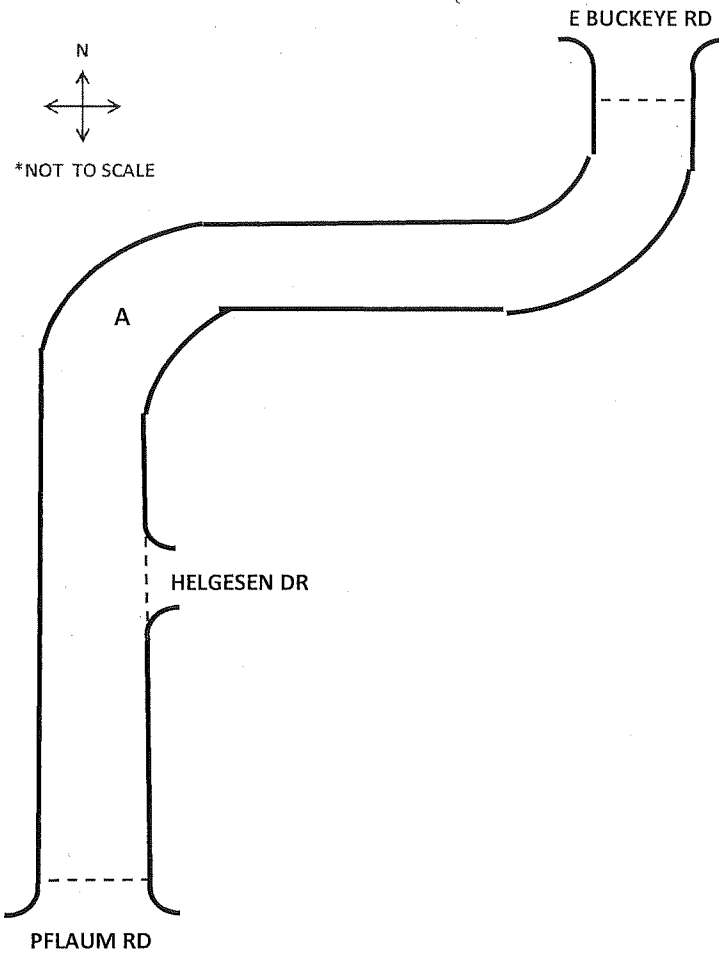
Callout	Description
1	Pavement Marking Epoxy, 6-Inch White Skips, (10' Line, 30' Gap)
2	Pavement Marking Epoxy, 4-Inch, Solid White
3	Pavement Marking Epoxy, 8-Inch Solid White
4	Pavement Marking Epoxy, Word, "ONLY"
5	Pavement Marking Epoxy, 24-Inch White, Stop Line
6	Pavement Marking Epoxy, 6-Inch White, Crosswalk
7	Pavement Marking Epoxy, Symbol, Bike Lane
8	Pavement Marking Epoxy, 4-Inch Double Yellow
9	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
10	Pavement Marking Epoxy, Symbol, Left Arrow
11	Pavement Marking Epoxy, 6-Inch Solid White
12	Pavement Marking Epoxy, 6-Inch White Skips, (2' Line, 6' Gap)
13	Pavement Marking Epoxy, Continental Crosswalk
14	Pavement Marking Epoxy, 12-Inch White, Crosswalk
15	Pavement Marking Epoxy, Symbol, Thru & Right Arrow
16	Pavement Marking Epoxy, Symbol, Thru & Left Arrow
17	High Friction Green Surface
18	Pavement Marking Epoxy, 8-Inch White Skips (5' Line, 5' Gap)

PLOT SCALE  
 PLOT NAME  
 REV. DATE  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENGINEERING DIV.



# RESURFACING 2019

**STREET NAME: S STOUGHTON RD (SERVICE RD)**  
**LIMITS: SOUTH OF E BUCKEYE RD TO PFLAUM RD**



**AREA (SY)**  
 $A = 4080 \times 28 = 12693$   
**TOTAL = 12693**

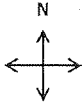
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER 2.5" - 3 MT 58-28 S	<b>1,904</b> TON
HMA UPPER LAYER 2" - 4 MT 58-28 S	<b>1,523</b> TON
ESTIMATED UNDERCUT	<b>2,120</b> CY
ESTIMATED BREAKER	<b>3,395</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>12,693</b> SY

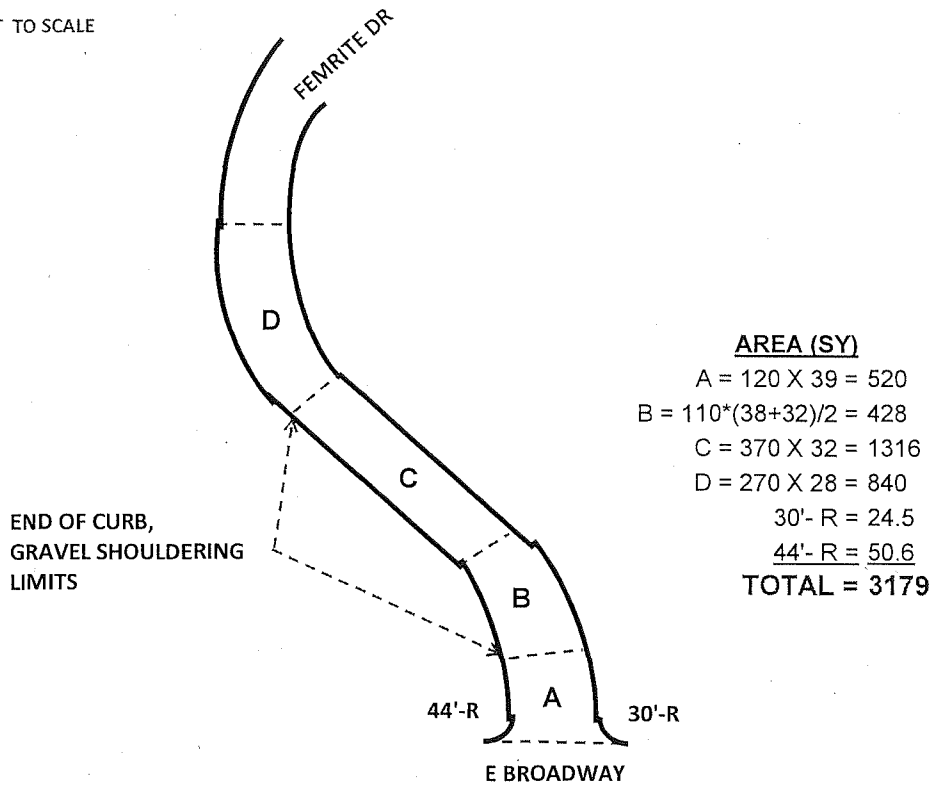
# RESURFACING 2019

STREET NAME: E BROADWAY SERVICE RD

LIMITS: FEMRITE DR TO E BROADWAY



\*NOT TO SCALE



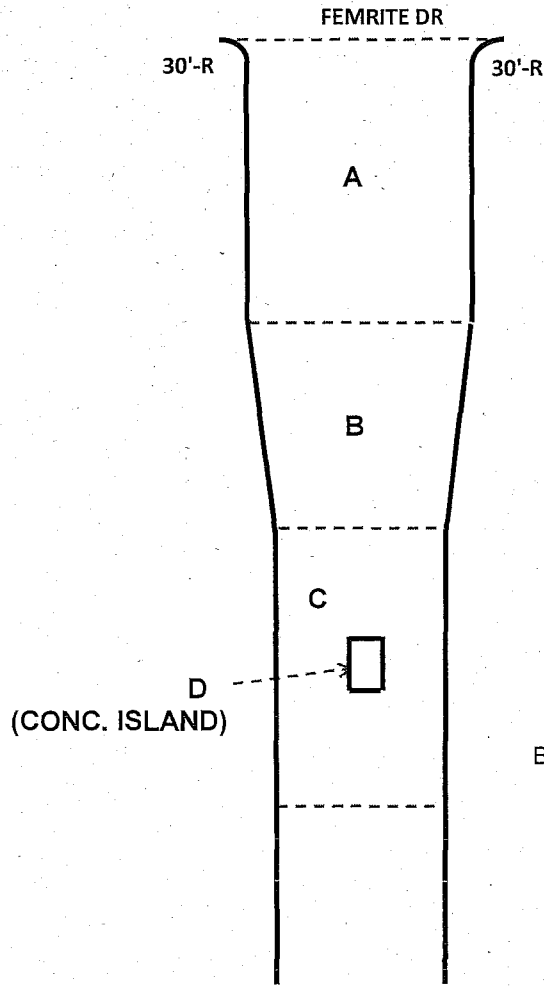
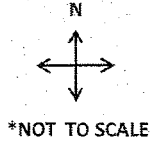
## ITEMS

TACK COAT		GAL
HMA LOWER LAYER	2.5" - 3 MT 58-28 S	<b>477</b> TON
HMA UPPER LAYER	2" - 4 MT 58-28 S	<b>382</b> TON
ESTIMATED UNDERCUT		<b>535</b> CY
ESTIMATED BREAKER		<b>855</b> TON
SHOULDERING		<b>480</b> FT
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>3,179</b> SY

# RESURFACING 2019

**STREET NAME: AGRICULTURE DR**

**LIMITS: FEMRITE DR TO 600' SOUTH OF FEMRITE DR**



<u>AREA (SY)</u>	
A = 227 X 52 =	1311.6
B = 104*(52+44)/2 =	554.7
C = 244 X 44 =	1193
D = 50 X 8 =	-44
<u>2-30'-R =</u>	<u>49.0</u>
<b>TOTAL =</b>	<b>3064</b>

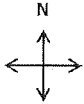
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER 3.25" - 3 MT 58-28 S	<b>613</b> TON
HMA UPPER LAYER 2" - 4 MT 58-28 S	<b>368</b> TON
ESTIMATED UNDERCUT	<b>515</b> CY
ESTIMATED BREAKER	<b>825</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>3,064</b> SY

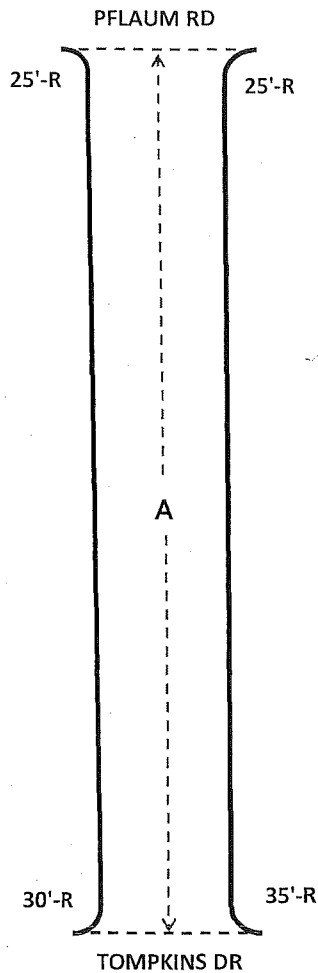
# RESURFACING 2019

**STREET NAME: SEIFERTH RD**

**LIMITS: PFLAUM RD TO TOMPKINS DR**



\*NOT TO SCALE



**AREA (SY)**

$A = 1320 \times 28 = 4106.7$

30'- R = 24.5

35'- R = 32.7

2-25'- R = 34.8

**TOTAL = 4199**

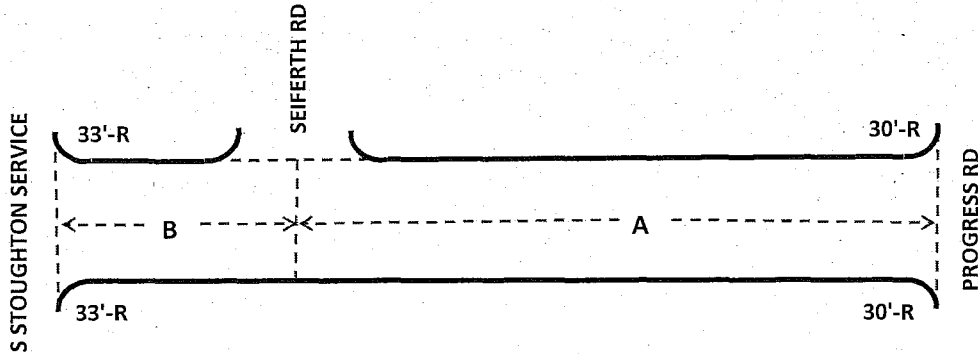
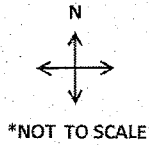
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER	2.5" - 3 MT 58-28 S	<b>630</b> TON
HMA UPPER LAYER	2" - 4 MT 58-28 S	<b>504</b> TON
ESTIMATED UNDERCUT		<b>700</b> CY
ESTIMATED BREAKER		<b>1,120</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>4,199</b> SY

# RESURFACING 2019

**STREET NAME: TOMPKINS DR**

**LIMITS: S STOUGHTON RD TO PROGRESS RD**



**AREA (SY)**

$A = 1195 \times 32 = 4248.9$

$B = 315 \times 28 = 980.0$

$2 \times 33' - R = 58.6$

$2 \times 30' - R = 49.0$

**TOTAL = 5337**

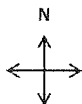
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER	2.5" - 3 MT 58-28 S	<b>801</b> TON
HMA UPPER LAYER	2" - 4 MT 58-28 S	<b>640</b> TON
ESTIMATED UNDERCUT		<b>900</b> CY
ESTIMATED BREAKER		<b>1,440</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>5,337</b> SY

