

COST SHARING MEMO OF UNDERSTANDING  
BETWEEN  
THE CITY OF MILWAUKEE  
AND THE VILLAGE OF WHITEFISH BAY

DATE: March 14, 2024

ROADWAY(s): Wilson Dr. Road Resurface

LIMITS: Southern limits of Whitefish Bay on Wilson Drive to Hampton Road

This COST SHARING MEMO OF UNDERSTANDING is made and entered into by the City of Milwaukee and the Village of Whitefish Bay.

The contents of this COST SHARING MEMO OF UNDERSTANDING will address cost sharing for all phases of the subject project including but not limited to preliminary and construction, engineering, and resurfacing the roadways as necessary. The City of Milwaukee and the Village of Whitefish Bay will budget funds for these improvements and projects.

The Village of Whitefish Bay, through its undersigned duly authorized officers or officials, hereby requests the City of Milwaukee to participate in the improvements hereinafter described.

**NEEDS AND ESTIMATE SUMMARY:**

**Proposed Improvement – Nature of work and Estimated Cost Summary**

The projects are identified and described as project 2024 Whitefish Bay Roadway Rehabilitation Project plan prepared by Clark Dietz, Inc, engineering firm at the request of the Village of Whitefish Bay. Those projects are described in Appendix A of the Clark Dietz Proposal and such descriptions are attached hereto for reference. The cost in estimated form, and cost sharing apportionment as between the parties is as set forth on Appendix B of the afore-referenced proposal, also attached hereto for reference. Additional terms and conditions are attached hereto and incorporated herein.

**Estimated Cost Summary\***

Estimated Improvement work:           \$13,821.25 (partial depth joint/crack repair and epoxy markings)

1) The City of Milwaukee will pay its share of the construction costs for the subject project within 60 days of being billed by the Village of Whitefish Bay. The Village of Whitefish Bay will bill the City of Milwaukee as the project progresses and supply Milwaukee with any background information to support the billing.

2) If the City objects to any portion of the bills submitted by the Village of Whitefish Bay, the City of Milwaukee shall notify the Village of Whitefish Bay in writing within twenty days of the invoice's receipt. The City of Milwaukee will pay any undisputed portions of the bill.

3) Each Community may include Non-participating items in the project that they deem necessary and these Non-participating items, defined as that work which is to be paid by the community undertaking such work and not cost-shared, will be paid for, in full, by the respective municipality.

4) The Village of Whitefish Bay agrees to consult and seek concurrence with the City of Milwaukee regarding any field change orders that would result in additional construction costs in excess of 10% after the project has been awarded.

5) Construction engineering costs will be prorated between each municipality using final construction costs in each municipality as detailed in the Cost Summary.

6) The costs of any additional or unforeseen items not covered in the above shall be agreed upon by the City of Milwaukee and the Village of Whitefish Bay and will be paid by the municipality in which the additional or unforeseen item occurs.

This Memo of Understanding is subject to the terms and conditions that follow and is executed by the undersigned under proper authority to execute such a Memo of Understanding for the City of Milwaukee and upon acceptance by the Village of Whitefish Bay shall constitute an Memo of Understanding between the two Municipalities.

**Signed for and on behalf of City of Milwaukee:**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Commissioner of Public Works  
Title

\_\_\_\_\_  
Date

**Approved by the Village of Whitefish Bay**

By \_\_\_\_\_ Date: \_\_\_\_\_  
Name/Position

TERMS AND CONDITIONS

1. The initiation and accomplishment of the improvement will be subject to all applicable Federal, State, and local regulations.

2. The City of Milwaukee will pay to the Village of Whitefish Bay as constructed quantities as outlined and listed in the Estimated Cost Summary and Cost Sharing Appendix A and Appendix B as set forth in the Clark Dietz Proposal.
3. Each Municipality shall ensure that all necessary funding of each project phase (roadway construction, and construction engineering) is in place for their portion of the project costs. The City of Milwaukee financing will be limited to participation in the costs of the following items as specified in the Estimate Cost Summary:
  - a. All construction costs including change orders (Per Estimated Cost Summary).
4. Work necessary to complete the improvement to be financed entirely by the Municipality (or responsible party) where the work lies includes, but may not be limited to, the following items:
  - a. Repair of damages to roads and streets caused by reason of their use in hauling materials incidental to the improvement.
  - b. New installations of or alterations of sanitary sewers or connections, water, gas, electric, telephone, telegraph, fiber optic, fire or police alarm facilities, pipelines, and similar utilities.
5. If the City of Milwaukee shall withdraw from the projects, it shall reimburse the Village of Whitefish Bay its proportionate share of all costs incurred by the Village of Whitefish Bay as of the date of withdrawal.
6. The work will be administered by the Village of Whitefish Bay or its designee(s). The Village of Whitefish Bay shall notify the City of Milwaukee of any design or construction changes that may occur during the process in excess of 10% of the budgeted amount and get written authorization prior to their inclusion and cost participation by the City of Milwaukee.
7. The respective municipalities will at their own expense:
  - a. Maintain all portions that lie within its boundaries.
  - b. Assume general responsibility of all public information to its residents.

(End of Document)

# Appendix B

Partial depth joint/crack repairs on concrete, remove and replace full panel concrete (8-inch thickness).

