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6/18/2010

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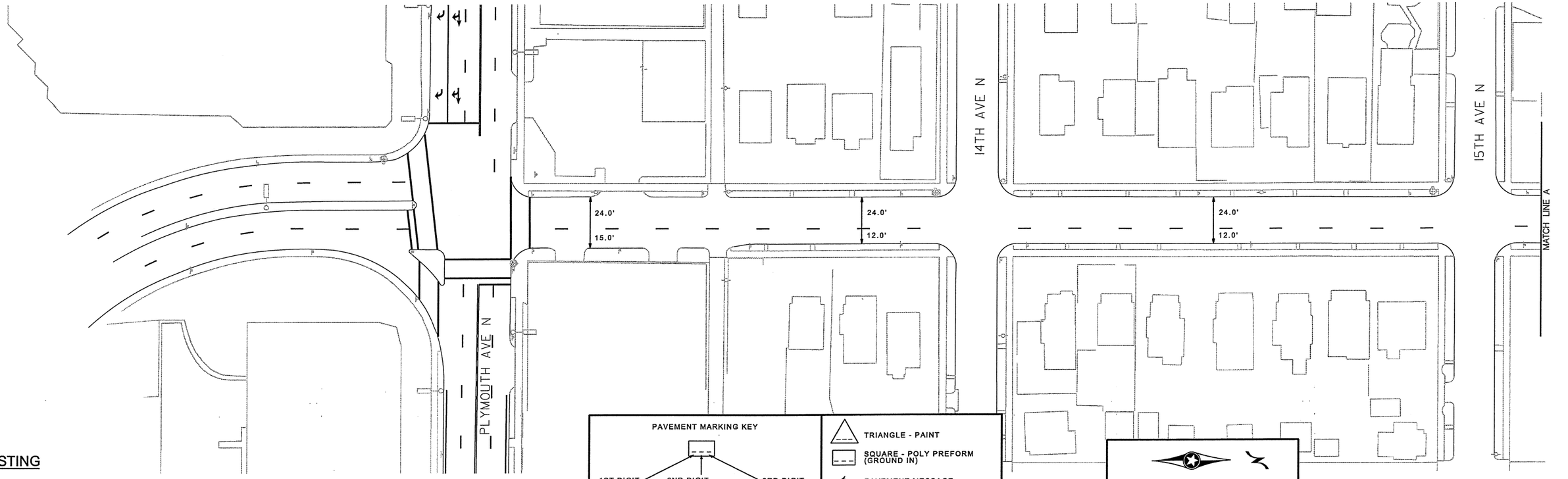


PAVEMENT MARKING KEY

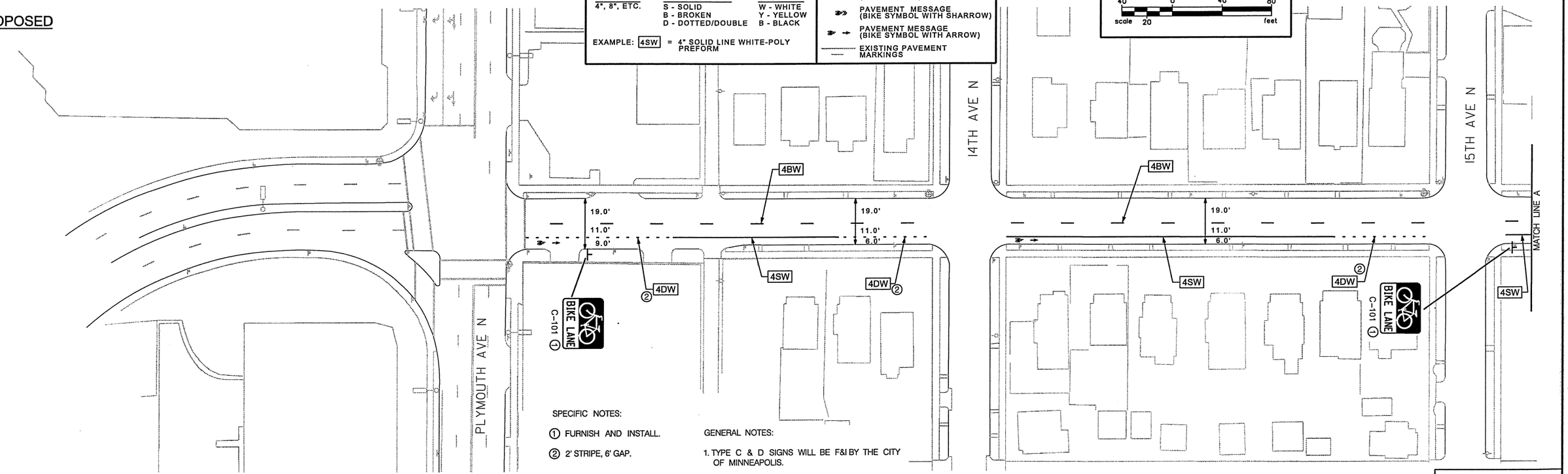
1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE (LANE ARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

scale 20: 40 0 40 80 feet

PROPOSED



SPECIFIC NOTES:

(1) FURNISH AND INSTALL.

(2) 2' STRIPE, 6' GAP.

GENERAL NOTES:

1. TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.
2. REMOVE CONFLICTING PAVEMENT MARKINGS.

S.P. 141-091-020

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MTT				
DESIGNER: DRB				
CHECKED BY: HNK				

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Certified By: _____ Lic. No. 42804
Licensed Professional Engineer
Printed Name: HEATHER N. KIENITZ Date: 6/18/2010

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

SEH
PHONE: (651)490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EMERSON AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

