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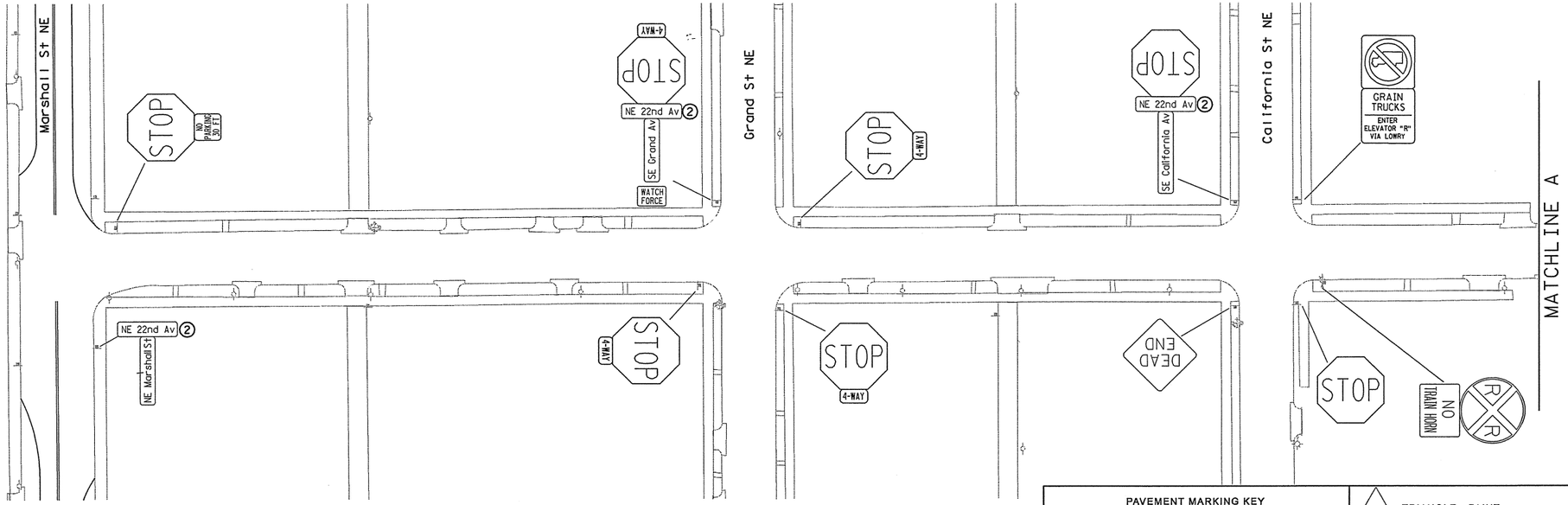


EXISTING AND REMOVALS

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

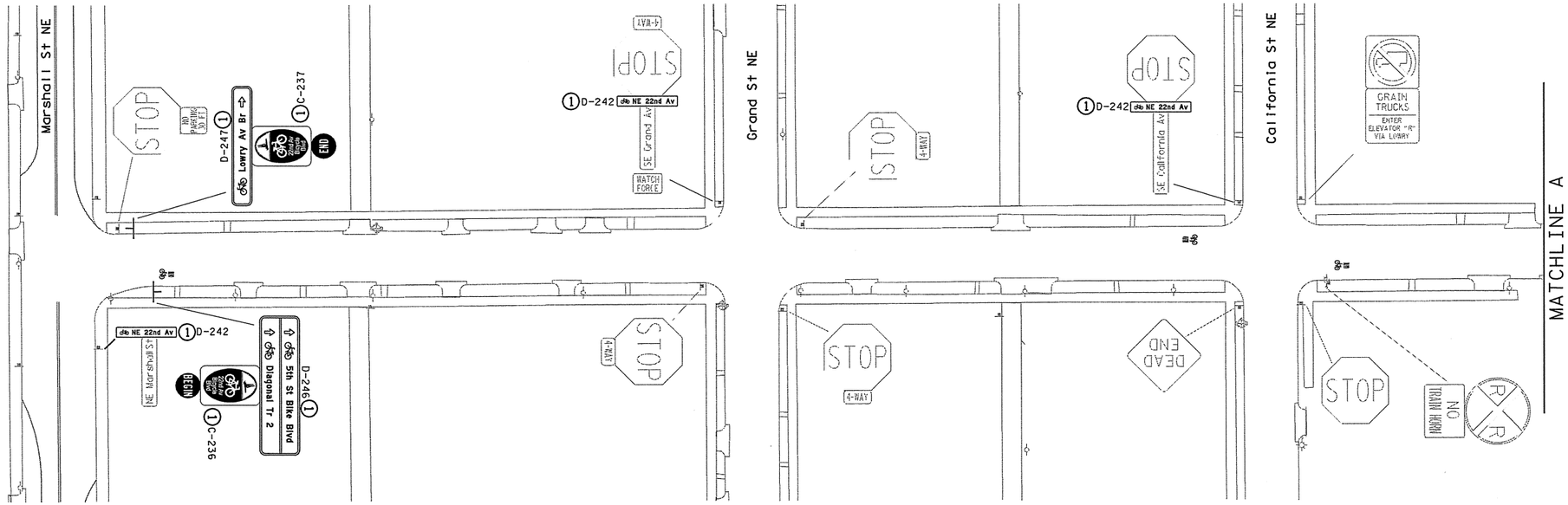
* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*
- PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
- PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMANT MARKING SPECIAL 3)*
- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

40 0 40 80

scale 20 feet

PROPOSED



SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

6/17/2010
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DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: KAS	0		03/30/10	
DESIGNER: KAB				
CHECKED BY: MRA				

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: _____ Licensed Professional Engineer Lic. No. 42828
Printed Name: Michael R Anderson Date: 06/18/10

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
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MINNEAPOLIS, MN 55415
(612)758-3080
(612)758-3099 FAX

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

22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

1 OF 12

191 / 259

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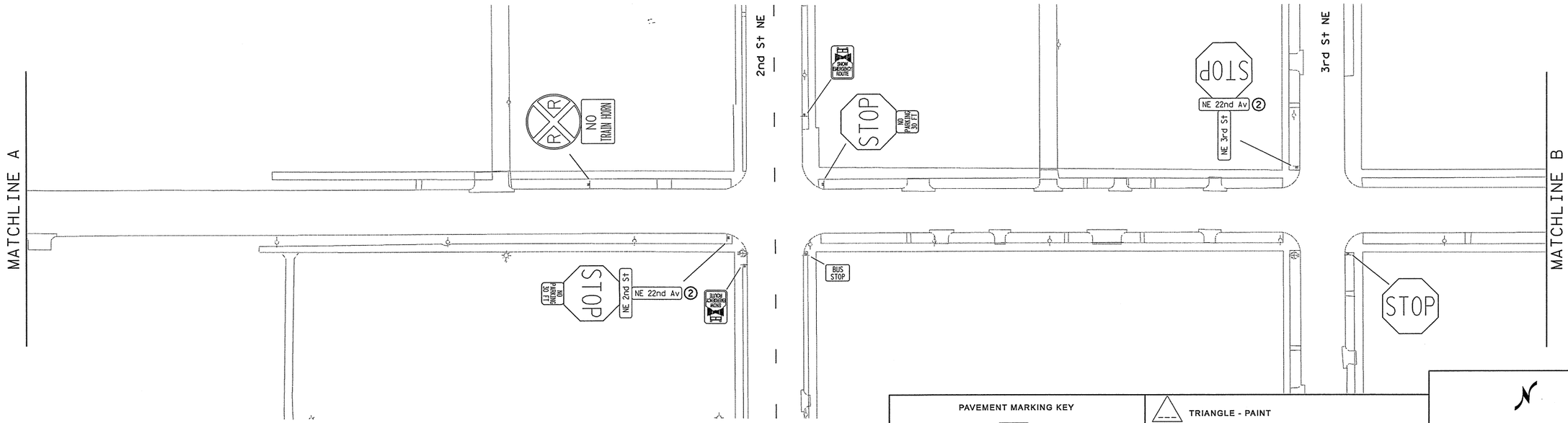
6/17/2010

EXISTING AND REMOVALS



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

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

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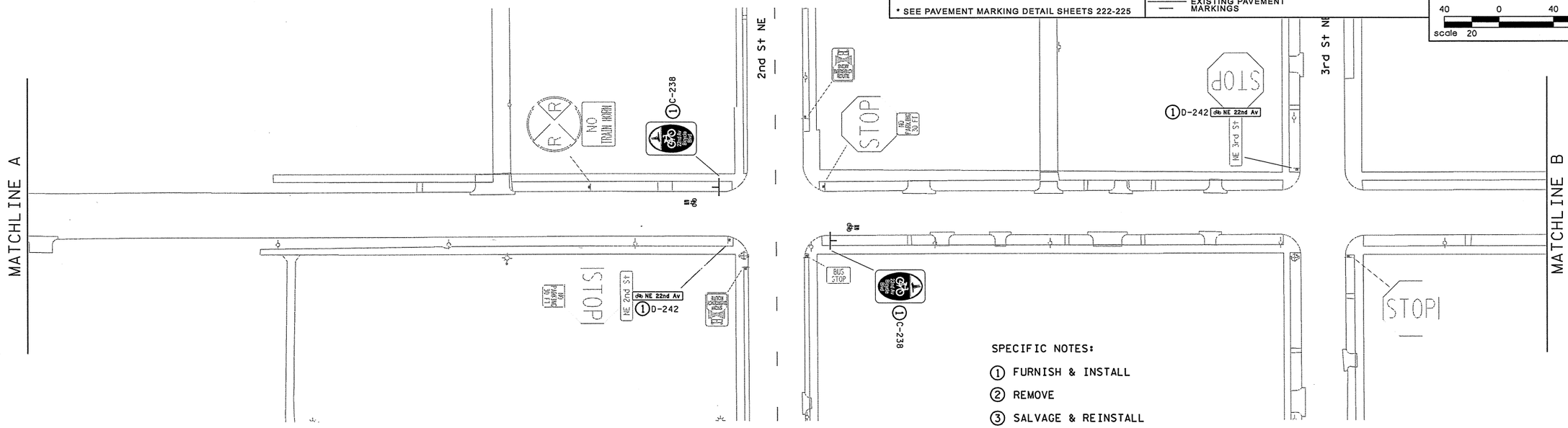
- PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
- PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMANT MARKING SPECIAL 3)*
- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

40 0 40 80

scale 20 feet

PROPOSED



SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: KAS	0		03/30/10	
DESIGNER: KAB				
CHECKED BY: MRA				

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Certified By: _____ Licensed Professional Engineer Lic. No. 42828

Printed Name: Michael R Anderson Date: 06/18/10

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233 PARK AVENUE SOUTH
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MINNEAPOLIS, MINNESOTA