2024 Whitefish Bay Roadway Rehabilitation Project Estimate - Option 2						
No.	Description	Unit	Quantity	Unit Price	Total Price	
204.0100	Removal Concrete (8" Concrete & Base)	SY	710	\$ 25.00	\$ 17,750.00	
204.0120B	Removing Surface Milling (2-inch)	SY	10120	\$ 4.00	\$ 40,480.00	
204.0120C	Removing Surface Milling (4-inch)	SY	470	\$ 6.00	\$ 2,820.00	
415.1080	Concrete Pavement HES 8-inch (Include Base)	SY	710	\$ 90.00	\$ 63,900.00	
460.6224	HMA Pavement 4LT 58-28 S	TON	1400	\$ 80.00	\$ 112,000.00	
643.5000	Traffic Control & Protection	LS	1	\$ 15,000.00	\$ 17,250.00	
646.1020.1	Pavement Marking - Epoxy 4 Inch - White	LF	7675	\$ 1.25	\$ 9,593.75	
646.1020.2	Pavement Marking - Epoxy 4 Inch - Yellow	LF	5566	\$ 1.25	\$ 6,957.50	
646.7420	Lane Turn Marking - Epoxy 6 Inch - White	LF	142	\$ 8.50	\$ 1,207.00	
646.6120	Marking Stop Line Epoxy 18-inch - White	LF	60	\$ 13.75	\$ 825.00	
646.7005	Marking Diagonal Epoxy 6-inch - Yellow	LF	101	\$ 8.50	\$ 858.50	
646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-inch - White	LF	113	\$ 16.25	\$ 1,836.25	
646.5020.1	Pavement Marking Symbol Epoxy - Left Turn Arrow	EA	14	\$ 260.00	\$ 3,640.00	
646.5020.2	Pavement Marking Symbol Epoxy - Right Turn Arrow	EA	2	\$ 280.00	\$ 560.00	
SPV.0990.01	Partial-Depth Joint/Crack Repair	LF	14	\$ 400.00	\$ 5,600.00	
SPV.0990.02	Concrete Curb and Gutter R&R	LF	600	\$ 40.00	\$ 24,000.00	
SPV.0195.01	Unclassified Excavation and Backfill	CY	110	\$ 60.00	\$ 6,600.00	
			48	\$ 100.00	\$ 4,750.00	
			<b>TOTAL</b>		<b>\$ 320,933.00</b>	
			<b>GLEN &amp; DANBURY SUBTRACTED</b>		<b>\$ 295,013.00</b>	
			<b>MKE WILSON SUBTRACTED</b>		<b>\$ 281,191.75</b>	

No.	Description	N WILSON DR (W/F)		N WILSON DR (M/L)		E GLEN AVE/ N DANBURY RD		E BEAUMONT AVE		N CONSAUL PL		N OAKLAND AVE	
		Unit	Quantity	Total Price	Quantity	Total Price	Quantity	Total Price	Quantity	Total Price	Quantity	Total Price	Quantity
204.0100	Removal Concrete (8" Concrete & Base)	SY	440	\$ 11,000.00	\$ -	1560	\$ 6,240.00	860	\$ 3,440.00	270	\$ 6,750.00		
204.0120B	Removing Surface Milling (2-inch)	SY	7700	\$ 30,800.00	\$ -			470	\$ 2,820.00				
204.0120C	Removing Surface Milling (4-inch)	SY	440	\$ 39,600.00	\$ -								
415.1080	Concrete Pavement HES 8-inch (Include Base)	TON	900	\$ 72,000.00	\$ -	200	\$ 16,000.00	300	\$ 24,000.00	270	\$ 24,300.00		
460.6224	HMA Pavement 4LT 58-28 S	TON	1400	\$ 112,000.00	\$ -	0.2	\$ 3,000.00	0.2	\$ 3,000.00	0.1	\$ 1,500.00		
643.5000	Traffic Control & Protection	LS	0.60	\$ 9,000.00	\$ 0.05	750.00	\$ 750.00						
646.1020.1	Pavement Marking - Epoxy 4 Inch - White	LF	3906.00	\$ 3,891.25	\$ 313.00	394.25	\$ 394.25					4259.0	\$ 5,232.75
646.1020.2	Pavement Marking - Epoxy 4 Inch - Yellow	LF	142.00	\$ 1,207.00								2786.0	\$ 2,852.00
646.7420	Lane Turn Marking - Epoxy 6 Inch - White	LF	29.00	\$ 388.75			192.50	\$ 237.75					
646.7520	Marking Stop Line Epoxy 18-inch - White	LF	101.00	\$ 858.50									
646.5020.1	Marking Crosswalk Epoxy Ladder Pattern 24-inch - White	LF	8.00	\$ 650.00	\$ 1.00	280.00	\$ 280.00	48.0	\$ 698.75			5.0	\$ 1,400.00
646.5020.2	Pavement Marking Symbol Epoxy - Left Turn Arrow	EA	2.00	\$ 560.00									
646.5020.2	Pavement Marking Symbol Epoxy - Right Turn Arrow	EA	8.00	\$ 3,200.00	\$ 300	460.00	\$ 460.00						
SPV.0990.01	Partial-Depth Joint/Crack Repair	LF	110	\$ 6,600.00	\$ -								
SPV.0990.02	Concrete Curb and Gutter R&R	LF	24	\$ 2,400.00	\$ -								
SPV.0195.01	Unclassified Excavation and Backfill	CY	24	\$ 2,400.00	\$ -								
			<b>TOTAL</b>		<b>\$ 200,538.00</b>	<b>\$ 13,821.25</b>	<b>\$ 25,920.00</b>	<b>\$ 2,350.00</b>	<b>\$ 36,542.50</b>	<b>\$ 32,550.00</b>	<b>\$ 11,575.75</b>	<b>\$ 11,575.75</b>	