1 OF 21

120 / 259

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6/18/2010

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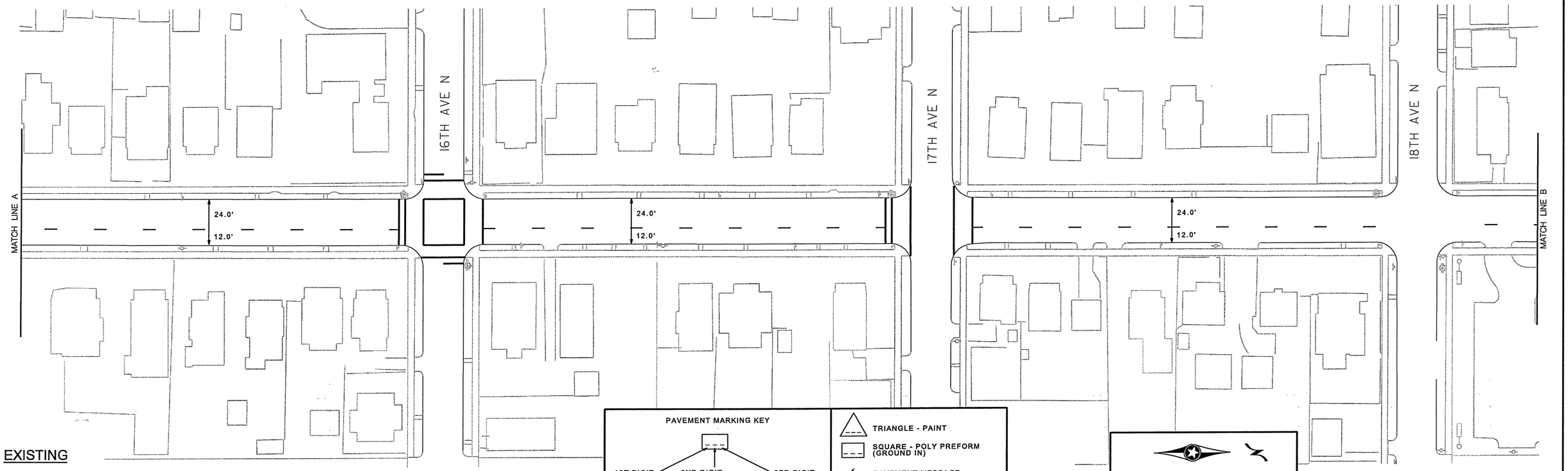

PAVEMENT MARKING KEY

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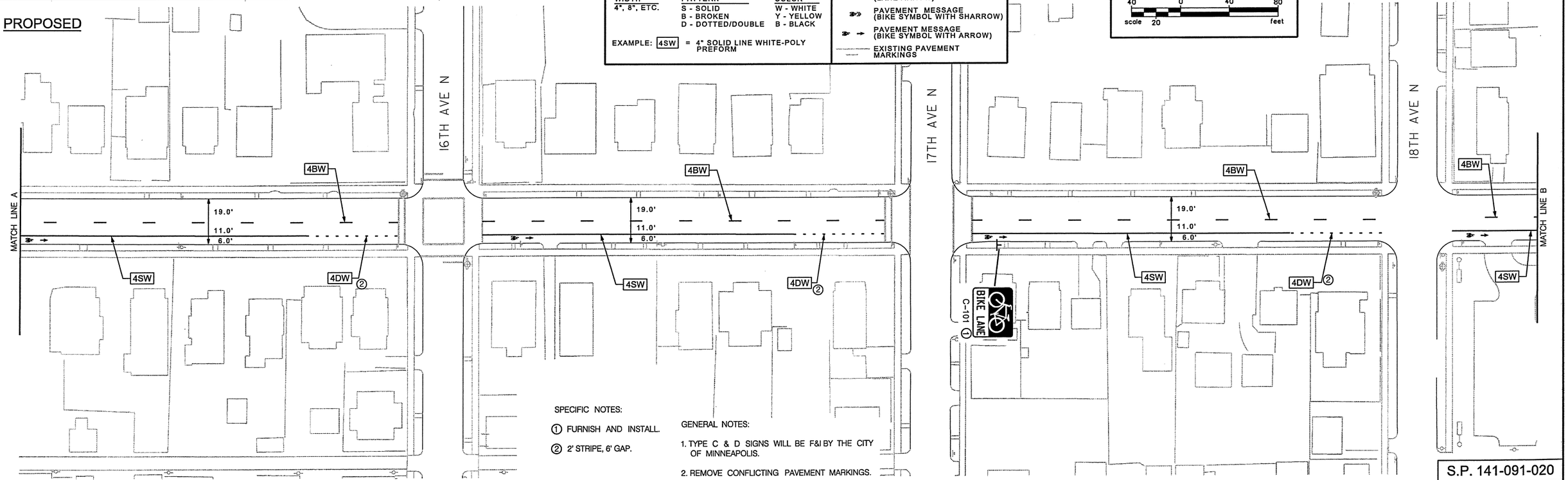
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

PROPOSED



SPECIFIC NOTES:

① FURNISH AND INSTALL.

② 2' STRIPE, 6' GAP.

GENERAL NOTES:

1. TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.
2. REMOVE CONFLICTING PAVEMENT MARKINGS.

S.P. 141-091-020

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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EMERSON AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

2 OF 21

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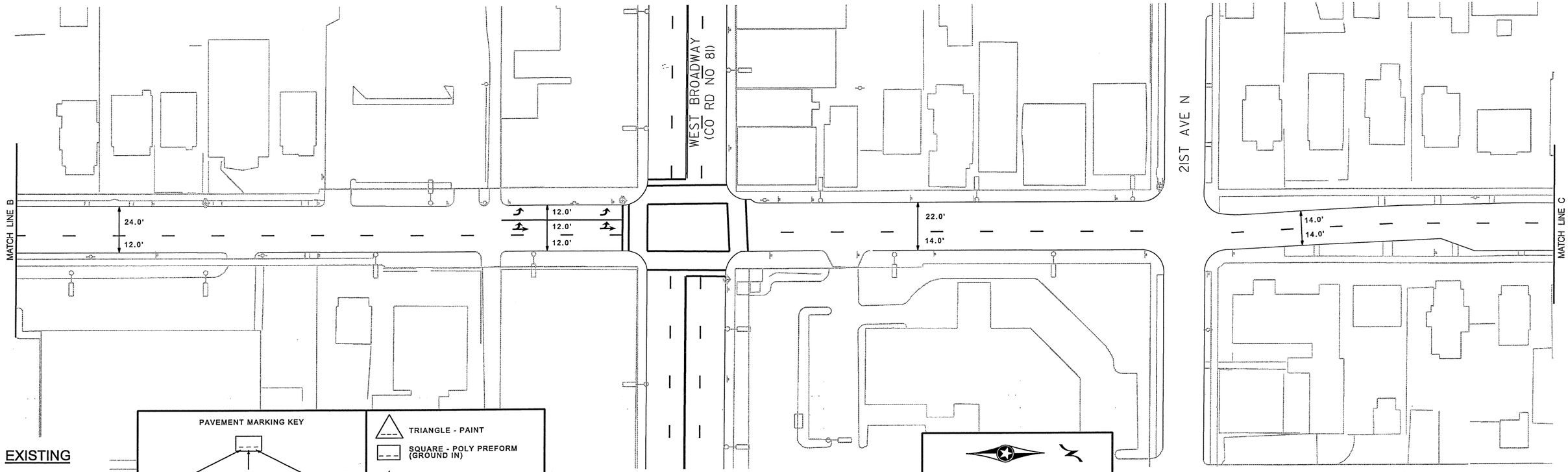

PAVEMENT MARKING KEY

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4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

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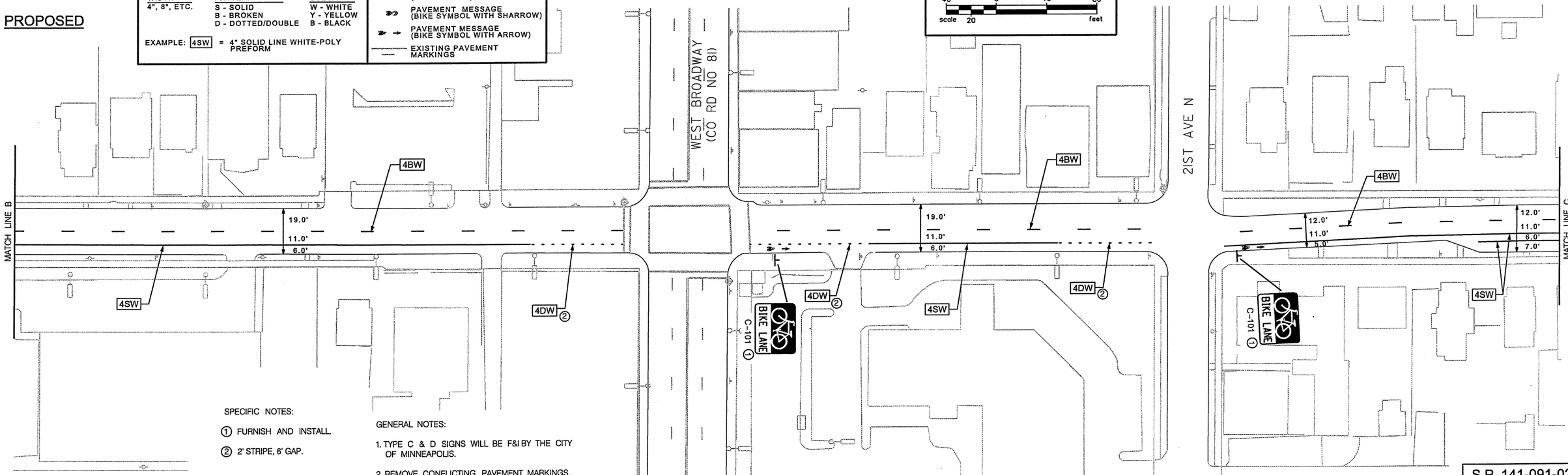
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

PROPOSED



SPECIFIC NOTES:

① FURNISH AND INSTALL.

② 2' STRIPE, 6' GAP.

GENERAL NOTES:

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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EMERSON AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438
3 OF 21
122 / 259

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plnsht 3

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6/18/2010

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plnsht 4

22ND AVE N

23RD AVE N

24TH AVE N

MATCH LINE C

MATCH LINE D

14.0'
22.0'

EXISTING

PROPOSED

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

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- PAVEMENT MESSAGE (LANE ARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

12.0'
11.0'
6.0'
7.0'

4BW
4SW
4DW ②
BIKE LANE C-101 ①

SPECIFIC NOTES:

① FURNISH AND INSTALL.

② 2' STRIPE, 6' GAP.

GENERAL NOTES:

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2. REMOVE CONFLICTING PAVEMENT MARKINGS.

S.P. 141-091-020

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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EMERSON AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

4 OF 21

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6/18/2010

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plnsht 5

EXISTING

PROPOSED

25TH AVE N

26TH AVE N

27TH AVE N

MATCH LINE D

MATCH LINE E

14.0'

22.0'

12.0'

11.0'

6.0'

7.0'

5.0'

4BW

4SW

4DW ②

D-140 ①

2nd St N

Theo Wirth Pkwy 1

C-101 ①

BIKE LANE

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

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- PAVEMENT MESSAGE (LANE ARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80

scale 20 feet

SPECIFIC NOTES:

① FURNISH AND INSTALL.

② 2' STRIPE, 6' GAP.

GENERAL NOTES:

1. TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.
2. REMOVE CONFLICTING PAVEMENT MARKINGS.

S.P. 141-091-020

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DESIGNER: DRB				
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Certified By: _____ Lic. No. 42804
Licensed Professional Engineer

Printed Name: HEATHER N. KIENITZ Date: 6/18/2010

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ST. PAUL, MN 55110

MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EMERSON AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

5 OF 21

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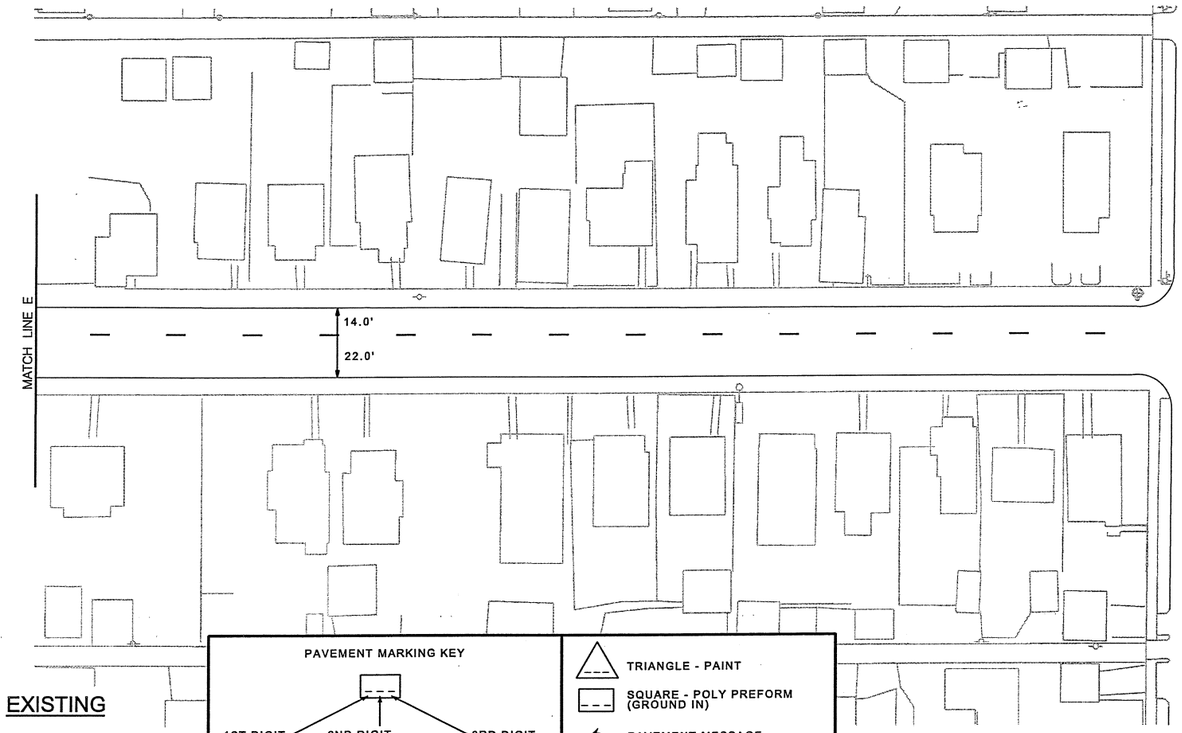
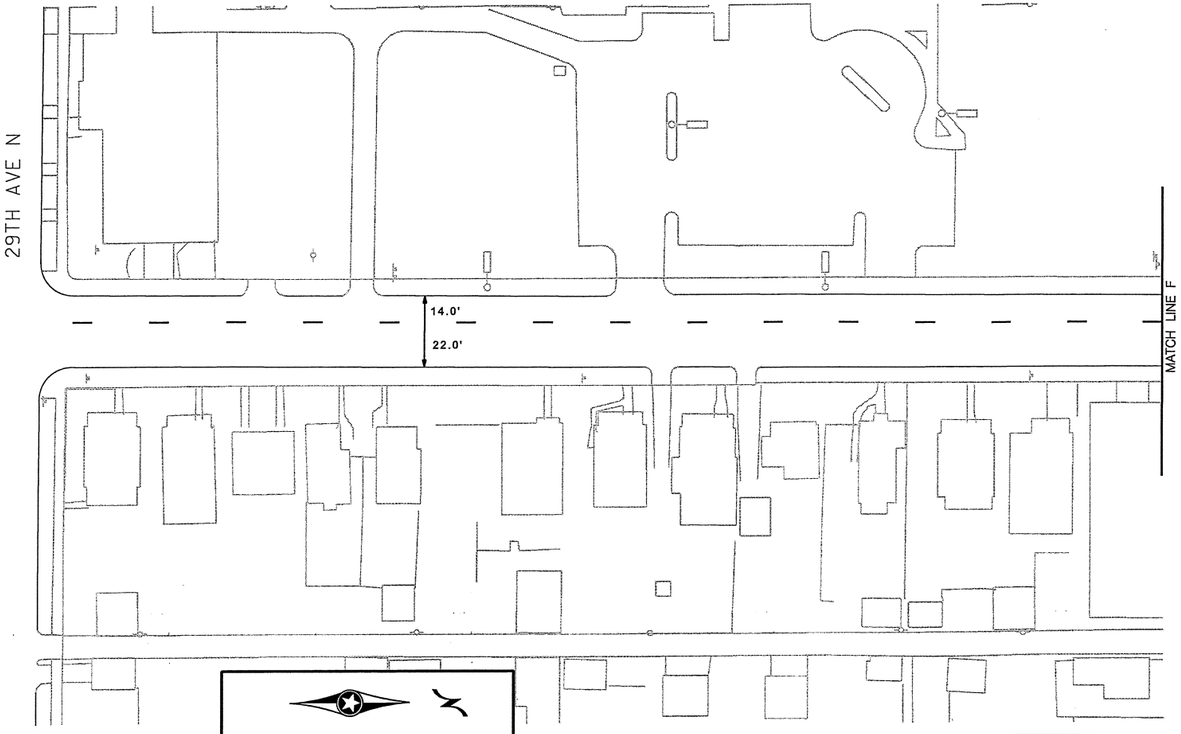
6/18/2010

EXISTING





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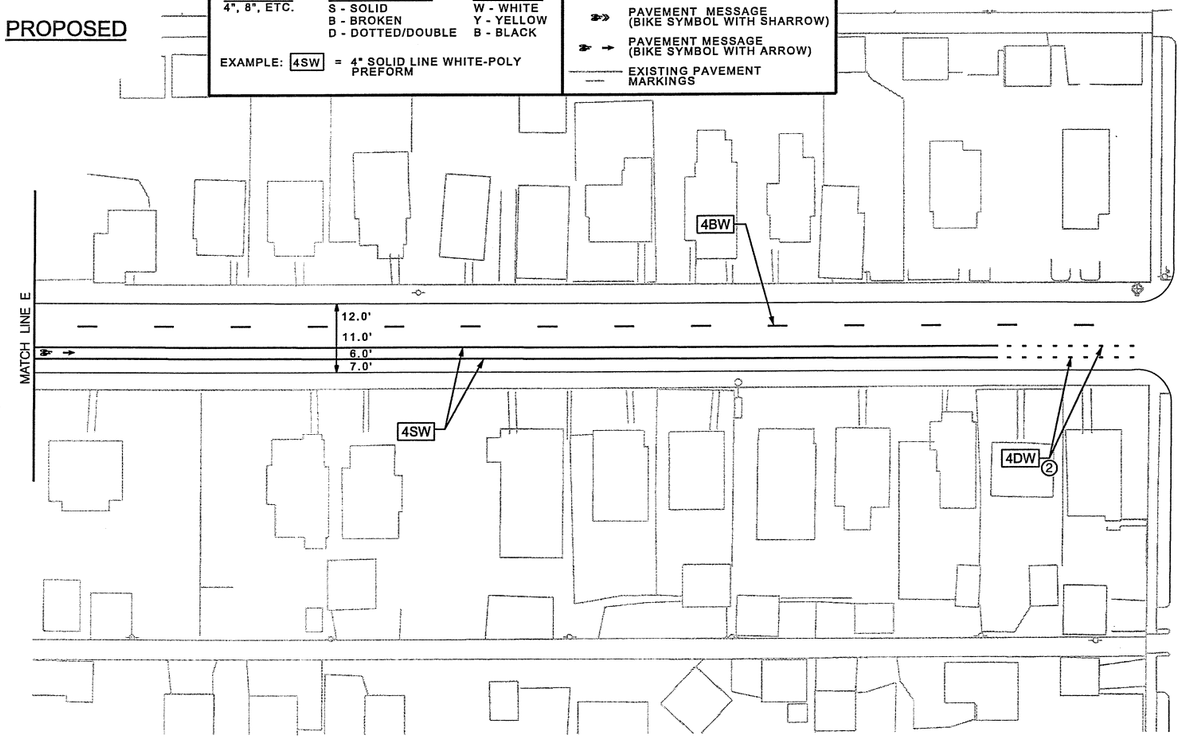