S.P. 141-091-020

22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

2 OF 12

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6/17/2010
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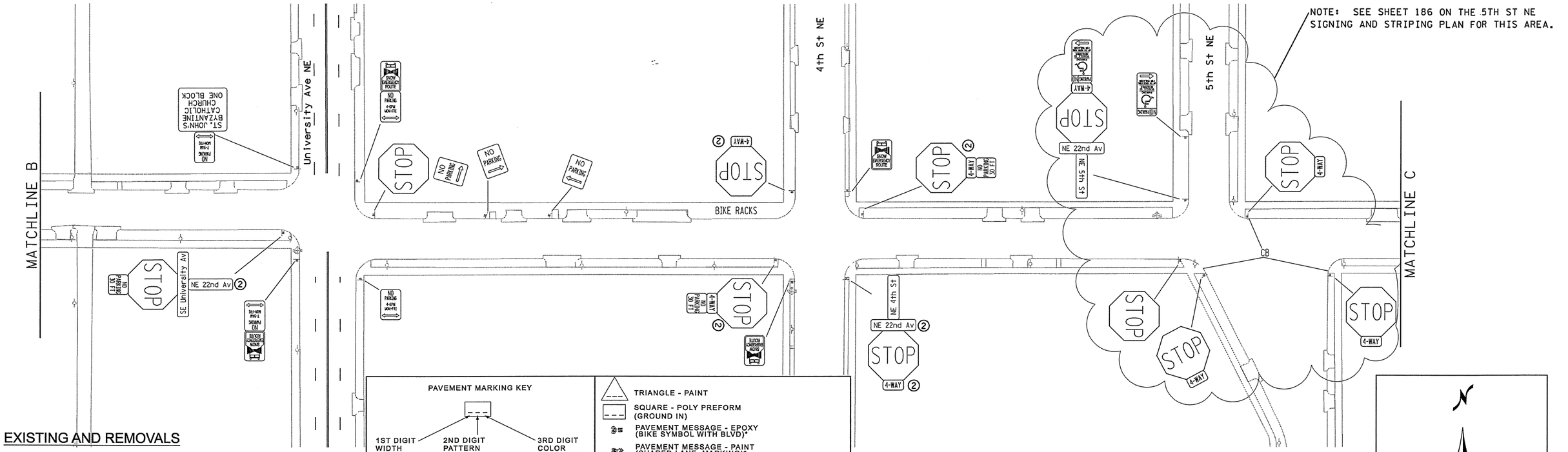
6/17/2010

EXISTING AND REMOVALS



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

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

- TRIANGLE - PAINT
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- PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*
- PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
- PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMANT MARKING SPECIAL 3)*
- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

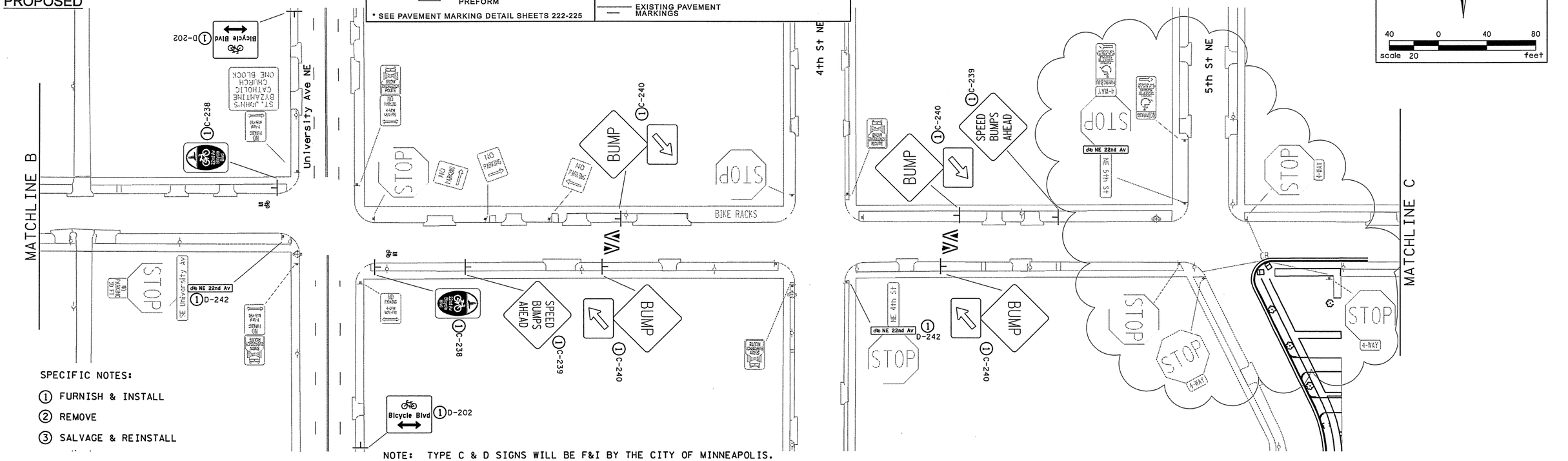
NOTE: SEE SHEET 186 ON THE 5TH ST NE SIGNING AND STRIPING PLAN FOR THIS AREA.

N

40 0 40 80

scale 20 feet

PROPOSED



SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: KAS	0		03/30/10	
DESIGNER: KAB				
CHECKED BY: MRA				

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. 42828
Licensed Professional Engineer

Printed Name: MichaelR Anderson Date: 06/18/10

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

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233 PARK AVENUE SOUTH
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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

3 OF 12

193 / 259

6/17/2010
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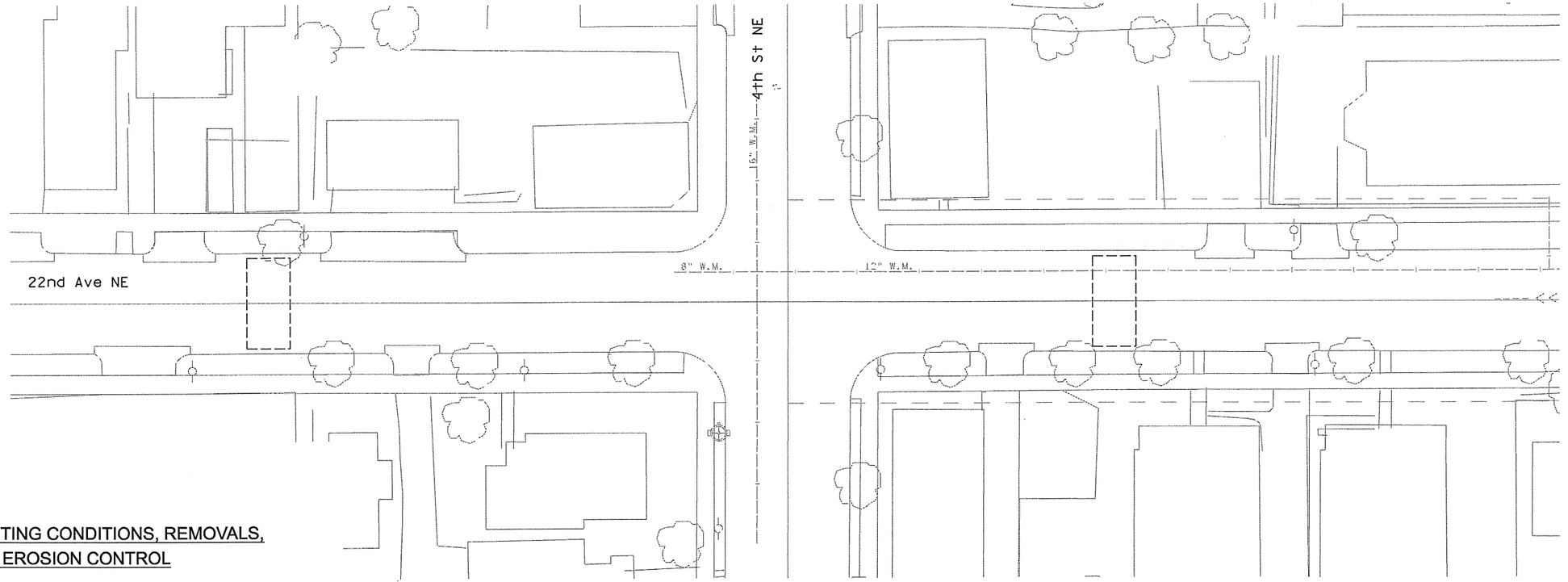
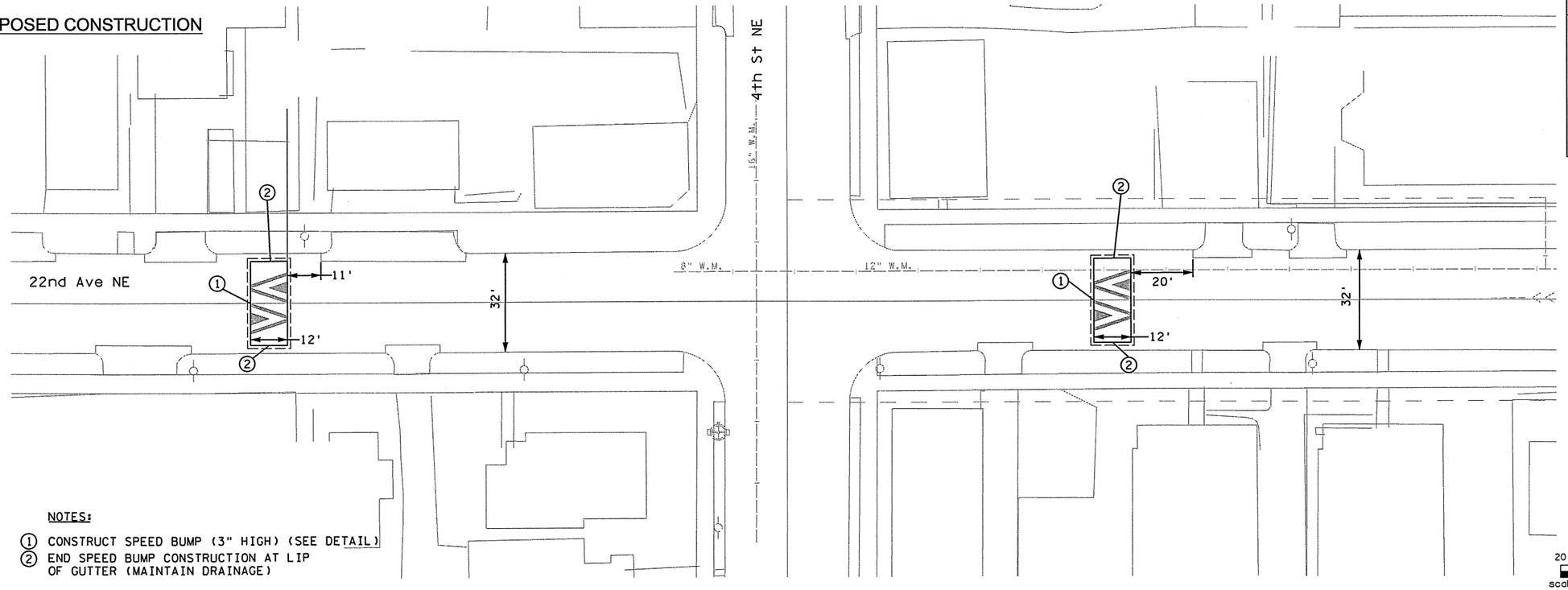


EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL

LEGEND

- REMOVE CURB AND GUTTER
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE CONCRETE DRIVEWAY APRON
- SAWCUT PAVEMENT OR SIDEWALK (FULL DEPTH) (REFER TO PLAN FOR PAVEMENT/ SURFACE TYPE)
- SILT FENCE
- INLET PROTECTION
- CONSTRUCTION LIMITS
- RIGHT OF WAY

PROPOSED CONSTRUCTION



NOTES:

1. CONSTRUCT SPEED BUMP (3" HIGH) (SEE DETAIL)
2. END SPEED BUMP CONSTRUCTION AT LIP OF GUTTER (MAINTAIN DRAINAGE)

LEGEND

- CURB AND GUTTER (SEE PLAN FOR TYPE)
- 3.5" CONCRETE WALK
- 6" CONCRETE WALK
- CONCRETE PAVEMENT (DRIVEWAY)
- SOD - TYPE SALT RESISTANT

REFER TO SIGNING AND PAVEMENT MARKING PLAN FOR ADDITIONAL INFORMATION

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED

N

20 0 20 40
scale 10 feet

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY:				
DESIGNER:				
CHECKED BY:				

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: Steve Weser Lic. No. 40545
Licensed Professional Engineer
Printed Name: Steve Weser Date: 06/18/10

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

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(612)758-3080
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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

EXISTING CONDITIONS, REMOVALS, EROSION CONTROL, AND CONSTRUCTION PLANS
22ND AVE NE AT 4TH ST NE

FILE NO. 109-0032
13 OF 15

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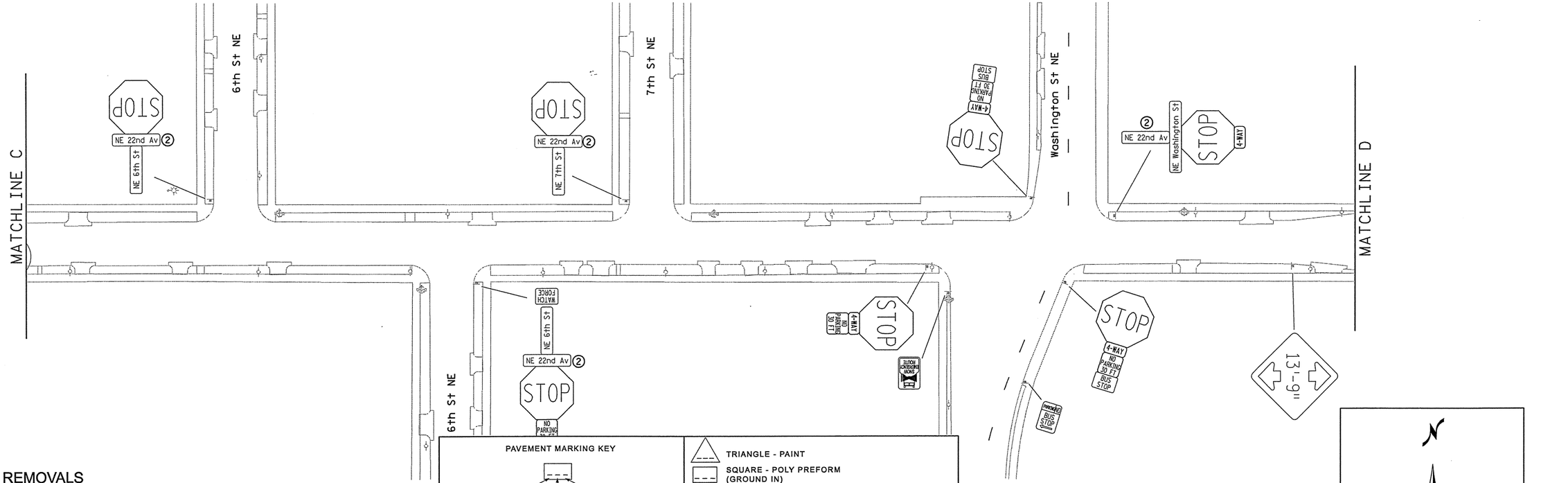
EXISTING AND REMOVALS



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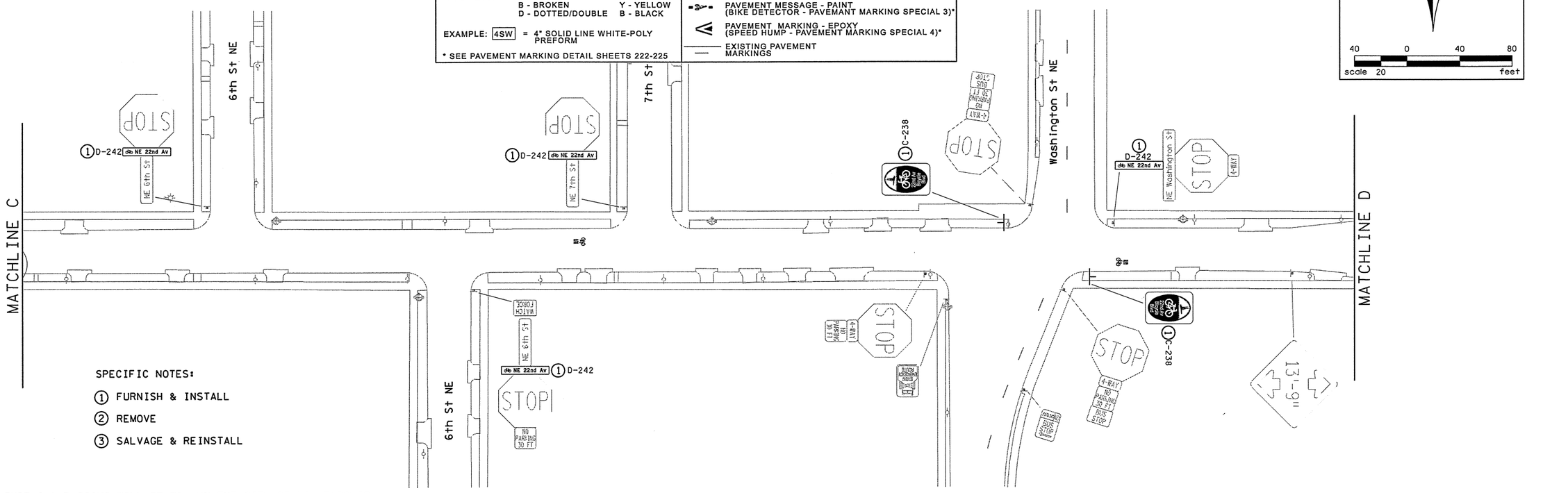

PAVEMENT MARKING KEY

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

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*
- PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
- PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMANT MARKING SPECIAL 3)*
- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

N

40 0 40 80

scale 20 feet

SPECIFIC NOTES:

(1) FURNISH & INSTALL
(2) REMOVE
(3) SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: KAS	0		03/30/10	
DESIGNER: KAB				
CHECKED BY: MRA				

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: _____ Licensed Professional Engineer Lic. No. 42828
Printed Name: Michael R Anderson Date: 06/18/10

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

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233 PARK AVENUE SOUTH
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MINNEAPOLIS, MN 55415
(612)758-3080
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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

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6/17/2010
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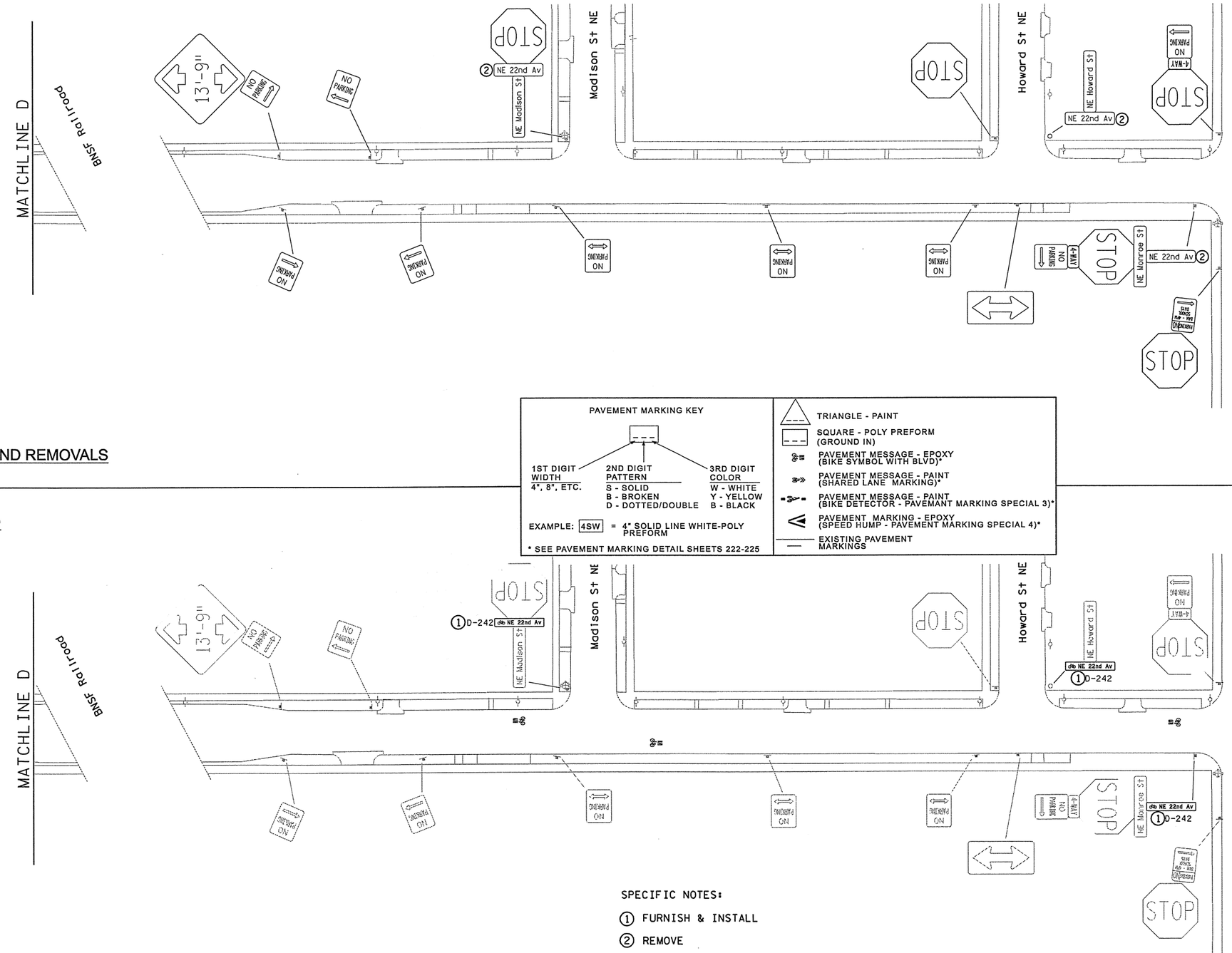
EXISTING AND REMOVALS