2024 ROADWAY REHABILITATION PROJECT

GENERAL NOTES

PROJECT NO.: W00082000  
DRAWING NO.: 2

**QUANTITIES**

**DESIGER'S ROUTINE**  
800 248-8111 TOLL FREE  
100 W. FARMOUNT AVENUE  
MILWAUKEE, WI 53211  
(414) 281-1811 MILW. AREA

**VILLAGE OF WHITEFISH BAY**  
JOHN D. BOECKE, P.E.  
150 W. FARMOUNT AVENUE  
MILWAUKEE, WI 53211  
(414) 282-2800 EXT 114 OFFICE

**CLARK DIETZ INC.**  
BRANDON FLUNKER, P.E.  
STREET, SUITE 204  
MILWAUKEE, WI 53211  
(414) 81-284 OFFICE  
BRANDON.FLUNKER@CLARKDIETZ.COM

**WE ENERGIES - ELECTRIC**  
LEONARD WILSON  
WEST ALIS, WI 53211  
LEONARD.WILSON@WEENERGIES.COM  
THOMAS.MINKS@WEENERGIES.COM

**WE ENERGIES - GAS**  
TOM WIRSKAL - PLANNING  
WEST ALIS, WI 53211  
TOM.WIRSKAL@WEENERGIES.COM

**AT&T**  
JAY BALMER  
MILWAUKEE, WI 53211  
JAY.BALMER@ATT.NET

**TIME WARNER CABLE**  
STEVE STROM  
KING DRIVE  
MILWAUKEE, WI 53211  
STEVE.STROM@TWCABLE.COM

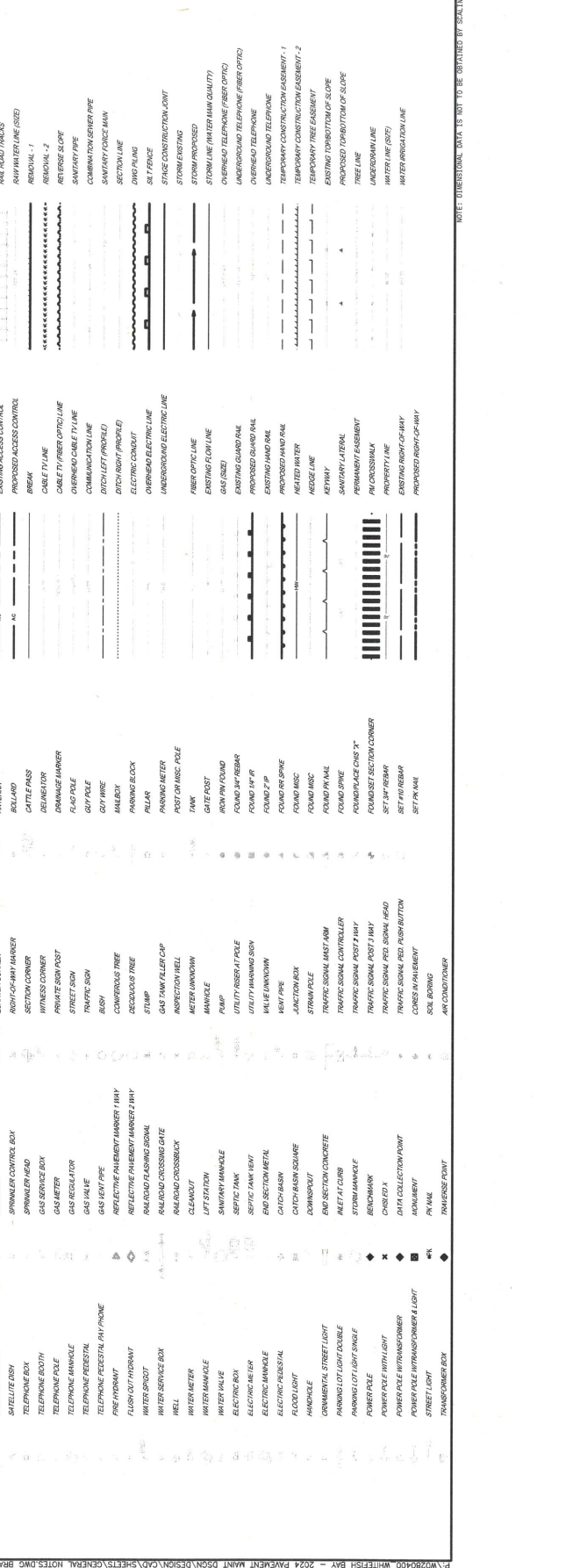
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Kowalla, Below,  
Call John Ward,