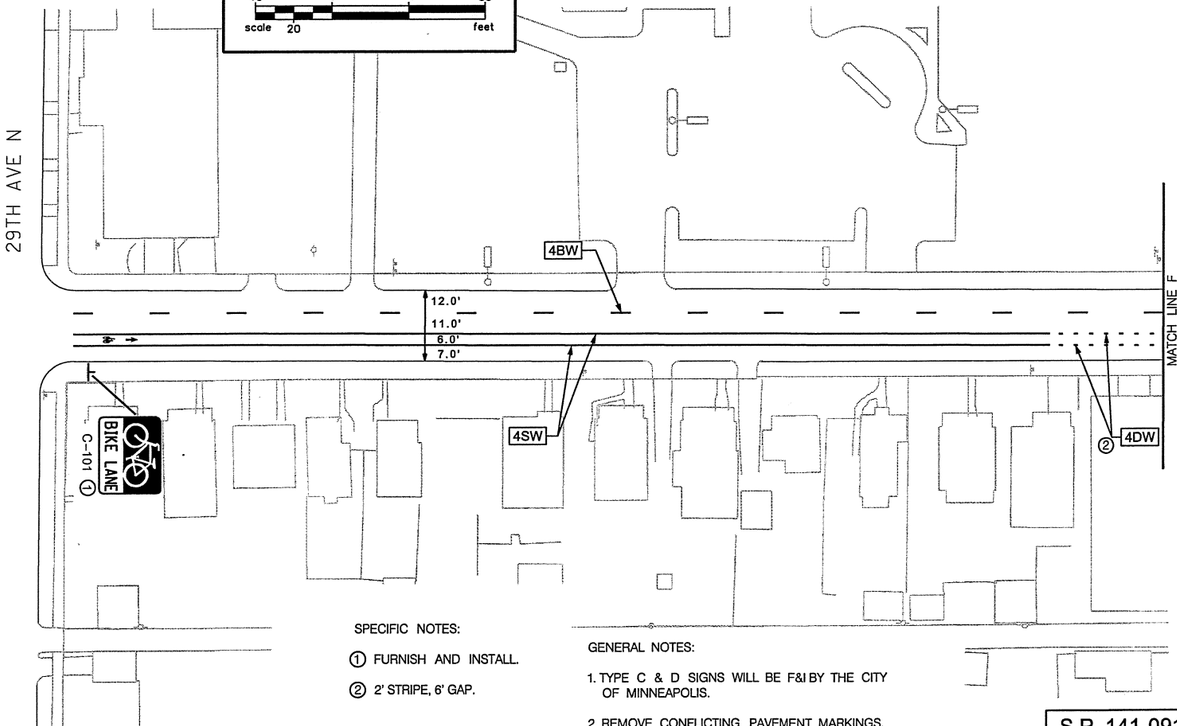

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE (LANE ARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

SPECIFIC NOTES:

1. FURNISH AND INSTALL.
2. 2' STRIPE, 6' GAP.

GENERAL NOTES:

1. TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.
2. REMOVE CONFLICTING PAVEMENT MARKINGS.

S.P. 141-091-020

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MTT				
DESIGNER: DRB				
CHECKED BY: HNK				

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Printed Name: HEATHER N. KIENITZ Date: 6/18/2010

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

SEH
PHONE: (651)490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EMERSON AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

6 OF 21

125 / 259

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plnsht 7

EXISTING

PROPOSED

30TH AVE N

MATCH LINE F

MATCH LINE G

14.0'

22.0'

LOWRY AVE N
(CO RD NO 153)

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

- TRIANGLE - PAINT
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- PAVEMENT MESSAGE (LANE ARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

12.0'
11.0'
5.0'
8.0'

4BW

4SW

4DW ②

SIGNAL SYSTEM C

BIKE LANE
C-101 ①

SPECIFIC NOTES:

① FURNISH AND INSTALL.

② 2' STRIPE, 6' GAP.

GENERAL NOTES:

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S.P. 141-091-020

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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EMERSON AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

7 OF 21

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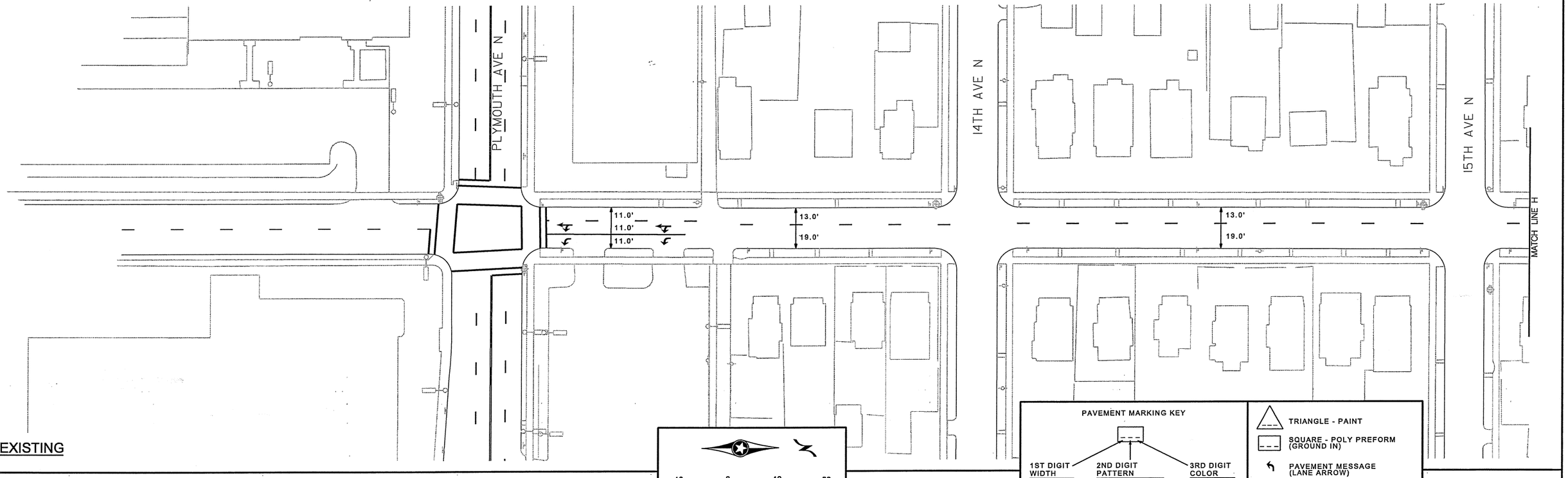
6/18/2010

EXISTING



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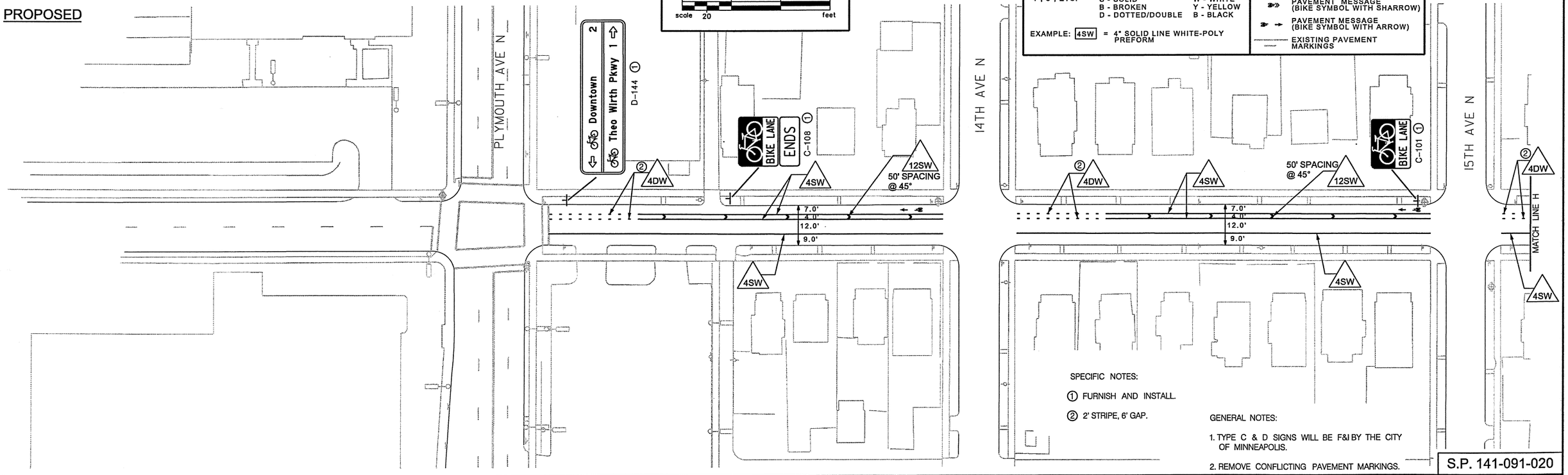

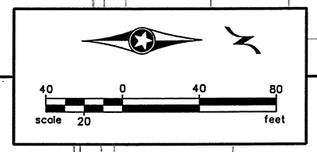

PAVEMENT MARKING KEY

1ST DIGIT WIDTH: 4", 8", ETC.

2ND DIGIT PATTERN: S - SOLID; B - BROKEN; D - DOTTED/DOUBLE

3RD DIGIT COLOR: W - WHITE; Y - YELLOW; B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

- TRIANGLE - PAINT
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- PAVEMENT MESSAGE (LANE ARROW)
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- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

SPECIFIC NOTES:

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S.P. 141-091-020

S:\KO\MNpls\107438\5-dsgn\51-cadd\Civil\plnshts\Phase 2\Emerson & Fremont Av N_SS.dgn
plnsht 9

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MTT				
DESIGNER: DRB				
CHECKED BY: HNK				

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MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

SEH
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3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

FREMONT AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

9 OF 21

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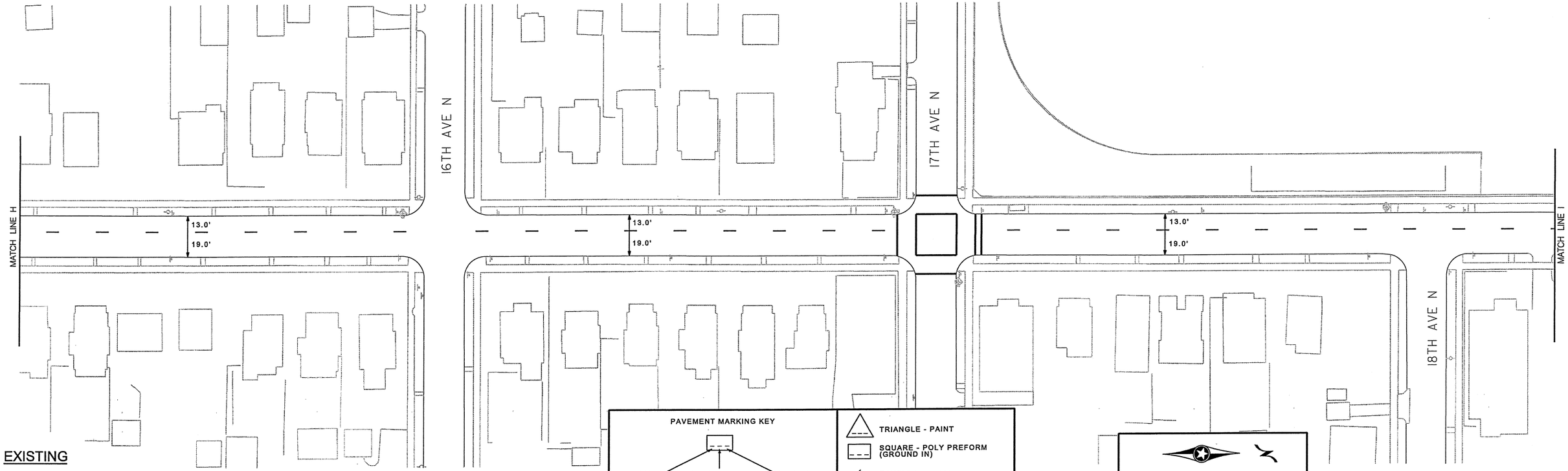
6/18/2010

EXISTING



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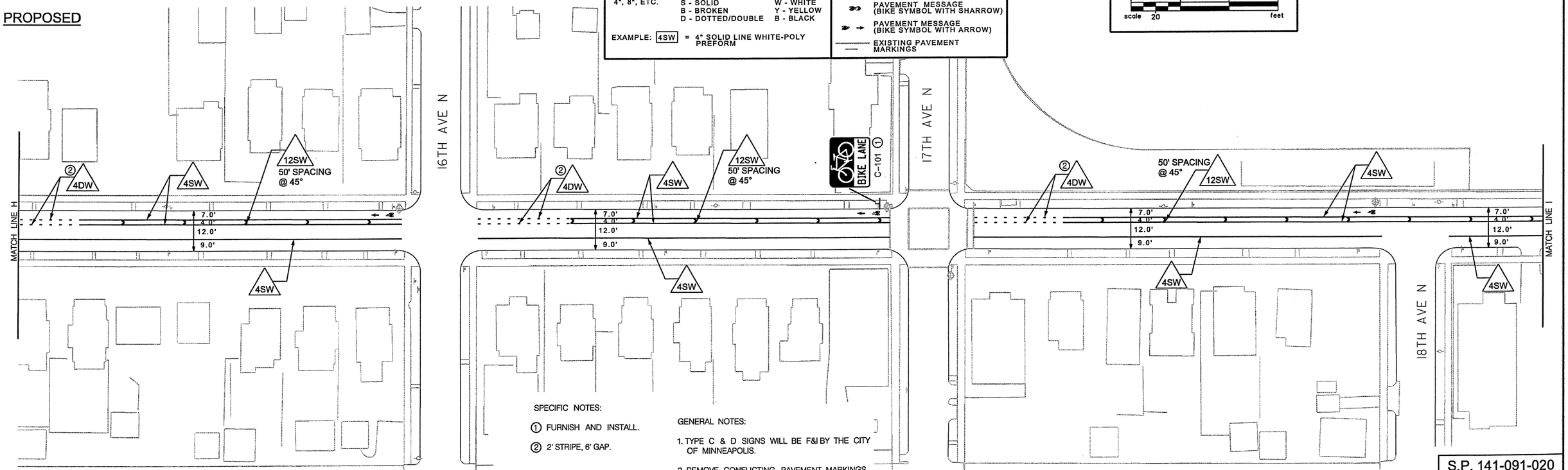

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID	W - WHITE
	B - BROKEN	Y - YELLOW
	D - DOTTED/DOUBLE	B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

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- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

SPECIFIC NOTES:

1. FURNISH AND INSTALL.
2. 2' STRIPE, 6' GAP.

GENERAL NOTES:

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S.P. 141-091-020

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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

FREMONT AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438
10 OF 21
129 / 259

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plnsht 10

7:14:59 AM

6/18/2010

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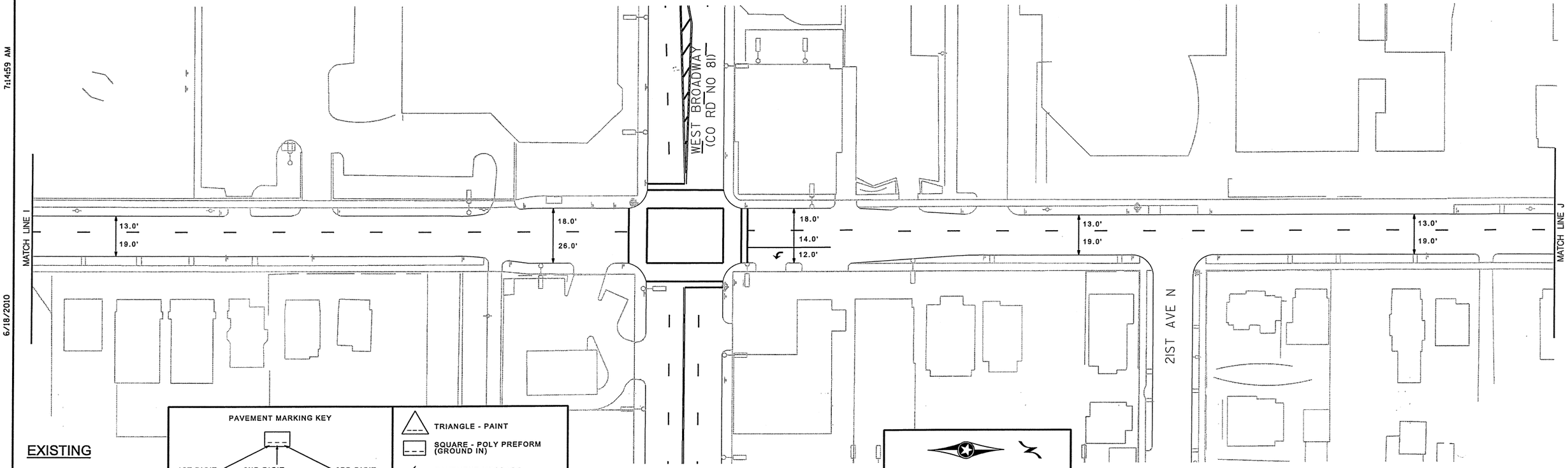
plnsht 11

EXISTING



PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

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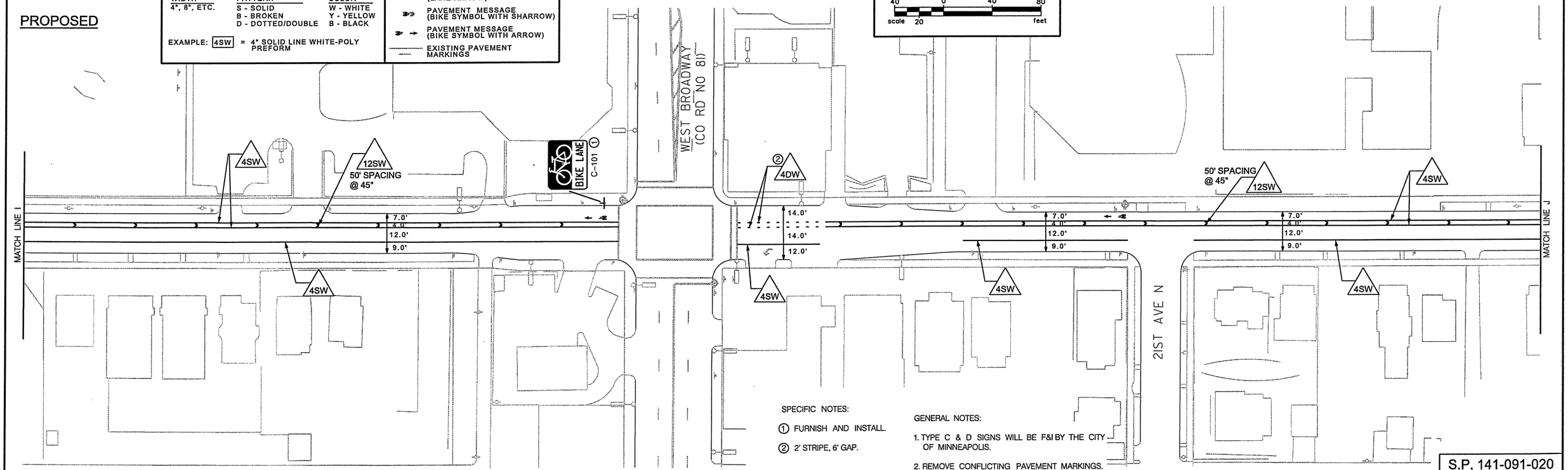
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

PROPOSED



SPECIFIC NOTES:

① FURNISH AND INSTALL.

② 2' STRIPE, 6' GAP.

GENERAL NOTES:

1. TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.
2. REMOVE CONFLICTING PAVEMENT MARKINGS.

S.P. 141-091-020

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: MTT				
DESIGNER: DRB				
CHECKED BY: HNK				

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Certified By: _____ Lic. No. 42804
Licensed Professional Engineer
Printed Name: HEATHER N. KIENITZ Date: 6/18/2010

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

SEH
PHONE: (651)490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

FREMONT AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

II OF 21

130 / 259

7:15:02 AM

6/18/2010

S:\K0\M\Mnpls\107438\5-dsgn\51-cadd\Civil\plnshts\Phase 2\Emerson & Fremont Av N.SS.dgn
plnsht 12

EXISTING

PAVEMENT MARKING KEY

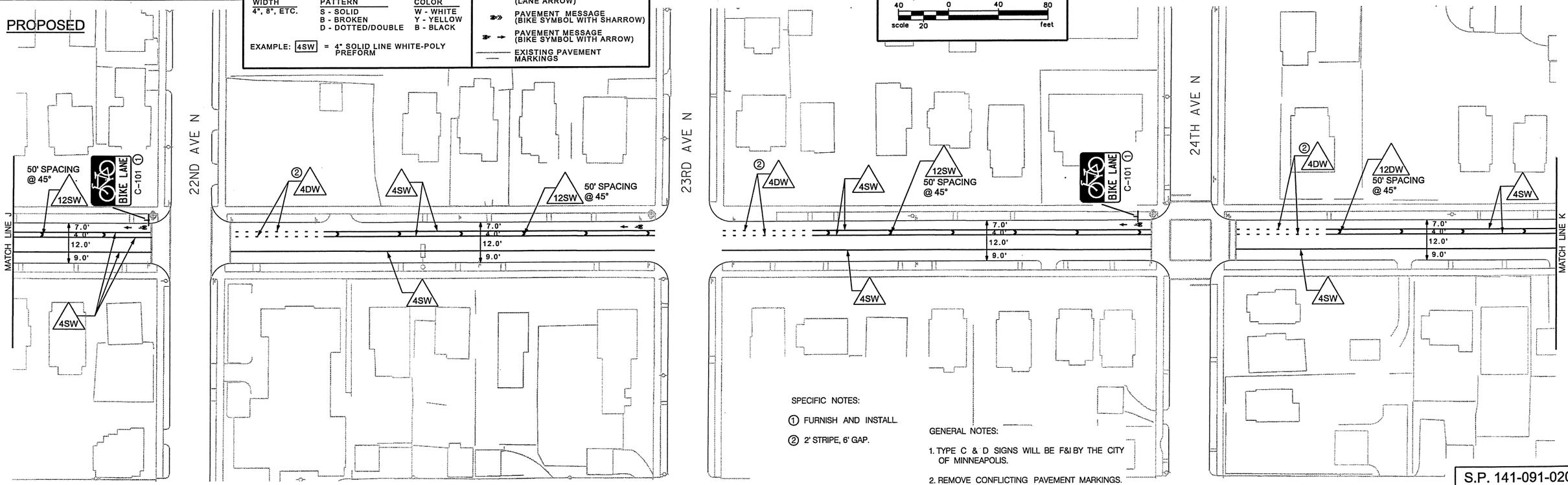
1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE (LANE ARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

PROPOSED



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FREMONT AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438
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6/18/2010

25TH AVE N

26TH AVE N

27TH AVE N

MATCH LINE K

MATCH LINE L

13.0'

19.0'

EXISTING

PROPOSED

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

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- PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)
- PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

12SW 50' SPACING @ 45°

4DW

4SW

7.0' 4.0' 12.0' 9.0'

D-146 ①
Downtown 3
Plymouth Av 1

BIKE LANE C-101 ①

D-145 ①
2nd St N
Theo Wirth Pkwy 1

SPECIFIC NOTES:

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② 2' STRIPE, 6' GAP.

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S.P. 141-091-020

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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

FREMONT AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

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plnsht 13

7:15:10 AM

6/18/2010

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plnsht 14

EXISTING

PROPOSED

MATCH LINE L

MATCH LINE M

29TH AVE N

13.0'

19.0'

7.0'

4.0'

12.0'

9.0'

12SW
50' SPACING
@ 45°

4DW

4SW

BIKE LANE
C-101 ①

② 2' STRIPE, 6' GAP.

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID	W - WHITE
	B - BROKEN	Y - YELLOW
	D - DOTTED/DOUBLE	B - BLACK

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SQUARE - POLY PREFORM (GROUND IN)

PAVEMENT MESSAGE (LANE ARROW)

PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)

PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)

EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

SPECIFIC NOTES:

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② 2' STRIPE, 6' GAP.

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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

FREMONT AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

14 OF 21

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7:15:15 AM

6/18/2010

S:\K0\M\Mnpls\107438\5-dsgn\5I-cadd\Civil\plnshts\Phase 2\Emerson & Fremont Av N_SS.dgn

plnsht 15

EXISTING

30TH AVE N

LOWRY AVE N (CO RD NO 153)

MATCH LINE M

MATCH LINE N

13.0'

19.0'

18.0'

11.0'

11.0'

PAVEMENT MARKING KEY

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PAVEMENT MESSAGE (BIKE SYMBOL WITH SHARROW)

PAVEMENT MESSAGE (BIKE SYMBOL WITH ARROW)

EXISTING PAVEMENT MARKINGS

40 0 40 80

scale 20 feet

PROPOSED

D-148 ①

Downtown 3

26th Av N

BIKE LANE C-101 ①

LEFT LANE ENDS C-114 ①

2nd St N

Theo Wirth Pkwy 1½

D-147 ①

12SW 50' SPACING @ 45°

② 4DW

4SW

4BW

7.0'

4.0'

12.0'

9.0'

8.0'

6.0'

13.0'

13.0'

SPECIFIC NOTES:

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FREMONT AVENUE NORTH BIKE LANE IMPROVEMENTS

FILE NO. MNPLS107438

15 OF 21

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