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

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

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

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- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

N

40 0 40 80
scale 20 feet

SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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DRAWN BY: KAS	0		03/30/10	
DESIGNER: KAB				
CHECKED BY: MRA				

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Certified By: _____ Licensed Professional Engineer Lic. No. 42828
Printed Name: Michael R Anderson Date: 06/18/10

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

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233 PARK AVENUE SOUTH
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(612)758-3080
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MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

5 OF 12

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6/17/2010
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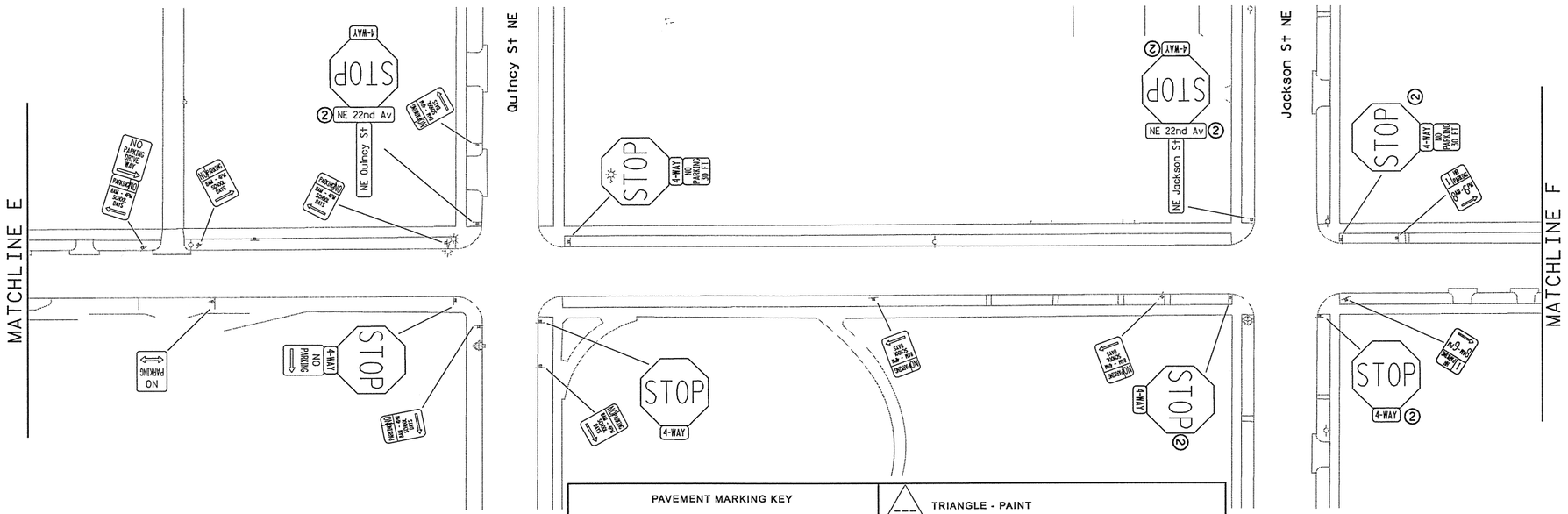
EXISTING AND REMOVALS



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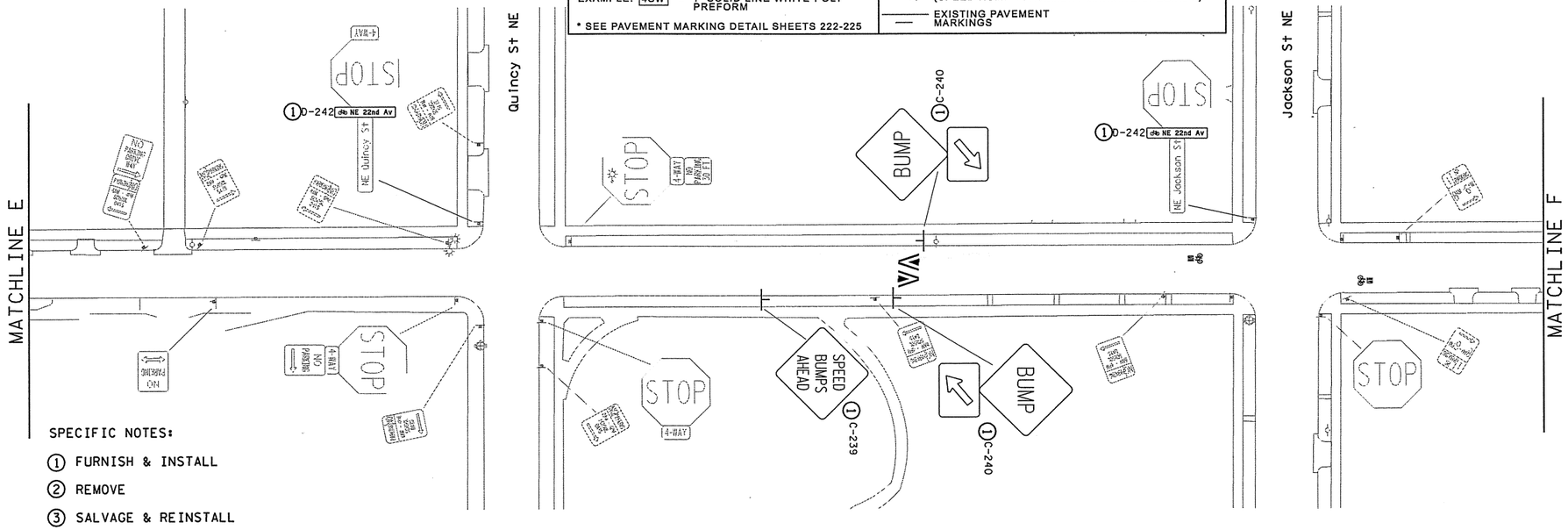

SPECIFIC NOTES:

(1) FURNISH & INSTALL

(2) REMOVE

(3) SALVAGE & REINSTALL

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

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

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- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

N

40 0 40 80

scale 20 feet

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: KAS	0		03/30/10	
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MINNEAPOLIS, MINNESOTA

S.P. 141-091-020

22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

6 OF 12

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6/17/2010 X:\2009\090032\DESIGN\SHEETS\cd090032_stp_22nd06.dgn

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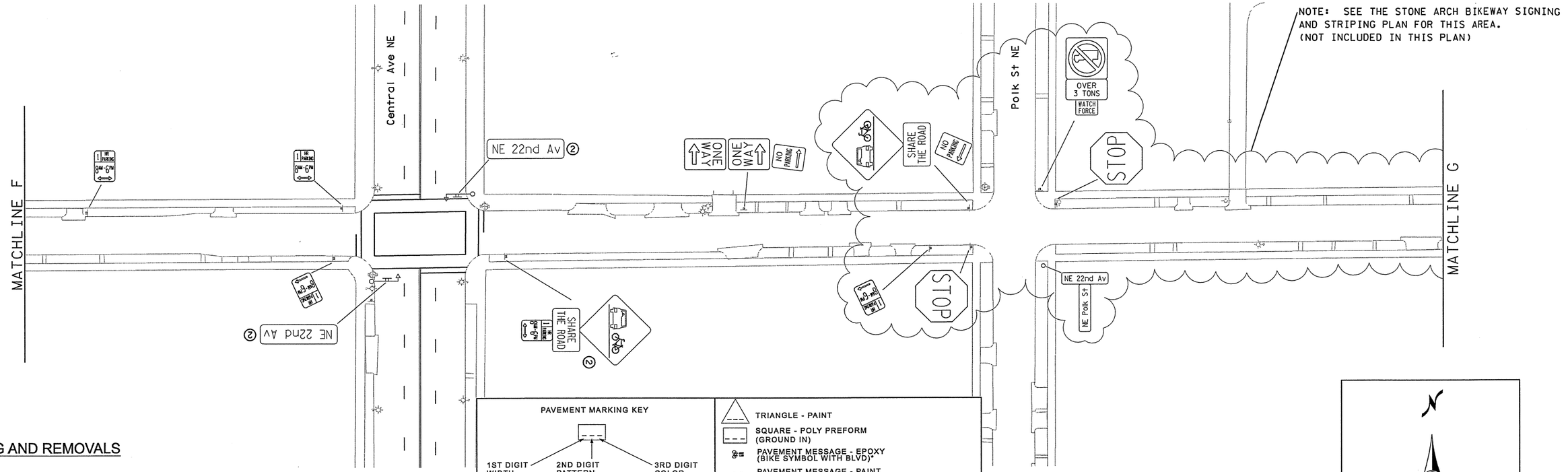
EXISTING AND REMOVALS



PAVEMENT MARKING KEY

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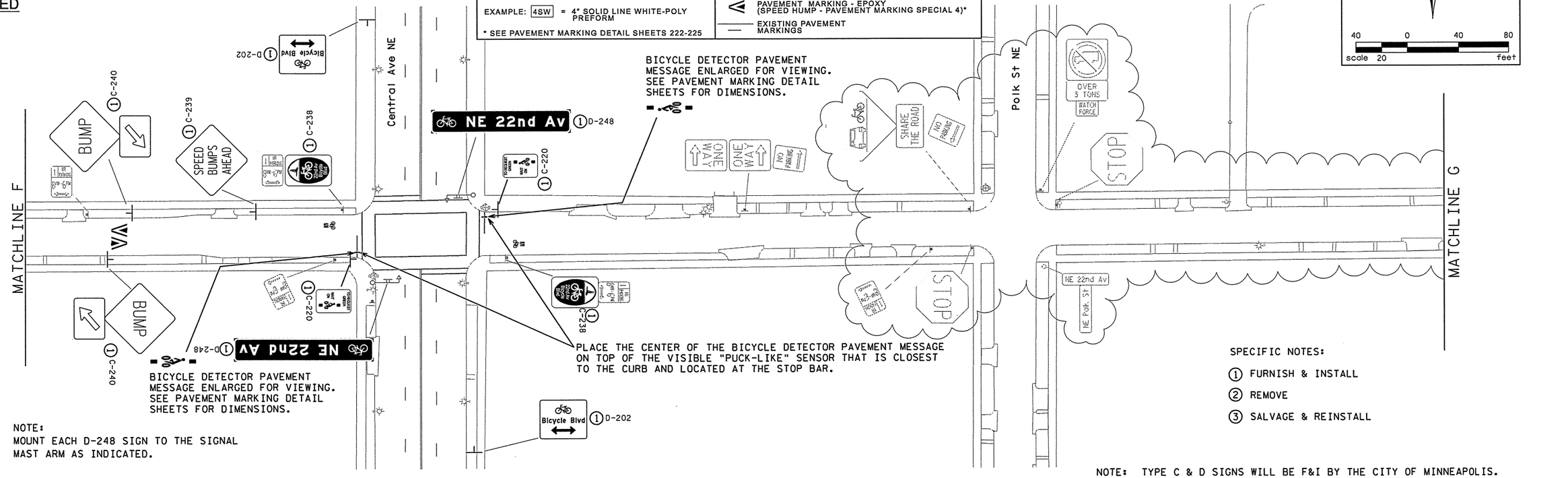
- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

PROPOSED



NOTE:
MOUNT EACH D-248 SIGN TO THE SIGNAL MAST ARM AS INDICATED.