**GENERAL NOTES**

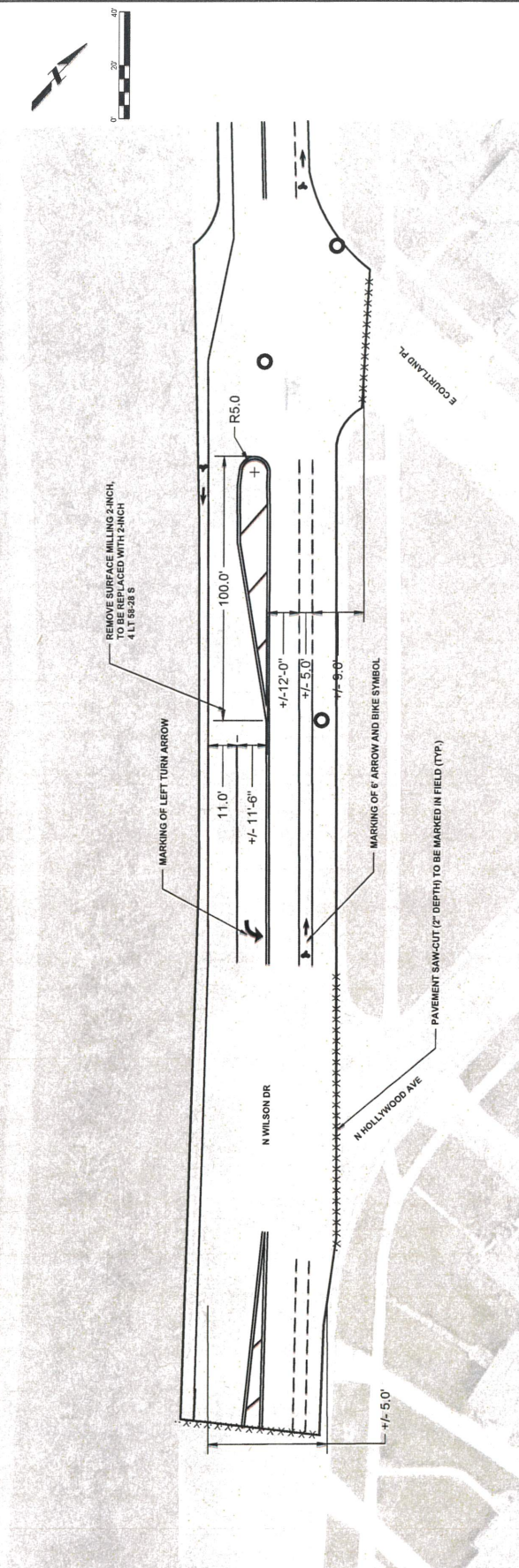
- TRAFFIC CONTROL SHALL INCLUDE ALL NECESSARY ADVANCED SIGNS, DRUMS, BARRICADES FOR SIDEWALK AND ROADWAY TO ALERT THE PUBLIC.
- NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SHOWN ON THE PLANS AND MARKED IN THE FIELD OR HAS THE APPROVAL OF THE ENGINEER.
- THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY THE UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES NECESSARY TO COMPLY WITH WISCONSIN DNR REGULATIONS AND LOCAL ORDINANCES.
- PROTECT ALL MANHOLE LIDS, CURB BOXES AND GATE VALVE BOXES FROM DAMAGE. (ANY DAMAGED UTILITY OWNED BY VILLAGE SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE VILLAGE)
- CONTRACTOR SHALL NOT STORE MATERIAL IN THE ROADWAY RIGHT OF WAY FOR LONG PERIODS OF TIME. MATERIAL SHALL ONLY BE STORED ON THE ROAD IT IS INTENDED TO BE USED FOR. CONTRACTOR WILL BE ASKED TO REMOVE ANY MATERIAL FROM ANY AREA WHICH IS USED FOR LONG TERM STORAGE.