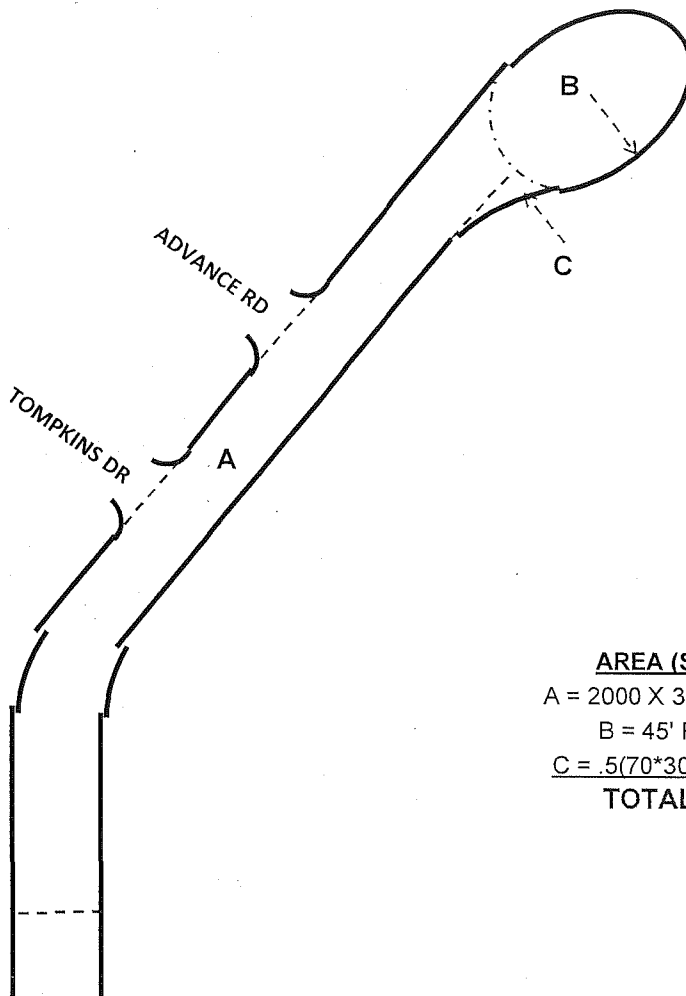
# RESURFACING 2019

**STREET NAME: PROGRESS ROAD**

**LIMITS: NORTH END TO 1200' SOUTH OF TOMPKINS DR**



\*NOT TO SCALE



**AREA (SY)**  
 A = 2000 X 36 = 8000  
 B = 45' R = 707  
 C = .5(70\*30) = 117  
**TOTAL = 8824**

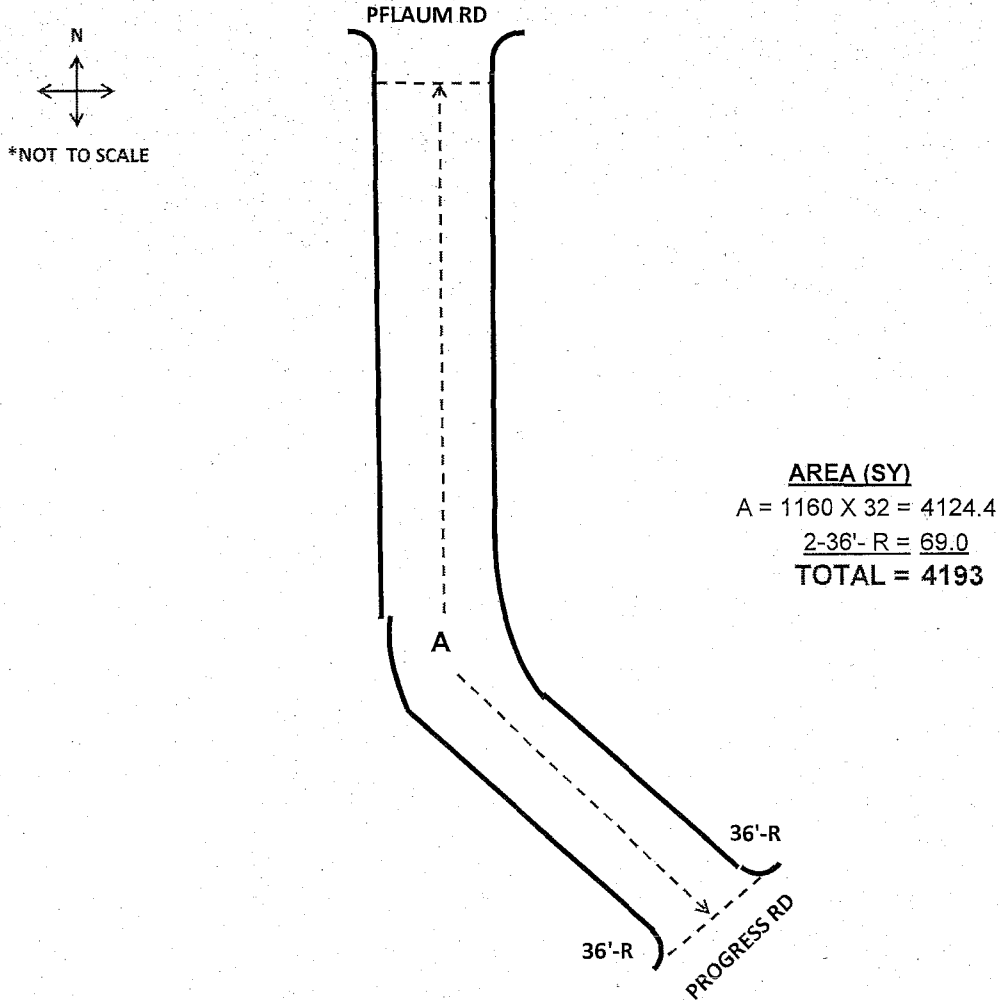
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER 2.5" - 3 MT 58-28 S	<b>1,324</b> TON
HMA UPPER LAYER 2" - 4 MT 58-28 S	<b>1,059</b> TON
ESTIMATED UNDERCUT	<b>1,480</b> CY
ESTIMATED BREAKER	<b>2,370</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>8,824</b> SY

# RESURFACING 2019

**STREET NAME: ADVANCE RD**

**LIMITS: PFLAUM RD TO PROGRESS RD**

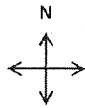


**ITEMS**

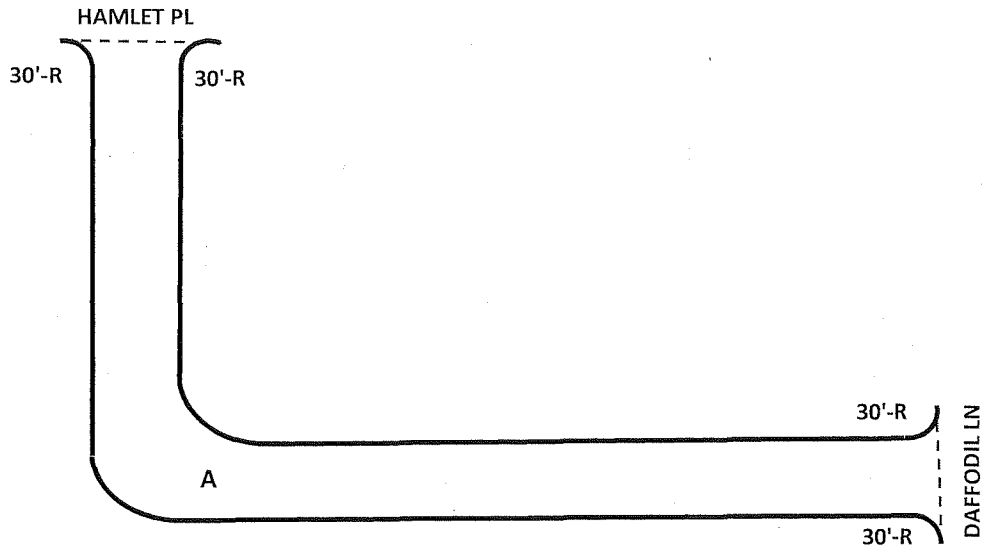
TACK COAT		GAL
HMA LOWER LAYER	2.5" - 3 MT 58-28 S	<b>629</b> TON
HMA UPPER LAYER	2" - 4 MT 58-28 S	<b>503</b> TON
ESTIMATED UNDERCUT		<b>700</b> CY
ESTIMATED BREAKER		<b>1,120</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>4,193</b> SY

# RESURFACING 2019

**STREET NAME: VIOLET LANE**  
**LIMITS: HAMLET PL TO DAFFODIL LN**



\*NOT TO SCALE



**AREA (SY)**  
 $A = 1070 \times 28 = 3329$   
 $4 \times 30' - R = 98$   
**TOTAL = 3427**

**ITEMS**

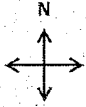
TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>617</b> TON
ESTIMATED UNDERCUT	<b>575</b> CY
ESTIMATED BREAKER	<b>920</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>3,427</b> SY



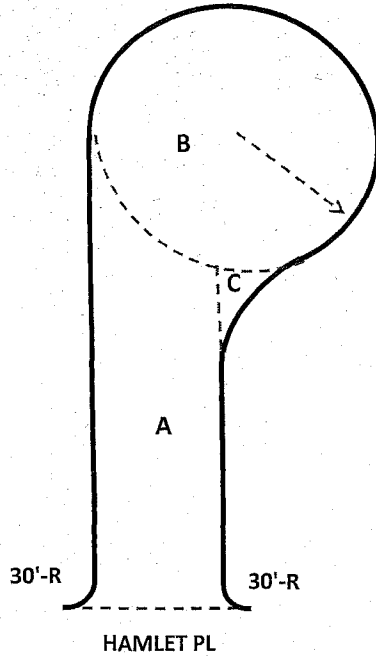
# RESURFACING 2019

**STREET NAME: VIOLET CIRCLE**  
**LIMITS: HAMLET PL TO NORTH END**

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\*NOT TO SCALE



**AREA (SY)**

A = 325 X 28 = 1011

B = 38' R = 503.8

C = .5(75\*32) = 133.3

2-30'-R = 49

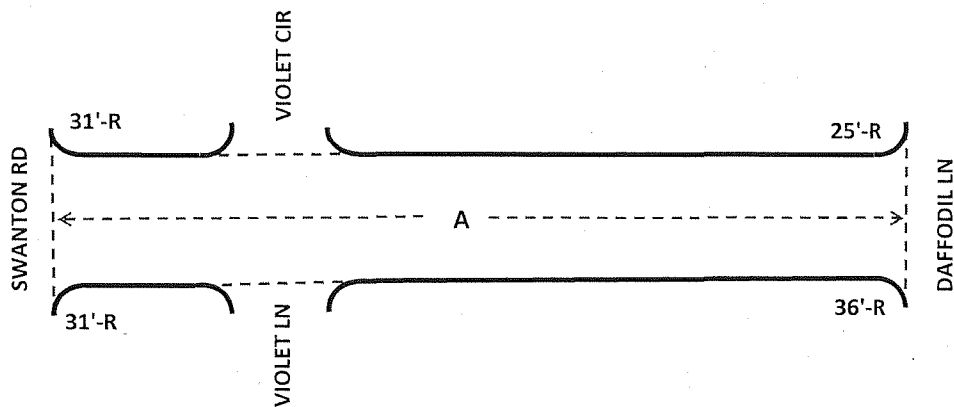
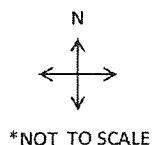
**TOTAL = 1697**

**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>306</b> TON
ESTIMATED UNDERCUT		<b>285</b> CY
ESTIMATED BREAKER		<b>455</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>1,697</b> SY

# RESURFACING 2019

**STREET NAME: HAMLET PLACE**  
**LIMITS: SWANTON RD TO DAFFODIL LN**



<u>AREA (SY)</u>	
A = 1100 X 28 =	3422.2
2-31'- R =	52.0
36'- R =	34.5
25'- R =	17.4
<b>TOTAL =</b>	<b>3526</b>

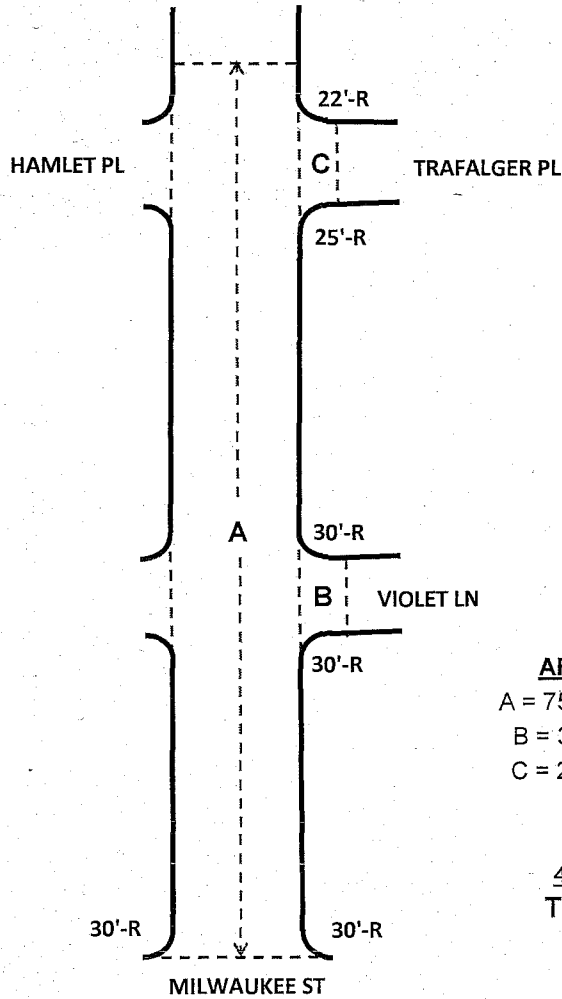
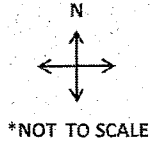
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>635</b> TON
ESTIMATED UNDERCUT	<b>590</b> CY
ESTIMATED BREAKER	<b>945</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>3,526</b> SY

## RESURFACING 2019

**STREET NAME: DAFFODIL LANE**  
**LIMITS: MILWAUKEE ST TO HAMLET PL**

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<u>AREA (SY)</u>
A = 750 X 28 = 2333.3
B = 32 X 28 = 99.6
C = 23 X 28 = 71.6
25'- R = 17.4
22'- R = 13.8
4-30'- R = <u>98.0</u>
<b>TOTAL = 2634</b>

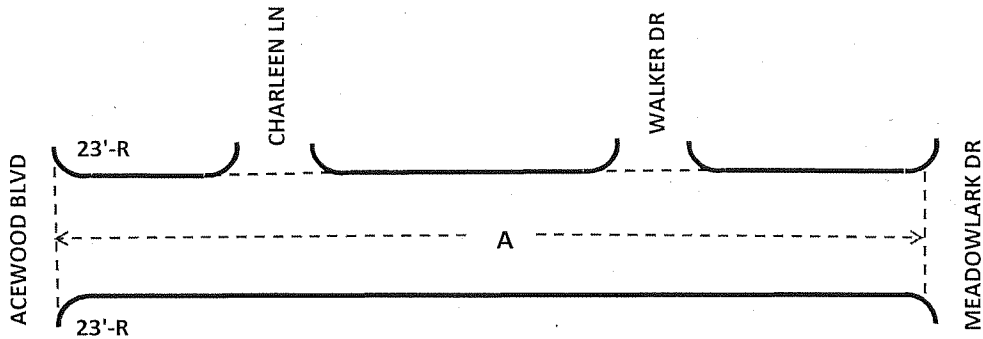
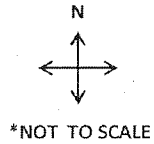
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>474</b> TON
ESTIMATED UNDERCUT	<b>440</b> CY
ESTIMATED BREAKER	<b>705</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>2,634</b> SY

# RESURFACING 2019

STREET NAME: FLINT LN

LIMITS: ACEWOOD BLVD TO MEADOWLARK DR



**AREA (SY)**

$A = 1025 \times 28 = 3189$

$2 \times 23' - R = 30.0$

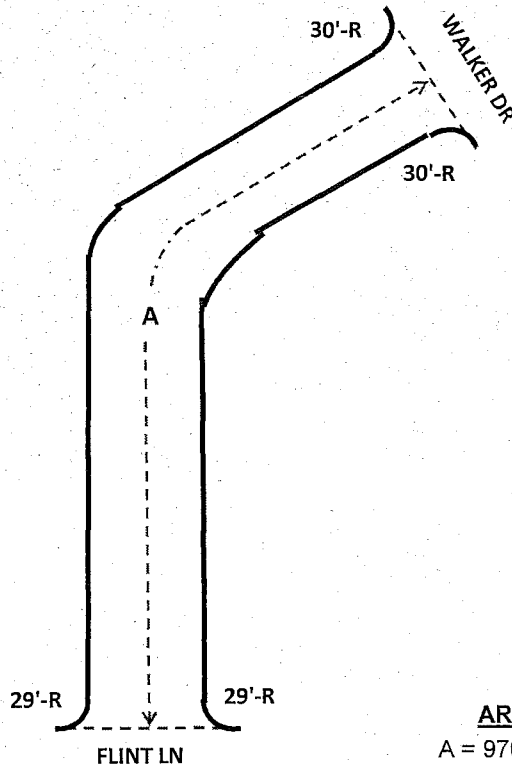
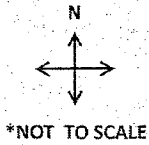
**TOTAL = 3219**

**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER    3" - 4 LT 58-28 S	<b>580</b> TON
ESTIMATED UNDERCUT	<b>540</b> CY
ESTIMATED BREAKER	<b>865</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>3,219</b> SY

# RESURFACING 2019

**STREET NAME: CHARLEEN LN**  
**LIMITS: FLINT LN TO WALKER DR**



**AREA (SY)**

A = 970 X 28 = 3017.8  
 2-30'- R = 49  
 2-29'- R = 46  
**TOTAL = 3113**

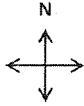
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>560</b> TON
ESTIMATED UNDERCUT		<b>520</b> CY
ESTIMATED BREAKER		<b>835</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>3,113</b> SY

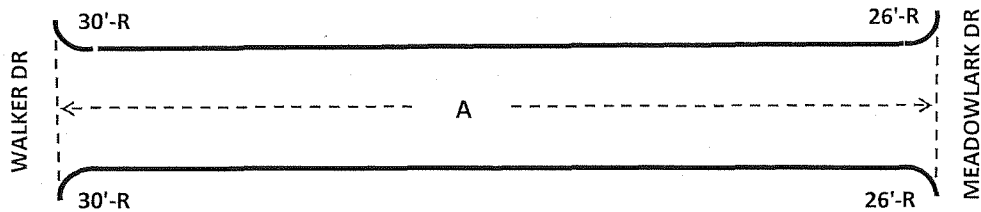
# RESURFACING 2019

STREET NAME: LOIS LN

LIMITS: WALKER DR TO MEADOWLARK DR



\*NOT TO SCALE



### AREA (SY)

$$A = 364 \times 28 = 1132.4$$

$$2 \times 26' - R = 37.4$$

$$2 \times 30' - R = 49.0$$

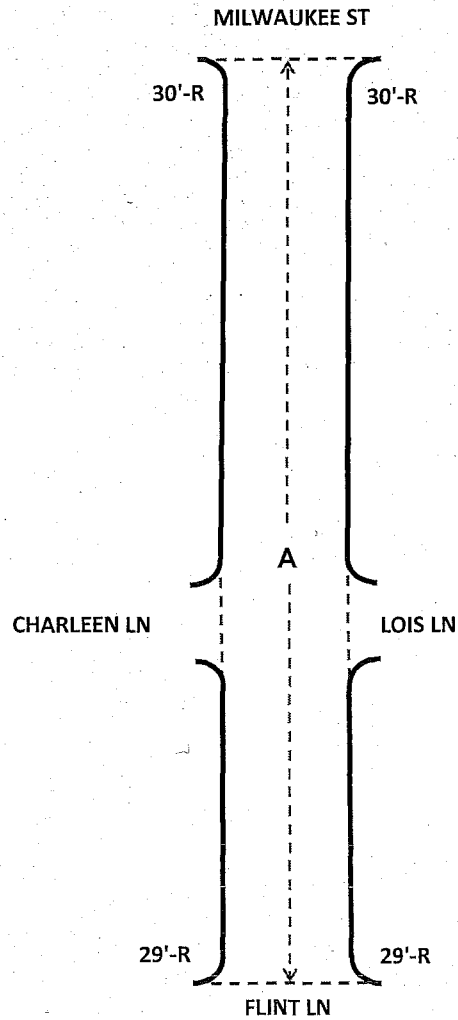
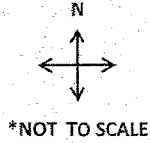
$$\text{TOTAL} = 1219$$

### ITEMS

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	219	TON
ESTIMATED UNDERCUT	205	CY
ESTIMATED BREAKER	330	TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE	1,219	SY

# RESURFACING 2019

**STREET NAME: WALKER DRIVE**  
**LIMITS: MILWAUKEE ST TO FLINT LN**



**AREA (SY)**  
 $A = 1210 \times 28 = 3764.4$   
 2-30'-R = 49.0  
 2-29'-R = 46.0  
**TOTAL = 3859**

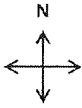
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER    3" - 4 LT 58-28 S	<b>695</b> TON
ESTIMATED UNDERCUT	<b>650</b> CY
ESTIMATED BREAKER	<b>1,040</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>3,859</b> SY

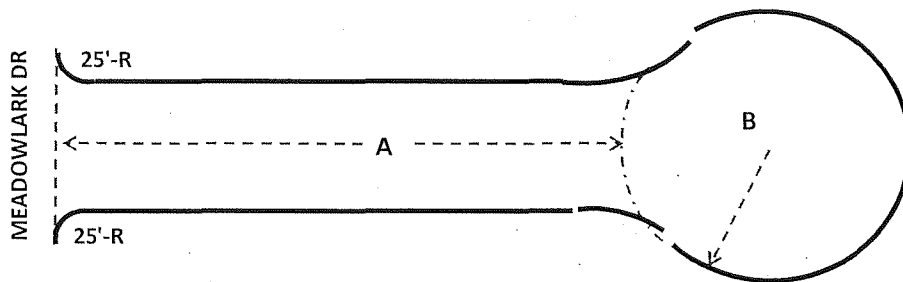
# RESURFACING 2019

**STREET NAME: RALPH CIR**

**LIMITS: MEADOWLARK DR TO EAST END**



\*NOT TO SCALE



**AREA (SY)**

A = 255 X 28 = 793.3

B = 44' R = 675.5

2-25'-R = 34.8

**TOTAL = 1504**

**ITEMS**

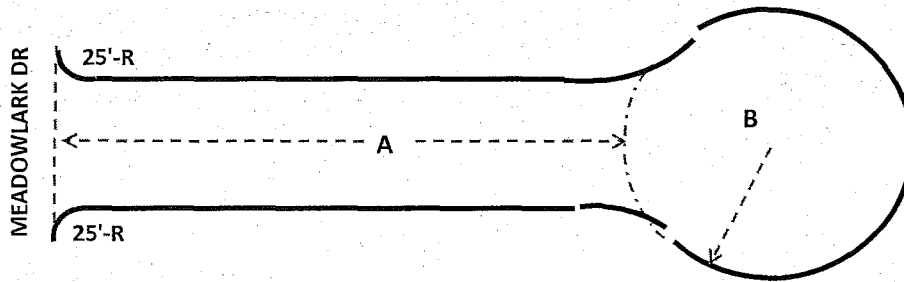
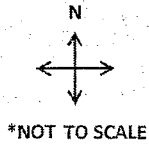
TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>271</b> TON
ESTIMATED UNDERCUT		<b>255</b> CY
ESTIMATED BREAKER		<b>410</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>1,504</b> SY



# RESURFACING 2019

**STREET NAME: BEEHNER CIR**

**LIMITS: MEADOWLARK DR TO EAST END**



**AREA (SY)**

A = 290 X 28 = 902.2

B = 44' R = 675.5

2-25'- R = 34.8

**TOTAL = 1613**

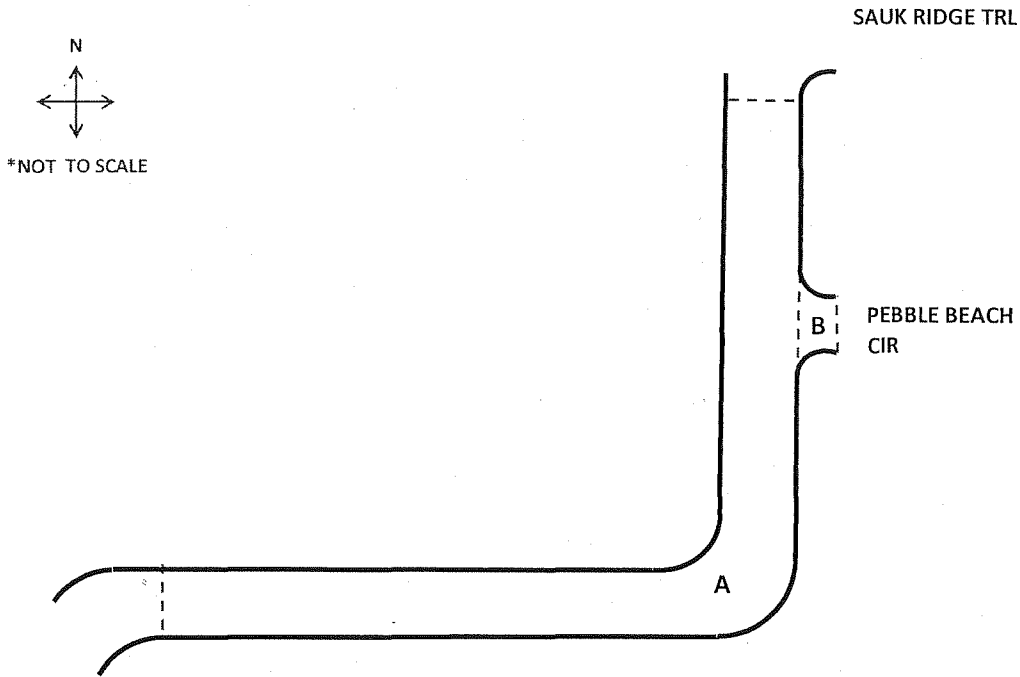
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>290</b> TON
ESTIMATED UNDERCUT		<b>270</b> CY
ESTIMATED BREAKER		<b>435</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>1,613</b> SY

# RESURFACING 2019

STREET NAME: PEBBLE BEACH DR

LIMITS: SAUK RIDGE TR TO NORTH OF OAK GROVE DR



**AREA (SY)**

A = 1385 X 28 = 4309

B = 58 X 7 = 45.1

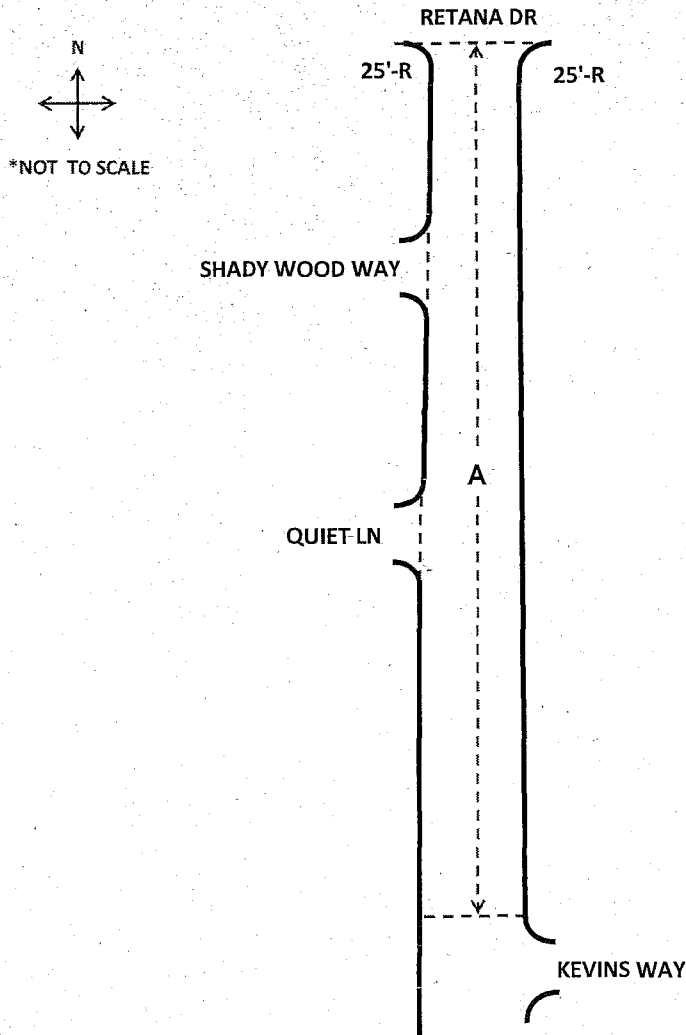
**TOTAL = 4354**

**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>784</b>	TON
ESTIMATED UNDERCUT	<b>730</b>	CY
ESTIMATED BREAKER	<b>1,170</b>	TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE	<b>4,354</b>	SY

# RESURFACING 2019

**STREET NAME: VALLEY RD**  
**LIMITS: RETANA DR TO KEVINS WAY**



**AREA (SY)**  
 $A = 1375 \times 28 = 4277.8$   
 $2 \times 25' \times R = 34.8$   
**TOTAL = 4313**

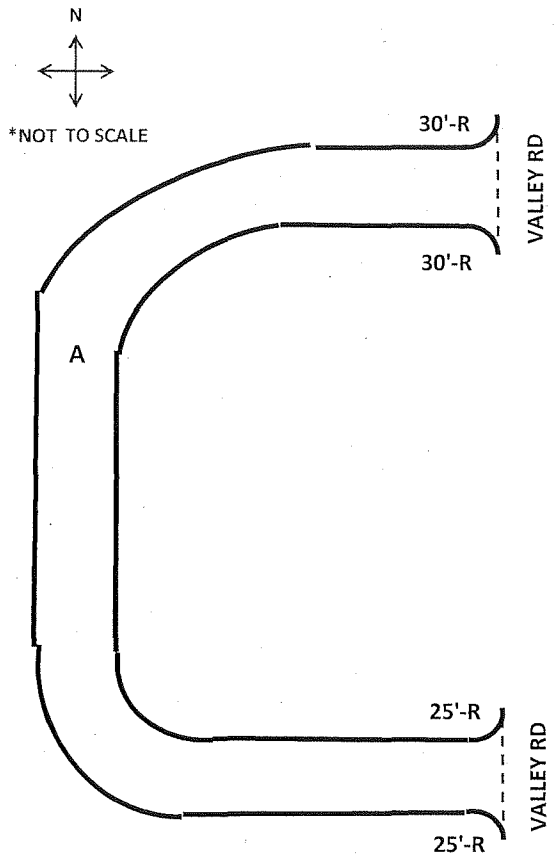
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>776</b>	TON
ESTIMATED UNDERCUT	<b>725</b>	CY
ESTIMATED BREAKER	<b>1,160</b>	TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE	<b>4,313</b>	SY

# RESURFACING 2019

**STREET NAME: SHADY WOOD WAY & QUIET LANE**

**LIMITS: VALLEY RD TO VALLEY RD**



**AREA (SY)**  
 A = 1320 X 28 = 4106.7  
 2-30'- R = 49.0  
 2-25'- R = 34.8  
**TOTAL = 4191**

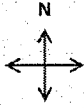
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>754</b> TON
ESTIMATED UNDERCUT	<b>705</b> CY
ESTIMATED BREAKER	<b>1,130</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>4,191</b> SY

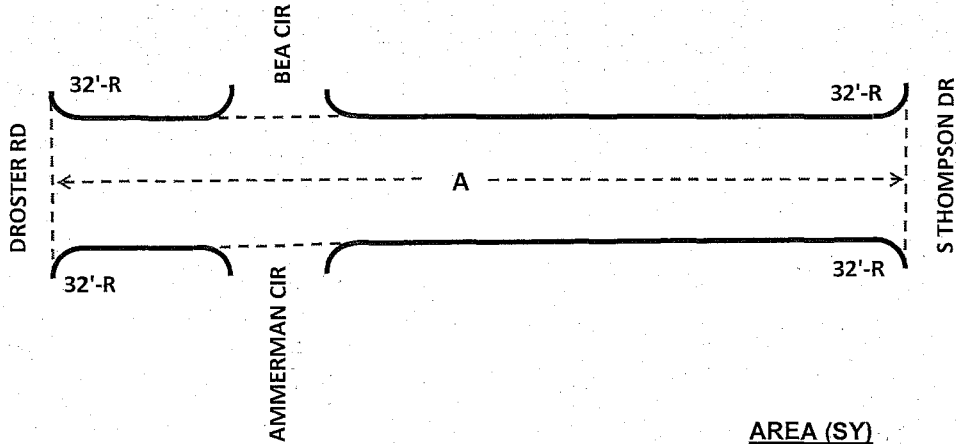
# RESURFACING 2019

**STREET NAME: KALAS STREET**

**LIMITS: DROSTER RD TO S THOMPSON DR**



\*NOT TO SCALE



**AREA (SY)**

$A = 1475 \times 28 = 4588.9$

$4 \times 32' - R = 110.4$

**TOTAL = 4699**

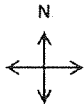
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>846</b> TON
ESTIMATED UNDERCUT	<b>790</b> CY
ESTIMATED BREAKER	<b>1,265</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>4,699</b> SY

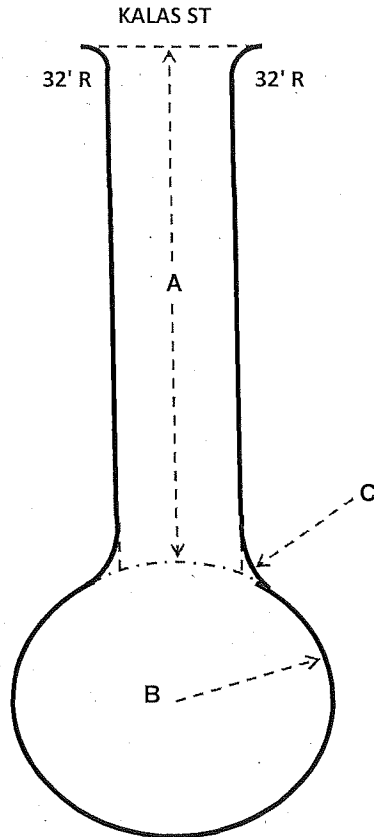
# RESURFACING 2019

**STREET NAME: AMMERMAN CIRCLE**

**LIMITS: KALAS ST TO SOUTH END**



\*NOT TO SCALE



**AREA (SY)**

$A = 364 \times 28 = 1132.4$

$B = 33' R = 380.3$

$C = 2 \times (15 \times 5) = 16.7$

$2 \times 32' - R = 55.2$

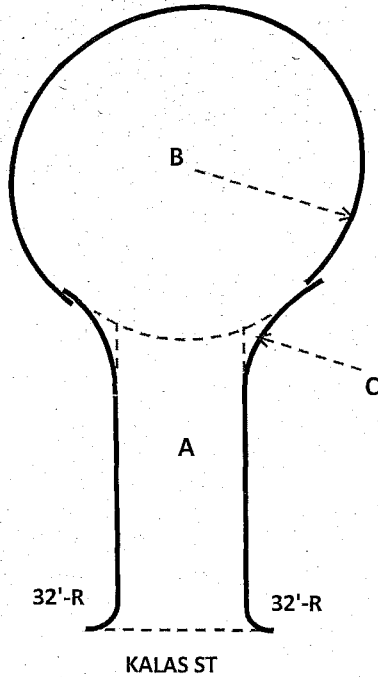
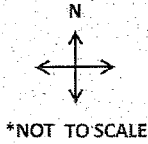
**TOTAL = 1585**

**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>285</b> TON
ESTIMATED UNDERCUT		<b>270</b> CY
ESTIMATED BREAKER		<b>435</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>1,585</b> SY

# RESURFACING 2019

**STREET NAME: BEA CIRCLE**  
**LIMITS: KALAS ST TO NORTH END**



**AREA (SY)**

A = 100 X 28 = 311.1  
 B = 33' R = 380.3  
 C = 2\*(13x5) = 14.4  
2-32'-R = 55.2  
**TOTAL = 761**

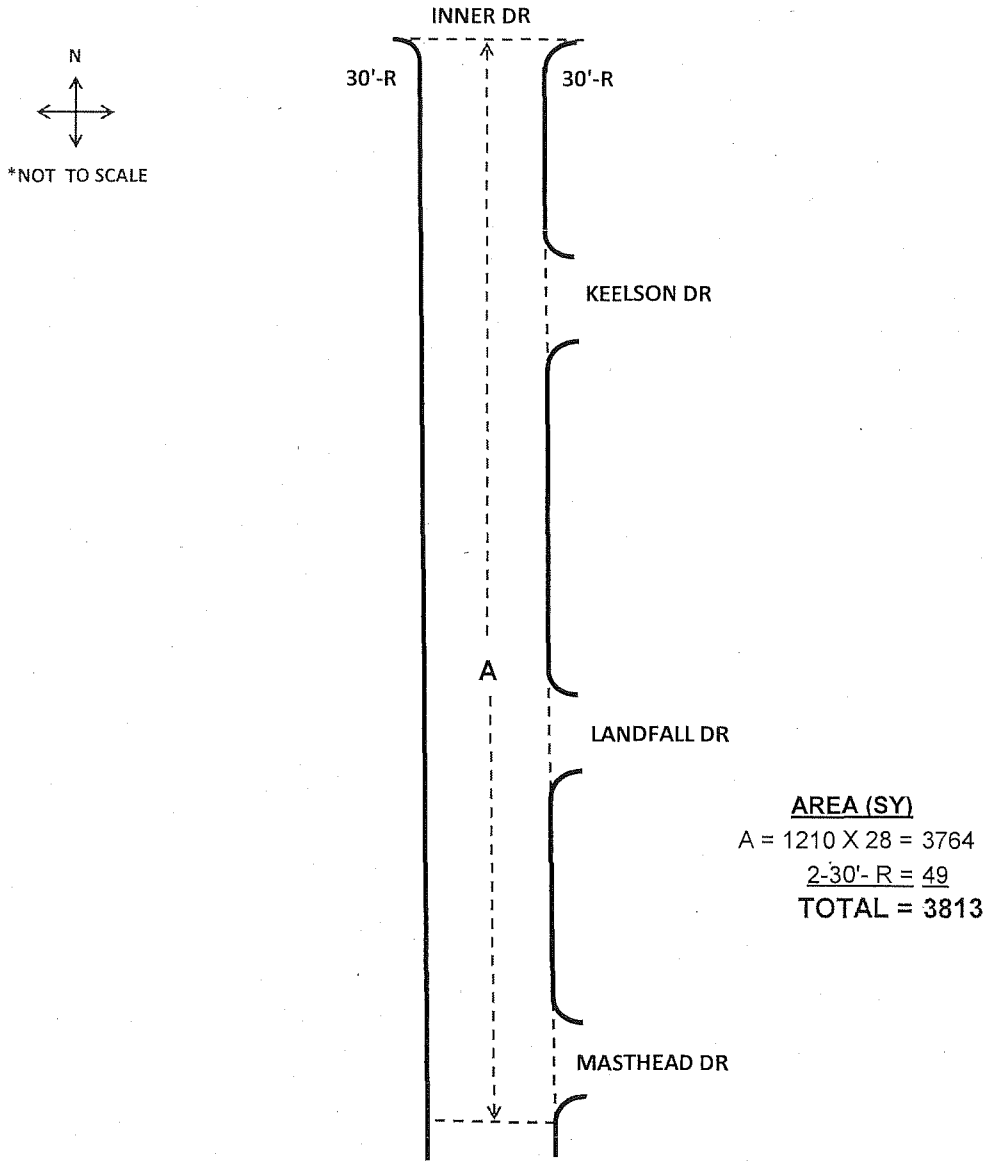
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>137</b> TON
ESTIMATED UNDERCUT		<b>130</b> CY
ESTIMATED BREAKER		<b>210</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>761</b> SY

# RESURFACING 2019

**STREET NAME: QUARTERDECK DR**  
**LIMITS: INNER DR TO MASTHEAD DR**

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**ITEMS**

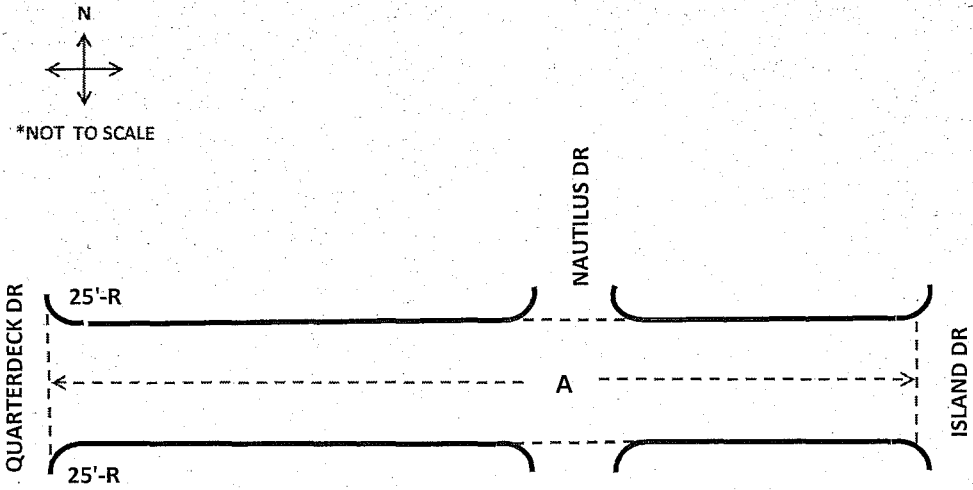
TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER    3" - 4 LT 58-28 S	<b>687</b> TON
ESTIMATED UNDERCUT	<b>640</b> CY
ESTIMATED BREAKER	<b>1,025</b> TON
RAMPING SAS	SY
ASPHALT REJUVENATOR	<b>3,813</b> SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>3,813</b> SY



# RESURFACING 2019

**STREET NAME: MASTHEAD DR**

**LIMITS: QUARTERDECK DR TO NAUTILUS DR**



**AREA (SY)**  
 $A = 1622 \times 28 = 5046$   
 $2 \times 25' - R = 35$   
**TOTAL = 5081**

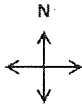
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>915</b> TON
ESTIMATED UNDERCUT	<b>850</b> CY
ESTIMATED BREAKER	<b>1,360</b> TON
RAMPING SAS	SY
ASPHALT REJUVENATOR	<b>5,081</b> SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>5,081</b> SY

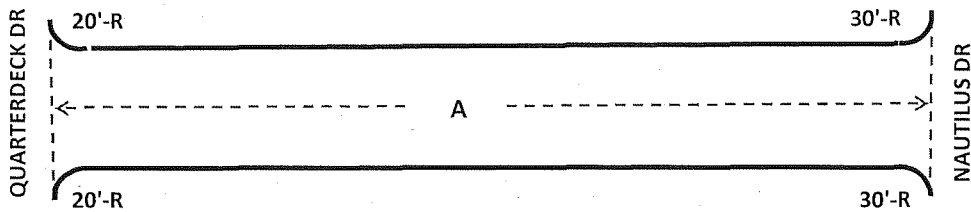
# RESURFACING 2019

STREET NAME: LANDFALL DR

LIMITS: QUARTERDECK DR TO NAUTILUS DR



\*NOT TO SCALE



### AREA (SY)

$$A = 1530 \times 28 = 4760$$

$$2 \times 20' - R = 23$$

$$2 \times 30' - R = 49$$

$$\text{TOTAL} = 4832$$

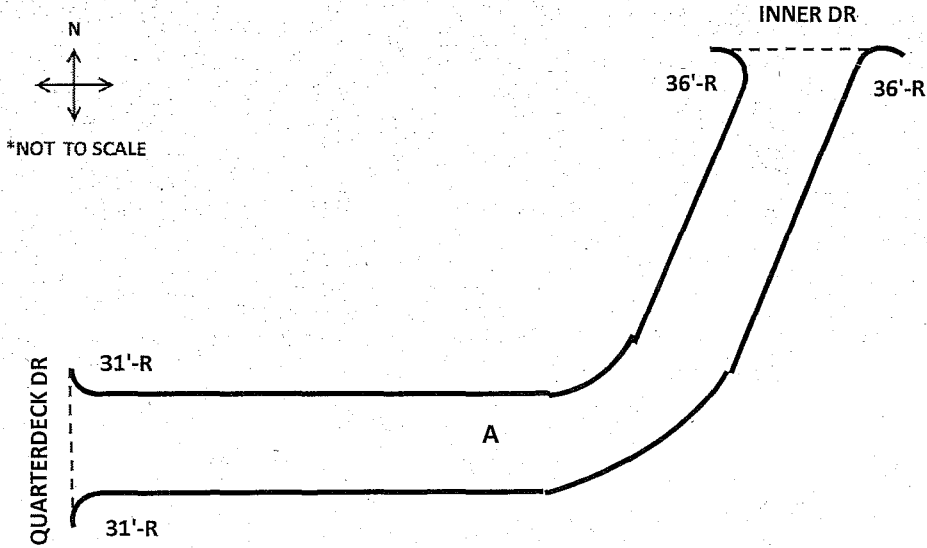
### ITEMS

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>870</b> TON
ESTIMATED UNDERCUT	<b>810</b> CY
ESTIMATED BREAKER	<b>1,295</b> TON
RAMPING SAS	SY
ASPHALT REJUVENATOR	<b>4,832</b> SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>4,832</b> SY

# RESURFACING 2019

**STREET NAME: KEELSON DR**

**LIMITS: QUARTERDECK DR TO INNER DR**



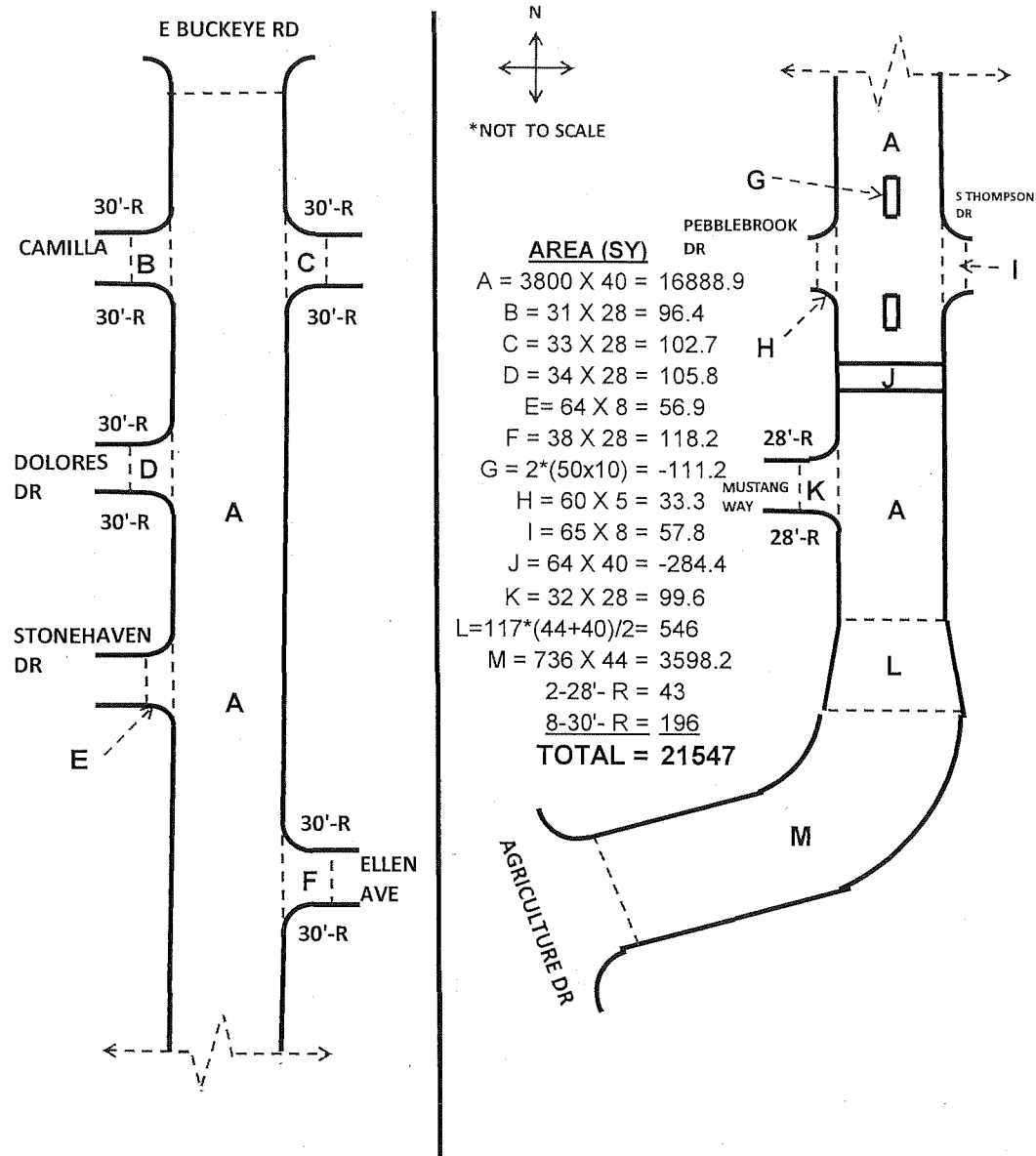
**AREA (SY)**  
 A = 1385 X 28 = 4309  
 2-36'-R = 69  
 2-31'-R = 52  
**TOTAL = 4430**

**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>797</b> TON
ESTIMATED UNDERCUT	<b>740</b> CY
ESTIMATED BREAKER	<b>1,185</b> TON
RAMPING SAS	SY
ASPHALT REJUVENATOR	<b>4,430</b> SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>4,430</b> SY

# RESURFACING 2019

**STREET NAME: VONDRON RD & PFLAUM RD**  
**LIMITS: E BUCKEYE RD TO AGRICULTURE DR**



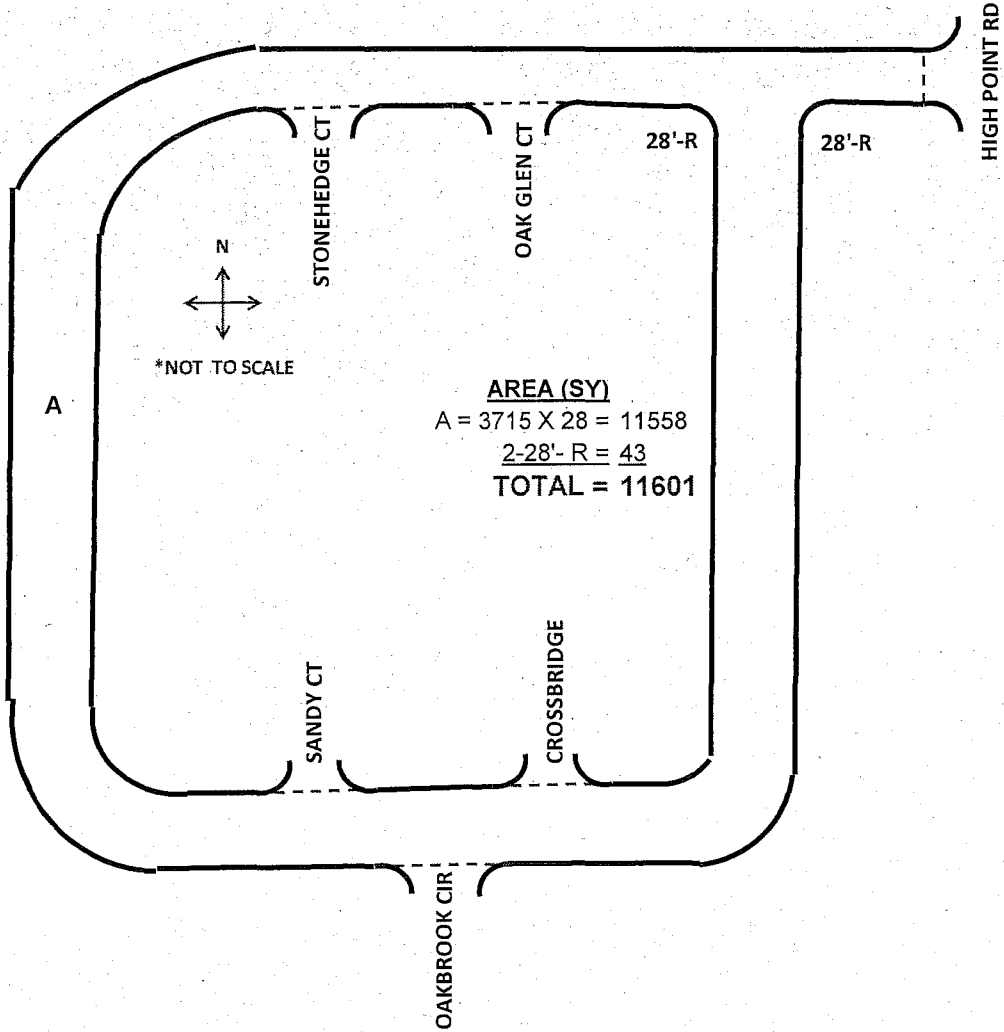
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER	2.5" - 3 MT 58-28 S	<b>3,233</b> TON
HMA UPPER LAYER	2" - 4 MT 58-28 S	<b>2,586</b> TON
ESTIMATED UNDERCUT		<b>3,610</b> CY
ESTIMATED BREAKER		<b>5,775</b> TON
BASE PATCH GRINDING METHOD 3	ESTIMATED	SY
BASE PATCH GRINDING METHOD 5	ESTIMATED	SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>21,547</b> SY

# RESURFACING 2019

STREET NAME: WEST & EAST OAKBROOK CIR

LIMITS: HIGH POINT RD TO OAKBROOK CIR



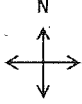
## ITEMS

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>2,088</b> TON
ESTIMATED UNDERCUT		<b>1,945</b> CY
ESTIMATED BREAKER		<b>3,115</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>11,601</b> SY

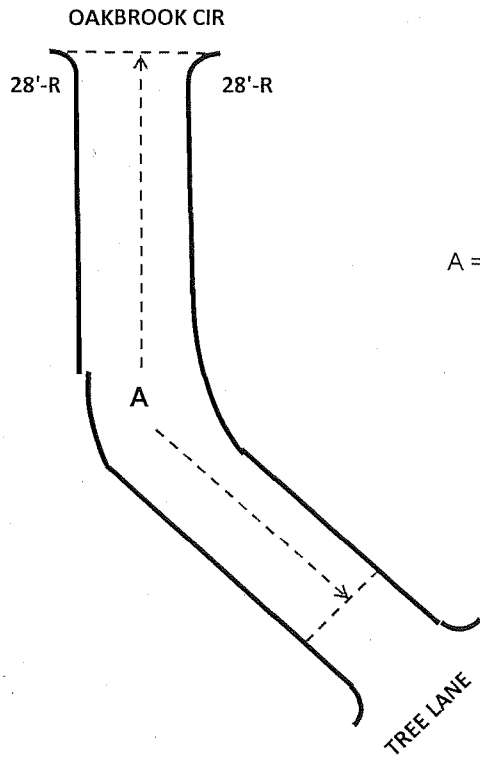
# RESURFACING 2019

STREET NAME: OAKBROOK CIR

LIMITS: OAKBROOK CIR TO TREE LN



\*NOT TO SCALE



**AREA (SY)**

$A = 200 \times 36 = 800$

$\frac{2 \times 28' - R}{2} = 43.0$

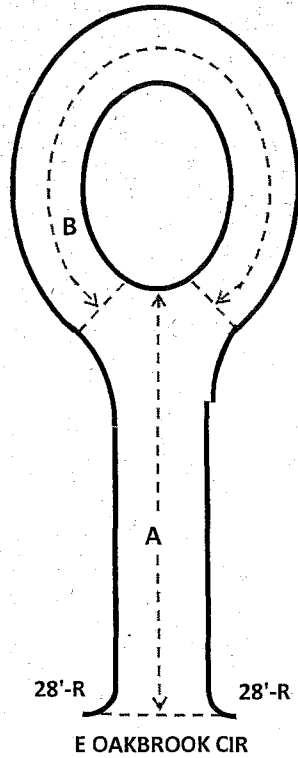
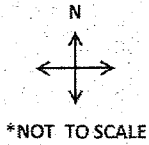
**TOTAL = 843**

**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>152</b> TON
ESTIMATED UNDERCUT		<b>140</b> CY
ESTIMATED BREAKER		<b>225</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>843</b> SY

# RESURFACING 2019

**STREET NAME: CROSSBRIDGE COURT**  
**LIMITS: E OAKBROOK CIR TO NORTH END**



**AREA (SY)**

A = 340 X 28 = 1058  
 B = 240 X 21 = 560  
 2-28'-R = 43  
**TOTAL = 1661**

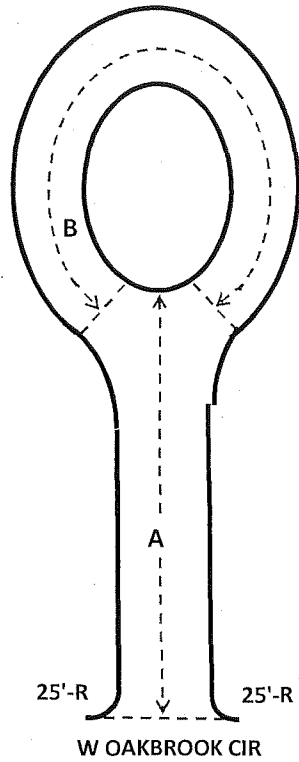
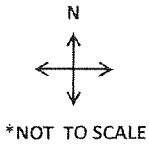
**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>299</b> TON
ESTIMATED UNDERCUT		<b>280</b> CY
ESTIMATED BREAKER		<b>450</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>1,661</b> SY

# RESURFACING 2019

**STREET NAME: SANDY COURT**

**LIMITS: W OAKBROOK CIR TO NORTH END**



**AREA (SY)**

A = 300 X 28 = 933

B = 240 X 21 = 560

2-25'-R = 34.8

**TOTAL = 1528**

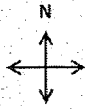
**ITEMS**

TACK COAT	GAL
HMA LOWER LAYER	TON
HMA UPPER LAYER 3" - 4 LT 58-28 S	<b>275</b> TON
ESTIMATED UNDERCUT	<b>260</b> CY
ESTIMATED BREAKER	<b>415</b> TON
RAMPING SAS	SY
WEDGE CUT GRINDING CONCRETE	SY
FULL WIDTH GRINDING	SY
PULVERIZE	<b>1,528</b> SY

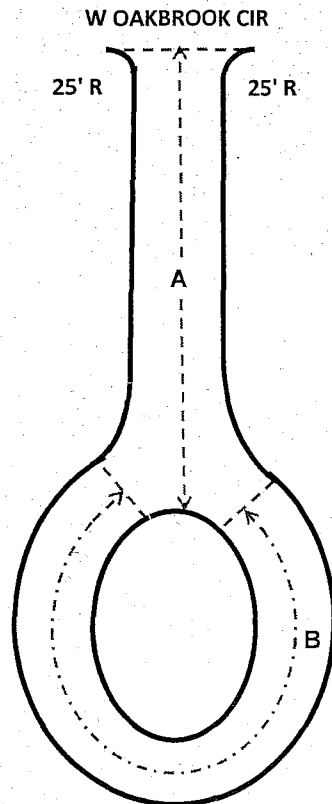


# RESURFACING 2019

**STREET NAME: STONEHEDGE COURT**  
**LIMITS: W OAKBROOK CIR TO SOUTH END**



\*NOT TO SCALE



**AREA (SY)**

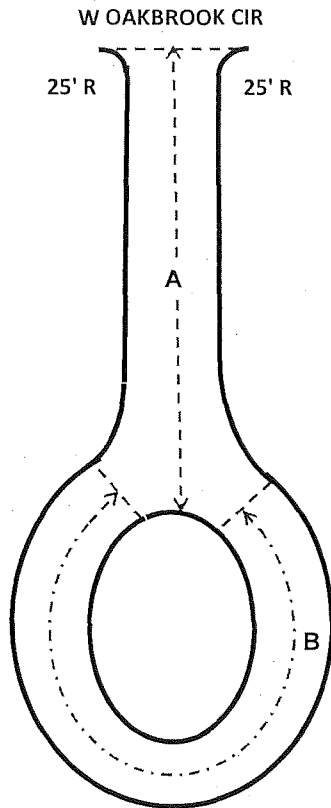
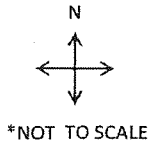
A = 295 X 28 = 917.8  
 B = 235 X 21 = 548.3  
 2-25'- R = 34.8  
**TOTAL = 1501**

**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>270</b> TON
ESTIMATED UNDERCUT		<b>250</b> CY
ESTIMATED BREAKER		<b>400</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>1,501</b> SY

# RESURFACING 2019

**STREET NAME: OAK GLEN COURT**  
**LIMITS: W OAKBROOK CIR TO SOUTH END**



**AREA (SY)**

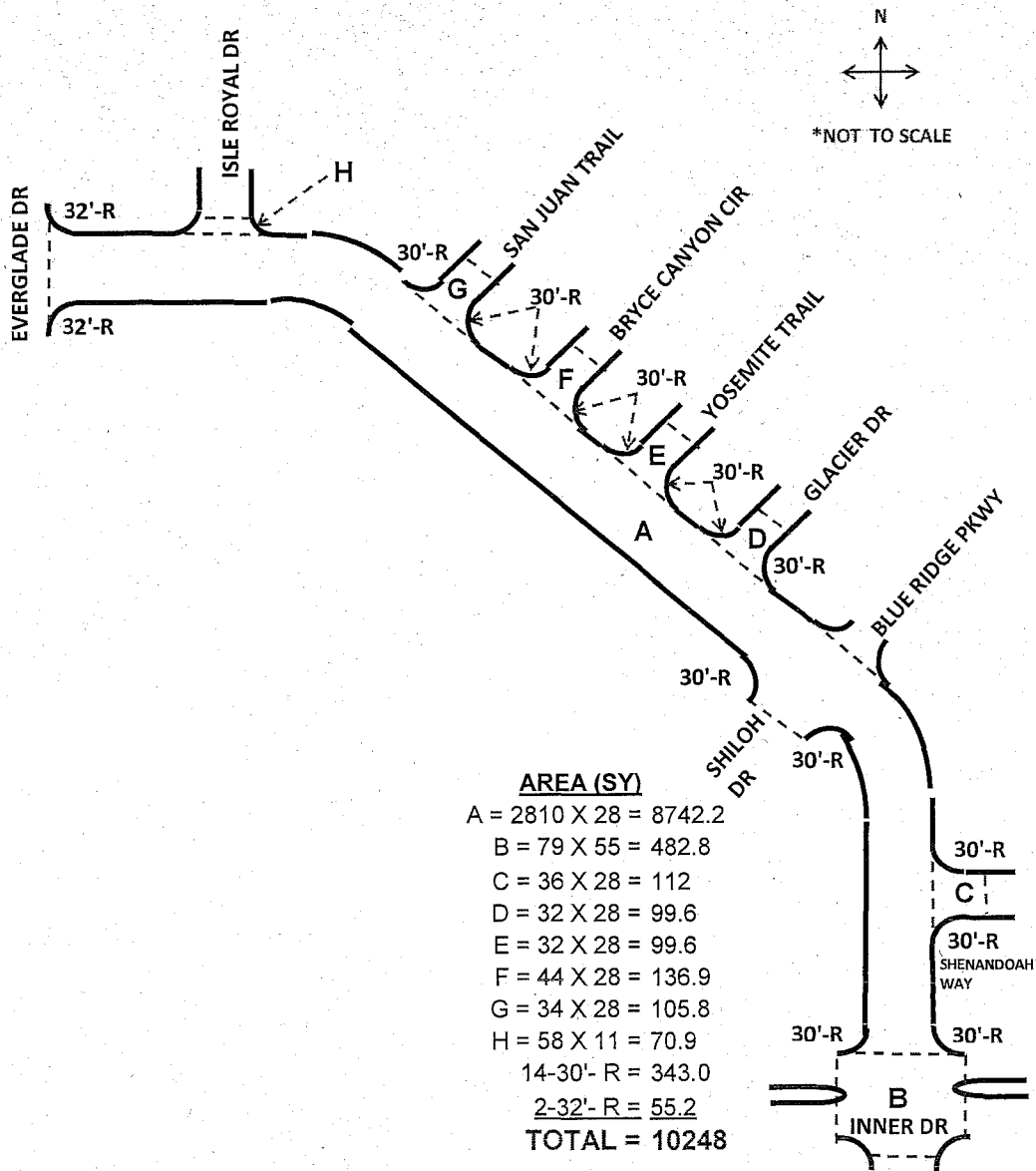
A = 295 X 28 = 917.8  
 B = 235 X 21 = 548.3  
 2-25'- R = 34.8  
**TOTAL = 1501**

**ITEMS**

TACK COAT		GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER	3" - 4 LT 58-28 S	<b>270</b> TON
ESTIMATED UNDERCUT		<b>250</b> CY
ESTIMATED BREAKER		<b>400</b> TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING		SY
PULVERIZE		<b>1,501</b> SY

# RESURFACING 2019

STREET NAME: N YELLOWSTONE DR  
 LIMITS: EVERGLADE DR TO INNER DR

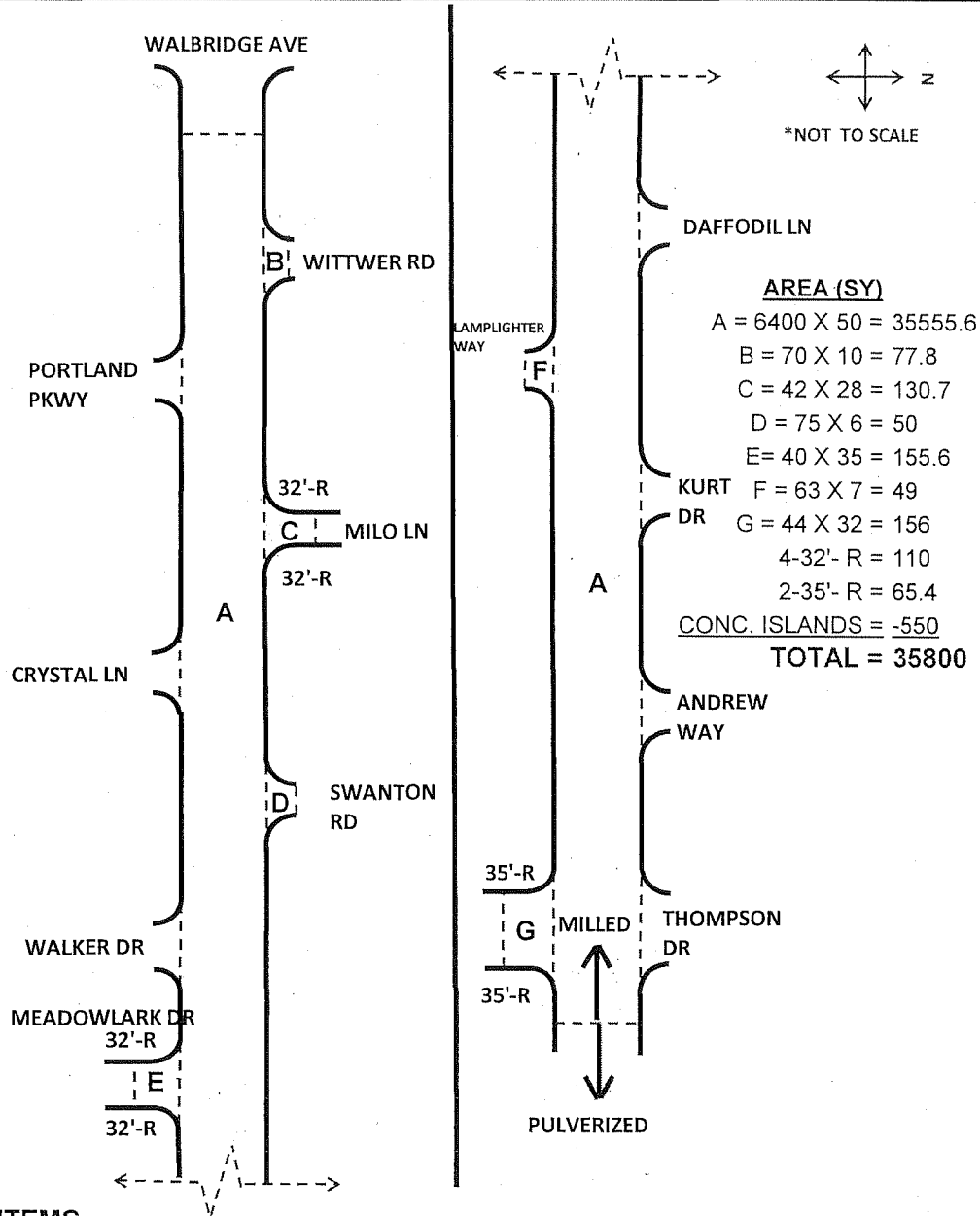


## ITEMS

TACK COAT		GAL
HMA LOWER LAYER	2.25" - 3 LT 58-28 S	1,383 TON
HMA UPPER LAYER	1.75" - 4 LT 58-28 S	1,075 TON
ESTIMATED UNDERCUT		1,720 CY
ESTIMATED BREAKER		2,750 TON
RAMPING SAS		SY
ASPHALT REJUVENATOR		10,248 SY
FULL WIDTH GRINDING		SY
PULVERIZE		10,248 SY

# RESURFACING 2019

**STREET NAME: MILWAUKEE STREET**  
**LIMITS: WALBRIDGE AVE TO I-90 BRIDGE**



**AREA (SY)**

A = 6400 X 50 = 35555.6

B = 70 X 10 = 77.8

C = 42 X 28 = 130.7

D = 75 X 6 = 50

E = 40 X 35 = 155.6

F = 63 X 7 = 49

G = 44 X 32 = 156

4-32'-R = 110

2-35'-R = 65.4

CONC. ISLANDS = -550

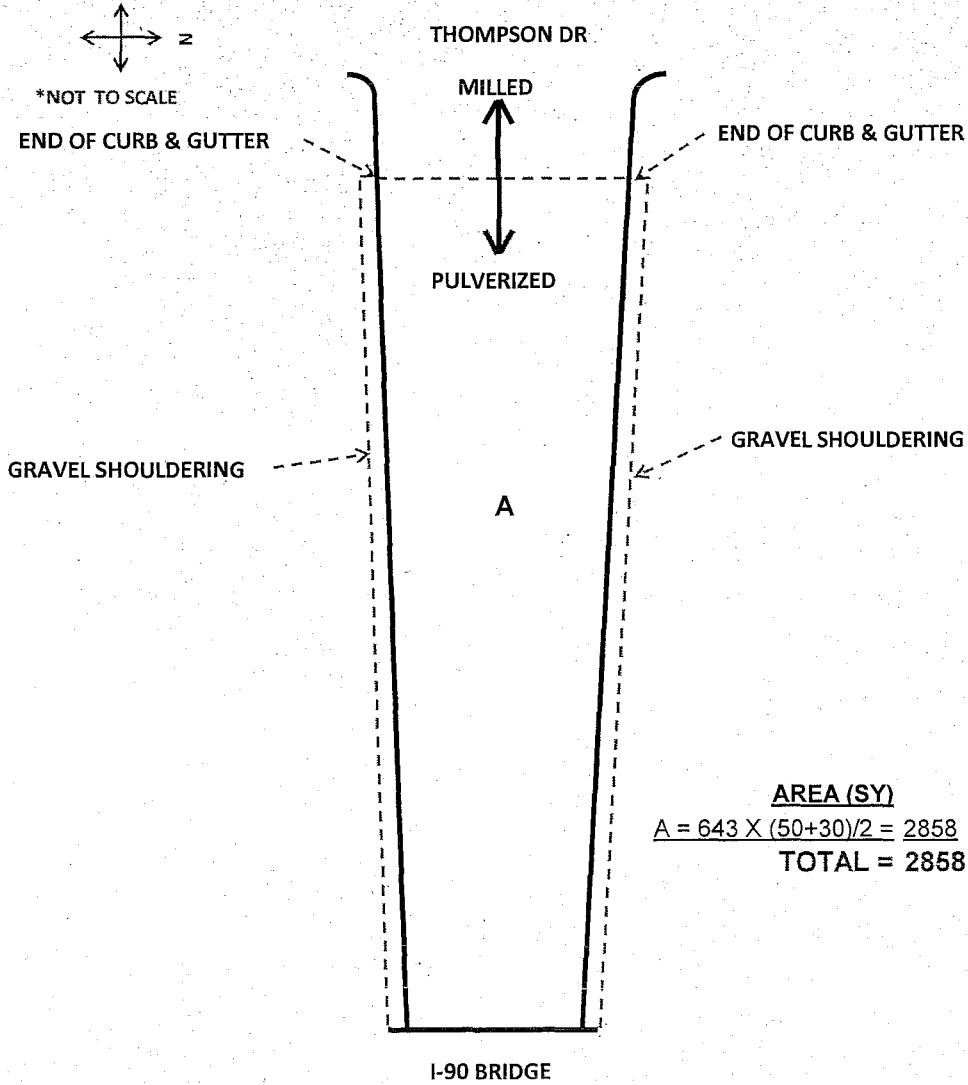
**TOTAL = 35800**

**ITEMS**

TACK COAT		1,800	GAL
HMA LOWER LAYER			TON
HMA UPPER LAYER	3" - 4 MT 58-28 S	6,444	TON
ESTIMATED UNDERCUT			CY
BASE PATCH GRINDING METHOD 2	ESTIMATED	500	SY
BASE PATCH GRINDING METHOD 3	ESTIMATED	1,500	SY
BASE PATCH GRINDING METHOD 5	ESTIMATED	1,000	SY
FULL WIDTH GRINDING		35,800	SY
ASPHALT REJUVENATOR		35,800	SY

# RESURFACING 2019

**STREET NAME: MILWAUKEE STREET**  
**LIMITS: THOMPSON DR TO I-90 BRIDGE**



**ITEMS**

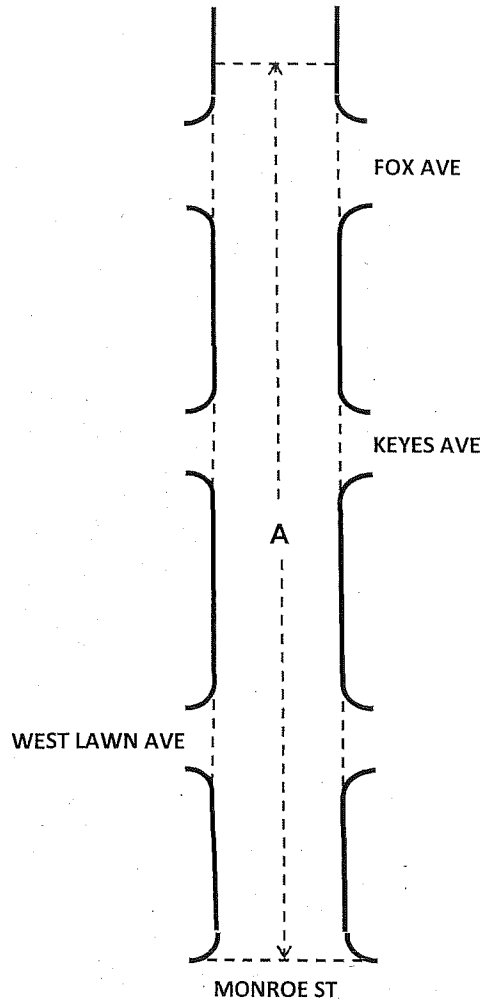
TACK COAT		GAL
HMA LOWER LAYER	3.25" - 3 MT 58-28 S	572 TON
HMA UPPER LAYER	2" - 4 MT 58-28 S	343 TON
ESTIMATED UNDERCUT		480 CY
ESTIMATED BREAKER		770 TON
SHOULDERING		1,290 FT
ASPHALT REJUVENATOR		2,858 SY
FULL WIDTH GRINDING		SY
PULVERIZE		2,858 SY

# RESURFACING 2019

**STREET NAME: EDGEWOOD AVE**  
**LIMITS: MONROE ST TO FOX AVE**



\*NOT TO SCALE



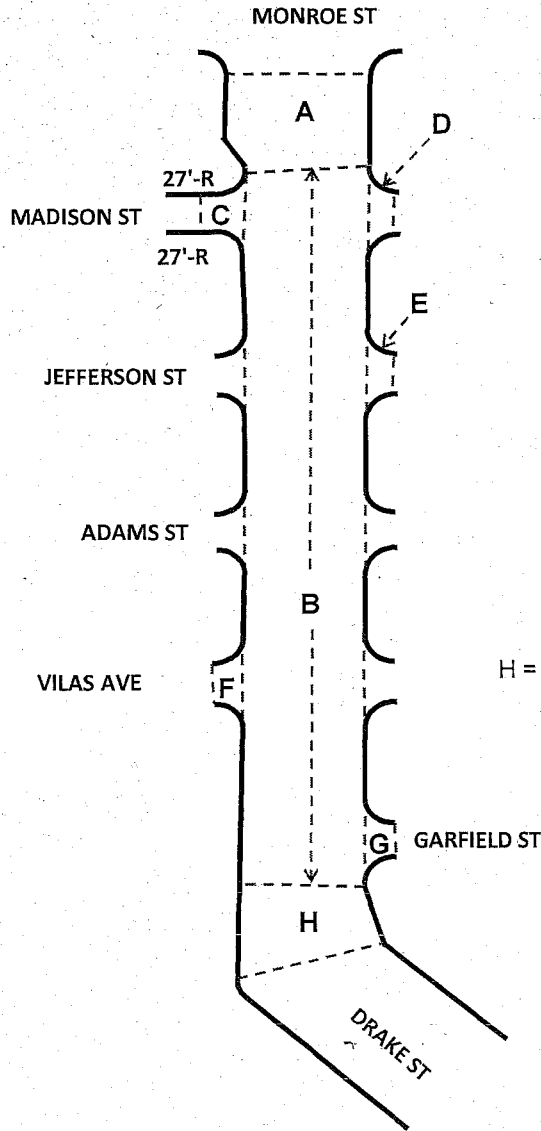
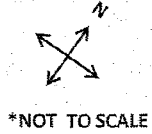
**AREA (SY)**  
 $A = 1100 \times 26 = 3180.0$   
**TOTAL = 3180**

**ITEMS**

TACK COAT	<b>160</b>	GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER 2" - 4 LT 58-28 S	<b>382</b>	TON
ESTIMATED UNDERCUT		CY
ESTIMATED BREAKER		TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING	<b>3,180</b>	SY
PULVERIZE		SY

# RESURFACING 2019

**STREET NAME: GRANT ST**  
**LIMITS: MONROE ST TO DRAKE ST**



<u>AREA (SY)</u>
A = 130 X 32 = 462.2
B = 1400 X 26 = 4044.5
C = 24 X 20 = 53.3
D = 47 X 8 = 41.8
E = 46 X 13 = 66.5
F = 42 X 14 = 65.3
G = 50 X 12 = 66.7
H = 50 X (33+26)/2 = 164
<u>2-27'-R = 40</u>
<b>TOTAL = 5004</b>

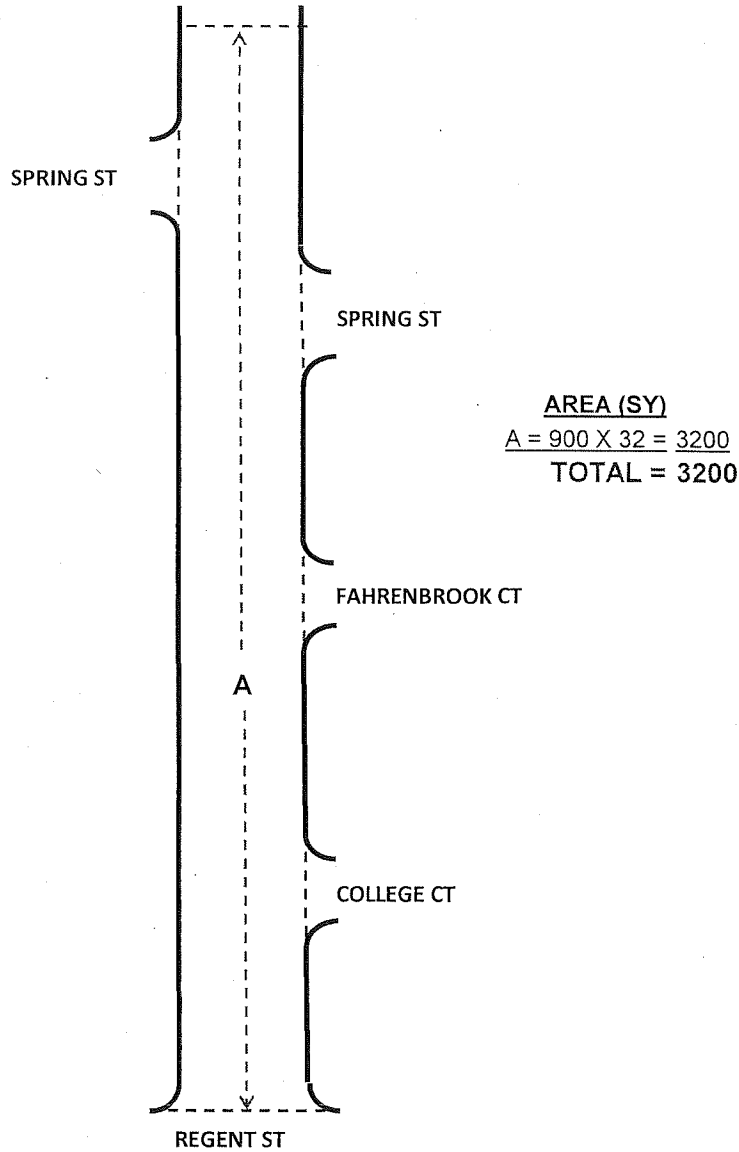
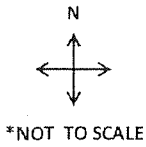
**ITEMS**