N

40 0 40 80
scale 20 feet

SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

6/17/2010
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DESIGN TEAM	NO.	BY	DATE	REVISIONS
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DESIGNER: KAB				
CHECKED BY: MRA				

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: _____ Licensed Professional Engineer Lic. No. 42828
Printed Name: Michael R Anderson Date: 06/18/10

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

22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032
7 OF 12
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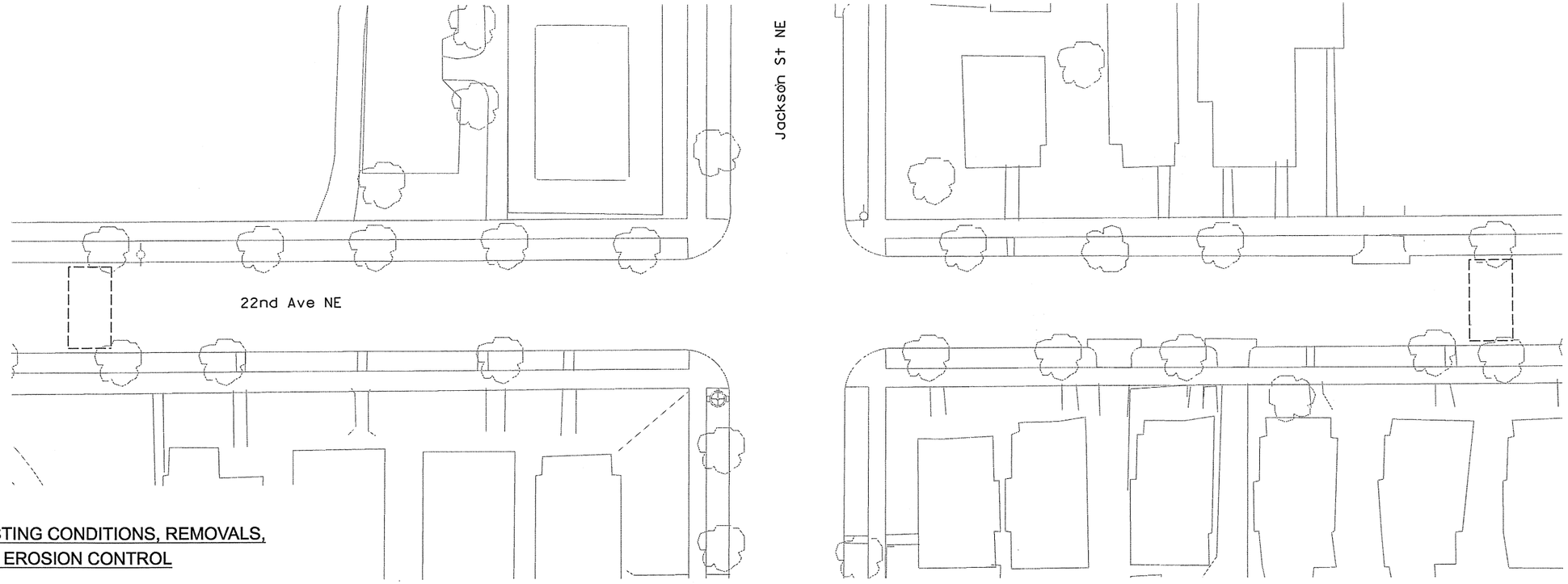
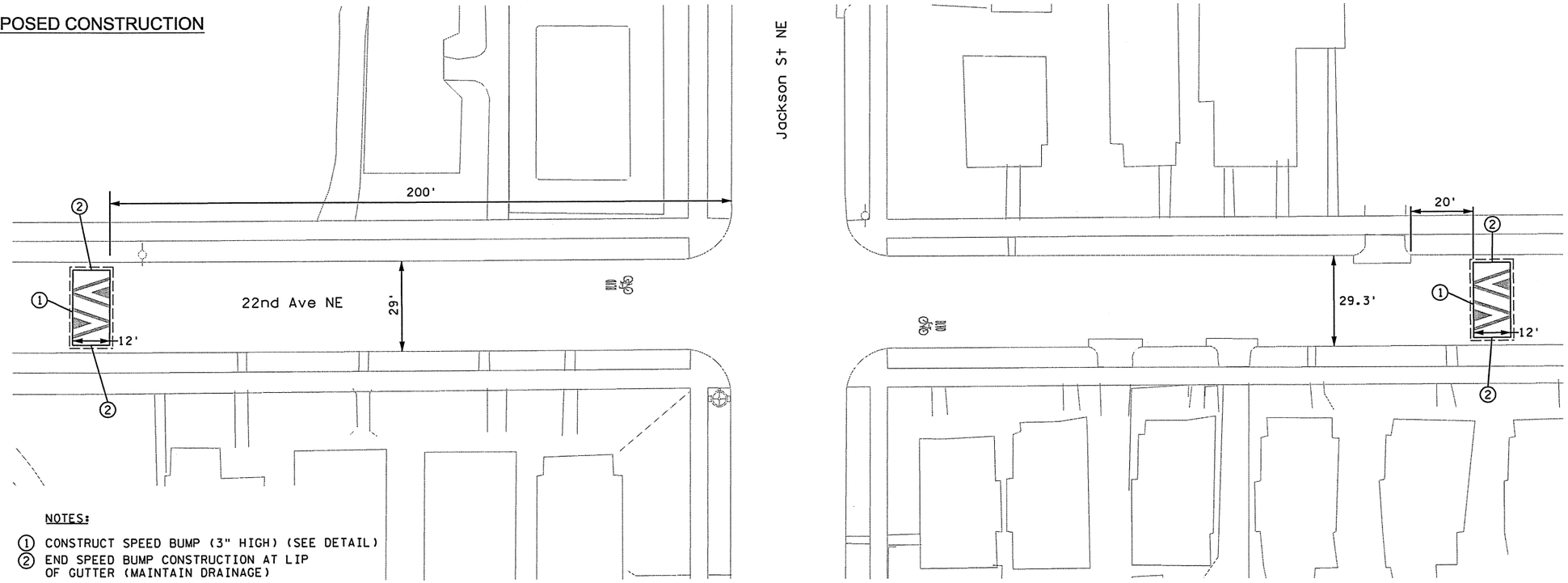


EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL

LEGEND

- REMOVE CURB AND GUTTER
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE CONCRETE DRIVEWAY APRON
- SAWCUT PAVEMENT OR SIDEWALK (FULL DEPTH) (REFER TO PLAN FOR PAVEMENT/ SURFACE TYPE)
- SILT FENCE
- INLET PROTECTION
- CONSTRUCTION LIMITS
- RIGHT OF WAY

PROPOSED CONSTRUCTION



NOTES:

1. CONSTRUCT SPEED BUMP (3" HIGH) (SEE DETAIL)
2. END SPEED BUMP CONSTRUCTION AT LIP OF GUTTER (MAINTAIN DRAINAGE)

LEGEND

- CURB AND GUTTER (SEE PLAN FOR TYPE)
- 3.5" CONCRETE WALK
- 6" CONCRETE WALK
- CONCRETE PAVEMENT (DRIVEWAY)
- SOD - TYPE SALT RESISTANT

REFER TO SIGNING AND PAVEMENT MARKING PLAN FOR ADDITIONAL INFORMATION

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED

N

20 0 20 40
scale 10 feet

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY:				
DESIGNER:				
CHECKED BY:				

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. 40545
Licensed Professional Engineer
Printed Name: Steve Weser Date: 06/18/10

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

EXISTING CONDITIONS, REMOVALS, EROSION CONTROL, AND CONSTRUCTION PLANS
22ND AVE NE AT JACKSON ST NE

FILE NO. 109-0032
14 OF 15
47 / 259

6/17/2010
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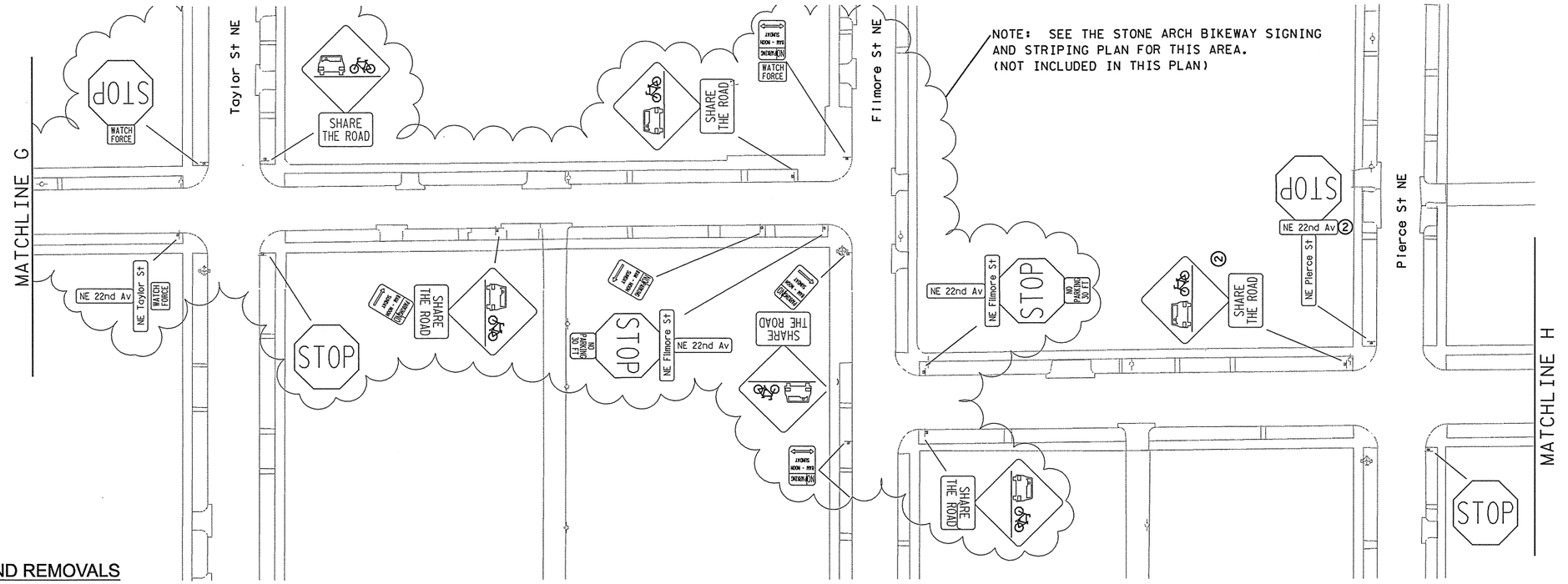
6/17/2010

EXISTING AND REMOVALS



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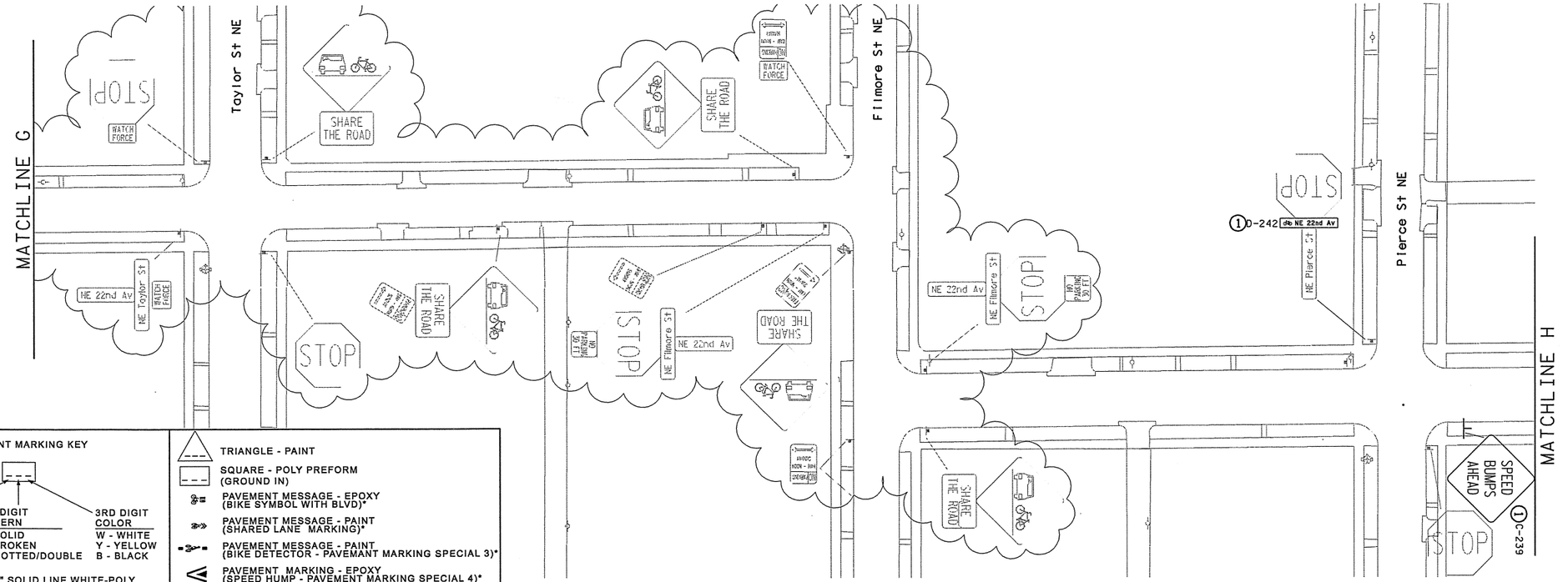

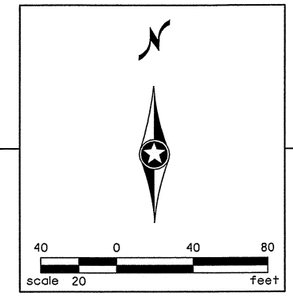

PAVEMENT MARKING KEY

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

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*
- PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
- PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMANT MARKING SPECIAL 3)*
- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: KAS	0		03/30/10	
DESIGNER: KAB				
CHECKED BY: MRA				

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: _____ Licensed Professional Engineer Lic. No. 42828

Printed Name: Michael R Anderson Date: 06/18/10

MINNEAPOLIS DEPARTMENT OF PUBLIC WORKS

ALLIANT ENGINEERING INCORPORATED
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(612)758-3080
(612)758-3099 FAX

MINNEAPOLIS, MINNESOTA

S.P. 141-091-020

22ND AVENUE NORTHEAST SIGNING AND PAVEMENT MARKING PLAN BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

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6/17/2010
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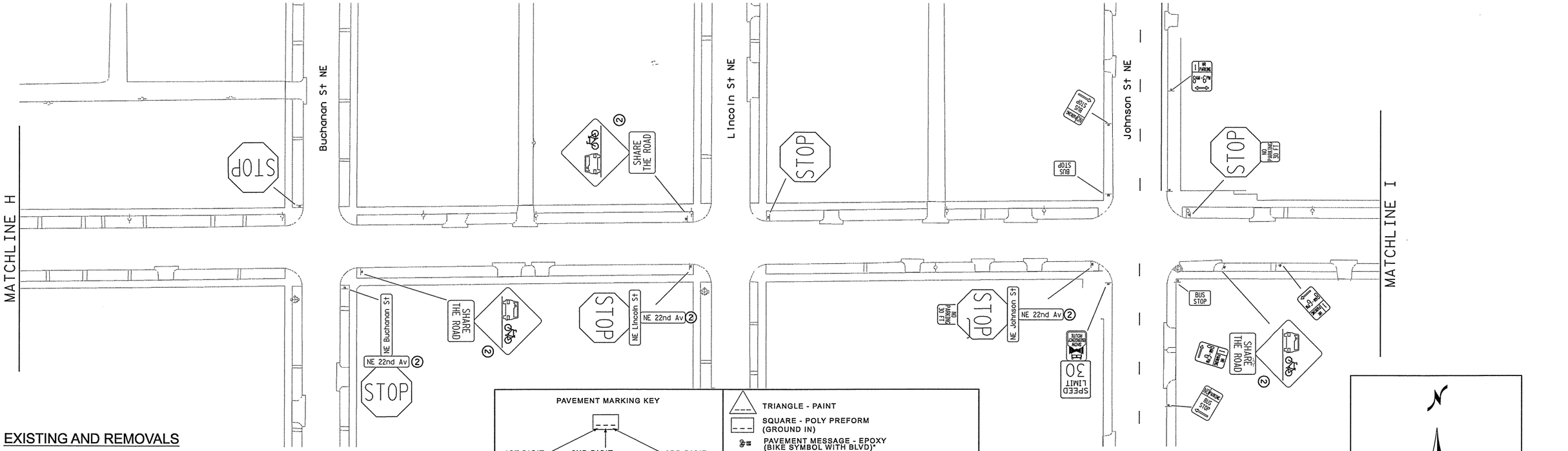
EXISTING AND REMOVALS



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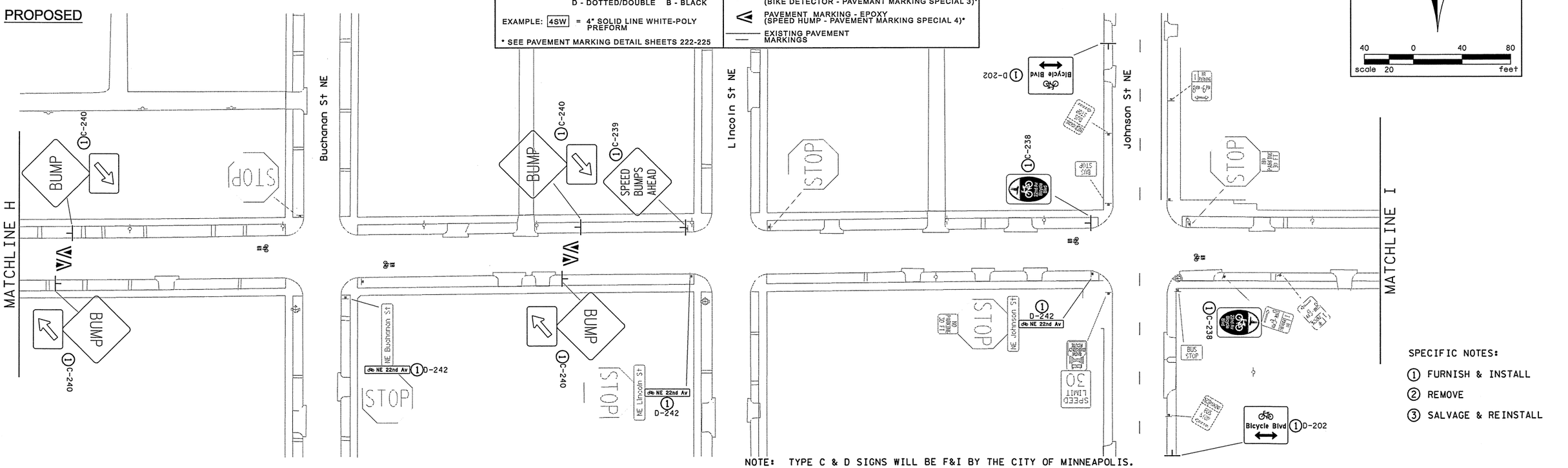

PAVEMENT MARKING KEY

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4", 8", ETC.	S - SOLID	W - WHITE
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- PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
- EXISTING PAVEMENT MARKINGS

40 0 40 80
scale 20 feet

SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY: KAS	0		03/30/10	
DESIGNER: KAB				
CHECKED BY: MRA				

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Certified By: _____ Licensed Professional Engineer Lic. No. 42828
Printed Name: Michael R Anderson Date: 06/18/10

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22ND AVENUE NORTHEAST SIGNING AND PAVEMENT MARKING PLAN BIKE LANE IMPROVEMENTS