**SYMBOL LEGEND**

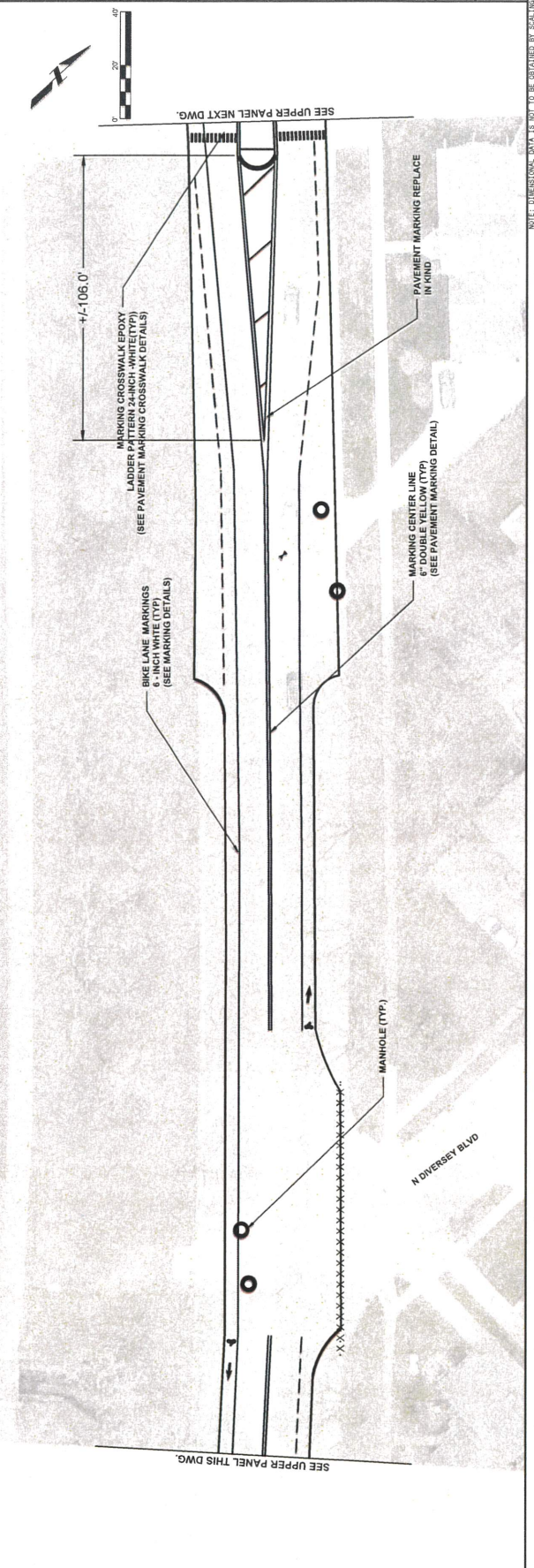
CABLE TV FEDESTAL	HAND LIGHT	QUARTER CORNER	ANTENNA	EXISTING ACCESS CONTROL	ANK ROAD TRACKS
SATELLITE DISH	SPRINKLER CONTROL BOX	ROOF-TO-RAY MARKER	BELLAND	PROPOSED ACCESS CONTROL	ANK WATER LINE (SIZE)
TELEPHONE BOX	SPRINKLER HEAD	SECTION CORNER	CATTLE PASS	BRISK	RESIGNAL - 1
TELEPHONE BOOTH	GAS SERVICE BOX	WITNESS CORNER	DEFLECTOR	CABLE TV/FIBER OPTIC LINE	RESIGNAL - 2
TELEPHONE POLE	GAS METER	PRIVATE SIGN POST	DRAINAGE MARKER	OVERHEAD CABLE TV/LINE	SMALLER SLOPE
TELEPHONE MANHOLE	GAS REGULATOR	STREET SIGN	FLAG POLE	COMMUNICATION LINE	CONCRETE/PAVEMENT
TELEPHONE FEDESTAL	GAS VALVE	TRAFFIC SIGN	GUY WIRE	OVERHEAD TELEPHONE (FIBER OPTIC)	SAWMARK FORCE MAIN
TELEPHONE FEDESTAL PH PHONE	GAS NEW PIPE	CONCRETE TREE	MALIBOY	UNDERGROUND TELEPHONE (FIBER OPTIC)	SECTION LINE
FIRE HYDRANT	REFLECTIVE PAVERS/BI-MATERIAL	DECIDUOUS TREE	PARKING BLOCK	TEMPORARY CONSTRUCTION EASEMENT - 1	SECTION LINE
WATER SPOT	RAILROAD FLASHING SIGNAL	STUMP	PARKING METER	TEMPORARY CONSTRUCTION EASEMENT - 2	SECTION LINE
WATER SERVICE BOX	RAILROAD CROSSING GATE	GAS TANK FILLER CAP	PARKING SIGN	TEMPORARY TREE EASEMENT	SECTION LINE
WELL	RAILROAD CROSSING	INSPECTION WELL	TANK	EXISTING TREE EASEMENT	SECTION LINE
WATER METER	CLEANDUT	METER WINDOW	GATE POST	PROPOSED LATERAL	SECTION LINE
WATER MANHOLE	LEFT STATION	MANHOLE	IRON PIV FOUND	PROPOSED PERMITS/PERMIT	SECTION LINE
WATER VALVE	SEPTIC TANK	PUMP	FOUND SIGN REBAR	PROPOSED PERMITS/PERMIT	SECTION LINE
ELECTRIC BOX	SEPTIC TANK VEHT	UTILITY INSET AT POLE	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
ELECTRIC METER	END SECTION METAL	UTILITY HANGING SIGN	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
ELECTRIC MANHOLE	CATCH BASIN	M/L/E JUNCTION	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
ELECTRIC FEDESTAL	CATCH BASIN SQUARE	NEW PIPE	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
FLOOD LIGHT	DOWNSPOUT	STRAIN PALE	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
HANDHOLE	END SECTION CONCRETE	TRAFFIC SIGNAL MAST ARM	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
ORNAMENTAL STREET LIGHT	INLET AT CURB	TRAFFIC SIGNAL POST 1 ARM	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
PARKING LOT LIGHT DOUBLE	STORM MANHOLE	TRAFFIC SIGNAL POST 2 ARM	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
PARKING LOT LIGHT SINGLE	ROCK MARK	TRAFFIC SIGNAL POST 3 ARM	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
POWER POLE	CHAS E/D	TRAFFIC SIGNAL POST SIGNAL HEAD	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
POWER POLE WITH LIGHT	DATA COLLECTION POINT	TRAFFIC SIGNAL POST DISTRIBUTION	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
POWER POLE WITH TRANSFORMER	ADJUNCTION	CONCRETE MANHOLE	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
POWER POLE WITH TRANSFORMER & LIGHT	PK MAN	SOIL BORING	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
STREET LIGHT	TRANSFORMER	AIR CONDITIONER	FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE
TRANSFORMER BOX			FOUND SIGN	PROPOSED PERMITS/PERMIT	SECTION LINE