TACK COAT	<b>250</b>	GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER 2" - 4 LT 58-28 S	<b>600</b>	TON
ESTIMATED UNDERCUT		CY
ESTIMATED BREAKER		TON
RAMPING SAS		SY
ASPHALT REJUVENATOR	<b>5,004</b>	SY
FULL WIDTH GRINDING	<b>5,004</b>	SY
PULVERIZE		SY

# RESURFACING 2019

**STREET NAME: N MILLS ST**

**LIMITS: REGENT ST TO NORTH OF SPRING ST (BIKE PATH)**



**ITEMS**

TACK COAT	<b>160</b>	GAL
HMA LOWER LAYER		TON
HMA UPPER LAYER 2" - 4 LT 58-28 S	<b>384</b>	TON
ESTIMATED UNDERCUT		CY
ESTIMATED BREAKER		TON
RAMPING SAS		SY
WEDGE CUT GRINDING CONCRETE		SY
FULL WIDTH GRINDING	<b>3,200</b>	SY
PULVERIZE		SY

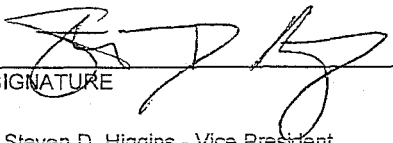


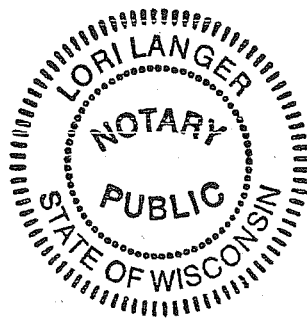
SECTION E: BIDDERS ACKNOWLEDGEMENT

RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING  
CONTRACT NO. 8319

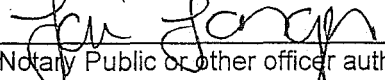
Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2019 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda Nos. 0 through 0 to the Contract, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
4. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. (IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).
5. I hereby certify that all statements herein are made on behalf of Payne & Dolan, Inc. (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of Wisconsin a partnership consisting of \_\_\_\_\_; an individual trading as \_\_\_\_\_; of the City of \_\_\_\_\_ State of \_\_\_\_\_; that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf; and that the said statements are true and correct.

  
 \_\_\_\_\_  
 SIGNATURE  
 \_\_\_\_\_  
 Steven D. Higgins - Vice President  
 \_\_\_\_\_  
 TITLE, IF ANY



Sworn and subscribed to before me this  
28th day of February, 2019.

  
 \_\_\_\_\_  
 (Notary Public or other officer authorized to administer oaths)  
 My Commission Expires 2/19/2023

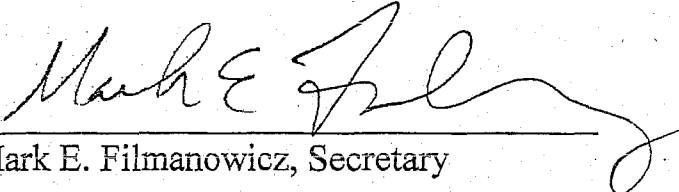
Bidders shall not add any conditions or qualifying statements to this Proposal.

**CERTIFICATE OF CORPORATE RESOLUTION  
PART OF THE MINUTES OF MEETING OF DIRECTORS**

**RESOLVED**, that Kurt Bechthold, Mark E. Filmanowicz , Edward A. Reesman, Steven D. Higgins, Charles E. Bechthold, Brian Endres, John C. Bartoszek, Diane Gadzialinski, Kelly Hetherington, Michael Wickler, David L. Bechthold, Raymond A. Postotnik, Doug W. Buth, Todd B. Hughes, Anthony P. Bodway, Tyler Winter, Christopher J. Winiecki, Carrie Van Vonderen and Brian Wallace shall have the authority to sign all contracts for and within the State of Wisconsin and on behalf of Payne and Dolan, Inc.

I, Mark E. Filmanowicz, do hereby certify that I am the duly elected and qualified Secretary and the custodian of the records of Payne and Dolan, Inc., a corporation organized and existing under and by virtue of the laws of the State of Wisconsin; that the foregoing is a true and correct copy of a certain resolution duly adopted at a meeting of the Board of Directors of said corporation convened and held in accordance with the law and the bylaws of said corporation on the 5<sup>th</sup> day of December 2018, and that such resolution is now in full force and effect.

**IN WITNESS WHEREOF**, I have signed my name this 28th day of February, 2019.

  
\_\_\_\_\_  
Mark E. Filmanowicz, Secretary

Contract 8319 – Payne & Dolan, Inc.

Section F: Best Value Contracting (BVC)

This section is a required document for the bid to be considered complete. There are two methods for completing the Best Value Contracting (BVC) form. Method one: The form can be filled out online and submitted to this site to be included with your electronic bid. Method two: The form can be downloaded from the site and submitted by hand to the City of Madison.

Method of Submittal for BVC (click in box below to choose) \*

I will submit Bid Express fillable online form (BVC).

Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

- Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.
- No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.
- Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.
- First time contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.
- Contractor has been in business less than one year.
- Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade.
- An exemption is granted in accordance with a time period of a "Documented Depression" as defined by the State of Wisconsin.

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- BRICKLAYER
- CARPENTER
- CEMENT MASON / CONCRETE FINISHER
- CEMENT MASON (HEAVY HIGHWAY)
- CONSTRUCTION CRAFT LABORER
- DATA COMMUNICATION INSTALLER
- ELECTRICIAN
- ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
- GLAZIER
- HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- INSULATION WORKER (HEAT and FROST)
- IRON WORKER
- IRON WORKER (ASSEMBLER, METAL BLDGS)
- PAINTER and DECORATOR
- PLASTERER
- PLUMBER
- RESIDENTIAL ELECTRICIAN
- ROOFER and WATER PROOFER
- SHEET METAL WORKER
- SPRINKLER FITTER
- STEAMFITTER
- STEAMFITTER (REFRIGERATION)
- STEAMFITTER (SERVICE)
- TAPER and FINISHER
- TELECOMMUNICATIONS (VOICE, DATA and VIDEO) INSTALLER-TECHNICIAN
- TILE SETTER

**CONTRACT NO. 8319**

**Small Business Enterprise Compliance Report**

This information may be submitted electronically through Bid Express or submitted with bid in sealed envelope.

**Cover Sheet**

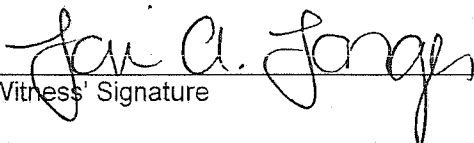
Prime Bidder Information

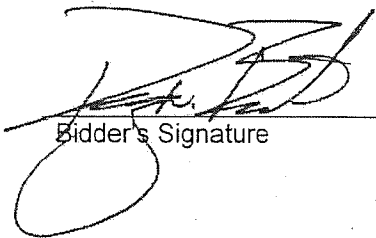
Company:	Payne & Dolan, Inc.
Address:	6295 Lacy Road, Fitchburg, WI 53593
Telephone Number:	608-845-8900
Fax Number:	608-845-8884
Contact Person/Title:	Sam Bilhorn - Project Manager / cell: 608-445-0318

Prime Bidder Certification

Name:	Douglas W. Buth
Title:	Area Manager
Company:	Payne & Dolan, Inc.

I certify that the information contained in this SBE Compliance Report is true and correct to the best of my knowledge and belief.

  
\_\_\_\_\_  
Witness' Signature

  
\_\_\_\_\_  
Bidder's Signature

2/28/2019  
Date

**CONTRACT NO. 8319**

**Small Business Enterprise Compliance Report**

**Summary Sheet**

SBE Subcontractors Who Are NOT Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
Bullet Transit Company, Inc.	Trucking	3.5 %
CA Brumm Trucking, Inc.	Trucking	1.5 %
Steven S. Brumm Trucking, Inc.	Trucking	1 %
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
		%
<b>Subtotal SBE who are NOT suppliers:</b>		<u>6 %</u>

SBE Subcontractors Who Are Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount
		%
		%
		%
		%
		%
		%
		%
<b>Subtotal Contractors who are suppliers:</b>		_____ % x 0.6 = _____ % (discounted to 60%)

**Total Percentage of SBE Utilization:** 6 %.

RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING

CONTRACT NO. 8319

DATE: 2/28/19

Payne & Dolan, Inc.

Item	Quantity	Price	Extension
<b>Section B: Proposal Page</b>			
10701A - TRAFFIC CONTROL - GROUP A - LUMP SUM	1.00	\$250.00	\$250.00
10701B - TRAFFIC CONTROL - GROUP B - LUMP SUM	1.00	\$250.00	\$250.00
10701C - TRAFFIC CONTROL - GROUP C - LUMP SUM	1.00	\$250.00	\$250.00
10701D - TRAFFIC CONTROL - GROUP D - LUMP SUM	1.00	\$250.00	\$250.00
10701E - TRAFFIC CONTROL - GROUP E - LUMP SUM	1.00	\$250.00	\$250.00
10701F - TRAFFIC CONTROL - GROUP F - LUMP SUM	1.00	\$250.00	\$250.00
10701G - TRAFFIC CONTROL - GROUP G - LUMP SUM	1.00	\$250.00	\$250.00
10701H - TRAFFIC CONTROL - GROUP H - LUMP SUM	1.00	\$250.00	\$250.00
10701I - TRAFFIC CONTROL - GROUP I - LUMP SUM	1.00	\$250.00	\$250.00
10701J - TRAFFIC CONTROL - GROUP J - LUMP SUM	1.00	\$250.00	\$250.00
10701K - TRAFFIC CONTROL - GROUP K - LUMP SUM	1.00	\$250.00	\$250.00
10701L - TRAFFIC CONTROL - GROUP L - LUMP SUM	1.00	\$250.00	\$250.00
10701M - TRAFFIC CONTROL - GROUP M - LUMP SUM	1.00	\$250.00	\$250.00
10701N - TRAFFIC CONTROL - GROUP N - LUMP SUM	1.00	\$250.00	\$250.00
10701O - TRAFFIC CONTROL - GROUP O - LUMP SUM	1.00	\$250.00	\$250.00
10701R - TRAFFIC CONTROL - LOCAL STREET (undistributed) - EACH	1.00	\$250.00	\$250.00
10701S - TRAFFIC CONTROL - MAJOR STREET, two lanes (undistributed) - EACH	1.00	\$250.00	\$250.00
10701T - TRAFFIC CONTROL - MAJOR STREET, more than two lanes (undistributed) - EACH	1.00	\$250.00	\$250.00
10720.0 - TRAFFIC CONTROL SIGN - PORTABLE ARROW BOARD - DAYS	80.00	\$20.00	\$1,600.00
10721.0 - TRAFFIC CONTROL SIGN - PORTABLE CHANGEABLE MESSAGE - DAYS	60.00	\$70.00	\$4,200.00
10750.0 - RESET MONUMENT - EACH	3.00	\$900.00	\$2,700.00
10911A - MOBILIZATION - GROUP A - LUMP SUM	1.00	\$250.00	\$250.00
10911B - MOBILIZATION - GROUP B - LUMP SUM	1.00	\$250.00	\$250.00
10911C - MOBILIZATION - GROUP C - LUMP SUM	1.00	\$250.00	\$250.00
10911D - MOBILIZATION - GROUP D - LUMP SUM	1.00	\$250.00	\$250.00
10911E - MOBILIZATION - GROUP E - LUMP SUM	1.00	\$250.00	\$250.00
10911F - MOBILIZATION - GROUP F - LUMP SUM	1.00	\$250.00	\$250.00
10911G - MOBILIZATION - GROUP G - LUMP SUM	1.00	\$250.00	\$250.00
10911H - MOBILIZATION - GROUP H - LUMP SUM	1.00	\$250.00	\$250.00
10911I - MOBILIZATION - GROUP I - LUMP SUM	1.00	\$250.00	\$250.00
10911J - MOBILIZATION - GROUP J - LUMP SUM	1.00	\$250.00	\$250.00
10911K - MOBILIZATION - GROUP K - LUMP SUM	1.00	\$250.00	\$250.00
10911L - MOBILIZATION - GROUP L - LUMP SUM	1.00	\$250.00	\$250.00
10911M - MOBILIZATION - GROUP M - LUMP SUM	1.00	\$250.00	\$250.00
10911N - MOBILIZATION - GROUP N - LUMP SUM	1.00	\$250.00	\$250.00
10911O - MOBILIZATION - GROUP O - LUMP SUM	1.00	\$250.00	\$250.00
10911R - MOBILIZATION (undistributed) - EACH	1.00	\$250.00	\$250.00
20219.0 - BREAKER RUN - TON	42600.00	\$7.80	\$332,280.00
21031.0 - INLET PROTECTION, TYPE C - COMPLETE - EACH	95.00	\$50.00	\$4,750.00
21041.0 - INLET PROTECTION, TYPE D - COMPLETE - EACH	105.00	\$50.00	\$5,250.00
40102.0 - CRUSHED AGGREGATE BASE COURSE GRADE NO.2 OR NO.3 - TON	200.00	\$16.00	\$3,200.00
40201.0 - HMA PAVEMENT 3 LT 58-28 S - TON	1383.00	\$64.00	\$88,512.00
40202.0 - HMA PAVEMENT 4 LT 58-28 S - TON	18407.00	\$71.85	\$1,322,542.95
40203.0 - HMA PAVEMENT 3 MT 58-28 S - TON	10183.00	\$65.70	\$669,023.10

**RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING**

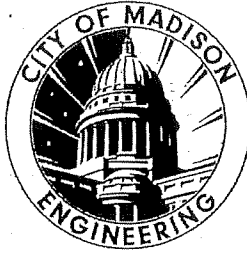
CONTRACT NO. 8319

DATE: 2/28/19

**Payne & Dolan, Inc.**

Item	Quantity	Price	Extension
40204.0 - HMA PAVEMENT 4 MT 58-28 S - TON	14352.00	\$71.85	\$1,031,191.20
40218.0 - TACK COAT - GAL	2845.00	\$2.10	\$5,974.50
40231.0 - ASPHALT DRIVE & TERRACE - RESURFACING - SY	400.00	\$20.00	\$8,000.00
40301.0 - FULL WIDTH GRINDING - SY	47184.00	\$1.00	\$47,184.00
40303.0 - WEDGE CUT GRINDING ASPHALT - SY	500.00	\$9.00	\$4,500.00
40304.0 - WEDGE CUT GRINDING CONCRETE - SY	200.00	\$9.00	\$1,800.00
40308.0 - RAMPING SAS - EA	14.00	\$150.00	\$2,100.00
40311.0 - PULVERIZE AND SHAPE - SY	158657.00	\$3.75	\$594,963.75
40321.0 - UNDERCUT - CY	26605.00	\$11.00	\$292,655.00
40332.0 - BASE PATCH GRINDING, METHOD 2 - SY	500.00	\$12.00	\$6,000.00
40333.0 - BASE PATCH GRINDING, METHOD 3 - SY	1500.00	\$15.00	\$22,500.00
40335.0 - BASE PATCH GRINDING, METHOD 5 - SY	1000.00	\$20.00	\$20,000.00
40361.0 - SAS ADJUSTING RING - EACH	5.00	\$200.00	\$1,000.00
40362.0 - ADJUST ACCESS STRUCTURE CASTING, RESURFACING - EACH	18.00	\$400.00	\$7,200.00
40363.0 - ADJUST CATCHBASIN CASTING, RESURFACING - EACH	1.00	\$400.00	\$400.00
40367.0 - ADJUST VALVE CASTING, METHOD #1 - RESURFACING - EACH	39.00	\$150.00	\$5,850.00
40369.0 - INSTALL ADJUSTABLE VALVE BOX RISER - EACH	10.00	\$150.00	\$1,500.00
40371.0 - REBUILD ACCESS STRUCTURE TOP - RESURFACING - EACH	1.00	\$600.00	\$600.00
40395.0 - REMOVE CONCRETE UTILITY PATCH - LF	200.00	\$10.00	\$2,000.00
60800.0 - PAVEMENT MARKING EPOXY, LINE, 4-INCH - L.F.	1000.00	\$0.45	\$450.00
60801.0 - PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH - L.F.	7670.00	\$0.90	\$6,903.00
60802.0 - PAVEMENT MARKING EPOXY, LINE, 6-INCH - L.F.	54490.00	\$0.60	\$32,694.00
60803.0 - PAVEMENT MARKING EPOXY, LINE, 8-INCH - L.F.	801.00	\$0.85	\$680.85
60812.0 - PAVEMENT MARKING EPOXY,CROSSWALK, 6-INCH - L.F.	7730.00	\$7.50	\$57,975.00
60814.0 - PAVEMENT MARKING EPOXY,CROSSWALK, 12-INCH - L.F.	70.00	\$8.75	\$612.50
60816.0 - PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK, 18-INCH - LF	1390.00	\$10.50	\$14,595.00
60818.0 - PAVEMENT MARKING EPOXY,STOP LINE, 24- INCH - LF	1105.00	\$13.25	\$14,641.25
60822.0 - PAVEMENT MARKING EPOXY,SYMBOL,BIKE SHARROW - EACH	2.00	\$205.00	\$410.00
60823.0 - PAVEMENT MARKING EPOXY,SYMBOL,BIKE LN - EACH	46.00	\$175.00	\$8,050.00
60829.0 - PAVEMENT MARKING EPOXY,SYMBOL,LEFT ARROW - EACH	2.00	\$210.00	\$420.00
60832.0 - PAVEMENT MARKING EPOXY, SYMBOL,STRAIGHT & LEFT ARROW - EACH	3.00	\$275.00	\$825.00
60833.0 - PAVEMENT MARKING EPOXY, SYMBOL,STRAIGHT &RIGHT ARROW - EACH	2.00	\$275.00	\$550.00
60834.0 - PAVEMENT MARKING EPOXY, WORD, ONLY - EACH	1.00	\$255.00	\$255.00
90001.0 - LIFT STATION PAVING - SY	410.00	\$19.00	\$7,790.00
90002.0 - ASPHALT REJUVENATOR - SY	72066.00	\$0.95	\$68,462.70
90003.0 - GRAVEL SHOULDERING - L.F.	1770.00	\$2.50	\$4,425.00
90004.0 - HIGH FRICTION COLORED SURFACE-BIKE LANE GREEN - S.F.	500.00	\$12.00	\$6,000.00
<b>81 Items</b>	<b>Totals</b>		<b>\$4,723,715.80</b>





Department of Public Works  
**Engineering Division**  
Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115  
210 Martin Luther King, Jr. Boulevard  
Madison, Wisconsin 53703  
Phone: (608) 266-4751  
Fax: (608) 264-9275  
[engineering@cityofmadison.com](mailto:engineering@cityofmadison.com)  
[www.cityofmadison.com/engineering](http://www.cityofmadison.com/engineering)

**Assistant City Engineer**

Gregory T. Fries, P.E.  
Kathleen M. Cryan

**Principal Engineer 2**

Christopher J. Petykowski, P.E.  
John S. Fahmey, P.E.

**Principal Engineer 1**

Christina M. Bachmann, P.E.  
Eric L. Dundee, P.E.

**Facilities & Sustainability**

Jeanne E. Hoffman, Manager

**Mapping Section Manager**

Eric T. Pederson, P.S.

**Financial Manager**

Steven B. Danner-Rivers

## BIENNIAL BID BOND

PAYNE & DOLAN, INC.

(a corporation of the State of WI)

(individual), (partnership), (hereinafter referred to as the "Principal") and

WESTERN SURETY COMPANY

a corporation of the State of SD (hereinafter referred to as the "Surety") and licensed to do business in the State of Wisconsin, are held and firmly bound unto the City of Madison, Wisconsin (hereinafter referred to as the "City"), in the sum equal to the individual proposal guaranty amounts of the total bid or bids of the Principal herein accepted by the City, for the payment of which the Principal and the Surety hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

The condition of this obligation is that the Principal has submitted to the City certain bids for projects from the time period of February 1, 2018 through January 31, 2020.

If the Principal is awarded the contract(s) by the City and, within the time and manner required by law after the prescribed forms are presented for its signature, the Principal enters into (a) written contract(s) in accordance with the bid(s), and files with the City its bond(s) guaranteeing faithful performance and payment for all labor and materials, as required by law, or if the City rejects all bids for the work described, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

In the event the Principal shall fail to execute and deliver the contract(s) or the performance and payment bond(s), all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to pay to the City within ten (10) calendar days of written demand a total equal to the sum of the individual proposal guaranty amounts of the total bid(s) as liquidated damages.

The Surety, for value received, hereby agrees that the obligations of it and its bond shall be in no way impaired or affected by any extension of time within which the City may accept a bid, and the Surety does hereby waive notice of any such extension.

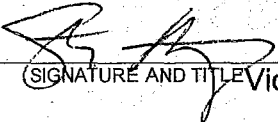
This bond may be terminated by the Surety upon giving thirty (30) days written notice to the City of its intent to terminate this bond and to be released and discharged therefrom, but such termination shall not operate to relieve or discharge the Surety from any liability already accrued or which shall accrue before the expiration of such thirty (30) day period.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

**PRINCIPAL**

PAYNE & DOLAN, INC.  
COMPANY NAME                      AFFIX SEAL

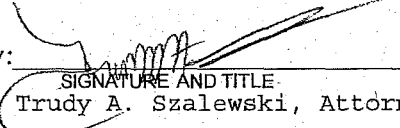
1/19/18  
DATE

By:   
\_\_\_\_\_  
SIGNATURE AND TITLE Vice President

**SURETY**

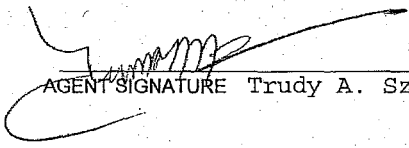
WESTERN SURETY COMPANY  
COMPANY NAME                      AFFIX SEAL

January 17, 2018  
DATE

By:   
\_\_\_\_\_  
SIGNATURE AND TITLE  
Trudy A. Szalewski, Attorney-in-fact

This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under National Provider No. 6502661 for the year 2018 and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked.

January 17, 2018  
DATE

  
AGENT SIGNATURE Trudy A. Szalewski

10700 Research Drive - #450  
ADDRESS

Milwaukee, WI 53226  
CITY, STATE AND ZIP CODE

414-225-5394  
TELEPHONE NUMBER

Note to Surety and Principal: Any bid submitted which this bond guarantees may be rejected if the Power of Attorney form showing that the Agent of Surety is currently authorized to execute bonds on behalf of Surety is not attached to this bond.

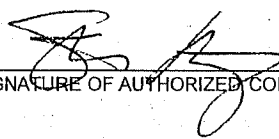
## CERTIFICATE OF BIENNIAL BID BOND

TIME PERIOD- VALID (FROM/TO) 2/1/2018 to 1/31/2020
NAME OF SURETY WESTERN SURETY COMPANY
NAME OF CONTRACTOR PAYNE & DOLAN, INC.
CERTIFICATE HOLDER City of Madison, Wisconsin

This is to certify that a biennial bid bond issued by the above-named Surety is currently on file with the City of Madison.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the biennial bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing Surety will give thirty (30) days written notice to the certificate holder indicated above.

  
\_\_\_\_\_  
SIGNATURE OF AUTHORIZED CONTRACTOR REPRESENTATIVE

1/19/18  
\_\_\_\_\_  
DATE

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Kelly Cody, Roxanne Jensen, Christopher Hovden, Individually of Green Bay, Wisconsin  
Trudy A. Szalewski, Christopher H. Kondrick, Brian Krause, Individually of Milwaukee, Wisconsin**

its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 9th day of March, 2017.

WESTERN SURETY COMPANY



*Paul T. Bruflat*

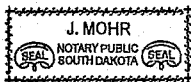
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 9th day of March, 2017, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



*J. Mohr*

J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 17<sup>th</sup> day of January, 2018.

WESTERN SURETY COMPANY



*L. Nelson*

L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

## SECTION H: AGREEMENT

THIS AGREEMENT made this 20 day of March in the year Two Thousand and Nineteen between PAYNE & DOLAN, INC. hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted MARCH 19, 2019, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

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2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.
3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of FOUR MILLION SEVEN HUNDRED TWENTY-THREE THOUSAND SEVEN HUNDRED FIFTEEN AND 80/100 (\$4,723,715.80) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.
4. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered.

The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

#### Articles of Agreement Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

#### Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

#### Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

#### Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

#### Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

#### Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.
2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.
3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or ten thousand dollars (\$10,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

#### Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

#### Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms "DBE, MBE and WBE" shall be substituted for the term "small business" in this Article.)

5. Substance Abuse Prevention Program Required. Prior to commencing work on the Contract, the Contractor, and any Subcontractor, shall have in place a written program for the prevention of substance abuse among its employees as required under Wis. Stat. Sec. 103.503.
6. **Contractor Hiring Practices.**

#### **Ban the Box - Arrest and Criminal Background Checks. (Sec. 39.08, MGO)**

This provision applies to all prime contractors on contracts entered into on or after January 1, 2016, and all subcontractors who are required to meet prequalification requirements under MGO 33.07(7)(l), MGO as of the first time they seek or renew pre-qualification status on or after January 1, 2016. The City will monitor compliance of subcontractors through the pre-qualification process.

- a. **Definitions.** For purposes of this section, "Arrest and Conviction Record" includes, but is not limited to, information indicating that a person has been questioned, apprehended, taken into custody or detention, held for investigation, arrested, charged with, indicted or tried for any felony, misdemeanor or other offense pursuant to any law enforcement or military authority.

"Conviction record" includes, but is not limited to, information indicating that a person has been convicted of a felony, misdemeanor or other offense, placed on probation, fined, imprisoned or paroled pursuant to any law enforcement or military authority.

"Background Check" means the process of checking an applicant's arrest and conviction record, through any means.

- b. **Requirements.** For the duration of this Contract, the Contractor shall:



1. Remove from all job application forms any questions, check boxes, or other inquiries regarding an applicant's arrest and conviction record, as defined herein.
2. Refrain from asking an applicant in any manner about their arrest or conviction record until after conditional offer of employment is made to the applicant in question.
3. Refrain from conducting a formal or informal background check or making any other inquiry using any privately or publicly available means of obtaining the arrest or conviction record of an applicant until after a conditional offer of employment is made to the applicant in question.
4. Make information about this ordinance available to applicants and existing employees, and post notices in prominent locations at the workplace with information about the ordinance and complaint procedure using language provided by the City.
5. Comply with all other provisions of Sec. 39.08, MGO.

**c. Exemptions:** This section shall not apply when:

1. Hiring for a position where certain convictions or violations are a bar to employment in that position under applicable law, or
2. Hiring a position for which information about criminal or arrest record, or a background check is required by law to be performed at a time or in a manner that would otherwise be prohibited by this ordinance, including a licensed trade or profession where the licensing authority explicitly authorizes or requires the inquiry in question.

To be exempt, Contractor has the burden of demonstrating that there is an applicable law or regulation that requires the hiring practice in question, if so, the contractor is exempt from all of the requirements of this ordinance for the position(s) in question.

**RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING  
CONTRACT NO. 8319**

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused this contract to be sealed with its corporate seal and to be executed by its Mayor and City Clerk on the dates written below.

Countersigned:

PAYNE & DOLAN, INC.

Company Name

*Myke A. Pratt* 3/20/19  
Witness Date

*[Signature]* 3/20/19  
President Date

*[Signature]* 3/20/19  
Witness Date

*Mark G. [Signature]* 3/20/19  
Secretary Date

Corporate Seal not required  
pursuant to § 180.0120 3(c)

CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

*[Signature]* 4/1/19  
Finance Director Date

*[Signature]* \_\_\_\_\_  
City Attorney Date

*[Signature]* 4.2.19  
Witness Date

*[Signature]* 4.2.19  
Mayor Date

*[Signature]* 3/27/19  
Witness Date

*[Signature]* 3-27-2019  
City Clerk Date

SECTION I: PAYMENT AND PERFORMANCE BOND Bond No. 30047492

KNOW ALL MEN BY THESE PRESENTS, that we PAYNE & DOLAN, INC. as principal, and Western Surety Company of 151 N. Franklin St, Chicago, IL 60606 as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of FOUR MILLION SEVEN HUNDRED TWENTY-THREE THOUSAND SEVEN HUNDRED FIFTEEN AND 80/100 (\$4,723,715.80) Dollars, lawful money of the United States, for the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully perform all of the terms of the Contract entered into between him/herself and the City of Madison for the construction of:

RESURFACING 2019 - ASPHALT PAVEMENT PULVERIZING, MILLING & PAVING CONTRACT NO. 8319

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the prosecution of said work, and save the City harmless from all claims for damages because of negligence in the prosecution of said work, and shall save harmless the said City from all claims for compensation (under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is to be void, otherwise of full force, virtue and effect.

Signed and sealed this 20th day of March, 2019

Countersigned:

PAYNE & DOLAN, INC. Corporate Seal not required pursuant to § 180.0120 3(c)  
Company Name (Principal)

Witness Myela D. Pratt

[Signature] President Seal

Secretary Mark S. [Signature]

Approved as to form:

Western Surety Company  
Surety Seal  
 Salary Employee  Commission  
By Roxanne Jensen  
Attorney-in-Fact Roxanne Jensen

[Signature]  
City Attorney

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Producer Number 9042226 for the year 2019, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

March 20, 2019  
Date

Roxanne Jensen  
Agent Signature

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Kelly Cody, Roxanne Jensen, Christopher Hovden, Individually of Green Bay, Wisconsin  
Trudy A. Szalewski, Christopher H. Kondrick, Brian Krause, Individually of Milwaukee, Wisconsin**

Its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 8th day of February, 2019.



WESTERN SURETY COMPANY

*Paul T. Bruflat*

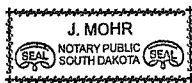
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 8th day of February, 2019, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



*J. Mohr*

J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 20th day of March, 2019.



WESTERN SURETY COMPANY

*L. Nelson*

L. Nelson, Assistant Secretary

**Authorizing By-Law**

**ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY**

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

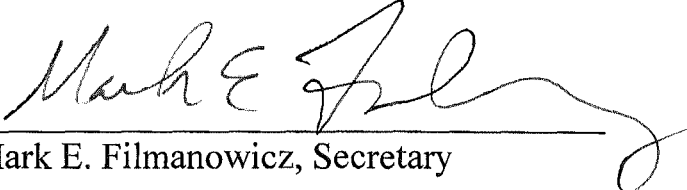
Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

**CERTIFICATE OF CORPORATE RESOLUTION  
PART OF THE MINUTES OF MEETING OF DIRECTORS**

**RESOLVED**, that Kurt Bechthold, Mark E. Filmanowicz , Edward A. Reesman, Steven D. Higgins, Charles E. Bechthold, Brian Endres, John C. Bartoszek, Diane Gadzalinski, Kelly Hetherington, Michael Wickler, David L. Bechthold, Raymond A. Postotnik, Doug W. Buth, Todd B. Hughes, Anthony P. Bodway, Tyler Winter, Christopher J. Winiecki, Carrie Van Vonderen and Brian Wallace shall have the authority to sign all contracts for and within the State of Wisconsin and on behalf of Payne and Dolan, Inc.

I, Mark E. Filmanowicz, do hereby certify that I am the duly elected and qualified Secretary and the custodian of the records of Payne and Dolan, Inc., a corporation organized and existing under and by virtue of the laws of the State of Wisconsin; that the foregoing is a true and correct copy of a certain resolution duly adopted at a meeting of the Board of Directors of said corporation convened and held in accordance with the law and the bylaws of said corporation on the 5<sup>th</sup> day of December 2018, and that such resolution is now in full force and effect.

**IN WITNESS WHEREOF**, I have signed my name this 20th day of March, 2019.

  
\_\_\_\_\_  
Mark E. Filmanowicz, Secretary