FILE NO. 109-0032
9 OF 12
199 / 259

6/17/2010
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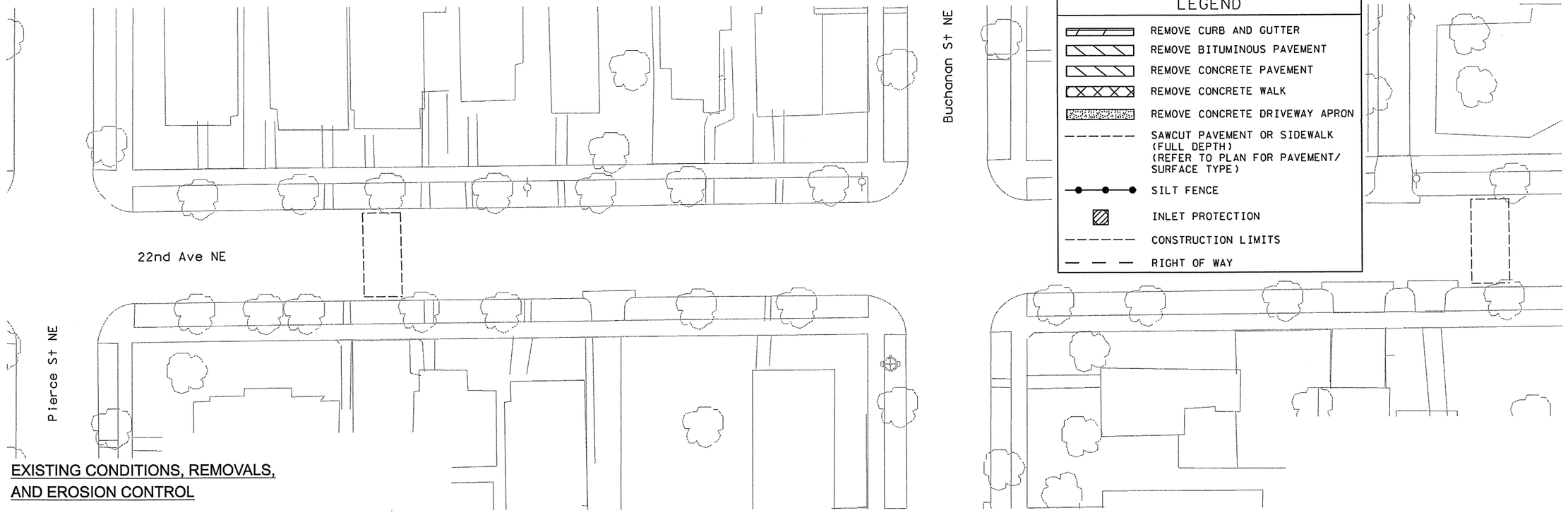
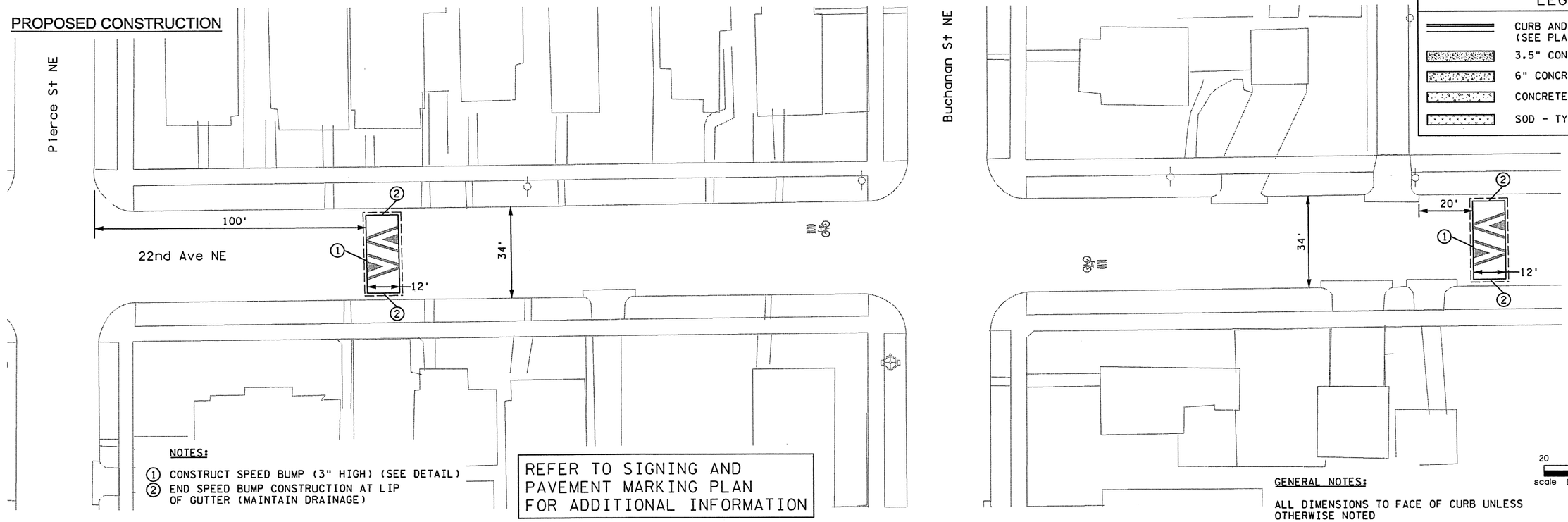


EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL

LEGEND

- REMOVE CURB AND GUTTER
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE CONCRETE DRIVEWAY APRON
- SAWCUT PAVEMENT OR SIDEWALK (FULL DEPTH) (REFER TO PLAN FOR PAVEMENT/ SURFACE TYPE)
- SILT FENCE
- INLET PROTECTION
- CONSTRUCTION LIMITS
- RIGHT OF WAY

PROPOSED CONSTRUCTION



LEGEND

- CURB AND GUTTER (SEE PLAN FOR TYPE)
- 3.5" CONCRETE WALK
- 6" CONCRETE WALK
- CONCRETE PAVEMENT (DRIVEWAY)
- SOD - TYPE SALT RESISTANT

NOTES:

1. CONSTRUCT SPEED BUMP (3" HIGH) (SEE DETAIL)
2. END SPEED BUMP CONSTRUCTION AT LIP OF GUTTER (MAINTAIN DRAINAGE)

REFER TO SIGNING AND PAVEMENT MARKING PLAN FOR ADDITIONAL INFORMATION

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED

N

20 0 20 40
scale 10 feet

DESIGN TEAM	NO.	BY	DATE	REVISIONS
DRAWN BY:				
DESIGNER:				
CHECKED BY:				

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: _____ Licensed Professional Engineer Lic. No. 40545
Printed Name: Steve Weser Date: 06/18/10

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EXISTING CONDITIONS, REMOVALS, EROSION CONTROL, AND CONSTRUCTION PLANS
22ND AVE NE AT BUCHANAN ST NE

FILE NO. 109-0032
15 OF 15
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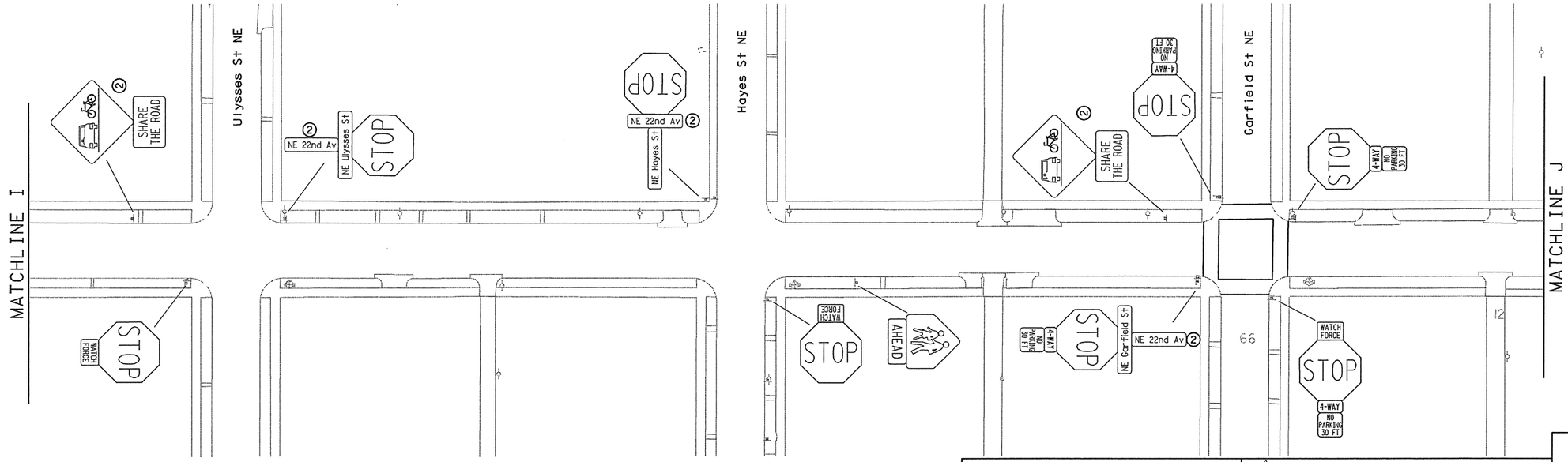
6/17/2010

EXISTING AND REMOVALS



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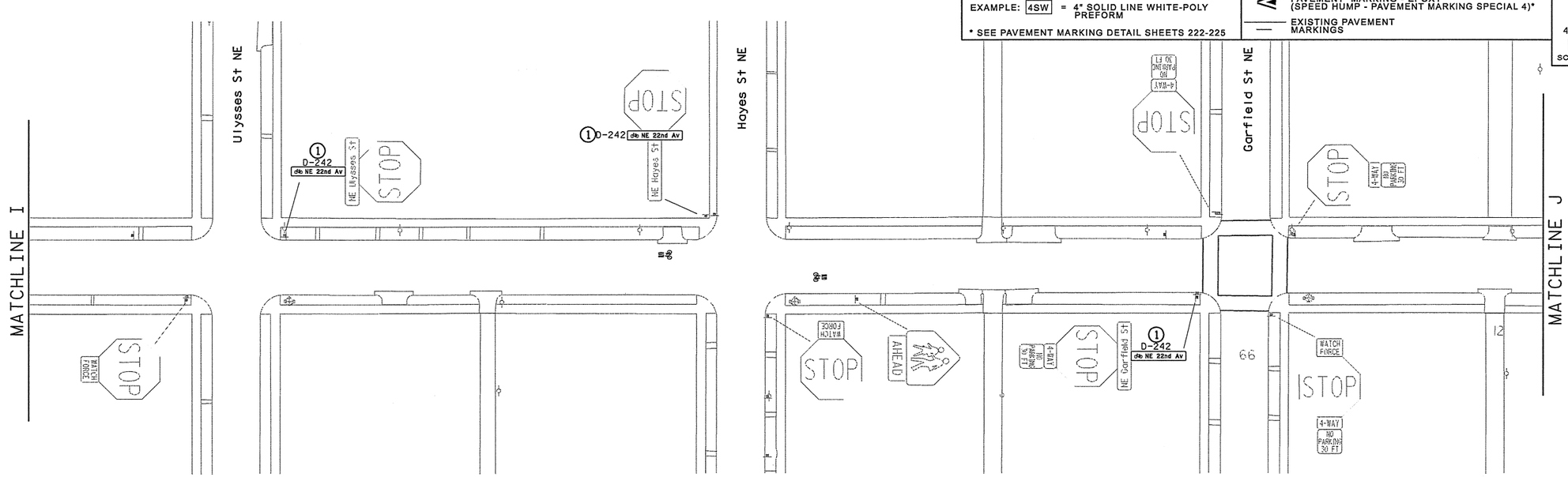

PAVEMENT MARKING KEY

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

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

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- EXISTING PAVEMENT MARKINGS

N

40 0 40 80

scale 20 feet

SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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DESIGNER: KAB				
CHECKED BY: MRA				

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Certified By: _____ Lic. No. 42828
Licensed Professional Engineer

Printed Name: Michael R Anderson Date: 06/18/10

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22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

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6/17/2010
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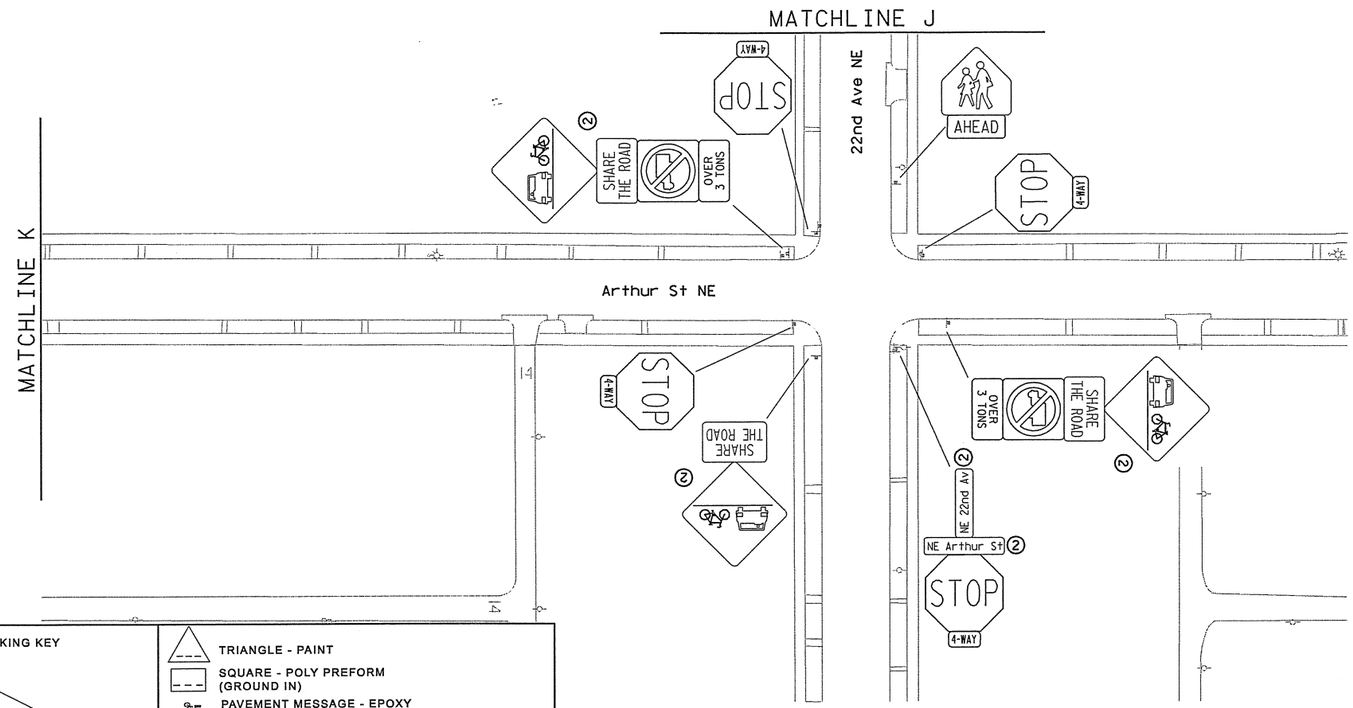
EXISTING AND REMOVALS

PROPOSED



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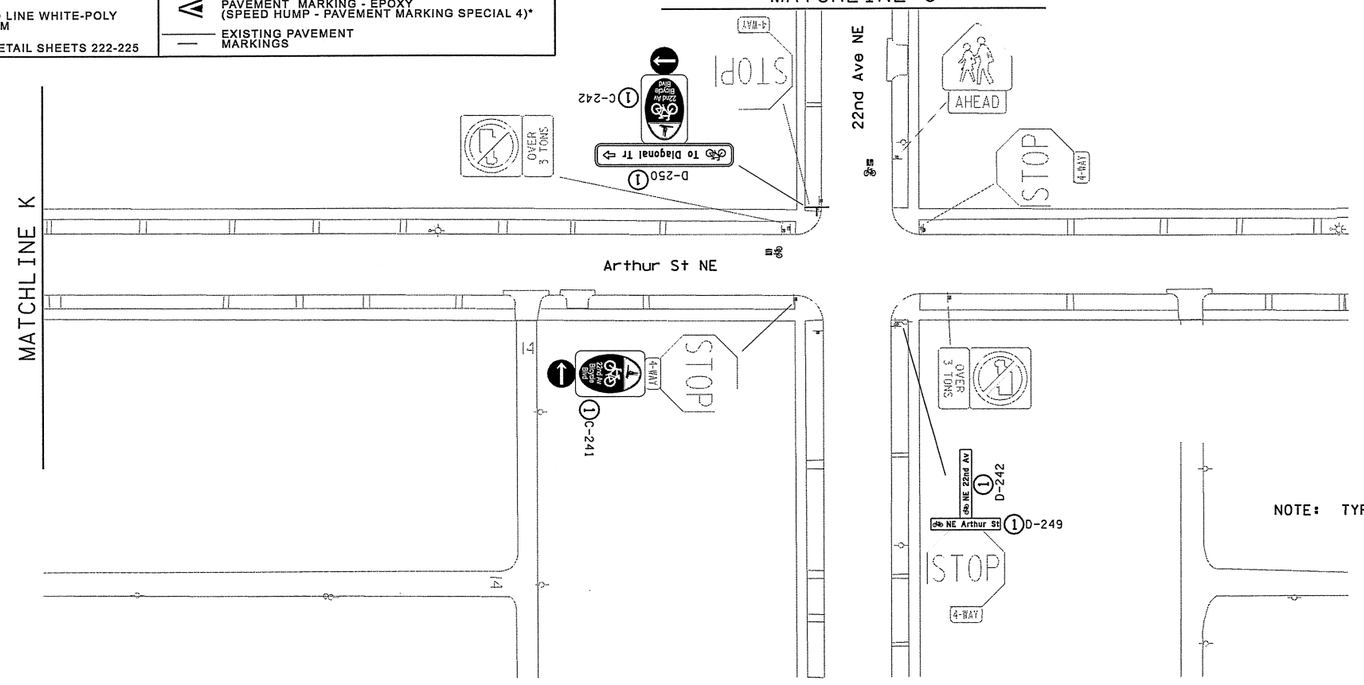

40 0 40 80

scale 20 feet

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22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032

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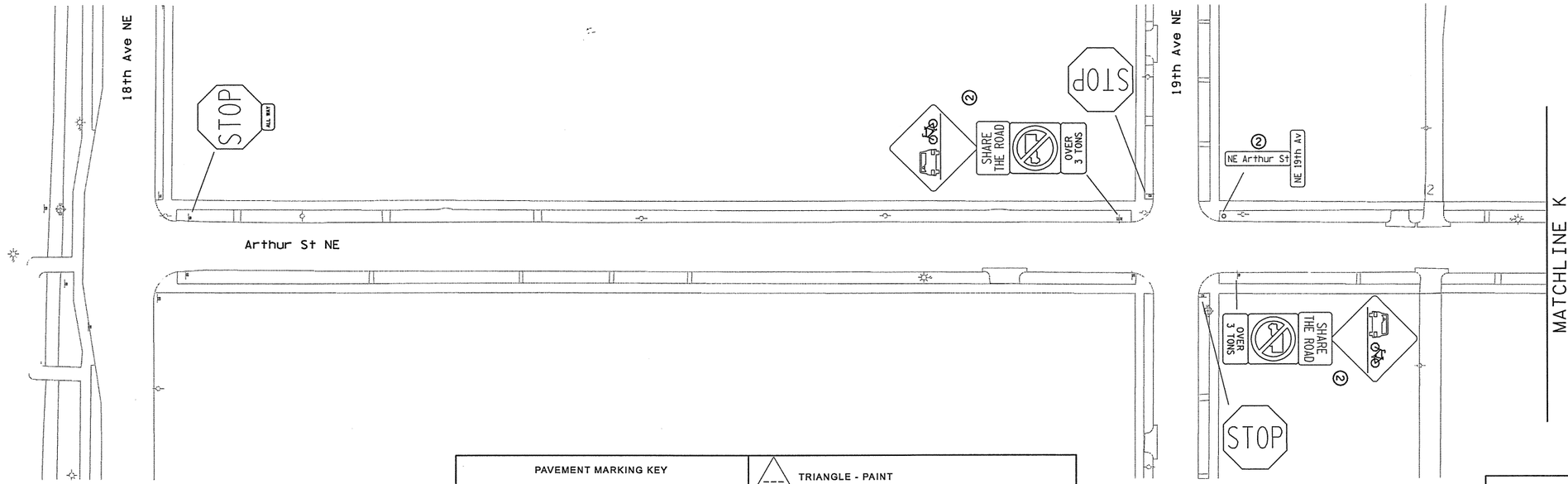
6/17/2010

EXISTING AND REMOVALS



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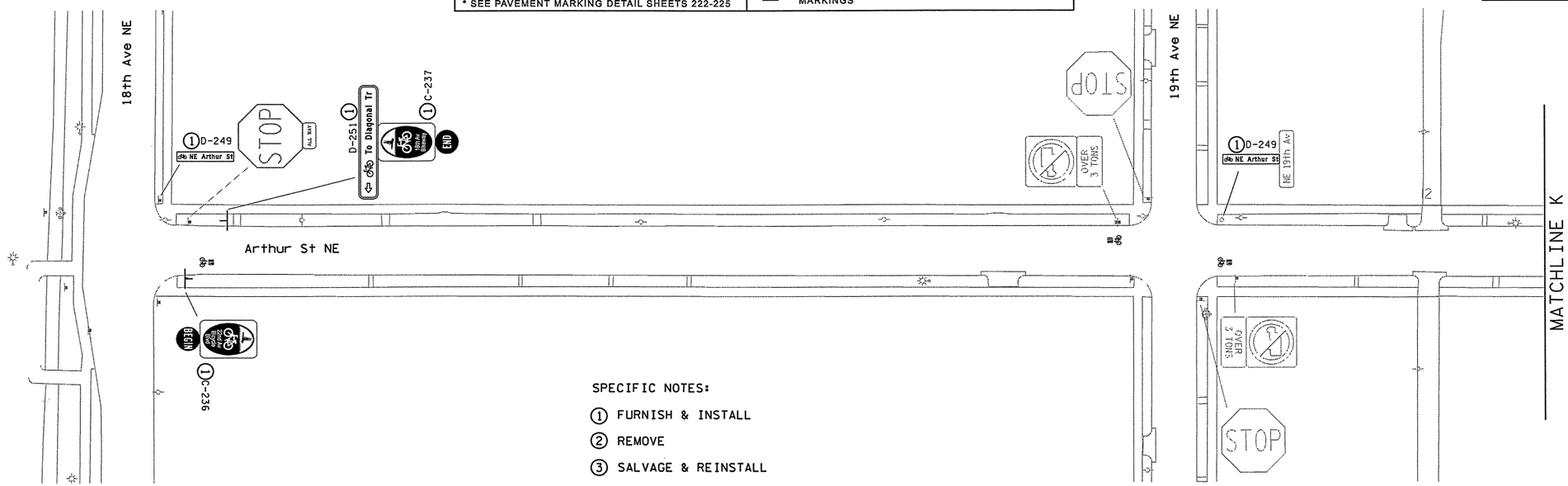
40 0 40 80
scale 20 feet

PROPOSED



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22ND AVENUE NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032
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