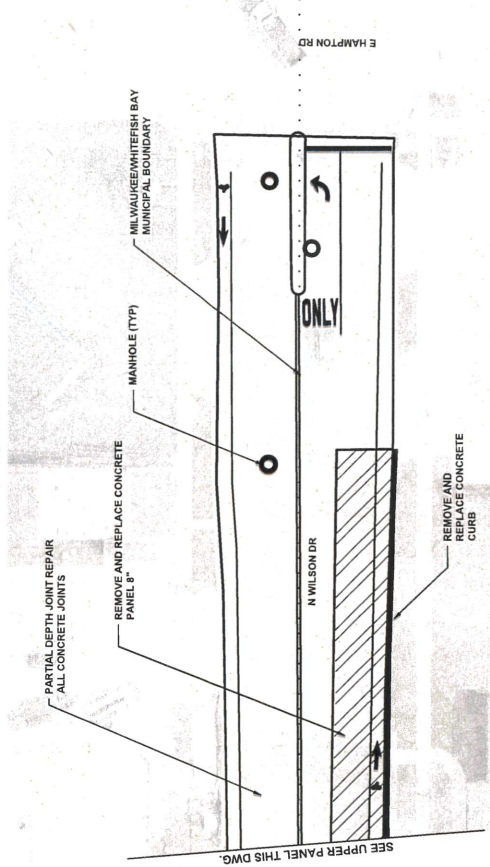
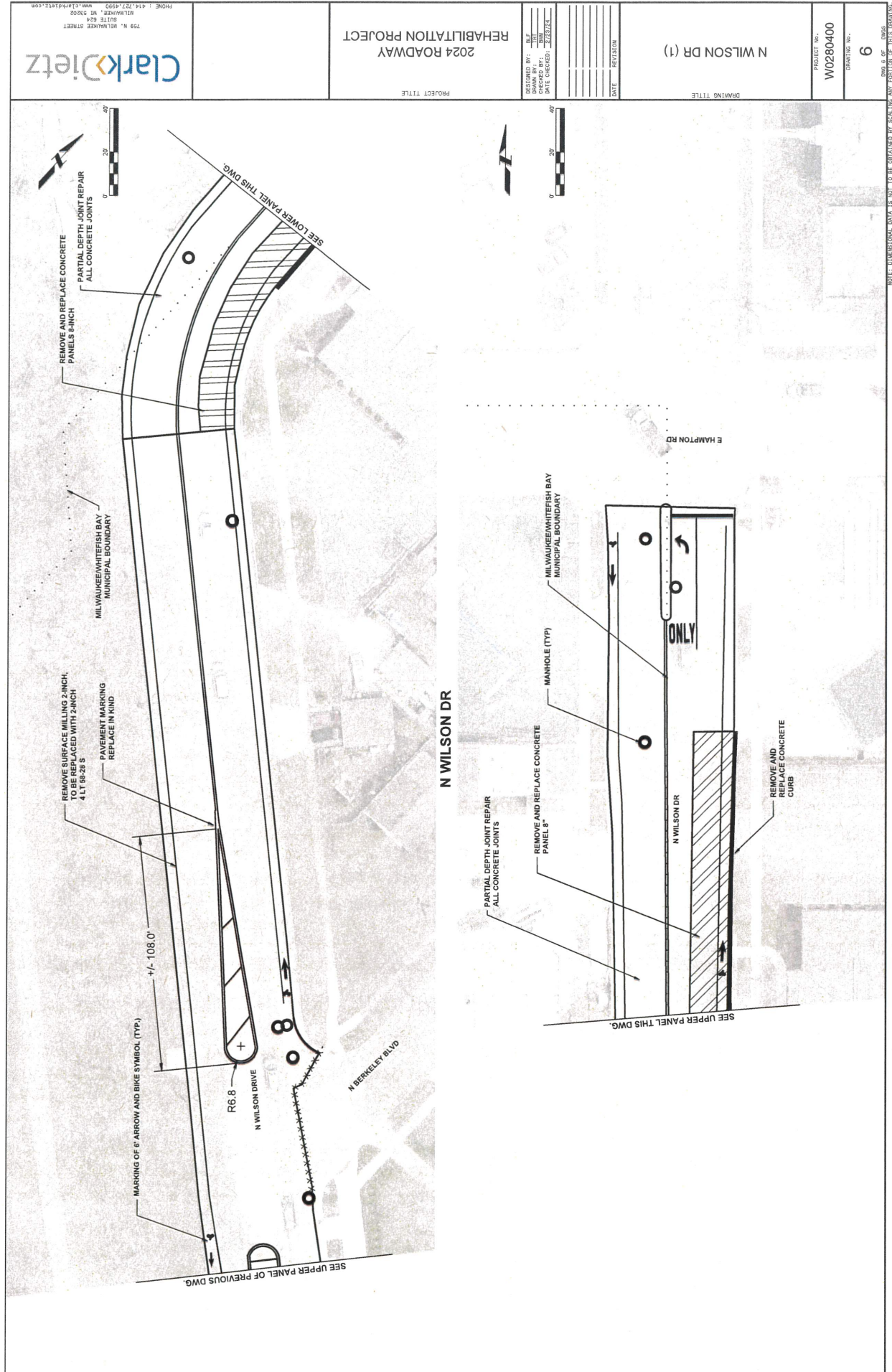


DESIGNED BY:	MLF
CHECKED BY:	MLF
DATE CHECKED:	2/23/24
DATE:	
REVISION:	



N WILSON DR





**Clark Dietz**  
 759 N. MILWAUKEE STREET  
 MILWAUKEE, WI 53002  
 PHONE: 414.277.4992 www.clarkdietz.com

PROJECT TITLE  
**2024 ROADWAY REHABILITATION PROJECT**

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DATE CHECKED: 2/23/24	

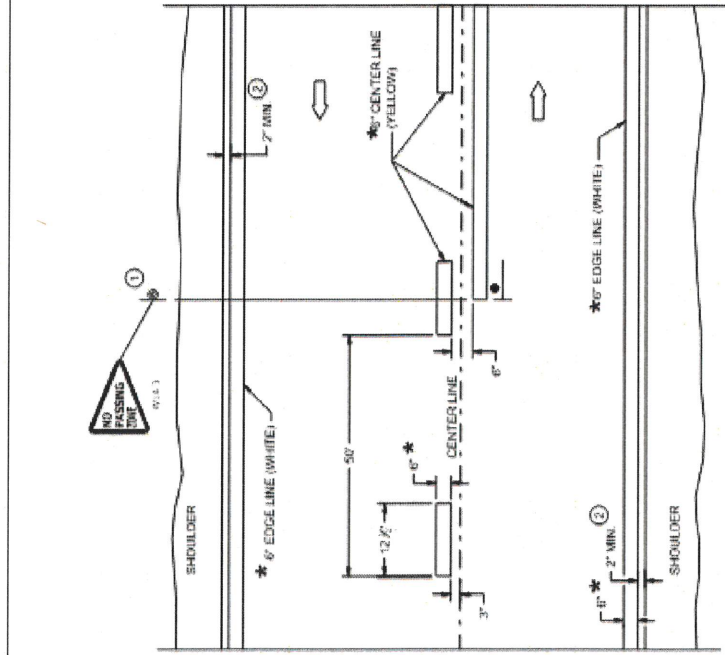
DRAWING TITLE  
**N WILSON DR (1)**

PROJECT No.:  
**W0280400**

DRAWING No.:  
**6**

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 DWG. 6 OF 6 DWGS

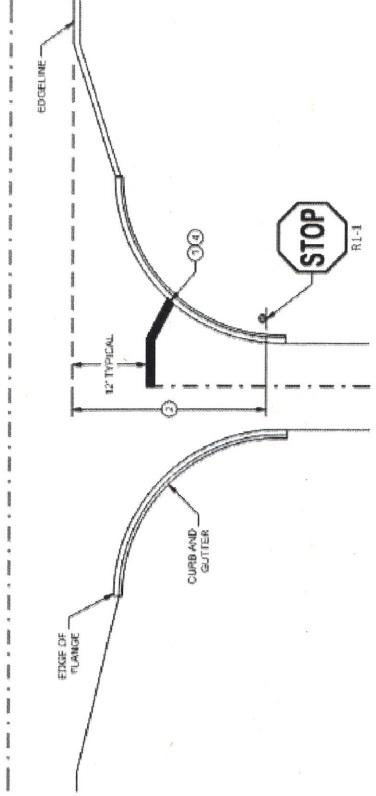




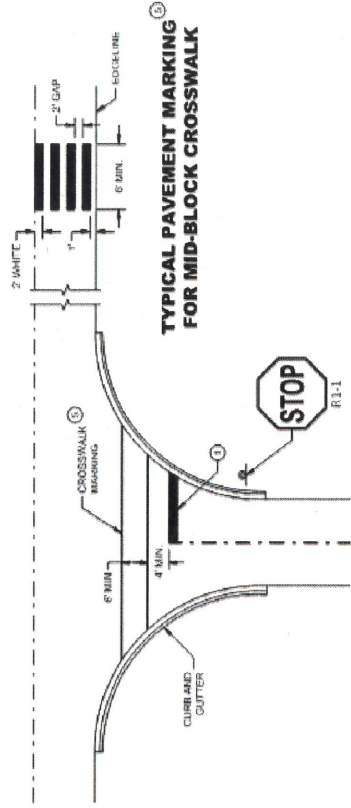
**TWO WAY TRAFFIC**

**GENERAL NOTES**

- STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGE LINE LOCATION.
- 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGE LINE.
- NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
- MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID-BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



**TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER**



**TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK**

**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING**

DESIGNED BY:	AK
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DATE:	REVISION:

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

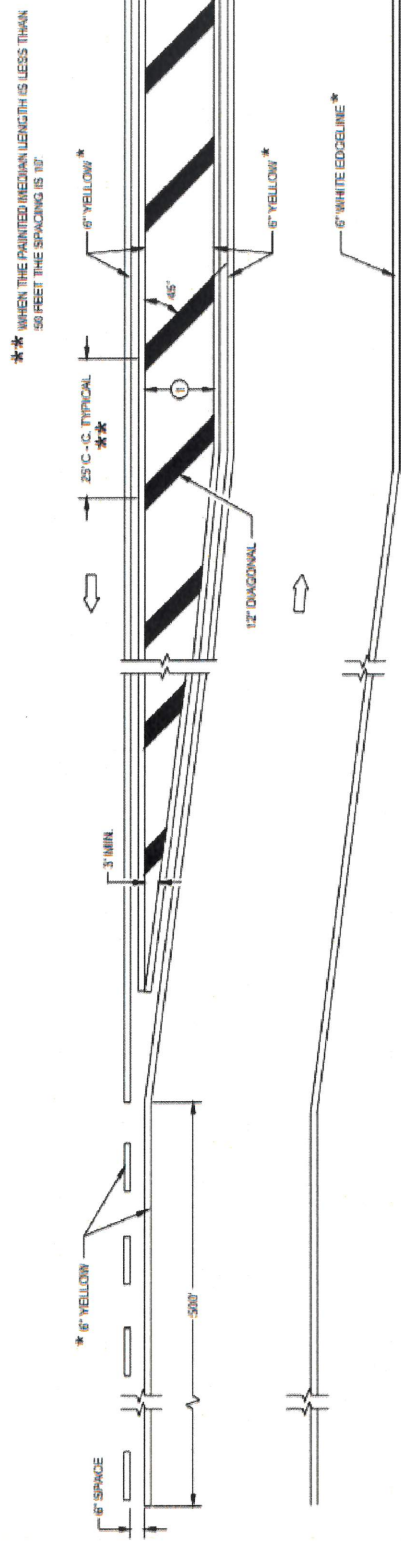
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**GENERAL NOTES**

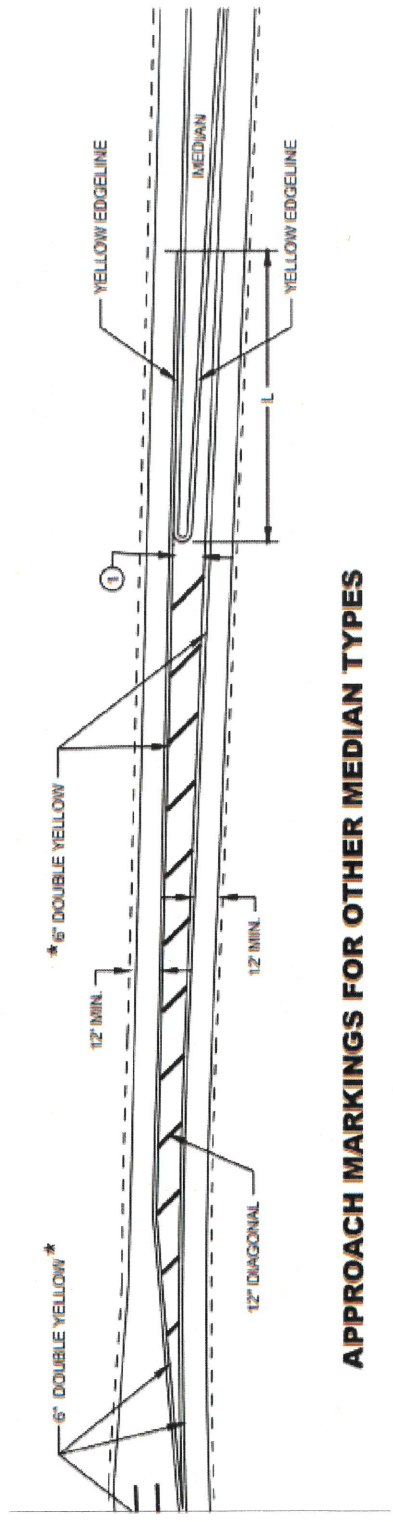
- ① DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 8 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.



<b>SPEED LIMIT</b>	<b>L</b>
<b>&lt;35 MPH</b>	<b>5'</b>
<b>35 &gt; MPH</b>	<b>50'</b>



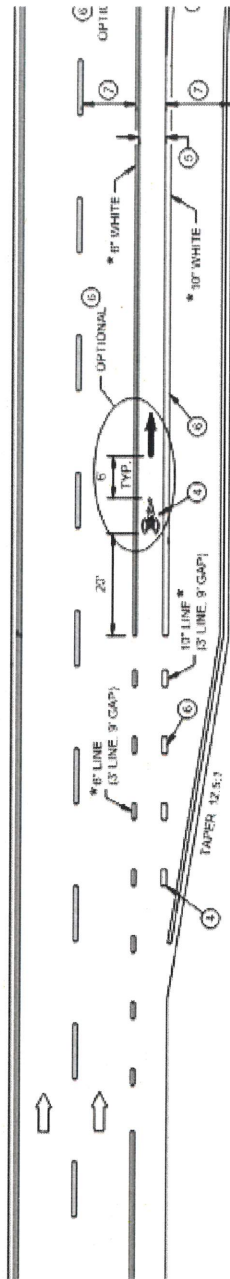
**MEDIAN ISLAND DETAIL**



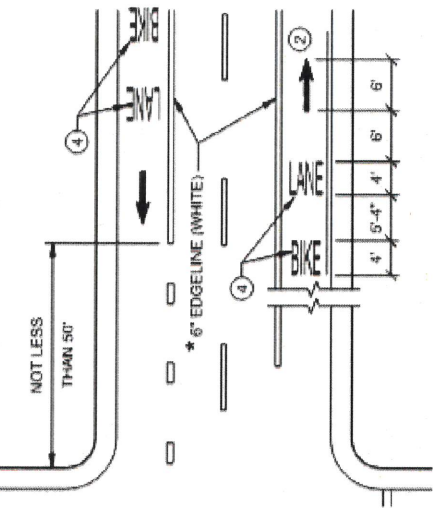
**APPROACH MARKINGS FOR OTHER MEDIAN TYPES**

NOTE: DIMENSIONAL DATA IS NOT TO BE OMITTED BY SCALING ANY PORTION OF THIS DRAWING.

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DRAWN BY:	DATE:
CHECKED BY:	DATE:
DATE:	REVISION:



**BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS  
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)**



**GENERAL NOTES**

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.
3. DOTTED LINES (3 LINE, 9" GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL