RHI SEPTEMBER 2013

PROJECT ID: 6999-02-78
WITH: N/A

COUNTY: MARATHON

ORDER OF SHEETS

Section No. 1 Title
Section No. 2 Typical Sections and Details (Includes Erosion Control Plans)
Section No. 3 Estimate of Quantities
Section No. 3 Miscellaneous Quantities
~~Section No. 4 Right-of-Way Plat~~
Section No. 5 Plan and Profile
Section No. 6 Standard Detail Drawings
Section No. 7 Sign Plates
~~Section No. 8 Structure Plans~~
~~Section No. 9 Computer Earthwork Data~~
~~Section No. 9 Cross Sections~~

TOTAL SHEETS = 256

60

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CITY OF WAUSAU, GRAND AVENUE

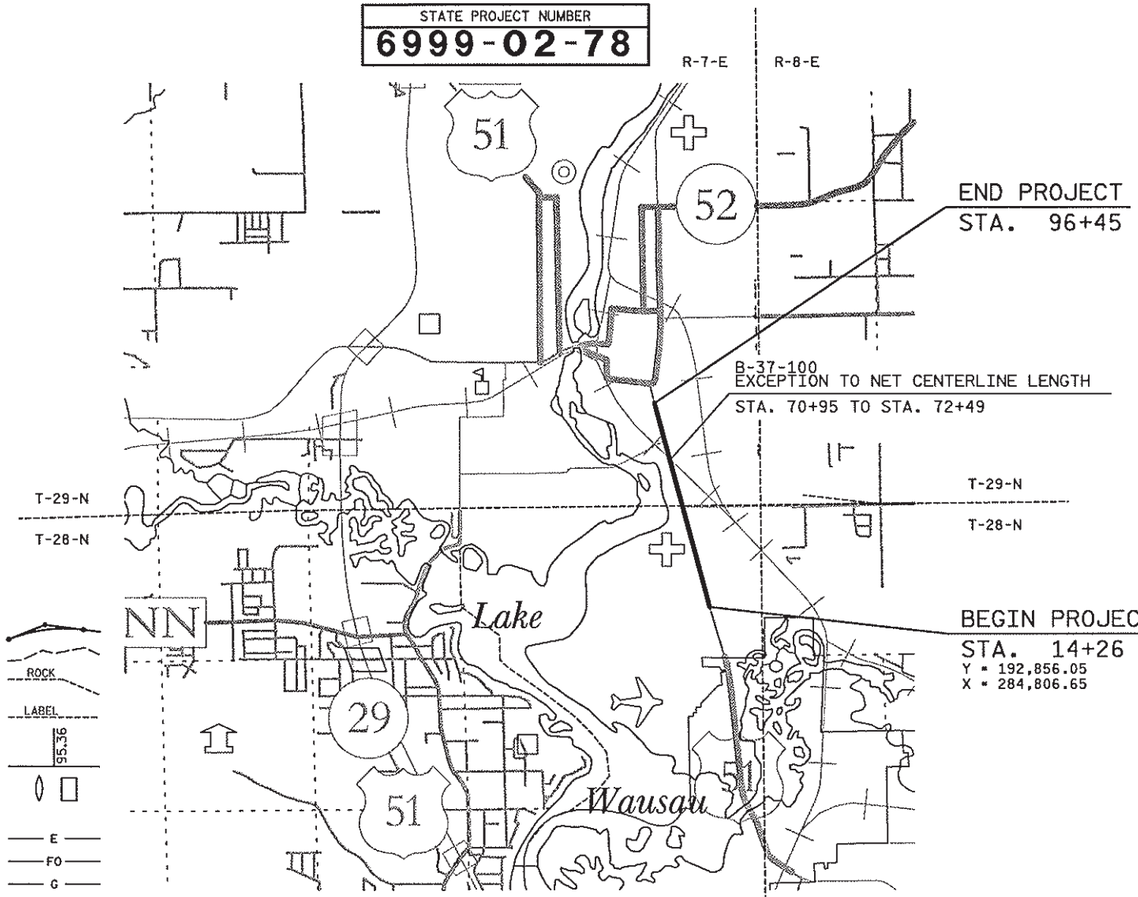
KENT STREET TO DIVISION STREET

BUSINESS 51

MARATHON COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6999-02-78	WISC 2013424	1

STATE PROJECT NUMBER
6999-02-78



LAYOUT

SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.527 MI.

DESIGN DESIGNATION		BUS 51 (KENT TO THOMAS)	BUS 51 (THOMAS TO DIVISION)
A.A.D.T. (2014)	=	24,350	20,000
A.A.D.T. (2024)	=	27,200	22,300
D.H.V. (2024)	=	2,670	2,190
D.D.	=	59/41	59/41
T.	=	4.6%	4.6%
DESIGN SPEED	=	40 MPH	30 MPH
ESALS	=		

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MARATHON COUNTY

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

ORIGINAL PLANS PREPARED BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843

WISCONSIN
NED R. GRADY
E-36610
MADISON
WI
PROFESSIONAL ENGINEER

4/17/13 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	STRAND ASSOCIATES
Project Manager	RICHARD SIMON, PE
Regional Examiner	
Regional Supervisor	ROBIN STAFFORD, PE

APPROVED FOR THE DEPARTMENT

DATE: 4/29/13 (Signature)

E

GENERAL NOTES

MISCELLANEOUS
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE LOCATION OF PROPOSED SIGNS AS SHOWN ON THE PLANS ARE APPROXIMATE. ALL SIGNING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, AND THE WISCONSIN SUPPLEMENT TO THE MUTCD.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLAG LINE UNLESS OTHERWISE NOTED.

REMOVALS
NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

STORM DRAINAGE
THE CONTRACTOR SHALL NOT DAMAGE THE EXISTING STRUCTURES TO REMAIN IN PLACE ALONG THE PROJECT.

PAVING
A SAWED JOINT SHALL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

TIE BARS SHALL BE INSTALLED AT LOCATIONS WHERE NEW CONCRETE PAVEMENT ABUTS NEW CONCRETE CURB AND GUTTER OR EXISTING CONCRETE CURB AND GUTTER.

ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
CTR	CENTER
LD	LANE DISTRIBUTION
DIA	DIAMETER
DIM	DIMENSION
FRF	FRONT FACE
MAX	MAXIMUM
MIN	MINIMUM
NORM	NORMAL
OH	OVERHEAD POWER LINE
POL	POINT ON LINE
SPA	SPACE
SYM	SYMMETRICAL

UTILITIES

UTILITY OR MUNICIPALITY	ADDRESS	CONTACT	UTILITY TYPE
* CHARTER COMMUNICATIONS	853 MCINTOSH STREET P.O. BOX 1818 WAUSAU, WI 54402-1818 PH: (715) 302-1483 SCOTT.OLSON@CHARTERCOM.COM	SCOTT OLSON	FIBER OPTIC & COMMUNICATIONS
* CITY OF WAUSAU PUBLIC WORKS	407 GRANT STREET WAUSAU, WI 54403-4783 PH: (715) 261-6745 ALLEN.WESOLOWSKI@CI.WAUSAU.WI.US	ALLEN WESOLOWSKI	STORM SEWER, SANITARY SEWER, WATER, LIGHTING & TRAFFIC SIGNALS
* FRONTIER COMMUNICATIONS	100 COMMUNICATIONS DRIVE SUN PRAIRIE, WI 53590 PH: (608) 837-1881 ROBERT.CHURCH@FTR.COM	ROBERT CHURCH	COMMUNICATIONS
* WISCONSIN PUBLIC SERVICE CORPORATION	1700 SHERMAN STREET P.O. BOX 1166 WAUSAU, WI 54402-1166 PH: (715) 848-7317	CLAYTON VIRCKS	ELECTRIC
* WISCONSIN PUBLIC SERVICE CORPORATION	1700 SHERMAN STREET P.O. BOX 1166 WAUSAU, WI 54402-1166 PH: (715) 848-7471	MIKE BOSI	GAS
WAOW/WMOW/WYOW TV	1908 GRAND AVENUE WAUSAU, WI 54403 PH: (715) 843-9227 CELL: (715) 297-3995 RCRASS@WAOW.com	RUSSELL CRASS	FIBER OPTIC
* NET LEC, LLC	450 SECURITY BOULEVARD P.O. BOX 19079 GREEN BAY, WI 54307-9079 PH: (920) 617-7316 RICK.VINCENT@INSIGHT.COM	RICK VINCENT	COMMUNICATIONS

* MEMBER OF DIGGERS HOTLINE

DIGGERS HOTLINE
Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

RAILROAD CONTACT NAME

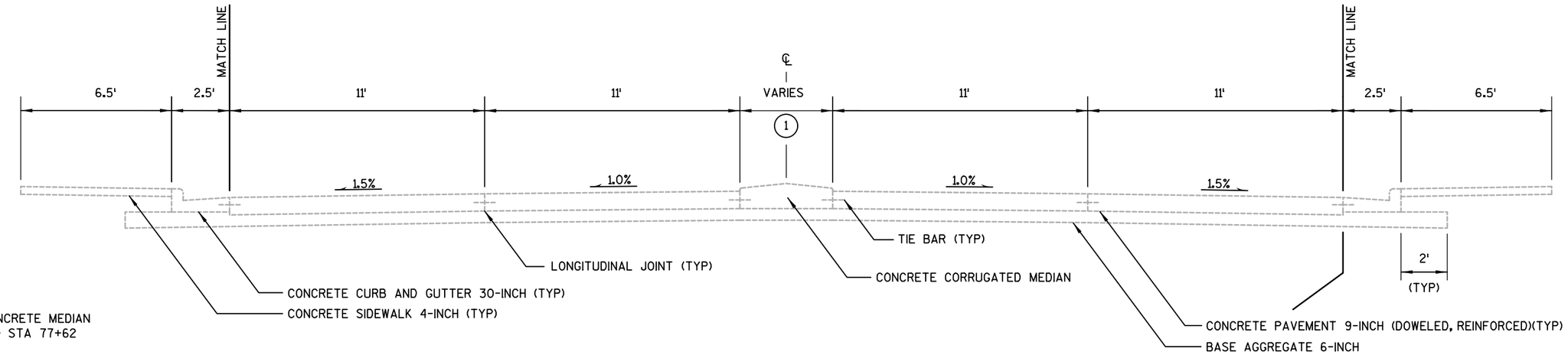
JACKIE MACEWICZ
MANAGER PUBLIC WORKS
1625 DEPOT STREET
STEVENS POINT, WI 54481
(715) 345-2503
JACKIE.MACEWICZ@CN.CA

WISDNR CONTACT

MARC HERSHFIELD
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
473 GRIFFITH DRIVE
WISCONSIN RAPIDS, WI 54494
PH: (715)-421-7867
MARC.HERSHFIELD@WISCONSIN.GOV

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PROJECT OVERVIEW	SHEET E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\020201_po.DGN PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION BUS 51

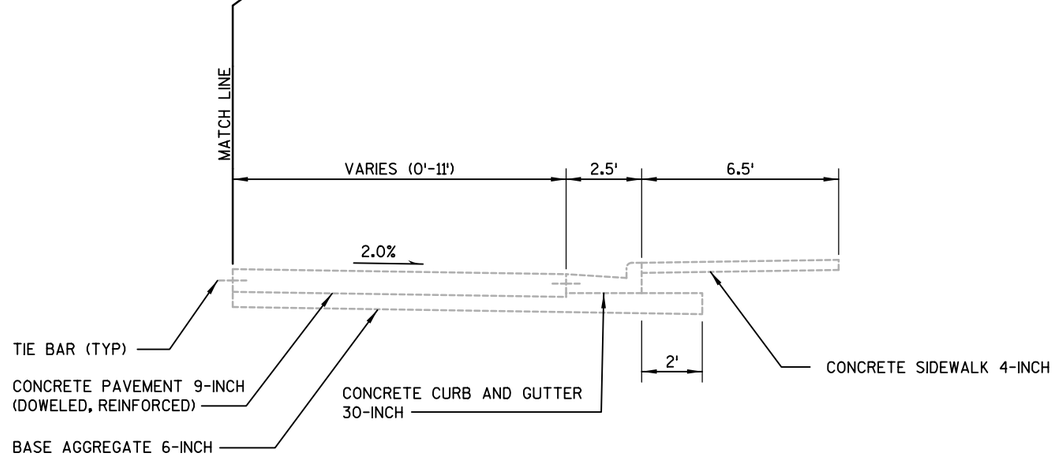
STA 14+26 - STA 96+45

(1) 2' RAISED CONCRETE MEDIAN
STA 75+77 - STA 77+62

4' RAISED CONCRETE MEDIAN
STA 14+50 - STA 17+37
STA 46+90 - STA 47+01
STA 48+04 - STA 48+10
STA 53+63 - STA 53+73
STA 54+49 - STA 54+58
STA 69+82 - STA 72+02
STA 72+95 - STA 75+77

11' TO 6' RAISED CONCRETE MEDIAN
STA 18+20 - STA 19+33

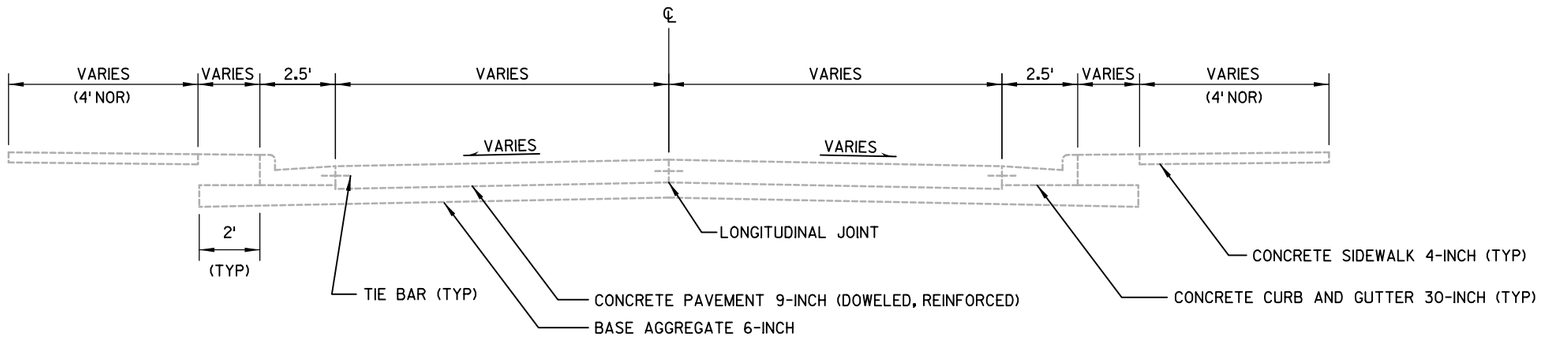
13' TO 6' RAISED CONCRETE MEDIAN
STA 56+85 - STA 57+76



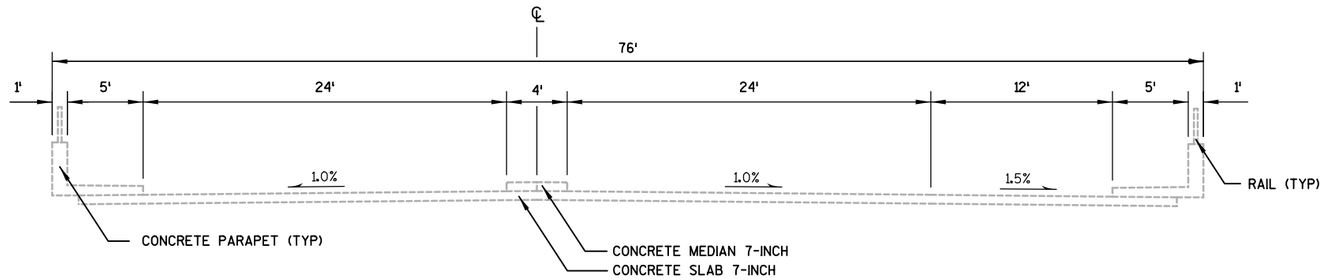
EXISTING TYPICAL SECTION BUS 51 AUXILIARY/RIGHT TURN LANE

STA 14+50 LT - STA 17+41 LT (REVERSED)
STA 47+80 LT - STA 56+08 LT (REVERSED)
STA 68+53 RT - STA 77+58 RT

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 4	E



EXISTING TYPICAL SECTION SIDE ROADS

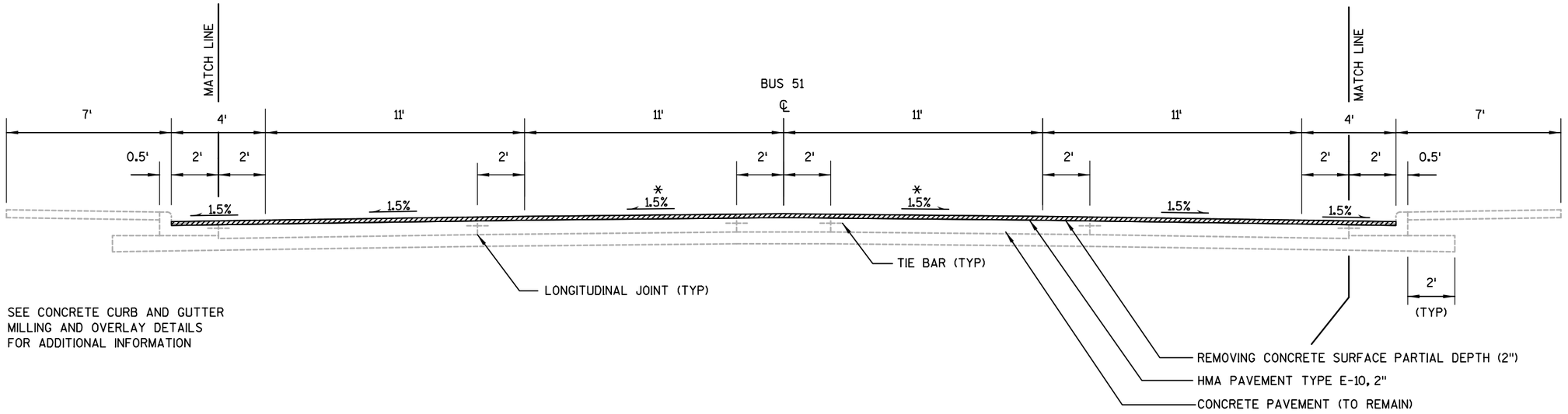


EXISTING TYPICAL SECTION
STRUCTURE B-37-100

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 5	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\020302_ts.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

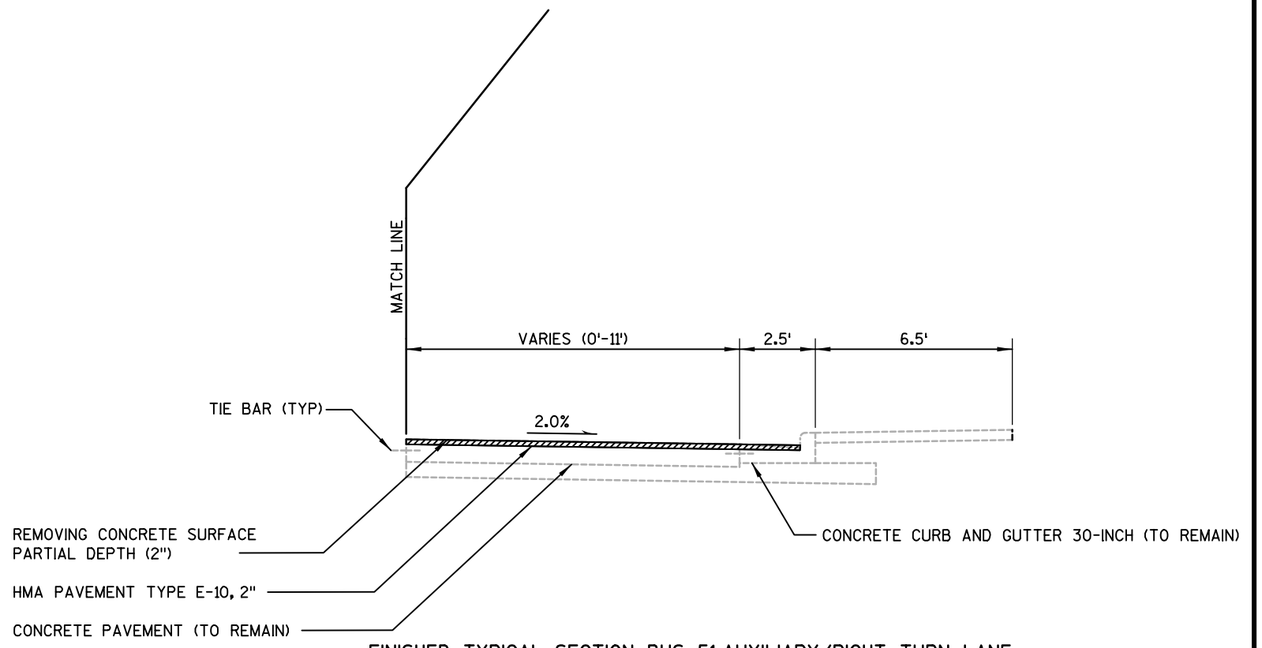


SEE CONCRETE CURB AND GUTTER MILLING AND OVERLAY DETAILS FOR ADDITIONAL INFORMATION

FINISHED TYPICAL SECTION BUS 51

STA 14+26 - STA 96+45

* SLOPE CORRECTION TO THE INSIDE TRAVEL LANE REQUIRES A VARIABLE DEPTH LAYER OF HMA PAVEMENT. SEE CONSTRUCTION DETAIL "CROSS SLOPE CORRECTION" FOR HMA PAVEMENT THICKNESSES REQUIRED.



FINISHED TYPICAL SECTION BUS 51 AUXILIARY/RIGHT TURN LANE

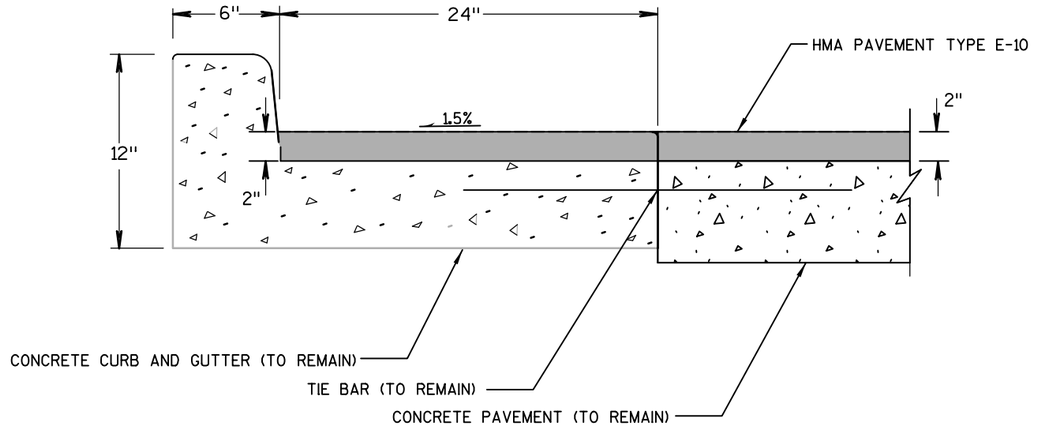
STA 15+16 LT - STA 17+41 LT (REVERSED)
STA 48+45 LT - STA 56+08 LT (REVERSED)
STA 68+53 RT - STA 77+58 RT

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET 6	E

2

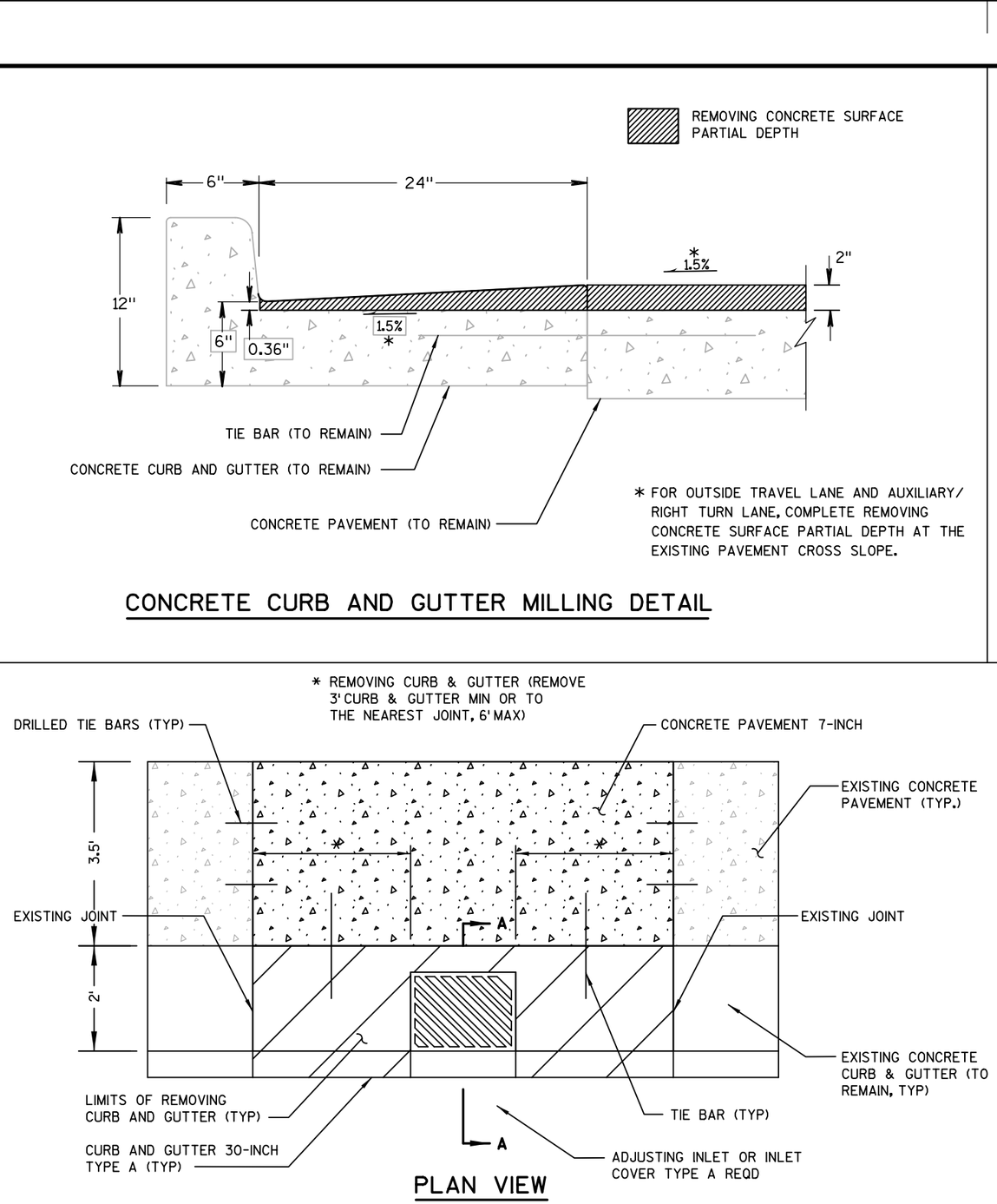
* FOR OUTSIDE TRAVEL LANE AND AUXILIARY/ RIGHT TURN LANE, COMPLETE REMOVING CONCRETE SURFACE PARTIAL DEPTH AT THE EXISTING PAVEMENT CROSS SLOPE.

CONCRETE CURB AND GUTTER MILLING DETAIL

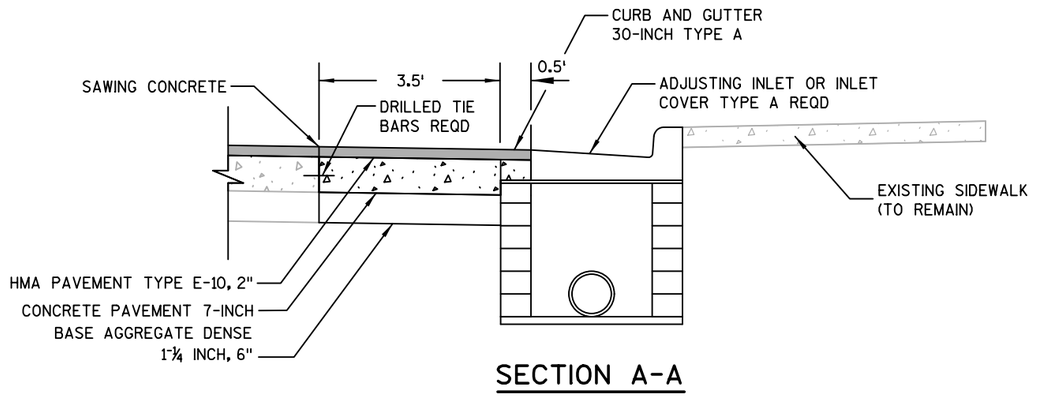


CONCRETE CURB AND GUTTER OVERLAY DETAIL

2



PLAN VIEW

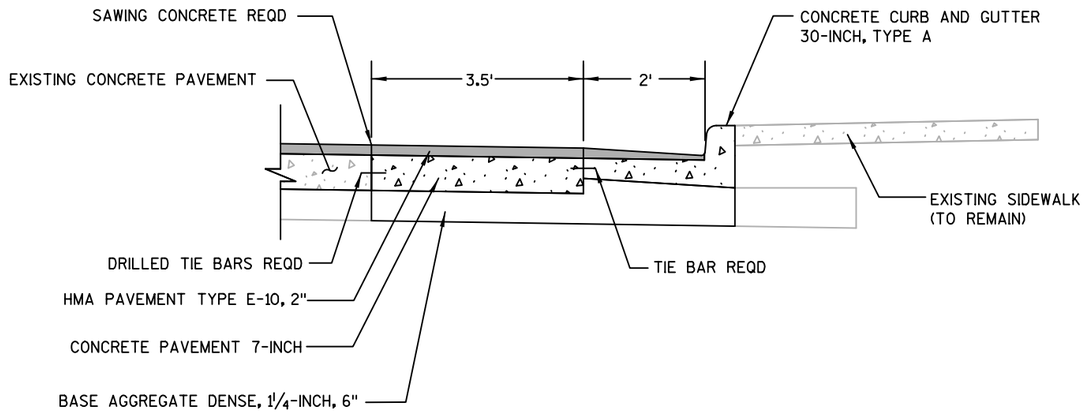


SECTION A-A

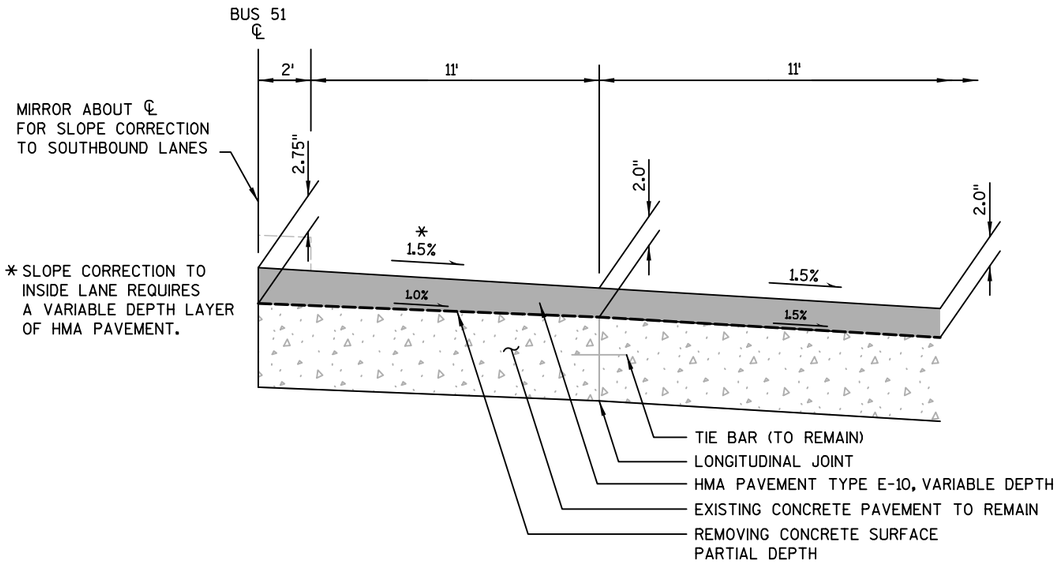
SEE SDD "CONCRETE CURB, CONCRETE CURB AND GUTTER, AND TIES" FOR LOCATION OF TIE BARS AND SDD "CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES" FOR DETAILS OF DRILLED TIE BAR INSTALLATION.

REPLACING OR ADJUSTING INLET COVERS

2

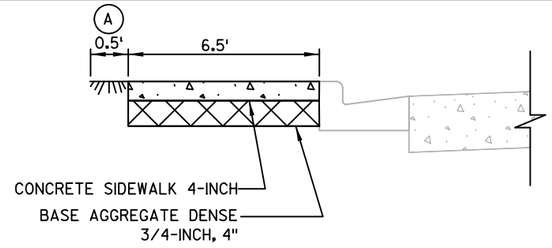


CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

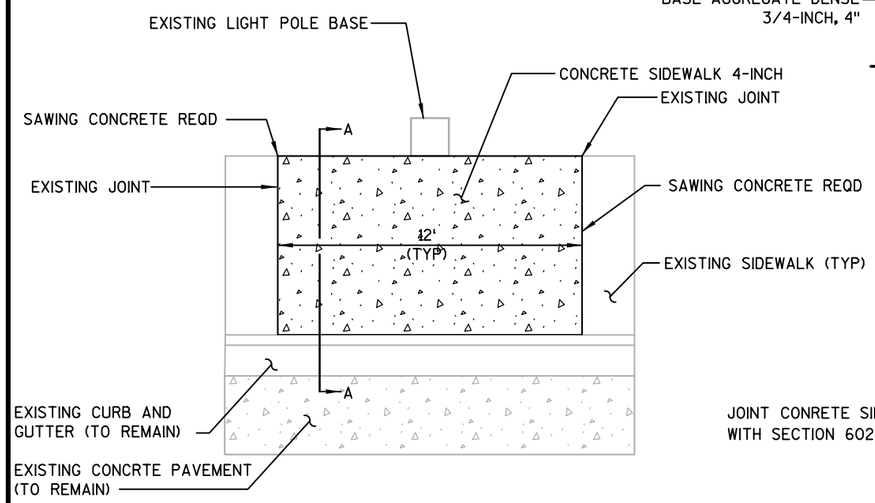


CROSS SLOPE CORRECTION

Ⓐ TOPSOIL, FERTILIZER TYPE B, SEED MIXTURE NO. 40, AND EROSION MAT URBAN CLASS I TYPE A REQD.



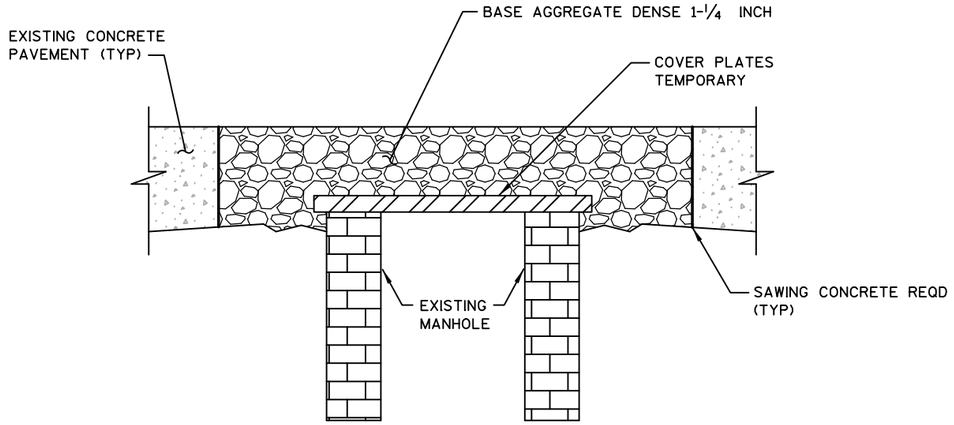
SECTION A-A



JOINT CONRETE SIDEWALK 4-INCH IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

SIDEWALK REPLACEMENT AT LIGHT POLE

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION DETAILS	SHEET 8	E



STEP 1

STEP 1 (PRIOR TO HMA OVERLAY)

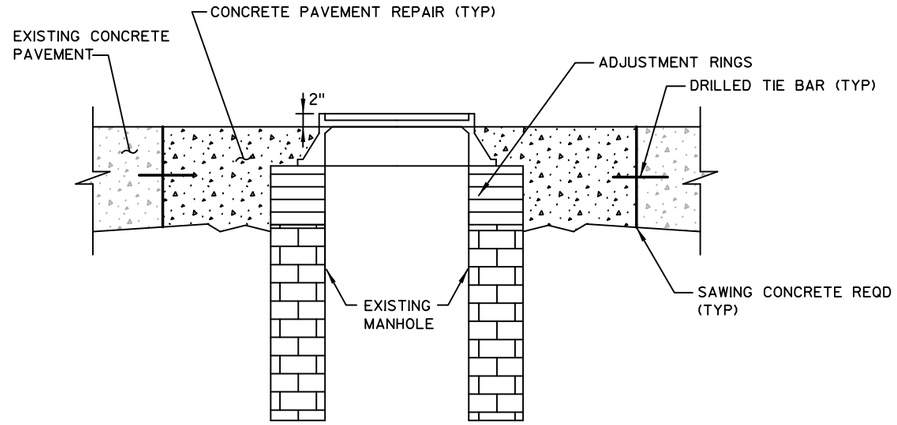
A. REMOVE BY SAWING AROUND MANHOLE AND SALVAGE MANHOLE COVER.

B. INSTALL COVER PLATES TEMPORARY.

C. BACKFILL USING BASE AGGREGATE DENSE 1-1/4 INCH.

COVER PLATES TEMPORARY

AT MANHOLES IDENTIFIED FOR ADJUSTMENT OR REPLACEMENT



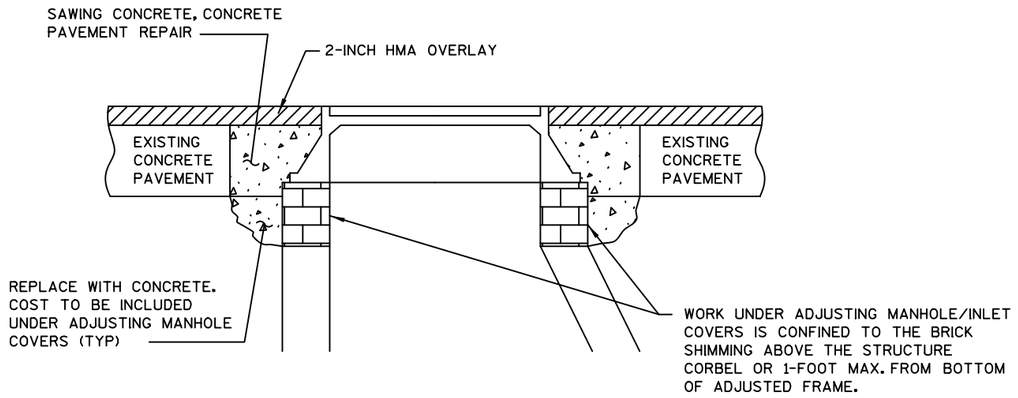
STEP 2

STEP 2

A. EXCAVATE AND REMOVE COVER PLATES TEMPORARY.

B. ADJUST MANHOLE AND REINSTALL MANHOLE CASTING TO FINISH GRADE.

C. PLACE CONCRETE PAVEMENT REPAIR TO TOP OF EXISTING CONCRETE PAVEMENT.



ADJUSTING MANHOLE DETAIL

2

N

KENT ST

ROSS AVE

E KENT ST

E ROSS AVE

BEGIN PROJECT
STA. 14+26

MATCHLINE STA. 19+00

BUS 51 (GRAND AVE)

BUS 51 (GRAND AVE)

CAUTION

CAUTION

14+00 +50 15+00 +50 16+00 +50 17+00 +50 18+00 +50 19+

1-10 (E)

1-11 (E)

1-12 (E)

1-13 (E)

1-14 (B)(D)(E)

1-15 (A)(E)

1-16 (C)(H)

1-17 (E)

1-18 (H)(C)

1-19 (E)

1-20 (A)(E)

1-21 (A)(E)

1-22 (A)(E)

CITY OF WAUSAU PUBLIC WORKS (WATER)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

WISCONSIN PUBLIC SERVICE CORPORTATION (ELECTRIC)

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

CITY OF WAUSAU (ELECTRIC)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (8-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

CITY OF WAUSAU PUBLIC WORKS (WATER)

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- [*] STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 10	E

2

2

MATCHLINE STA. 19+00

MATCHLINE STA. 25+00

BROADWAY AVE

PLEASANT ST

CEMETERY

BUS 51 (GRAND AVE)

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

CITY OF WAUSAU PUBLIC WORKS (WATER)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

2-10 (A)(E)

2-11 (H)(C)

2-12 (A)(E)

2-13 (A)(E)

2-14 (E)

2-15 (A)(E)

2-16 (B)(F)(E)

2-17 (C)(H)

2-18 (A)(E)

CITY OF WAUSAU PUBLIC WORKS (WATER)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (8-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

CAUTION

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- [*] STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 11	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\022502_ss.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 25+00

MATCHLINE STA. 31+00

WESTON AVE

BUS 51 (GRAND AVE)

CEMETERY FRONTAGE ROAD

CEMETERY

CAUTION

CAUTION

CITY OF WAUSAU
PUBLIC WORKS (LIGHTING)

3-12 Ⓐ Ⓔ

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(4-INCH STEEL)

Ⓐ Ⓔ 3-13

3-19 Ⓔ

3-18 Ⓐ Ⓔ

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)

Ⓗ Ⓒ 3-15

REMOVING MANHOLE COVERS REQ'D

Ⓖ Ⓗ 3-11

3-10 Ⓐ Ⓔ

CITY OF WAUSAU PUBLIC WORKS
(STORM SEWER)

CITY OF WAUSAU PUBLIC WORKS
(SANITARY SEWER)

Ⓗ Ⓒ 3-14

Ⓗ Ⓒ 3-16

CITY OF WAUSAU PUBLIC
WORKS (WATER)

3-17 Ⓕ Ⓔ Ⓑ

CITY OF WAUSAU
PUBLIC WORKS (LIGHTING)

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(8-INCH STEEL)

LEGEND

- Ⓐ ADJUSTING INLET COVERS
- Ⓑ REMOVING INLET COVERS
- Ⓒ ADJUSTING MANHOLE COVERS
- Ⓓ INLET COVERS TYPE A
- Ⓔ INLET PROTECTION TYPE C
- Ⓕ INLET COVERS TYPE A-S
- Ⓖ MANHOLE COVERS TYPE J-S
- Ⓗ TEMPORARY COVER PLATE
- * STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 12	E

2

N

FLEMING ST

BERNARD ST

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

CITY OF WAUSAU PUBLIC WORKS (WATER)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

Ⓐ Ⓔ 4-12

Ⓐ Ⓔ 4-11

4-13 Ⓔ

4-15 Ⓐ Ⓔ

Ⓔ 4-18

4-17 Ⓐ Ⓔ

CAUTION

MATCHLINE STA. 31+00

00 +50 32+00 +50 33+00 +50 34+00 +50 35+00 +50 36+00 +50 37+

MATCHLINE STA. 37+00

BUS 51 (GRAND AVE)

Ⓗ Ⓒ 4-10

Ⓐ Ⓔ 4-14

Ⓐ Ⓔ 4-16

CAUTION

CEMETERY FRONTAGE ROAD

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (8-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (WATER)

CEMETERY

INL

MH

SS

W

G

OH

LEGEND

- Ⓐ ADJUSTING INLET COVERS
- Ⓑ REMOVING INLET COVERS
- Ⓒ ADJUSTING MANHOLE COVERS
- Ⓓ INLET COVERS TYPE A
- Ⓔ INLET PROTECTION TYPE C
- Ⓕ INLET COVERS TYPE A-S
- Ⓖ MANHOLE COVERS TYPE J-S
- Ⓗ TEMPORARY COVER PLATE
- * STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 13	E

2

2

N

MATCHLINE STA. 37+00

MATCHLINE STA. 43+00

00 +50 38+00 +50 39+00 +50 40+00 +50 41+00 +50 42+00 +50 43+

BUS 51 (GRAND AVE)

CEMETERY

CEMETERY

FILLER CAPS

CANOPY

RUDER ST

MILLER AVE

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (WATER)

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

CITY OF WAUSAU PUBLIC WORKS (WATER)

FRONTIER COMMUNICATIONS (TELEPHONE)

Ⓐ Ⓔ 5-10

Ⓗ Ⓒ 5-14

Ⓑ Ⓓ Ⓔ 5-13

5-11 Ⓓ Ⓔ Ⓑ

Ⓐ Ⓔ 5-12

CAUTION

CEMETERY FRONTAGE ROAD

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (8-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

LEGEND

- Ⓐ ADJUSTING INLET COVERS
- Ⓑ REMOVING INLET COVERS
- Ⓒ ADJUSTING MANHOLE COVERS
- Ⓓ INLET COVERS TYPE A
- Ⓔ INLET PROTECTION TYPE C
- Ⓕ INLET COVERS TYPE A-S
- Ⓖ MANHOLE COVERS TYPE J-S
- Ⓗ TEMPORARY COVER PLATE
- ✳ STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 14	E

2

STURGEON EDDY RD

MATCHLINE STA. 43+00

MATCHLINE STA. 49+00

BUS 51 (GRAND AVE)

MCDONALD ST

FRONTIER COMMUNICATIONS (TELEPHONE)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

6-18 E

E 6-16

A E 6-15

H C 6-17

6-13 D E

CAUTION

6-10 C H

A E 6-11

A E 6-12

A E 6-14

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (8-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (WATER)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (2-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- * STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 15	E

2

2

N

MATCHLINE STA. 49+00

MATCHLINE STA. 55+00

00 +50 50+00 +50 51+00 +50 52+00 +50 53+00 +50 54+00 +50 55+00

BUS 51 (GRAND AVE)

FRONTIER COMMUNICATIONS (TELEPHONE)

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

7-11 A E

7-13 D E B

7-15 A E

7-19 D E B

H C 7-12

H C 7-17

A E 7-10

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (2-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (WATER)

A E 7-14

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

E 7-16

7-20 A E

CITY OF WAUSAU PUBLIC WORKS (WATER)

7-18 E

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

CTH N (TOWNLINE RD)

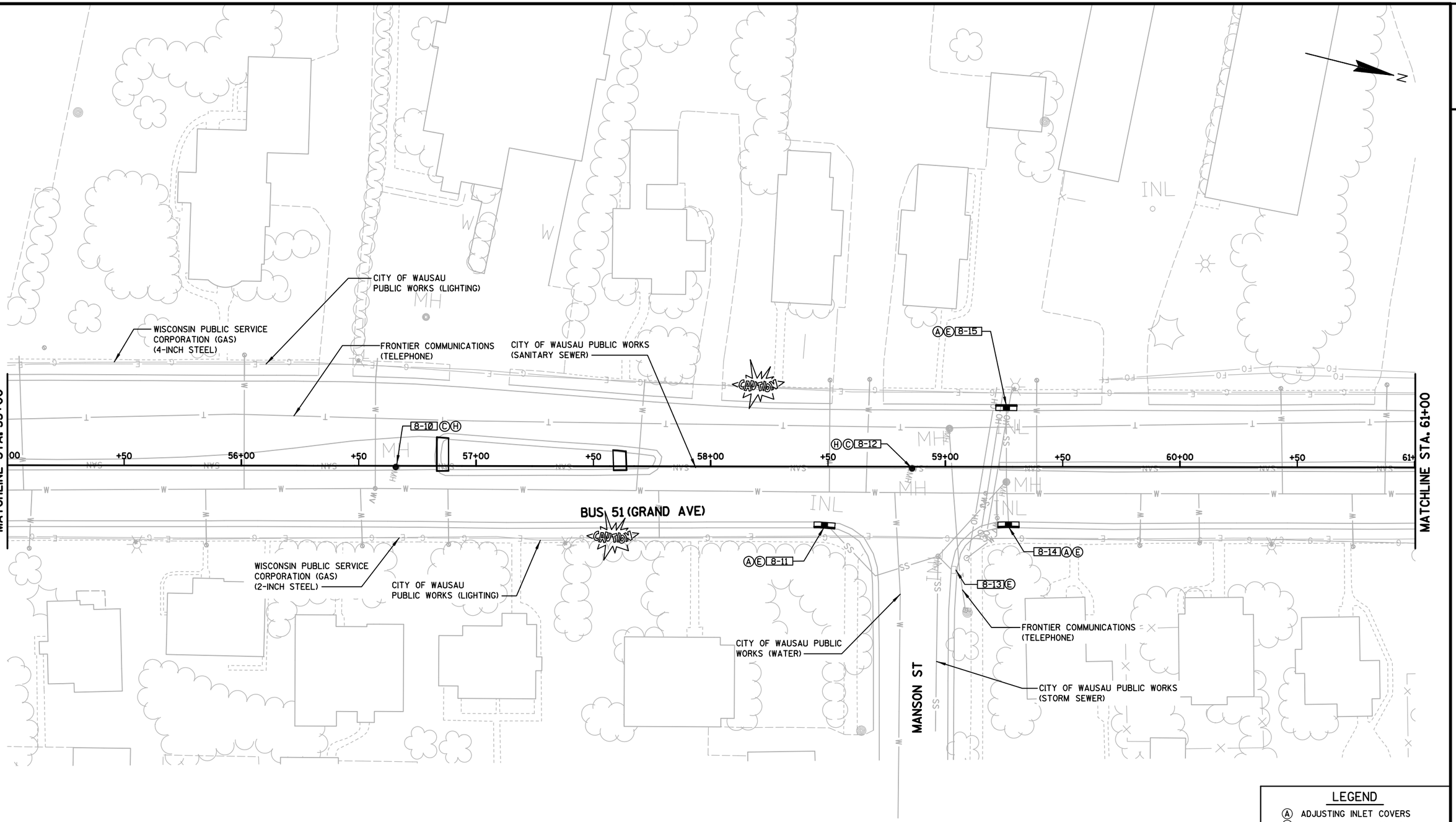
CAUTION

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- * STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 16	E

2

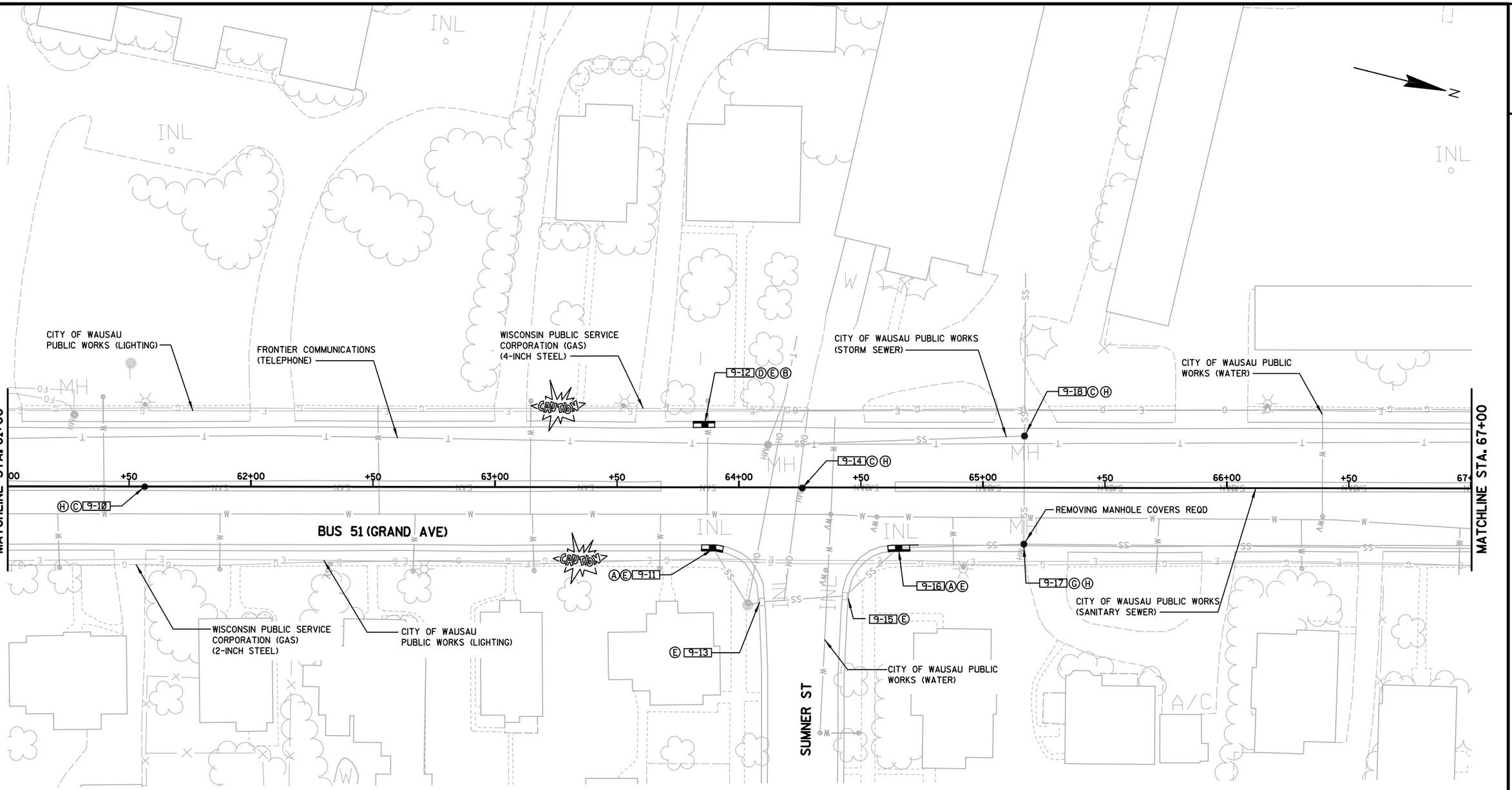


LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- [*] STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 17	E

2



LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- [*] STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 18	E

2

N

MATCHLINE STA. 67+00

MATCHLINE STA. 73+00

BUS 51 (GRAND AVE)

67+00 +50 68+00 +50 69+00 +50 70+00 +50 71+00 +50 72+00 +50 73+00

WISCONSIN PUBLIC SERVICE CORPORATION (ELECTRIC)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

FRONTIER COMMUNICATIONS (TELEPHONE)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

WISCONSIN PUBLIC SERVICE CORPORATION (ELECTRIC)

B-37-100

Ⓐ Ⓔ 10-11

Ⓐ Ⓔ 10-10

CITY OF WAUSAU PUBLIC WORKS (WATER)

10-12 Ⓒ Ⓗ

10-13 Ⓐ Ⓔ

10-14 Ⓒ Ⓗ

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (2-INCH STEEL)

CITY OF WAUSAU (ELECTRIC)

B-37-100

Ⓗ Ⓒ 10-15

CITY OF WAUSAU PUBLIC WORKS (WATER)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

SINGLE AVE

WISCONSIN CENTRAL LTD

FLORAL AVE

CAUTION

LEGEND

- Ⓐ ADJUSTING INLET COVERS
- Ⓑ REMOVING INLET COVERS
- Ⓒ ADJUSTING MANHOLE COVERS
- Ⓓ INLET COVERS TYPE A
- Ⓔ INLET PROTECTION TYPE C
- Ⓕ INLET COVERS TYPE A-S
- Ⓖ MANHOLE COVERS TYPE J-S
- Ⓗ TEMPORARY COVER PLATE
- [*] STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 19	E

2

WISCONSIN CENTRAL LTD

N

E THOMAS ST

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

FRONTIER COMMUNICATIONS (TELEPHONE)

CAUTION

CITY OF WAUSAU PUBLIC WORKS (WATER)

11-11 (A) (E)

(E) 11-13

11-14 (E)

MATCHLINE STA. 73+00

MATCHLINE STA. 79+00

73+00 +50 74+00 +50 75+00 +50 76+00 +50 77+00 +50 78+00 +50 79+00

BUS 51 (GRAND AVE)

CAUTION

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (2-INCH STEEL)

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

CITY OF WAUSAU PUBLIC WORKS (LIGHTING)

11-10 (C) (H)

(A) (E) 11-12

CITY OF WAUSAU PUBLIC WORKS (STORM SEWER)

(E) 11-15

LEUBNER ST

CITY OF WAUSAU PUBLIC WORKS (SANITARY SEWER)

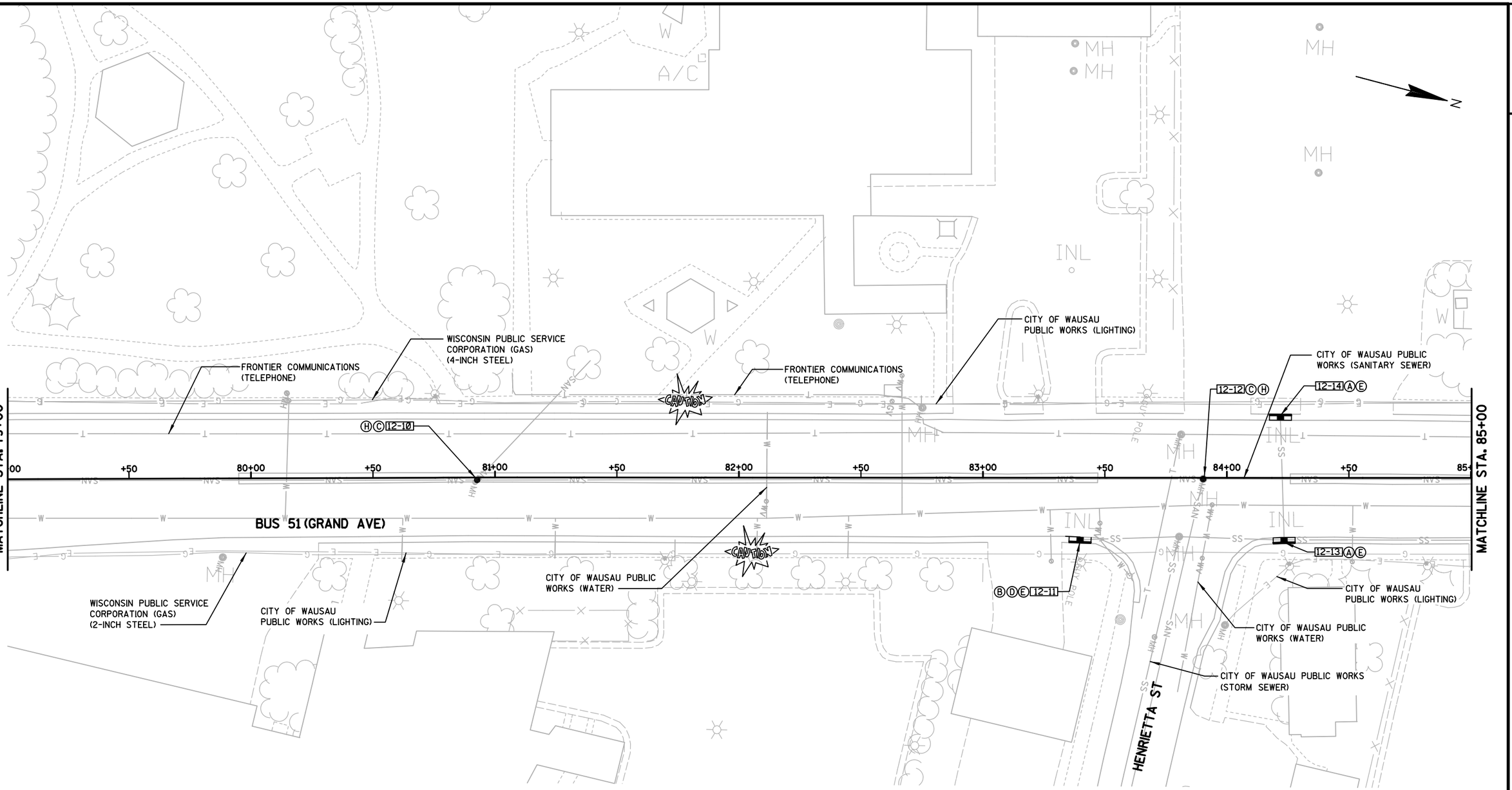
E THOMAS ST

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- * STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 20	E

2

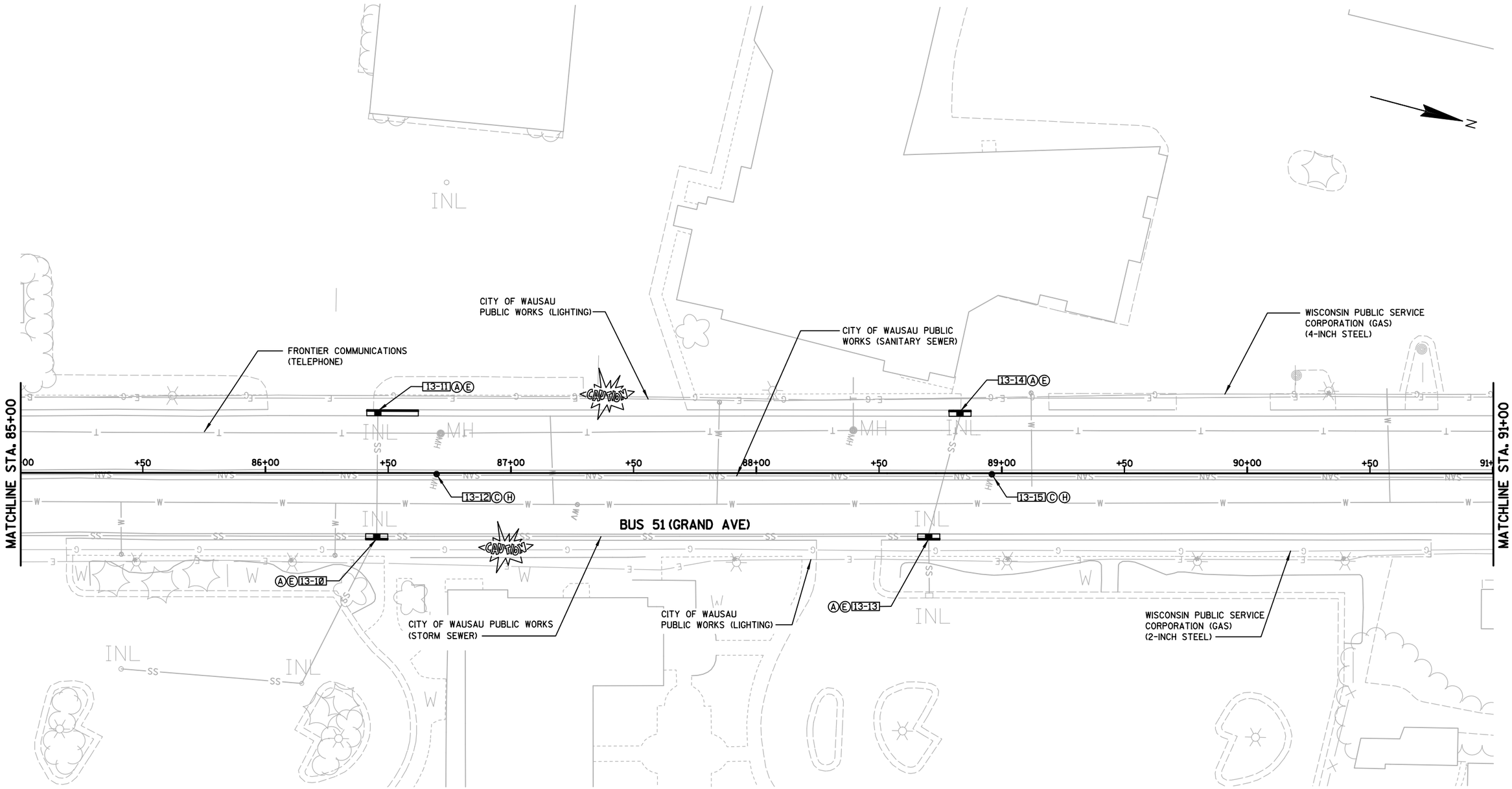


LEGEND

- Ⓐ ADJUSTING INLET COVERS
- Ⓑ REMOVING INLET COVERS
- Ⓒ ADJUSTING MANHOLE COVERS
- Ⓓ INLET COVERS TYPE A
- Ⓔ INLET PROTECTION TYPE C
- Ⓕ INLET COVERS TYPE A-S
- Ⓖ MANHOLE COVERS TYPE J-S
- Ⓗ TEMPORARY COVER PLATE
- ✱ STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 21	E

2

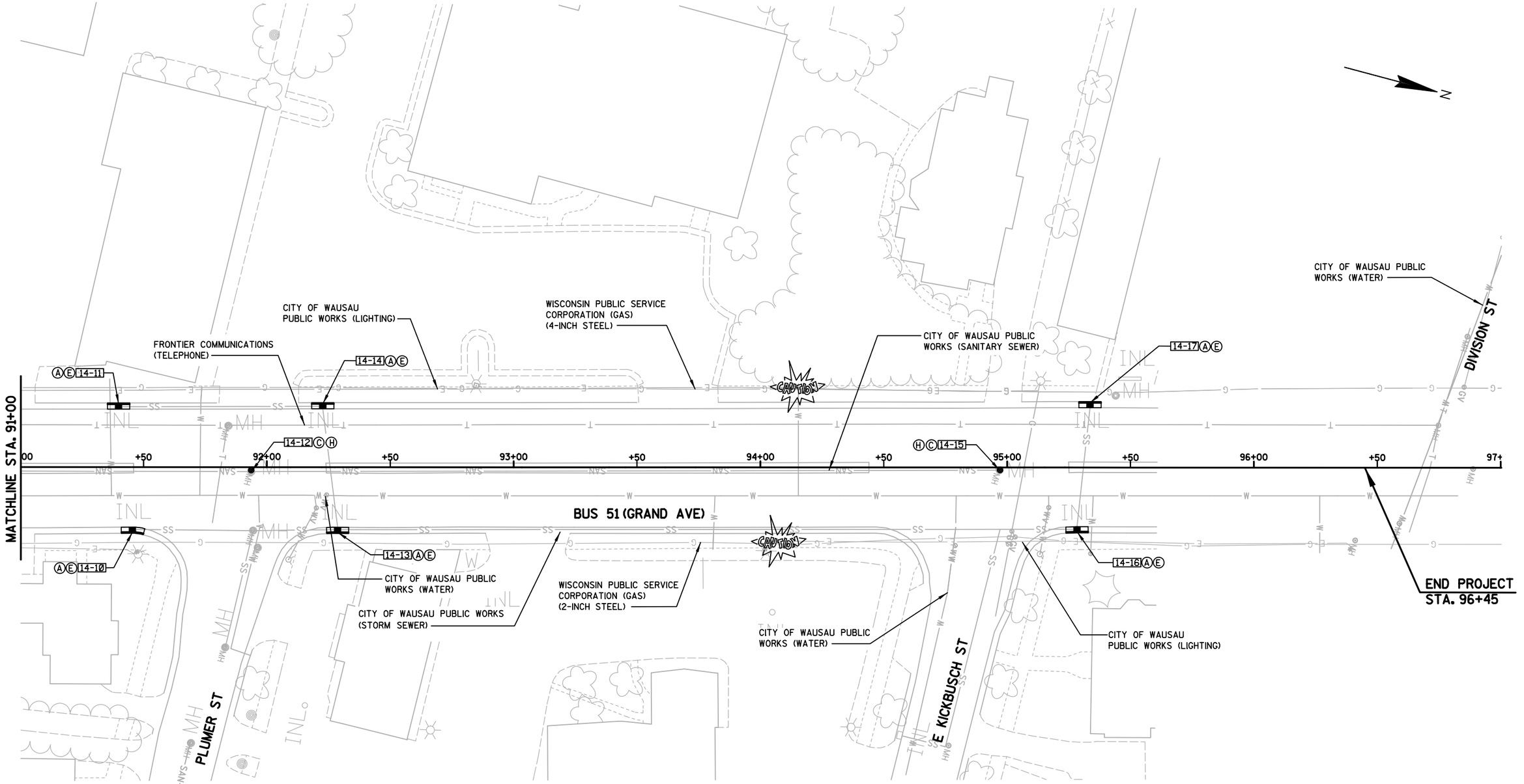


LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- [*] STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 22	E

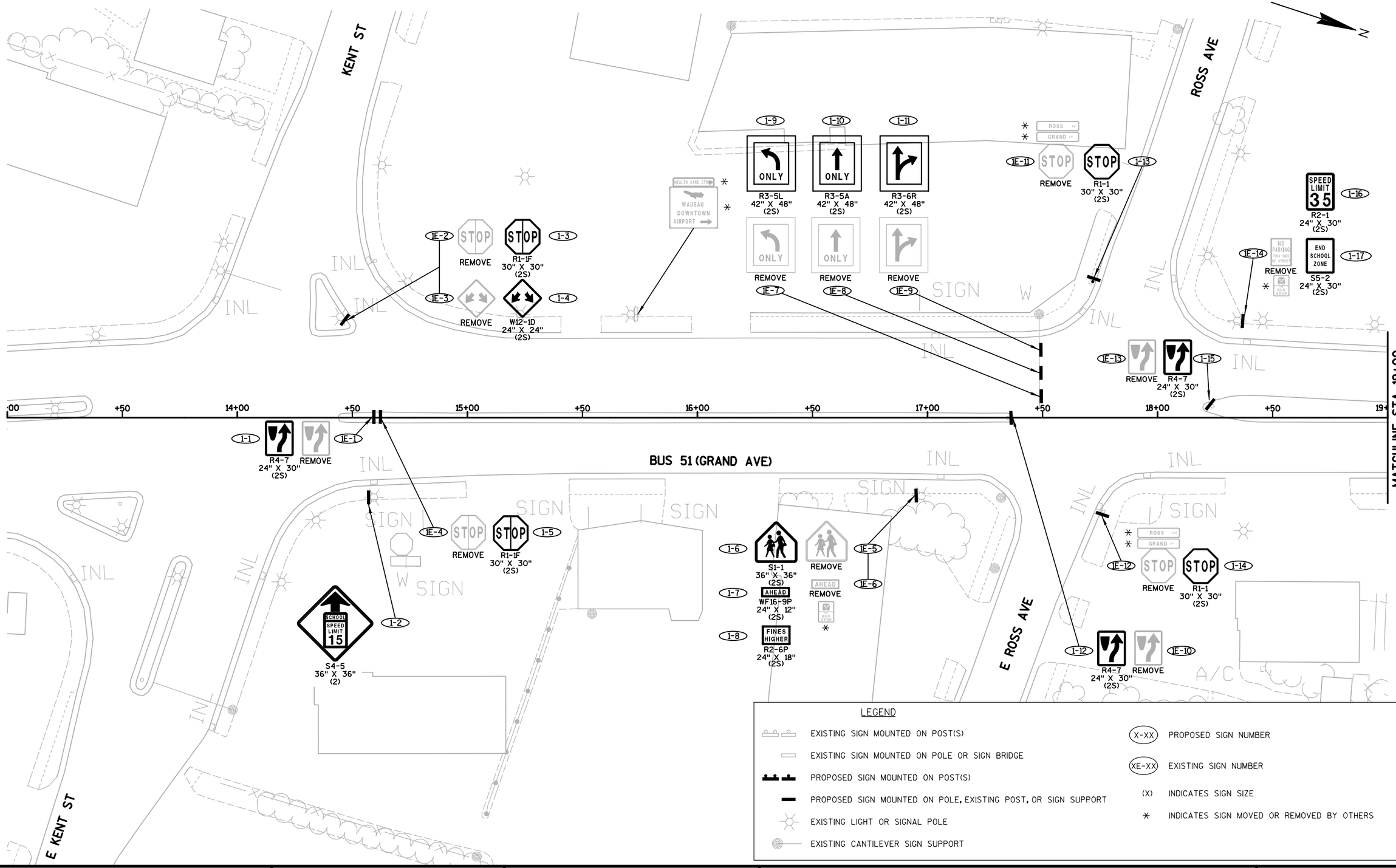
2



LEGEND

- (A) ADJUSTING INLET COVERS
- (B) REMOVING INLET COVERS
- (C) ADJUSTING MANHOLE COVERS
- (D) INLET COVERS TYPE A
- (E) INLET PROTECTION TYPE C
- (F) INLET COVERS TYPE A-S
- (G) MANHOLE COVERS TYPE J-S
- (H) TEMPORARY COVER PLATE
- [*] STRUCTURE NUMBER

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	STORM SEWER AND EROSION CONTROL	SHEET 23	E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ✳ INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 24	E

2

N

BROADWAY AVE

MATCHLINE STA. 19+00

MATCHLINE STA. 25+00

19+00 +50 20+00 +50 21+00 +50 22+00 +50 23+00 +50 24+00 +50 25

BUS 51 (GRAND AVE)

PLEASANT ST

CEMETERY

A/C

SIGN

MH

INL

2E-1 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT — REMOVE

2E-2 NO PARKING ON THIS BRIDGE OF STREET — REMOVE

2-1 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT — S4-51 24" X 48" (2S)

2-2 NO PARKING ON THIS BRIDGE — R7-53D 18" X 24" (2S)

2E-3 — REMOVE

2-3 NO PARKING ON THIS BRIDGE — R7-53D 18" X 24" (2S)

2E-4 STOP — REMOVE

2-4 R4-7 24" X 30" (2S)

2E-5 — REMOVE

2E-6 — REMOVE

2-5 STOP — R1-1 30" X 30" (2S)

2-6 S1-1 36" X 36" (2S)

2-7 WF16-7L 24" X 12" (2S)

2E-7 STOP — REMOVE

2-8 STOP — R1-1 30" X 30" (2S)

2E-8 — REMOVE

2E-9 — REMOVE

2-9 S1-1 36" X 36" (2S)

2-10 WF16-7L 24" X 12" (2S)

2E-10 NO PARKING THIS SIDE OF STREET — REMOVE

2-11 NO PARKING ON THIS BRIDGE — R7-53D 18" X 24" (2S)

2E-11 SPEED LIMIT 35 — REMOVE

2E-12 NO PARKING OR STOPPING — REMOVE

2-12 SPEED LIMIT 35 — R2-1 24" X 30" (2S)

2-13 END SCHOOL ZONE — S5-2 24" X 30" (2S)

2-14 NO STOPPING OR STANDING — R7-4D 18" X 24" (2S)

2E-13 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT — REMOVE

2-15 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT — S4-51 24" X 48" (2)

LEIGH YAWKEY WOODSON ART MUSEUM

BUS STOP

BROADWAY ST

GRAND AVE

PLEASANT ST

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 25	E

2

N

WESTON AVE

MATCHLINE STA. 25+00

MATCHLINE STA. 31+00

25+00 +50 26+00 +50 27+00 +50 28+00 +50 29+00 +50 30+00 +50 31+00

3E-2 REMOVE

3E-3 REMOVE AHEAD

3-2 S1-1 36" X 36" (2S)

3-3 AHEAD WF16-9P 24" X 12" (2S)

3-4 FINES HIGHER R2-6P 24" X 18" (2S)

3E-4 STOP REMOVE

3-5 STOP R1-1 30" X 30" (2S)

3-9 SCHOOL SPEED LIMIT 15 S4-5 36" X 36" (2)

3E-1 NORTH BUSINESS 51 REMOVE

J4-1 24" X 48"

M3-1 24" X 12" (2S)

M4-3 24" X 12" (2S)

M1-4 24" X 24" (2S)

3-1

BUS 51 (GRAND AVE)

CEMETERY FRONTAGE ROAD

3E-5 NO PARKING BUS STOP REMOVE

3-6 W11-1 30" X 30" (2S)

3-7 SHARE THE ROAD W16-1P 18" X 24" (2S)

3-8 NO PARKING ON THIS SIDE R7-53D 18" X 24" (2S)

CEMETERY

MH INL SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 26	E

2

N

FLEMING ST

BERNARD ST

FLEMING ST
GRAND AV

4E-1 STOP REMOVE

STOP R1-1 30" X 30" (2S) 4-1

4E-2 NO PARKING THIS SIDE OF STREET REMOVE

NO PARKING ON THIS SIDE R7-53D 18" X 24" (2S) 4-2

BERNARD ST
GRAND AV

4E-4 STOP REMOVE

STOP R1-1 30" X 30" (2S) 4-4

4-5 NO STOPPING OR STANDING R7-4D 18" X 24" (2S)

NO STOPPING OR STOPPING REMOVE 4E-5

BUS STOP

SIGN

INL

MH

MATCHLINE STA. 31+00

00 +50 32+00 +50 33+00 +50 34+00 +50 35+00 +50 36+00 +50 37+

MATCHLINE STA. 37+00

BUS 51 (GRAND AVE)

CEMETERY FRONTAGE ROAD

CEMETERY

4E-3 NO PARKING THIS SIDE OF STREET

NO PARKING ON THIS SIDE 4-3

REMOVE R7-53D 18" X 24" (2S)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 27	E

2

N

RUDER ST

MILLER AVE

FILLER CAPS

CANOPY

SIGN

CEMETERY

MH

INL

MILLER
GRAND

5-2 STOP STOP 5E-2
R1-1 REMOVE
30" X 30"
(2S)

5-5 STOP STOP 5E-5
R1-1 REMOVE
30" X 30"
(2S)

BUS STOP

MATCHLINE STA. 37+00

00 +50 38+00 +50 39+00 +50 40+00 +50 41+00 +50 42+00 +50 43+00

MATCHLINE STA. 43+00

BUS 51 (GRAND AVE)

CEMETERY FRONTAGE ROAD

5-1 NO STOPPING OR STANDING
R7-4D REMOVE
18" X 24"
(2S)
5E-1

5-3 SPEED LIMIT 35
R2-1 REMOVE
24" X 30"
(2S)
5E-3

5-4 NO PARKING ON THIS SIDE
R7-53D REMOVE
18" X 24"
(2S)
5E-4

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 28	E

2

MATCHLINE STA. 43+00

MATCHLINE STA. 49+00

STURGEON EDDY RD

BUS 51 (GRAND AVE)

MCDONALD ST

00 +50 44+00 +50 45+00 +50 46+00 +50 47+00 +50 48+00 +50 49+00

INL MH

6E-1 REMOVE NO RIGHT TURN
6-1 R3-1 24" X 24" (2S)
6E-2 REMOVE MCDONALD ST GRAND AV STOP
6-2 R1-1 30" X 30" (2S)
6E-3 REMOVE DO NOT ENTER
6-3 R5-1 30" X 30" (2S)
6-4 W11-1 30" X 30" (2S)
6-5 W16-1P 18" X 24" (2S) SHARE THE ROAD
6E-4 REMOVE ONE WAY
6E-5 REMOVE ONE WAY
6E-6 DOWNTOWN ART MUSEUM INDUSTRIAL PARK UWMC CAMPUS NTC CAMPUS
6E-7 REMOVE STOP HERE ON RED BUS STOP
6-6 R4-7 24" X 30" (2S)
6E-8 REMOVE NO LEFT TURN FROM GRAND AV
6-7 M3-3 24" X 12" (2S) M4-3 24" X 12" (2S) M1-4 24" X 24" (2S) SOUTH BUSINESS 51 J4-1 24" X 48"
6E-9 REMOVE SOUTH BUSINESS 51
6E-10 REMOVE STOP HERE ON RED
6E-11 REMOVE STOP HERE ON RED
6E-12 REMOVE
6-8 R10-6 24" X 36" (2S)
6-9 R10-4R 9" X 12" (2S)
6-10
6E-13 REMOVE STOP
6-11 R1-1F 30" X 30" (2S) STOP
6-12 R1-2 36" X 31" (2S) YIELD
6E-14 REMOVE YIELD STURGEON EDDY RD GRAND AV
6E-15 REMOVE YIELD
6E-16 REMOVE RIGHT LANE OBEY THIS SIGN
6-13 R1-2 36" X 31" (2S) YIELD
6-14 R1-53 24" X 30" (2S) RIGHT TURN OBEY THIS SIGN
6E-17 REMOVE
6-15 R4-7 24" X 30" (2S)
6E-18 REMOVE
6E-19 REMOVE
6-17 R4-7 24" X 30" (2S)
6E-20 REMOVE JCT COUNTY N
6-16 M2-1 21" X 15" (2S) JCT
M1-5A 24" X 24" (2S) COUNTY N
J1-1 24" X 39"

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\023206_ps.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N

MATCHLINE STA. 49+00

MATCHLINE STA. 55+00

49+00 +50 50+00 +50 51+00 +50 52+00 +50 53+00 +50 54+00 +50 55+00

BUS 51 (GRAND AVE)

CTH N (TOWNLINE RD)

D11-1 24" X 18" (2S)
7-1
7-2
M7-1 12" X 9" (2S)
7E-1 REMOVE
7E-3 REMOVE
7-5
W11-1 30" X 30" (2S)
7-6
SHARE THE ROAD W16-1P 18" X 24" (2S)
7E-9 REMOVE
7E-10 REMOVE
R4-7 24" X 30" (2S)
7-10
7-11
7E-14 REMOVE
7E-15 REMOVE
7E-16 REMOVE
7-17
M1-5A 24" X 24" (2S)
M6-1 21" X 21" (2S)
J12-1 24" X 45"
D11-1 24" X 18" (2S)
7-18
7-19
M7-1 12" X 9" (2)
7-20
R4-7 24" X 30" (2S)
7E-17 REMOVE

D9-2 24" X 24" (2S)
7E-2 REMOVE
MB 6-1 21" X 21" (2S)
7-3
7-4
M1-5A 24" X 24" (2S)
M6-6 21" X 21" (2S)
7-7
J12-1 24" X 45"
7E-4 REMOVE
7E-5 REMOVE
7-8
R1-2 36" X 31" (2S)
7E-6 REMOVE
7-9
R1-53 24" X 30" (2S)
7E-7 REMOVE
7E-8 REMOVE
D11-1 24" X 18" (2S)
7-12
7-13
M7-1 12" X 9" (2S)
7E-11
7E-12
7E-13
D9-2 24" X 24" (2S)
7-14
7-15
MB 6-1 21" X 21" (2S)
7-16
R1-1F 30" X 30" (2S)
7E-18 REMOVE
7E-19 REMOVE
R4-7 24" X 30" (2S)
7-22
R1-2 36" X 31" (2S)
7-21

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- X-XX PROPOSED SIGN NUMBER
- XE-XX EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 30	E

2

N

8-3
W1-4B
36" X 36"
(2S)

8E-3
REMOVE R7-4D
18" X 24"
(2S)
8-4

8-7
R4-7
24" X 30"
(2S)

8E-5
REMOVE

8E-7
REMOVE

8-9
M1-5A
24" X 24" (2S)
M5-1L
21" X 21" (2S)
J12-1
24" X 45"

MATCHLINE STA. 55+00

00 +50 56+00 +50 57+00 +50 58+00 +50 59+00 +50 60+00 +50 61+

MATCHLINE STA. 61+00

BUS 51 (GRAND AVE)

8-11
R4-7
24" X 30"
(2S)

8E-1
REMOVE
M3-1
24" X 12" (2S)
M4-3
24" X 12" (2S)
M1-4
24" X 24" (2S)
J4-1
24" X 48"
8-1

8E-2
REMOVE
R7-53D
18" X 24"
(2S)
8-2

8E-4
REMOVE

8-5
W11-1
30" X 30"
(2S)

8-6
W16-1P
18" X 24"
(2S)

8E-6
REMOVE

8-8
R1-1
30" X 30"
(2S)

8-10
R2-1
24" X 30"
(2S)

8E-8
REMOVE

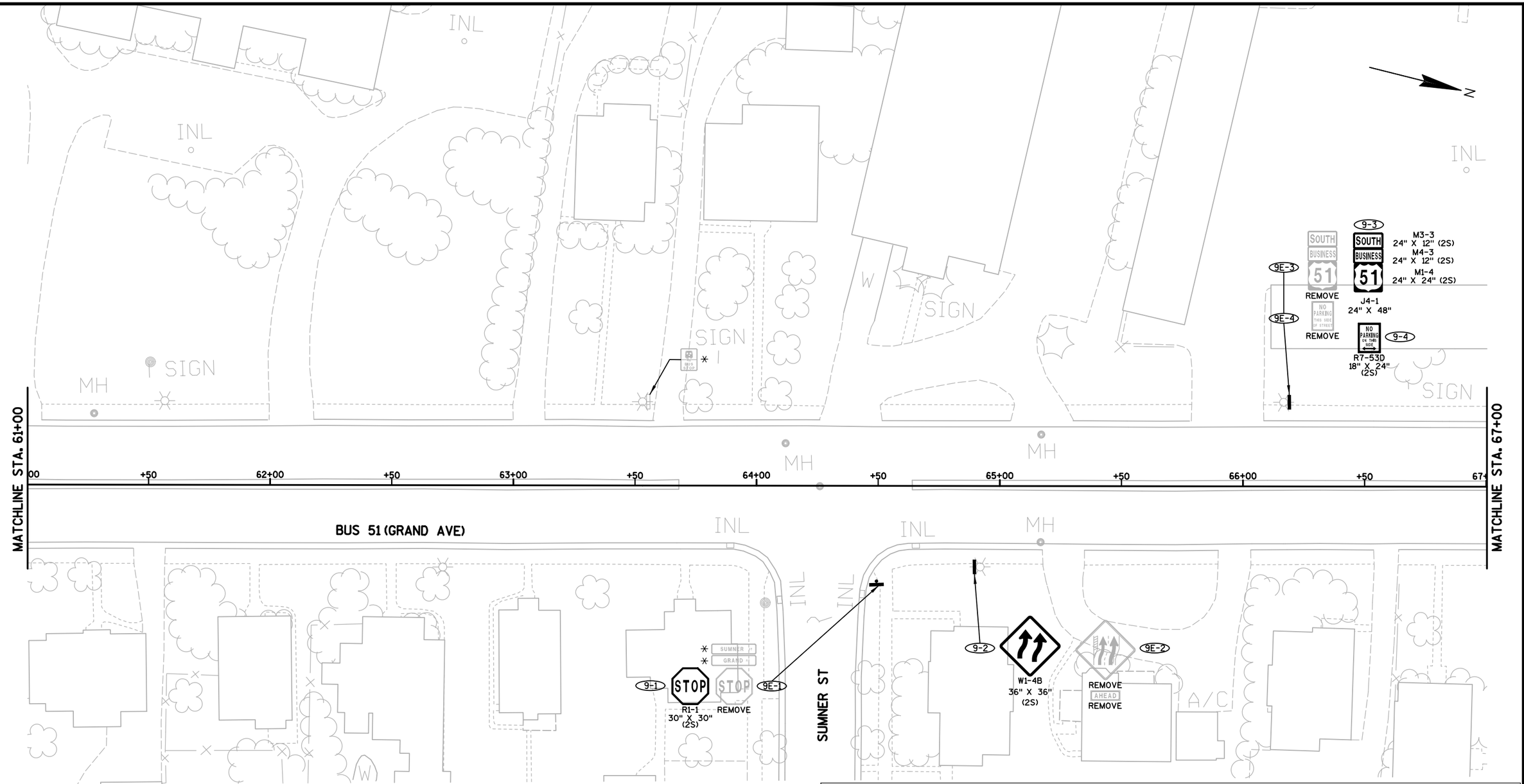
MANSON ST

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- X-XX PROPOSED SIGN NUMBER
- XE-XX EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 31	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ✳ INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 32	E

2

N

B-37-100

MATCHLINE STA. 67+00

MATCHLINE STA. 73+00

00 +50 68+00 +50 69+00 +50 70+00 +50 71+00 +50 72+00 +50 73+

BUS 51 (GRAND AVE)

SINGLE AVE

FLORAL AVE

WISCONSIN CENTRAL LTD

10E-1 REMOVE

10E-2 DEAD END REMOVE

10-1 DEAD END W14-1 30" X 30" (2S)

10E-3 SINGLE GRAND STOP REMOVE

10-2 STOP R1-1 30" X 30" (2S)

10E-4 ONLY REMOVE

10E-5 ONLY REMOVE

10E-6 REDUCED SPEED AHEAD 25 MPH REMOVE

10E-7 REMOVE

10-3 ONLY R3-5L 30" X 36" (2S)

10-4 ONLY R3-5A 30" X 36" (2S)

10-5 R3-6R 30" X 36" (2S)

10-6 SPEED LIMIT 25 W3-5 36" X 36" (2S)

10E-8 ONLY REMOVE

10E-9 FLORAL GRAND STOP REMOVE

10-7 STOP R1-1 30" X 30" (2S)

10E-10 NO PARKING THIS SIDE OF STREET

10-8 NO PARKING ON THIS SIDE REMOVE R7-53D 18" X 24" (2S)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- X-XX PROPOSED SIGN NUMBER
- XE-XX EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 33	E

2

WISCONSIN CENTRAL LTD

MATCHLINE STA. 73+00

MATCHLINE STA. 79+00

73+00 +50 74+00 +50 75+00 +50 76+00 +50 77+00 +50 78+00 +50 79+00

BUS 51 (GRAND AVE)

E THOMAS ST

LEUBNER ST

11E-1 SPEED LIMIT 35 REMOVE

11-1 SPEED LIMIT 35 R2-1 24" X 30" (2S)

11-2 NO STOPPING OR STANDING R7-4D 18" X 24" (2S)

W11-1 30" X 30" (2S)

SHARE THE ROAD W16-1P 18" X 24" (2S)

11-3

11-4

11E-2 NO PARKING OR STOPPING REMOVE

11E-3 BICYCLES MUST USE SIDEWALK REMOVE

11E-4 DOWNTOWN / ART MUSEUM / INDUSTRIAL PARK / UWMC CAMPUS / NTC CAMPUS

11E-5 DO NOT ENTER REMOVE

R5-1 30" X 30" (2S)

11-5

11E-6 STOP REMOVE

R1-1 30" X 30" (2S)

11-6

11E-7 COUNTY N REMOVE

11-7 COUNTY N J12-1 24" X 45"

M1-5A 24" X 24" (2S)

M6-1 21" X 21" (2S)

11E-8 SPEED LIMIT 25 REMOVE

SPEED LIMIT 25 R2-1 24" X 30" (2S)

11-8

11E-9 LEFT LANE MUST TURN LEFT REMOVE

11E-10 STOP REMOVE

11-9 LEFT LANE MUST TURN LEFT R3-7L 30" X 30" (2S)

11-10 STOP R1-1F 30" X 30" (2S)

11E-11 REMOVE

11E-12 REMOVE

R4-7 24" X 30" (2S)

R3-2 24" X 24" (2S)

11-12

11-13

11E-13 YIELD REMOVE

11E-14 RIGHT LANE OBEY THIS SIGN REMOVE

R1-2 36" X 31" (2S)

R1-53 24" X 30" (2S)

11-14

11-15

11E-15 STOP REMOVE

11E-16 REMOVE

11-16 BIKE ROUTE D11-1 24" X 18" (2S)

TRUCK ROUTE R14-1 24" X 18" (2S)

11-17

BIKE ROUTE REMOVE

TRUCK ROUTE REMOVE

11E-17

11E-18

11-18 STOP R1-1F 30" X 30" (2S)

W12-1D 24" X 24" (2S)

11-19

11E-19 NO TURN ON RED REMOVE

NO TURN ON RED R10-11B 24" X 24" (2S)

11-23

11E-20 COUNTY N M1-5A 24" X 24" (2S)

M6-6 21" X 21" (2S) REMOVE

COUNTY N J12-1 24" X 45"

11-25

11E-21 REMOVE

11-24

NO LEFT TURN R3-2 24" X 24" (2S)

11E-22 STOP REMOVE

STOP R1-1F 30" X 30" (2S)

11-22

11E-23 NO RIGHT TURN ON RED REMOVE

NO TURN ON RED R10-11B 24" X 24" (2S)

11-20

11E-24 STOP REMOVE

STOP R1-1F 30" X 30" (2S)

11-21

11E-25 NO PARKING SAID END OF TIMES REMOVE

11-26 W11-1 30" X 30" (2S)

11E-26 THOMAS ST GRAND ST BICYCLES MUST USE SIDEWALK REMOVE

11-27 SHARE THE ROAD W16-1P 18" X 24" (2S)

11-28 NO PARKING ON THIS SIGN R7-53D 18" X 24" (2S)

11E-27 STOP REMOVE

NO LEFT TURN

STOP R1-1F 30" X 30" (2S)

11-11

LEUBNER ST GRAND ST STOP REMOVE

STOP R1-1 30" X 30" (2S)

11-6

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- * INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\023211_ps.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA. 79+00

MATCHLINE STA. 85+00

80+00 +50 81+00 +50 82+00 +50 83+00 +50 84+00 +50

BUS 51 (GRAND AVE)

Birnamwood
Rib Mt Park
SOUTH CARE CTR

NO PARKING THIS SIDE OF STREET

NO PARKING ON THIS SIDE

12E-1 12-1

REMOVE R7-53D
18" X 24"
(2S)

12E-7

JCT
COUNTY
N

REMOVE

JCT
COUNTY
N

M2-1
21" X 15" (2S)

M1-5A
24" X 24" (2S)

J1-1
24" X 39"

12-7

12E-8

REMOVE

12-8

W11-2
30" X 30"
(2S)

12-9

W16-7L
24" X 12"

POLICE & FIRE DEPARTMENTS TURN HERE

12E-9

12E-10

SPEED LIMIT 25

12E-2

REMOVE

SPEED LIMIT 25

R2-1
24" X 30"
(2S)

12-2

12E-3

REMOVE

12-3

W11-2
30" X 30"
(2S)

AHEAD

W16-9P
24" X 8"

12-4

12E-4

12E-5

POLICE & FIRE DEPARTMENTS TURN HERE

12E-6

REMOVE

W11-2
30" X 30"
(2S)

12-5

W16-7L
24" X 12"

12-6

HENRIETTA ST

HENRIETTA ST
GRAND AV

12E-11

STOP

REMOVE

STOP

R1-1
30" X 30"
(2S)

12-10

MH INL SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT

(X-XX) PROPOSED SIGN NUMBER

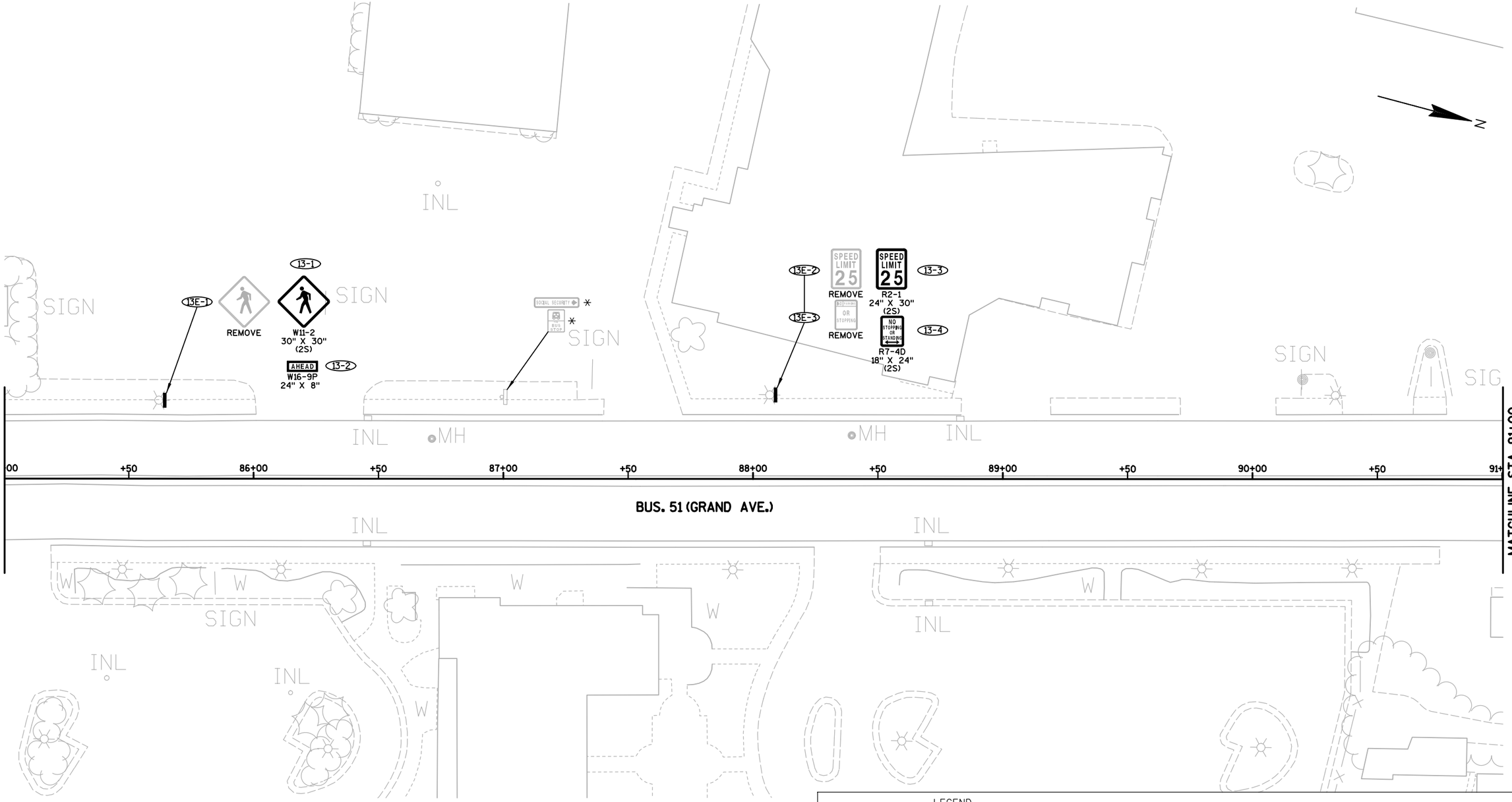
(XE-XX) EXISTING SIGN NUMBER

(X) INDICATES SIGN SIZE

⁎ INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 35	E

2

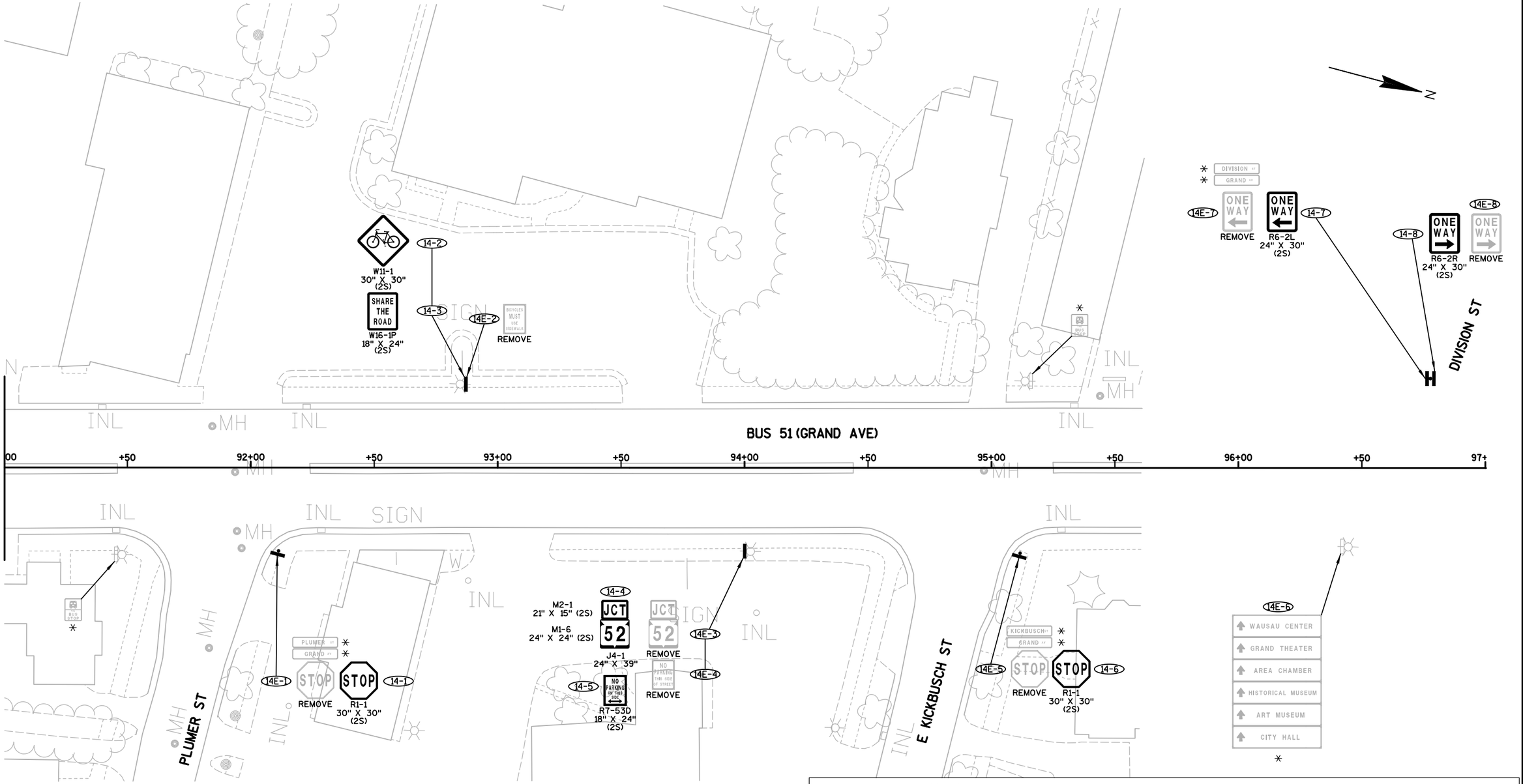


LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ✳ INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 36	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON POLE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE, EXISTING POST, OR SIGN SUPPORT
- EXISTING LIGHT OR SIGNAL POLE
- EXISTING CANTILEVER SIGN SUPPORT
- (X-XX) PROPOSED SIGN NUMBER
- (XE-XX) EXISTING SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ✳ INDICATES SIGN MOVED OR REMOVED BY OTHERS

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	SIGNING PLAN	SHEET 37	E

SEE LIGHTING DETAIL - LUMINAIRE RETROFIT (2 OF 3)

GENERAL NOTES:

1. COORDINATE INSTALLATION OF NEW FIXTURE HEADS WITH CITY OF WAUSAU PRIOR TO COMPLETING WORK.
2. REUSE EXISTING CONDUCTORS AS DESCRIBED IN THE SPECIAL PROVISIONS.

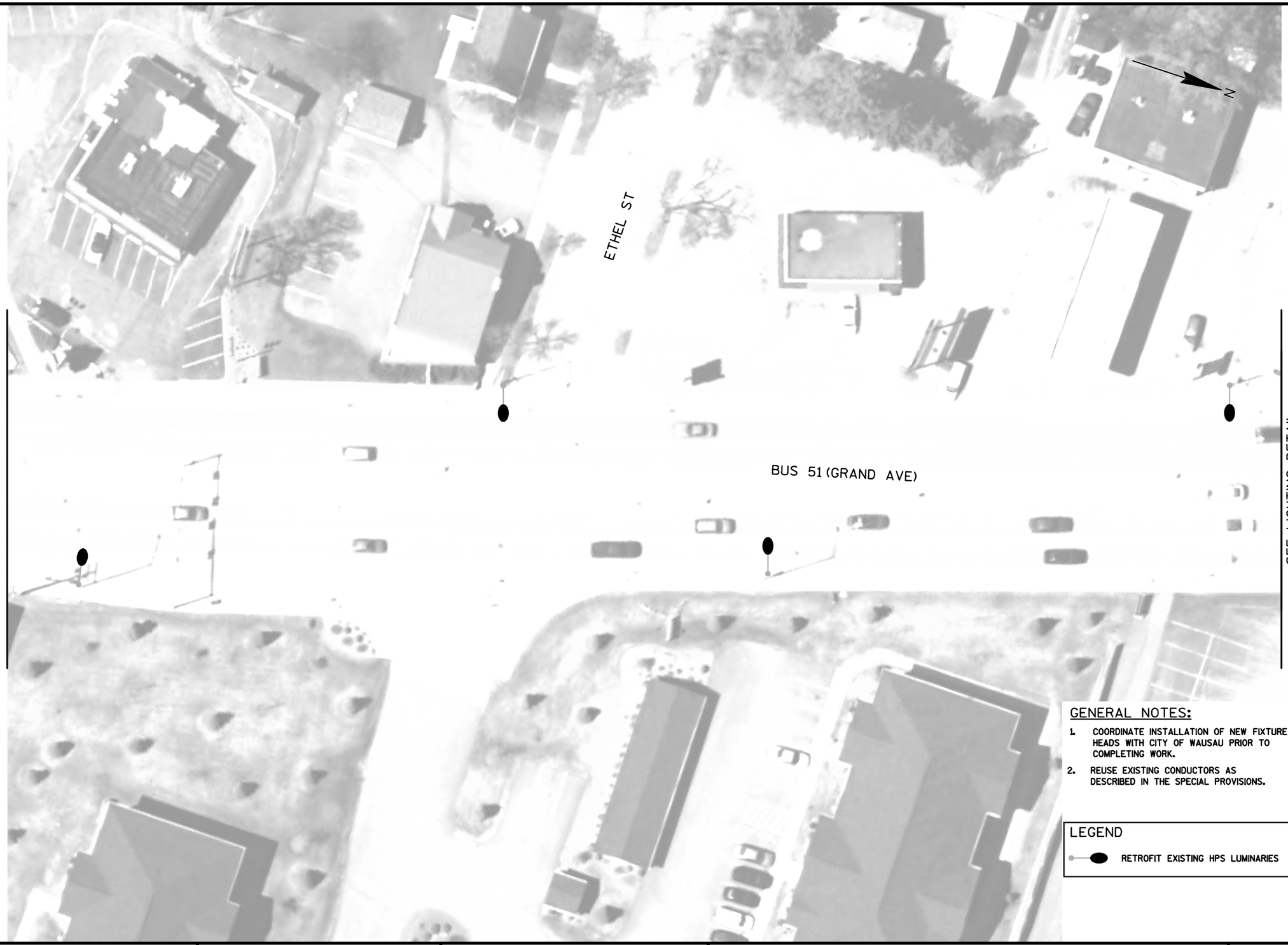
LEGEND

RETROFIT EXISTING HPS LUMINARIES

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL - LUMINAIRE RETROFIT	SHEET 38	E

2

2



SEE LIGHTING DETAIL - LUMINAIRE RETROFIT (1 OF 3)

SEE LIGHTING DETAIL - LUMINAIRE RETROFIT (3 OF 3)

GENERAL NOTES:

1. COORDINATE INSTALLATION OF NEW FIXTURE HEADS WITH CITY OF WAUSAU PRIOR TO COMPLETING WORK.
2. REUSE EXISTING CONDUCTORS AS DESCRIBED IN THE SPECIAL PROVISIONS.

LEGEND

RETROFIT EXISTING HPS LUMINARIES

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL - LUMINAIRE RETROFIT	SHEET 39	E

2

SEE LIGHTING DETAIL - LUMINAIRE RETROFIT (2 OF 3)

SEE LIGHTING DETAILS FOR NEW STREET LIGHTING NORTH OF KENT STREET

GENERAL NOTES:

1. COORDINATE INSTALLATION OF NEW FIXTURE HEADS WITH CITY OF WAUSAU PRIOR TO COMPLETING WORK.
2. REUSE EXISTING CONDUCTORS AS DESCRIBED IN THE SPECIAL PROVISIONS.

LEGEND

RETROFIT EXISTING HPS LUMINARIES

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL - LUMINAIRE RETROFIT	SHEET 40	E

2

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX'LT, — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- II-250-12-5-1,3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"

KENT ST

ROSS AVE

N

STA. 15+71, 45.11' LT
LP-1, LC-1
II-230-15-7-2,4-7
FESTOON OUTLET CRT. A2
BUMPER TYPE BASE REQ'D

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

UTILITY LINE OPENING REQ'D (FOR GAS MAIN)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (2-INCH)

PB-1

STA. 18+34, 41.25' LT
LP-3, LC-1
II-230-15-7-1,3-7
FESTOON OUTLET CRT. A2
BUMPER TYPE BASE REQ'D

CONDUIT SPECIAL, 3-INCH

PB-3

CAUTION

00 +50 14+00 +50 15+00 +50 16+00 +50 17+00 +50 18+00 +50 19+00

MATCHLINE STA. 19+00

BUS 51 (GRAND AVE)

BUS 51 (GRAND AVE)

CONDUIT SPECIAL, 3-INCH

PB-2

PB-4

STA. 16+97, 33.05' RT
LP-2, LC-1
II-230-15-7-14,16-7
FESTOON OUTLET CRT. B2

UTILITY LINE OPENING REQ'D (FOR GAS MAIN)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (8-INCH STEEL)

E. KENT ST

E ROSS AVE

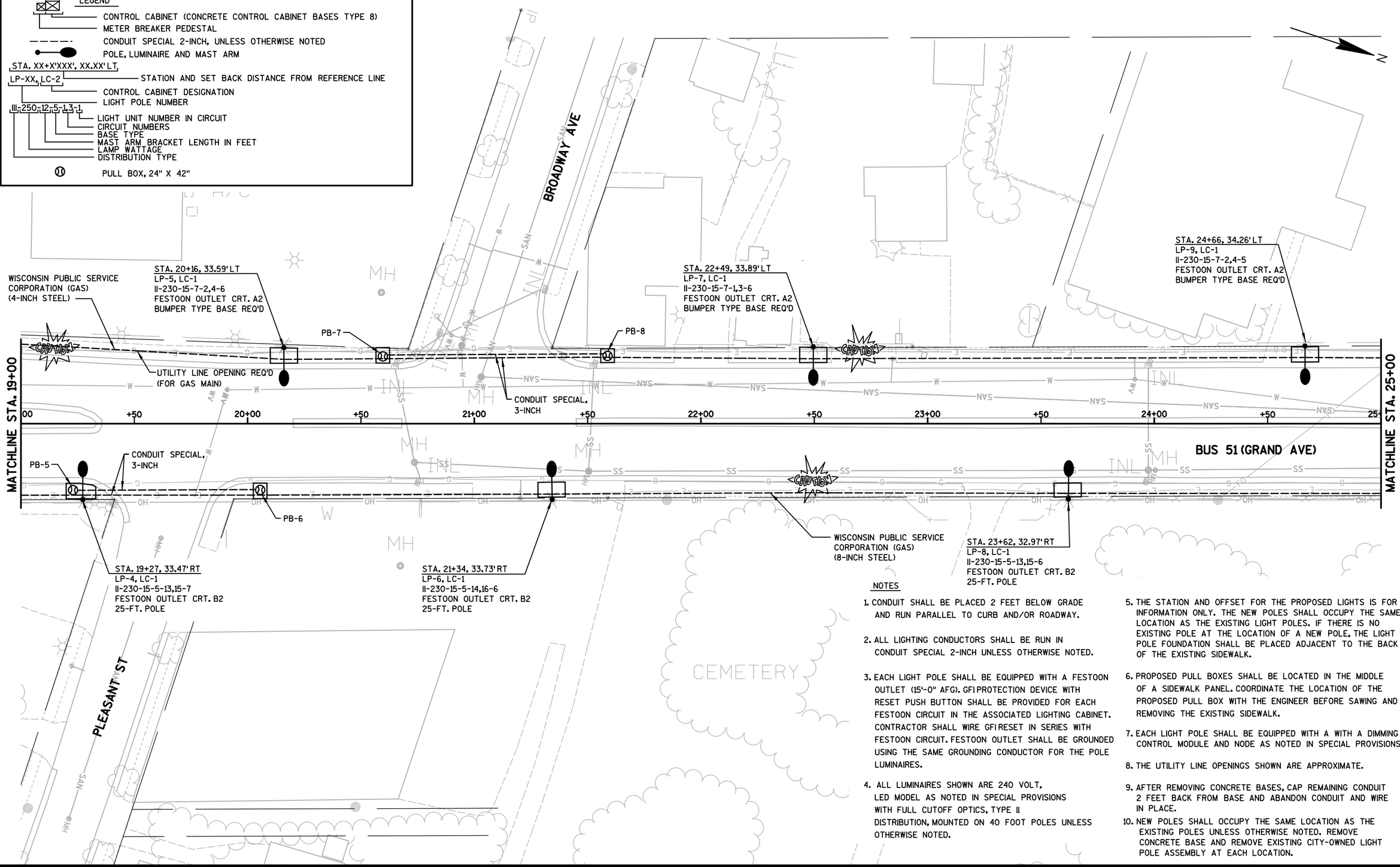
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 41	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- III-250-12-5-4,3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



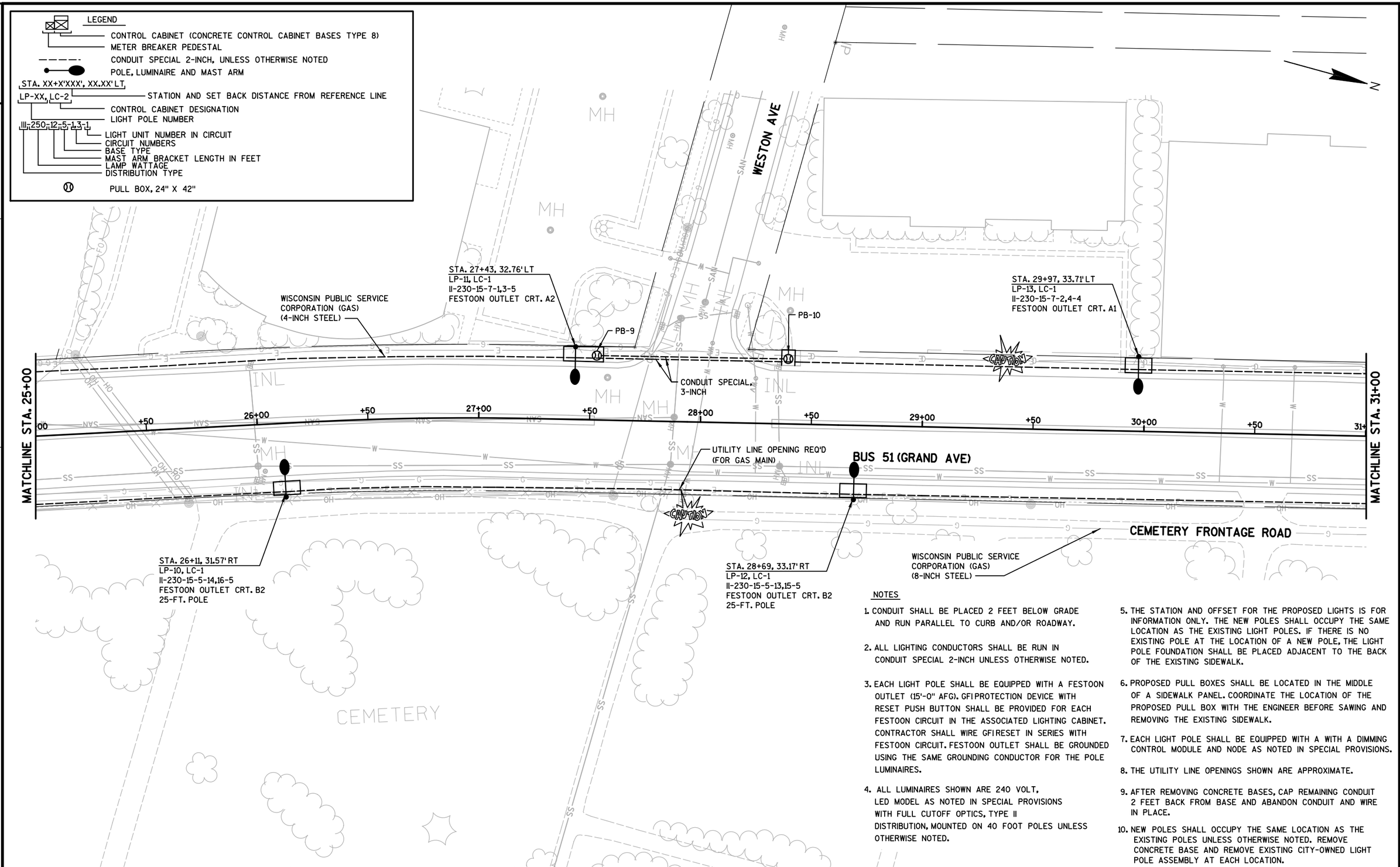
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 42	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- II, 250, 12, 5, 1, 3, 1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"

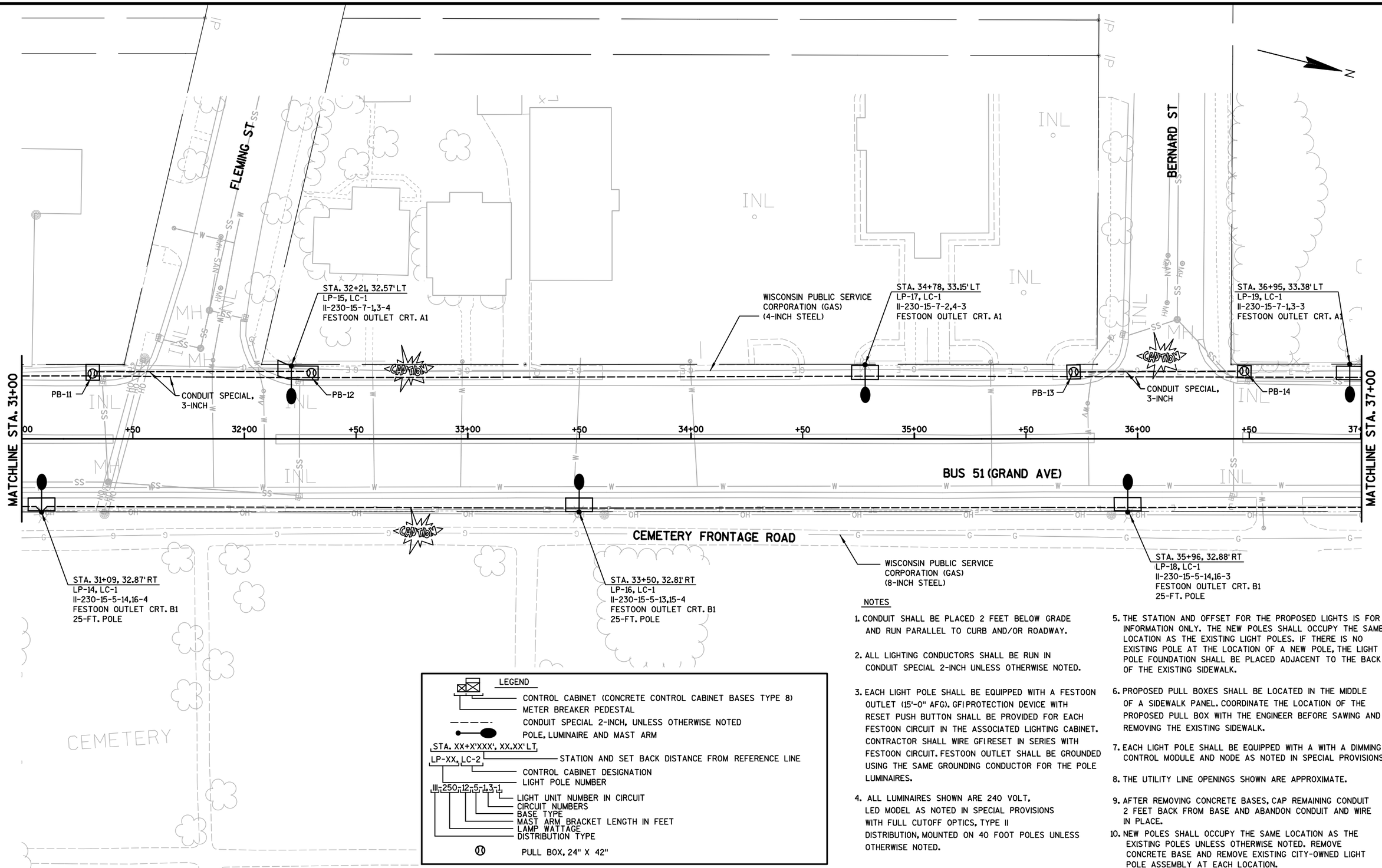


NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 43	E

2



LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- III-250-12-5-1,3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"

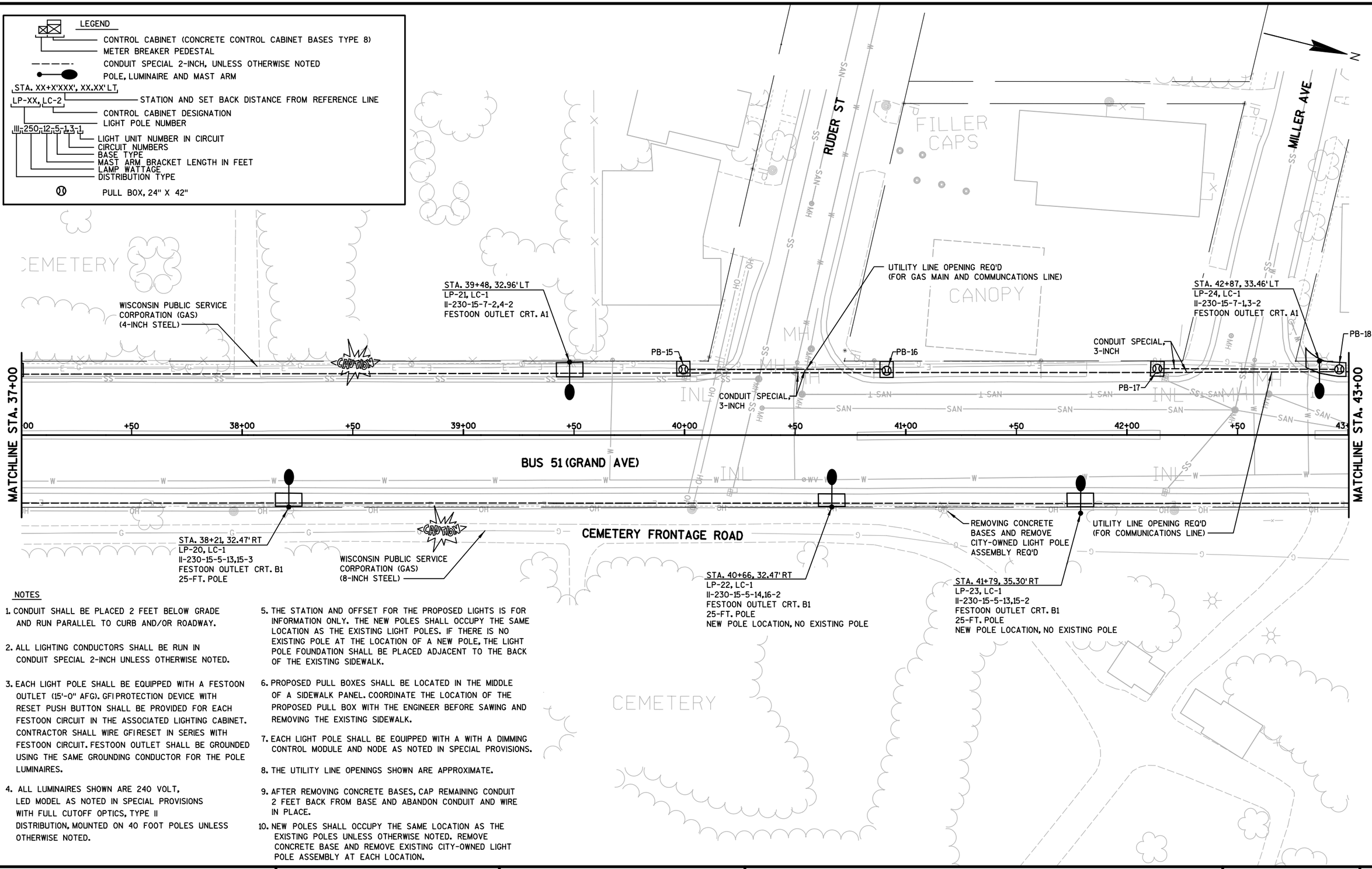
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 44	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- III-250-12-5-1,3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



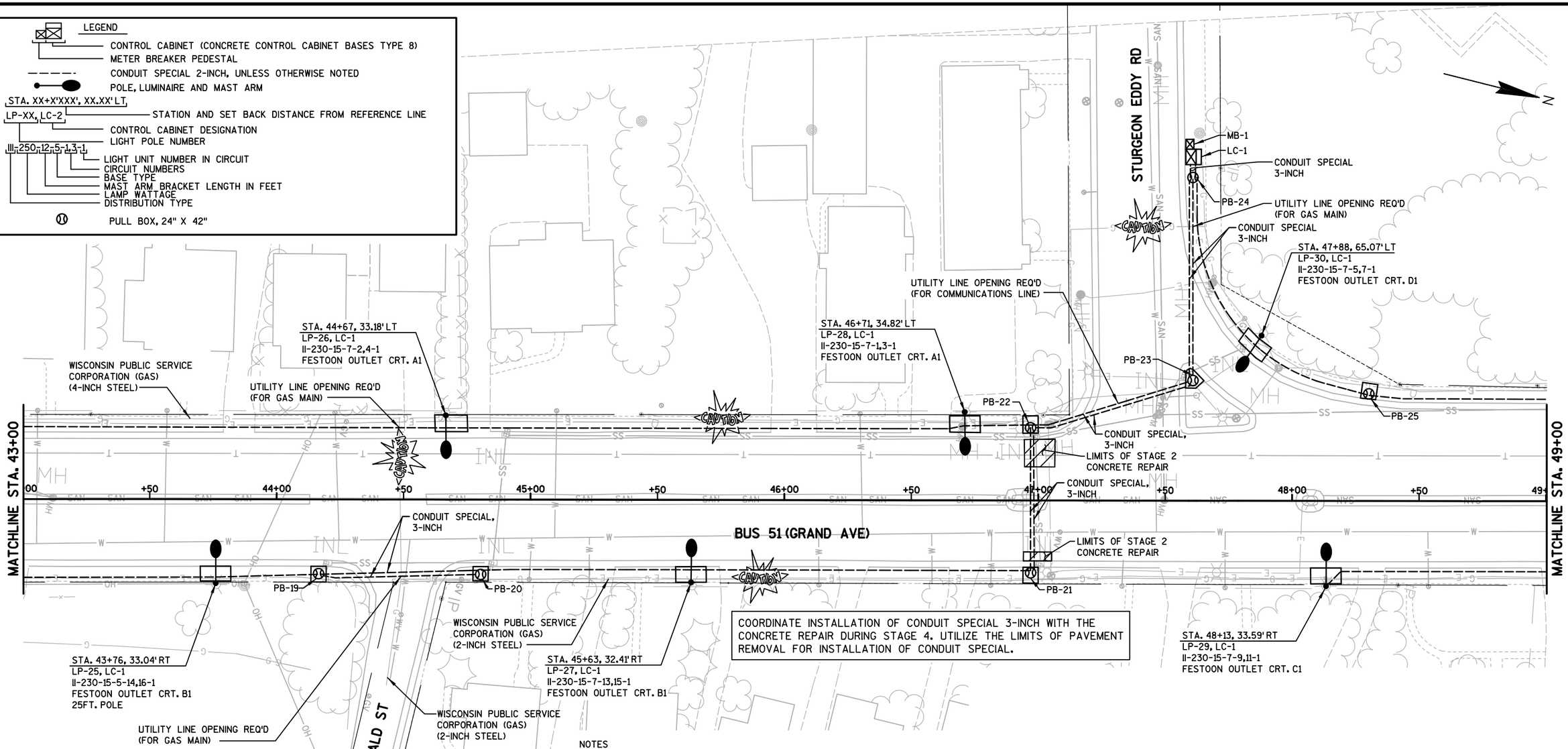
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 45	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT, LP-XX, LC-2 — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- CONTROL CABINET DESIGNATION
- LIGHT POLE NUMBER
- III-250-12-5-1,3-1
  - LIGHT UNIT NUMBER IN CIRCUIT
  - CIRCUIT NUMBERS
  - BASE TYPE
  - MAST ARM BRACKET LENGTH IN FEET
  - LAMP WATTAGE
  - DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



COORDINATE INSTALLATION OF CONDUIT SPECIAL 3-INCH WITH THE CONCRETE REPAIR DURING STAGE 4. UTILIZE THE LIMITS OF PAVEMENT REMOVAL FOR INSTALLATION OF CONDUIT SPECIAL.

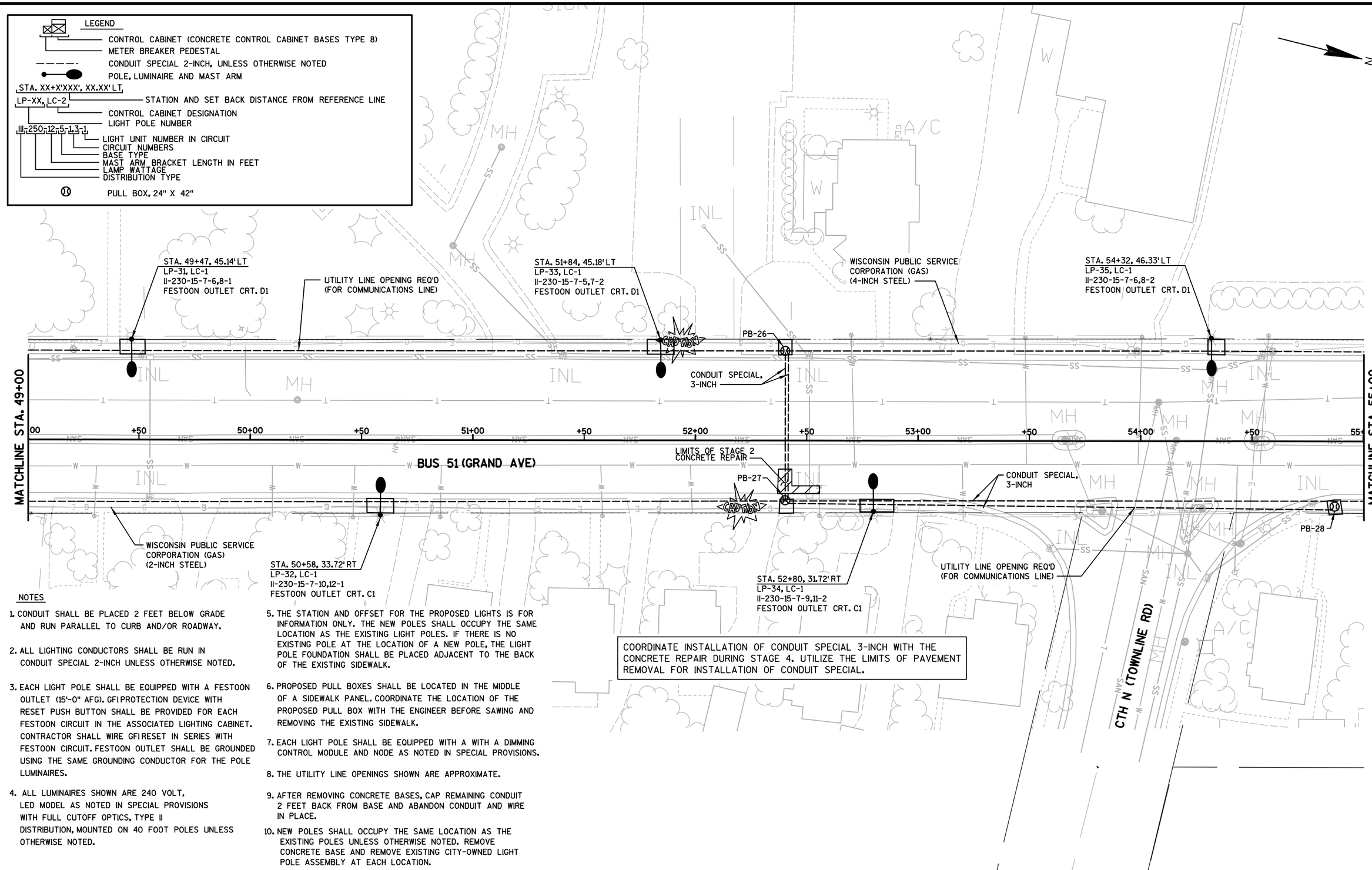
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. COORDINATE WITH UTILITY COMPANY TO PROVIDE NEW 120/240V, 200A, SINGLE PHASE ELECTRICAL SERVICE TO LC-1. METER BREAKER PEDESTAL SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS.
12. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 46	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION, LIGHT POLE NUMBER
- III-250-12-5-1,3-1 — LIGHT UNIT NUMBER IN CIRCUIT, CIRCUIT NUMBERS, BASE TYPE, MAST ARM BRACKET LENGTH IN FEET, LAMP WATTAGE, DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



COORDINATE INSTALLATION OF CONDUIT SPECIAL 3-INCH WITH THE CONCRETE REPAIR DURING STAGE 4. UTILIZE THE LIMITS OF PAVEMENT REMOVAL FOR INSTALLATION OF CONDUIT SPECIAL.

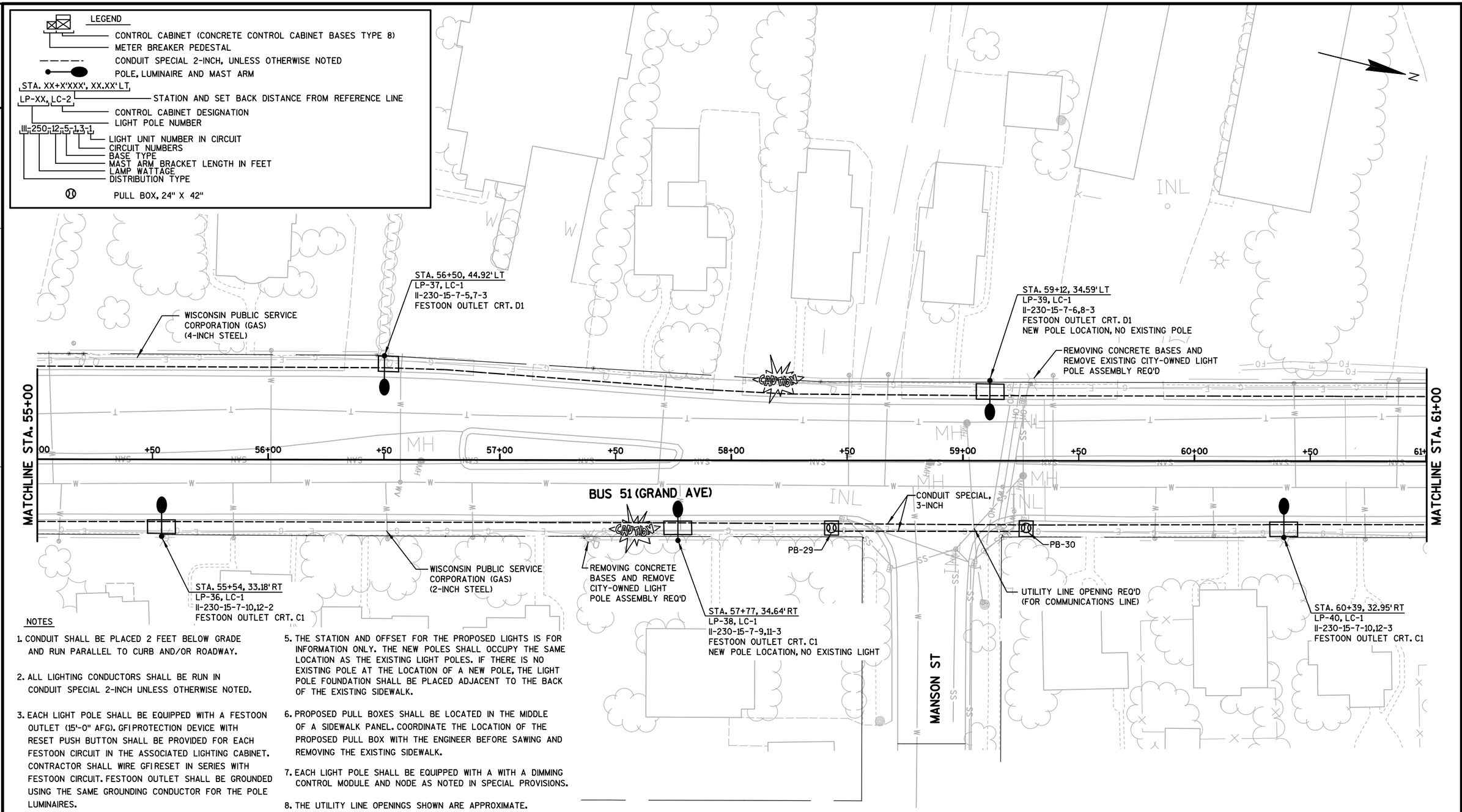
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 47	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX'LT, — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- 250-12-5-13-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



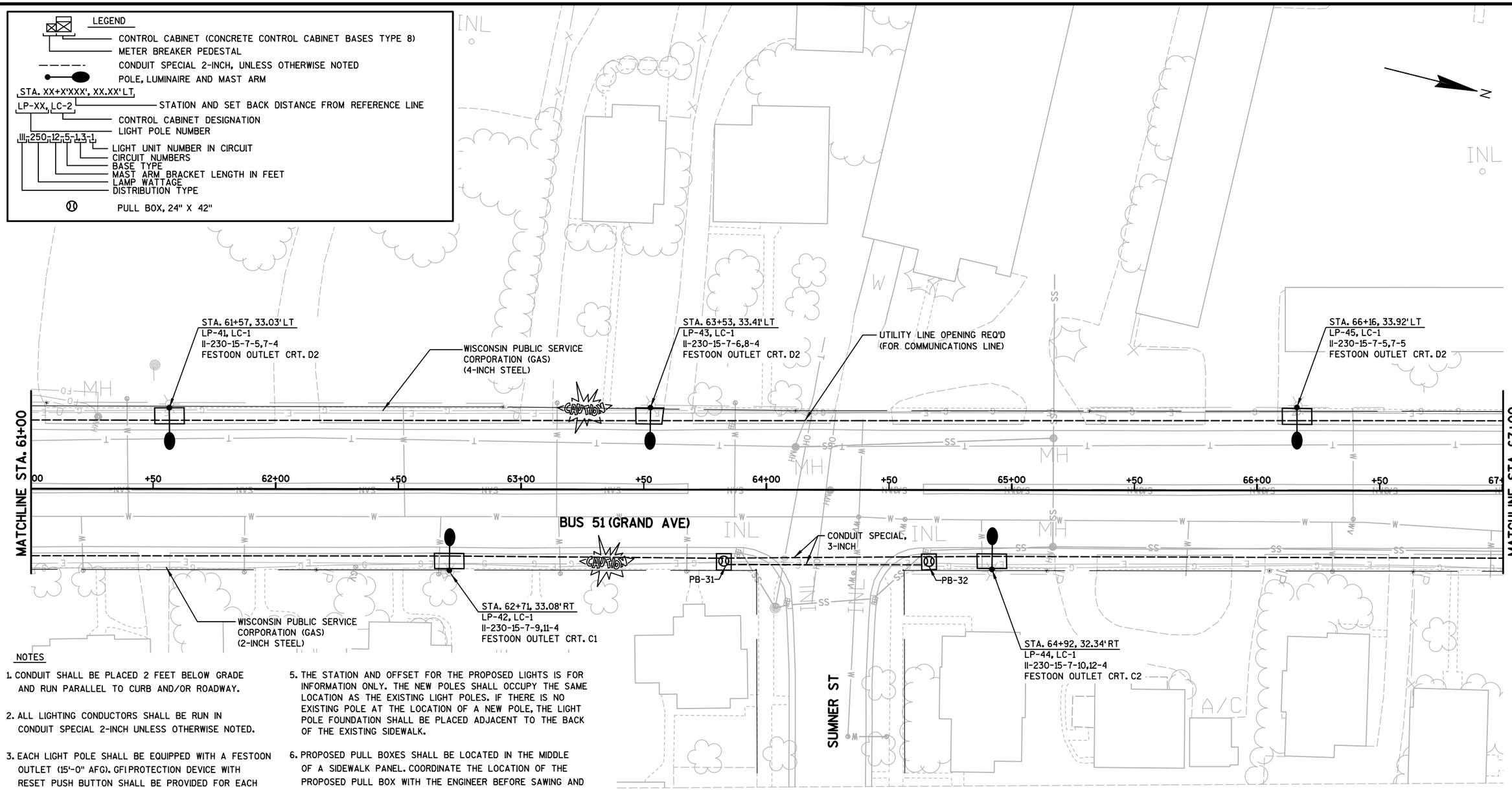
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 48	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX'LT — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- III 250 12 5 1 3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



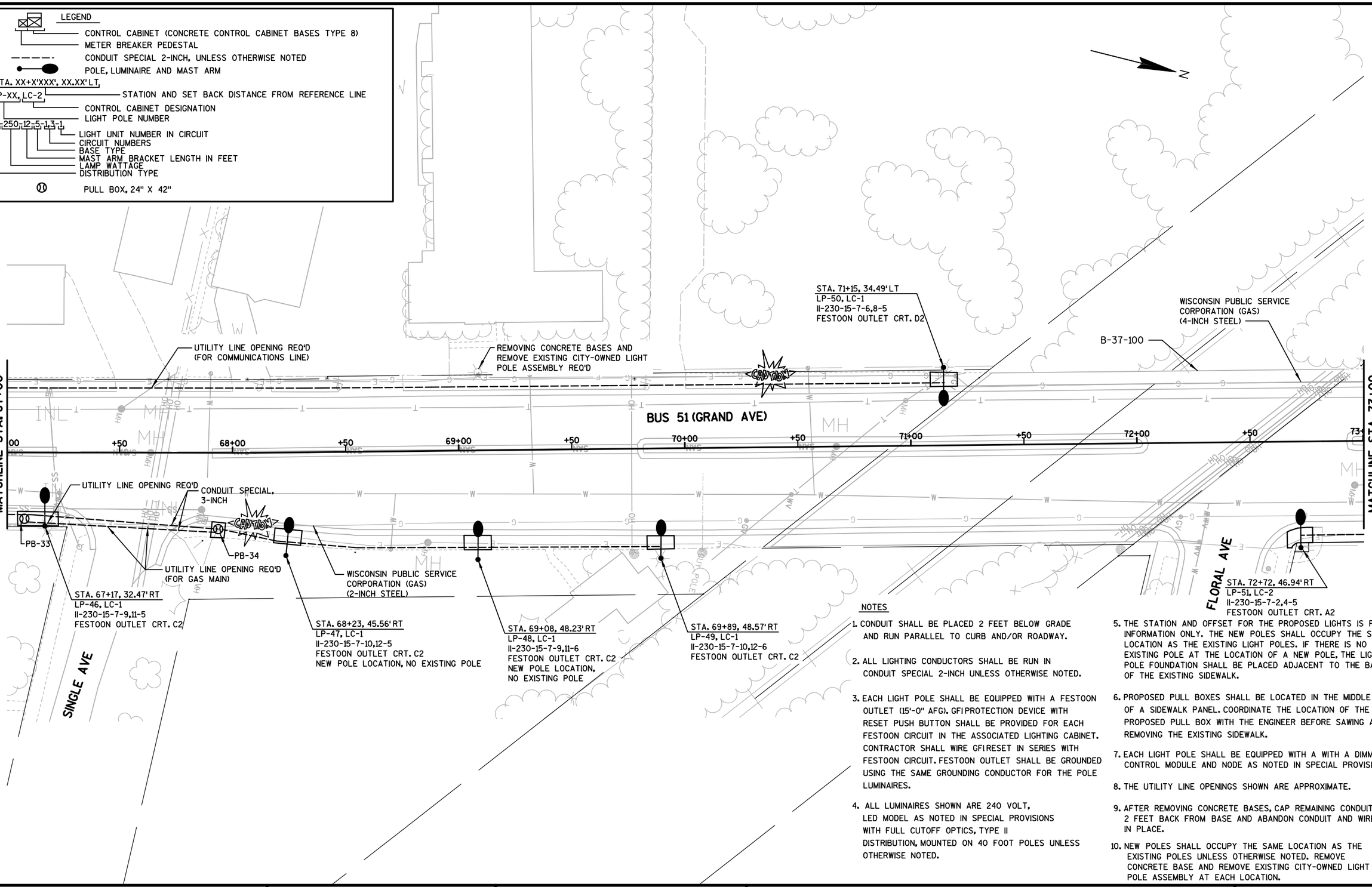
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 49	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT, — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- II-250-12-5-1.3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



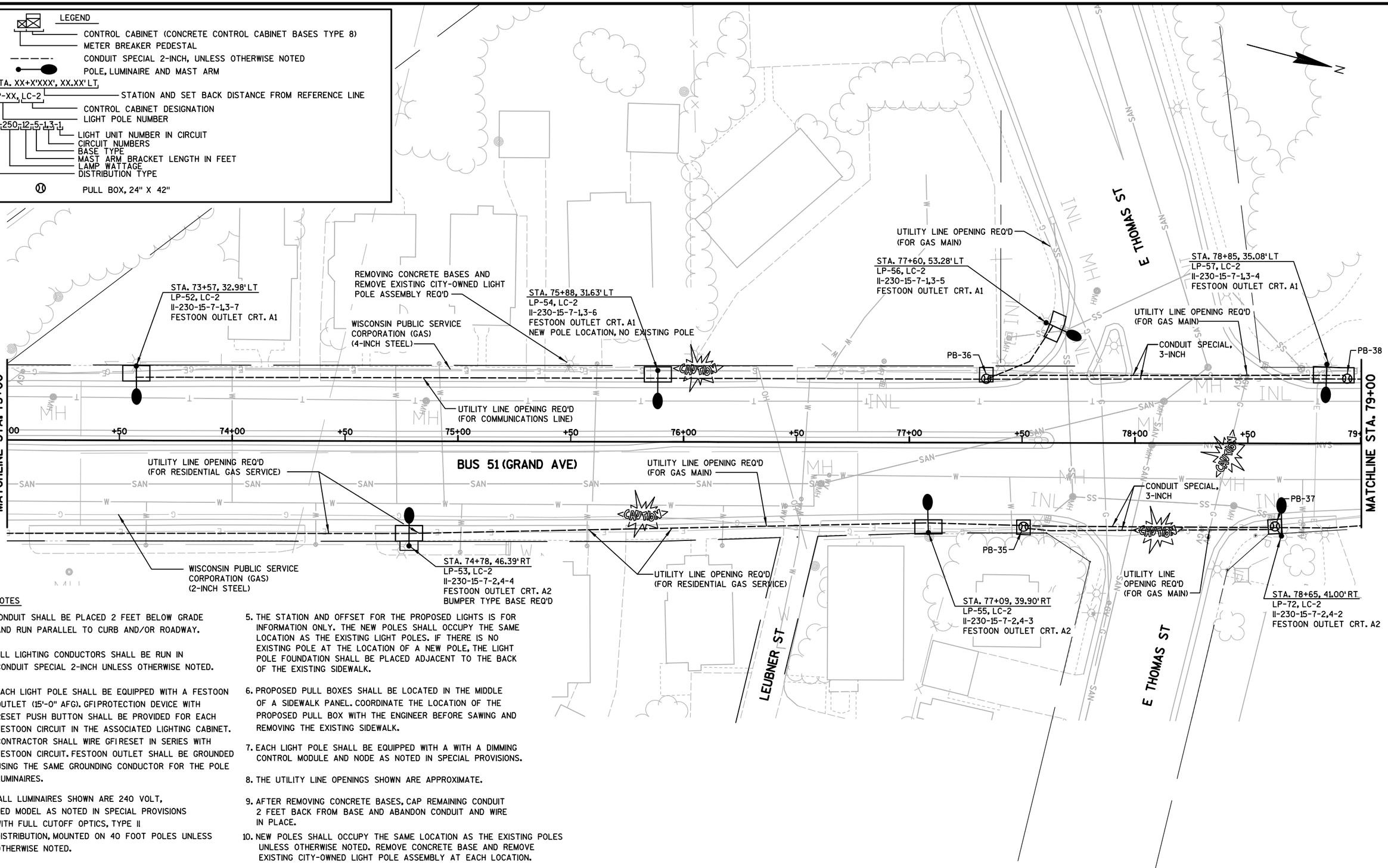
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 50	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT, — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- II-250-12-5-1.3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



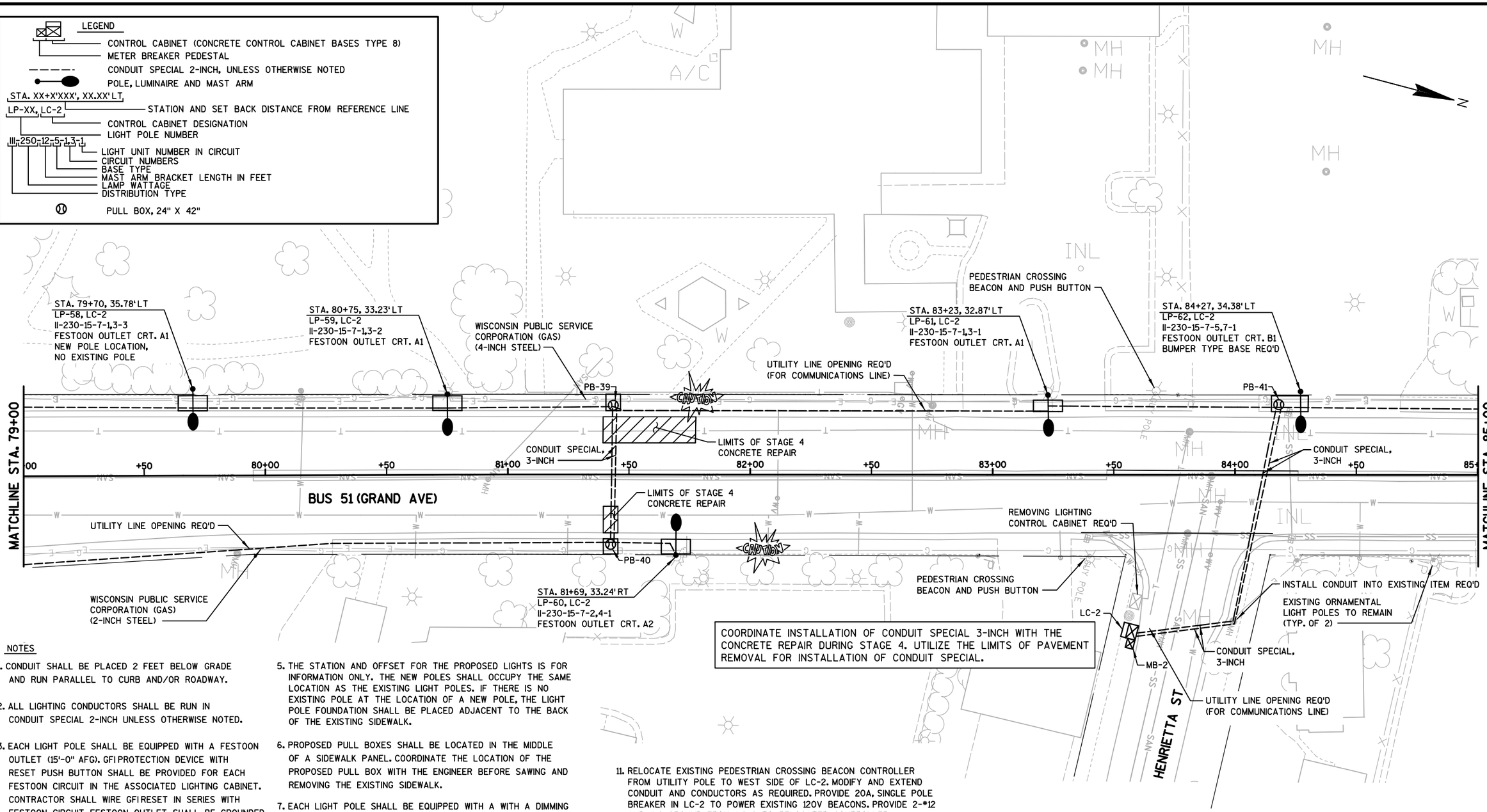
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 51	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX' LT, LP-XX, LC-2 — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- CONTROL CABINET DESIGNATION
- LIGHT POLE NUMBER
- III-250-12-5-1,3-1
  - LIGHT UNIT NUMBER IN CIRCUIT
  - CIRCUIT NUMBERS
  - BASE TYPE
  - MAST ARM BRACKET LENGTH IN FEET
  - LAMP WATTAGE
  - DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



COORDINATE INSTALLATION OF CONDUIT SPECIAL 3-INCH WITH THE CONCRETE REPAIR DURING STAGE 4. UTILIZE THE LIMITS OF PAVEMENT REMOVAL FOR INSTALLATION OF CONDUIT SPECIAL.

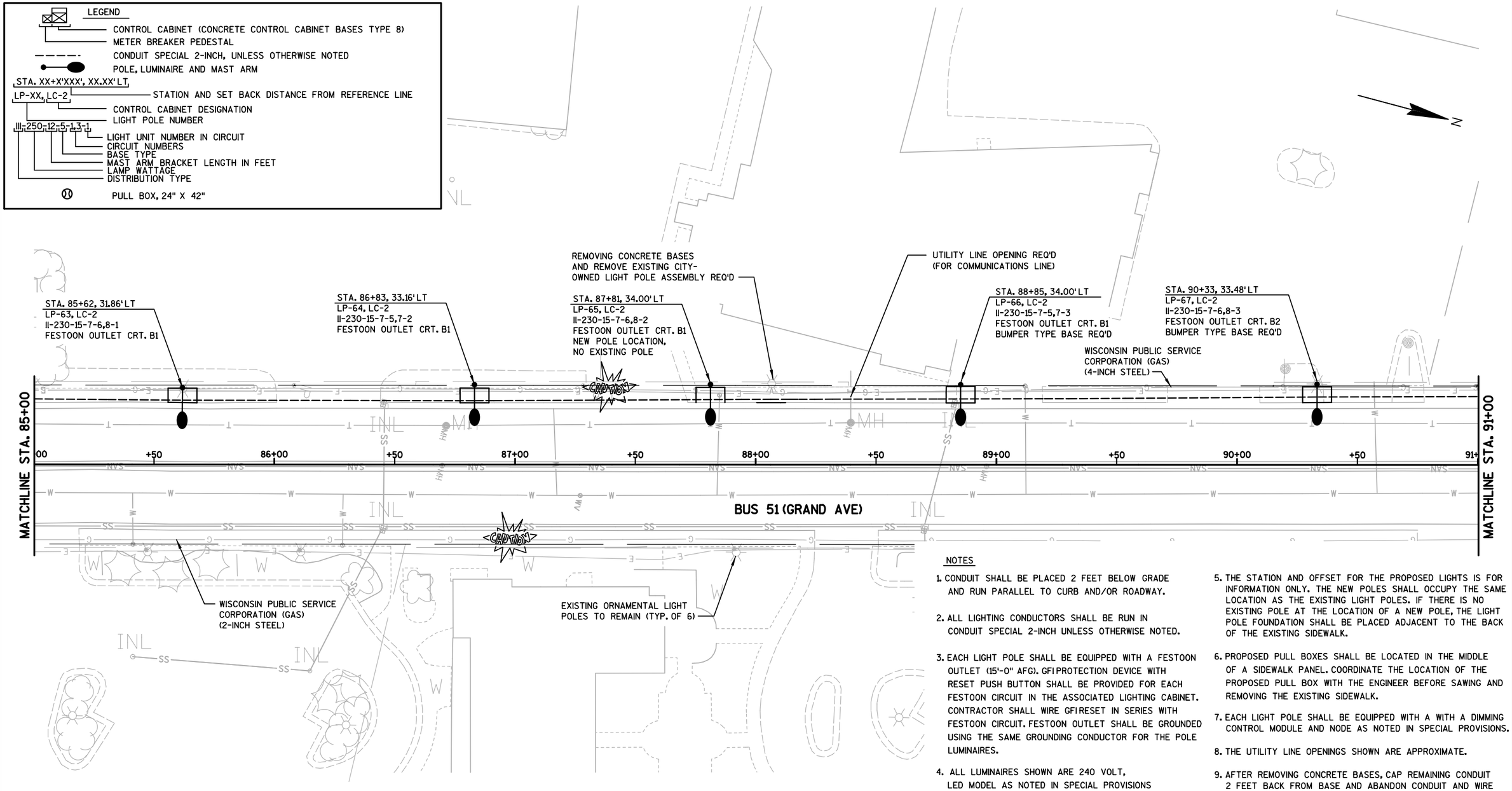
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. PROVIDE 20A, TWO POLE BREAKER IN LC-2 TO POWER EXISTING 240V ORNAMENTAL LIGHTING. PROVIDE 2-#12 AND #12 GROUND FROM LC-2 TO EXISTING PULL BOX. SPLICE NEW CONDUCTORS WITH EXISTING LIGHTING CIRCUIT CONDUCTORS IN EXISTING PULL BOX.
11. RELOCATE EXISTING PEDESTRIAN CROSSING BEACON CONTROLLER FROM UTILITY POLE TO WEST SIDE OF LC-2. MODIFY AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. PROVIDE 20A, SINGLE POLE BREAKER IN LC-2 TO POWER EXISTING 120V BEACONS. PROVIDE 2-#12 AND #12 GROUND FROM LC-2 TO RELOCATED CONTROLLER.
12. COORDINATE WITH UTILITY COMPANY TO PROVIDE NEW 120/240V, 200A, SINGLE PHASE ELECTRICAL SERVICE TO LC-2. METER BREAKER PEDESTAL SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS.
13. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.
14. REMOVE EXISTING LIGHTING CABINET AFTER NEW LIGHTS ARE INSTALLED AND OPERATIONAL AS NOTED IN THE SPECIAL PROVISIONS.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 52	E

LEGEND

- CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
- METER BREAKER PEDESTAL
- CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
- POLE, LUMINAIRE AND MAST ARM
- STA. XX+X'XXX', XX.XX'LT, — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
- LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
- II-250-12-5-1.3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
- PULL BOX, 24" X 42"



NOTES

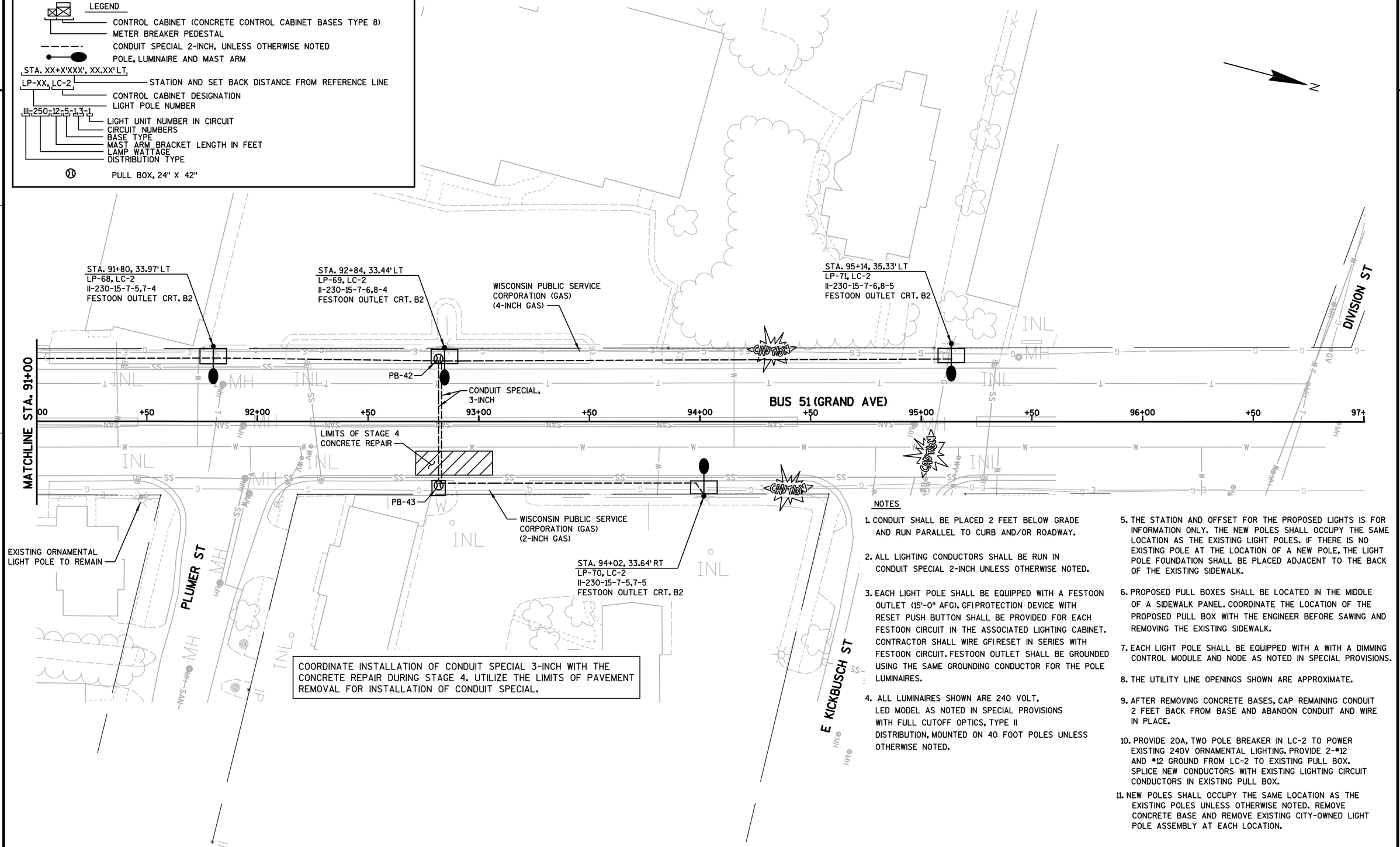
1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. PROVIDE 20A, TWO POLE BREAKER IN LC-2 TO POWER EXISTING 240V ORNAMENTAL LIGHTING. PROVIDE 2-#12 AND #12 GROUND FROM LC-2 TO EXISTING PULL BOX. SPLICE NEW CONDUCTORS WITH EXISTING LIGHTING CIRCUIT CONDUCTORS IN EXISTING PULL BOX.
11. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 53	E

2

LEGEND

CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8)
METER BREAKER PEDESTAL
CONDUIT SPECIAL 2-INCH, UNLESS OTHERWISE NOTED
POLE, LUMINAIRE AND MAST ARM
STA. XX+X'XXX', XX.XX' LT, — STATION AND SET BACK DISTANCE FROM REFERENCE LINE
LP-XX, LC-2 — CONTROL CABINET DESIGNATION / LIGHT POLE NUMBER
II-250-12-5-L3-1 — LIGHT UNIT NUMBER IN CIRCUIT / CIRCUIT NUMBERS / BASE TYPE / MAST ARM BRACKET LENGTH IN FEET / LAMP WATTAGE / DISTRIBUTION TYPE
PULL BOX, 24" X 42"



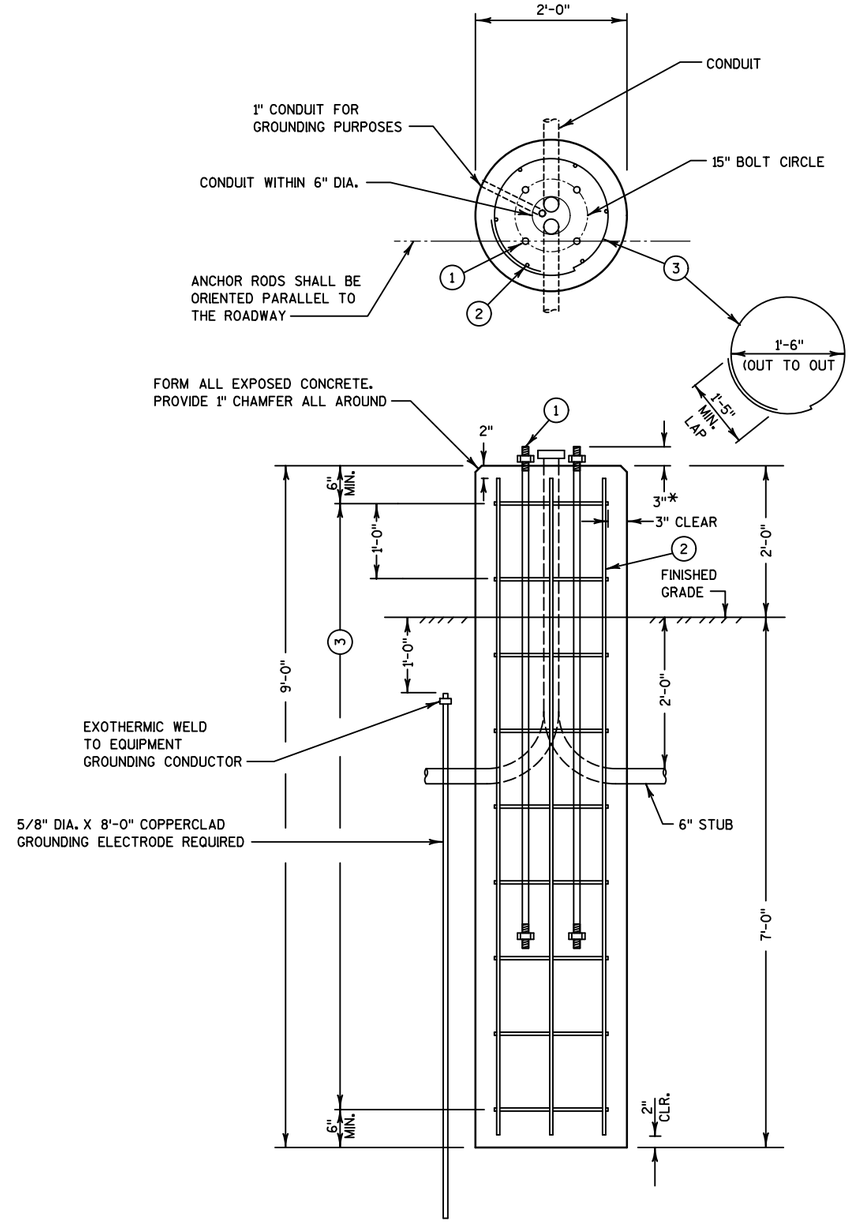
NOTES

1. CONDUIT SHALL BE PLACED 2 FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY.
2. ALL LIGHTING CONDUCTORS SHALL BE RUN IN CONDUIT SPECIAL 2-INCH UNLESS OTHERWISE NOTED.
3. EACH LIGHT POLE SHALL BE EQUIPPED WITH A FESTOON OUTLET (15'-0" AFG). GFI PROTECTION DEVICE WITH RESET PUSH BUTTON SHALL BE PROVIDED FOR EACH FESTOON CIRCUIT IN THE ASSOCIATED LIGHTING CABINET. CONTRACTOR SHALL WIRE GFI RESET IN SERIES WITH FESTOON CIRCUIT. FESTOON OUTLET SHALL BE GROUNDED USING THE SAME GROUNDING CONDUCTOR FOR THE POLE LUMINAIRES.
4. ALL LUMINAIRES SHOWN ARE 240 VOLT, LED MODEL AS NOTED IN SPECIAL PROVISIONS WITH FULL CUTOFF OPTICS, TYPE II DISTRIBUTION, MOUNTED ON 40 FOOT POLES UNLESS OTHERWISE NOTED.
5. THE STATION AND OFFSET FOR THE PROPOSED LIGHTS IS FOR INFORMATION ONLY. THE NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING LIGHT POLES. IF THERE IS NO EXISTING POLE AT THE LOCATION OF A NEW POLE, THE LIGHT POLE FOUNDATION SHALL BE PLACED ADJACENT TO THE BACK OF THE EXISTING SIDEWALK.
6. PROPOSED PULL BOXES SHALL BE LOCATED IN THE MIDDLE OF A SIDEWALK PANEL. COORDINATE THE LOCATION OF THE PROPOSED PULL BOX WITH THE ENGINEER BEFORE SAWING AND REMOVING THE EXISTING SIDEWALK.
7. EACH LIGHT POLE SHALL BE EQUIPPED WITH A WITH A DIMMING CONTROL MODULE AND NODE AS NOTED IN SPECIAL PROVISIONS.
8. THE UTILITY LINE OPENINGS SHOWN ARE APPROXIMATE.
9. AFTER REMOVING CONCRETE BASES, CAP REMAINING CONDUIT 2 FEET BACK FROM BASE AND ABANDON CONDUIT AND WIRE IN PLACE.
10. PROVIDE 20A, TWO POLE BREAKER IN LC-2 TO POWER EXISTING 240V ORNAMENTAL LIGHTING. PROVIDE 2-#12 AND #12 GROUND FROM LC-2 TO EXISTING PULL BOX. SPLICE NEW CONDUCTORS WITH EXISTING LIGHTING CIRCUIT CONDUCTORS IN EXISTING PULL BOX.
11. NEW POLES SHALL OCCUPY THE SAME LOCATION AS THE EXISTING POLES UNLESS OTHERWISE NOTED. REMOVE CONCRETE BASE AND REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY AT EACH LOCATION.

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	LIGHTING DETAIL	SHEET 54	E

ESTIMATED QUANTITIES PER BASE

APPROX. CUBIC YARDS OF CONCRETE	1
LBS. OF HOOP BAR STEEL	37
LBS. OF VERTICAL BAR STEEL	78



CONCRETE BASES TYPE 7 BUMPER TYPE

NO SCALE

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

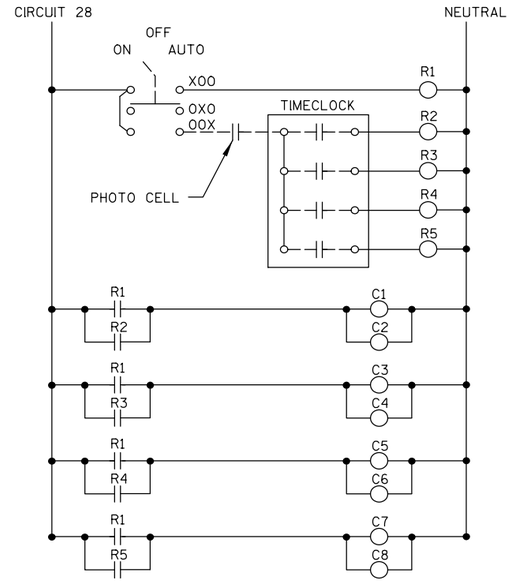
(1) (4) 1" DIA. X 5'-0" ANCHOR RODS

(2) (6) NO. 6 X 8'-8" BAR STEEL REINFORCEMENT

(3) (9) NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

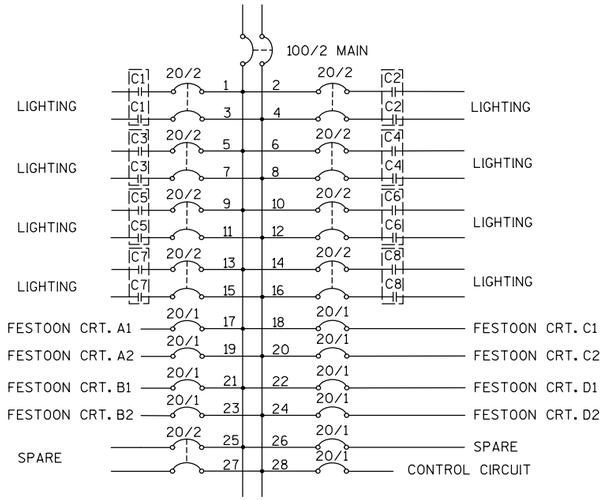
NOTE:

ALL REQUIREMENTS OF "CONCRETE BASE, TYPE 7", SHALL APPLY EXCEPT AS MODIFIED BY THIS SHEET.



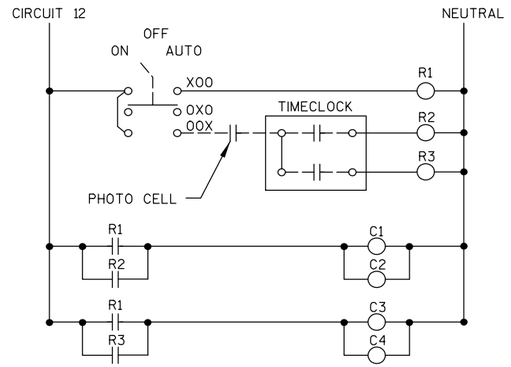
LC-1 CONTROL SCHEMATIC

NO SCALE



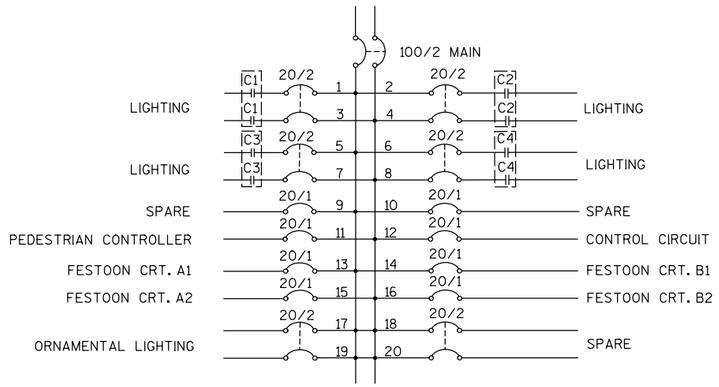
LC-1

NO SCALE



LC-2 CONTROL SCHEMATIC

NO SCALE



LC-2

NO SCALE

2

KENT ST

ROSS AVE

N

BUS 51 (GRAND AVE)

BUS 51 (GRAND AVE)

MATCHLINE STA. 19+00

E KENT ST

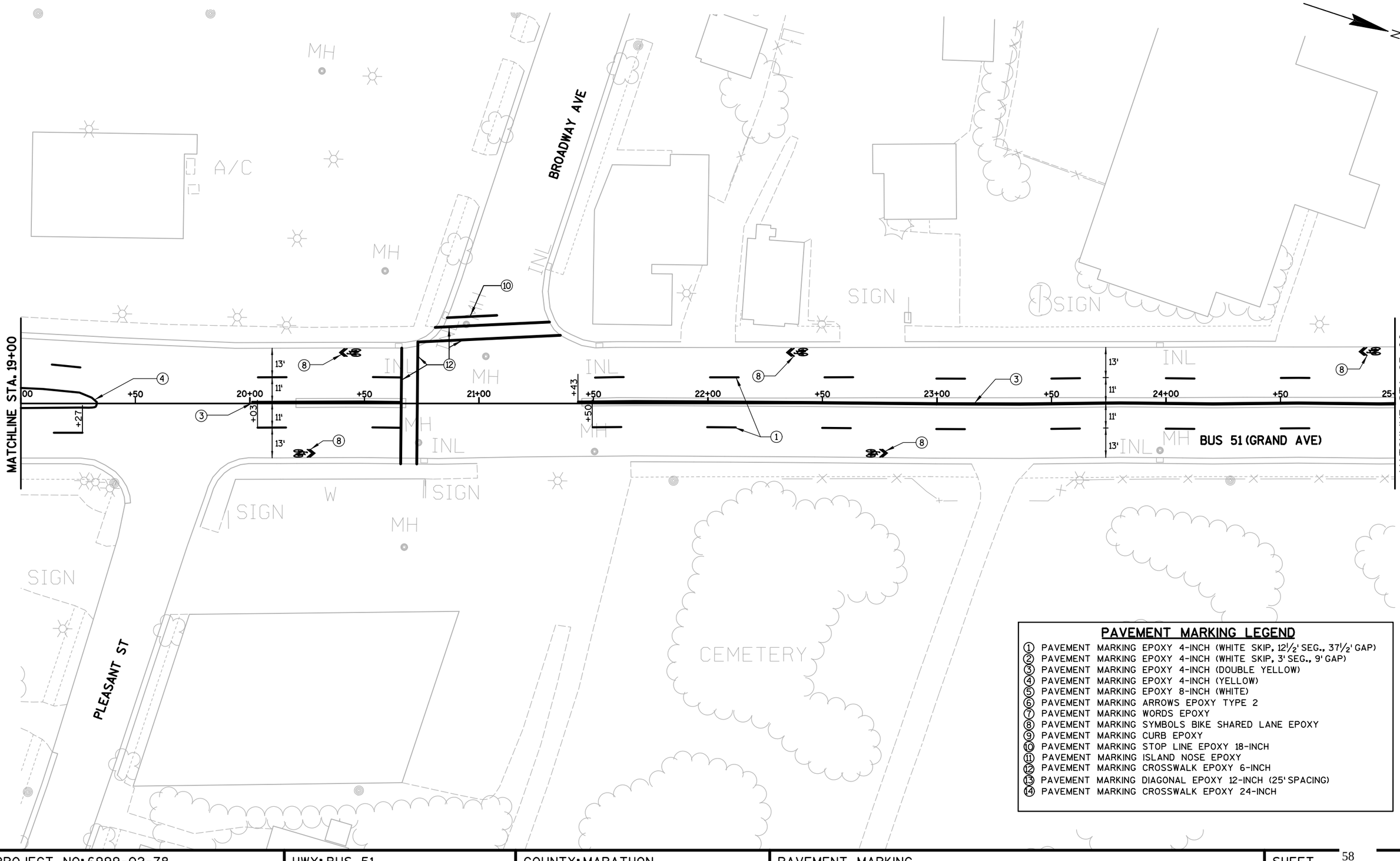
E ROSS AVE

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PAVEMENT MARKING	SHEET 57	E

2



PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
② PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
③ PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
④ PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
⑤ PAVEMENT MARKING EPOXY 8-INCH (WHITE)
⑥ PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑦ PAVEMENT MARKING WORDS EPOXY
⑧ PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
⑨ PAVEMENT MARKING CURB EPOXY
⑩ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑪ PAVEMENT MARKING ISLAND NOSE EPOXY
⑫ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑬ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
⑭ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PAVEMENT MARKING	SHEET 58	E

2

N

WESTON AVE

MH

SIGN

INL

MATCHLINE STA. 25+00

MATCHLINE STA. 31+00

26+00

27+00

28+00

29+00

30+00

+50

+60

+32

13'

11'

11'

13'

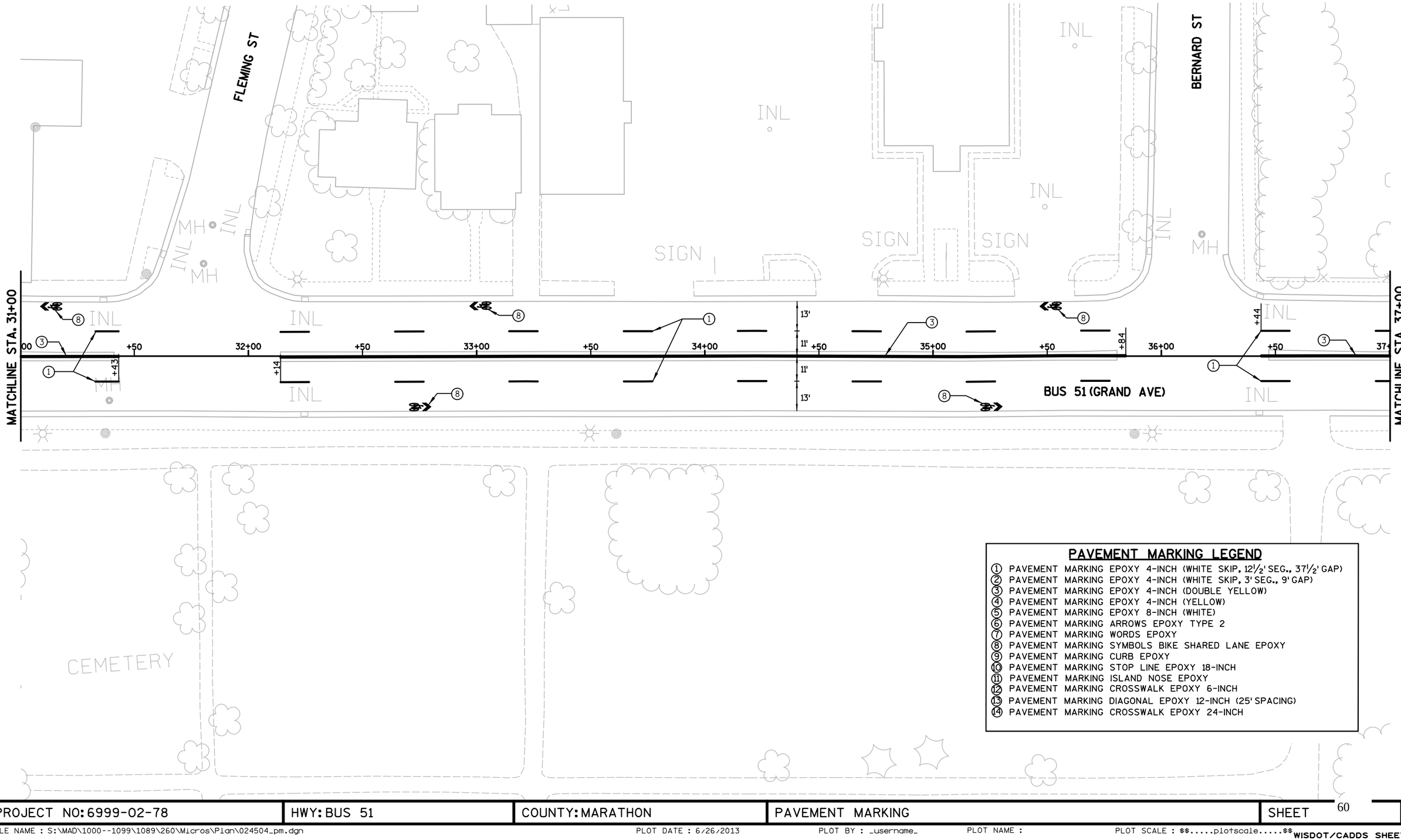
BUS 51 (GRAND AVE)

CEMETERY

PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
② PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
③ PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
④ PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
⑤ PAVEMENT MARKING EPOXY 8-INCH (WHITE)
⑥ PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑦ PAVEMENT MARKING WORDS EPOXY
⑧ PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
⑨ PAVEMENT MARKING CURB EPOXY
⑩ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑪ PAVEMENT MARKING ISLAND NOSE EPOXY
⑫ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑬ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
⑭ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

2

N

RUDER ST

MILLER AVE

FILLER CAPS

CANOPY

SIGN

CEMETERY

MH

INL

MATCHLINE STA. 37+00

MATCHLINE STA. 43+00

00 +50 38+00 +50 39+00 +50 40+00 +10 +50 41+00 +82 +50 42+00 +22 +50 +85 43+

13'

11'

11'

13'

BUS 51 (GRAND AVE)

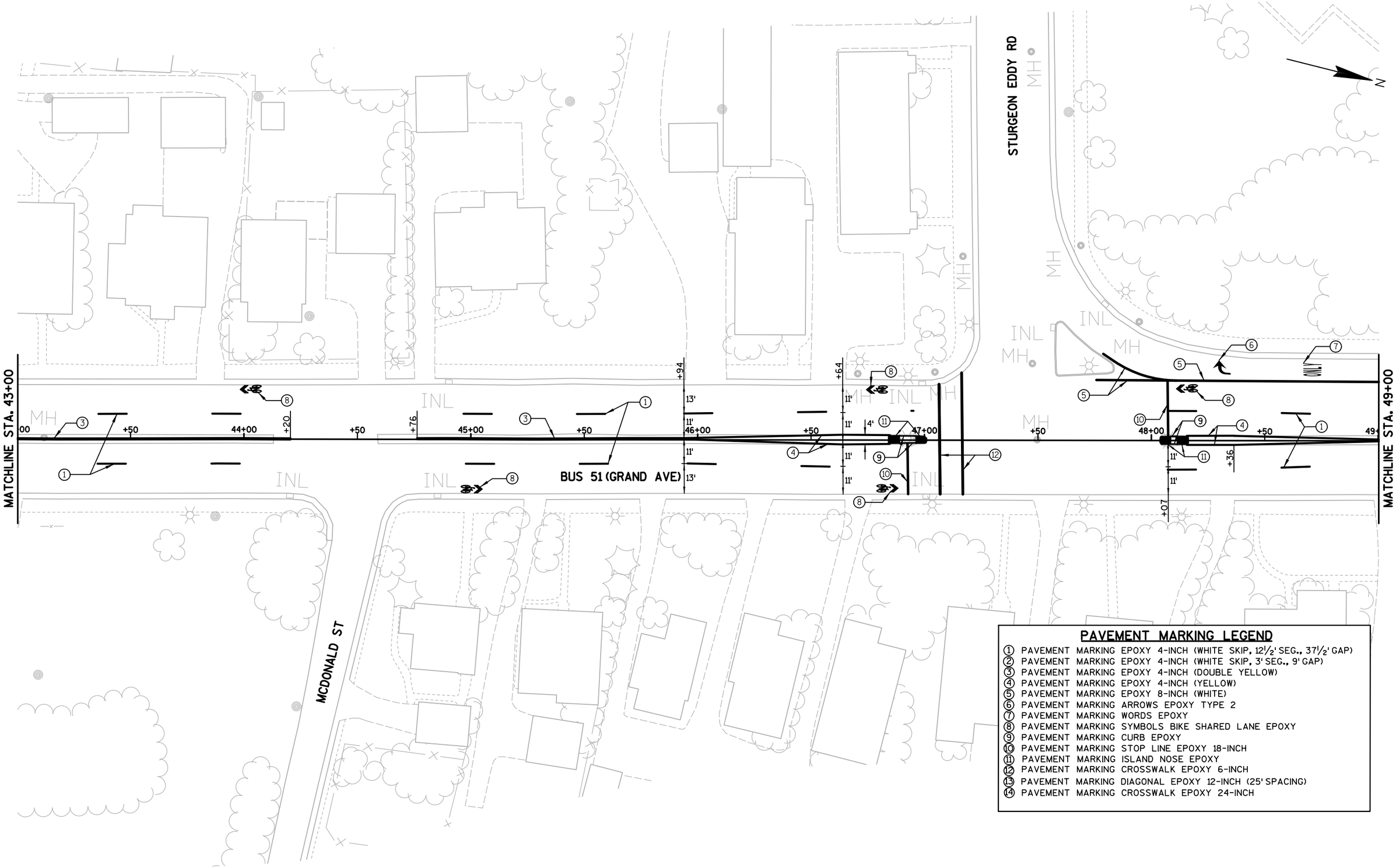
CEMETERY

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PAVEMENT MARKING	SHEET 61	E

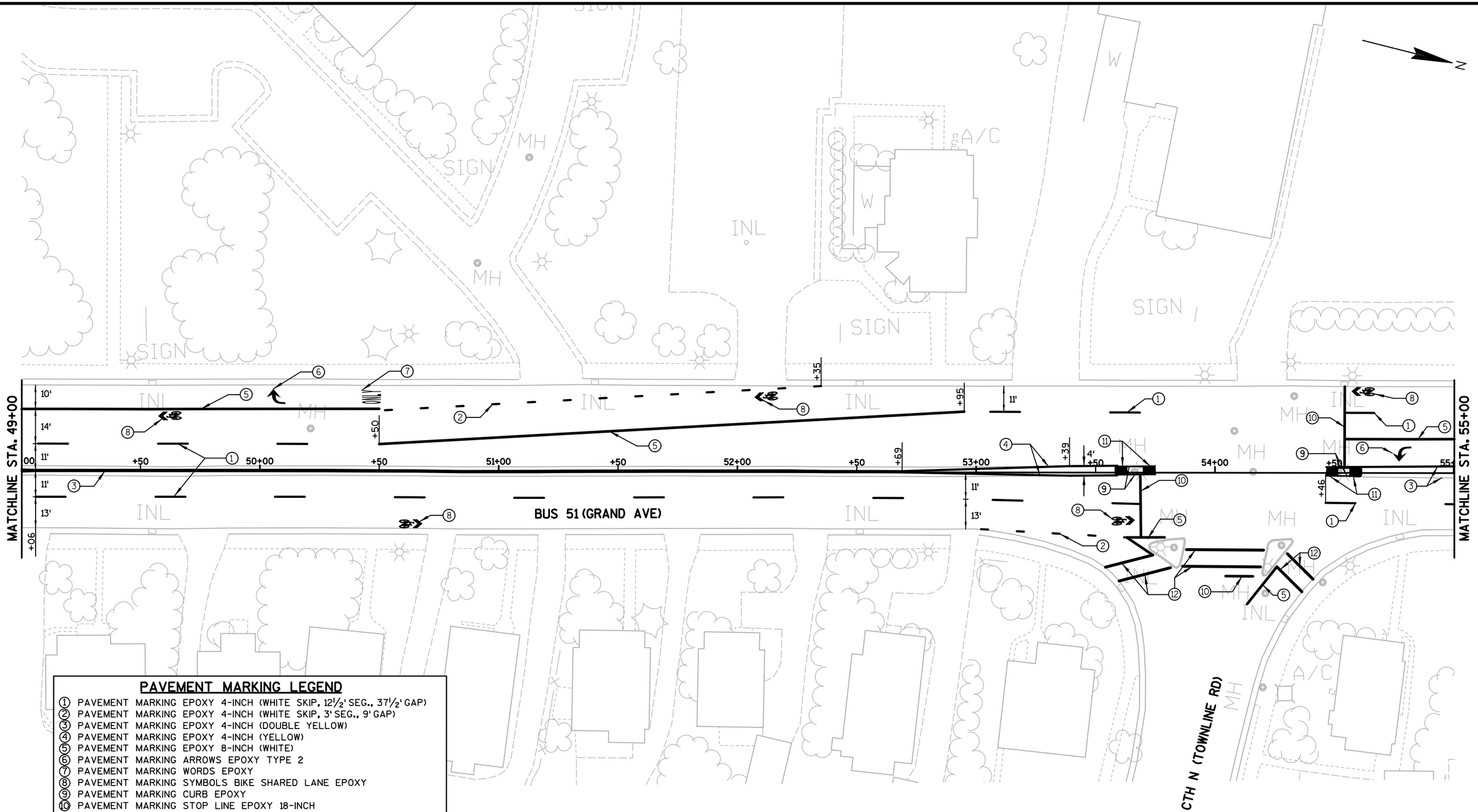
2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

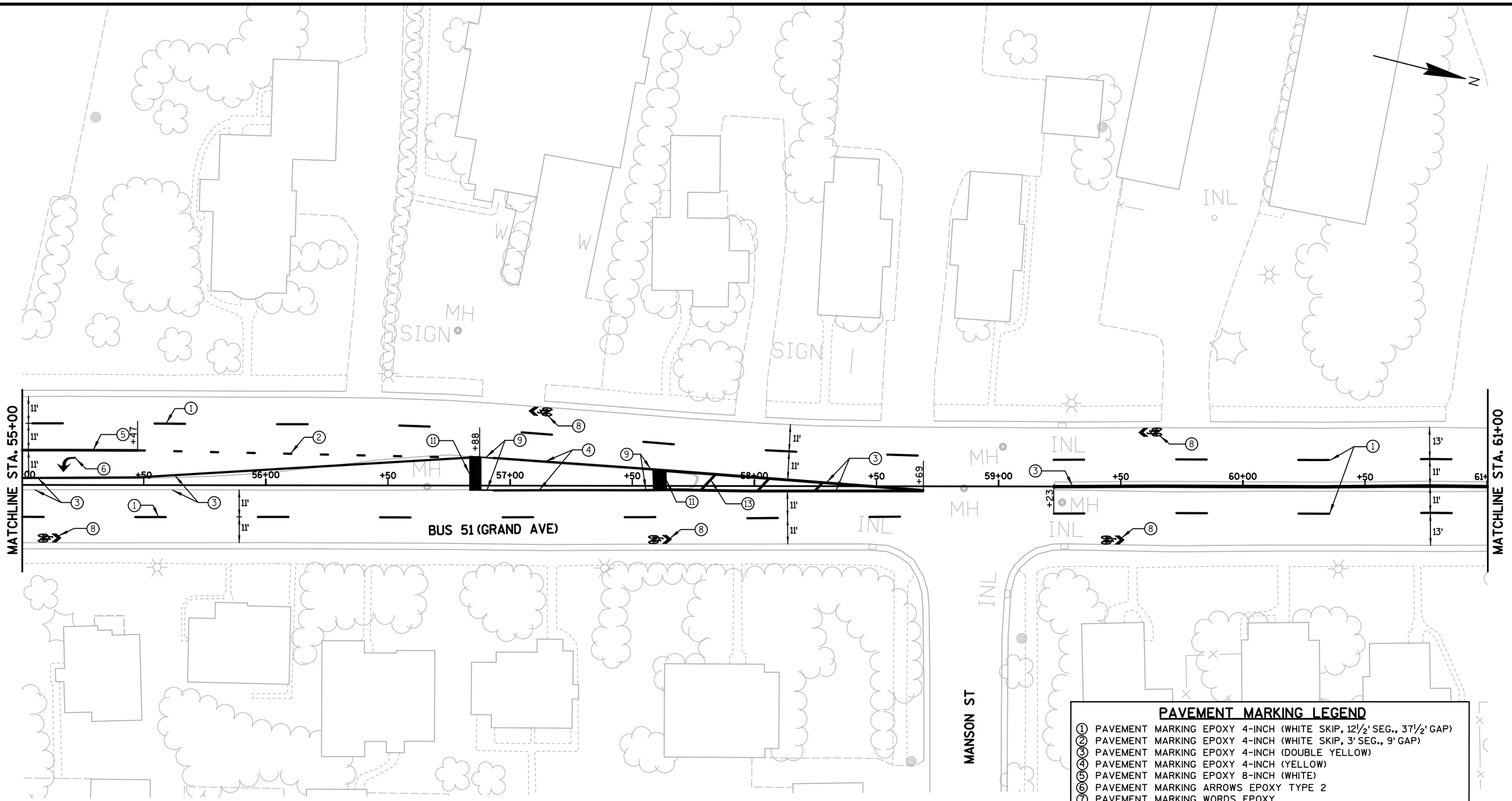
2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

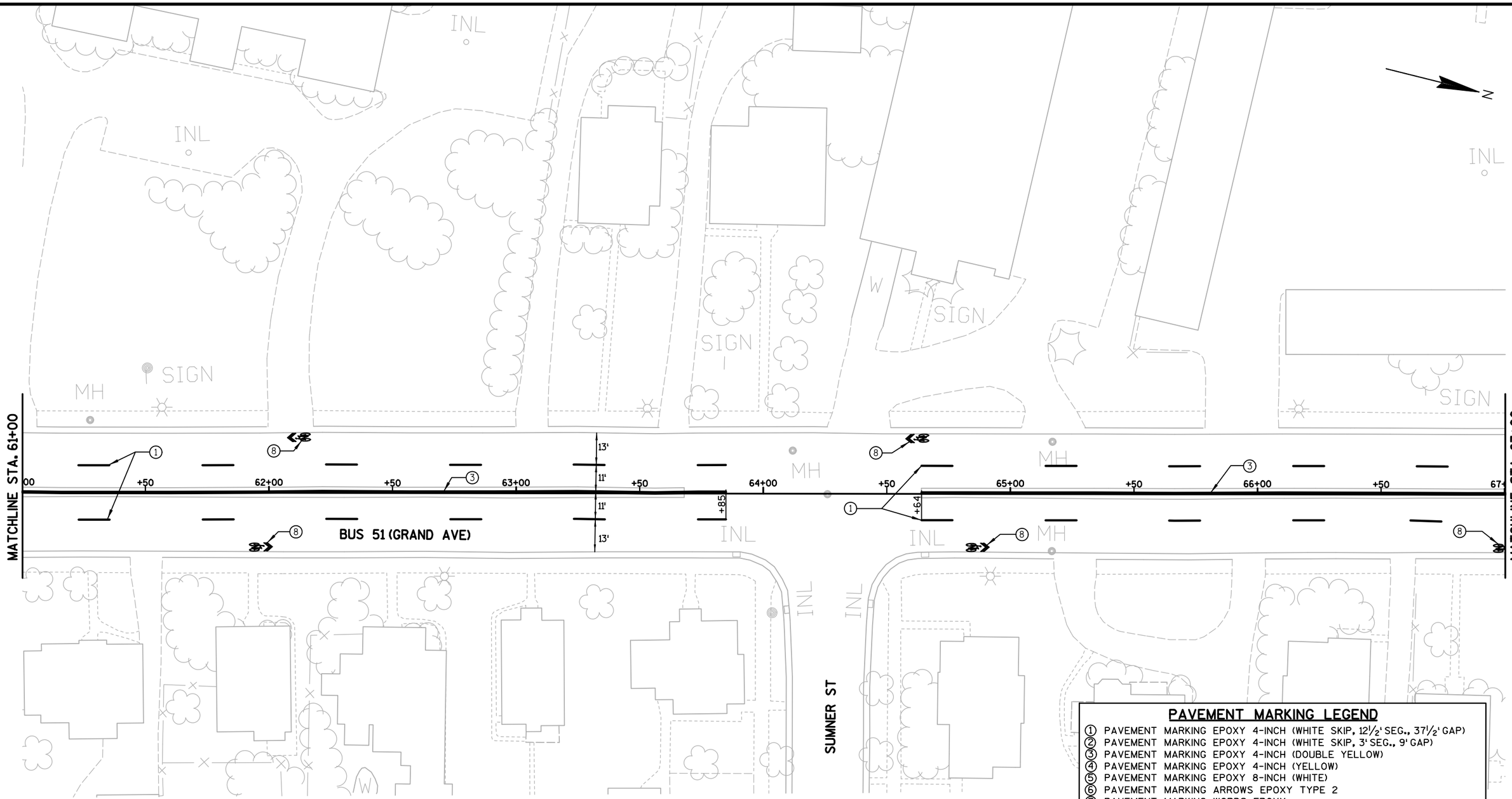
2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

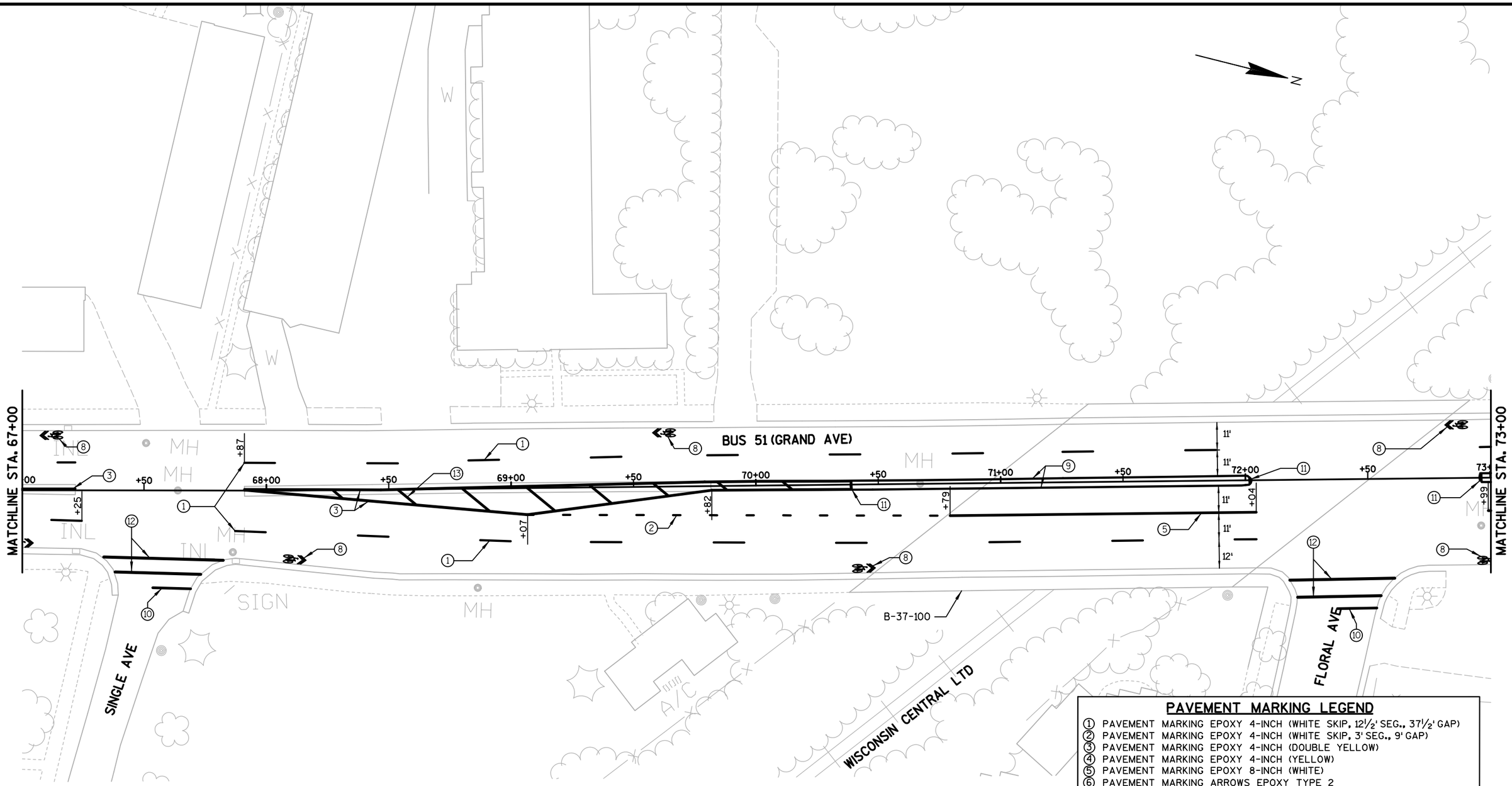
2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

2

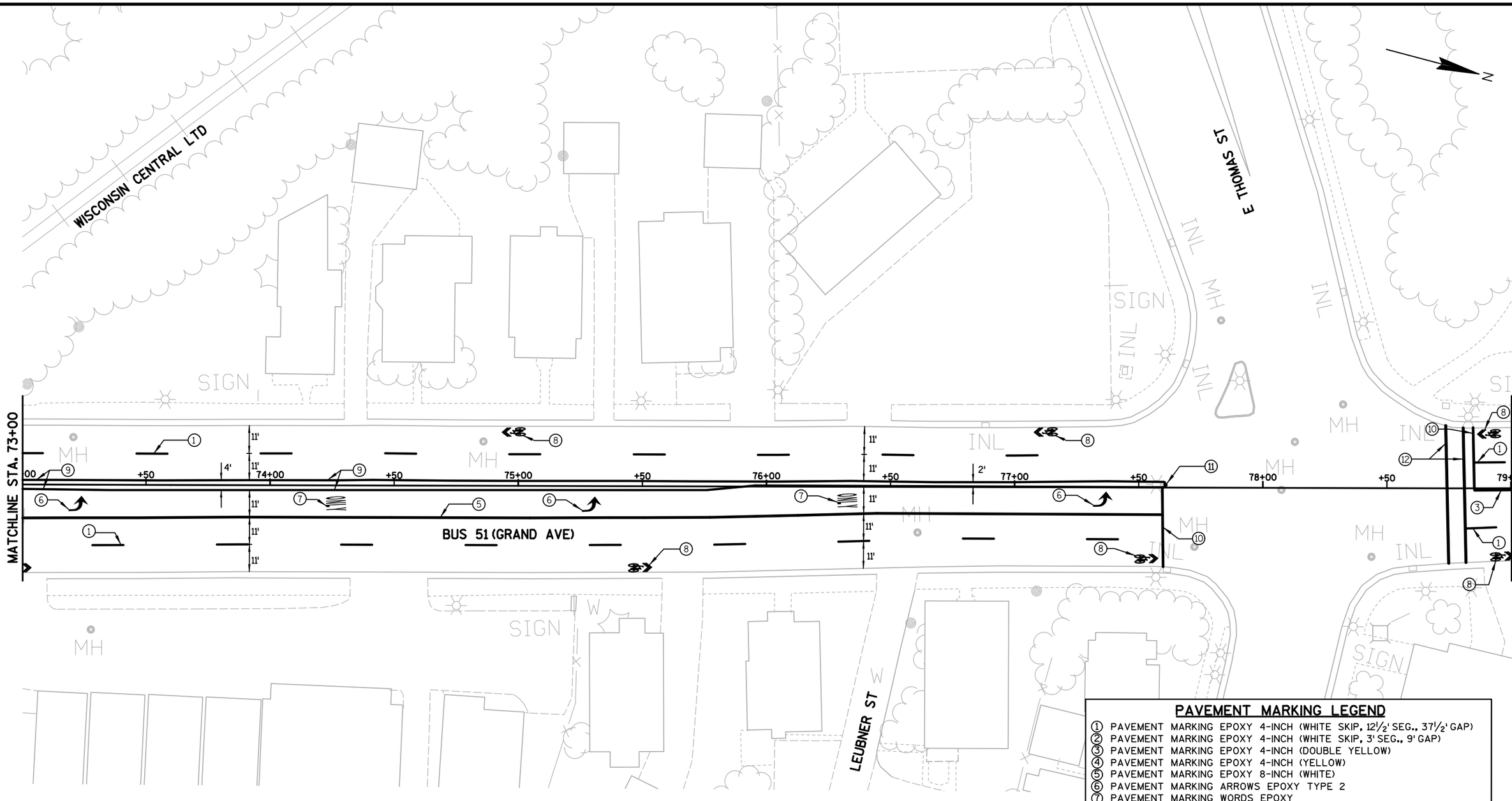


PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PAVEMENT MARKING	SHEET 66	E

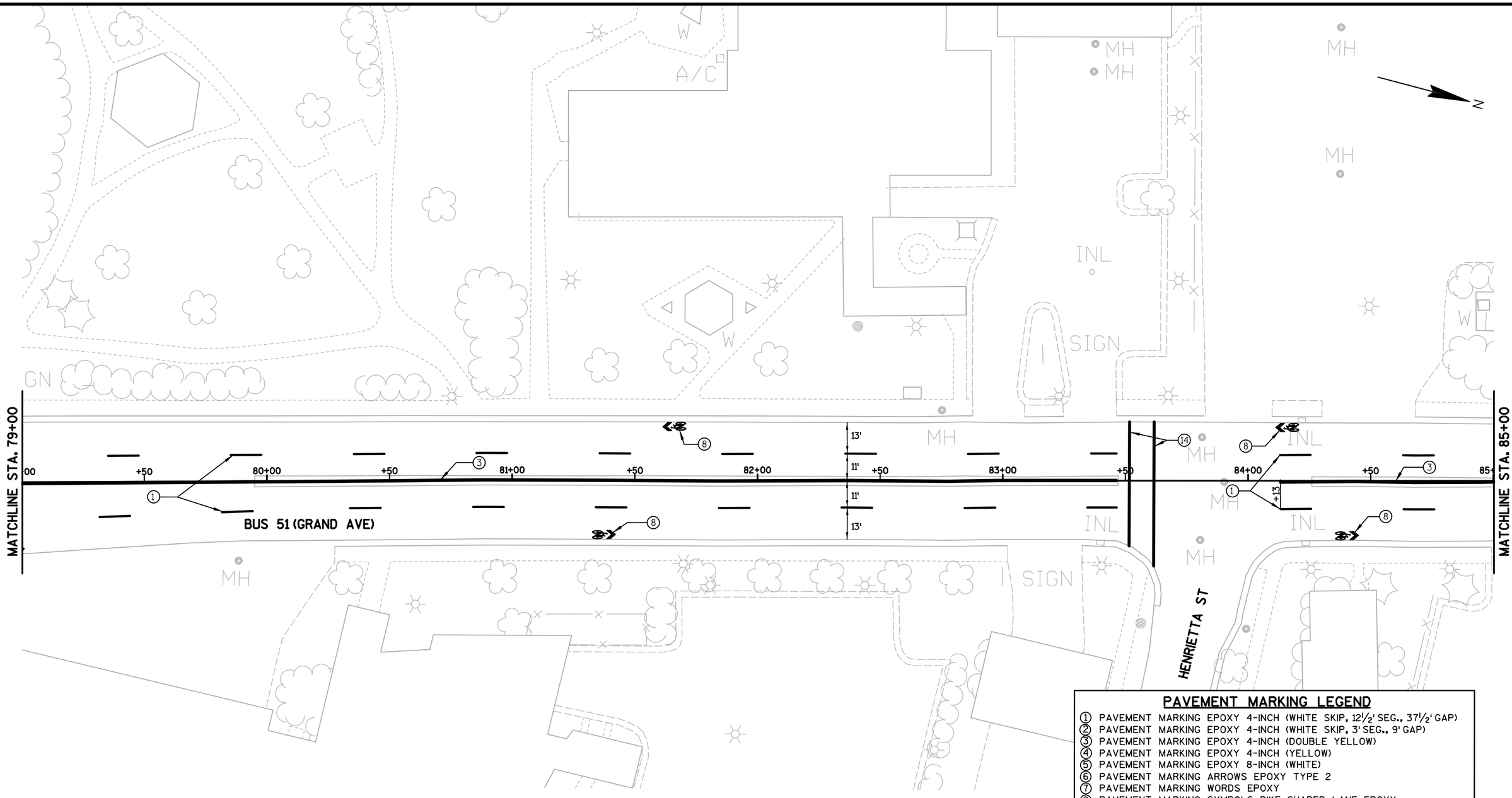
2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

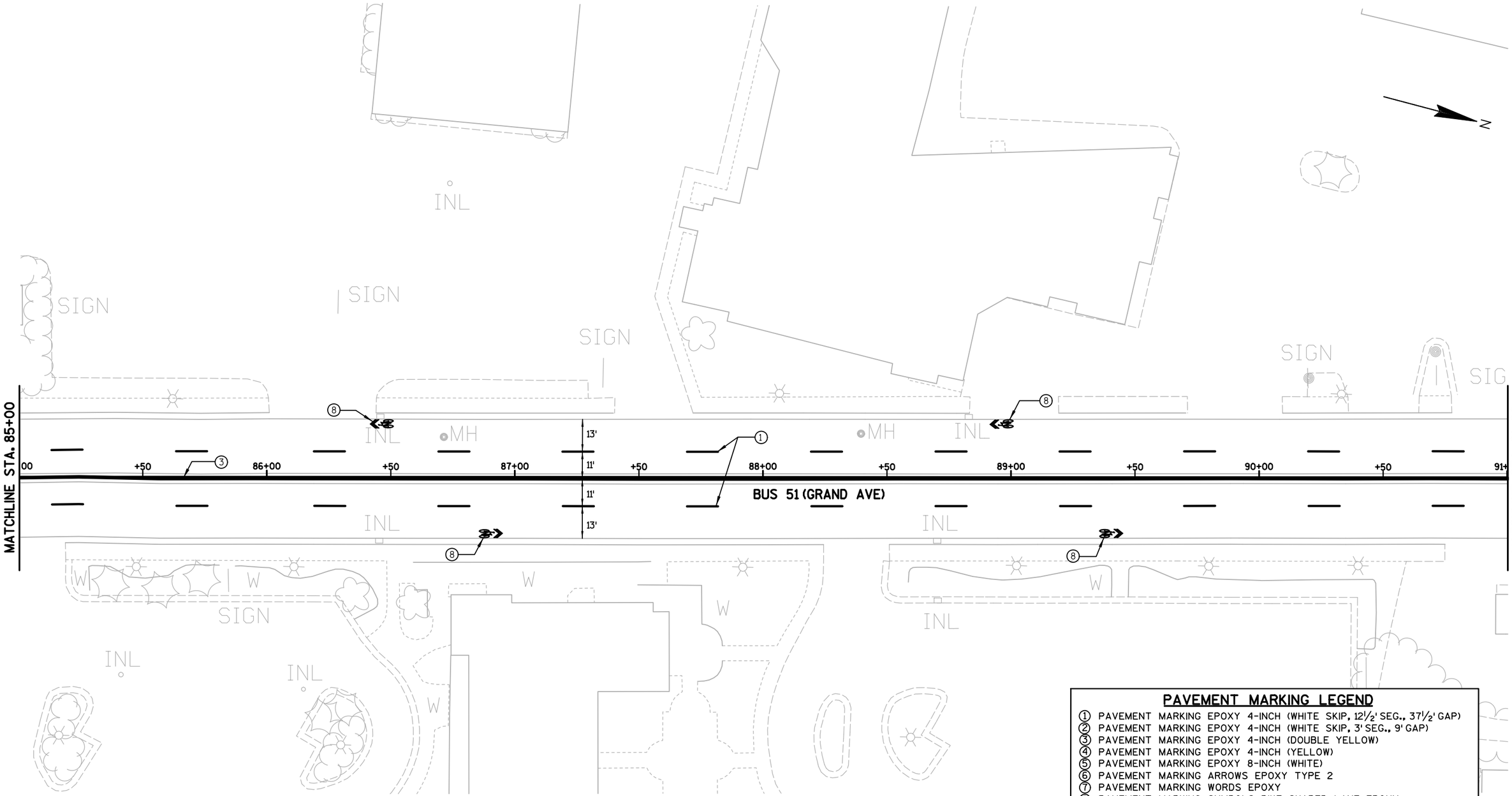
2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

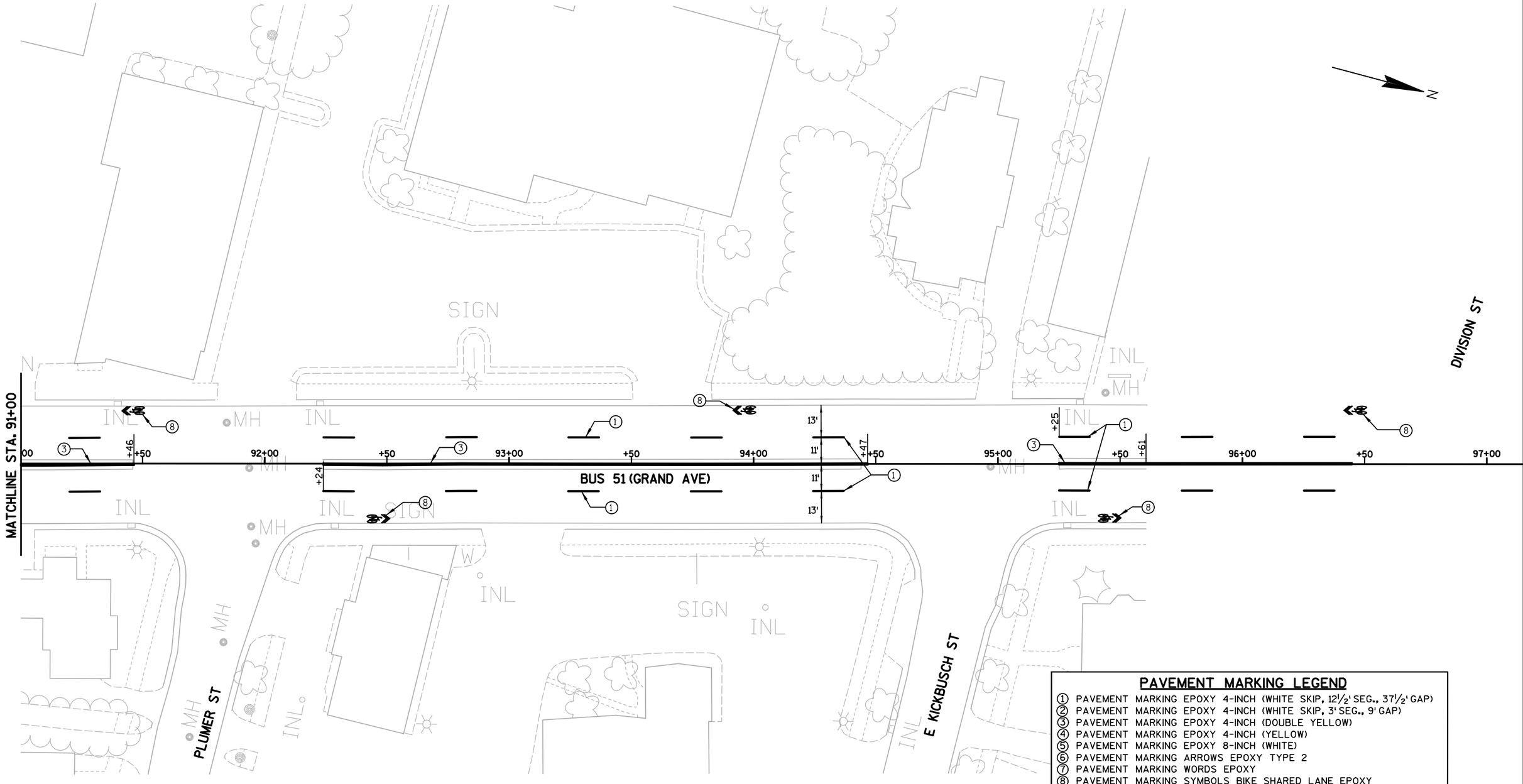
2



PAVEMENT MARKING LEGEND

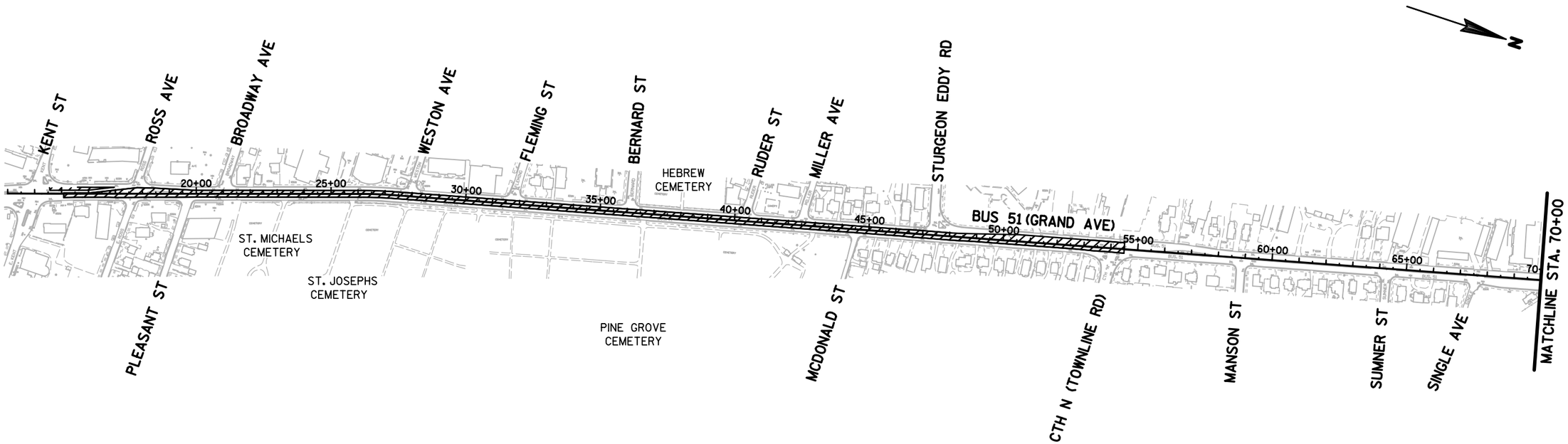
1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH

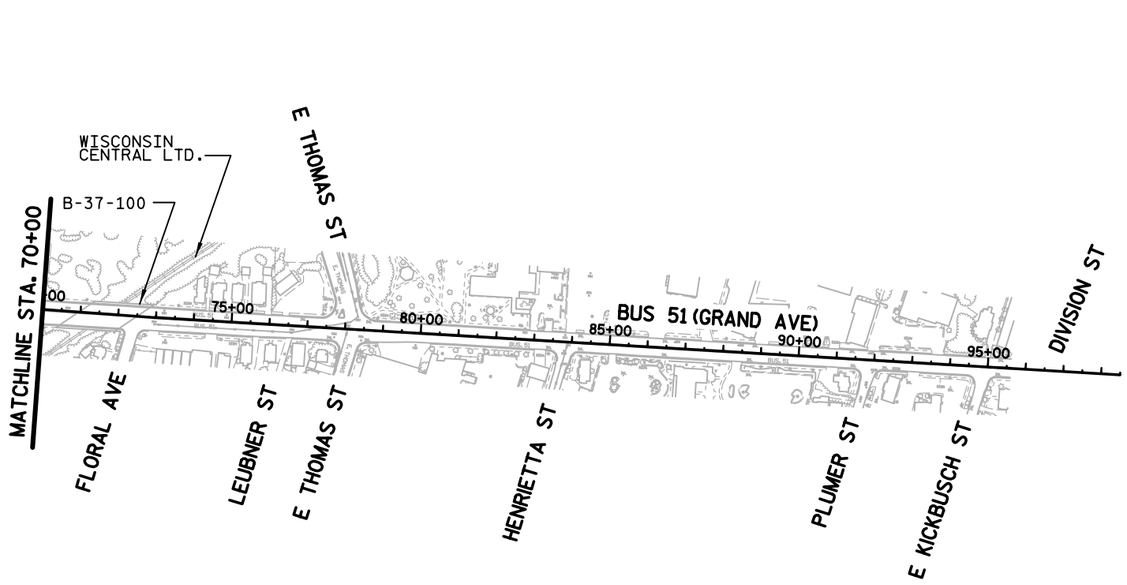
2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 12½' SEG., 37½' GAP)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE SKIP, 3' SEG., 9' GAP)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
5. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
6. PAVEMENT MARKING ARROWS EPOXY TYPE 2
7. PAVEMENT MARKING WORDS EPOXY
8. PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY
9. PAVEMENT MARKING CURB EPOXY
10. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
11. PAVEMENT MARKING ISLAND NOSE EPOXY
12. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (25' SPACING)
14. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH





STAGE 1

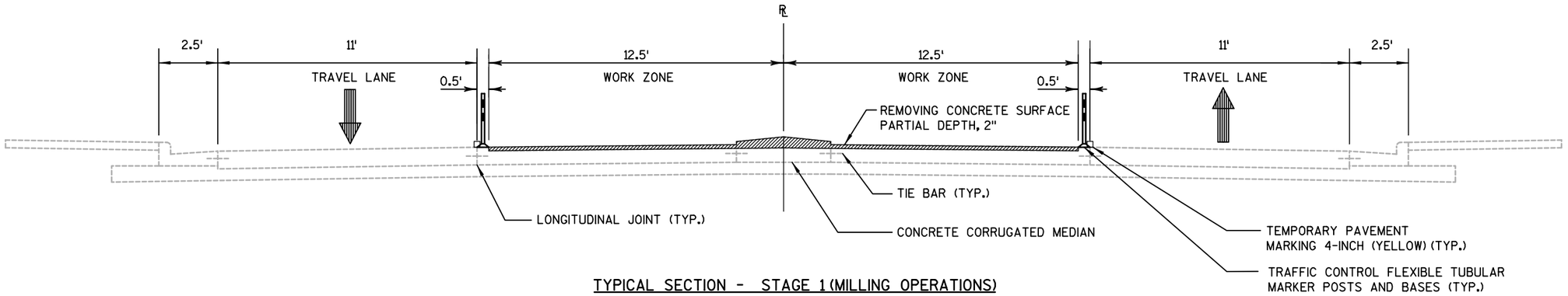
PURPOSE:
COMPLETE CONCRETE PAVEMENT REPAIR AND HMA OVERLAY OF THE INSIDE LANES OF BUSINESS 51 FROM KENT STREET TO CTH N.

TRAFFIC HANDLING:
TRAFFIC ON BUSINESS 51 SHALL BE ON THE OUTSIDE LANE OF EXISTING NORTHBOUND AND SOUTHBOUND PAVEMENT.

RESTRICTIONS:
THE INTERSECTIONS OF KENT STREET, WESTON AVENUE, STURGEON EDDY ROAD, AND CTH N SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. ALL OTHER INTERSECTIONS CAN BE CLOSED DURING STAGE 1 CONSTRUCTION OPERATIONS.

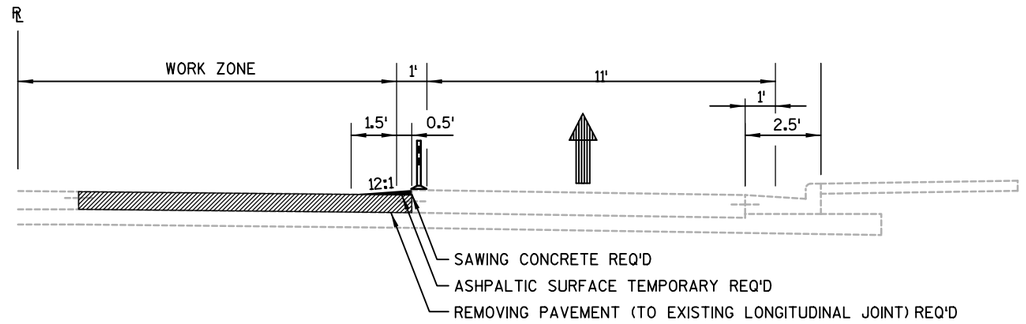
WORK ZONE

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1 OVERVIEW	SHEET 71	E



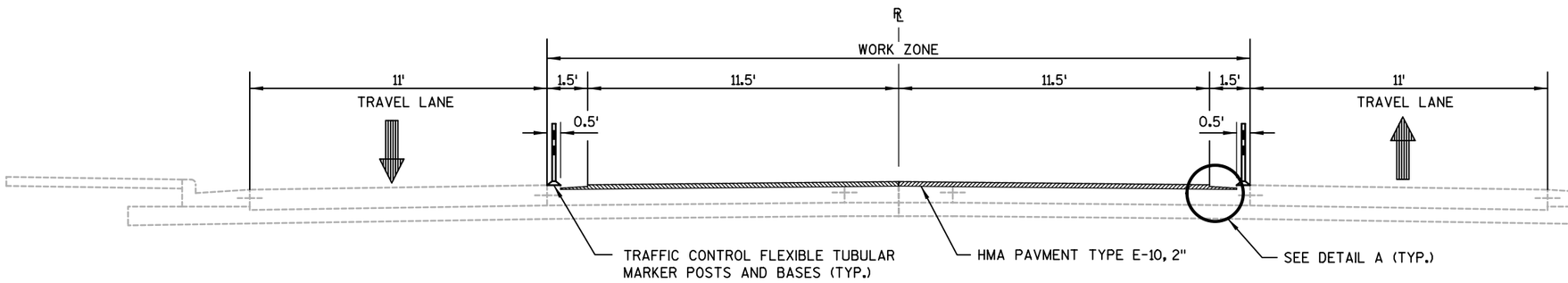
TYPICAL SECTION - STAGE 1 (MILLING OPERATIONS)

STA. 15+08 - STA. 54+50



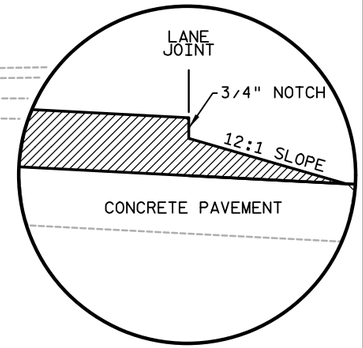
REMOVAL LIMITS IN AREAS OF PAVEMENT REPAIR

(REVERSE FOR SOUTHBOUND BUS 51)



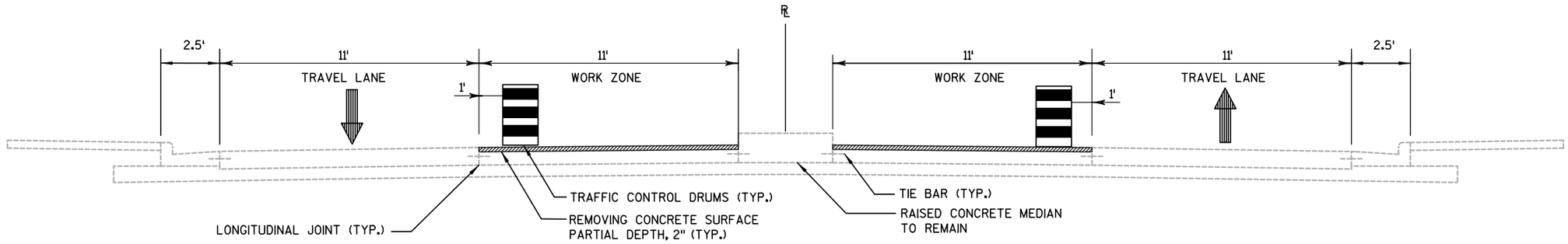
TYPICAL SECTION - STAGE 1 (PAVING OPERATIONS)

STA. 15+08 - STA. 54+50



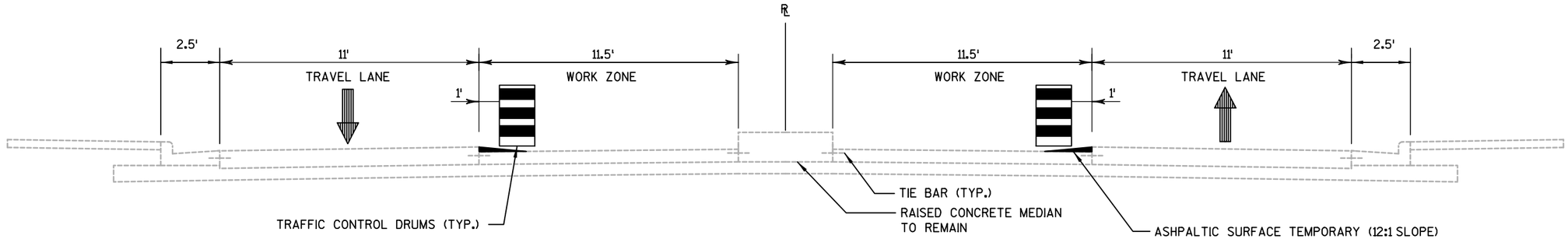
DETAIL A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 1 TYPICAL SECTIONS	SHEET 72	E



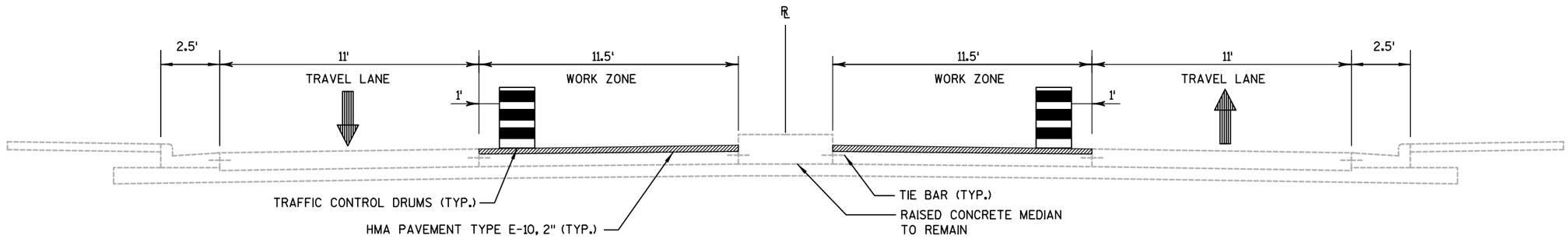
TYPICAL SECTION - STAGE 1 (MILLING OPERATIONS)

STURGEON EDDY ROAD
TOWNLINE ROAD



TYPICAL SECTION - STAGE 1

STURGEON EDDY ROAD
TOWNLINE ROAD



TYPICAL SECTION - STAGE 1 (PAVING OPERATIONS)

STURGEON EDDY ROAD
TOWNLINE ROAD

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 1 TYPICAL SECTIONS	SHEET 73	E

2

2

TRAFFIC CONTROL SIGNS PCMS TO BE INSTALLED TWO WEEKS PRIOR TO BEGINNING STAGE 1 CONSTRUCTION.

SEE DETAILS FOR STAGE 1 CONSTRUCTION

LAKE VIEW CT

ETHEL ST

EAU CLAIRE BLVD

KENT ST

E KENT ST

E ROSS AVE

N

END ROAD WORK
G20-2A
48" X 24"

TRAFFIC CONTROL SIGNS PCMS REQ'D

BUS 51 (GRAND AVE)

700'

700'

MB

350'

25' (TYP.)

225'

100'

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)

SEE OVERHEAD SIGN SUPPORT DETAIL FOR COVERING OF SIGNS

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

R11-2(MOD)
48" X 30"

LANE CLOSED

TYPE III BARRICADE

LEFT TURN LANE

R3-55L(MOD)
24" X 30"

ROAD WORK AHEAD
W20-1

LEFT LANE CLOSED AHEAD
W20-5

W04-2L

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

ONLY | ONLY | ONLY

TRAFFIC CONTROL COVERING SIGNS TYPE II REQ'D

OVERHEAD SIGN SUPPORT DETAIL

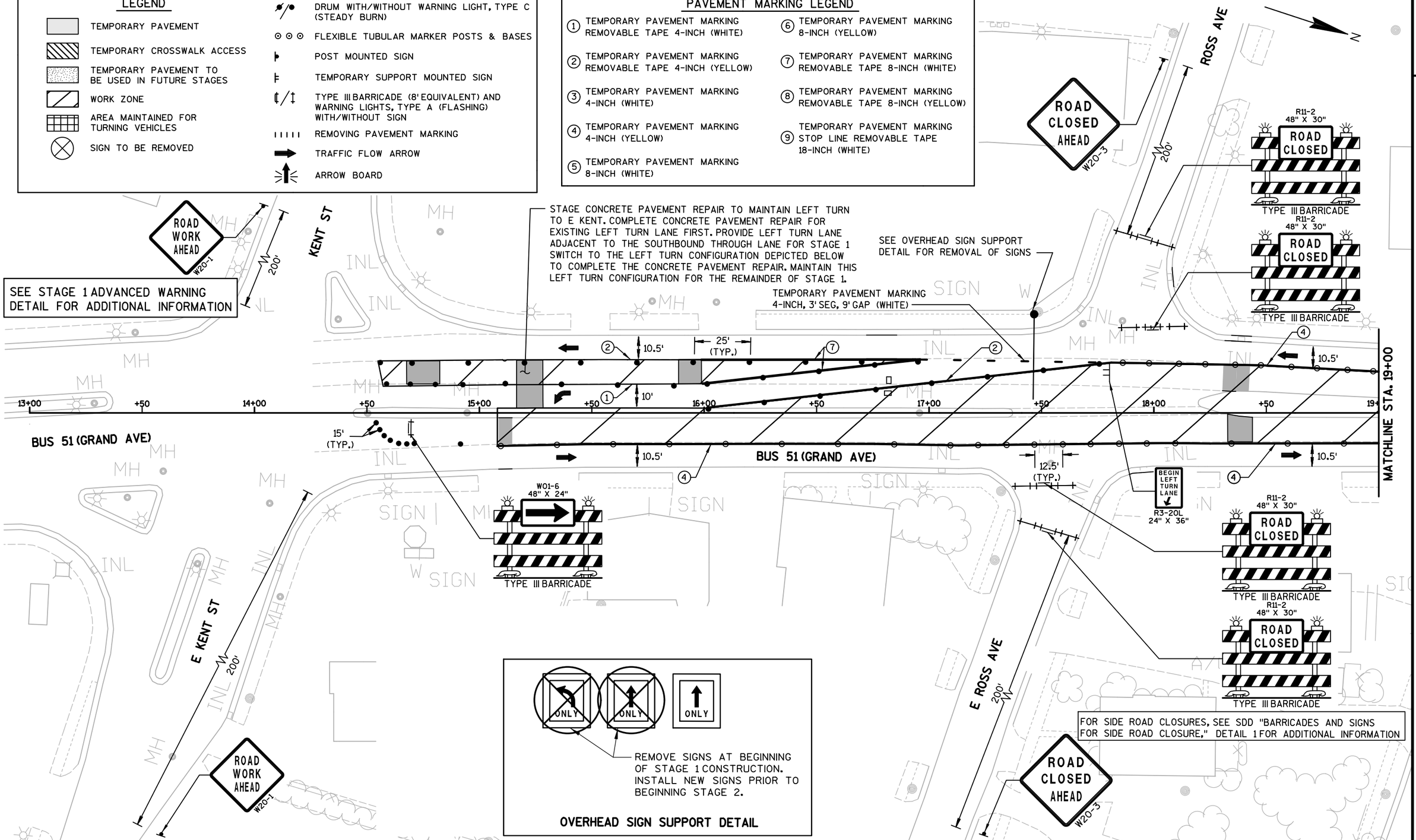
PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1 ADVANCED WARNING	SHEET 74	E

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 75	E

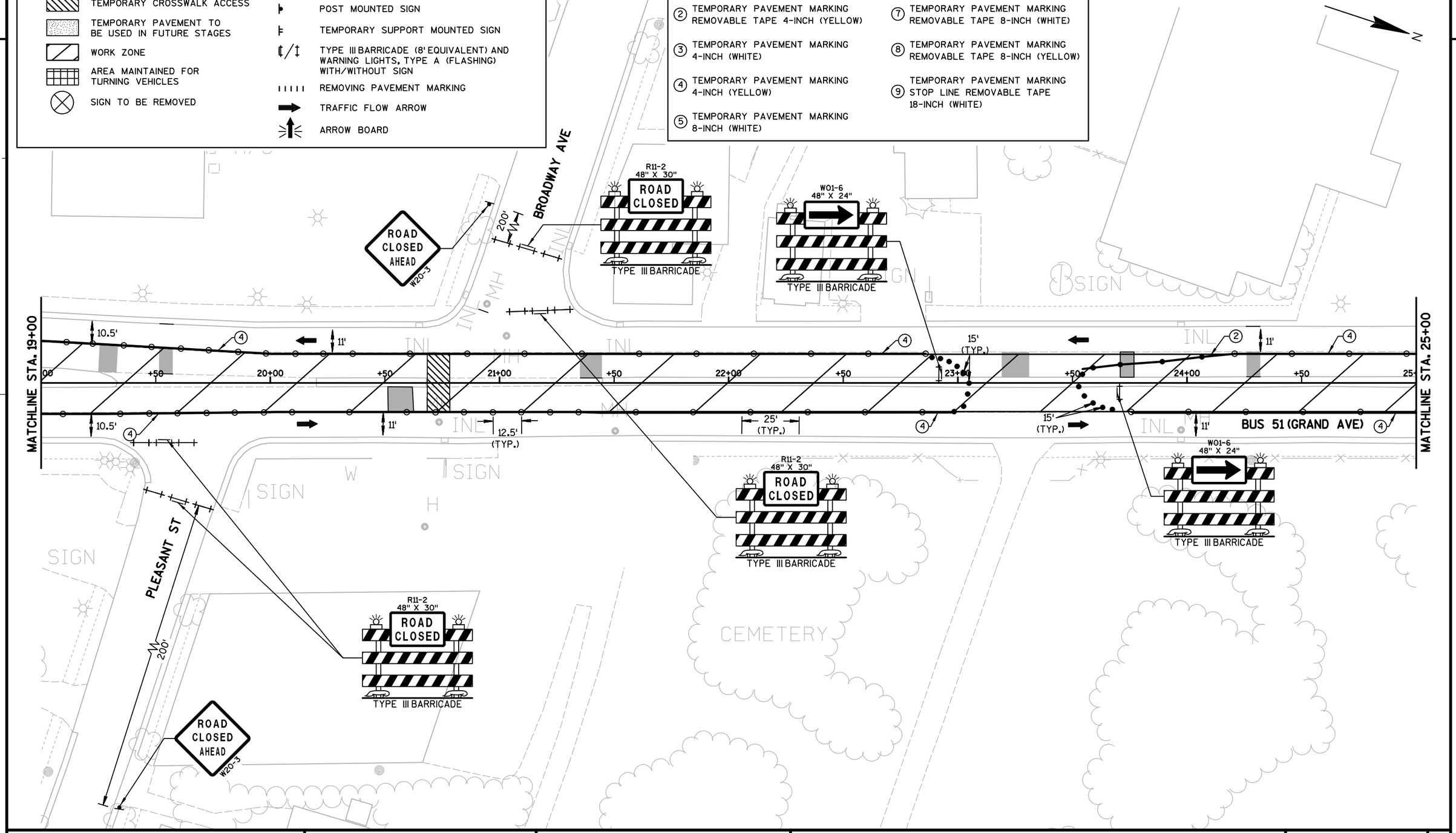
LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

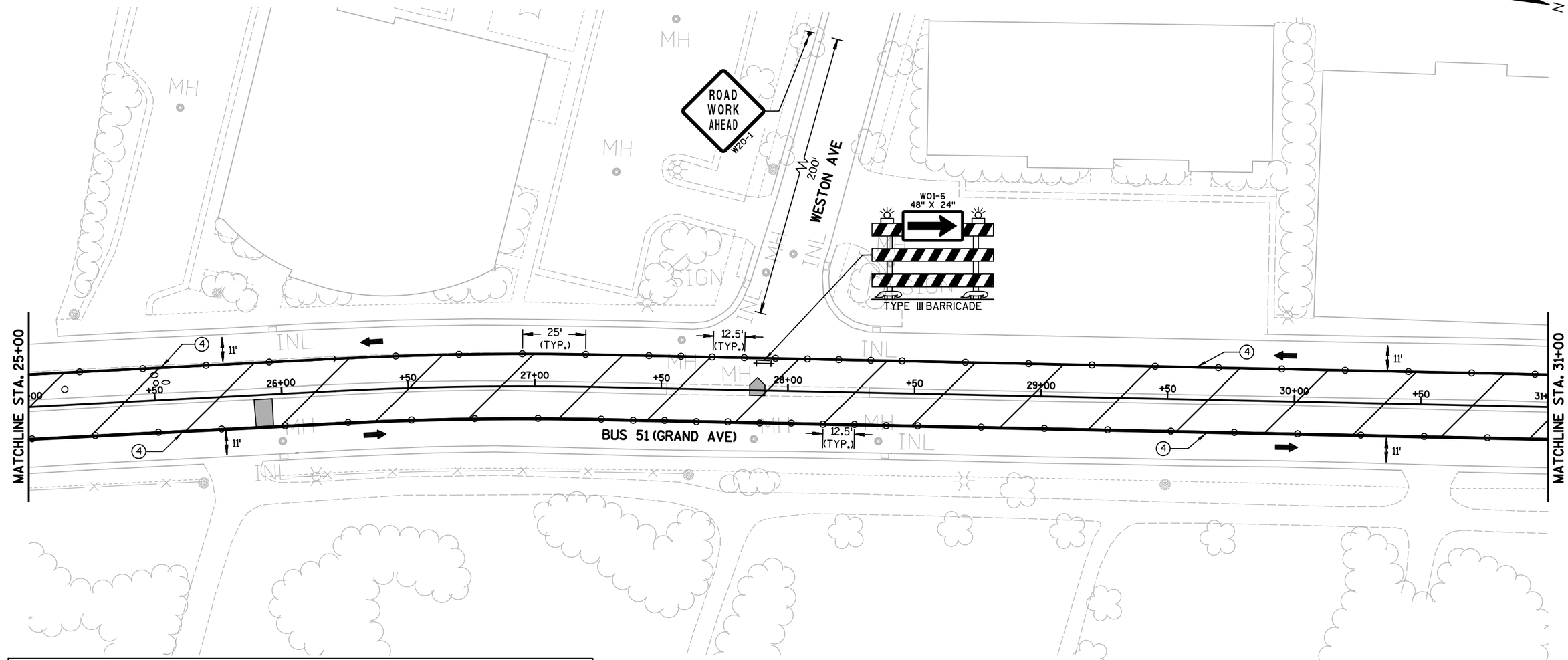
FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\026005_s1.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



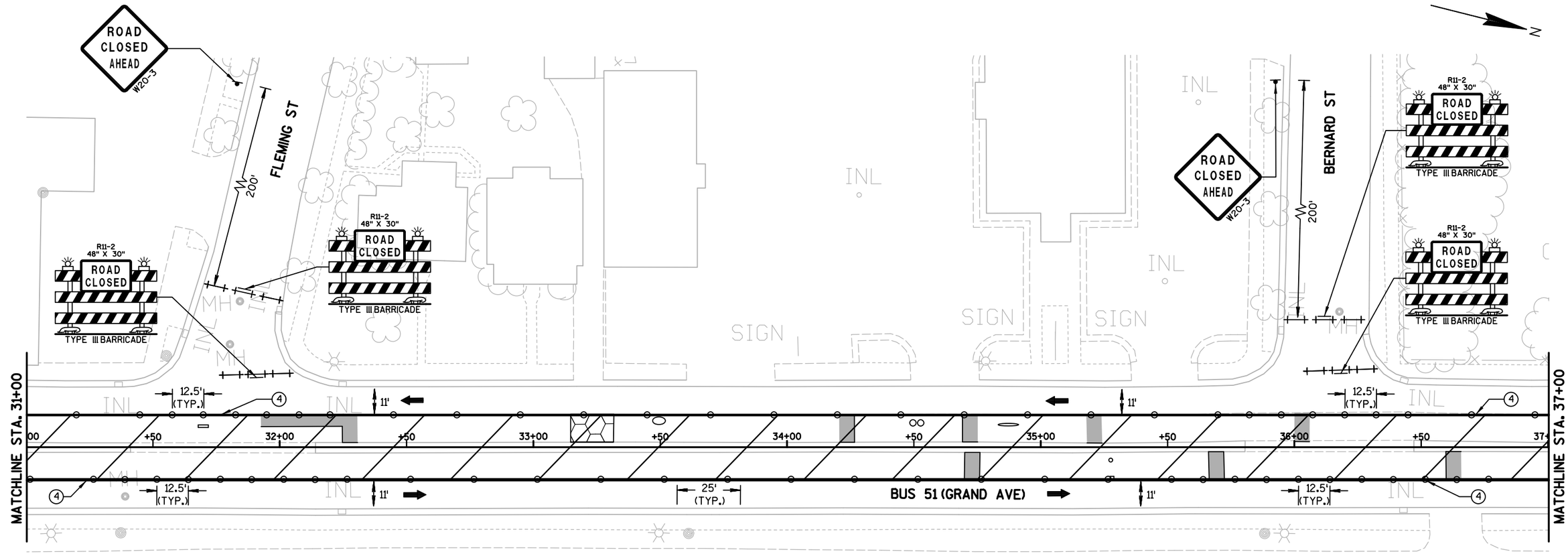
LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

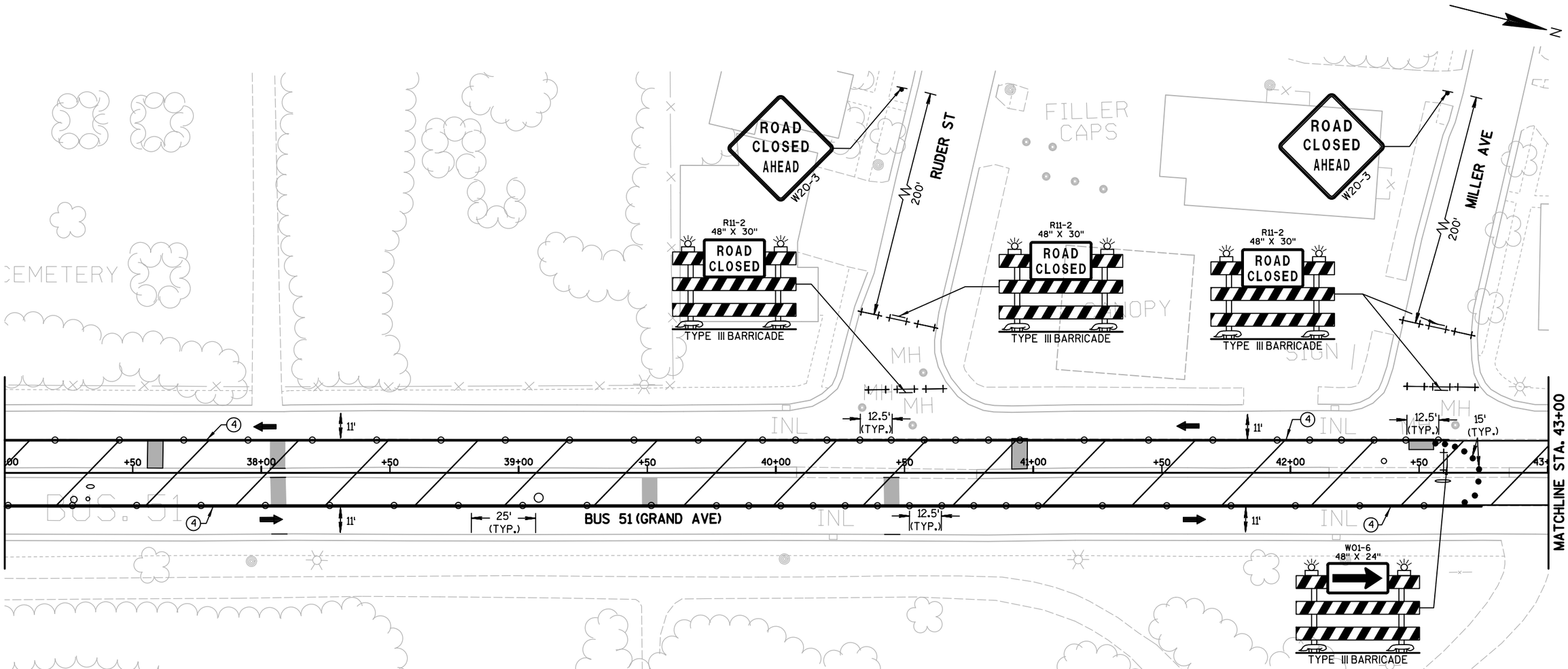
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 78	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

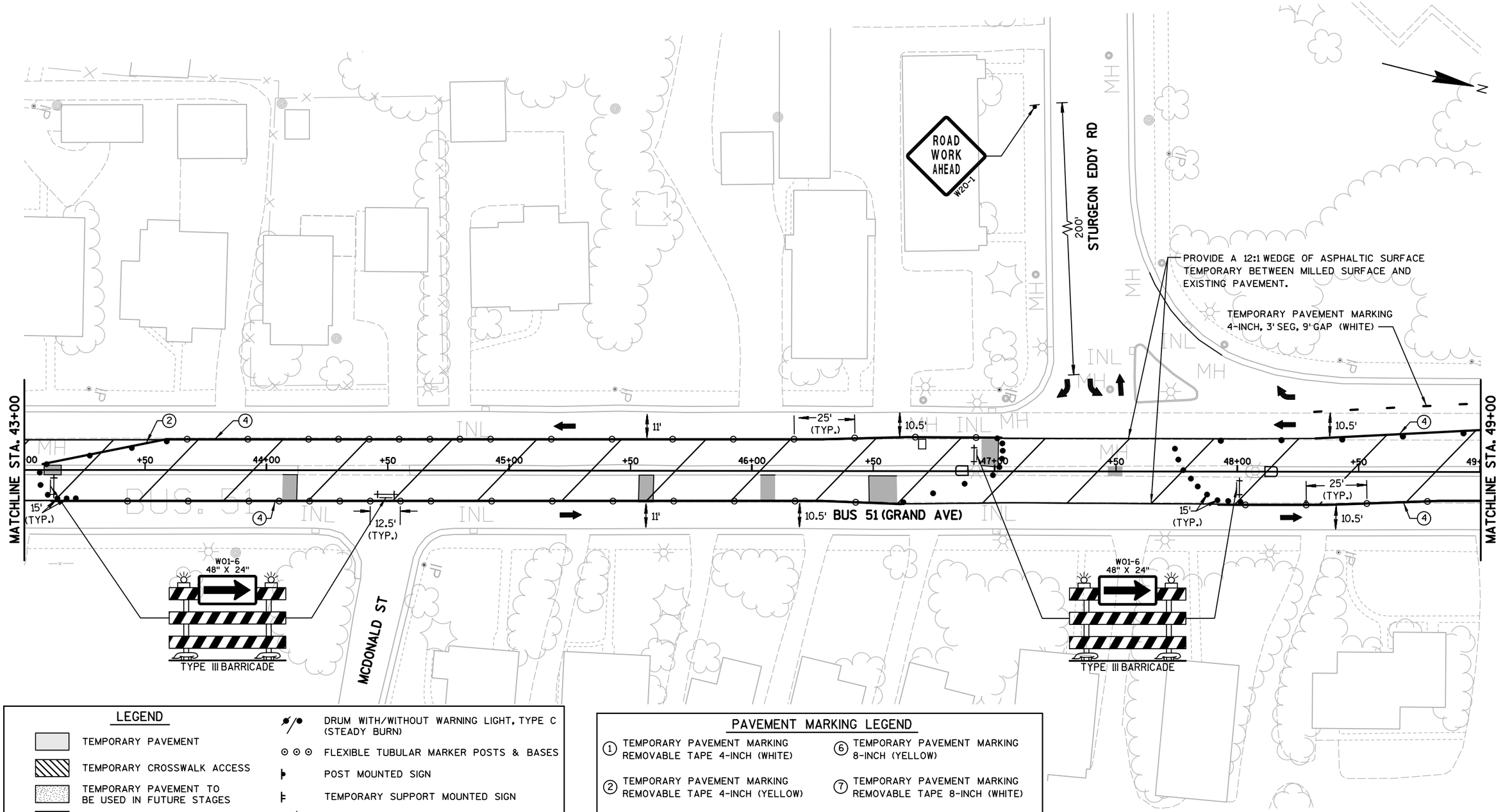
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 79	E

2



LEGEND

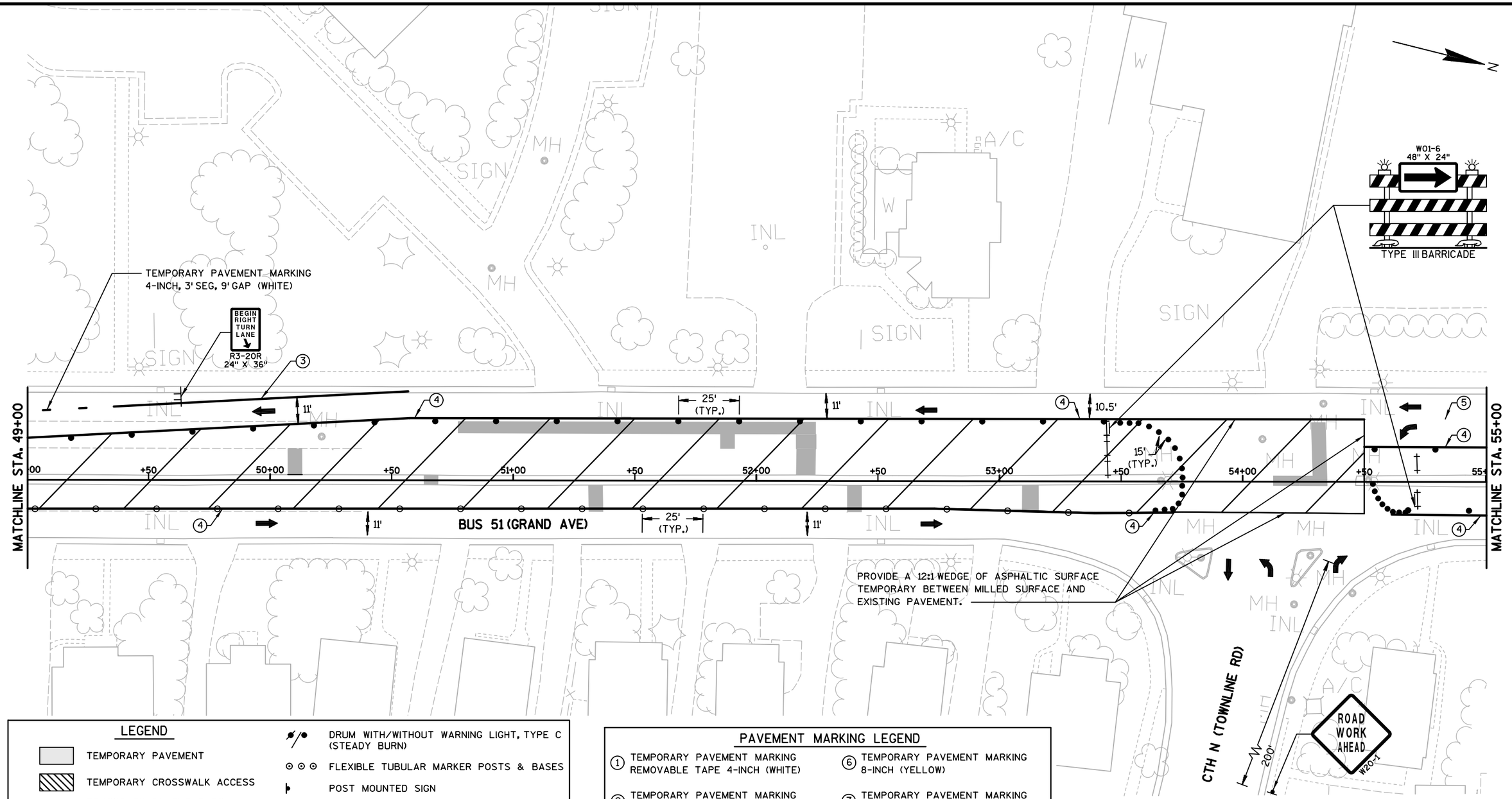
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 80	E

2



LEGEND

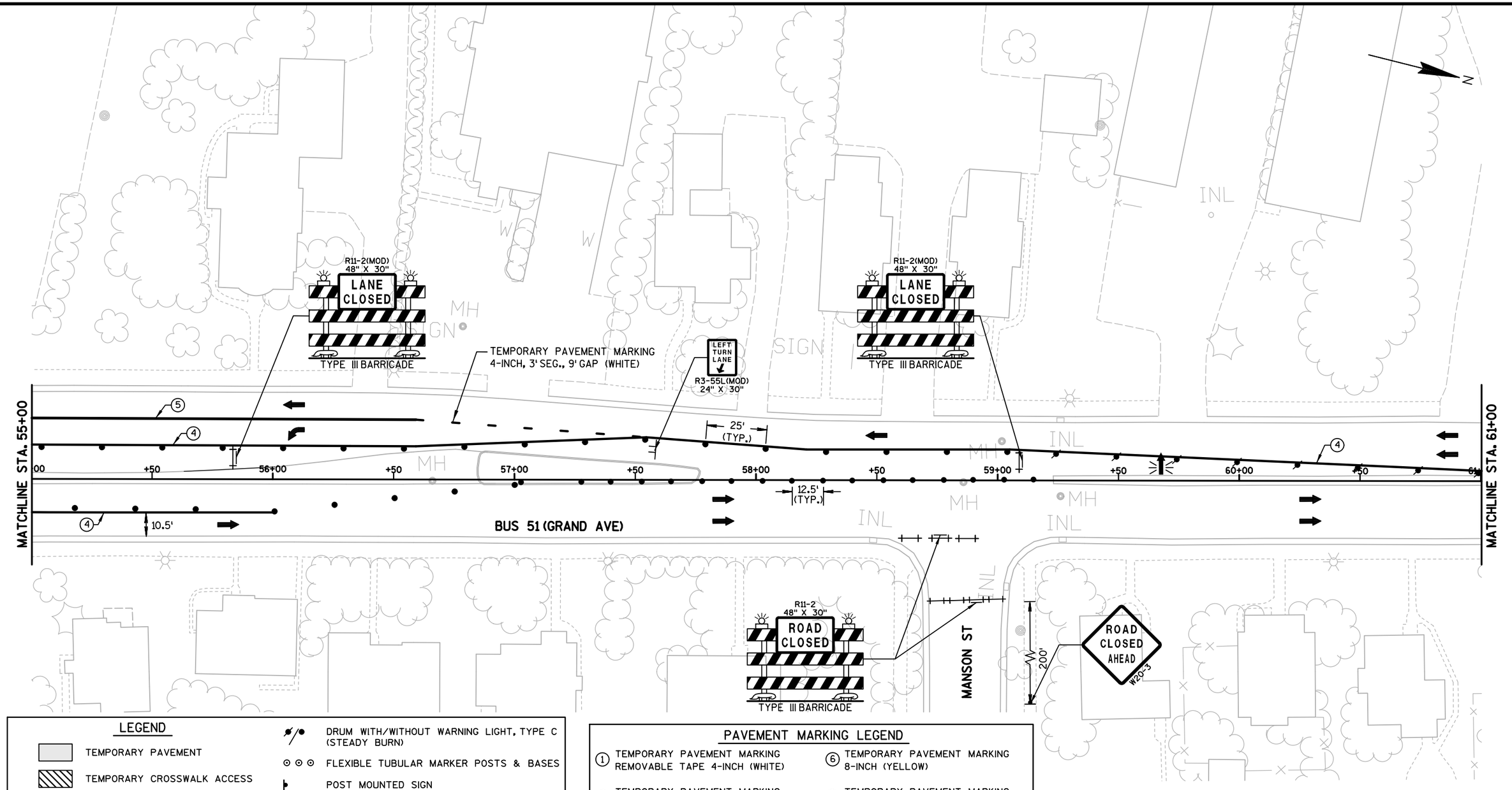
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 81	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

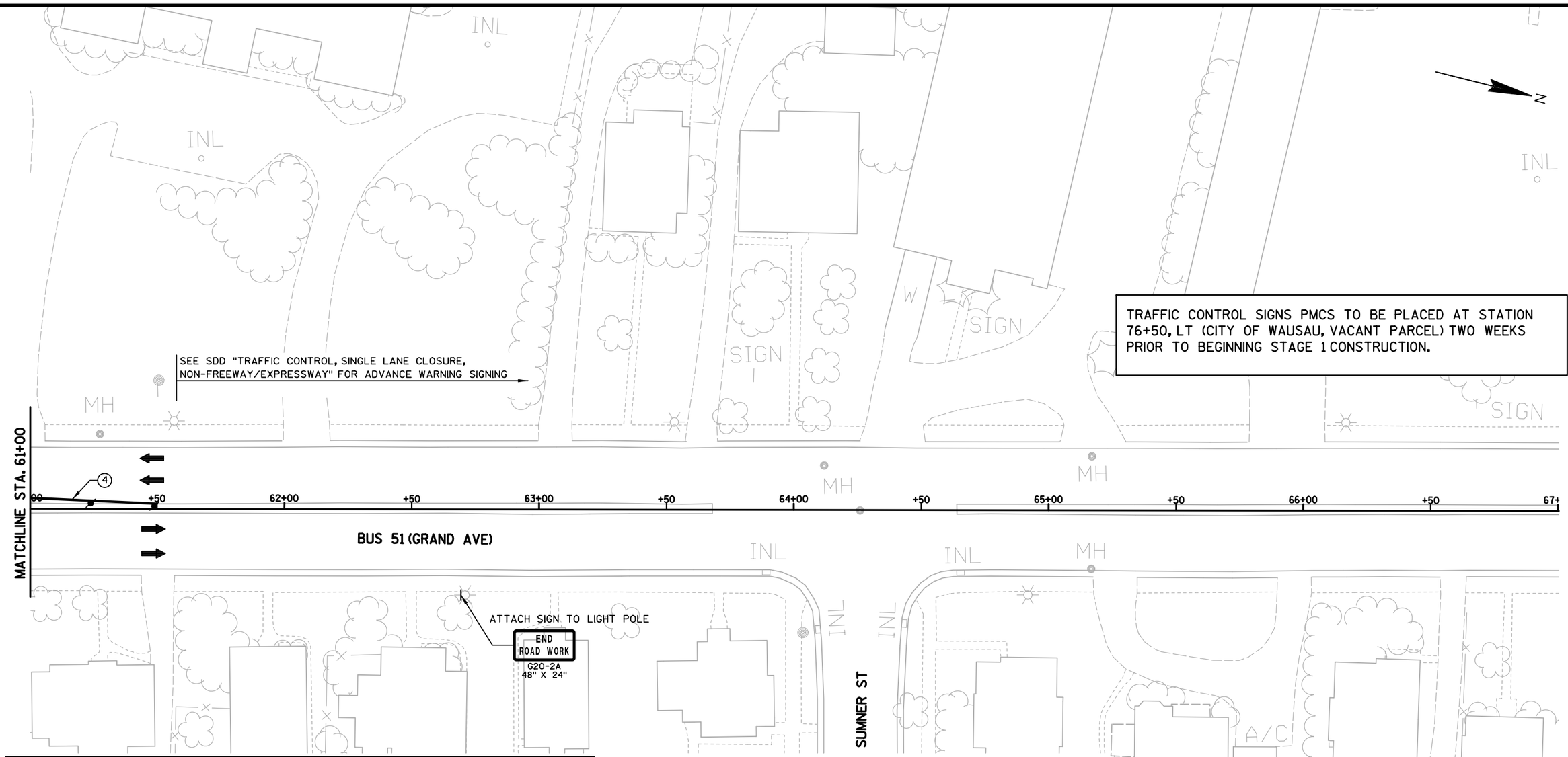
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 82	E

2



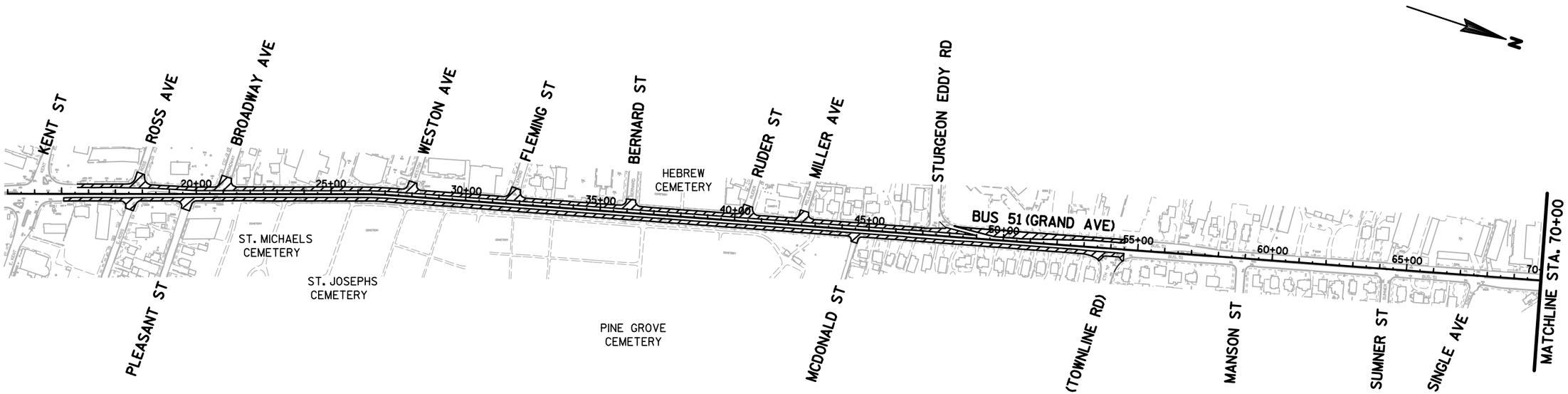
LEGEND

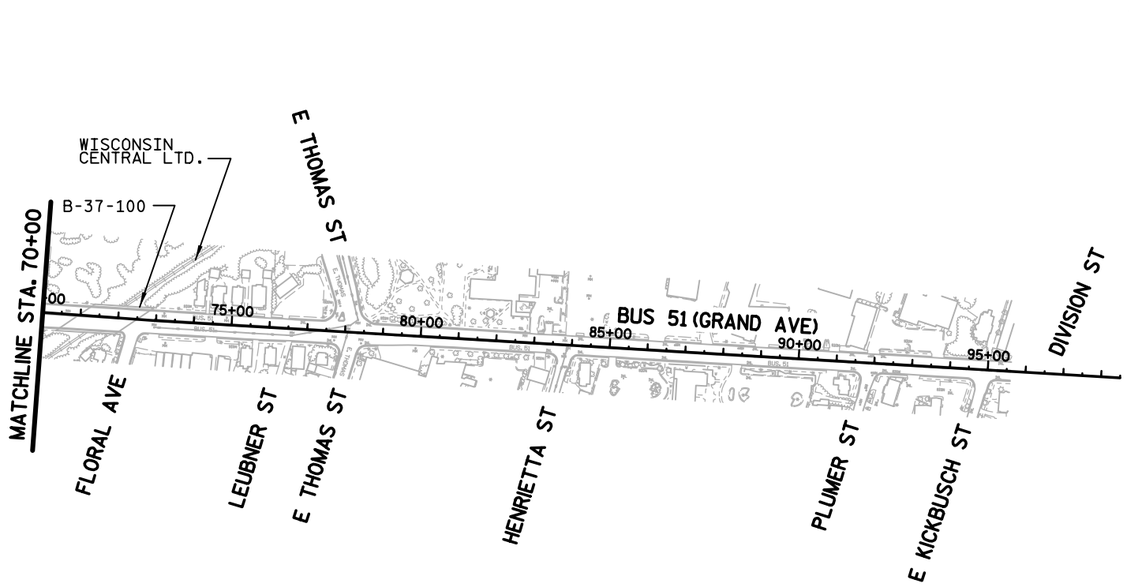
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 1	SHEET 83	E





STAGE 2

PURPOSE:
COMPLETE CONCRETE PAVEMENT REPAIR AND HMA OVERLAY OF THE OUTSIDE LANES OF BUSINESS 51 FROM KENT STREET TO CTH N AND INSTALL STREET LIGHTING.

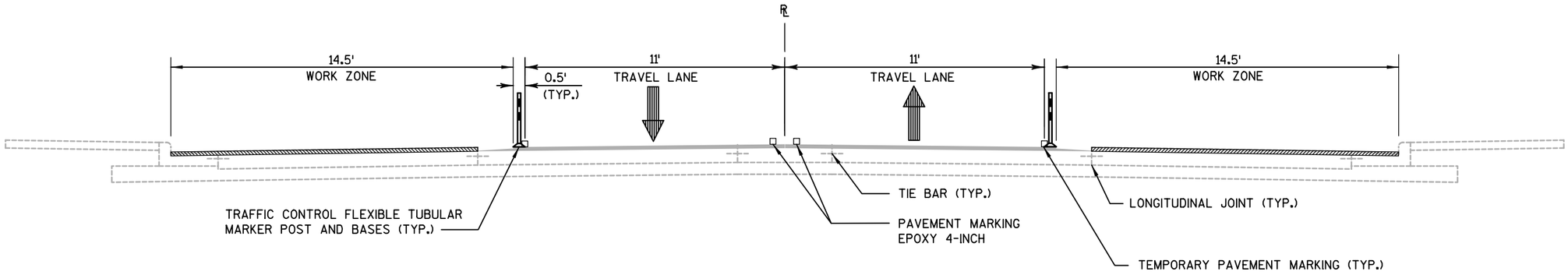
TRAFFIC HANDLING:
TRAFFIC ON BUSINESS 51 SHALL BE ON THE INSIDE LANE OF COMPLETED NORTHBOUND AND SOUTHBOUND PAVEMENT.

RESTRICTIONS:
THE INTERSECTIONS OF KENT STREET, WESTON AVENUE, STURGEON EDDY ROAD, AND CTH N SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. ALL OTHER INTERSECTIONS CAN BE CLOSED DURING STAGE 2 CONSTRUCTION OPERATIONS.

WORK ZONE

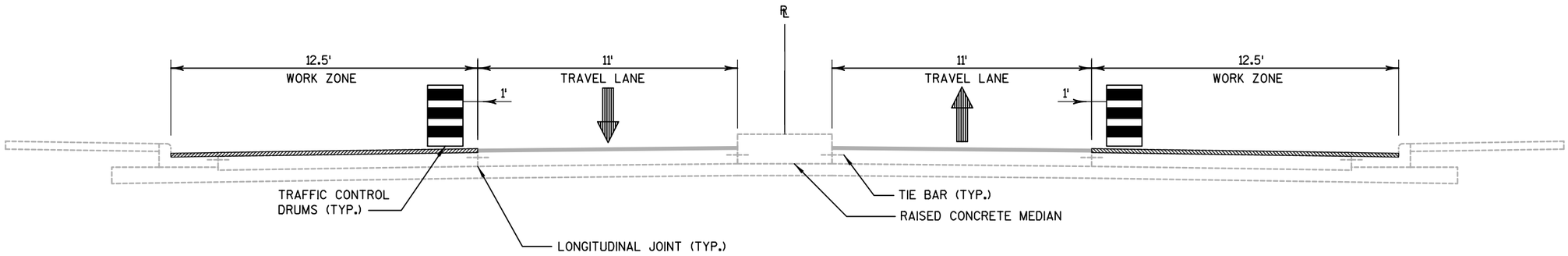
PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2 OVERVIEW	SHEET 84	E

2



TYPICAL SECTION - STAGE 2 (MILLING OPERATIONS)

STA. 15+08 - STA. 54+50



TYPICAL SECTION - STAGE 2 (PAVING OPERATIONS)

STURGEON EDDY ROAD
TOWNLINE ROAD

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 2 TYPICAL SECTIONS	SHEET 85	E

2

2

TRAFFIC CONTROL SIGNS PCMS TO BE INSTALLED TWO WEEKS PRIOR TO BEGINNING STAGE 2 CONSTRUCTION.

SEE DETAILS FOR STAGE 2 CONSTRUCTION

LAKE VIEW CT

ETHEL ST

EAU CLAIRE BLVD

KENT ST

N

END ROAD WORK
G20-2A
48" X 24"

TRAFFIC CONTROL SIGNS PCMS REQ'D

MB

BUS 51 (GRAND AVE)

700'

700'

350'

25' (TYP.)

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

BEGIN RIGHT TURN LANE
R3-2OR
24" X 36"

TEMPORARY PAVEMENT MARKING REMOVABEL TAPE 8-INCH (WHITE)

SEE OVERHEAD SIGN SUPPORT DETAIL FOR COVERING OF SIGNS

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

225' TAPER

120' BUFFER

R11-2(MOD)
48" X 30"

LANE CLOSED

TYPE III BARRICADE

ROAD WORK AHEAD
W20-1

RIGHT LANE CLOSED AHEAD
W20-5

W04-2R

E KENT ST

E ROSS AVE

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

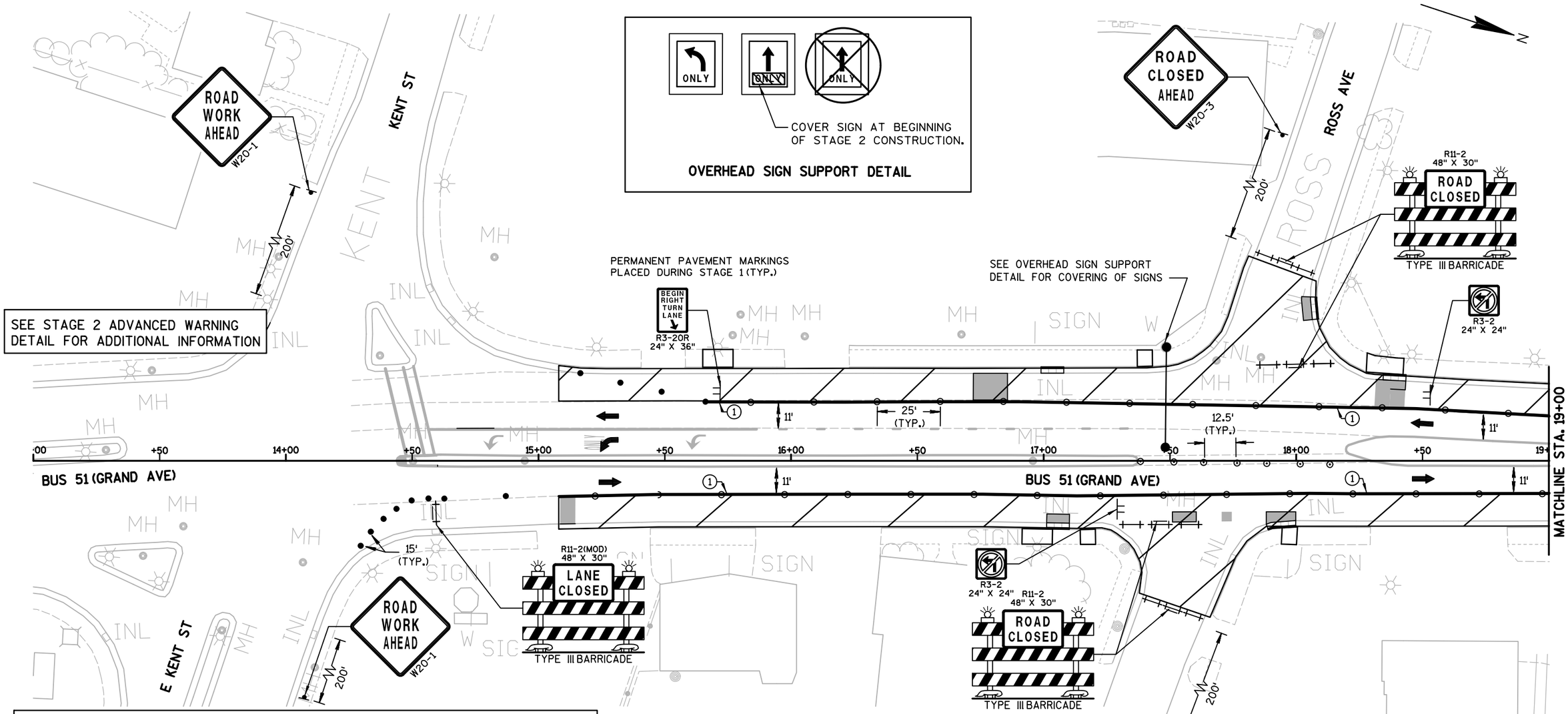
ONLY ONLY ONLY

TRAFFIC CONTROL COVERING SIGNS TYPE II REQ'D

OVERHEAD SIGN SUPPORT DETAIL

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2 ADVANCED WARNING	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\026202_s2.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

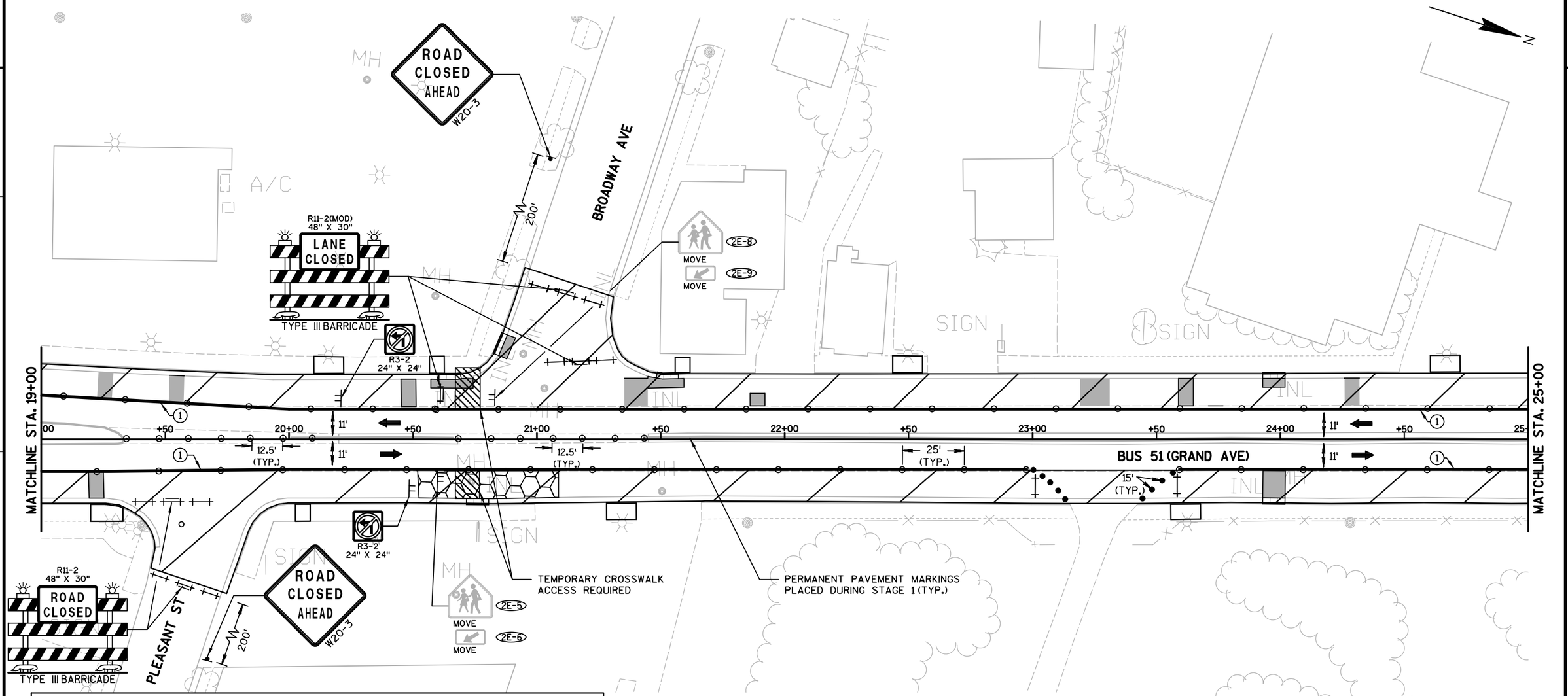
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET 87	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

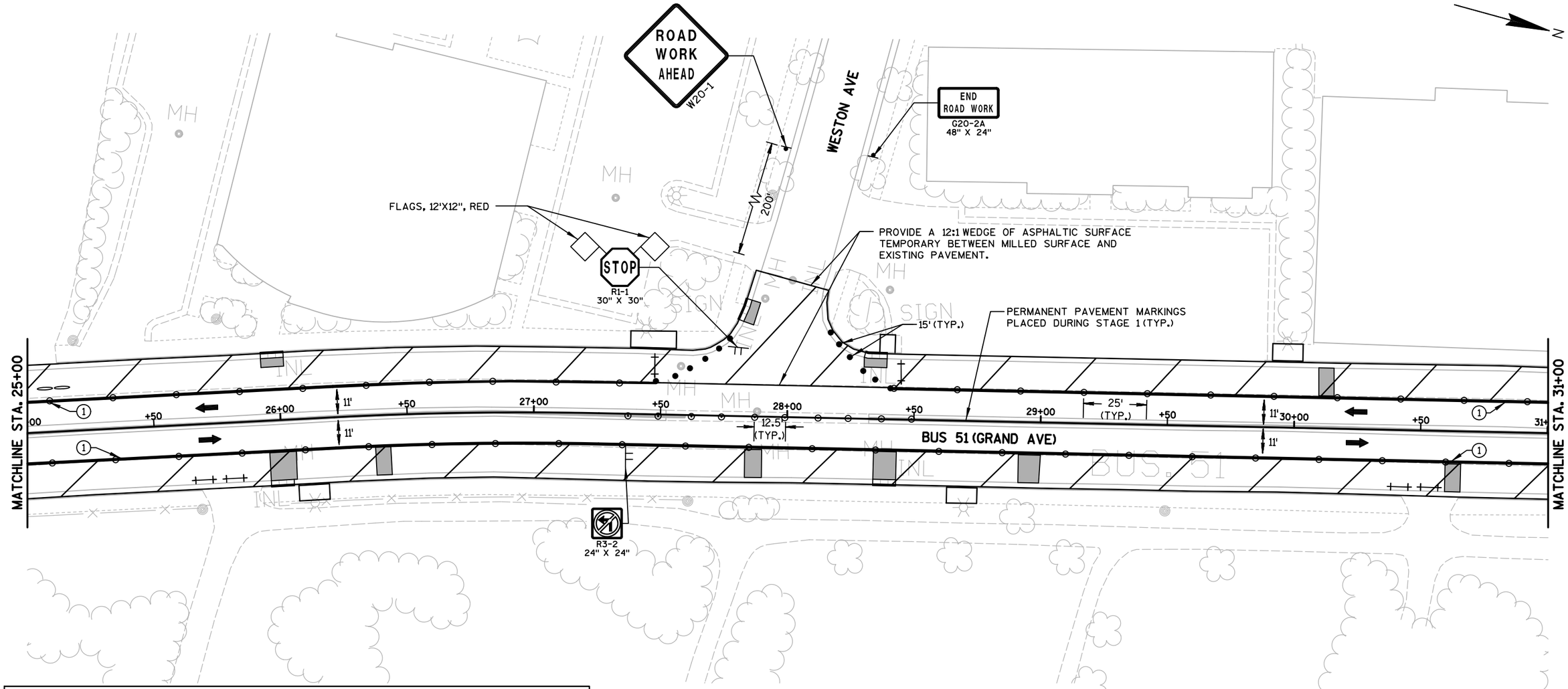
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET 88	E

2



LEGEND

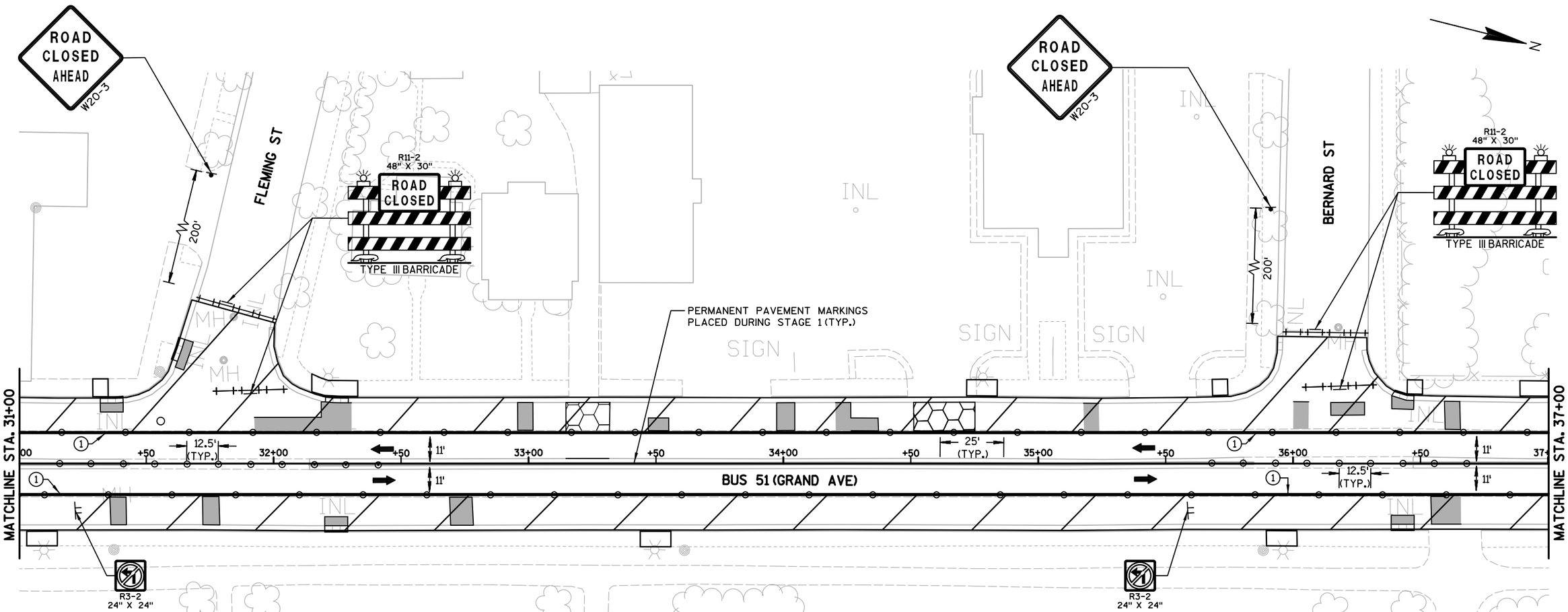
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET 89	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

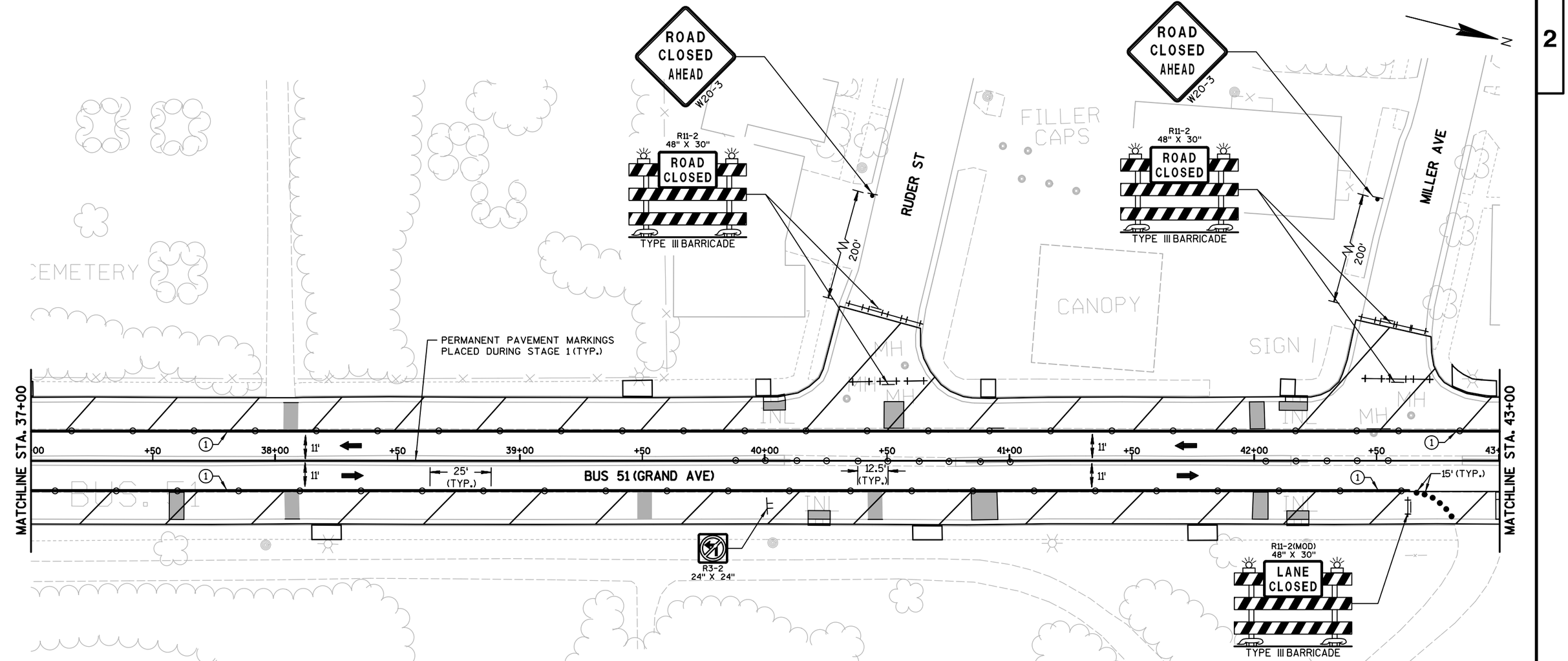
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET 90	E

2



LEGEND

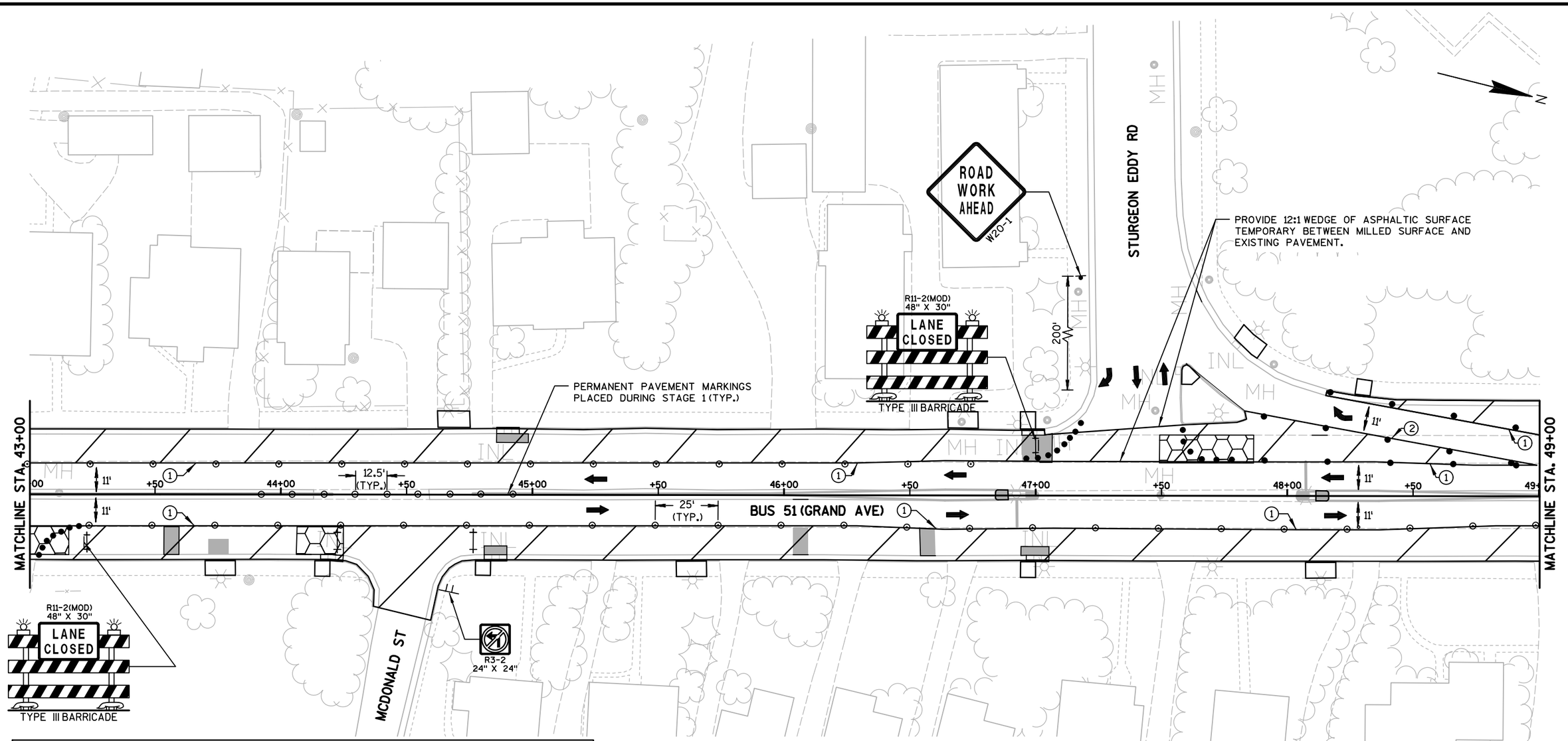
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

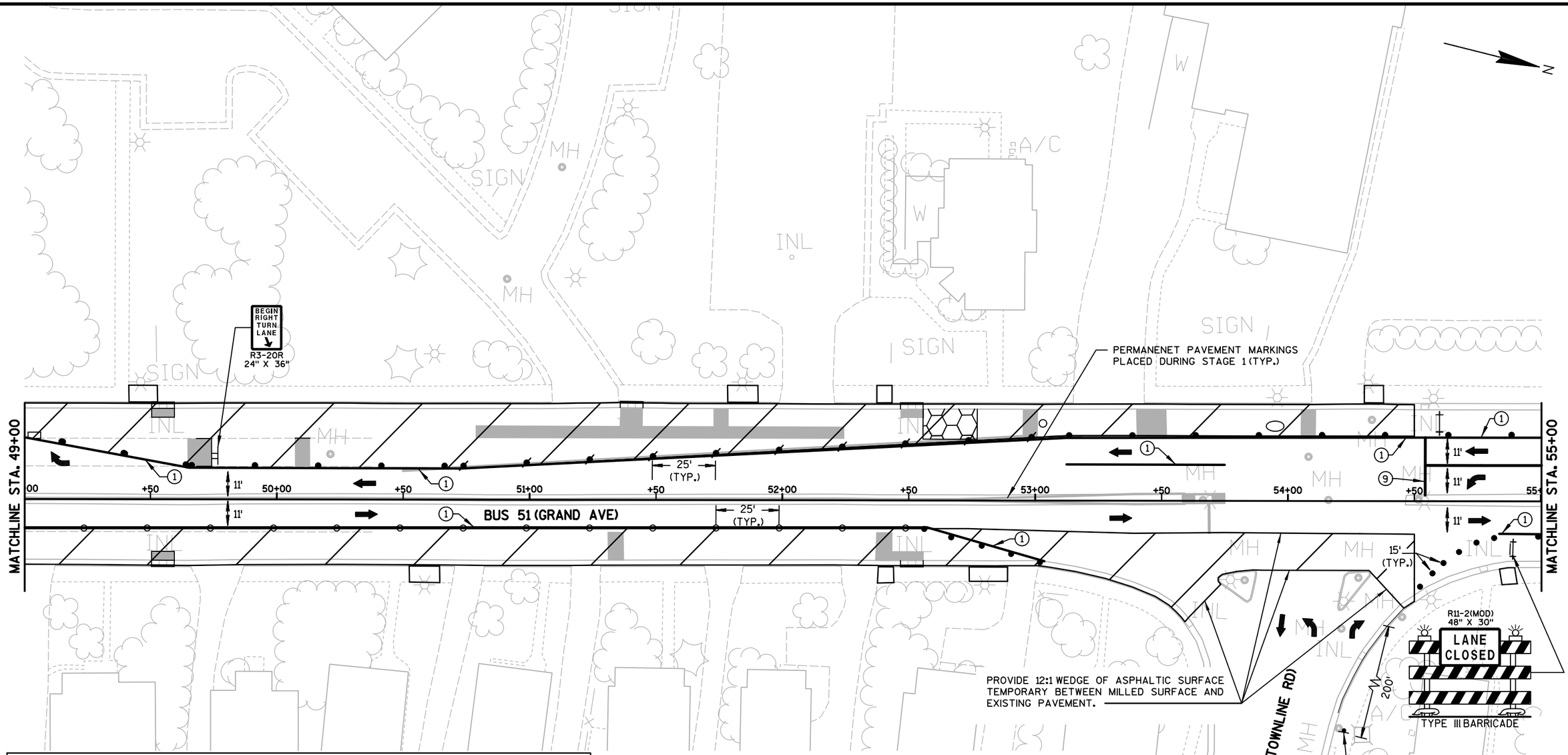
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\026208_s2.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



LEGEND

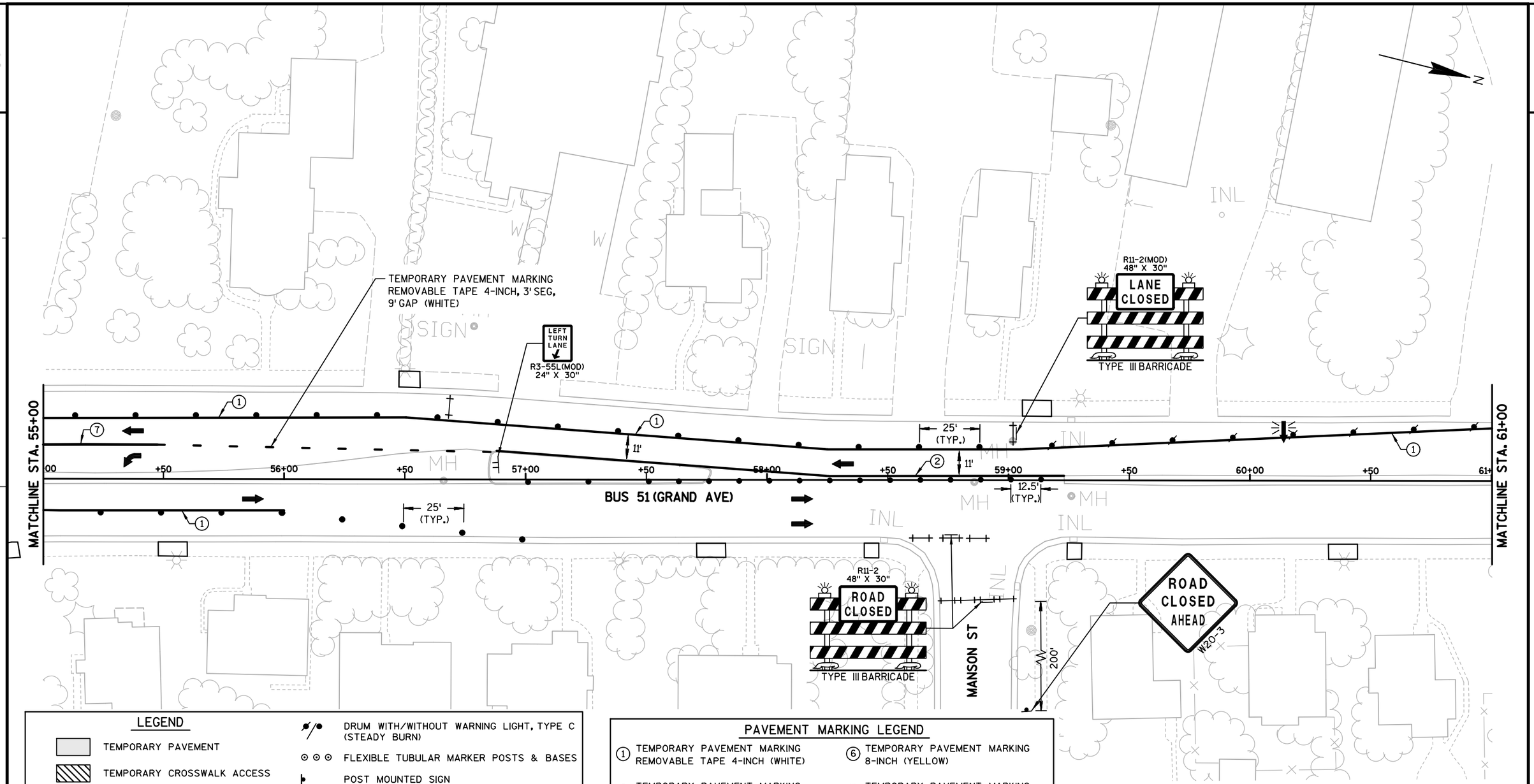
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET 93	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

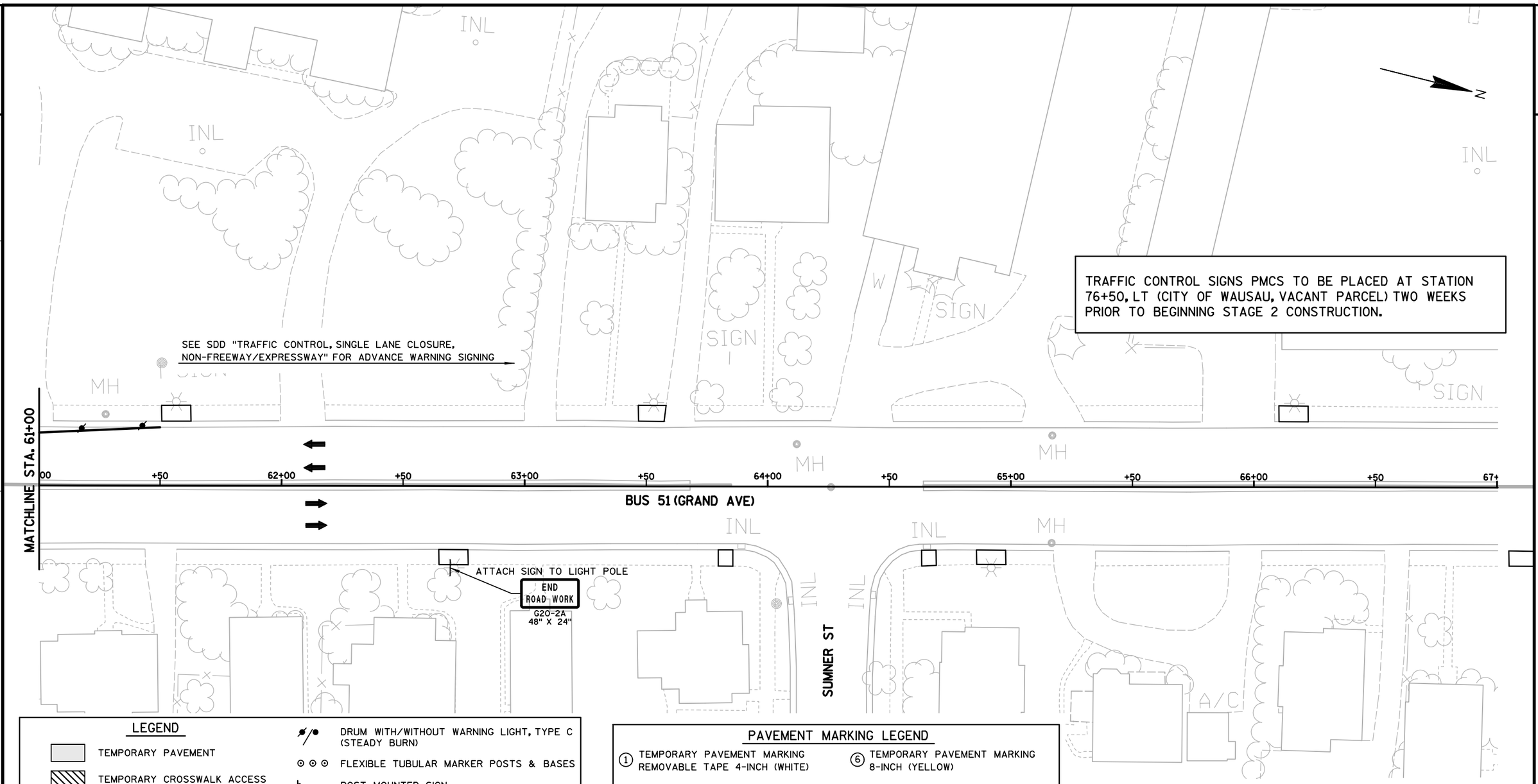
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET 94	E

2



LEGEND

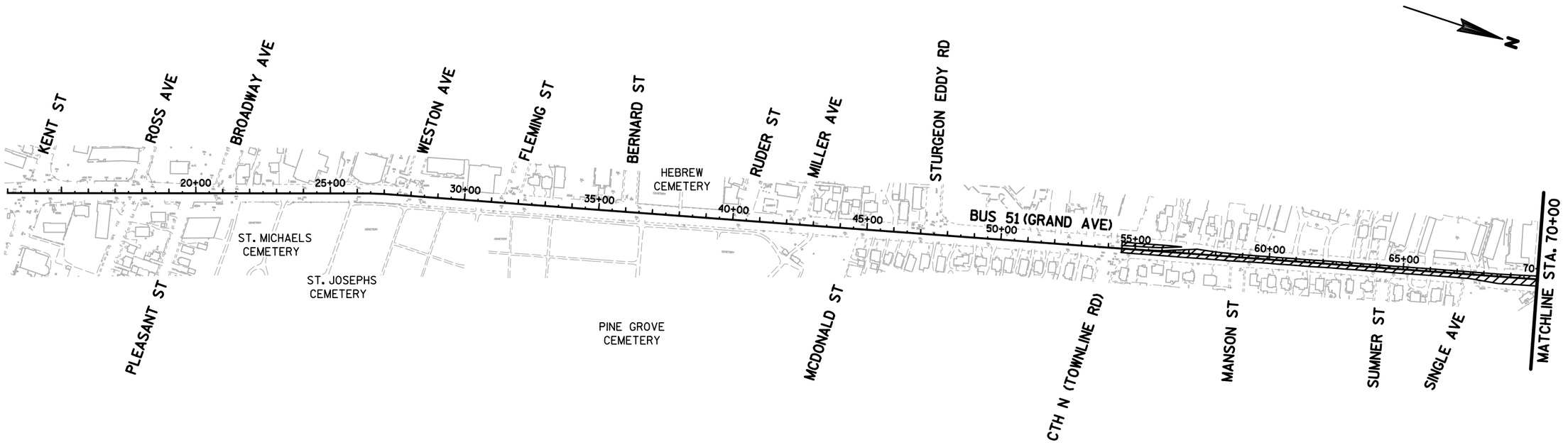
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

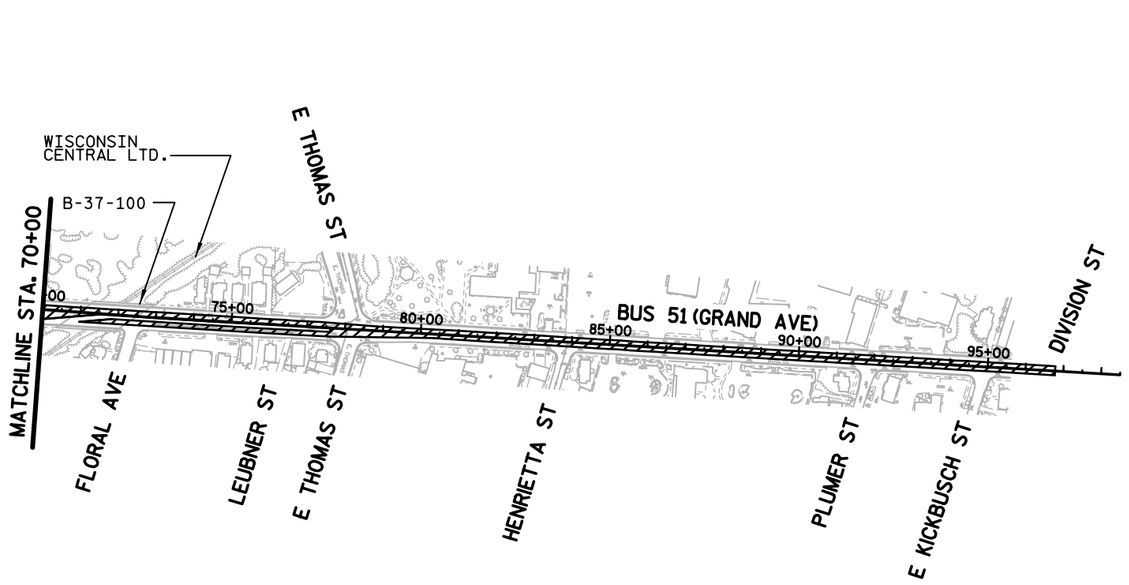
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 2	SHEET 95	E

2





STAGE 3

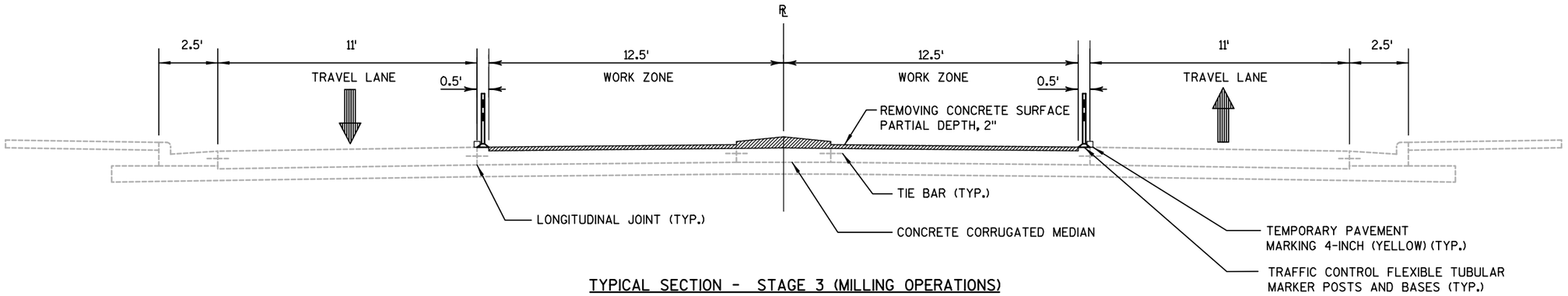
PURPOSE:
COMPLETE CONCRETE PAVEMENT REPAIR AND HMA OVERLAY OF THE INSIDE LANES OF BUSINESS 51 FROM CTH N TO DIVISION STREET.

TRAFFIC HANDLING:
TRAFFIC ON BUSINESS 51 SHALL BE ON THE OUTSIDE LANE OF EXISTING NORTHBOUND AND SOUTHBOUND PAVEMENT.

RESTRICTIONS:
THE INTERSECTIONS OF STURGEON EDDY ROAD, CTH N, SINGLE AVENUE, AND EAST THOMAS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. ALL OTHER INTERSECTIONS CAN BE CLOSED DURING STAGE 3 CONSTRUCTION OPERATIONS.

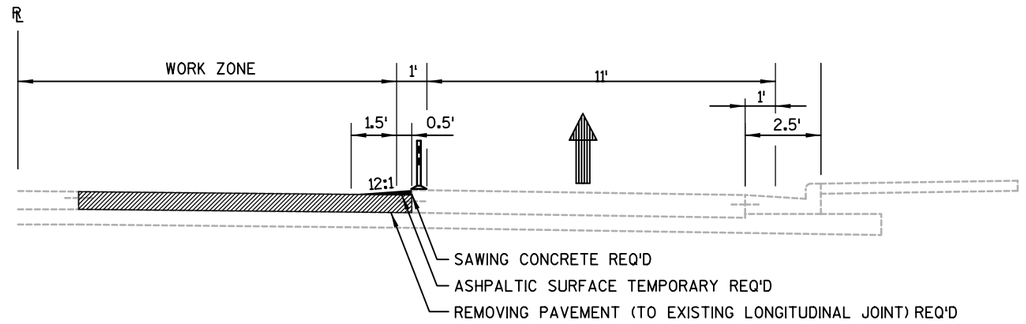
WORK ZONE

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3 OVERVIEW	SHEET 96	E



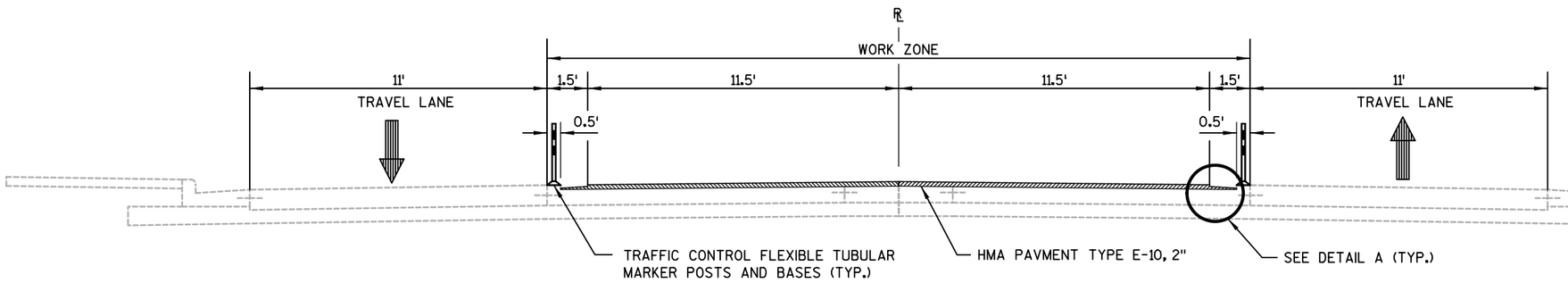
TYPICAL SECTION - STAGE 3 (MILLING OPERATIONS)

STA. 54+50 - STA. 96+45



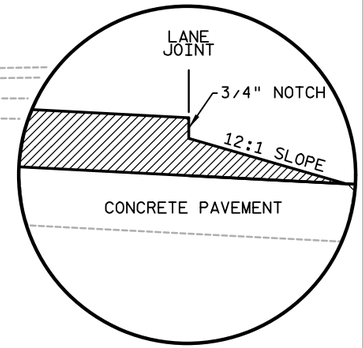
REMOVAL LIMITS IN AREAS OF PAVEMENT REPAIR

(REVERSE FOR SOUTHBOUND BUS 51)



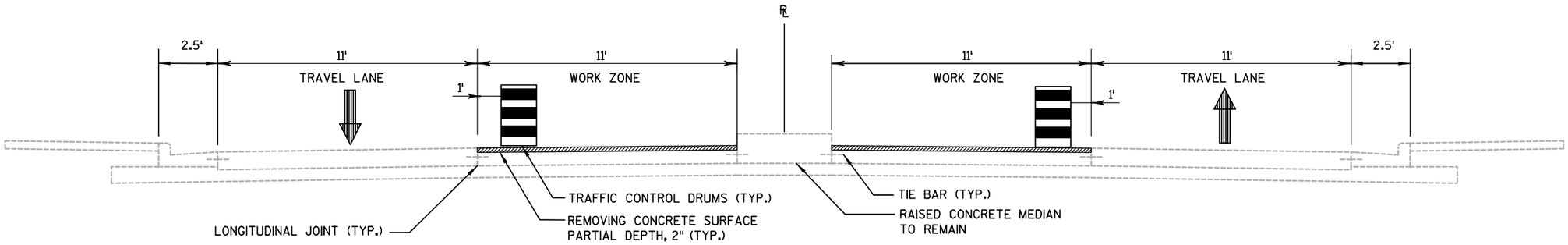
TYPICAL SECTION - STAGE 3 (PAVING OPERATIONS)

STA. 54+50 - STA. 96+45



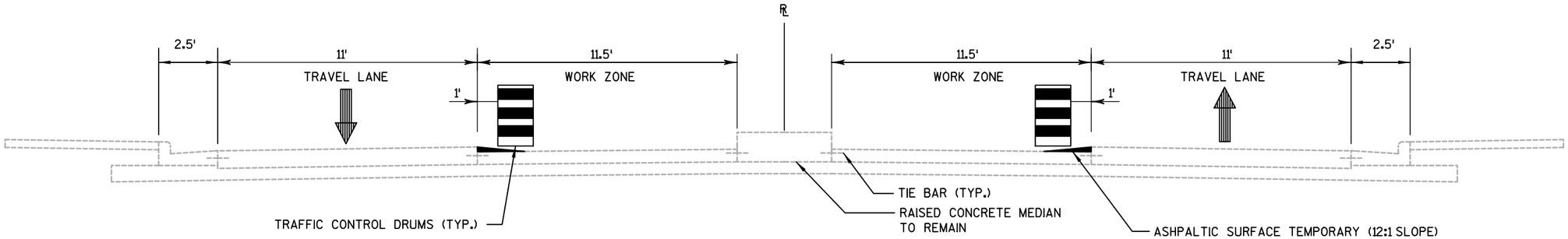
DETAIL A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 3 TYPICAL SECTIONS	SHEET 97	E



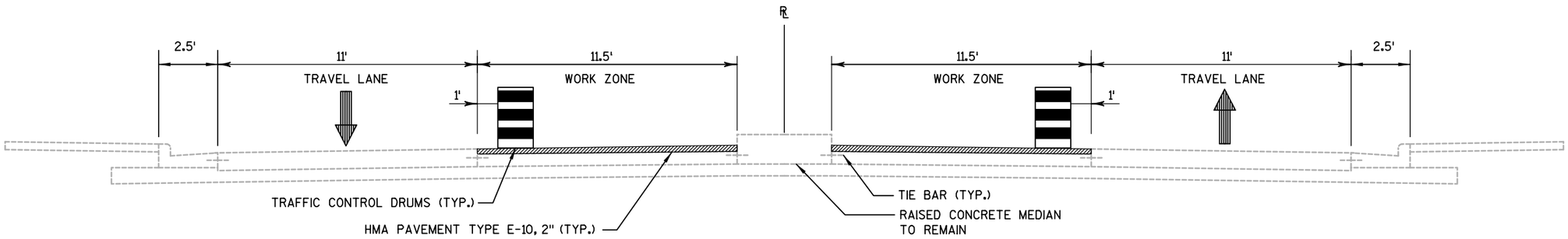
TYPICAL SECTION - STAGE 3 (MILLING OPERATIONS)

TOWNLINE ROAD
EAST THOMAS STREET



TYPICAL SECTION - STAGE 3

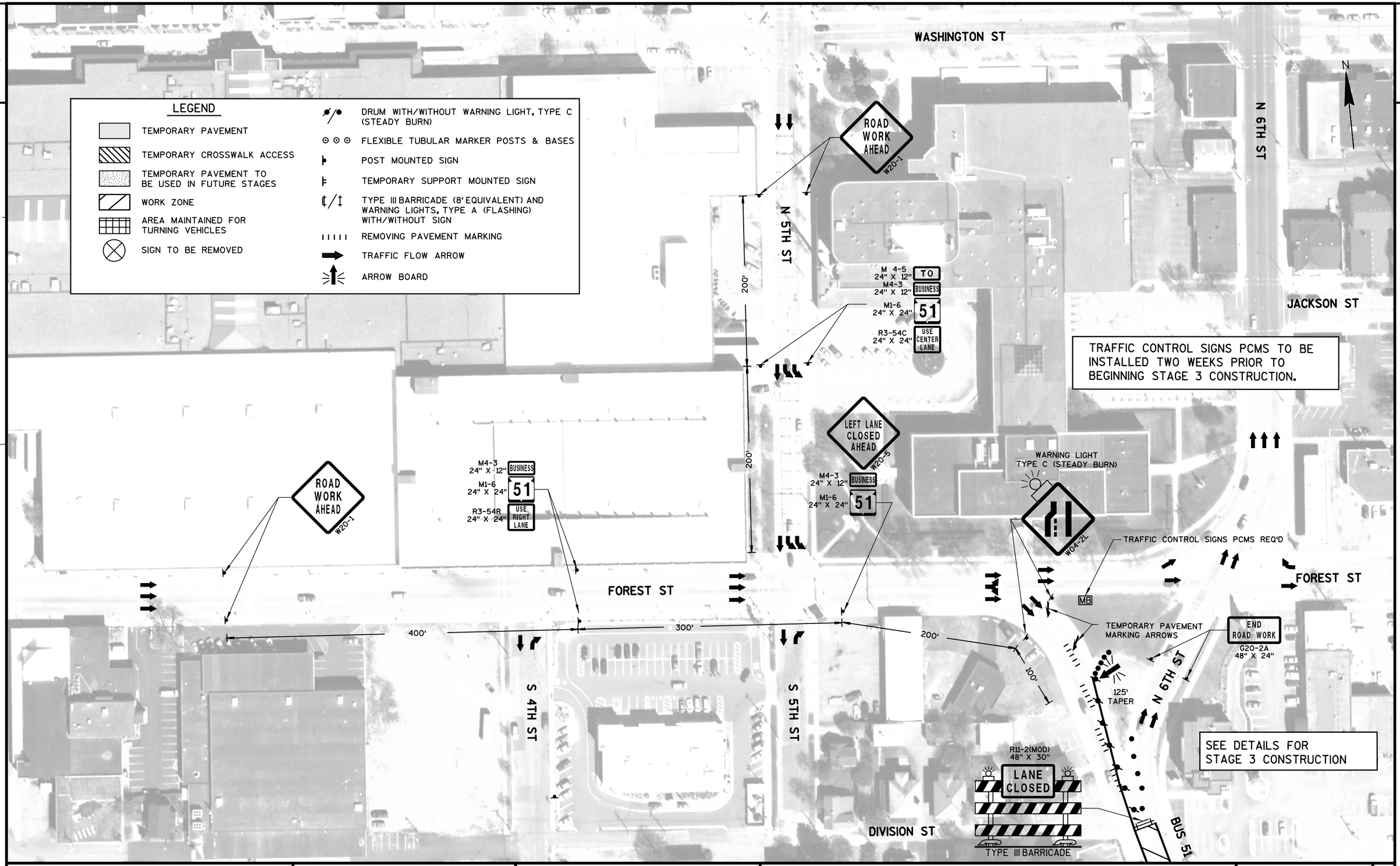
TOWNLINE ROAD
EAST THOMAS STREET



TYPICAL SECTION - STAGE 3 (PAVING OPERATIONS)

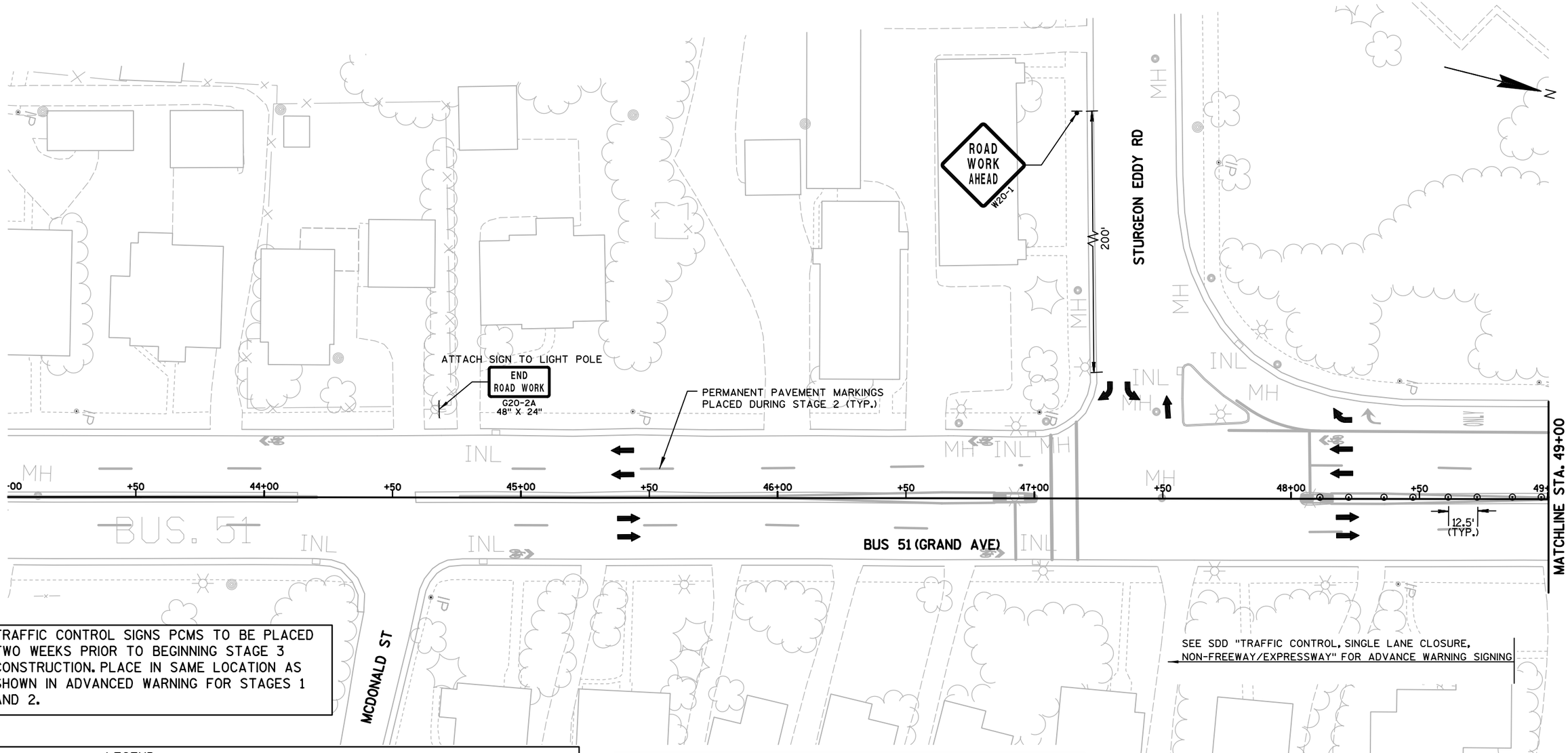
TOWNLINE ROAD
EAST THOMAS STREET

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 3 TYPICAL SECTIONS	SHEET 98	E



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3 ADVANCED WARNING	SHEET 99	E

2



TRAFFIC CONTROL SIGNS PCMS TO BE PLACED TWO WEEKS PRIOR TO BEGINNING STAGE 3 CONSTRUCTION. PLACE IN SAME LOCATION AS SHOWN IN ADVANCED WARNING FOR STAGES 1 AND 2.

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET 100	E

2

N

PERMANENT PAVEMENT MARKINGS PLACED DURING STAGE 2 (TYP.)

MATCHLINE STA. 49+00

MATCHLINE STA. 55+00

BUS 51 (GRAND AVE)

25' (TYP.)

13'

15' (TYP.)

W01-6
48" X 24"
TYPE III BARRICADE

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48" X 24"

CTH N (TOWNLINE RD)

200'

ROAD WORK AHEAD
W20-1

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

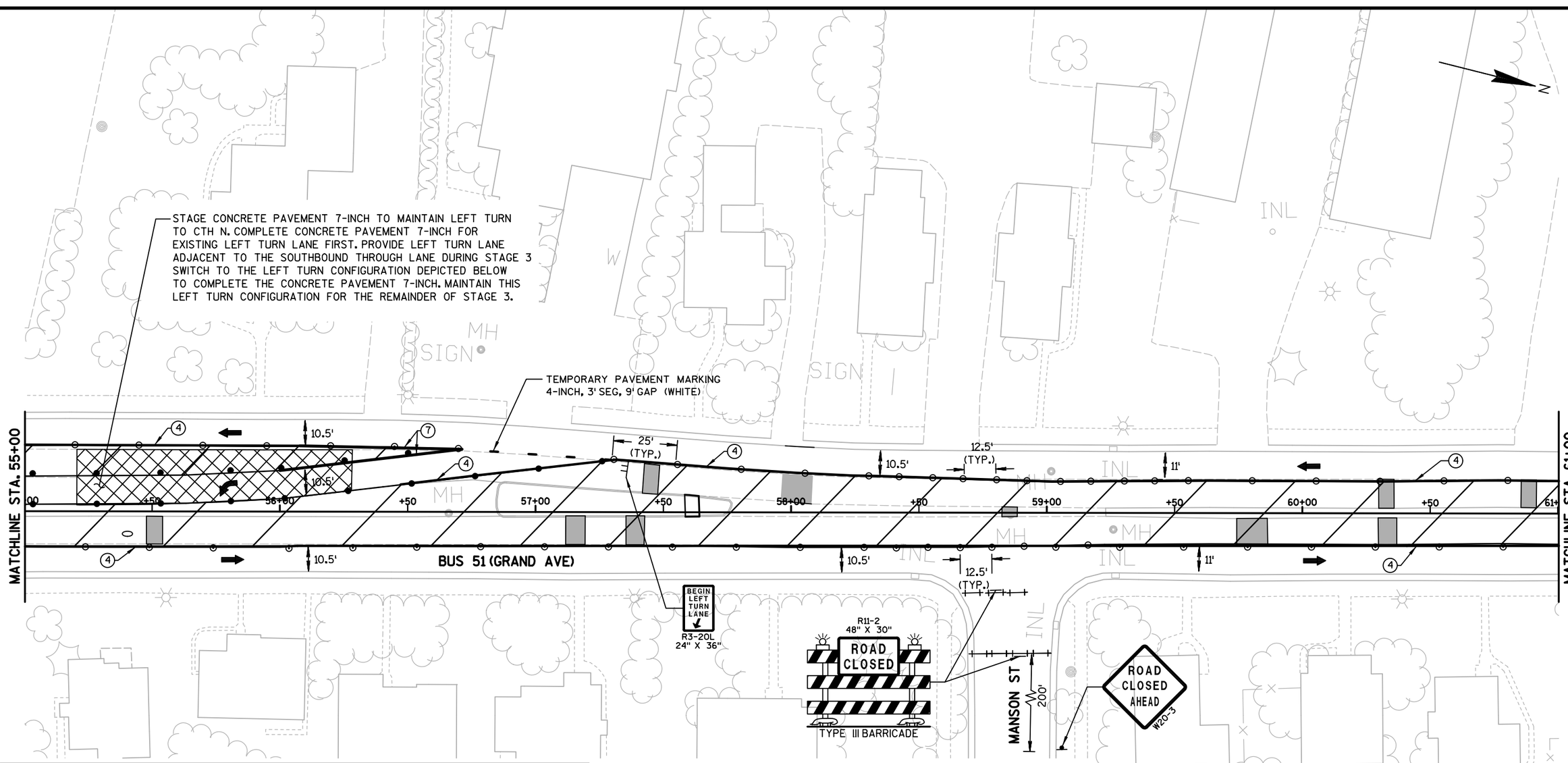
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET 101 E

STAGE CONCRETE PAVEMENT 7-INCH TO MAINTAIN LEFT TURN TO CTH N. COMPLETE CONCRETE PAVEMENT 7-INCH FOR EXISTING LEFT TURN LANE FIRST. PROVIDE LEFT TURN LANE ADJACENT TO THE SOUTHBOUND THROUGH LANE DURING STAGE 3 SWITCH TO THE LEFT TURN CONFIGURATION DEPICTED BELOW TO COMPLETE THE CONCRETE PAVEMENT 7-INCH. MAINTAIN THIS LEFT TURN CONFIGURATION FOR THE REMAINDER OF STAGE 3.

TEMPORARY PAVEMENT MARKING
4-INCH, 3' SEG, 9' GAP (WHITE)



LEGEND

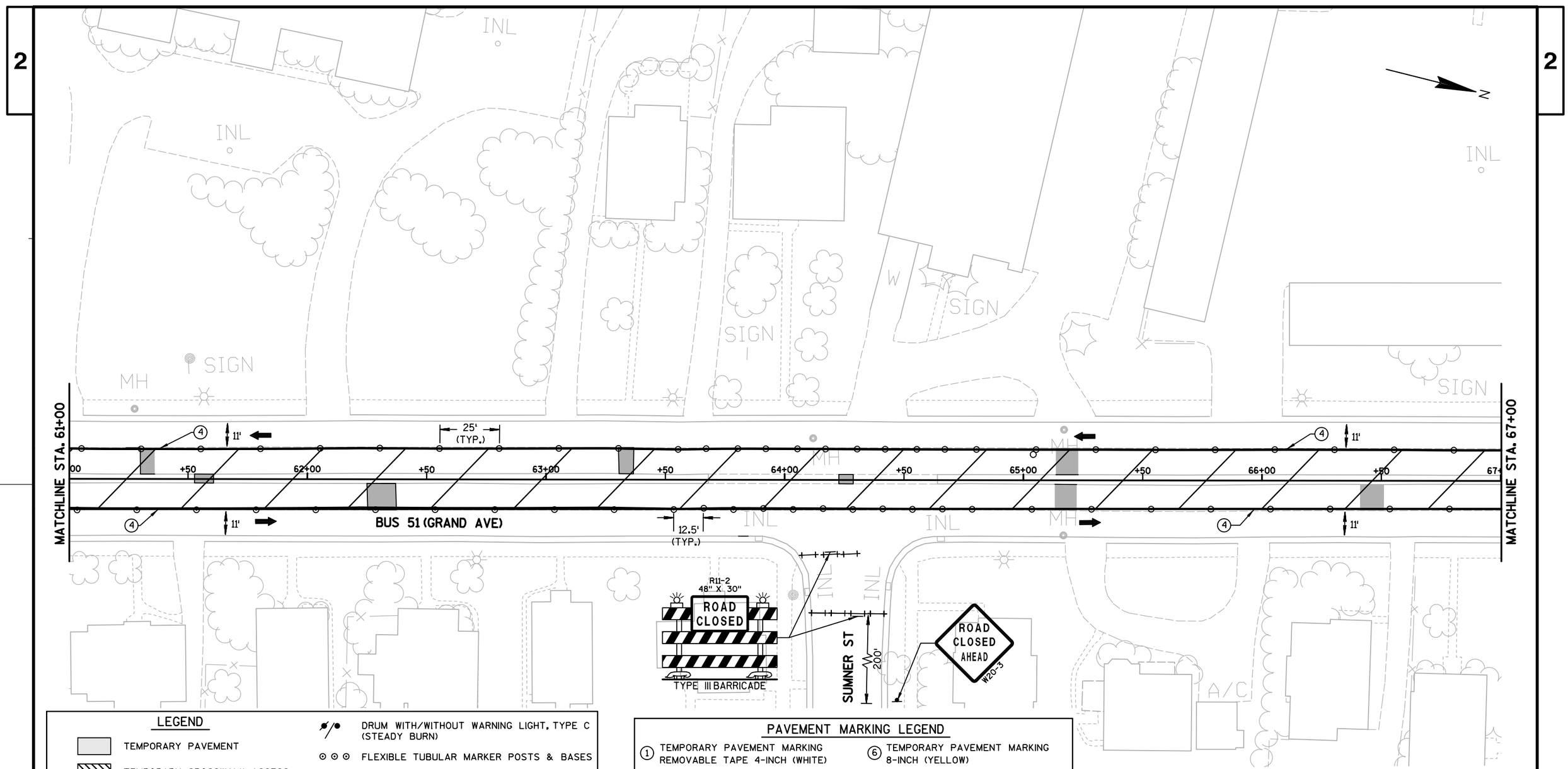
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

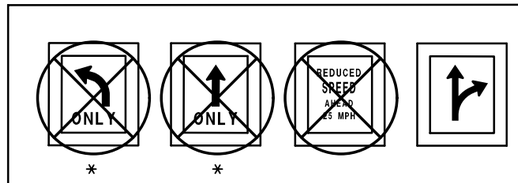
1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET 102	E

2

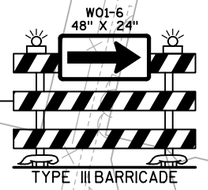

N
INL
INL
INL

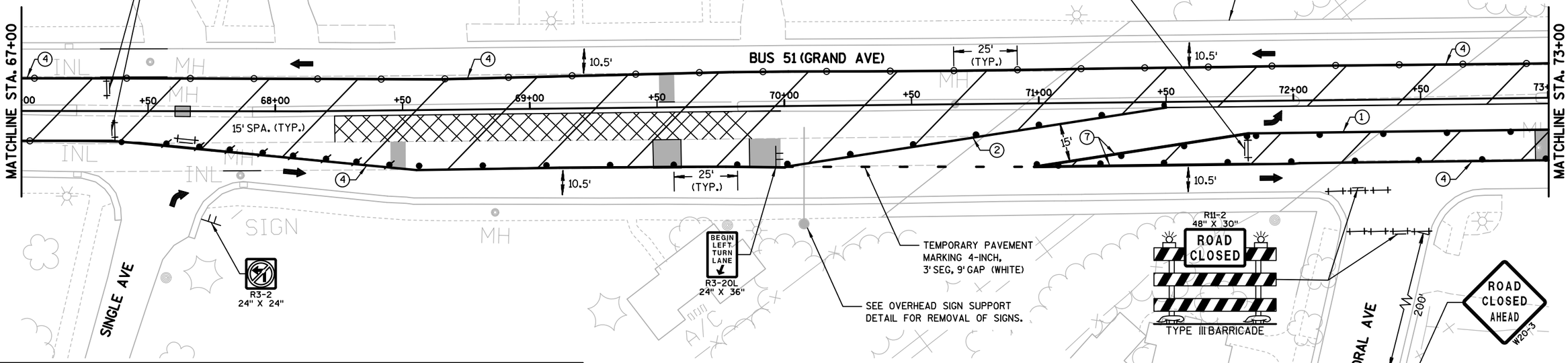
2



*REMOVE SIGNS AT BEGINNING OF STAGE 3.
INSTALL NEW SIGNS PRIOR TO STAGE 4.

OVERHEAD SIGN SUPPORT DETAIL





LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET 104	E

2

WISCONSIN CENTRAL LTD.

ROAD WORK AHEAD
W20-1

200'

END ROAD WORK
G20-2A
48" X 24"

N

E THOMAS ST

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-6
48" X 24"
TYPE III BARRICADE

PROVIDE A 12:1 WEDGE OF ASPHALTIC SURFACE TEMPORARY BETWEEN MILLED SURFACE AND EXISTING PAVEMENT.

MATCHLINE STA. 73+00

MATCHLINE STA. 79+00

10.5'

25' (TYP.)

15' (TYP.)

74+00 +50 75+00 +50 76+00 +50 77+00 +50 78+00 +50

BUS 51 (GRAND AVE)

LEUBNER ST

E THOMAS ST

200'

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

LEGEND

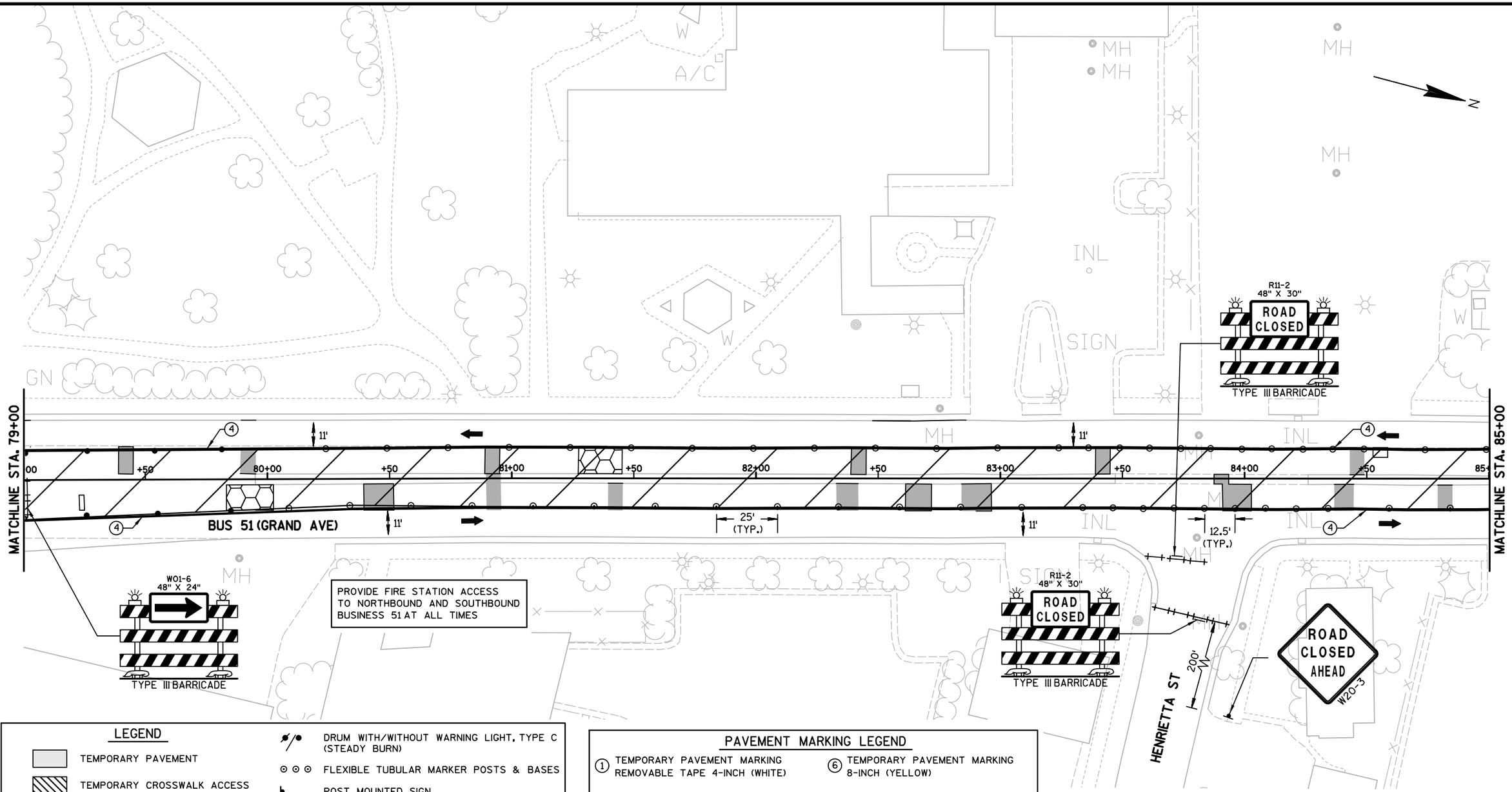
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET 105	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\026310_s3.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

N

INL

SIGN

SIGN

SIGN

SIGN

SIG

MH

MH

INL

INL

INL

INL

INL

INL

W

W

W

W

W

SIGN

MATCHLINE STA. 85+00

MATCHLINE STA. 91+00

00

+50

86+00

+50

87+00

+50

88+00

+50

89+00

+50

90+00

+50

91+

11'

11'

11'

11'

4

4

4

4

25'
(TYP.)

BUS 51 (GRAND AVE)

LEGEND

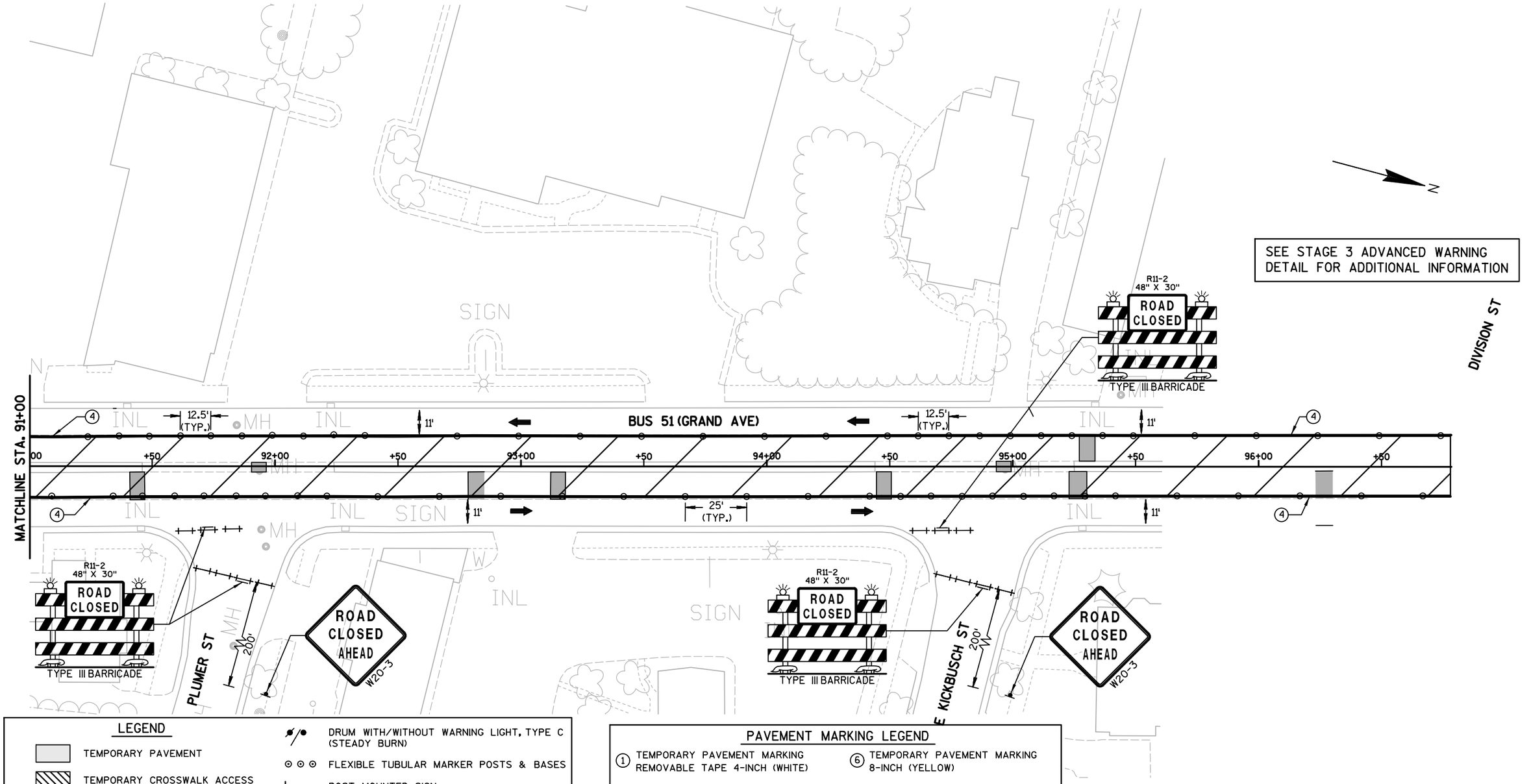
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET 107	E

2



LEGEND

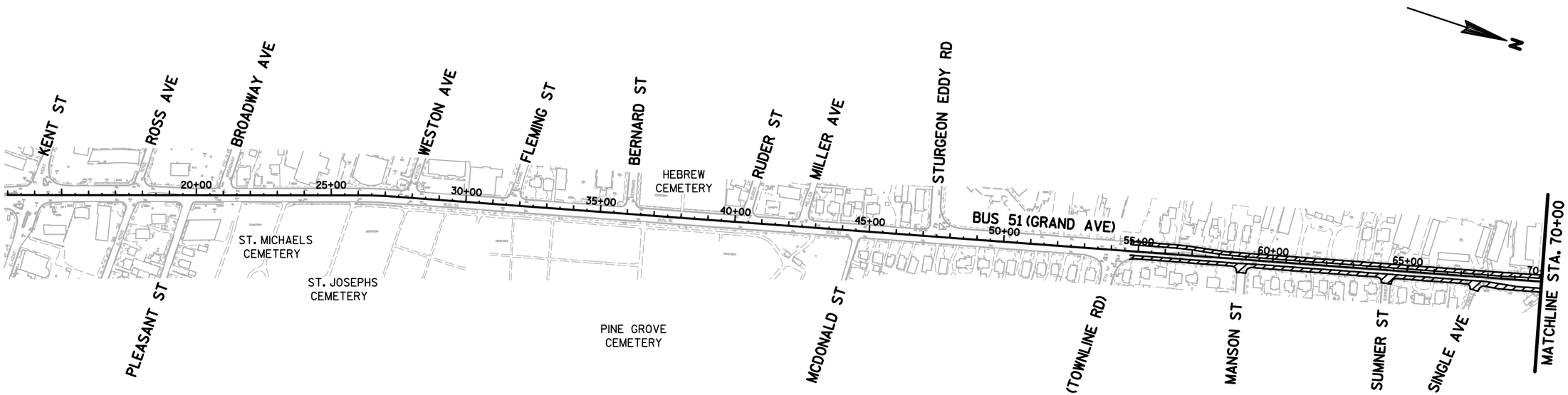
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

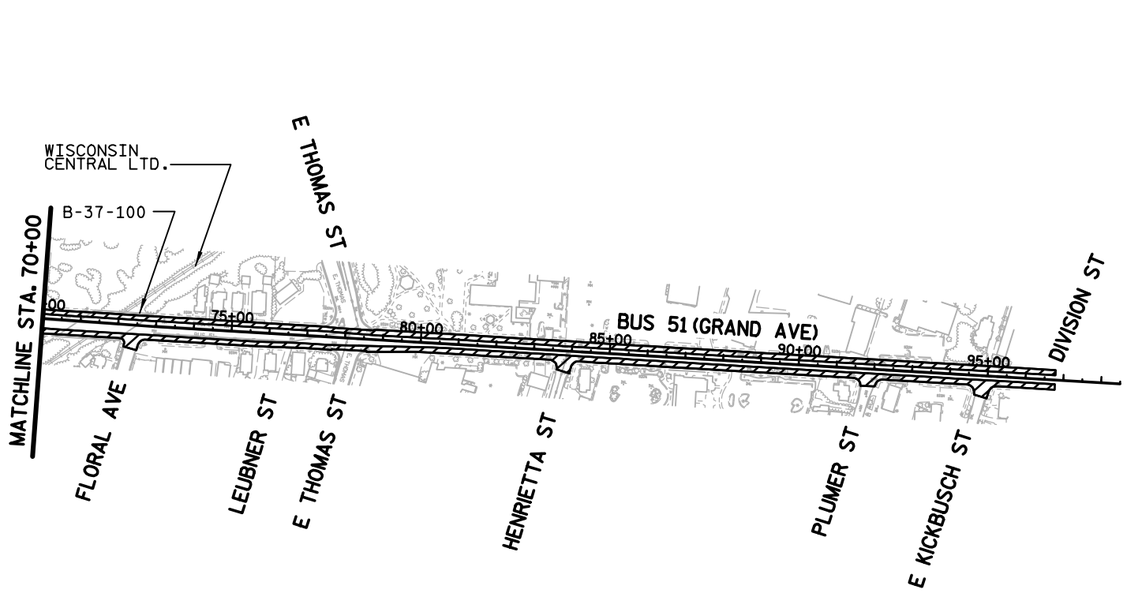
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 3	SHEET 108	E





STAGE 4

PURPOSE:
COMPLETE CONCRETE PAVEMENT REPAIR AND HMA OVERLAY OF THE OUTSIDE LANES OF BUSINESS 51 FROM CTH N TO DIVISION STREET AND INSTALL STREET LIGHTING.

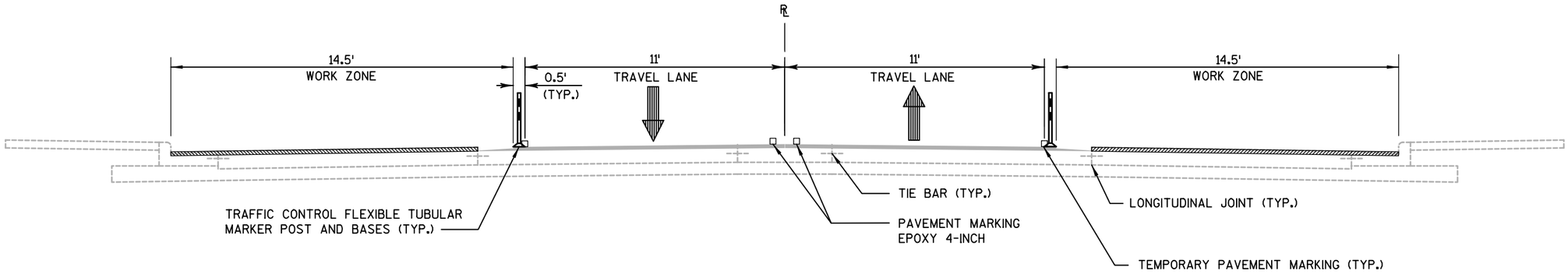
TRAFFIC HANDLING:
TRAFFIC ON BUSINESS 51 SHALL BE ON THE INSIDE LANE OF COMPLETED NORTHBOUND AND SOUTHBOUND PAVEMENT.

RESTRICTIONS:
THE INTERSECTIONS OF STURGEON EDDY ROAD, CTH N, SINGLE AVENUE, AND EAST THOMAS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. ALL OTHER INTERSECTIONS CAN BE CLOSED DURING STAGE 4 CONSTRUCTION OPERATIONS.

THE LEFT TURN FROM SOUTHBOUND BUSINESS 51 TO SINGLE AVENUE WILL NOT BE PERMITTED DURING STAGE 4.

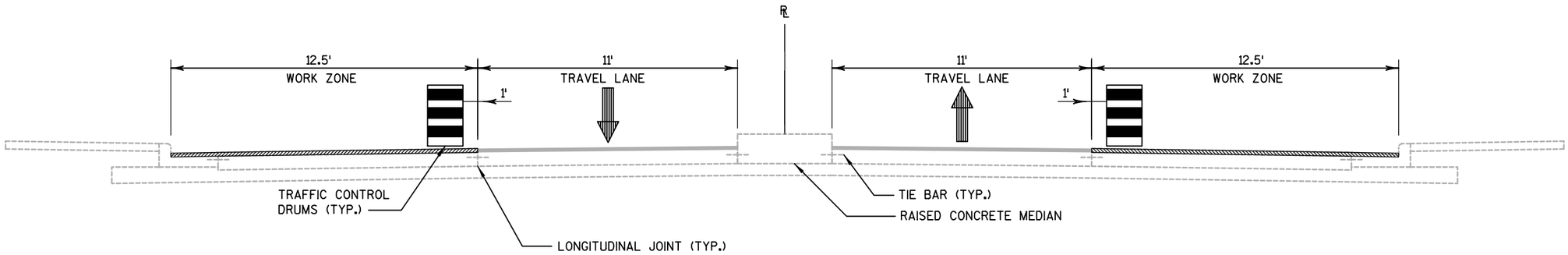
WORK ZONE

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4 OVERVIEW	SHEET 109	E



TYPICAL SECTION - STAGE 4 (MILLING OPERATIONS)

STA. 54+50 - STA. 96+45



TYPICAL SECTION - STAGE 4 (PAVING OPERATIONS)

TOWNLINE ROAD
EAST THOMAS STREET

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	TRAFFIC CONTROL - STAGE 4 TYPICAL SECTIONS	SHEET 110	E

2

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

WASHINGTON ST

N 6TH ST

N 5TH ST

ROAD WORK AHEAD W20-1

200'

M 4-5 24" X 12" TO
M4-3 24" X 12" BUSINESS
M1-6 24" X 24" 51
R3-54C 24" X 24" USE CENTER LANE

JACKSON ST

TRAFFIC CONTROL SIGNS PCMS TO BE INSTALLED TWO WEEKS PRIOR TO BEGINNING STAGE 4 CONSTRUCTION.

WARNING LIGHT TYPE C (STEADY BURN)

RIGHT LANE CLOSED AHEAD W20-5

M4-3 24" X 12" BUSINESS
M1-6 24" X 24" 51

W04-2R

M4-3 24" X 12" BUSINESS
M1-6 24" X 24" 51
R3-54C 24" X 24" USE CENTER LANE

ROAD WORK AHEAD W20-1

FOREST ST

400'

400'

TRAFFIC CONTROL SIGNS PCMS REQ'D

MB

FOREST ST

END ROAD WORK G20-2A 48" X 24"

TEMPORARY PAVMENT MARKING ARROW

R11-2(MOD) 48" X 30"

LANE CLOSED

125' TAPER

TYPE III BARRICADE

55' BUFFER

SEE DETAILS FOR STAGE 4 CONSTRUCTION

S 4TH ST

S 5TH ST

DIVISION ST

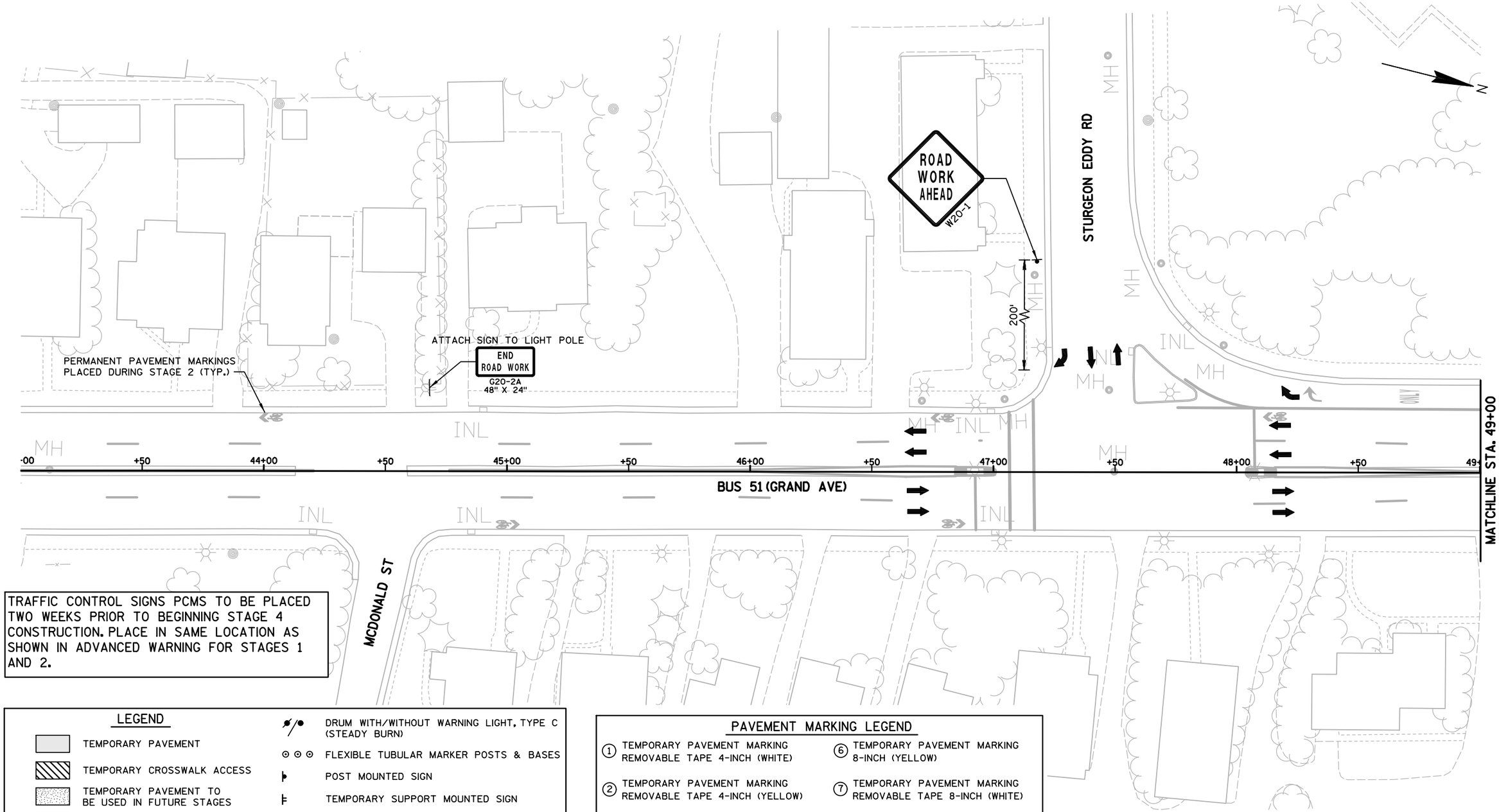
TEMPORARY PAVMENT MARKING 4-INCH (WHITE)

BUS 51

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4 ADVANCED WARNING	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\026402_s4.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL SIGNS PCMS TO BE PLACED TWO WEEKS PRIOR TO BEGINNING STAGE 4 CONSTRUCTION. PLACE IN SAME LOCATION AS SHOWN IN ADVANCED WARNING FOR STAGES 1 AND 2.

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

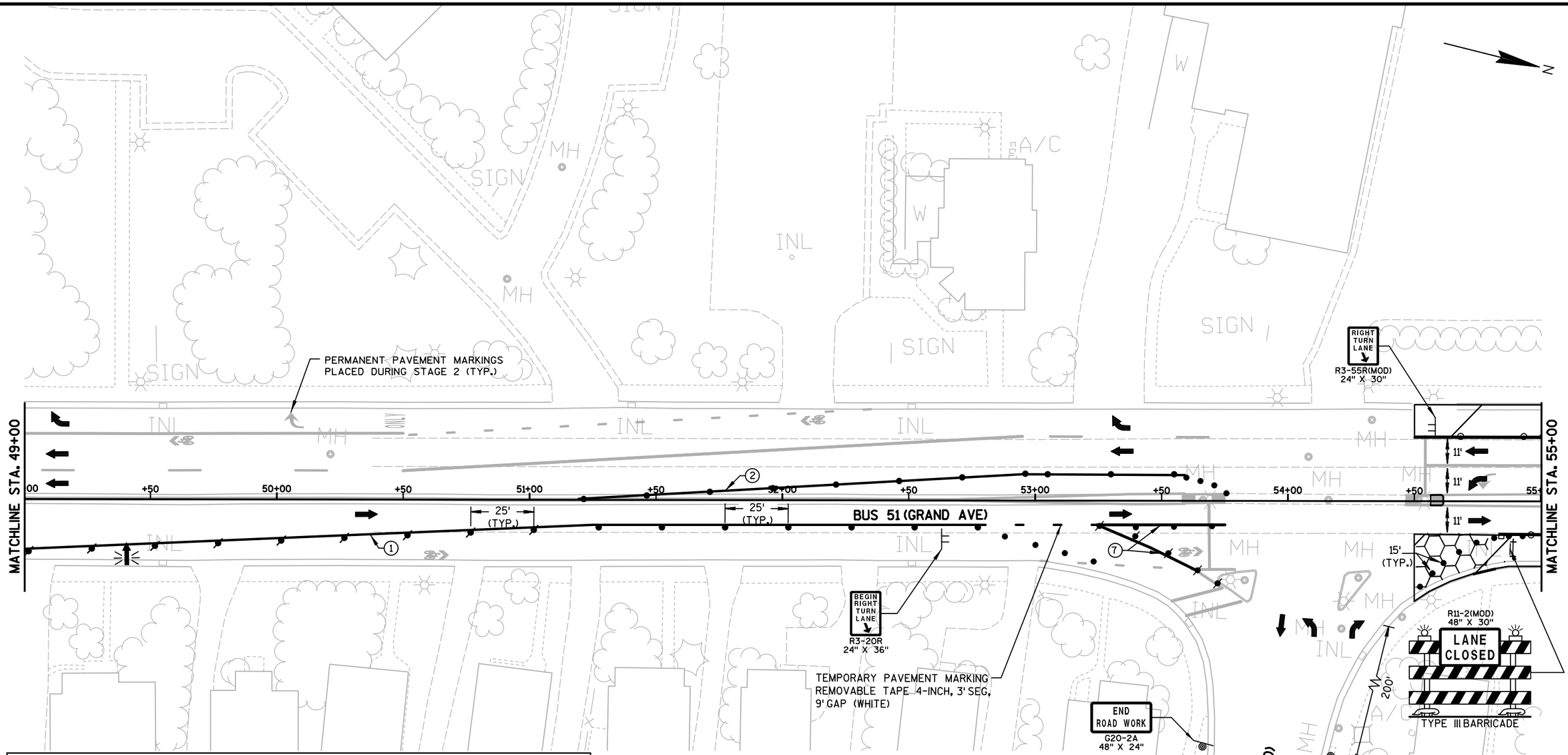
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY" FOR ADVANCE WARNING SIGNING

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 112	E

2



LEGEND

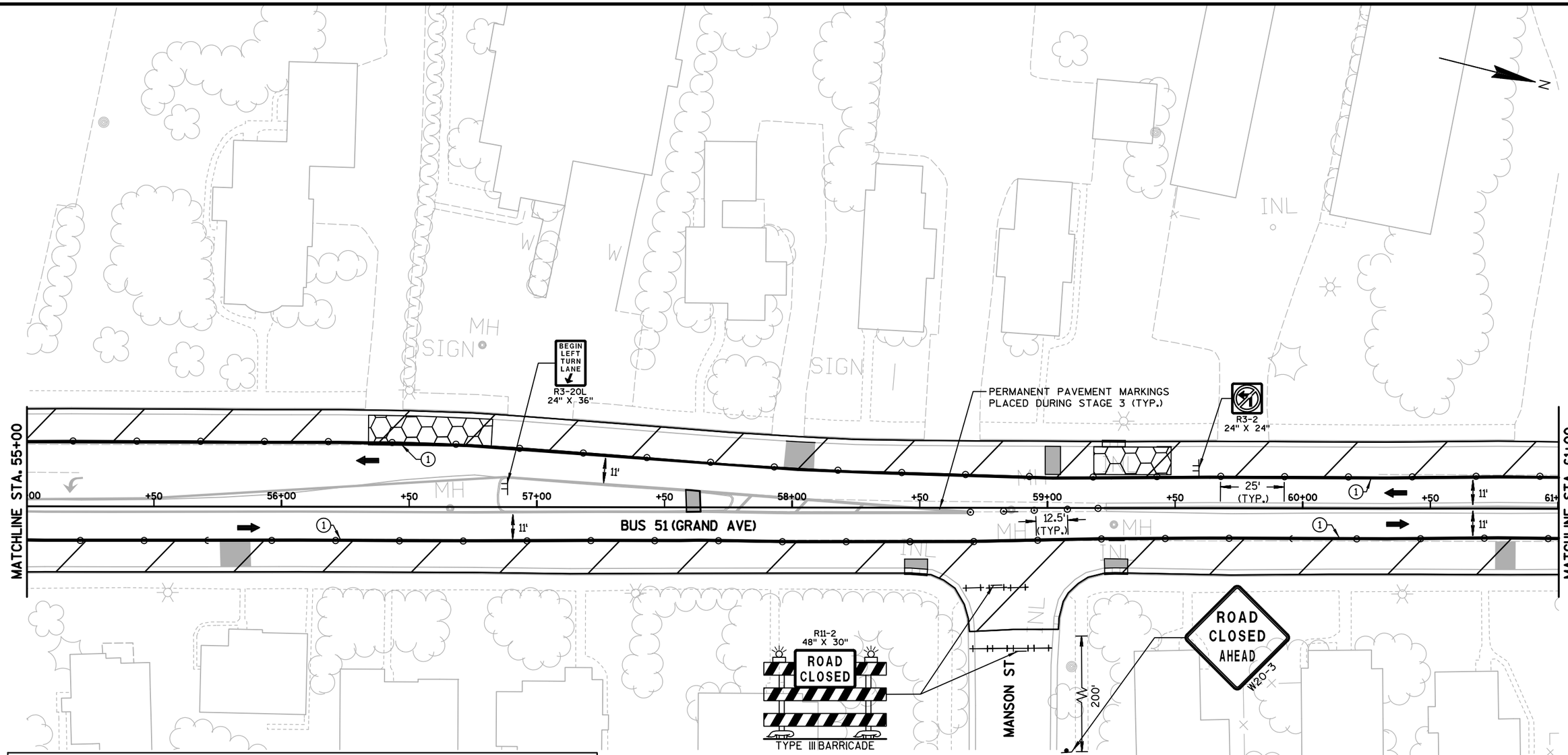
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 113	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

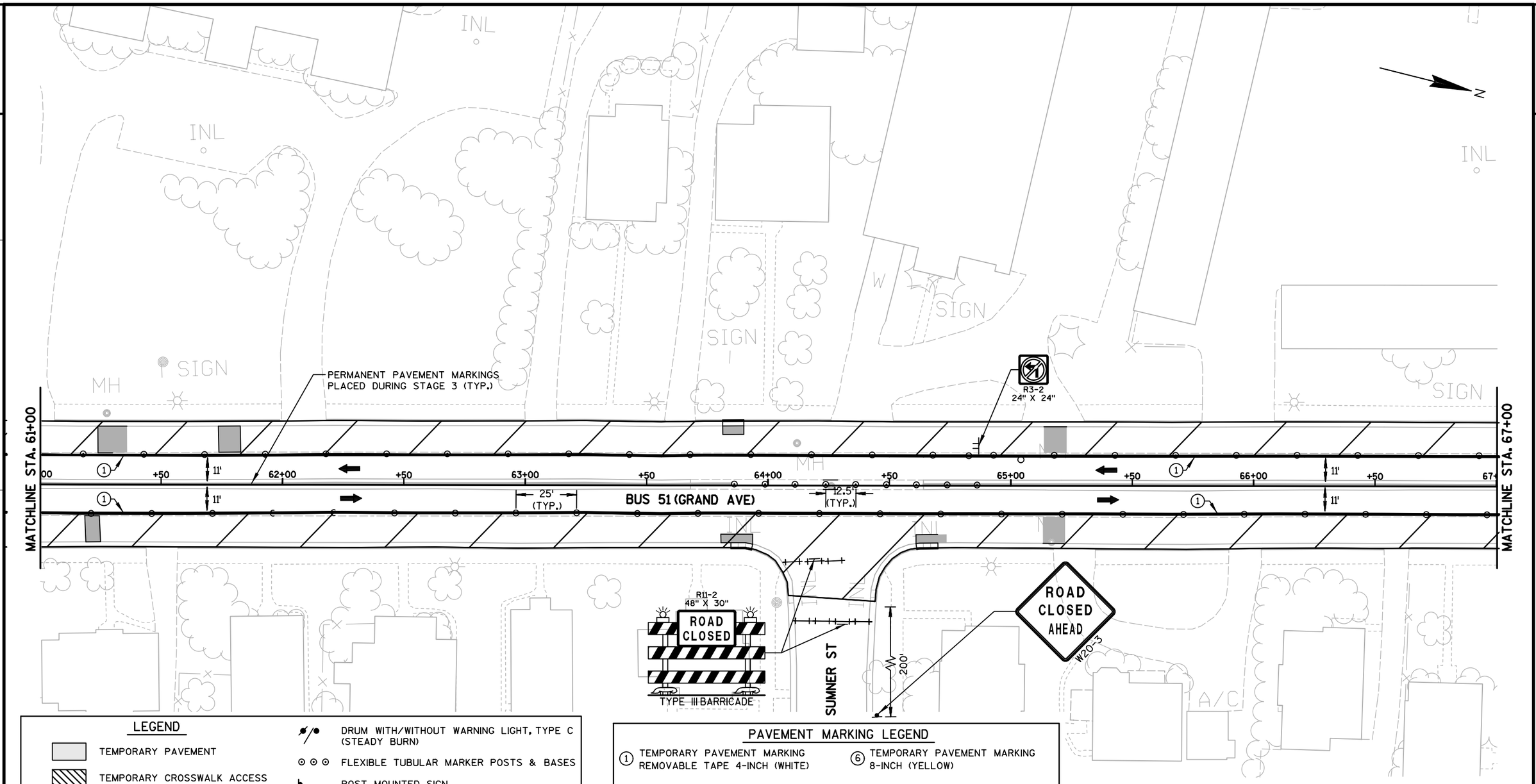
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 114	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

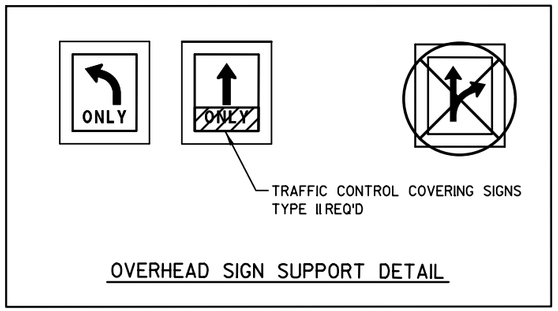
1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\026406_s4.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



OVERHEAD SIGN SUPPORT DETAIL

N

FLAGS, 12"X12", RED

STOP
R1-1
30" X 30"

PERMANENT PAVEMENT MARKINGS PLACED DURING STAGE 3 (TYP.)

B-37-100

WISCONSIN CENTRAL LTD.

R3-2
24" X 24"

MATCHLINE STA. 67+00

MATCHLINE STA. 73+00

68+00 69+00 70+00 71+00 72+00 73+

+50

11'

12.5'
(TYP.)

BUS 51 (GRAND AVE)

25'
(TYP.)

15'
(TYP.)

R11-2(MOD)
48" X 30"
LANE CLOSED

TYPE III BARRICADE

R3-2
24" X 24"

SINGLE AVE

SEE OVERHEAD SIGN SUPPORT DETAIL FOR REMOVAL OF SIGNS.

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

ROAD CLOSED AHEAD
W20-3

200'

FLORAL AVE

LEGEND

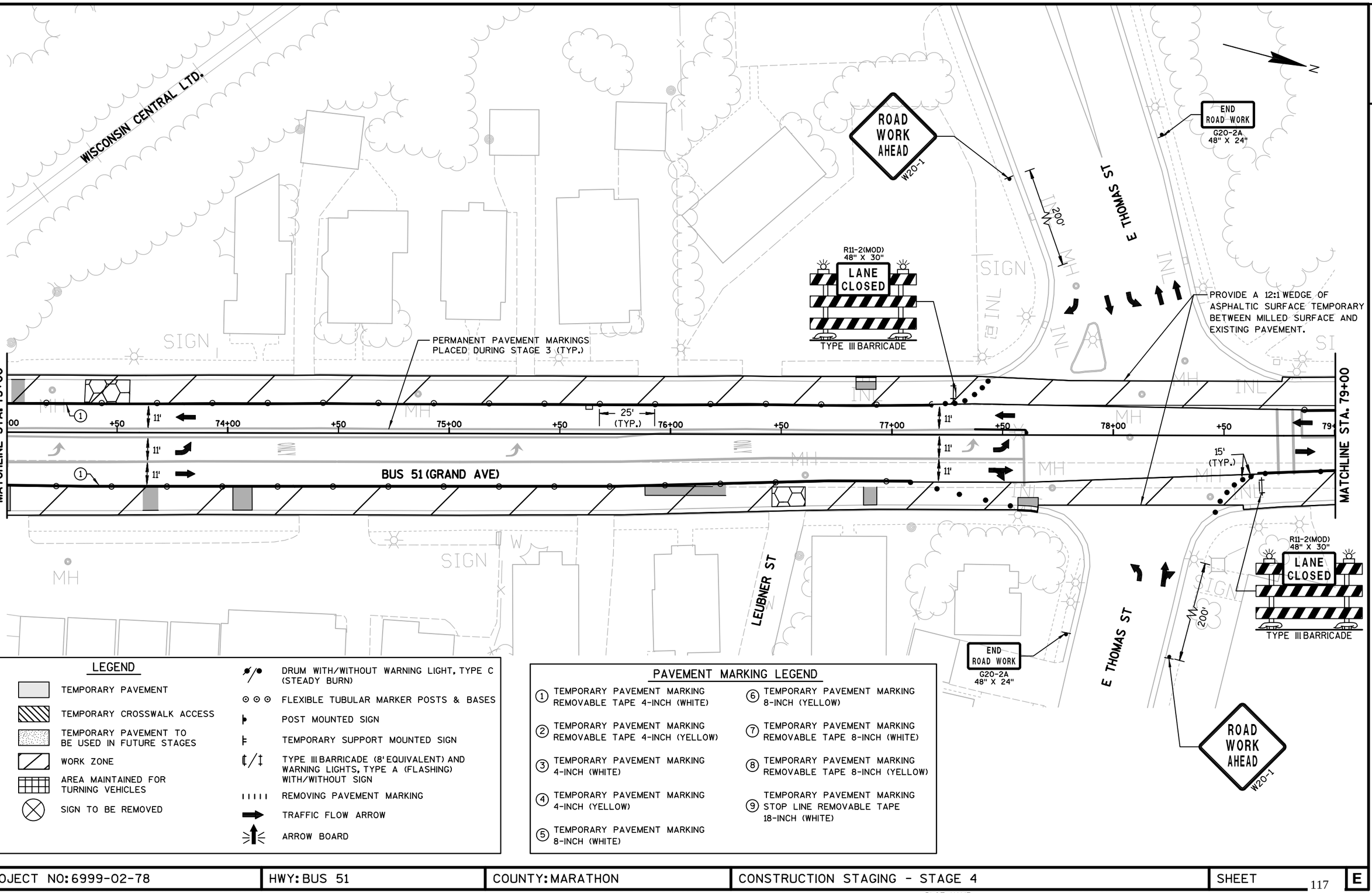
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

2



LEGEND

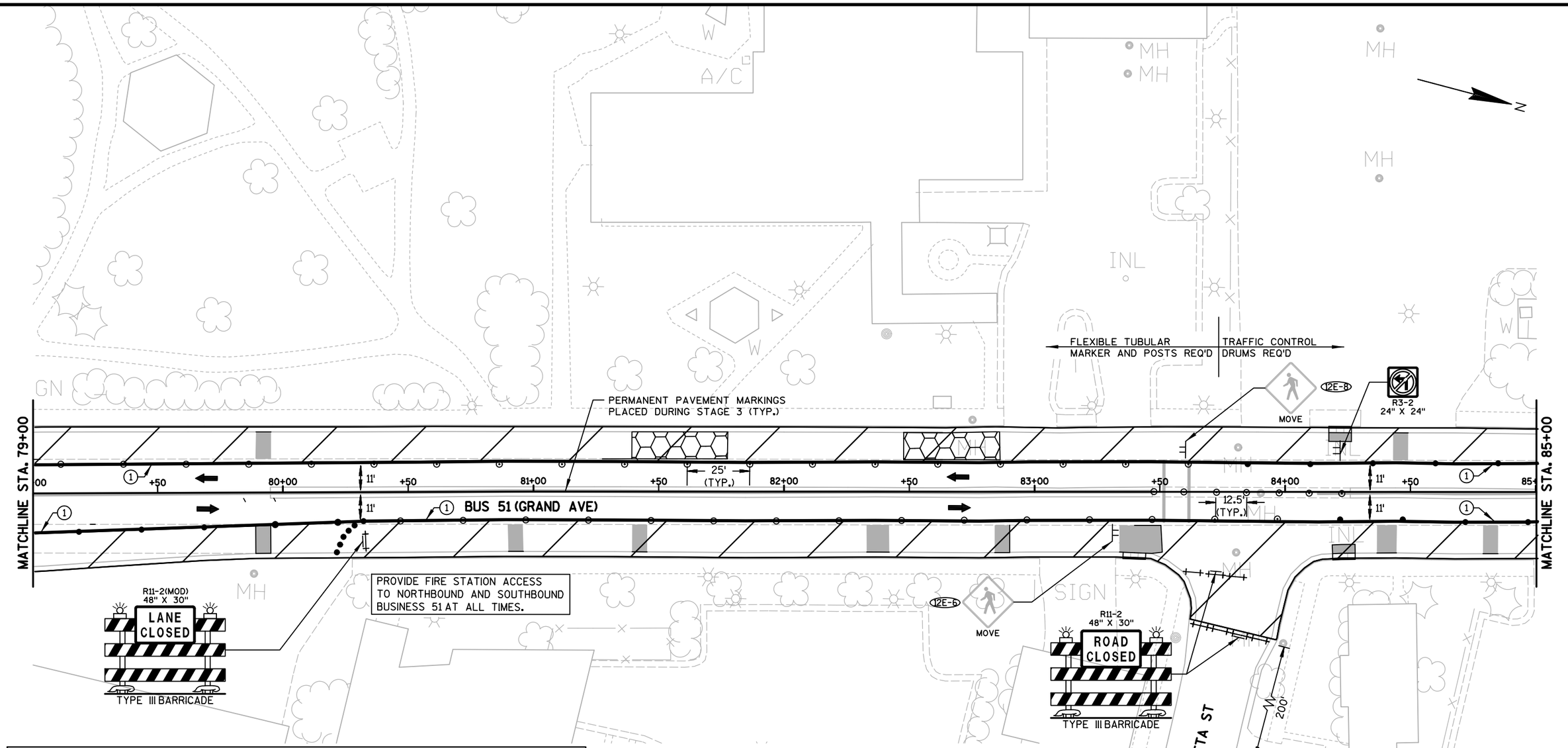
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 117	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

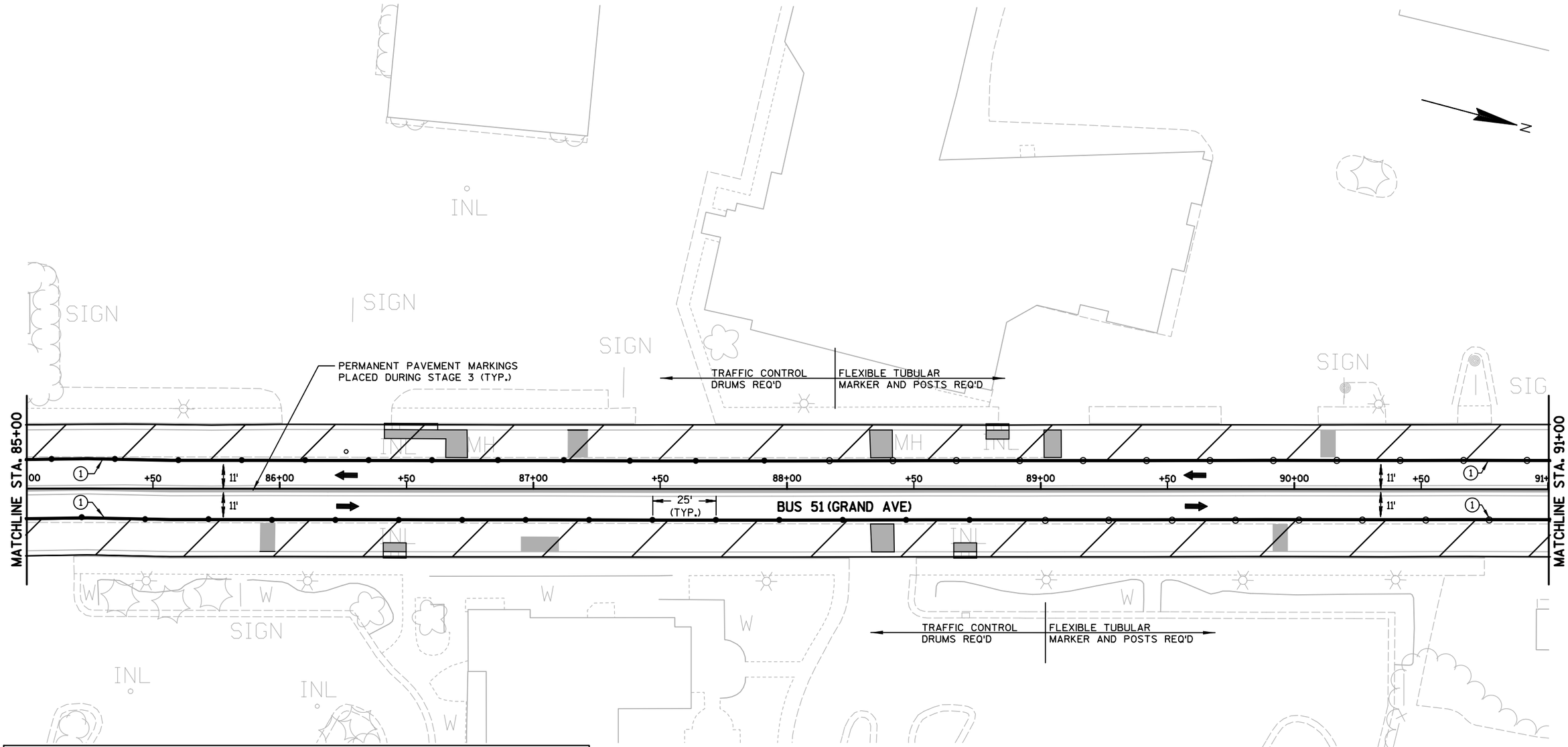
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 118	E

2



LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 119	E

2

SEE STAGE 4 ADVANCED WARNING DETAIL FOR ADDITIONAL INFORMATION

DIVISION ST

PERMANENT PAVEMENT MARKINGS PLACED DURING STAGE 3 (TYP.)

R3-2 24" X 24"

R3-2 24" X 24"

MATCHLINE STA. 91+00

BUS 51 (GRAND AVE)

12.5' (TYP.)

25' (TYP.)

12.5' (TYP.)

11'

11'

11'

11'

91+00 +50 92+00 +50 93+00 +50 94+00 +50 95+00 +50 96+00 +50

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

R11-2(MOD) 48" X 30" LANE CLOSED TYPE III BARRICADE

200'

ROAD CLOSED AHEAD W20-3

PLUMER ST

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

E KICKBUSCH ST

200'

ROAD CLOSED AHEAD W20-3

SIGN

MH

INL

N

LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- SIGN TO BE REMOVED
- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- FLEXIBLE TUBULAR MARKER POSTS & BASES
- POST MOUNTED SIGN
- TEMPORARY SUPPORT MOUNTED SIGN
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKING
- TRAFFIC FLOW ARROW
- ARROW BOARD

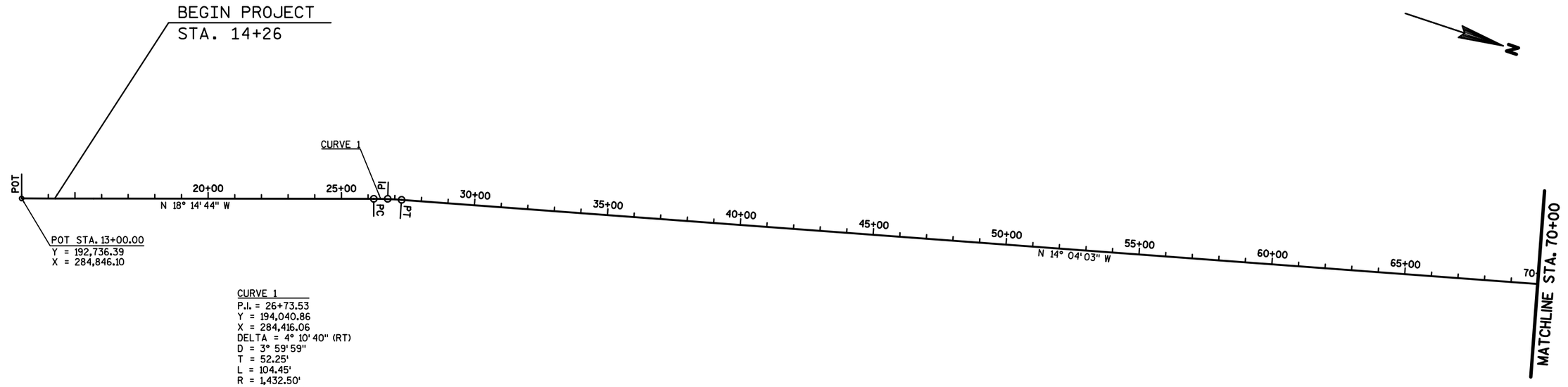
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
5. TEMPORARY PAVEMENT MARKING 8-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING 8-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
8. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (YELLOW)
9. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

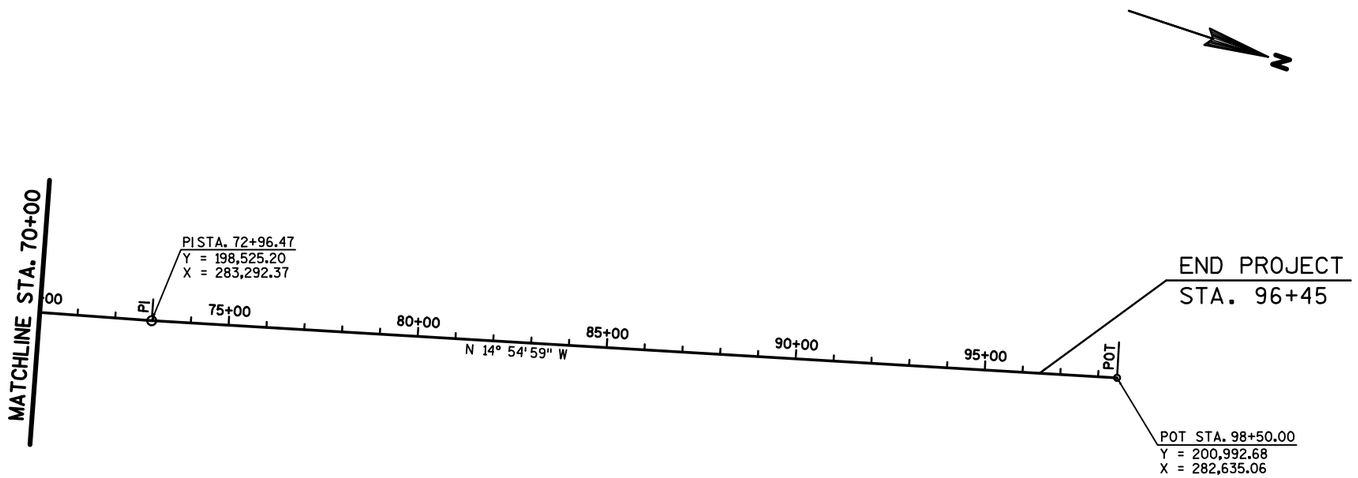
FOR SIDE ROAD CLOSURES, SEE SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURE," DETAIL 1 FOR ADDITIONAL INFORMATION

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	CONSTRUCTION STAGING - STAGE 4	SHEET 120	E

2



CURVE 1
P.I. = 26+73.53
Y = 194,040.86
X = 284,416.06
DELTA = 4° 10' 40" (RT)
D = 3° 59' 59"
T = 52.25'
L = 104.45'
R = 1,432.50'
P.C. = 26+21.28
Y = 193,991.24
X = 284,432.42
P.T. = 27+25.73
Y = 194,091.54
X = 284,403.36



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	ALIGNMENT DETAIL	SHEET 121	E

DATE 02JUL13 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6999-02-78 QUANTITY
0010	204.0100	REMOVING PAVEMENT	SY	450.000	450.000
0020	204.0109.S	REMOVING CONCRETE SURFACE PARTIAL DEPTH	SF	455,600.000	455,600.000
0030	204.0150	REMOVING CURB & GUTTER	LF	384.000	384.000
0040	204.0155	REMOVING CONCRETE SIDEWALK	SY	749.000	749.000
0050	204.0195	REMOVING CONCRETE BASES	EACH	65.000	65.000
0060	204.9060.S	REMOVING (ITEM DESCRIPTION) 01. INLET COVERS	EACH	10.000	10.000
0070	204.9060.S	REMOVING (ITEM DESCRIPTION) 02. MANHOLE COVERS	EACH	2.000	2.000
0080	204.9060.S	REMOVING (ITEM DESCRIPTION) 05. LIGHTING CONTROL CABINET	EACH	1.000	1.000
0090	205.0100	EXCAVATION COMMON	CY	245.000	245.000
0100	213.0100	FINISHING ROADWAY (PROJECT) 01. 6999-02-78	EACH	1.000	1.000
0110	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	173.000	173.000
0120	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	268.000	268.000
0130	415.0070	CONCRETE PAVEMENT 7-INCH	SY	445.000	445.000
0140	416.0610	DRILLED TIE BARS	EACH	2,197.000	2,197.000
0150	416.0620	DRILLED DOWEL BARS	EACH	4,163.000	4,163.000
0160	416.0754.S	CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR	SF	335.000	335.000
0170	416.1710	CONCRETE PAVEMENT REPAIR	SY	2,433.000	2,433.000
0180	416.1715	CONCRETE PAVEMENT REPAIR SHES	SY	101.000	101.000
0190	416.1720	CONCRETE PAVEMENT REPLACEMENT	SY	837.000	837.000
0200	416.1725	CONCRETE PAVEMENT REPLACEMENT SHES	SY	111.000	111.000
0210	455.0115	ASPHALTIC MATERIAL PG64-22	TON	310.000	310.000
0220	455.0605	TACK COAT	GAL	1,285.000	1,285.000
0230	460.1110	HMA PAVEMENT TYPE E-10	TON	5,613.000	5,613.000
0240	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	3,600.000	3,600.000
0250	465.0110	ASPHALTIC SURFACE PATCHING	TON	100.000	100.000
0260	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	2.000	2.000
0270	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	400.000	400.000
0280	601.0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	384.000	384.000
0290	602.0405	CONCRETE SIDEWALK 4-INCH	SF	6,880.000	6,880.000
0300	611.0535	MANHOLE COVERS TYPE J-SPECIAL	EACH	2.000	2.000
0310	611.0600	INLET COVERS TYPE A	EACH	8.000	8.000
0320	611.0603	INLET COVERS TYPE A-S	EACH	2.000	2.000
0330	611.8110	ADJUSTING MANHOLE COVERS	EACH	28.000	28.000
0340	611.8115	ADJUSTING INLET COVERS	EACH	52.000	52.000
0350	611.8120.S	COVER PLATES TEMPORARY	EACH	30.000	30.000
0360	611.9705	SALVAGED MANHOLE COVERS	EACH	28.000	28.000
0370	619.1000	MOBILIZATION	EACH	1.000	1.000
0380	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	125.000	125.000
0390	624.0100	WATER	MGAL	0.100	0.100
0400	625.0100	TOPSOIL	SY	60.000	60.000
0410	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2.000
0420	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	4.000	4.000
0430	628.2006	EROSION MAT URBAN CLASS I TYPE A	SY	60.000	60.000
0440	628.7015	INLET PROTECTION TYPE C	EACH	85.000	85.000
0450	629.0210	FERTILIZER TYPE B	CWT	0.100	0.100
0460	630.0140	SEEDING MIXTURE NO. 40	LB	1.000	1.000
0470	634.0812	POSTS TUBULAR STEEL 2X2-INCH X 12-FT	EACH	19.000	19.000
0480	637.0202	SIGNS REFLECTIVE TYPE II	SF	807.130	807.130
0490	637.0402	SIGNS REFLECTIVE FOLDING TYPE II	SF	56.250	56.250

3

DATE 02JUL13 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6999-02-78 QUANTITY
0500	638.2102	MOVING SIGNS TYPE II	EACH	6.000	6.000
0510	638.2602	REMOVING SIGNS TYPE II	EACH	151.000	151.000
0520	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	20.000	20.000
0530	642.5201	FIELD OFFICE TYPE C	EACH	1.000	1.000
0540	643.0200	TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 01. 6999-02-78	DAY	149.000	149.000
0550	643.0300	TRAFFIC CONTROL DRUMS	DAY	32,236.000	32,236.000
0560	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	10,701.000	10,701.000
0570	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	1,606.000	1,606.000
0580	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	1,606.000	1,606.000
0590	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	13,778.000	13,778.000
0600	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	3,625.000	3,625.000
0610	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	298.000	298.000
0620	643.0900	TRAFFIC CONTROL SIGNS	DAY	10,192.000	10,192.000
0630	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	4.000	4.000
0640	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	298.000	298.000
0650	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	17,998.000	17,998.000
0660	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1,432.000	1,432.000
0670	646.0600	REMOVING PAVEMENT MARKINGS	LF	290.000	290.000
0680	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	9.000	9.000
0690	647.0336	PAVEMENT MARKING SYMBOLS BIKE SHARED LANE EPOXY	EACH	68.000	68.000
0700	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	5.000	5.000
0710	647.0456	PAVEMENT MARKING CURB EPOXY	LF	78.000	78.000
0720	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	264.000	264.000
0730	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	15.000	15.000
0740	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	94.000	94.000
0750	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	848.000	848.000
0760	647.0796	PAVEMENT MARKING CROSSWALK EPOXY 24-INCH	LF	109.000	109.000
0770	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	15,993.000	15,993.000
0780	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	20,440.000	20,440.000
0790	649.0701	TEMPORARY PAVEMENT MARKING 8-INCH	LF	210.000	210.000
0800	649.0801	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH	LF	981.000	981.000
0810	649.1200	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH	LF	23.000	23.000
0820	649.1700	TEMPORARY PAVEMENT MARKING ARROWS	EACH	4.000	4.000
0830	650.7000	CONSTRUCTION STAKING CONCRETE PAVEMENT	LF	389.000	389.000
0840	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	16,450.000	16,450.000
0850	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 6999-02-78	LS	1.000	1.000
0860	652.0605	CONDUIT SPECIAL 2-INCH	LF	12,138.000	12,138.000
0870	652.0615	CONDUIT SPECIAL 3-INCH	LF	4,080.000	4,080.000
0880	652.0700.S	INSTALL CONDUIT INTO EXISTING ITEM	EACH	1.000	1.000
0890	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	43.000	43.000
0900	653.0905	REMOVING PULL BOXES	EACH	10.000	10.000
0910	654.0105	CONCRETE BASES TYPE 5	EACH	12.000	12.000
0920	654.0107	CONCRETE BASES TYPE 7	EACH	51.000	51.000
0930	654.0210	CONCRETE CONTROL CABINET BASES TYPE 8	EACH	2.000	2.000
0940	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	26,349.000	26,349.000
0950	655.0615	ELECTRICAL WIRE LIGHTING 10 AWG	LF	27,978.000	27,978.000

3

DATE 02JUL13 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6999-02-78 QUANTITY
0960	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	27,291.000	27,291.000
0970	655.0625	ELECTRICAL WIRE LIGHTING 6 AWG	LF	34,968.000	34,968.000
0980	655.0630	ELECTRICAL WIRE LIGHTING 4 AWG	LF	54,183.000	54,183.000
0990	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. STURGEON EDDY	LS	1.000	1.000
1000	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. HENRIETTA	LS	1.000	1.000
1010	657.0210	TRANSFORMER BASES BREAKAWAY 15-17 INCH BOLT CIRCLE	EACH	60.000	60.000
1020	657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	EACH	12.000	12.000
1030	657.0337	POLES TYPE 17-ALUMINUM	EACH	60.000	60.000
1040	657.0715	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT	EACH	72.000	72.000
1050	690.0150	SAWING ASPHALT	LF	120.000	120.000
1060	690.0250	SAWING CONCRETE	LF	16,100.000	16,100.000
1070	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	500.000	500.000
1080	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5. 00/HR	HRS	2,000.000	2,000.000
1090	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	1,260.000	1,260.000
1100	SPV.0060	SPECIAL 01. REMOVING EXISTING CITY-OWNED LIGHT POLE ASSEMBLY	EACH	65.000	65.000
1110	SPV.0060	SPECIAL 02. LIGHTING CONTROL CABINET, STURGEON EDDY	EACH	1.000	1.000
1120	SPV.0060	SPECIAL 03. GLOBAL POSITIONING SATELLITES CLOCK ASSEMBLY	EACH	4.000	4.000
1130	SPV.0060	SPECIAL 04. UTILITY LINE OPENINGS	EACH	60.000	60.000
1140	SPV.0060	SPECIAL 05. CONCRETE BASES TYPE 7 BUMPER TYPE	EACH	9.000	9.000
1150	SPV.0060	SPECIAL 06. LED LIGHT FIXTURE (HOLOPHANE)	EACH	72.000	72.000
1160	SPV.0060	SPECIAL 07. POLES, 25-FT ALUMINUM	EACH	12.000	12.000
1170	SPV.0060	SPECIAL 08. RETROFIT EXISTING HPS LUMINARES	EACH	11.000	11.000
1180	SPV.0060	SPECIAL 09. LIGHTING CONTROL CABINET, HENRIETTA	EACH	1.000	1.000
1190	SPV.0180	SPECIAL 01. TEMPORARY CROSSWALK ACCESS	SY	527.000	527.000

3

PAVEMENT SURFACE REMOVAL

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF
0010	1	14+50 - 18+25	LT	8,200
		14+50 - 18+25	RT	4,400
		18+25 - 20+00	LT	2,200
		18+25 - 20+00	RT	2,050
		20+00 - 21+50	LT	2,000
		20+00 - 21+50	RT	1,900
		21+50 - 28+50	LT	9,350
		21+50 - 28+50	RT	8,950
		28+50 - 32+25	LT	4,800
		28+50 - 32+25	RT	4,850
		32+25 - 36+50	LT	5,550
		32+25 - 36+50	RT	5,550
		36+50 - 40+75	LT	5,550
		36+50 - 40+75	RT	5,450
		40+75 - 42+75	LT	2,650
		40+75 - 42+75	RT	2,550
		42+75 - 44+75	LT	2,650
		42+75 - 44+75	RT	2,550
		44+75 - 48+00	LT	4,300
		44+75 - 48+00	RT	4,150
		48+00 - 54+50	LT	14,400
		48+00 - 54+50	RT	8,350
		SUBTOTAL (STAGE 1)		112,400
	2	14+50 - 18+25	LT	6,250
		14+50 - 18+25	RT	5,850
		18+25 - 20+00	LT	2,200
		18+25 - 20+00	RT	3,400
		20+00 - 21+50	LT	3,500
		20+00 - 21+50	RT	1,950
		21+50 - 28+50	LT	10,000
		21+50 - 28+50	RT	9,000
		28+50 - 32+25	LT	6,200
		28+50 - 32+25	RT	4,900
		32+25 - 36+50	LT	6,300
		32+25 - 36+50	RT	5,500
		36+50 - 40+75	LT	6,750
		36+50 - 40+75	RT	5,550
		40+75 - 42+75	LT	3,450
		40+75 - 42+75	RT	2,600
		42+75 - 44+75	LT	2,600
		42+75 - 44+75	RT	3,100
		44+75 - 48+00	LT	4,500
		44+75 - 48+00	RT	4,250
		48+00 - 54+50	LT	10,500
		48+00 - 54+50	RT	9,200
		SUBTOTAL (STAGE 2)		117,550

CONT. ABOVE

PAVEMENT SURFACE REMOVAL (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF
0010	3	54+50 - 59+25	LT	8,750
		54+50 - 59+25	RT	5,950
		59+25 - 64+50	LT	7,000
		59+25 - 64+50	RT	6,700
		64+50 - 67+75	LT	4,400
		64+50 - 67+75	RT	4,150
		67+75 - 71+00	LT	4,150
		67+75 - 71+00	RT	6,600
		72+50 - 78+50	LT	6,900
		72+50 - 78+50	RT	13,800
		78+50 - 84+00	LT	7,200
		78+50 - 84+00	RT	7,650
		84+00 - 92+00	LT	10,000
		84+00 - 92+00	RT	10,900
		92+00 - 95+00	LT	3,850
		92+00 - 95+00	RT	4,000
		95+00 - 96+45	LT	1,800
		95+00 - 96+45	RT	1,800
		SUBTOTAL (STAGE 3)		115,600
	4	54+50 - 59+25	LT	6,350
		54+50 - 59+25	RT	7,100
		59+25 - 64+50	LT	6,800
		59+25 - 64+50	RT	7,500
		64+50 - 67+75	LT	4,200
		64+50 - 67+75	RT	4,850
		67+75 - 71+00	LT	4,350
		67+75 - 71+00	RT	3,850
		72+50 - 78+50	LT	7,100
		72+50 - 78+50	RT	8,700
		78+50 - 84+00	LT	7,000
		78+50 - 84+00	RT	8,200
		84+00 - 92+00	LT	10,300
		84+00 - 92+00	RT	11,100
		92+00 - 95+00	LT	3,900
		92+00 - 95+00	RT	4,900
		95+00 - 96+45	LT	1,850
		95+00 - 96+45	RT	2,000
		SUBTOTAL (STAGE 4)		110,050
		TOTALS		455,600

REMOVING LIGHTING CONTROL CABINET

CATEGORY	LOCATION	204.9060.05 EA
0020	HENRIETTA STREET	1

CONCRETE PAVEMENT REPAIR / REPLACEMENT

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	* 205.0100 EXCAVATION COMMON CY	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	415.0070 CONCRETE PAVEMENT 7-INCH SY	416.0754.S CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR SF	416.1710 CONCRETE PAVEMENT REPAIR SY	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1720 CONCRETE PAVEMENT REPLACEMENT SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	* 690.0250 SAWING CONCRETE LF
0010	1	SPOT CONCRETE REPAIRS													
		14+50 - 18+25	LT & RT	---	---	---	---	12	50	15	---	---	32	80	195
		18+25 - 20+00	LT & RT	---	---	---	---	---	45	---	---	---	21	64	160
		20+00 - 21+50	LT & RT	---	---	---	---	7	25	---	---	---	8	32	85
		21+50 - 28+50	LT & RT	---	---	---	---	26	25	15	---	---	18	64	150
		28+50 - 32+25	LT & RT	---	---	---	---	4	25	---	---	---	13	8	98
		32+25 - 36+50	LT & RT	---	---	---	---	32	45	---	20	---	28	120	260
		36+50 - 40+75	LT & RT	---	---	---	---	20	45	---	---	---	17	96	205
		40+75 - 42+75	LT & RT	---	---	---	---	8	10	---	---	---	12	20	63
		42+75 - 44+75	LT & RT	---	---	---	---	---	7	---	---	---	2	16	34
		44+75 - 48+00	LT & RT	---	---	---	---	12	35	---	---	---	17	64	150
		48+00 - 54+50	LT & RT	---	---	---	---	1	130	25	---	---	89	140	585
		UNDISTRIBUTED (10%)		---	---	---	---	12	45	5	2	---	26	70	200
		SUBTOTAL (STAGE 1)		0	0	0	0	134	487	60	22	0	283	774	2,185
	2	SPOT CONCRETE REPAIRS													
		14+50 - 18+25	LT & RT	---	---	---	---	---	45	---	---	---	40	57	205
		18+25 - 20+00	LT & RT	---	---	---	---	3	35	---	---	---	12	64	120
		20+00 - 21+50	LT & RT	---	---	---	---	---	35	---	70	---	69	54	340
		21+50 - 28+50	LT & RT	---	---	---	---	9	100	---	---	---	53	154	395
		28+50 - 32+25	LT & RT	---	---	---	---	7	80	---	---	---	51	98	300
		32+25 - 36+50	LT & RT	---	---	---	---	---	75	---	50	---	81	156	425
		36+50 - 40+75	LT & RT	---	---	---	---	---	75	---	---	---	40	136	300
		40+75 - 42+75	LT & RT	---	---	---	---	---	35	---	---	---	27	56	160
		42+75 - 44+75	LT & RT	---	---	---	---	---	15	---	45	---	34	56	170
		44+75 - 48+00	LT & RT	---	---	---	---	---	40	---	---	45	51	76	265
		48+00 - 54+50	LT & RT	---	---	---	---	64	170	35	30	---	137	208	695
		UNDISTRIBUTED (10%)		---	---	---	---	8	70	3	20	5	59	112	340
		SUBTOTAL (STAGE 2)		0	0	0	0	91	775	38	215	50	654	1,227	3,715
	3	SPOT CONCRETE REPAIRS													
		54+50 - 59+25	LT & RT	240	85	80	240	10	50	---	25	---	121	124	505
		59+25 - 64+50	LT & RT	---	---	---	---	---	70	---	---	---	42	112	265
		64+50 - 67+75	LT & RT	---	---	---	---	5	35	---	---	---	15	48	125
		67+75 - 71+00	LT & RT	210	75	69	205	---	45	---	---	---	135	80	475
		72+50 - 78+50	LT & RT	---	---	---	---	6	70	---	85	---	77	129	430
		78+50 - 84+00	LT & RT	---	---	---	---	12	120	---	45	---	84	220	580
		84+00 - 92+00	LT & RT	---	---	---	---	51	100	---	40	---	81	224	545
		92+00 - 95+00	LT & RT	---	---	---	---	---	25	---	---	---	12	48	105
		95+00 - 96+45	LT & RT	---	---	---	---	---	25	---	---	---	11	43	105
		UNDISTRIBUTED (10%)		---	---	---	---	8	55	---	20	---	58	103	315
		SUBTOTAL (STAGE 3)		450	160	149	445	92	595	0	215	0	636	1,131	3,450
	4	SPOT CONCRETE REPAIRS													
		54+50 - 59+25	LT & RT	---	---	---	---	---	45	---	60	55	102	106	460
		59+25 - 64+50	LT & RT	---	---	---	---	---	50	---	35	---	36	82	200
		64+50 - 67+75	LT & RT	---	---	---	---	---	35	---	30	---	21	60	210
		67+75 - 71+00	LT & RT	---	---	---	---	6	55	---	---	---	20	80	170
		72+50 - 78+50	LT & RT	---	---	---	---	---	65	---	40	---	68	126	345
		78+50 - 84+00	LT & RT	---	---	---	---	---	70	---	90	---	84	144	410
		84+00 - 92+00	LT & RT	---	---	---	---	2	150	---	---	---	101	228	620
		92+00 - 95+00	LT & RT	---	---	---	---	8	7	---	40	---	32	32	125
		95+00 - 96+45	LT & RT	---	---	---	---	---	10	---	55	---	37	28	155
		UNDISTRIBUTED (10%)		---	---	---	---	2	50	---	35	6	50	89	270
		SUBTOTAL (STAGE 4)		0	0	0	0	18	537	0	385	61	551	975	2,965
		SUBTOTALS (0010)		450	160	149	445	335	2,394	98	837	111	2,124	4,107	12,315

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONT. NEXT SHEET

CONCRETE PAVEMENT REPAIR / REPLACEMENT (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	* 205.0100 EXCAVATION COMMON CY	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	415.0070 CONCRETE PAVEMENT 7-INCH SY	416.0754.S CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR SF	416.1710 CONCRETE PAVEMENT REPAIR SY	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1720 CONCRETE PAVEMENT REPLACEMENT SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	* 690.0250 SAWING CONCRETE LF
0040	1	SPOT CONCRETE REPAIRS													
		21+50 - 28+50	LT & RT	---	---	---	---	---	4	---	---	---	6	4	22
		42+75 - 44+75	LT & RT	---	---	---	---	---	3	---	---	---	6	4	22
		44+75 - 48+00	LT & RT	---	---	---	---	---	---	3	---	---	5	4	20
		48+00 - 54+50	LT & RT	---	---	---	---	---	3	---	---	---	5	4	20
		SUBTOTAL (STAGE 1)		0	0	0	0	0	10	3	0	0	22	16	84
	3	SPOT CONCRETE REPAIRS													
		54+50 - 59+25	LT & RT	---	---	---	---	---	5	---	---	---	10	8	40
		59+25 - 64+50	LT & RT	---	---	---	---	---	6	---	---	---	11	8	43
		64+50 - 67+75	LT & RT	---	---	---	---	---	3	---	---	---	5	4	20
		78+50 - 84+00	LT & RT	---	---	---	---	---	3	---	---	---	4	4	17
		84+00 - 92+00	LT & RT	---	---	---	---	---	9	---	---	---	16	12	65
		92+00 - 95+00	LT & RT	---	---	---	---	---	3	---	---	---	5	4	21
		SUBTOTAL (STAGE 3)		0	0	0	0	0	29	0	0	0	51	40	206
		SUBTOTALS (0040)		0	0	0	0	0	39	3	0	0	73	56	290
		TOTALS		450	160	149	445	335	2,433	101	837	111	2,197	4,163	12,605

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE CURB & GUTTER REPLACEMENT

CATEGORY	STATION - STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	601.0409 CONCRETE CURB & GUTTER 30-INCH LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0010	14+50 - 18+25	LT & RT	24	2	24	---
	18+25 - 20+00	LT & RT	6	1	6	---
	20+00 - 21+50	LT & RT	18	2	18	---
	21+50 - 28+50	LT & RT	48	4	48	---
	28+50 - 32+25	LT & RT	24	2	24	---
	32+25 - 36+50	LT & RT	12	1	12	---
	36+50 - 40+75	LT & RT	12	1	12	---
	40+75 - 42+75	LT & RT	12	1	12	---
	42+75 - 44+75	LT & RT	6	1	6	---
	44+75 - 48+00	LT & RT	24	2	24	20
	48+00 - 54+50	LT & RT	30	3	30	40
	54+50 - 59+25	LT & RT	30	3	30	65
	59+25 - 64+50	LT & RT	12	1	12	---
	64+50 - 67+75	LT & RT	18	2	18	---
	67+75 - 71+00	LT & RT	6	1	6	---
	72+50 - 78+50	LT & RT	12	1	12	---
	78+50 - 84+00	LT & RT	6	1	6	---
	84+00 - 92+00	LT & RT	60	6	60	---
	92+00 - 95+00	LT & RT	12	1	12	---
	95+00 - 96+45	LT & RT	12	1	12	---
	TOTALS		384	37	384	125

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE SIDEWALK AND CURB RAMPS

CATEGORY	STATION - STATION	LOCATION	204.0155 REMOVING CONCRETE SIDEWALK SY	* 205.0100 EXCAVATION COMMON CY	305.0110 BASE AGGREGATE DENSE 3/4-INCH (4-INCHES) TON	602.0405 CONCRETE SIDEWALK 4-INCH SF	* 690.0250 SAWING CONCRETE LF
0020	14+50 - 18+25	LT & RT	30	3	7	270	150
	18+25 - 20+00	LT & RT	20	2	5	180	82
	20+00 - 21+50	LT & RT	25	3	6	240	125
	21+50 - 28+50	LT & RT	55	6	10	510	245
	28+50 - 32+25	LT & RT	40	5	9	380	185
	32+25 - 36+50	LT & RT	30	4	7	290	155
	36+50 - 40+75	LT & RT	35	4	8	330	170
	40+75 - 42+75	LT & RT	15	2	4	160	88
	42+75 - 44+75	LT & RT	35	4	8	310	150
	44+75 - 48+00	LT & RT	40	5	9	380	210
	48+00 - 54+50	LT & RT	60	7	15	560	295
	54+50 - 59+25	LT & RT	40	4	9	350	190
	59+25 - 64+50	LT & RT	40	5	9	380	195
	64+50 - 67+75	LT & RT	35	4	7	300	145
	67+75 - 71+00	LT & RT	40	4	8	340	170
	72+50 - 78+50	LT & RT	60	7	15	550	275
	78+50 - 84+00	LT & RT	55	6	15	520	265
	84+00 - 92+00	LT & RT	65	7	15	560	265
	92+00 - 95+00	LT & RT	20	2	5	190	98
	95+00 - 96+45	LT & RT	9	1	2	80	37
	TOTALS		749	85	173	6,880	3,495

STORM SEWER INLETS, MANHOLES, MANHOLE COVERS, AND INLET COVERS

CATEGORY	STRUCT. ID#	STATION	OFFSET	204.9060.S.01 REMOVING INLET COVERS EACH	204.9060.S.02 REMOVING MANHOLE COVERS EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0600 INLET COVERS TYPE A EACH	611.0603 INLET COVERS TYPE A-S EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9705 SALVAGED MANHOLE COVERS EACH	628.7015 INLET PROTECTION TYPE C EACH	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	1-10	14+10	68.3 RT	---	---	---	---	---	---	---	---	---	1	---
	1-11	14+56	67.9 LT	---	---	---	---	---	---	---	---	---	1	---
	1-12	14+65	54.7 LT	---	---	---	---	---	---	---	---	---	1	---
	1-13	14+59	27.0 RT	---	---	---	---	---	---	---	---	---	1	---
	1-14	17+06	24.6 RT	1	---	---	1	---	---	---	---	---	1	---
	1-15	17+03	34.7 LT	---	---	---	---	---	---	1	---	---	1	---
	1-16	17+54	22.4 RT	---	---	---	---	---	1	---	1	1	---	2
	1-17	17+68	46.0 LT	---	---	---	---	---	---	---	---	---	1	---
	1-19	17+74	38.2 RT	---	---	---	---	---	---	---	---	---	1	---
	1-20	18+06	60.4 LT	---	---	---	---	---	---	1	---	---	1	---
	1-21	17+95	24.1 RT	---	---	---	---	---	---	1	---	---	1	---
	1-22	18+39	31.9 LT	---	---	---	---	---	---	1	---	---	1	---
	2-10	20+65	24.3 LT	---	---	---	---	---	---	1	---	---	1	---
	2-11	20+74	17.1 RT	---	---	---	---	---	1	---	1	1	---	1
	2-12	20+76	24.0 RT	---	---	---	---	---	---	1	---	---	1	---
	2-13	20+86	38.0 LT	---	---	---	---	---	---	1	---	---	1	---
	2-14	21+30	60.1 LT	---	---	---	---	---	---	---	---	---	1	---
	2-15	21+53	24.4 LT	---	---	---	---	---	---	1	---	---	1	---
	2-16	23+97	23.6 RT	1	---	---	---	1	---	---	---	---	1	---
	2-17	23+97	20.5 RT	---	---	---	---	---	1	---	1	1	---	4
	2-18	23+97	24.5 LT	---	---	---	---	---	---	1	---	---	1	---
	3-10	26+00	23.7 RT	---	---	---	---	---	---	1	---	---	1	---
	3-11	26+00	18.7 RT	---	1	1	---	---	1	---	1	1	---	5
	3-12	25+98	24.6 LT	---	---	---	---	---	---	1	---	---	1	---
	3-13	27+84	41.6 LT	---	---	---	---	---	---	1	---	---	1	---
	3-14	27+87	19.4 RT	---	---	---	---	---	---	---	1	---	---	3
	3-16	28+36	19.1 RT	---	---	---	---	---	1	---	1	1	1	4
	3-17	28+39	23.9 RT	1	---	---	---	1	---	---	---	---	1	---
	3-18	28+34	23.9 LT	---	---	---	---	---	---	1	---	---	1	---
	3-19	28+13	49.6 LT	---	---	---	---	---	---	---	---	---	1	---
	4-10	31+39	19.4 RT	---	---	---	---	---	1	---	1	1	1	3
	4-11	31+37	23.7 LT	---	---	---	---	---	---	1	---	---	1	---
	4-12	31+64	44.4 LT	---	---	---	---	---	---	1	---	---	1	---
	4-13	31+99	54.1 LT	---	---	---	---	---	---	---	---	---	1	---
	4-14	32+25	24.3 RT	---	---	---	---	---	---	1	---	---	1	---
	4-15	32+25	23.9 LT	---	---	---	---	---	---	1	---	---	1	---
	4-16	36+43	23.9 RT	---	---	---	---	---	---	1	---	---	1	---
	4-17	36+43	25.2 LT	---	---	---	---	---	---	1	---	---	1	---
	4-18	35+96	46.0 LT	---	---	---	---	---	---	---	---	---	1	---
	5-10	40+04	24.2 LT	---	---	---	---	---	---	1	---	---	1	---
	5-11	40+22	23.9 RT	1	---	---	1	---	---	---	---	---	1	---
	5-12	42+18	23.9 RT	---	---	---	---	---	---	1	---	---	1	---
	5-13	42+17	24.1 LT	1	---	---	1	---	---	---	---	---	1	---
	5-14	42+49	11.3 LT	---	---	---	---	---	1	---	1	1	1	2
	6-11	44+20	23.9 RT	---	---	---	---	---	---	1	---	---	1	---
	6-12	44+85	23.8 RT	---	---	---	---	---	---	1	---	---	1	---
	6-13	44+90	24.3 LT	1	---	---	1	---	---	---	---	---	1	---
	6-14	47+01	23.8 RT	---	---	---	---	---	---	1	---	---	1	---
	6-15	46+99	24.0 LT	---	---	---	---	---	---	1	---	---	1	---
	6-16	47+22	61.2 LT	---	---	---	---	---	---	---	---	---	1	---
	6-18	47+79	59.4 LT	---	---	---	---	---	---	---	---	---	1	---
	7-10	49+55	24.1 RT	---	---	---	---	---	---	1	---	---	1	---
	7-11	49+55	36.0 LT	---	---	---	---	---	---	1	---	---	1	---
	7-13	51+40	36.5 LT	1	---	---	1	---	---	---	---	---	1	---

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONT. NEXT SHEET

STORM SEWER INLETS, MANHOLES, MANHOLE COVERS, AND INLET COVERS (CONT.)

CATEGORY	STRUCT. ID#	STATION	OFFSET	204.9060.S.01 REMOVING INLET COVERS EACH	204.9060.S.02 REMOVING MANHOLE COVERS EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0600 INLET COVERS TYPE A EACH	611.0603 INLET COVERS TYPE A-S EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	611.9705 SALVAGED MANHOLE COVERS EACH	628.7015 INLET PROTECTION TYPE C EACH	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	7-14	52+51	23.8 RT	---	---	---	---	---	---	1	---	---	1	---
	7-15	52+51	36.1 LT	---	---	---	---	---	---	1	---	---	1	---
	7-16	53+62	47.6 RT	---	---	---	---	---	---	---	---	---	1	---
	7-18	54+29	60.6 RT	---	---	---	---	---	---	---	---	---	1	---
	7-19	54+54	36.2 LT	1	---	---	1	---	---	---	---	---	1	---
	7-20	54+77	25.6 RT	---	---	---	---	---	---	1	---	---	1	---
	8-11	58+49	23.8 RT	---	---	---	---	---	---	1	---	---	1	---
	8-13	59+03	43.9 RT	---	---	---	---	---	---	---	---	---	1	---
	8-14	59+27	23.5 RT	---	---	---	---	---	---	1	---	---	1	---
	8-15	59+26	24.0 LT	---	---	---	---	---	---	1	---	---	1	---
	9-11	63+89	23.6 RT	---	---	---	---	---	---	1	---	---	1	---
	9-12	63+86	24.5 LT	1	---	---	1	---	---	---	---	---	1	---
	9-13	64+11	46.8 RT	---	---	---	---	---	---	---	---	---	1	---
	9-15	64+42	44.4 RT	---	---	---	---	---	---	---	---	---	1	---
	9-16	64+65	23.6 RT	---	---	---	---	---	---	1	---	---	1	---
	9-17	65+17	23.1 RT	---	1	1	---	---	---	---	1	---	---	9
	9-18	65+17	21.2 LT	---	---	---	---	---	1	---	1	1	---	9
	10-10	67+22	23.8 RT	---	---	---	---	---	---	1	---	---	1	---
	10-11	67+19	24.4 LT	---	---	---	---	---	---	1	---	---	1	---
	10-13	67+88	27.8 RT	---	---	---	---	---	---	1	---	---	1	---
	10-14	67+86	25.1 RT	---	---	---	---	---	1	---	1	1	---	7
	11-11	76+88	24.0 LT	---	---	---	---	---	---	1	---	---	1	---
	11-12	77+62	32.0 RT	---	---	---	---	---	---	1	---	---	1	---
	11-13	77+70	49.4 LT	---	---	---	---	---	---	---	---	---	1	---
	11-14	78+31	78.7 LT	---	---	---	---	---	---	---	---	---	1	---
	11-15	78+60	31.3 RT	---	---	---	---	---	---	---	---	---	1	---
	12-11	83+40	24.3 RT	1	---	---	1	---	---	---	---	---	1	---
	12-13	84+23	24.5 RT	---	---	---	---	---	---	1	---	---	1	---
	12-14	84+22	23.6 LT	---	---	---	---	---	---	1	---	---	1	---
	13-10	86+45	24.8 RT	---	---	---	---	---	---	1	---	---	1	---
	13-11	86+46	23.3 LT	---	---	---	---	---	---	1	---	---	1	---
	13-13	88+70	24.7 RT	---	---	---	---	---	---	1	---	---	1	---
	13-14	88+83	23.2 LT	---	---	---	---	---	---	1	---	---	1	---
	14-10	91+45	24.3 RT	---	---	---	---	---	---	1	---	---	1	---
	14-11	91+40	23.5 LT	---	---	---	---	---	---	1	---	---	1	---
	14-13	92+29	24.3 RT	---	---	---	---	---	---	1	---	---	1	---
	14-14	92+23	23.7 LT	---	---	---	---	---	---	1	---	---	1	---
	14-16	95+28	24.0 RT	---	---	---	---	---	---	1	---	---	1	---
	14-17	95+34	24.2 LT	---	---	---	---	---	---	1	---	---	1	---
	SUBTOTALS (0010)			10	2	2	8	2	9	52	11	9	85	49
0040	1-18	17+72	22.5 RT	---	---	---	---	---	1	---	1	1	---	1
	3-15	27+88	1.9 LT	---	---	---	---	---	1	---	1	1	---	1
	6-10	43+12	0.5 LT	---	---	---	---	---	1	---	1	1	---	1
	6-17	47+49	0.4 LT	---	---	---	---	---	1	---	1	1	---	1
	7-12	50+66	0.3 LT	---	---	---	---	---	1	---	1	1	---	1
	7-17	54+16	0.4 LT	---	---	---	---	---	1	---	1	1	---	2
	8-10	56+66	0.5 RT	---	---	---	---	---	1	---	1	1	---	1
	8-12	58+85	0.8 RT	---	---	---	---	---	1	---	1	1	---	1
	9-10	61+56	0.1 RT	---	---	---	---	---	1	---	1	1	---	1
	9-14	64+26	0.3 RT	---	---	---	---	---	1	---	1	1	---	1
	10-12	67+64	0.1 LT	---	---	---	---	---	1	---	1	1	---	1
	10-15	72+96	19.5 RT	---	---	---	---	---	1	---	1	1	---	5
	11-10	76+61	18.4 RT	---	---	---	---	---	1	---	1	1	---	1
	12-10	80+93	0.0	---	---	---	---	---	1	---	1	1	---	4
	12-12	83+90	0.5 RT	---	---	---	---	---	1	---	1	1	---	1
	13-12	86+70	0.5 RT	---	---	---	---	---	1	---	1	1	---	1
	13-15	88+96	0.4 RT	---	---	---	---	---	1	---	1	1	---	1
	14-12	91+94	1.2 RT	---	---	---	---	---	1	---	1	1	---	1
	14-15	94+97	1.0 RT	---	---	---	---	---	1	---	1	1	---	1
	SUBTOTALS (0040)			0	0	0	0	0	19	0	19	19	0	27
	TOTALS			10	2	2	8	2	28	52	30	28	85	76

3

ASPHALTIC ITEMS

CATEGORY	STAGE	STATION -	STATION	LOCATION	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0605 TACK COAT GAL	460.1110 HMA PAVEMENT TYPE E-10 TON
0010	1	14+50 -	18+25	LT	6	23	100
		14+50 -	18+25	RT	3	12	54
		18+25 -	20+00	LT	2	6	27
		18+25 -	20+00	RT	1	6	25
		20+00 -	21+50	LT	1	6	24
		20+00 -	21+50	RT	1	5	23
		21+50 -	28+50	LT	6	30	115
		21+50 -	28+50	RT	6	20	110
		28+50 -	32+25	LT	3	10	59
		28+50 -	32+25	RT	3	10	59
		32+25 -	36+50	LT	4	20	68
		32+25 -	36+50	RT	4	20	68
		36+50 -	40+75	LT	4	20	68
		36+50 -	40+75	RT	4	20	67
		40+75 -	42+75	LT	2	7	32
		40+75 -	42+75	RT	2	7	31
		42+75 -	44+75	LT	2	7	32
		42+75 -	44+75	RT	2	7	31
		44+75 -	48+00	LT	3	10	53
		44+75 -	48+00	RT	3	10	51
		48+00 -	54+50	LT	10	40	175
		48+00 -	54+50	RT	6	20	100
		SUBTOTALS (STAGE 1)			76	316	1,372
	2	14+50 -	18+25	LT	4	18	79
		14+50 -	18+25	RT	4	17	74
		18+25 -	20+00	LT	2	6	27
		18+25 -	20+00	RT	2	10	43
		20+00 -	21+50	LT	3	10	45
		20+00 -	21+50	RT	1	5	24
		21+50 -	28+50	LT	7	28	125
		21+50 -	28+50	RT	6	30	110
		28+50 -	32+25	LT	4	20	78
		28+50 -	32+25	RT	3	10	60
		32+25 -	36+50	LT	4	18	79
		32+25 -	36+50	RT	4	15	67
		36+50 -	40+75	LT	5	20	85
		36+50 -	40+75	RT	4	20	68
		40+75 -	42+75	LT	2	10	44
		40+75 -	42+75	RT	2	7	32
		42+75 -	44+75	LT	2	7	32
		42+75 -	44+75	RT	2	9	39
		44+75 -	48+00	LT	3	10	56
		44+75 -	48+00	RT	3	10	52
		48+00 -	54+50	LT	7	30	130
		48+00 -	54+50	RT	6	30	115
		SUBTOTALS (STAGE 2)			81	341	1,464

ASPHALTIC ITEMS (CONT.)

CATEGORY	STAGE	STATION -	STATION	LOCATION	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0605 TACK COAT GAL	460.1110 HMA PAVEMENT TYPE E-10 TON
	3	54+50 -	59+25	LT	6	24	105
		54+50 -	59+25	RT	4	16	73
		59+25 -	64+50	LT	5	20	86
		59+25 -	64+50	RT	5	20	82
		64+50 -	67+75	LT	3	10	54
		64+50 -	67+75	RT	3	12	51
		67+75 -	71+00	LT	3	12	51
		67+75 -	71+00	RT	4	20	81
		72+50 -	78+50	LT	5	20	84
		72+50 -	78+50	RT	9	40	170
		78+50 -	84+00	LT	5	20	88
		78+50 -	84+00	RT	5	21	93
		84+00 -	92+00	LT	7	30	120
		84+00 -	92+00	RT	7	30	135
		92+00 -	95+00	LT	3	10	47
		92+00 -	95+00	RT	3	11	49
		95+00 -	96+45	LT	1	5	23
		95+00 -	96+45	RT	1	5	23
		SUBTOTALS (STAGE 2)			78	326	1,415
	4	54+50 -	59+25	LT	4	18	78
		54+50 -	59+25	RT	5	20	89
		59+25 -	64+50	LT	5	20	83
		59+25 -	64+50	RT	5	20	94
		64+50 -	67+75	LT	3	10	51
		64+50 -	67+75	RT	3	14	61
		67+75 -	71+00	LT	3	12	53
		67+75 -	71+00	RT	3	10	47
		72+50 -	78+50	LT	5	20	87
		72+50 -	78+50	RT	6	20	110
		78+50 -	84+00	LT	5	20	86
		78+50 -	84+00	RT	6	23	100
		84+00 -	92+00	LT	7	30	125
		84+00 -	92+00	RT	8	30	140
		92+00 -	95+00	LT	3	10	47
		92+00 -	95+00	RT	3	14	63
		95+00 -	96+45	LT	1	5	23
		95+00 -	96+45	RT	1	6	25
		SUBTOTALS (STAGE 2A)			75	302	1,362
		TOTALS			310	1,285	5,613

MISCELLANEOUS ASPHALTIC ITEMS

CATEGORY	LOCATION	465.0110 ASPAHLTIC SURFACE PATCHING TON	465.0125 ASPAHLTIC SURFACE TEMPORARY TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	690.0150 SAWING ASPHALT LF	REMARKS
0010	UNDISTRIBUTED	100	---	---	---	---	FOR MISC. REPAIRS TO EXISTING PAVEMENT DURING CONSTRUCTION
	UNDISTRIBUTED	---	400	---	---	---	WEDGES AT INTERSECTIONS, MANHOLES, AND VALVE BOXES
	SUBTOTALS (0010)	100	400	0	0	0	
0020	UNDISTRIBUTED	---	---	2	6	120	FOR MISC. REPAIRS AT LIGHT POLE BASES
	SUBTOTALS (0020)	0	0	2	6	120	
	TOTALS	100	400	2	6	120	

MOBILIZATIONS EROSION CONTROL

CATEGORY	STAGE	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	STAGE 1	1	2
	STAGE 3	1	2
	TOTALS	2	4

FINISHING ITEMS

CATEGORY	LOCATION	625.0100 TOPSOIL SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEED MIXTURE NO. 40 LB	624.0100 WATER MGAL
0020	SIDEWALK REPLACEMENT AREAS	60	60	0.1	1	0.1

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NUMBER	APPROX. STA.	LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W X H) IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	REMARKS
0010	1 - 1	14+59	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	1 - 2	14+58	RT	S4-5	REDUCED SPEED-SCHOOL ZONE	36 X 36	9.00	---	---	ATTACH TO SIGNAL POLE
	1 - 3	14+46	LT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE
	1 - 4	14+46	LT	W12-1D	DOUBLE ARROWS	24 X 24	4.00	---	---	ATTACH TO SIGNAL POLE
	1 - 5	14+63	LT/RT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE
	1 - 6	16+96	RT	S1-1	PEDESTRIAN CROSSING	36 X 36	9.00	---	---	ATTACH TO LIGHT POLE
	1 - 7	16+96	RT	WF16-9P	AHEAD	24 X 12	2.00	---	---	ATTACH TO LIGHT POLE
	1 - 8	16+96	RT	R2-6P	FINES HIGHER	24 X 18	3.00	---	---	ATTACH TO LIGHT POLE
	1 - 9	17+49	LT	R3-5L	LEFT TURN ONLY	42 X 48	14.00	---	---	ATTACH TO EXISTING SIGN SUPPORT
	1 - 10	17+49	LT	R3-5A	THROUGH ONLY	42 X 48	14.00	---	---	ATTACH TO EXISTING SIGN SUPPORT
	1 - 11	17+49	LT	R3-6R	THROUGH AND RIGHT	42 X 48	14.00	---	---	ATTACH TO EXISTING SIGN SUPPORT
	1 - 12	17+37	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO EXISTING SIGN POST
	1 - 13	17+72	LT	R1-1	STOP SIGN	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	1 - 14	17+76	RT	R1-1	STOP SIGN	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	1 - 15	18+22	LT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO EXISTING SIGN POST
	1 - 16	18+36	LT	R2-1	SPEED LIMIT (35)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	1 - 17	18+36	LT	S5-2	END SCHOOL ZONE	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	2 - 1	19+26	RT	S4-51	SCHOOL SPEED LIMIT	24 X 48	8.00	---	---	ATTACH TO LIGHT POLE
	2 - 2	19+26	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	2 - 3	20+18	LT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	2 - 4	19+30	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO EXISTING SIGN POST
	2 - 5	19+89	RT	R1-1	STOP SIGN	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	2 - 6	20+80	RT	S1-1	PEDESTRIAN CROSSING	36 X 36	9.00	---	---	ATTACH TO EXISTING SIGN POST
	2 - 7	20+80	RT	WF16-7L	DOWNWARD DIRECTIONAL ARROW	24 X 12	2.00	---	---	ATTACH TO EXISTING SIGN POST
	2 - 8	20+83	LT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	2 - 9	20+82	LT	S1-1	PEDESTRIAN CROSSING	36 X 36	9.00	---	1	---
	2 - 10	20+82	LT	WF16-7L	DOWNWARD DIRECTIONAL ARROW	24 X 12	2.00	---	---	POST ACCOUNTED FOR IN 2-9
	2 - 11	22+50	LT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	2 - 12	23+61	RT	R2-1	SPEED LIMIT (35)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	2 - 13	23+61	RT	S5-2	END SCHOOL ZONE	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	2 - 14	23+61	RT	R7-4D	NO STOPPING OR STANDING	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	2 - 15	24+69	LT	S4-51	SCHOOL SPEED LIMIT	24 X 48	8.00	---	---	ATTACH TO LIGHT POLE
	3 - 1	26+10	RT	J4-1	REASSURANCE ASSEMBLY	24 X 48	8.00	---	---	M3-1, M4-3, M1-4, ATTACH TO LIGHT POLE
	3 - 2	27+45	LT	S1-1	PEDESTRIAN CROSSING	36 X 36	9.00	---	---	ATTACH TO LIGHT POLE
	3 - 3	27+45	LT	WF16-9P	AHEAD	24 X 12	2.00	---	---	ATTACH TO LIGHT POLE
	3 - 4	27+45	LT	R2-6P	FINES HIGHER	24 X 18	3.00	---	---	ATTACH TO LIGHT POLE
	3 - 5	27+81	LT	R1-1	STOP SIGN	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	3 - 6	28+68	RT	W11-1	BICYCLES	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	3 - 7	28+68	RT	W16-1P	SHARE THE ROAD	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	3 - 8	28+68	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	3 - 9	30+00	LT	S4-5	REDUCED SPEED-SCHOOL ZONE	36 X 36	9.00	---	---	ATTACH TO LIGHT POLE
	4 - 1	31+57	LT	R1-1	STOP SIGN	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	4 - 2	32+23	LT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	4 - 3	35+86	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO UTILITY POLE
	4 - 4	35+91	LT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	4 - 5	36+97	LT	R7-4D	NO STOPPING OR STANDING	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	5 - 1	38+20	RT	R7-4D	NO STOPPING OR STANDING	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	5 - 2	40+21	LT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	5 - 3	41+16	RT	R2-1	SPEED LIMIT (35)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	5 - 4	41+16	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	5 - 5	42+34	LT	R1-1	STOP SIGN	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	6 - 1	44+29	RT	R3-1	NO RIGHT TURNS	24 X 24	4.00	---	1	---
	6 - 2	44+67	RT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	6 - 3	44+67	RT	R5-1	DO NOT ENTER	30 X 30	6.25	---	---	POST ACCOUNTED FOR IN 6-2
	6 - 4	44+68	LT	W11-1	BICYCLES	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	6 - 5	44+68	LT	W16-1P	SHARE THE ROAD	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	6 - 6	46+91	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	6 - 7	46+73	LT	J4-1	REASSURANCE ASSEMBLY	24 X 48	8.00	---	---	M3-3, M4-3, M1-4, ATTACH TO LIGHT POLE
	6 - 8	46+94	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	6 - 9	47+18	LT	R10-6	STOP HERE ON RED	24 X 36	6.00	---	---	ATTACH TO LIGHT POLE
	6 - 10	47+18	LT	R10-4R	PUSH BUTTON TO CROSS	9 X 12	0.75	---	---	ATTACH TO EXISTING SIGN POST
	6 - 11	47+20	LT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POST
	6 - 12	47+73	LT	R1-2	YIELD SIGN	36 X 31	7.75	---	---	ATTACH TO EXISTING SIGN POST
	6 - 13	48+08	LT	R1-2	YIELD SIGN	36 X 31	7.75	---	1	---
	6 - 14	48+08	LT	R1-53	RIGHT TURN OBEY THIS SIGN	24 X 30	5.00	---	---	POST ACCOUNTED FOR IN 6-13

CONT. NEXT SHEET

PERMANENT SIGNING SUMMARY (CONT.)

CATEGORY	SIGN NUMBER	APPROX. STA.	LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W X H) IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	REMARKS
0010	6 - 15	48+06	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	6 - 16	48+12	RT	J1-1	JUNCTION COUNTY N	24 X 39	6.18	---	---	M2-1, M1-5A, ATTACH TO LIGHT POLE
	6 - 17	48+09	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	7 - 1	49+48	LT	D11-1	BIKE ROUTE	24 X 18	3.00	---	---	ATTACH TO LIGHT POLE
	7 - 2	49+48	LT	M7-1	DIRECTIONAL ARROW	12 X 9	0.75	---	---	ATTACH TO LIGHT POLE
	7 - 3	50+57	RT	D9-2	HOSPTIAL	24 X 24	4.00	---	---	ATTACH TO LIGHT POLE
	7 - 4	50+57	RT	MB 6-1	DIRECTIONAL ARROW	21 X 21	3.06	---	---	ATTACH TO LIGHT POLE
	7 - 5	51+86	LT	W11-1	BICYCLES	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	7 - 6	51+86	LT	W16-1P	SHARE THE ROAD	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	7 - 7	52+78	RT	J12-1	JUNCTION ASSEMBLY	45 X 24	7.06	---	---	M1-5A, M6-6, ATTACH TO LIGHT POLE
	7 - 8	53+48	RT	R1-2	YIELD SIGN	36 X 31	7.75	---	1	---
	7 - 9	53+48	RT	R1-53	RIGHT TURN OBEY THIS SIGN	24 X 30	5.00	---	---	POST ACCOUNTED FOR IN 7-8
	7 - 10	53+68	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	7 - 11	53+71	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	7 - 12	53+77	RT	D11-1	BIKE ROUTE	24 X 18	3.00	---	---	ATTACH TO SIGNAL POLE
	7 - 13	53+77	RT	M7-1	DIRECTIONAL ARROW	12 X 9	0.75	---	---	ATTACH TO SIGNAL POLE
	7 - 14	54+21	RT	D9-2	HOSPTIAL	24 X 24	4.00	---	---	ATTACH TO SIGNAL POLE
	7 - 15	54+21	RT	MB 6-1	DIRECTIONAL ARROW	21 X 21	3.06	---	---	ATTACH TO SIGNAL POLE
	7 - 16	54+21	RT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE
	7 - 17	54+33	LT	J13-1	JUNCTION ASSEMBLY	45 X 24	7.06	---	---	M1-5A, M6-1, ATTACH TO LIGHT POLE
	7 - 18	54+33	LT	D11-1	BIKE ROUTE	24 X 18	3.00	---	---	ATTACH TO LIGHT POLE
	7 - 19	54+33	LT	M7-1	DIRECTIONAL ARROW	12 X 9	0.75	---	---	ATTACH TO LIGHT POLE
	7 - 20	54+52	RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	7 - 21	54+55	RT	R1-2	YIELD SIGN	36 X 31	7.75	---	---	ATTACH TO SIGNAL POLE
	7 - 22	54+56	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	8 - 1	55+54	RT	J4-1	REASSURANCE ASSEMBLY	24 X 48	8.00	---	---	M3-1, M4-3, M1-4, ATTACH TO LIGHT POLE
	8 - 2	55+54	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	8 - 3	56+52	LT	W1-4B	ROAD GOES SLIGHT RIGHT	36 X 36	9.00	---	---	ATTACH TO LIGHT POLE
	8 - 4	56+52	LT	R7-4D	NO STOPPING OR STANDING	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	8 - 5	57+37	RT	W11-1	BICYCLES	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	8 - 6	57+37	RT	W16-1P	SHARE THE ROAD	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	8 - 7	57+60	LT	R4-7	KEEP RIGHT	24 X 30	5.00	---	1	---
	8 - 8	59+10	RT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	8 - 9	59+32	LT	J12-1	JUNCTION ASSEMBLY	45 X 24	7.06	---	---	M1-5A, M5-1L,ATTACH TO LIGHT POLE
	8 - 10	60+37	RT	R2-1	SPEED LIMIT (35)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	8 - 11	56+86	LT	R4-7	KEEP RIGHT	24 X 30	5.00	---	1	ATTACH TO EXISTING SIGN POST
	9 - 1	64+49	RT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	9 - 2	64+90	RT	W1-4B	ROAD GOES SLIGHT RIGHT	36 X 36	9.00	---	---	ATTACH TO LIGHT POLE
	9 - 3	66+18	LT	J4-1	REASSURANCE ASSEMBLY	24 X 48	8.00	---	---	M3-3, M4-3, M1-4, ATTACH TO LIGHT POLE
	9 - 4	66+18	LT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	10 - 1	67+37	RT	W14-1	DEAD END	30 X 30	6.25	---	1	---
	10 - 2	67+71	RT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	10 - 3	70+08	RT	R3-5L	LEFT TURN ONLY	30 X 36	7.50	---	---	ATTACH TO EXISTING OVERHEAD SIGN SUPPORT
	10 - 4	70+08	RT	R3-5A	THROUGH LANE ONLY	30 X 36	7.50	---	---	ATTACH TO EXISTING OVERHEAD SIGN SUPPORT
	10 - 5	70+08	RT	R3-6R	THROUGH AND RIGHT	30 X 36	7.50	---	---	ATTACH TO EXISTING OVERHEAD SIGN SUPPORT
	10 - 6	70+05	RT	W3-5	REDUCED SPEED LIMIT	36 X 36	9.00	---	---	ATTACH TO OVERHEAD SIGN POLE
	10 - 7	72+59	RT	R1-1	STOP SIGN	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	10 - 8	72+73	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	11 - 1	73+59	LT	R2-1	SPEED LIMIT (35)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	11 - 2	73+59	LT	R7-4D	NO STOPPING OR STANDING	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	11 - 3	75+51	LT	W11-1	BICYCLES	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	11 - 4	75+51	LT	W16-1P	SHARE THE ROAD	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	11 - 5	76+61	RT	R5-1	DO NOT ENTER	30 X 30	6.25	---	1	---
	11 - 6	76+61	RT	R1-1	STOP SIGN	30 X 30	6.25	---	---	POST ACCOUNTED FOR IN 11-5
	11 - 7	77+07	RT	J13-1	JUNCTION ASSEMBLY	24 X 45	7.06	---	---	M1-5A, M6-1, ATTACH TO LIGHT POLE
	11 - 8	77+07	RT	R2-1	SPEED LIMIT (25)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	11 - 9	77+54	LT/RT	R3-7L	LEFT LANE MUST TURN LEFT	30 X 30	6.25	---	---	ATTACH TO EXISTING SIGN POST
	11 - 10	77+54	LT/RT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE
	11 - 11	77+54	RT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE
	11 - 12	77+55	LT/RT	R4-7	KEEP RIGHT	24 X 30	5.00	---	---	ATTACH TO SIGNAL POLE
	11 - 13	77+55	LT/RT	R3-2	NO LEFT TURN	24 X 24	4.00	---	---	ATTACH TO SIGNAL POLE
	11 - 14	77+62	LT	R1-2	YIELD SIGN	36 X 31	7.75	---	---	ATTACH TO LIGHT POLE
	11 - 15	77+62	LT	R1-53	RIGHT TURN OBEY THIS SIGN	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	11 - 16	77+84	RT	D11-1	BIKE ROUTE	24 X 18	3.00	---	---	ATTACH TO SIGNAL POLE
	11 - 17	77+84	RT	R14-1	TRUCK ROUTE	24 X 18	3.00	---	---	ATTACH TO SIGNAL POLE
	11 - 18	77+91	LT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE

CONT. NEXT SHEET

PERMANENT SIGNING SUMMARY (CONT.)

CATEGORY	SIGN NUMBER	APPROX. STA.	LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W X H) IN	637.0202 SIGNS REFLECTIVE TYPE II SF	637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	REMARKS
0010	11 - 19	77+91	LT	W12-1D	DOUBLE ARROWS	24 X 24	4.00	---	---	ATTACH TO SIGNAL POLE
	11 - 20	78+36	RT	R10-11B	NO TURN ON RED	24 X 24	4.00	---	---	ATTACH TO SIGNAL POLE
	11 - 21	78+36	RT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE
	11 - 22	78+85	LT	R1-1F	FOLDING STOP SIGN	30 X 30	---	6.25	---	ATTACH TO SIGNAL POLE
	11 - 23	78+41	LT	R10-11B	NO TURN ON RED	24 X 24	4.00		---	ATTACH TO SIGNAL POLE
	11 - 24	78+87	LT	R3-2	NO LEFT TURN	24 X 24	4.00	---	---	ATTACH TO LIGHT POLE
	11 - 25	78+87	LT	J12-1	JUNCTION ASSEMBLY	24 X 45	7.06	---	---	M1-5A, M6-6, ATTACH TO LIGHT POLE
	11 - 26	78+82	RT	W11-1	BICYCLCES	30 X 30	6.25	---	---	ATTACH TO SIGNAL POLE
	11 - 27	78+82	RT	W16-1P	SHARE THE ROAD	18 X 24	3.00	---	---	ATTACH TO SIGNAL POLE
	11 - 28	78+82	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO SIGNAL POLE
	12 - 1	80+77	LT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	12 - 2	81+68	RT	R2-1	SPEED LIMIT (25)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	12 - 3	81+68	RT	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	12 - 4	81+68	RT	W16-9P	AHEAD	24 X 8	1.33	---	---	ATTACH TO SIGNAL POLE
	12 - 5	83+39	RT	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	12 - 6	83+39	RT	W16-7L	DOWNWARD DIRECTIONAL ARROW	24 X 12	2.00	---	---	ATTACH TO LIGHT POLE
	12 - 7	83+24	LT	J1-1	JUNCTION ASSEMBLY	24 X 39	6.18	---	---	M2-1, M1-5A, ATTACH TO LIGHT POLE
	12 - 8	83+69	LT	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	---	---	ATTACH TO SIGNAL POLE
	12 - 9	83+69	LT	W16-7L	DOWNWARD DIRECTIONAL ARROW	24 X 12	2.00	---	---	ATTACH TO SIGNAL POLE
	12 - 10	84+06	RT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	13 - 1	85+64	LT	W11-2	PEDESTRIAN CROSSING	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	13 - 2	85+64	LT	W16-9P	AHEAD	24 X 8	1.33	---	---	ATTACH TO LIGHT POLE
	13 - 3	88+08	LT	R2-1	SPEED LIMIT (25)	24 X 30	5.00	---	---	ATTACH TO LIGHT POLE
	13 - 4	88+08	LT	R7-4D	NO STOPPING OR STANDING	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	14 - 1	92+11	RT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	14 - 2	92+86	LT	W11-1	BICYCLCES	30 X 30	6.25	---	---	ATTACH TO LIGHT POLE
	14 - 3	92+86	LT	W16-1P	SHARE THE ROAD	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	14 - 4	94+01	RT	J4-1	JUNCTION ASSEMBLY	24 X 39	6.18	---	---	M2-1, M1-6, ATTACH TO LIGHT POLE
	14 - 5	94+01	RT	R7-53D	NO PARKING ON THIS SIDE	18 X 24	3.00	---	---	ATTACH TO LIGHT POLE
	14 - 6	95+12	RT	R1-1	STOP SIGN	30 X 30	6.25	---	1	---
	14 - 7	96+78	LT	R6-2L	ONE WAY	24 X 30	5.00	---	1	---
	14 - 8	96+78	LT	R6-2R	ONE WAY	24 X 30	5.00	---	---	POST ACCOUNTED FOR IN 14-7
					TOTALS		807.13	56.25	19	

MOVING/REMOVING SIGN ITEMS

CATEGORY	SIGN NUMBER	DESCRIPTION	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	1E - 1	KEEP RIGHT	---	1	---	POST WILL REMAIN
	1 - 2	STOP SIGN	---	1	---	---
	1 - 3	DOUBLE ARROW	---	1	---	---
	1 - 4	STOP SIGN	---	1	---	POST WILL REMAIN
	1 - 5	PEDESTRIAN CROSSING	---	1	---	---
	1 - 6	AHEAD	---	1	---	---
	1 - 7	LEFT TURN ONLY	---	1	---	SIGN SUPPORT WILL REMAIN
	1 - 8	THROUGH LANE ONLY	---	1	---	SIGN SUPPORT WILL REMAIN
	1 - 9	THROUGH/RIGHT LANE	---	1	---	SIGN SUPPORT WILL REMAIN
	1 - 10	KEEP RIGHT	---	1	---	POST WILL REMAIN
	1 - 11	STOP SIGN	---	1	---	POST WILL REMAIN
	1 - 12	STOP SIGN	---	1	---	POST WILL REMAIN
	1 - 13	KEEP RIGHT	---	1	---	POST WILL REMAIN
	1 - 14	NO PARKING	---	1	---	---
	2 - 1	SCHOOL SPEED LIMIT	---	1	---	---
	2 - 2	NO PARKING	---	1	---	---
	2 - 3	KEEP RIGHT	---	1	---	POST WILL REMAIN
	2 - 4	STOP SIGN	---	1	---	POST WILL REMAIN
	2 - 5	PEDESTRIAN CROSSING	1	1	---	POST WILL REMAIN
	2 - 6	DOWNWARD DIAGONAL ARROW	1	1	---	POST WILL REMAIN
	2 - 7	STOP SIGN	---	1	1	---
	2 - 8	PEDESTRIAN CROSSING	1	1	1	---
	2 - 9	DOWNWARD DIAGONAL ARROW	1	1	---	POST ACCOUNTED FOR IN 2E-8
	2 - 10	NO PARKING	---	1	---	---
	2 - 11	SPEED LIMIT SIGN	---	1	---	---
	2 - 12	NO PARKING OR STOPPING	---	1	---	---
	2 - 13	SCHOOL SPEED LIMIT	---	1	---	---
	3 - 1	NORTH BUS 51	---	3	---	---
	3 - 2	PEDESTRIAN CROSSING	---	1	---	---
	3 - 3	AHEAD	---	1	---	---
	3 - 4	STOP SIGN	---	1	---	POST WILL REMAIN
	3 - 5	NO PARKING	---	1	---	---
	4 - 1	STOP SIGN	---	1	---	POST WILL REMAIN
	4 - 2	NO PARKING	---	1	---	---
	4 - 3	NO PARKING	---	1	---	---
	4 - 4	STOP SIGN	---	1	1	---
	4 - 5	NO PARKING OR STOPPING	---	1	---	---
	5 - 1	NO PARKING OR STOPPING	---	1	---	---
	5 - 2	STOP SIGN	---	1	1	---
	5 - 3	SPEED LIMIT SIGN	---	1	---	---
	5 - 4	NO PARKING	---	1	---	---
	5 - 5	STOP SIGN	---	1	---	POST WILL REMAIN
	6 - 1	NO RIGHT TURN	---	1	1	---
	6 - 2	STOP SIGN	---	1	1	---
	6 - 3	DO NOT ENTER	---	1	---	POST ACCOUNTED FOR IN 6E-2
	6 - 4	ONE WAY	---	1	1	---
	6 - 5	ONE WAY	---	1	---	POST ACCOUNTED FOR IN 6E-4
	6 - 6	GUIDE SIGN	---	---	---	REMOVED BY OTHERS
	6 - 7	STOP HERE ON RED	---	1	1	---
	6 - 8	SOUTH BUS 51	---	1	---	---
	6 - 9	TIGER BOARD	---	1	---	---
	6 - 10	TIGER BOARD	---	1	---	---
	6 - 11	STOP HERE ON RED	---	1	---	POST WILL REMAIN

CONT. ABOVE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	SIGN NUMBER	DESCRIPTION	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	6E - 13	STOP SIGN	---	1	---	---
	6 - 14	YIELD SIGN	---	1	---	POST WILL REMAIN
	6 - 15	YIELD SIGN	---	1	1	---
	6 - 16	RIGHT LANE OBEY THIS SIGN	---	1	---	POST ACCOUNTED FOR IN 6E-15
	6 - 17	DOUBLE ARROW	---	1	---	---
	6 - 18	TIGER BOARD	---	1	---	---
	6 - 19	TIGER BOARD	---	1	---	---
	6 - 20	JUNCTION NORTH	---	2	---	---
	7 - 1	BIKE ROUTE	---	1	---	---
	7 - 2	HOSPITAL AHEAD	---	1	---	---
	7 - 3	RIGHT LANE MUST TURN RIGHT	---	1	---	---
	7 - 4	COUNTY N	---	1	---	---
	7 - 5	JUNCTION ARROWS	---	1	---	---
	7 - 6	YIELD SIGN	---	1	1	---
	7 - 7	RIGHT LANE OBEY THIS SIGN	---	1	---	POST ACCOUNTED FOR IN 7E-6
	7 - 8	BIKE ROUTE	---	1	---	---
	7 - 9	TIGER BOARD	---	1	---	---
	7 - 10	TIGER BOARD	---	1	---	---
	7 - 11	HOSPITAL	---	1	---	---
	7 - 12	RIGHT ARROW	---	1	---	---
	7 - 13	STOP SIGN	---	1	---	---
	7 - 14	COUNTY N	---	1	---	---
	7 - 15	LEFT ARROW	---	1	---	---
	7 - 16	BIKE ROUTE	---	1	---	---
	7 - 17	TIGER BOARD	---	1	---	---
	7 - 18	YIELD SIGN	---	1	---	---
	7 - 19	TIGER BOARD	---	1	---	---
	8 - 1	NORTH BUS 51	---	3	---	---
	8 - 2	NO PARKING ON THIS SIDE OF STREET	---	1	---	---
	8 - 3	NO STOPPING OR STANDING	---	1	---	---
	8 - 4	BICYCLES MUST USE SIDEWALK	---	1	---	---
	8 - 5	KEEP RIGHT	---	1	---	POST WILL REMAIN
	8 - 6	STOP SIGN	---	1	1	---
	8 - 7	COUNTY N LEFT	---	1	---	---
	8 - 8	SPEED LIMIT	---	1	---	---
	9 - 1	STOP SIGN	---	1	1	---
	9 - 2	SLIGHT RIGHT AHEAD	---	1	---	---
	9 - 3	SOUTH BUSINESS 51	---	1	---	---
	9 - 4	NO PARKING ON THIS SIDE OF STREET	---	1	---	---
	1 - 1	SLIGHT RIGHT AHEAD	---	1	---	---
	1 - 2	DEAD END	---	1	1	---
	1 - 3	STOP SIGN	---	1	1	---
	1 - 4	LEFT ONLY	---	1	---	SIGN SUPPORT WILL REMAIN
	1 - 5	THROUGH ONLY	---	1	---	SIGN SUPPORT WILL REMAIN
	1 - 6	REDUCED SPEED AHEAD	---	1	---	SIGN SUPPORT WILL REMAIN
	1 - 7	THROUGH OR RIGHT	---	1	---	SIGN SUPPORT WILL REMAIN
	1 - 8	LEFT TURN ONLY	---	1	1	---
	1 - 9	STOP SIGN	---	1	---	---
	1 - 10	NO PARKING ON THIS SIDE OF STREET	---	1	---	---
	1 - 1	SPEED LIMIT	---	1	---	---

CONT. NEXT SHEET

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	SIGN NUMBER	DESCRIPTION	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	11 - 2	NO STOPPING OR STANDING	---	1	---	---
	1 - 3	BICYCLES MUST USE SIDEWALK	---	1	---	---
	1 - 4	GUIDE SIGN	---	---	---	REMOVED BY OTHERS
	1 - 5	DO NOT ENTER	---	1	1	---
	1 - 6	STOP SIGN	---	1	---	POST ACCOUNTED FOR IN 11E-5
	1 - 7	COUNTY N	---	2	---	---
	1 - 8	SPEED LIMIT	---	1	---	---
	1 - 9	LEFT LANE MUST TURN LEFT	---	1	---	POST WILL REMAIN
	1 - 10	STOP SIGN	---	1	---	---
	1 - 11	KEEP RIGHT	---	1	---	---
	1 - 12	NO LEFT TURNS	---	1	---	---
	1 - 13	YIELD SIGN	---	1	---	---
	1 - 14	RIGHT LANE OBEY THIS SIGN	---	1	---	---
	1 - 15	STOP SIGN	---	1	---	---
	1 - 16	DOUBLE ARROW	---	1	---	---
	1 - 17	BIKE ROUTE	---	1	---	---
	1 - 18	TRUCK ROUTE	---	1	---	---
	1 - 19	NO TURN ON RED	---	1	---	---
	1 - 20	COUNTY N	---	2	---	---
	1 - 21	NO LEFT TURNS	---	2	---	---
	1 - 22	STOP SIGN	---	1	---	---
	1 - 23	NO RIGHT TURN ON RED	---	1	---	---
	1 - 24	STOP SIGN	---	1	---	---
	1 - 25	NO PARKING ON THIS SIDE OF STREET	---	1	---	---
	1 - 26	BICYCLES MUST USE SIDEWALK	---	1	---	---
	1 - 1	NO PARKING ON THIS SIDE OF STREET	---	1	---	---
	1 - 2	SPEED LIMIT	---	1	---	---
	1 - 3	PEDESTRIAN CROSSING	---	1	---	---
	1 - 4	YIELD TO PEDESTRIANS	---	---	---	SIGN AND POST WILL REMAIN
	1 - 5	POLICE AND FIRE DEPARTMENTS	---	---	---	SIGN AND POST WILL REMAIN
	1 - 6	PEDESTRIAN CROSSING	1	1	---	---
	1 - 7	JUNCTION COUNTY NORTH	---	1	---	---
	1 - 8	PEDESTRIAN CROSSING	1	1	---	---
	1 - 9	POLICE AND FIRE DEPARTMENTS	---	---	---	SIGN AND POST WILL REMAIN
	1 - 10	YIELD TO PEDESTRIANS	---	---	---	SIGN AND POST WILL REMAIN
	1 - 11	STOP SIGN	---	1	1	---
	1 - 1	PEDESTRIAN CROSSING	---	1	---	---
	1 - 2	SPEED LIMIT	---	1	---	---
	1 - 3	NO STOPPING OR STANDING	---	1	---	---
	1 - 1	STOP SIGN	---	1	1	---
	1 - 2	BICYCLES MUST USE SIDEWALK	---	1	---	---
	1 - 3	JUNCTION 52	---	1	---	---
	1 - 4	NO PARKING ON THIS SIDE OF STREET	---	1	---	---
	1 - 5	STOP SIGN	---	1	1	---
	1 - 6	GUIDE SIGN	---	---	---	REMOVED BY OTHERS
	1 - 7	ONE WAY	---	1	1	---
	1 - 8	ONE WAY	---	1	---	POST ACCOUNTED FOR IN 14E-7
		TOTALS	6	151	20	

FIELD OFFICE TYPE C

CATEGORY	PROJECT	642.5201 EACH
0010	6999-02-78	1

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE

CATEGORY	PROJECT	643.0200 DAYS
0010	6999-02-78	149

TRAFFIC CONTROL COVERING SIGNS TYPE II

CATEGORY	STAGE	NUMBER OF CYCLES	NUMBER OF	643.0920 EACH
0010	1	1	1	1
	2	1	2	2
	4	1	1	1
			TOTAL	4

TRAFFIC CONTROL SUMMARY

CATEGORY	STAGE	STATION - STATION	DURATION (DAYS)	643.0300 DRUMS EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III EACH	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A EACH	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C EACH	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS EACH	643.0800 ARROW BOARDS DAYS	643.0900 SIGNS EACH	643.0900 SIGNS DAYS	643.1050 SIGNS PCMS EACH	643.1050 SIGNS PCMS DAYS	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR MARKER BASES EACH
0010	STAGE 1	BEGIN - 19+00	40	39	1,560	13	520	18	720	0	---	0	---	10	400		---	30	30
		19+00 - 25+00	40	19	760	14	560	20	800	0	---	0	---	7	280		---	52	52
		25+00 - 31+00	40	0	---	1	40	2	80	0	---	0	---	2	80		---	57	57
		31+00 - 37+00	40	0	---	12	480	16	640	0	---	0	---	6	240		---	63	63
		37+00 - 43+00	40	9	360	13	520	18	720	0	---	0	---	6	240		---	57	57
		43+00 - 49+00	40	33	1,320	4	160	8	320	0	---	0	---	5	200		---	37	37
		49+00 - 55+00	40	46	1,840	5	200	8	320	0	---	0	---	4	160		---	19	19
		55+00 - 61+00	40	50	2,000	8	320	13	520	8	320	1	40	6	240		---	0	0
		61+00 - END	40	2	80	0	---	0	---	2	80	0	---	4	160		---	0	0
		ADVANCED WARNING	40	64	2,560	2	80	4	160	8	320	1	40	7	280	2	80	0	0
		SUBTOTALS (STAGE 1)			10,480		2,880		4,280		720		80		2,280		80	315	315
	STAGE 2	BEGIN - 19+00	38	12	456	14	532	20	760	0	---	0	---	12	456		---	36	36
		19+00 - 25+00	38	9	342	15	570	22	836	0	---	0	---	9	342		---	60	60
		25+00 - 31+00	38	12	456	6	228	0	---	0	---	0	---	4	152		---	55	55
		31+00 - 37+00	38	0	---	14	532	18	684	0	---	0	---	8	304		---	68	68
		37+00 - 43+00	38	6	228	15	570	20	760	0	---	0	---	8	304		---	62	62
		43+00 - 49+00	38	35	1,330	4	152	8	304	0	---	0	---	4	152		---	49	49
		49+00 - 55+00	38	38	1,444	2	76	4	152	10	380	0	---	3	114		---	14	14
		55+00 - 61+00	38	48	1,824	9	342	13	494	8	304	1	38	5	190		---	0	0
		61+00 - END	38	2	76	0	---	0	---	2	76	0	---	4	152		---	0	0
		ADVANCED WARNING	38	37	1,406	2	76	4	152	10	380	1	38	7	266	2	76	0	0
		SUBTOTALS (STAGE 2)			7,562		3,078		4,142		1,140		76		2,432		76	344	344
	STAGE 3	43+00 - 49+00	33	0	---	0	---	0	---	0	---	0	---	5	165		---	8	8
		49+00 - 55+00	33	63	2,079	5	165	10	330	10	330	1	33	5	165		---	4	4
		55+00 - 61+00	33	17	561	7	231	9	297	0	---	0	---	4	132		---	54	54
		61+00 - 67+00	33	0	---	7	231	9	297	0	---	0	---	3	99		---	58	58
		67+00 - 73+00	33	55	1,815	11	363	17	561	8	264	0	---	9	297		---	19	19
		73+00 - 79+00	33	64	2,112	3	99	6	198	0	---	0	---	6	198		---	18	18
		79+00 - 85+00	33	46	1,518	9	297	13	429	0	---	0	---	4	132		---	46	46
		85+00 - 91+00	33	0	---	0	---	0	---	0	---	0	---	0	---		---	48	48
		91+00 - END	33	0	---	14	462	18	594	0	---	0	---	6	198		---	62	62
		ADVANCED WARNING	33	17	561	1	33	2	66	9	297	1	33	26	858	2	66	0	0
		SUBTOTALS (STAGE 3)			8,646		1,881		2,772		891		66		2,244		66	317	317
	STAGE 4	43+00 - 49+00	38	0	---	0	---	0	---	0	---	0	---	5	190		---	0	0
		49+00 - 55+00	38	51	1,938	1	38	2	76	14	532	1	38	5	190		---	3	3
		55+00 - 61+00	38	0	---	7	266	9	342	0	---	0	---	5	190		---	53	53
		61+00 - 67+00	38	0	---	7	266	9	342	0	---	0	---	4	152		---	58	58
		67+00 - 73+00	38	11	418	8	304	11	418	0	---	0	---	7	266		---	59	59
		73+00 - 79+00	38	19	722	2	76	4	152	0	---	0	---	6	228		---	33	33
		79+00 - 85+00	38	20	760	8	304	11	418	0	---	0	---	5	190		---	41	41
		85+00 - 91+00	38	27	1,026	0	---	0	---	0	---	0	---	0	---		---	20	20
		91+00 - END	38	0	---	15	570	20	760	0	---	0	---	9	342		---	63	63
		ADVANCED WARNING	38	18	684	1	38	2	76	9	342	1	38	26	988	2	76	0	0
		SUBTOTALS (STAGE 4)			5,548		1,862		2,584		874		76		2,736		76	330	330
		UNDISTRIBUTED			---		1,000		---		---		---		500		---	300	300
		TOTALS			32,236		10,701		13,778		3,625		298		10,192		298	1,606	1,606

PAVEMENT MARKING ITEMS

CATEGORY	STATION - STATIO	LOCATION	OFFSET	646.0106 EPOXY 4-INCH WHITE (SKIP/DASH) LF	646.0106 EPOXY 4-INCH YELLOW LF	646.0126 EPOXY 8-INCH (WHITE) LF	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0356 WORDS EPOXY EACH	647.0336 EPOXY BIKE SHARED LANE EACH	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 EPOXY DIAGONAL 12-INCH 25' SPA. LF	647.0766 CROSSWALK EPOXY 6-INCH LF	647.0796 EPOXY CROSSWALK 24-INCH LF
0010	14+50 - 17+75	E KENT ST TO ROSS AVE	LT/RT	180	591	150	2	1	2	24	36	1	---	122	---
	17+75 - 19+75	ROSS AVE TO PLEASANT ST	LT/RT	75	233	---	---	---	1	---	---	---	---	---	---
	19+75 - 21+50	PLEASANT ST TO BROADWAY AVE	LT/RT	50	130	---	---	---	2	---	22	---	---	216	---
	21+50 - 28+00	BROADWAY AVE TO WESTON AVE	LT/RT	325	1,363	---	---	---	6	---	---	---	---	---	---
	28+00 - 31+75	WESTON AVE TO FLEMING ST	LT/RT	175	622	---	---	---	3	---	---	---	---	---	---
	31+75 - 36+00	FLEMING ST TO BERNARD ST	LT/RT	200	741	---	---	---	4	---	---	---	---	---	---
	36+00 - 40+50	BERNARD ST TO RUDER ST	LT/RT	200	733	---	---	---	4	---	---	---	---	---	---
	40+50 - 42+50	RUDER ST TO MILLER AVE	LT/RT	75	278	---	---	---	2	---	---	---	---	---	---
	42+50 - 44+50	MILLER AVE TO MCDONALD ST	LT/RT	75	270	---	---	---	1	---	---	---	---	---	---
	44+50 - 47+75	MCDONALD ST TO STURGEON EDDY RD	LT/RT	100	417	---	---	---	3	14	22	2	---	102	---
	47+75 - 54+50	STURGEON EDDY RD TO TOWNLINE RD	LT/RT	292	1,087	604	2	2	5	19	62	4	---	138	---
	54+50 - 59+00	TOWNLINE RD TO MANSON ST	LT/RT	255	1,056	93	2	---	4	20	34	4	20	---	---
	59+00 - 64+25	MANSON ST TO SUMNER ST	LT/RT	250	925	---	---	---	4	---	---	---	---	---	---
	64+25 - 67+25	SUMNER ST TO SINGLE AVE	LT/RT	150	516	---	---	---	4	---	---	---	---	---	---
	67+25 - 72+25	SINGLE AVE TO FLORAL AVE	LT/RT	260	1,322	125	---	---	3	---	15	2	74	84	---
	72+25 - 78+50	FLORAL AVE TO E THOMAS ST	LT/RT	225	928	461	3	2	5	---	48	2	---	77	---
	78+50 - 83+75	E THOMAS ST TO HENRIETTA ST	LT/RT	250	922	---	---	---	4	---	25	---	---	110	109
	83+75 - 91+75	HENRIETTA ST TO PLUMER ST	LT/RT	375	1,467	---	---	---	7	---	---	---	---	---	---
	91+75 - 94+75	PLUMER ST TO E KICKBUSH ST	LT/RT	125	445	---	---	---	2	---	---	---	---	---	---
	94+75 - 96+45	E KICKBUSH ST TO END OF PROJECT	LT/RT	75	240	---	---	---	2	---	---	---	---	---	---
															---
		TOTALS		3,712	14,286	1,432	9	5	68	78	264	15	94	848	109
				17,998											

TEMPORARY PAVEMENT MARKINGS AND REMOVALS

CATEGORY		STATION - STATION	646.0600 REMOVING PAVEMENT MARKINGS LF	TEMPORARY PAVEMENT MARKINGS 649.0100 4-INCH (WHITE) LF	649.0100 4-INCH (YELLOW) LF	649.0100 4-INCH (WHITE DASH) 3' SEC, 5' GAP LF	649.0701 8-INCH (WHITE) LF	649.0400 REMOVABLE TAPE 4-INCH (WHITE) LF	649.0400 REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0400 REMOVABLE TAPE 4-INCH 3' SEC, 5' GAP LF	649.0801 REMOVABLE TAPE 8-INCH (WHITE) LF	649.1200 STOP LINE REMOVABLE TAPE 18-INCH (WHITE) LF	649.1700 ARROWS (WHITE) EACH
0010	STAGE 1	BEGIN - 18+25	90	---	360	18	---	74	740	---	375	---	---
		18+25 - 20+00	---	---	350	---	---	---	---	---	---	---	---
		20+00 - 21+50	---	---	300	---	---	---	---	---	---	---	---
		21+50 - 28+50	---	---	1,190	---	---	---	67	---	---	---	---
		28+50 - 32+25	---	---	750	---	---	---	---	---	---	---	---
		32+25 - 36+50	---	---	850	---	---	---	---	---	---	---	---
		36+50 - 40+75	---	---	850	---	---	---	---	---	---	---	---
		40+75 - 42+75	---	---	385	---	---	---	---	---	---	---	---
		42+75 - 44+75	---	---	280	---	---	---	52	---	---	---	---
		44+75 - 48+00	---	---	415	---	---	---	---	---	---	---	---
		48+00 - 61+50	---	120	2,040	42	210	---	---	---	---	---	---
		SUBTOTALS (STAGE 1)	90	120	7,770	60	210	74	859	0	375	0	0
	STAGE 2	BEGIN - 18+25	75	---	---	---	---	1,130	55	---	115	---	---
		18+25 - 20+00	---	---	---	---	---	350	---	---	---	---	---
		20+00 - 21+50	---	---	---	---	---	300	---	---	---	---	---
		21+50 - 28+50	---	---	---	---	---	1,250	---	---	---	---	---
		28+50 - 32+25	---	---	---	---	---	750	---	---	---	---	---
		32+25 - 36+50	---	---	---	---	---	850	---	---	---	---	---
		36+50 - 40+75	---	---	---	---	---	850	---	---	---	---	---
		40+75 - 42+75	---	---	---	---	---	390	---	---	---	---	---
		42+75 - 44+75	---	---	---	---	---	355	---	---	---	---	---
		44+75 - 48+00	---	---	---	---	---	535	---	---	---	---	---
		48+00 - 54+50	---	---	---	---	---	2,120	235	30	93	23	---
		SUBTOTALS (STAGE 2)	75	0	0	0	0	8,880	290	30	208	23	0
	STAGE 3	49+00 - 59+25	---	---	900	12	---	---	815	---	135	---	---
		59+25 - 64+50	---	---	1,050	---	---	---	---	---	---	---	---
		64+50 - 67+75	---	---	565	---	---	---	---	---	---	---	---
		67+75 - 78+50	---	---	1,710	21	---	580	150	---	170	---	---
		78+50 - 84+00	---	---	1,050	---	---	---	---	---	---	---	---
		84+00 - 92+00	---	---	1,600	---	---	---	---	---	---	---	---
		92+00 - 95+00	---	---	600	---	---	---	---	---	---	---	---
		95+00 - END	50	---	535	---	---	---	---	---	---	---	2
		SUBTOTALS (STAGE 3)	50	0	8,010	33	0	580	965	0	305	0	2
	STAGE 4	54+50 - 59+25	---	---	---	---	---	1,290	240	12	93	---	---
		59+25 - 64+50	---	---	---	---	---	1,050	---	---	---	---	---
		64+50 - 67+75	---	---	---	---	---	600	---	---	---	---	---
		67+75 - 78+50	---	---	---	---	---	1,860	---	---	---	---	---
		78+50 - 84+00	---	---	---	---	---	1,050	---	---	---	---	---
		84+00 - 92+00	---	---	---	---	---	1,550	---	---	---	---	---
		92+00 - 95+00	---	---	---	---	---	575	---	---	---	---	---
		95+00 - END	75	---	---	---	---	535	---	---	---	---	2
		SUBTOTALS (STAGE 4)	75	0	0	0	0	8,510	240	12	93	0	2
				120	15,780	93		18,044	2,354	42			
		TOTALS	290		15,993		210		20,440		981	23	4

SUMMARY OF EXISTING LIGHTING REMOVALS

CATEGORY	STATION	OFFSET		204.0195 REMOVING CONCRETE BASES EACH	653.0905 REMOVING PULL BOXES EACH	SPV.0060.01 REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY EACH
0020	15+71	44.9	LT	1	---	1
	16+97	34.0	RT	1	---	1
	18+35	42.1	LT	1	---	1
	19+28	33.8	RT	1	---	1
	20+16	34.1	LT	1	---	1
	21+34	33.7	RT	1	---	1
	22+50	34.6	LT	1	---	1
	23+62	33.5	RT	1	---	1
	24+67	34.6	LT	1	---	1
	26+12	33.3	RT	1	---	1
	27+44	33.6	LT	1	---	1
	28+70	34.1	RT	1	---	1
	29+97	34.2	LT	1	---	1
	31+10	34.0	RT	1	---	1
	32+21	33.7	LT	1	---	1
	33+50	33.8	RT	1	---	1
	34+78	33.9	LT	1	---	1
	35+96	34.0	RT	1	---	1
	36+95	33.2	LT	1	---	1
	38+22	34.0	RT	1	---	1
	39+49	34.3	LT	1	---	1
	41+17	32.9	RT	1	---	1
	42+89	33.4	LT	1	---	1
	43+76	33.6	RT	1	---	1
	44+66	34.4	LT	1	---	1
	45+64	33.7	RT	1	---	1
	46+72	34.8	LT	1	---	1
	47+90	65.2	LT	1	---	1
	48+13	33.6	RT	1	---	1
	49+46	46.5	LT	1	---	1
	50+58	33.7	RT	1	---	1
	51+84	46.7	LT	1	---	1
	52+80	33.4	RT	1	---	1
	54+32	46.3	LT	1	---	1
	55+56	33.7	RT	1	---	1
	56+50	45.8	LT	1	---	1
	57+37	35.0	RT	1	---	1
	59+29	30.8	LT	1	---	1
	60+39	33.5	RT	1	---	1
	61+57	34.6	LT	1	---	1
	62+71	33.7	RT	1	---	1
	63+53	34.4	LT	1	---	1
	64+92	33.3	RT	1	---	1
	66+16	34.6	LT	1	---	1
	67+17	33.4	RT	1	---	1
	69+08	31.0	LT	1	---	1
	69+89	48.8	RT	1	---	1
	71+15	34.6	LT	1	---	1
	72+72	48.2	RT	1	---	1
	73+57	34.4	LT	1	---	1
	74+78	48.3	RT	1	---	1
	75+49	35.2	LT	1	---	1
	77+09	41.4	RT	1	---	1
	77+61	53.7	LT	1	---	1
	78+65	41.0	RT	1	---	1
	78+86	34.7	LT	1	---	1
	80+76	34.4	LT	1	---	1
	81+70	34.0	RT	1	---	1
	83+23	34.3	LT	1	---	1
	85+62	31.5	LT	1	---	1
	88+07	33.7	LT	1	---	1
	90+33	33.5	LT	1	---	1
	92+85	33.8	LT	1	---	1
	94+02	33.9	RT	1	---	1
	95+14	35.2	LT	1	---	1
UNDISTRIBUTED				---	10	---
		TOTALS		65	10	65

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

CATEGORY	PROJECT	650.9910 LS
0010	6999-02-78	1

CONSTRUCTION STAKING

CATEGORY	STATION - STATION	650.7000 CONCRETE PAVEMENT LF	650.8000 RESURFACING REFERENCE LF
0010	MEDIAN MODIFICATIONS		
	55+20 - 56+27	107	---
	55+20 - 56+27	107	---
	68+23 - 69+98	175	---
	RESURFACING REFERENCE		
	14+26 - 96+45	---	16,450
	TOTALS	389	16,450

GLOBAL POSITIONING SATELLITES CLOCK ASSEMBLY

CATEGORY	LOCATION	SPV.0060.03 EACH
0010	KENT STREET	1
	STURGEON EDDY ROAD	1
	CTH N (TOWNLINE ROAD)	1
	EAST THOMAS STREET	1
	TOTAL	4

UTILITY LINE OPENING

CATEGORY	STAGE	SPV.0060.04 EACH
0020	STAGE 2	30
	STAGE 4	30
	TOTAL	60

TEMPORARY CROSSWALK ACCESS

CATEGORY	STAGE	LOCATION	SPV.0180.01 SY
0010	STAGE 1	E KENT STREET	15
		BROADWAY AVENUE	25
		STURGEON EDDY ROAD	30
		SUBTOTAL (STAGE 1)	70
	STAGE 2	E KENT STREET	7
		ROSS AVENUE	25
		E ROSS AVENUE	20
		PLEASANT STREET	20
		BROADWAY AVENUE	45
		WESTON AVENUE	20
		FLEMING STREET	20
		BERNARD STREET	20
		RUDER STREET	20
		MILLER AVENUE	20
		MCDONALD STREET	10
		STURGEON EDDY ROAD	25
		SUBTOTAL (STAGE 2)	252
	STAGE 3	E THOMAS STREET	25
		HENRIETTA STREET	25
		SUBTOTAL (STAGE 3)	50
	STAGE 4	MANSON STREET	20
		SUMNER STREET	20
		FLORAL AVENUE	15
		LEUBNER STREET	20
		E THOMAS STREET	20
		HENRIETTA STREET	20
		PLUMER STREET	20
		KICKBUSCH STREET	20
		SUBTOTAL (STAGE 4)	155
		TOTAL	527

ELECTRICAL WIRE LIGHTING (FESTOONS)

CATEGORY	LOCATION FROM	LOCATION TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (GROUND) LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUND) LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG (GROUND) LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG (GROUND) LF
0030	LC-1	LP-28	---	---	360	180	---	---	---	---
	LP-28	LP-26	---	---	460	230	---	---	---	---
	LP-26	LP-24	---	---	356	178	---	---	---	---
	LP-24	LP-21	---	---	674	337	---	---	---	---
	LP-21	LP-19	---	---	502	251	---	---	---	---
	LP-19	LP-17	---	---	432	216	---	---	---	---
	LP-17	LP-15	---	---	512	256	---	---	---	---
	LP-15	LP-13	---	---	444	222	---	---	---	---
	LC-1	LP-11	---	---	---	---	---	---	4,244	2122
	LP-11	LP-9	---	---	---	---	---	---	600	300
	LP-9	LP-7	---	---	---	---	---	---	480	240
	LP-7	LP-5	---	---	---	---	---	---	506	253
	LP-5	LP-3	---	---	---	---	---	---	410	205
	LP-3	LP-1	---	---	---	---	---	---	566	283
	LC-1	LP-27	---	---	---	---	708	354	---	---
	LP-27	LP-25	---	---	---	---	410	205	---	---
	LP-25	LP-23	---	---	---	---	440	220	---	---
	LP-23	LP-22	---	---	---	---	270	135	---	---
	LP-22	LP-20	---	---	---	---	534	267	---	---
	LP-20	LP-18	---	---	---	---	500	250	---	---
	LP-18	LP-16	---	---	---	---	500	250	---	---
	LP-16	LP-14	---	---	---	---	500	250	---	---
	LC-1	LP-12	---	---	---	---	---	---	4,080	2,040
	LP-12	LP-10	---	---	---	---	---	---	560	280
	LP-10	LP-8	---	---	---	---	---	---	544	272
	LP-8	LP-6	---	---	---	---	---	---	500	250
	LP-6	LP-4	---	---	---	---	---	---	460	230
	LP-4	LP-2	---	---	---	---	---	---	460	230
	LC-1	PB-27	---	---	---	---	---	---	1,214	607
	PB-27	LP-32	---	---	---	---	---	---	862	431
	LP-32	LP-29	---	---	---	---	---	---	410	205
	LP-29	LP-34	---	---	---	---	---	---	484	242
	LP-34	LP-36	---	---	---	---	---	---	592	296
	LP-36	LP-38	---	---	---	---	---	---	490	245
	LP-38	LP-40	---	---	---	---	---	---	568	284
	LP-40	LP-42	---	---	---	---	---	---	470	235
	LC-1	LP-44	---	---	---	---	3,796	1,898	---	---
	LP-44	LP-46	---	---	---	---	500	250	---	---
	LP-46	LP-47	---	---	---	---	258	129	---	---
	LP-47	LP-48	---	---	---	---	214	107	---	---
	LP-48	LP-49	---	---	---	---	170	85	---	---
	LC-1	LP-30	192	96	---	---	---	---	---	---
	LP-30	LP-31	372	186	---	---	---	---	---	---
	LP-31	LP-33	540	270	---	---	---	---	---	---
	LP-33	LP-35	480	240	---	---	---	---	---	---
	LP-35	LP-37	568	284	---	---	---	---	---	---
	LP-37	LP-39	534	267	---	---	---	---		
	LC-1	LP-41	---	---	2906	1453	---	---	---	---
	LP-41	LP-43	---	---	390	195	---	---	---	---
	LP-43	LP-45	---	---	522	261	---	---	---	---
	LP-45	LP-50	---	---	1000	500	---	---	---	---
	LC-2	LP-61	---	---	476	238	---	---	---	---
	LP-61	LP-59	---	---	492	246	---	---	---	---
	LP-59	LP-58	---	---	210	105	---	---	---	---
	LP-58	LP-57	---	---	170	85	---	---	---	---
	LP-57	LP-56	---	---	290	145	---	---	---	---

CONT. NEXT SHEET

ELECTRICAL WIRE LIGHTING (FESTOONS)(CONT.)

CATEGORY	LOCATION FROM	LOCATION TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (GROUND) LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUND) LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG (GROUND) LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG (GROUND) LF
0030	LP-56	LP-54	---	---	370	185	---	---	---	---
	LP-54	LP-52	---	---	460	230	---	---	---	---
	LC-2	LP-60	810	405	---	---	---	---	---	---
	LP-60	LP-72	620	310	---	---	---	---	---	---
	LP-72	LP-55	330	165	---	---	---	---	---	---
	LP-55	LP-53	504	252	---	---	---	---	---	---
	LP-53	LP-51	420	210	---	---	---	---	---	---
	LC-2	LP-62	320	160	---	---	---	---	---	---
	LP-62	LP-63	312	156	---	---	---	---	---	---
	LP-63	LP-64	292	146	---	---	---	---	---	---
	LP-64	LP-65	194	97	---	---	---	---	---	---
	LP-65	LP-66	206	103	---	---	---	---	---	---
	LC-2	LP-67	---	---	1,220	610	---	---	---	---
	LP-67	LP-68	---	---	346	173	---	---	---	---
	LP-68	LP-69	---	---	256	128	---	---	---	---
	LP-69	PB-42	---	---	30	15	---	---	---	---
	PB-42	LP-70	---	---	352	176	---	---	---	---
	PB-42	LP-71	---	---	480	240	---	---	---	---
SUBTOTALS			6,694	3,347	13,710	6,855	8,800	4,400	18,500	9,250
TOTALS			10,041		20,565		13,200		27,750	

STREET LIGHTING SUMMARY (POLE LUMINAIRE)

CATEGORY	BASE NO.	STATION	LOCATION	SPV.0060.06 LED LIGHT FIXTURE (HOLOPHANE) EACH	655.0610 ELECTRICAL WIRE LIGHTING (FESTOON OUTLETS) 12 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING (FESTOON OUTLETS) 12 AWG (GROUND) LF
0030	LP-1	15+71	45.11'LT	1	40	20
	LP-2	16+97	33.05'RT	1	40	20
	LP-3	18+34	41.25'LT	1	40	20
	LP-4	19+27	33.47'RT	1	40	20
	LP-5	20+16	33.59'RT	1	40	20
	LP-6	21+34	33.73'RT	1	40	20
	LP-7	22+49	33.89'LT	1	40	20
	LP-8	23+62	32.97'RT	1	40	20
	LP-9	24+66	34.26'LT	1	40	20
	LP-10	26+11	31.57'RT	1	40	20
	LP-11	27+43	32.76'LT	1	40	20
	LP-12	28+69	33.17'RT	1	40	20
	LP-13	29+97	33.71'LT	1	40	20
	LP-14	31+09	32.87'RT	1	40	20
	LP-15	32+21	32.57'LT	1	40	20
	LP-16	33+50	32.81'RT	1	40	20
	LP-17	34+78	33.15'LT	1	40	20
	LP-18	35+96	32.88'RT	1	40	20
	LP-19	36+95	33.38'LT	1	40	20
	LP-20	38+21	32.47'RT	1	40	20
	LP-21	39+48	32.96'LT	1	40	20
	LP-22	40+66	32.47'RT	1	40	20
	LP-23	41+79	35.30'RT	1	40	20
	LP-24	42+87	33.46'LT	1	40	20
	LP-25	43+76	33.04'RT	1	40	20
	LP-26	44+67	33.18'LT	1	40	20
	LP-27	45+63	32.41'RT	1	40	20
	LP-28	46+71	34.82'LT	1	40	20
	LP-29	48+13	33.59'RT	1	40	20
	LP-30	47+88	65.07'LT	1	40	20

CONT. NEXT SHEET

STREET LIGHTING SUMMARY (POLE LUMINAIRE)(CONT.)

CATEGORY	BASE NO.	STATION	LOCATION	SPV.0060.06 LED LIGHT FIXTURE (HOLOPHANE) EACH	655.0610 ELECTRICAL WIRE LIGHTING (FESTOON OUTLETS) 12 AWG LF	12 AWG (GROUND) LF
0030	LP-31	49+47	45.14'LT	1	40	20
	LP-32	50+58	33.72'RT	1	40	20
	LP-33	51+84	45.18'LT	1	40	20
	LP-34	52+80	31.72'RT	1	40	20
	LP-35	54+32	46.33'LT	1	40	20
	LP-36	55+54	33.18'RT	1	40	20
	LP-37	56+50	44.92'LT	1	40	20
	LP-38	57+77	34.64'RT	1	40	20
	LP-39	59+12	34.59'LT	1	40	20
	LP-40	60+39	32.95'RT	1	40	20
	LP-41	61+57	33.03'LT	1	40	20
	LP-42	62+71	33.08'RT	1	40	20
	LP-43	63+53	33.41'LT	1	40	20
	LP-44	64+92	32.34'RT	1	40	20
	LP-45	66+16	33.92'LT	1	40	20
	LP-46	67+17	32.47'RT	1	40	20
	LP-47	68+23	45.56'RT	1	40	20
	LP-48	69+08	48.23'RT	1	40	20
	LP-49	69+89	48.57'RT	1	40	20
	LP-50	71+15	34.49'LT	1	40	20
	LP-51	72+72	46.94'RT	1	40	20
	LP-52	73+57	32.98'LT	1	40	20
	LP-53	74+78	46.39'RT	1	40	20
	LP-54	75+88	31.63'LT	1	40	20
	LP-55	77+09	39.90'RT	1	40	20
	LP-56	77+60	53.28'LT	1	40	20
	LP-57	78+85	55.08'LT	1	40	20
	LP-58	79+70	35.78'LT	1	40	20
	LP-59	80+75	33.23'LT	1	40	20
	LP-60	81+69	33.24'RT	1	40	20
	LP-61	83+23	32.87'LT	1	40	20
	LP-62	84+27	32.38'LT	1	40	20
	LP-63	85+62	31.86'LT	1	40	20
	LP-64	86.83	33.16'LT	1	40	20
	LP-65	87+81	34.00'LT	1	40	20
	LP-66	88+85	34.00'LT	1	40	20
	LP-67	90+33	33.48'LT	1	40	20
	LP-68	91+80	33.97'LT	1	40	20
	LP-69	92.84	33.44'LT	1	40	20
	LP-70	94+02	33.64'RT	1	40	20
	LP-71	95+14	35.33'LT	1	40	20
	LP-72	78+65	41.00'RT	1	40	20
		SUBTOTALS		72	2,880	1,440
		TOTALS		72		4,320

INSTALL CONDUIT INTO EXISTING ITEM

CATEGORY	LOCATION	652.0700.S EA
0020	HENRIETTA STREET	1

RETROFIT EXISTING HPS LUMINAIRES

CATEGORY	LOCATION	EACH
0030	LAKE VIEW DRIVE TO ETHEL STREET	6
	ETHEL STREET TO KENT STREET	5
	TOTAL	11

STREET LIGHTING SUMMARY (POLE LUMINAIRE)

CATEGORY	BASE NO.	STATION	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	654.0107 CONCRETE BASES TYPE 7 EACH	SPV.0060.05 CONCRETE BASES TYPE 7 BUMPER TYPE EACH	655.0610 ELECTRICAL WIRE LIGHTING (POLE LUMINAIRE) 12 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING (POLE LUMINAIRE) 12 AWG (GROUND) LF	657.0210 TRANSFORMER BASES BREAKAWAY 15-17 INCH BOLT CIRCLE EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0715 LUMINAIRE ARMS TRUSS-TYPE 4 1/2-INCH CLAMP 15-FT EACH	SPV.0060.07 POLES 25-FOOT ALUMINUM EACH	657.0337 POLES TYPE 17 ALUMINUM EACH
0020	LP-1	15+71	45.11'LT	---	---	1	116	58	1	---	1	---	1
	LP-2	16+97	33.05'RT	---	1	---	116	58	1	---	1	---	1
	LP-3	18+34	41.25'LT	---	---	1	116	58	1	---	1	---	1
	LP-4	19+27	33.47'RT	1	---	---	86	43	---	1	1	1	---
	LP-5	20+16	33.59'RT	---	---	1	116	58	1	---	1	---	1
	LP-6	21+34	33.73'RT	1	---	---	86	43	---	1	1	1	---
	LP-7	22+49	33.89'LT	---	---	1	116	58	1	---	1	---	1
	LP-8	23+62	32.97'RT	1	---	---	86	43	---	1	1	1	---
	LP-9	24+66	34.26'LT	---	---	1	116	58	1	---	1	---	1
	LP-10	26+11	31.57'RT	1	---	---	86	43	---	1	1	1	---
	LP-11	27+43	32.76'LT	---	1	---	116	58	1	---	1	---	1
	LP-12	28+69	33.17'RT	1	---	---	86	43	---	1	1	1	---
	LP-13	29+97	33.71'LT	---	1	---	116	58	1	---	1	---	1
	LP-14	31+09	32.87'RT	1	---	---	86	43	---	1	1	1	---
	LP-15	32+21	32.57'LT	---	1	---	116	58	1	---	1	---	1
	LP-16	33+50	32.81'RT	1	---	---	86	43	---	1	1	1	---
	LP-17	34+78	33.15'LT	---	1	---	116	58	1	---	1	---	1
	LP-18	35+96	32.88'RT	1	---	---	86	43	---	1	1	1	---
	LP-19	36+95	33.38'LT	---	1	---	116	58	1	---	1	---	1
	LP-20	38+21	32.47'RT	1	---	---	86	43	---	1	1	1	---
	LP-21	39+48	32.96'LT	---	1	---	116	58	1	---	1	---	1
	LP-22	40+66	32.47'RT	1	---	---	86	43	---	1	1	1	---
	LP-23	41+79	35.30'RT	1	---	---	86	43	---	1	1	1	---
	LP-24	42+87	33.46'LT	---	1	---	116	58	1	---	1	---	1
	LP-25	43+76	33.04'RT	1	---	---	86	43	---	1	1	1	---
	LP-26	44+67	33.18'LT	---	1	---	116	58	1	---	1	---	1
	LP-27	45+63	32.41'RT	---	1	---	116	58	1	---	1	---	1
	LP-28	46+71	34.82'LT	---	1	---	116	58	1	---	1	---	1
	LP-29	48+13	33.59'RT	---	1	---	116	58	1	---	1	---	1
	LP-30	47+88	65.07'LT	---	1	---	116	58	1	---	1	---	1
	LP-31	49+47	45.14'LT	---	1	---	116	58	1	---	1	---	1
	LP-32	50+58	33.72'RT	---	1	---	116	58	1	---	1	---	1
	LP-33	51+84	45.18'LT	---	1	---	116	58	1	---	1	---	1
	LP-34	52+80	31.72'RT	---	1	---	116	58	1	---	1	---	1
	LP-35	54+32	46.33'LT	---	1	---	116	58	1	---	1	---	1
	LP-36	55+54	33.18'RT	---	1	---	116	58	1	---	1	---	1
	LP-37	56+50	44.92'LT	---	1	---	116	58	1	---	1	---	1
	LP-38	57+77	34.64'RT	---	1	---	116	58	1	---	1	---	1
	LP-39	59+12	34.59'LT	---	1	---	116	58	1	---	1	---	1
	LP-40	60+39	32.95'RT	---	1	---	116	58	1	---	1	---	1
	LP-41	61+57	33.03'LT	---	1	---	116	58	1	---	1	---	1
	LP-42	62+71	33.08'RT	---	1	---	116	58	1	---	1	---	1
	LP-43	63+53	33.41'LT	---	1	---	116	58	1	---	1	---	1
	LP-44	64+92	32.34'RT	---	1	---	116	58	1	---	1	---	1
	LP-45	66+16	33.92'LT	---	1	---	116	58	1	---	1	---	1
	LP-46	67+17	32.47'RT	---	1	---	116	58	1	---	1	---	1
	LP-47	68+23	45.56'RT	---	1	---	116	58	1	---	1	---	1
	LP-48	69+08	48.23'RT	---	1	---	116	58	1	---	1	---	1
	LP-49	69+89	48.57'RT	---	1	---	116	58	1	---	1	---	1
	LP-50	71+15	34.49'LT	---	1	---	116	58	1	---	1	---	1
	LP-51	72+72	46.94'RT	---	1	---	116	58	1	---	1	---	1
	LP-52	73+57	32.98'LT	---	1	---	116	58	1	---	1	---	1
	LP-53	74+78	46.39'RT	---	---	1	116	58	1	---	1	---	1
	LP-54	75+88	31.63'LT	---	1	---	116	58	1	---	1	---	1
	LP-55	77+09	39.90'RT	---	1	---	116	58	1	---	1	---	1

CONT. NEXT SHEET

STREET LIGHTING SUMMARY (POLE LUMINAIRE)(CONT.)

CATEGORY	BASE NO.	STATION	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	654.0107 CONCRETE BASES TYPE 7 EACH	SPV.0060.05 CONCRETE BASES TYPE 7 BUMPER TYPE EACH	655.0610 ELECTRICAL WIRE LIGHTING (POLE LUMINAIRE) 12 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING (POLE LUMINAIRE) 12 AWG (GROUND) LF	657.0210 TRANSFORMER BASES BREAKAWAY 15-17 INCH BOLT CIRCLE EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0715 LUMINAIRE ARMS TRUSS-TYPE 4 1/2-INCH CLAMP 15-FT EACH	SPV.0060.07 POLES 25-FOOT ALUMINUM EACH	657.0337 POLES TYPE 17 ALUMINUM EACH
0020	LP-56	77+60	53.28'LT	---	1	---	116	58	1	---	1	---	1
	LP-57	78+85	55.08'LT	---	1	---	116	58	1	---	1	---	1
	LP-58	79+70	35.78'LT	---	1	---	116	58	1	---	1	---	1
	LP-59	80+75	33.23'LT	---	1	---	116	58	1	---	1	---	1
	LP-60	81+69	33.24'RT	---	1	---	116	58	1	---	1	---	1
	LP-61	83+23	32.87'LT	---	1	---	116	58	1	---	1	---	1
	LP-62	84+27	32.38'LT	---	---	1	116	58	1	---	1	---	1
	LP-63	85+62	31.86'LT	---	1	---	116	58	1	---	1	---	1
	LP-64	86.83	33.16'LT	---	1	---	116	58	1	---	1	---	1
	LP-65	87+81	34.00'LT	---	1	---	116	58	1	---	1	---	1
	LP-66	88+85	34.00'LT	---	---	1	116	58	1	---	1	---	1
	LP-67	90+33	33.48'LT	---	---	1	116	58	1	---	1	---	1
	LP-68	91+80	33.97'LT	---	1	---	116	58	1	---	1	---	1
	LP-69	92.84	33.44'LT	---	1	---	116	58	1	---	1	---	1
	LP-70	94+02	33.64'RT	---	1	---	116	58	1	---	1	---	1
	LP-71	95+14	35.33'LT	---	1	---	116	58	1	---	1	---	1
	LP-72	78+65	41.00'RT	---	1	---	116	58	1	---	1	---	1
			SUBTOTALS	12	51	9	7,992	3,996	60	12	72	12	60
			TOTALS	12	51	9	11,988		60	12	72	12	60

PULL BOXES STEEL 24x42-INCH

CATEGORY	PULL BOX NO.	STATION	LOCATION	653.0140 EACH
0020	PB-1	17+40	37.86'LT	1
	PB-2	17+17	30.06'RT	1
	PB-3	18+38	35.60'LT	1
	PB-4	17+98	26.95'RT	1
	PB-5	19+23	26.94'RT	1
	PB-6	20+05	28.02'RT	1
	PB-7	20+59	27.42'LT	1
	PB-8	21+58	27.72'LT	1
	PB-9	27+53	26.64'LT	1
	PB-10	28+39	27.06'LT	1
	PB-11	31+32	27.17'LT	1
	PB-12	32+30	27.65'LT	1
	PB-13	35+71	28.80'LT	1
	PB-14	36+49	28.19'LT	1
	PB-15	40+00	26.95'LT	1
	PB-16	40+91	27.04'LT	1
	PB-17	42+13	27.69'LT	1
	PB-18	42+96	27.87'LT	1
	PB-19	44+16	27.31'RT	1
	PB-20	44+80	27.61'RT	1
	PB-21	46+97	26.77'RT	1
	PB-22	46+97	27.19'LT	1
	PB-23	47+61	45.20'LT	1
	PB-24	47+61	125.20'LT	1
	PB-25	48+30	39.95'LT	1
	PB-26	52+40	38.62'LT	1
	PB-27	52+40	25.38'RT	1
	PB-28	54+87	27.45'RT	1
	PB-29	58+43	26.93'RT	1
	PB-30	59+27	27.31'RT	1
	PB-31	63+83	26.97'RT	1

CONT. ABOVE

PULL BOXES STEEL 24x42-INCH (CONT.)

CATEGORY	PULL BOX NO.	STATION	LOCATION	653.0140 EACH
0020	PB-32	64+66	27.20'RT	1
	PB-33	67+08	27.30'RT	1
	PB-34	67+94	32.01'RT	1
	PB-35	77+51	35.06'RT	1
	PB-36	77+34	27+72'LT	1
	PB-37	78+62	34.89'RT	1
	PB-38	78+93	26.87'LT	1
	PB-39	81+43	25.98'LT	1
	PB-40	81+43	26.68'RT	1
	PB-41	84+18	27.29'LT	1
	PB-42	92+73	26.57'LT	1
	PB-43	92+73	27.13'RT	1
			TOTAL	43

CONDUIT SPECIAL SUMMARY

CATEGORY	LOCATION FROM	LOCATION TO	652.0615 3-INCH LF	652.0605 2-INCH LF
0020	LC-1	PB-24	20	---
	PB-24	PB-23	150	---
	PB-23	PB-22	130	---
	PB-22	LP-28	---	25
	LP-28	LP-26	---	215
	LP-26	PB-18	---	165
	PB-18	LP-24	---	10
	PB-18	PB-17	160	---
	PB-17	PB-16	---	115
	PB-16	PB-15	180	---
	PB-15	LP-21	---	50
	LP-21	LP-19	---	245
	LP-19	PB-14	---	45
	PB-14	PB-13	150	---
	PB-13	LP-17	---	90
	LP-17	PB-12	---	240
	PB-12	LP-15	---	10
	PB-12	PB-11	190	---
	PB-11	LP-13	---	130
	LP-13	PB-10		155
	PB-10	PB-9	150	---
	PB-9	LP-11	---	20
	LP-11	LP-9	---	267
	LP-9	LP-7	---	210
	LP-7	PB-8	---	87
	PB-8	PB-7	190	---
	PB-7	LP-5	---	44
	LP-5	PB-3	---	170
	PB-3	PB-1	190	---
	PB-3	LP-3	---	10
	PB-1	LP-1	---	165
	PB-22	PB-21	110	---
	PB-21	LP-27	---	135
	LP-27	PB-20	---	85
	PB-20	PB-19	120	---
	PB-19	LP-25	---	45
	LP-25	LP-23	---	195
	LP-23	LP-22	---	110
	LP-22	LP-20	---	240
	LP-20	LP-18	---	215
	LP-18	LP-16	---	240
	LP-16	LP-14	---	235
	LP-14	LP-12	---	240
	LP-12	LP-10	---	250
	LP-10	LP-8	---	245
	LP-8	LP-6	---	220
	LP-6	PB-6	---	135
	PB-6	PB-5	160	---
	PB-5	LP-4	---	5
	PB-5	PB-4	---	120
	PB-4	PB-2	150	---
	PB-2	LP-2	---	25
	PB-24	LP-30	---	70
	LP-30	PB-25	---	50
	PB-25	LP-31	---	115

CONT. ABOVE

CONDUIT SPECIAL SUMMARY (CONT.)

CATEGORY	LOCATION FROM	LOCATION TO	652.0615 3-INCH LF	652.0605 2-INCH LF
0020	LP-31	LP-33	---	230
	LP-33	PB-26	---	80
	PB-26	LP-35	---	160
	LP-35	LP-37	---	210
	LP-37	LP-39	---	255
	LP-39	LP-41	---	235
	LP-41	LP-43	---	190
	LP-43	LP-45	---	255
	LP-45	LP-50	---	480
	PB-26	PB-27	130	---
	PB-27	LP-32	---	205
	LP-32	LP-29	---	240
	PB-27	LP-34	---	15
	PB-27	PB-28	430	---
	PB-28	LP-36	---	65
	LP-36	LP-38	---	215
	LP-38	PB-29	---	65
	PB-29	PB-30	160	---
	PB-30	LP-40	---	105
	LP-40	LP-42	---	225
	LP-42	PB-31	---	110
	PB-31	PB-32	160	---
	PB-32	LP-44	---	25
	LP-44	PB-33	---	210
	PB-33	LP-46	---	10
	PB-33	PB-34	160	---
	PB-34	LP-47	---	35
	LP-47	LP-48	---	85
	LP-48	LP-49	---	85
	LC-2	PB-41	260	---
	PB-41	LP-61	---	95
	LP-61	PB-39	---	175
	PB-39	LP-59	---	65
	LP-59	LP-58	---	105
	LP-58	PB-38	---	75
	PB-38	LP-57	---	10
	PB-38	PB-36	300	---
	PB-36	LP-56	---	40
	PB-36	LP-54	---	140
	LP-54	LP-52	---	225
	PB-39	PB-40	110	---
	PB-40	LP-60	---	25
	PB-40	PB-37	---	270
	PB-37	LP-72	---	10
	PB-37	PB-35	210	---
	PB-35	LP-55	---	40
	LP-55	LP-53	---	225
	LP-53	LP-51	---	200
	PB-41	LP-62	---	15
	LP-62	LP-63	---	130
	LP-63	LP-64	---	120
	LP-64	LP-65	---	98
	LP-65	LP-66	---	102
	LP-66	LP-67	---	140
	LP-67	LP-68	---	145
	LP-68	PB-42	---	100
	PB-42	LP-69	---	10
	LP-69	LP-71	---	225
	PB-42	PB-43	110	---
	PB-43	LP-70	---	120
	TOTALS		4,080	12,138

ELECTRICAL WIRE LIGHTING

CATEGORY	LOCATION FROM	LOCATION TO	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	10 AWG (GROUND) LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	8 AWG (GROUND) LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	6 AWG (GROUND) LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF	4 AWG (GROUND) LF
0020	LC-1	LP-28	---	---	---	---	---	---	404	202
	LP-28	LP-24	---	---	---	---	---	---	782	391
	LP-24	LP-19	---	---	---	---	---	---	1,176	588
	LP-19	LP-15	---	---	---	---	---	---	976	488
	LP-15	LP-11	---	---	---	---	---	---	986	493
	LP-11	LP-7	---	---	---	---	---	---	1,000	500
	LP-7	LP-3	---	---	---	---	---	---	846	423
	LC-1	LP-26	---	---	---	---	---	---	804	402
	LP-26	LP-21	---	---	---	---	---	---	1,058	529
	LP-21	LP-17	---	---	---	---	---	---	954	477
	LP-17	LP-13	---	---	---	---	---	---	974	487
	LP-13	LP-9	---	---	---	---	---	---	1,054	527
	LP-9	LP-5	---	---	---	---	---	---	914	457
	LP-5	LP-1	---	---	---	---	---	---	682	341
	LC-1	LP-30	---	---	166	83	---	---	---	---
	LP-30	LP-33	---	---	808	404	---	---	---	---
	LP-33	LP-37	---	---	928	464	---	---	---	---
	LP-37	LP-41	---	---	1008	504	---	---	---	---
	LP-41	LP-45	---	---	914	457	---	---	---	---
	LC-1	LP-31	---	---	---	---	500	250	---	---
	LP-31	LP-35	---	---	---	---	966	483	---	---
	LP-35	LP-39	---	---	---	---	960	480	---	---
	LP-39	LP-43	---	---	---	---	874	437	---	---
	LP-43	LP-50	---	---	---	---	1512	756	---	---
	LC-1	LP-34	---	---	---	---	---	---	1366	683
	LP-34	LP-29	---	---	---	---	---	---	902	451
	LP-34	LP-38	---	---	---	---	---	---	982	491
	LP-38	LP-42	---	---	---	---	---	---	994	497
	LP-42	LP-46	---	---	---	---	---	---	894	447
	LP-46	LP-48	---	---	---	---	---	---	424	212
	LC-1	LP-32	---	---	---	---	---	---	1,598	799
	LP-32	LP-36	---	---	---	---	---	---	1,020	510
	LP-36	LP-40	---	---	---	---	---	---	974	487
	LP-40	LP-44	---	---	---	---	---	---	914	457
	LP-44	LP-47	---	---	---	---	---	---	684	342
	LP-47	LP-49	---	---	---	---	---	---	340	170
	LC-1	LP-27	---	---	---	---	---	---	748	374
	LP-27	LP-23	---	---	---	---	---	---	774	387
	LP-23	LP-20	---	---	---	---	---	---	710	355
	LP-20	LP-16	---	---	---	---	---	---	930	465
	LP-16	LP-12	---	---	---	---	---	---	940	470
	LP-12	LP-8	---	---	---	---	---	---	1000	500
	LP-8	LP-4	---	---	---	---	---	---	882	441
	LC-1	LP-25	---	---	---	---	---	---	1108	554
	LP-25	LP-22	---	---	---	---	---	---	610	305
	LP-22	LP-18	---	---	---	---	---	---	930	465
	LP-18	LP-14	---	---	---	---	---	---	960	480
	LP-14	LP-10	---	---	---	---	---	---	980	490
	LP-10	LP-6	---	---	---	---	---	---	940	470
	LP-6	LP-2	---	---	---	---	---	---	908	454
	LC-2	LP-61	---	---	494	247	---	---	---	---
	LP-61	LP-59	---	---	500	250	---	---	---	---
	LP-59	LP-58	---	---	240	120	---	---	---	---
	LP-58	LP-57	---	---	212	106	---	---	---	---

CONT. NEXT SHEET

ELECTRICAL WIRE LIGHTING (CONT.)

CATEGORY	LOCATION FROM	LOCATION TO	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUND) LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG (GROUND) LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG (GROUND) LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG (GROUND) LF
0020	LP-57	LP-56	---	---	414	207	---	---	---	---
	LP-56	LP-54	---	---	392	196	---	---	---	---
	LP-54	LP-52	---	---	470	235	---	---	---	---
	LC-2	LP-60	---	---	1,028	514	---	---	---	---
	LP-60	LP-72	---	---	600	300	---	---	---	---
	LP-72	LP-55	---	---	330	165	---	---	---	---
	LP-55	LP-53	---	---	470	235	---	---	---	---
	LP-53	LP-51	---	---	420	210	---	---	---	---
	LC-2	LP-62	334	167	---	---	---	---	---	---
	LP-62	LP-64	510	255	---	---	---	---	---	---
	LP-64	LP-66	416	208	---	---	---	---	---	---
	LP-66	LP-68	584	292	---	---	---	---	---	---
	LP-68	LP-70	584	292	---	---	---	---	---	---
	LC-2	LP-63	604	302	---	---	---	---	---	---
	LP-63	LP-65	450	225	---	---	---	---	---	---
	LP-65	LP-67	500	250	---	---	---	---	---	---
	LP-67	LP-69	500	250	---	---	---	---	---	---
	LP-69	LP-71	460	230	---	---	---	---	---	---
SUBTOTALS			4,942	2,471	9,394	4,697	4,812	2,406	36,122	18,061
TOTALS			7,413		14,091		7,218		54,183	

LIGHTING CONTROL SUMMARY

CATEGORY	CABINET NO.	STATION	LOCATION	SPV.0060.02 LIGHTING CONTROL CABINET, STURGEON EDDY EACH	SPV.0060.09 LIGHTING CONTROL CABINET, HENRIETTA EACH	654.0210 CONCRETE CONTROL CABINET BASES TYPE 8 EACH	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS	COMMENTS
0020	LC-1	47+60	131.00'LT	1	---	1	---	
	MB-1	47+60	134.00'LT	---	---	---	1	STURGEON EDDY
	LC-2	83+56	48.00'RT	---	1	1	---	
	MB-2	83+56	52.00'RT	---	---	---	1	HENRIETTA
			TOTALS	1	1	2	2	

KENT ST

ROSS AVE

N

CITY OF WAUSAU (WATER)

BEGIN PROJECT
STA. 14+26

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(4-INCH STEEL)

CITY OF WAUSAU
(ELECTRIC)

CONCRETE PAVEMENT PARTIAL DEPTH
REPAIR SURFACE REPAIR

CITY OF WAUSAU
(SANITARY SEWER)

LIMITS OF REMOVING CONCRETE
SURFACE PARTIAL DEPTH (TYP.)

14+00 +50 15+00 +50 16+00 +50 17+00 +50 18+00 +50 19+

MATCHLINE STA. 19+00

BUS 51 (GRAND AVE)

BUS 51 (GRAND AVE)

CITY OF WAUSAU
(ELECTRIC)

APPROXIMATE EXISTING
LONGITUDINAL JOINT (TYP.)

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(8-INCH STEEL)

CITY OF WAUSAU
(ELECTRIC)

CONCRETE SIDEWALK 4-INCH (TYP.)

CITY OF WAUSAU (WATER)

E KENT ST

E ROSS AVE

LEGEND

CONCRETE PAVEMENT REPAIR
(CONCRETE PAVEMENT 7-INCH OVER
BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)

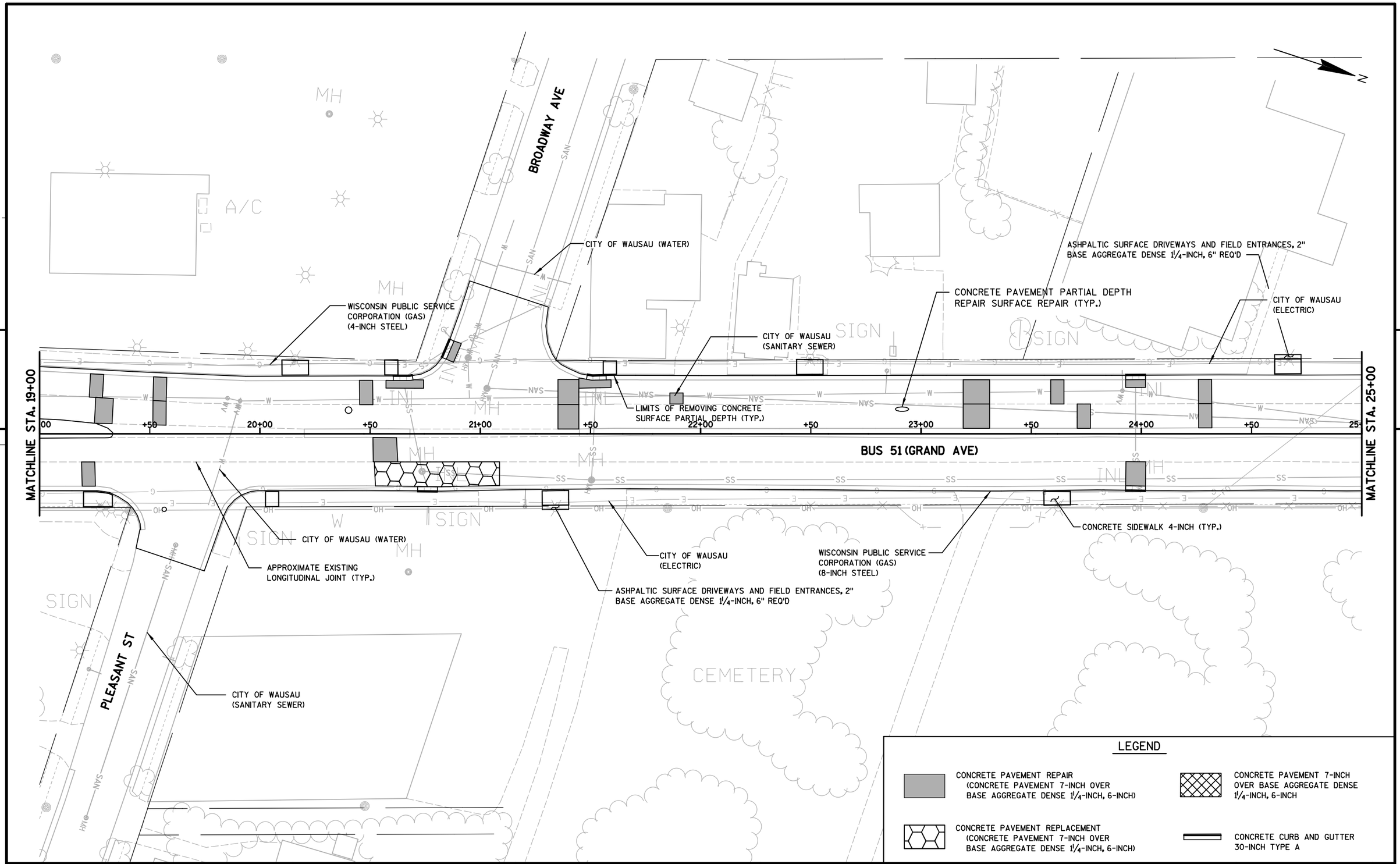
CONCRETE PAVEMENT 7-INCH
OVER BASE AGGREGATE DENSE
1¼-INCH, 6-INCH

CONCRETE PAVEMENT REPLACEMENT
(CONCRETE PAVEMENT 7-INCH OVER
BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)

CONCRETE CURB AND GUTTER
30-INCH TYPE A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050101_pn.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050102_pn.dgn PLOT DATE : 6/27/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO MARATHON COUNTY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	EXISTING	TOTAL	TOAL ACRES REMAINING	PLE SQ. FT.
1	WAUSAU CEMETERY ASSOCIATION	PLE	50.50	---	----	---	50.50	9

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN PUBLIC SERVICE CORP. - GAS	TEMPORARY CONSTRUCTION EASEMENT
101	WISCONSIN PUBLIC SERVICE CORP. - ELECTRIC	TEMPORARY CONSTRUCTION EASEMENT

506

PK NAIL
Y = 194,163.052
X = 281,296.952

T 28 N R 7 E 1 2

1" IP

50'

WESTON AVE

CITY OF WAUSAU

LOT 1
CSM 11160

NW-SE

SW-NE

S 89°37'13" E 3,127.50'
ALONG QUARTER LINE

PARCEL 2
CSM 2075
DOC. 749648

PARCEL 1

LOT 3
CSM 7868
DOC. 1024146

LOT 2
CSM 7868
DOC. 1024146

P.L.

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR (TYP.)

18" LIGHT POLE EASEMENT
DOC. 558454 V. 501, P. 122

CITY OF WAUSAU
(ELECTRIC)

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(4-INCH STEEL)

3/4"
REBAR

APPROXIMATE EXISTING
LONGITUDINAL JOINT (TYP.)

18" LIGHT POLE EASEMENT
DOC. 558451 V. 501, P. 119

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(4-INCH STEEL)

LIMITS OF REMOVING CONCRETE
SURFACE PARTIAL DEPTH (TYP.)

CHISILED
"X"

MATCHLINE STA. 25+00

MATCHLINE STA. 31+00

26+00 +50 27+00 +50 28+00 +50 29+00 +50 30+00 +50

66'

DETAIL 1

BUS 51 (GRAND AVE)

CONCRETE SIDEWALK 4-INCH (TYP.)

18" LIGHT POLE EASEMENT
DOC. 558453 V. 501, P. 121

CITY OF WAUSAU
(SANITARY SEWER)

RW24
27+70.14
32.81'

N 14°04'46" W 98.04'

101 WISCONSIN PUBLIC SERVICE
CORP. - ELECTRIC
8' EASEMENT
DOC.568660, VOL.511 P.234

CITY OF WAUSAU
(ELECTRIC)

N 14°04'46" W 236.70'
PLE4 TO PLE5

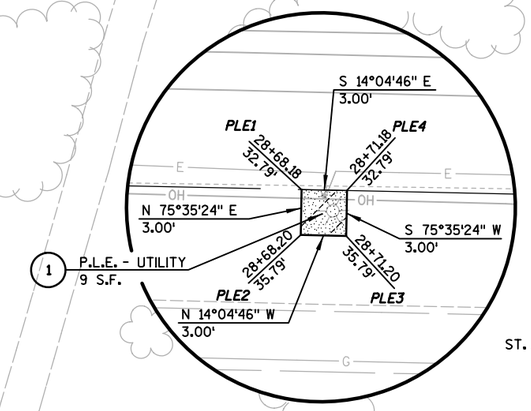
CITY OF WAUSAU (WATER)

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(8-INCH STEEL)

100 WISCONSIN PUBLIC SERVICE CORP. - GAS
(FORMERLY WISCONSIN FUEL AND
LIGHT COMPANY)
EASEMENT DOC.480618, VOL.417 P.57

1 WAUSAU CEMETERY ASSOCIATION

ST. JOSEPH'S CEMETERY



1 P.L.E. - UTILITY
9 S.F.

DETAIL 1

T 28 N R 7 E 1

MONUMENT NOT FOUND -
COMPUTED FROM TIES
Y = 194,128.943
X = 286,511.849

LEGEND

- CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH
- CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE CURB AND GUTTER 30-INCH TYPE A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET 150	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050103_pn.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

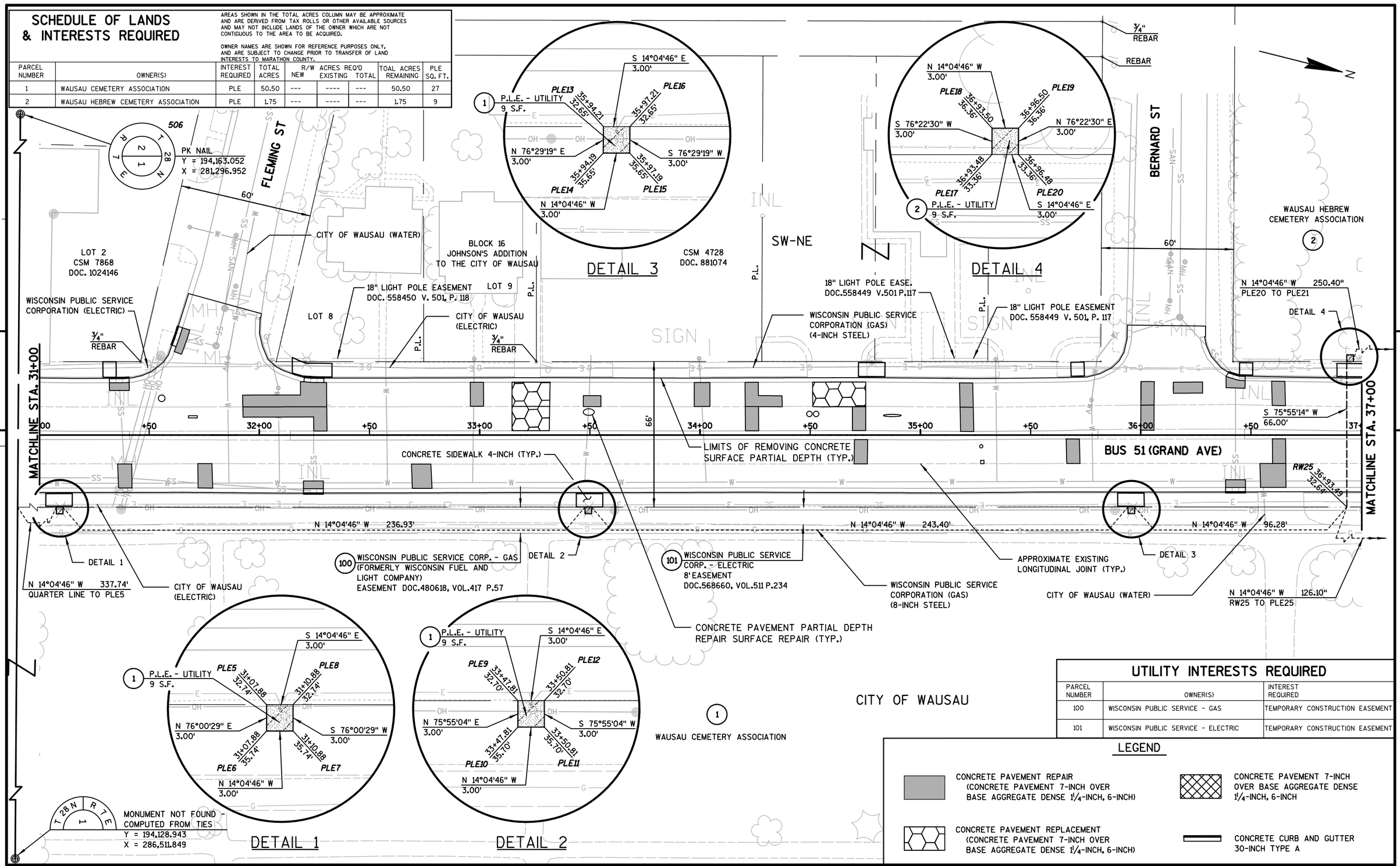
WISDOT/CADDS SHEET 44

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO MARATHON COUNTY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	R/W ACRES REQ'D EXISTING	R/W ACRES REQ'D TOTAL	TOAL ACRES REMAINING	PLE SQ. FT.
1	WAUSAU CEMETERY ASSOCIATION	PLE	50.50	---	----	---	50.50	27
2	WAUSAU HEBREW CEMETERY ASSOCIATION	PLE	1.75	---	----	---	1.75	9



UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN PUBLIC SERVICE - GAS	TEMPORARY CONSTRUCTION EASEMENT
101	WISCONSIN PUBLIC SERVICE - ELECTRIC	TEMPORARY CONSTRUCTION EASEMENT

LEGEND

- CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH
- CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE CURB AND GUTTER 30-INCH TYPE A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET 151 E

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO MARATHON COUNTY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	EXISTING	TOTAL	TOAL ACRES REMAINING	PLE SQ. FT.
1	WAUSAU CEMETERY ASSOCIATION	PLE	50.50	---	----	---	50.50	18
2	WAUSAU HEBREW CEMETERY ASSOCIATION	PLE	1.75	---	----	---	1.75	9

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN PUBLIC SERVICE CORP. - GAS	TEMPORARY CONSTRUCTION EASEMENT
101	WISCONSIN PUBLIC SERVICE CORP. - ELECTRIC	TEMPORARY CONSTRUCTION EASEMENT

MONUMENT NOT FOUND - COMPUTED FROM TIES
Y = 194,145.892
X = 283,920.505

T 28 N R 7 E 1

GOV'T LOT NO. 4

GOV'T LOT NO. 4

NE-NW

REBAR

REBAR

S 0°25'24" E ALONG QUARTER LINE 1,375.89'

MILLER AVE

50'

CITY OF WAUSAU

CEMETERY

WAUSAU HEBREW CEMETERY ASSOCIATION

2

P.L.

BLOCK 15 JOHNSON'S ADDITION TO THE CITY OF WAUSAU WISCONSIN

N 88°55'24" E 149.84'

RUDER ST

FIELER CAPS

P.L.

SARAH J. MILLERS ADDITION TO THE CITY OF WAUSAU

LOT 1

LOT 2

LOT 3

505

T 29N R 7E 36 1

BRASS MONUMENT
Y = 196,702.911
X = 283,901.610

APPROXIMATE EXISTING LONGITUDINAL JOINT (TYP.)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU (ELECTRIC)

N 14°04'46" W 250.40'
PLE20 TO PLE21

DETAIL 3

1" IP

60'

CITY OF WAUSAU (WATER)

CITY OF WAUSAU (WATER)

MAGNAIL

CITY OF WAUSAU (SANITARY SEWER)

FRONTIER COMMUNICATIONS (TELEPHONE)

18" LIGHT POLE EASEMENT
DOC. 558447 V. 501, P. 115

S 14°04'46" E
60.79'

LIMITS OF REMOVING CONCRETE SURFACE PARTIAL DEPTH (TYP.)

MATCHLINE STA. 37+00

MATCHLINE STA. 43+00

BUS 51 (GRAND AVE)

38+00 +50 39+00 +50 40+00 +50 41+00 +50 42+00 +50

N 14°04'46" W 126.10'
RW25 TO PLE25

N 14°04'46" W 291.10'

N 14°02'50" W 255.80'
RW32 TO PLE33

WISCONSIN PUBLIC SERVICE - GAS (FORMERLY WISCONSIN FUEL AND LIGHT COMPANY) EASEMENT DOC.480618, VOL.417 P.57

100

DETAIL 1

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR (TYP.)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (8-INCH STEEL)

DETAIL 2

CONCRETE SIDEWALK 4-INCH (TYP.)

CITY OF WAUSAU (ELECTRIC)

101

WISCONSIN PUBLIC SERVICE CORP. - ELECTRIC 8' EASEMENT DOC.568660, VOL.511 P.234

1

WAUSAU CEMETERY ASSOCIATION

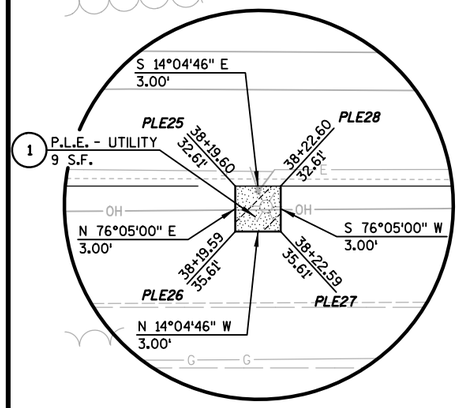
SW-NE

1

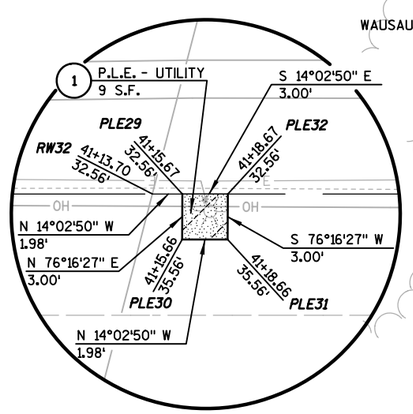
WAUSAU CEMETERY ASSOCIATION

NW-NE

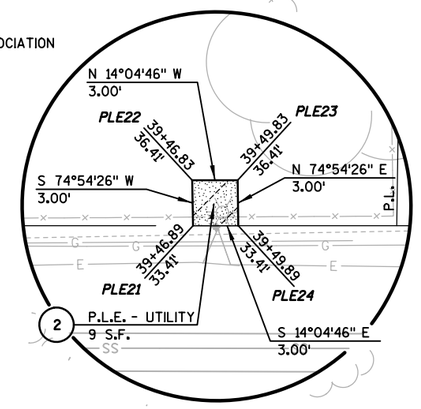
SIXTEENTH LINE



DETAIL 1



DETAIL 2



DETAIL 3

LEGEND

- CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH
- CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE CURB AND GUTTER 30-INCH TYPE A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050105_pn.dgn PLOT DATE : 6/27/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44

SCHEDULE OF LANDS & INTERESTS REQUIRED

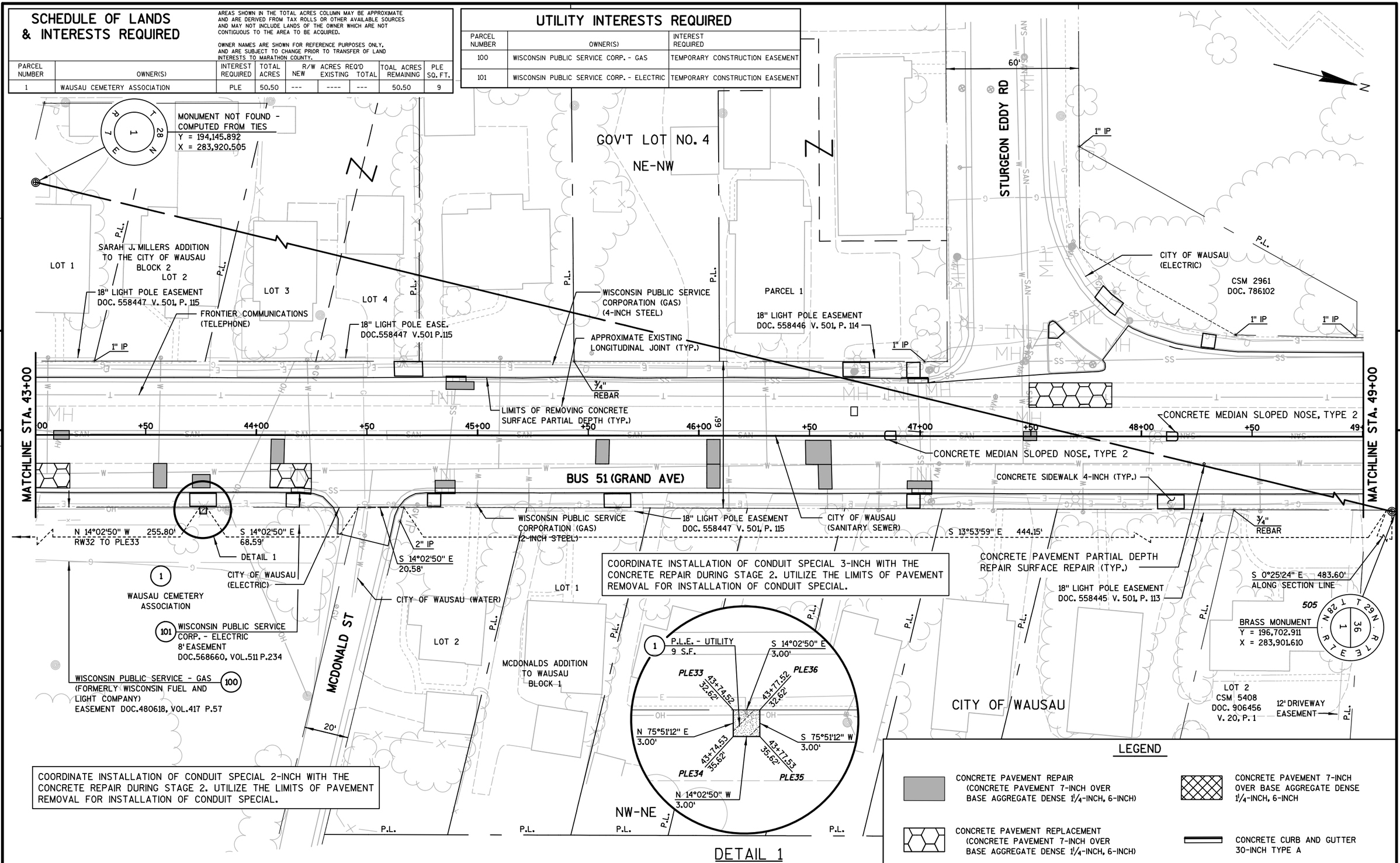
AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO MARATHON COUNTY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	EXISTING	TOTAL	TOAL ACRES REMAINING	PLE SQ. FT.
1	WAUSAU CEMETERY ASSOCIATION	PLE	50.50	---	----	---	50.50	9

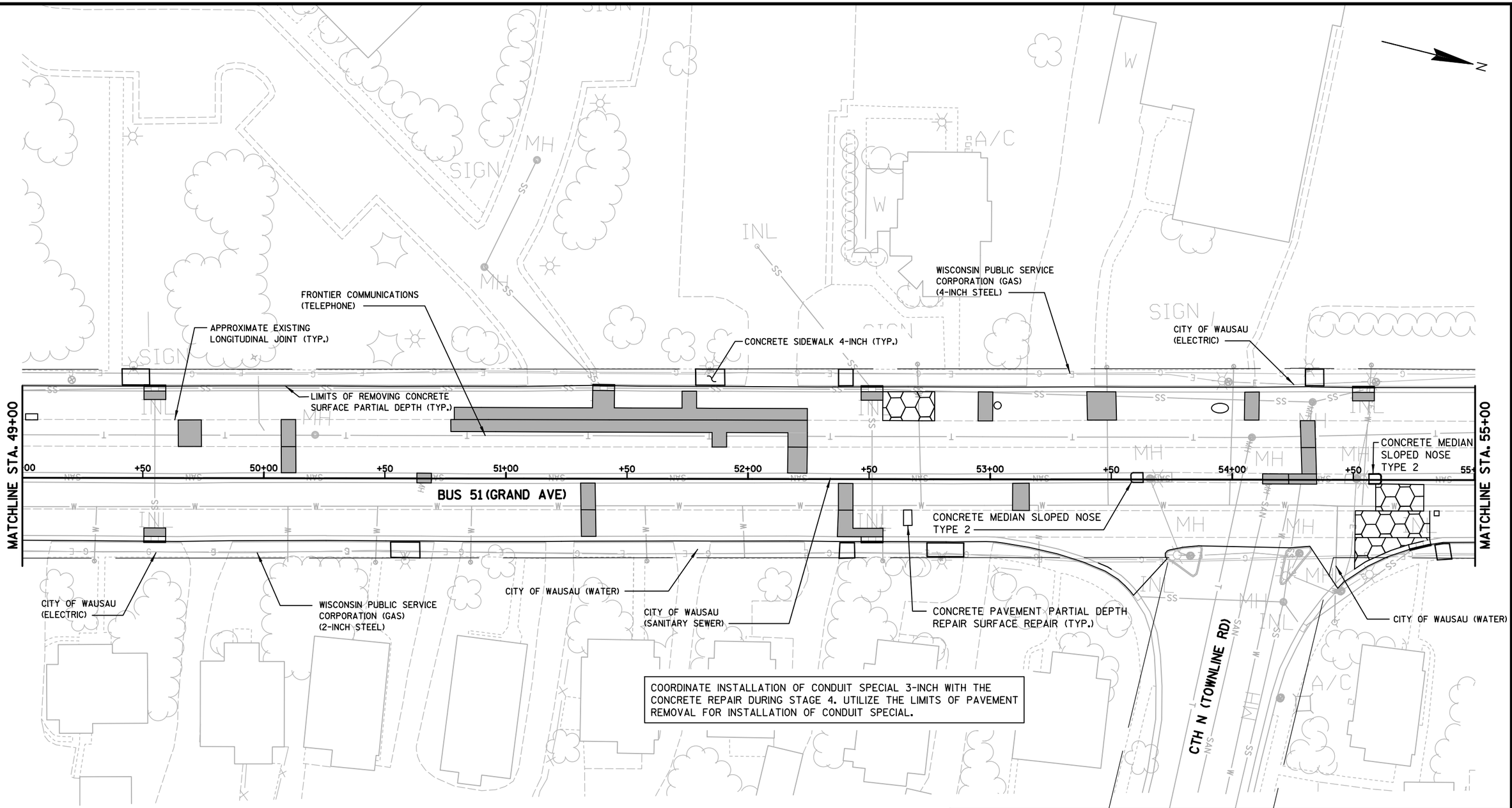
UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	WISCONSIN PUBLIC SERVICE CORP. - GAS	TEMPORARY CONSTRUCTION EASEMENT
101	WISCONSIN PUBLIC SERVICE CORP. - ELECTRIC	TEMPORARY CONSTRUCTION EASEMENT



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050106_pn.dgn PLOT DATE : 6/27/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET 154	E

GOV'T LOT NO. 3

NOT RECOVERED
Y = 196,638.830
X = 281,256.486

CSM 2830
DOC. 779292
VOL.10, P.303

14' EASEMENT AND
DRIVEWAY PER CSM

3 EASTRIDGE CONDOMINIUMS
HOMEOWNERS ASSOCIATION, INC.

CITY OF WAUSAU
(ELECTRIC)

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

FRONTIER COMMUNICATIONS
(TELEPHONE)

CITY OF WAUSAU
(SANITARY SEWER)

APPROXIMATE EXISTING
LONGITUDINAL JOINT (TYP.)

18" LIGHT POLE EASEMENT
DOC. 558435 V. 501, P. 103

WISCONSIN PUBLIC SERVICE
CORPORATION (ELECTRIC)

CSM 6089
DOC. 933503

CSM 2232
DOC. 755385

DETAIL 1

N 10°38'58" W 3.00'
PLE38
S 79°21'02" W 3.00'
RW27
56+48.46 48.05
56+46.90 45.14
56+51.45 47.88
PLE39
N 79°21'02" E 3.00'
N 10°38'58" W 1.38'
56+48.28 45.06
56+51.28 44.89
PLE40
PLE37
3 P.L.E. - UTILITY 9 S.F.
S 10°38'58" E 3.00'

54+24.05 44.43'
RW26
N 13°44'55" W 222.93'
1" IP
LIMITS OF REMOVING CONCRETE
SURFACE PARTIAL DEPTH (TYP.)

MATCHLINE STA. 55+00
MATCHLINE STA. 61+00

55+00 56+00 57+00 58+00 59+00 60+00 61+00
+50 78' 67'

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

BUS 51 (GRAND AVE)

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(2-INCH STEEL)

CITY OF WAUSAU
(ELECTRIC)

CONCRETE PAVEMENT PARTIAL DEPTH
REPAIR SURFACE REPAIR (TYP.)

18" LIGHT POLE EASEMENT
DOC. 558440 V. 501, P. 108

18" LIGHT POLE EASEMENT
DOC. 558438 V. 501, P. 106

CITY OF WAUSAU (WATER)

CONCRETE SIDEWALK 4-INCH (TYP.)

18" LIGHT POLE EASEMENT
DOC. 558436 V. 501, P. 104

FRONTIER COMMUNICATIONS
(TELEPHONE)

S 88°36'44" W 197.28'
ALONG QUARTER LINE

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8

BLOCK 2
ELIZABETH SINGLES ADDITION
TO THE CITY OF WAUSAU

MANSON ST
60'

505
BRASS MONUMENT
Y = 196,702.911
X = 283,901.610

CITY OF WAUSAU

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO MARATHON COUNTY.

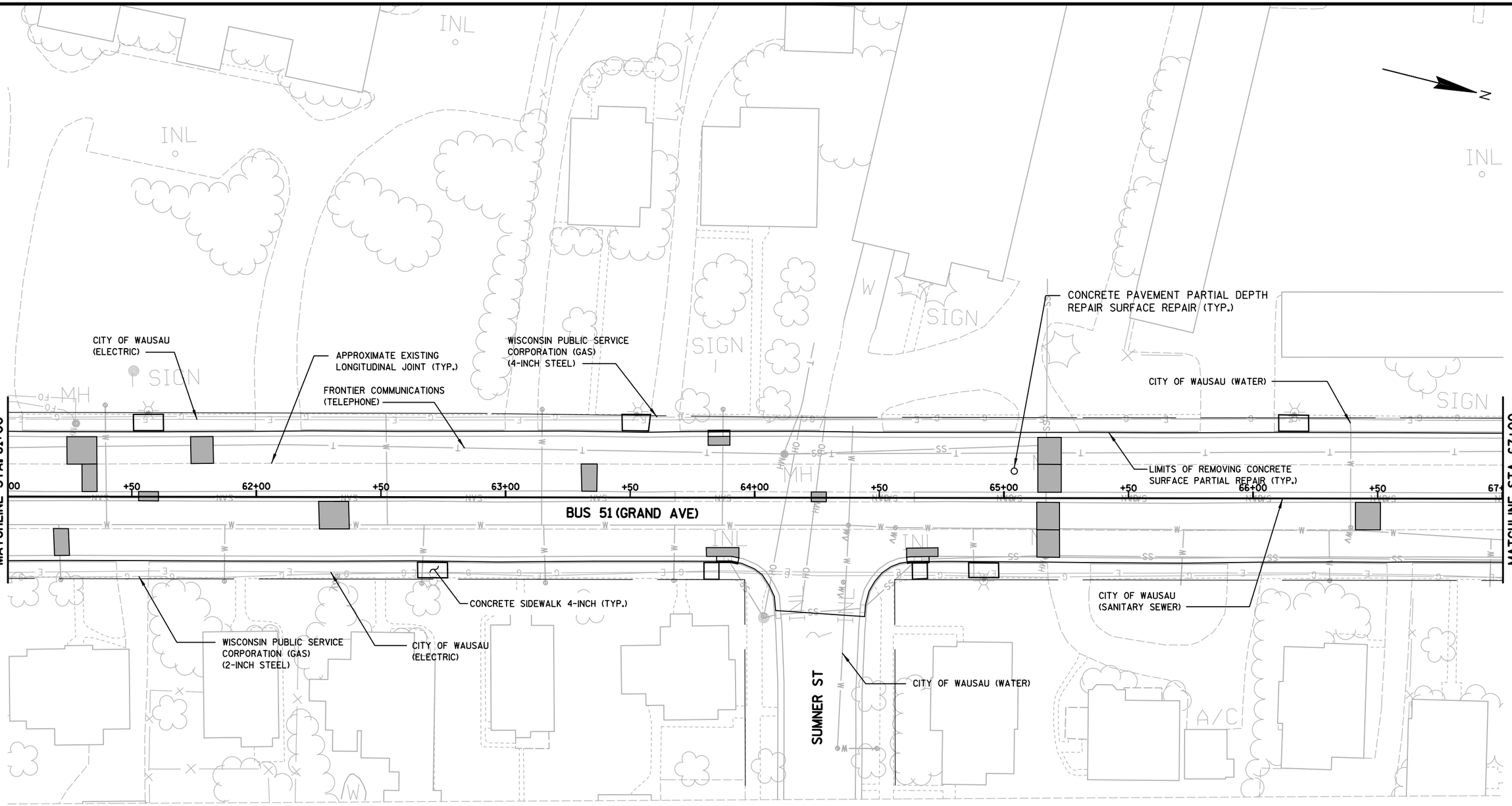
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	EXISTING	TOTAL	TOAL ACRES REMAINING	PLE SQ. FT.
3	EASTRIDGE CONDOMINIUMS HOMEOWNERS ASSOCIATION, INC.	PLE	1.27	---	----	---	1.27	9

LEGEND

- CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH
- CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE CURB AND GUTTER 30-INCH TYPE A

PROJECT NO: 6999-02-78 | HWY: BUS 51 | COUNTY: MARATHON | PLAN SHEET | SHEET 155 E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050108_pn.dgn | PLOT DATE : 6/27/2013 | PLOT BY : _username_ | PLOT NAME : | PLOT SCALE : $$.....plotscale.....$$



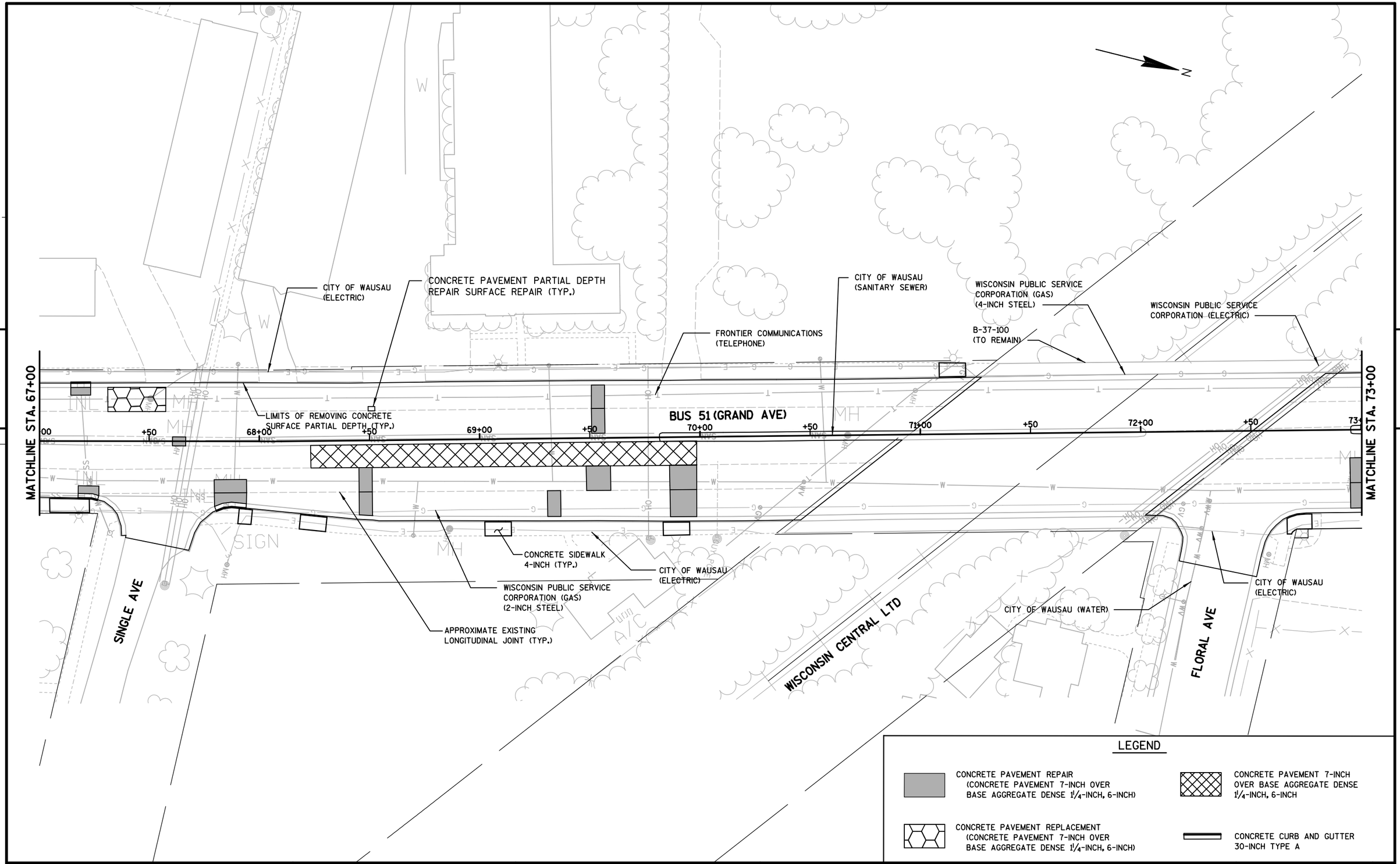
5

5

LEGEND

- CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH
- CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE CURB AND GUTTER 30-INCH TYPE A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET 156	E



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050110_pn.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISCONSIN CENTRAL LTD

E THOMAS ST

CITY OF WAUSAU (WATER)

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR (TYP.)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

CITY OF WAUSAU (ELECTRIC)

FRONTIER COMMUNICATIONS (TELEPHONE)

LIMITS OF REMOVING CONCRETE SURFACE PARTIAL DEPTH (TYP.)

MATCHLINE STA. 73+00

74+00

75+00

76+00

77+00

78+00

MATCHLINE STA. 79+00

BUS 51 (GRAND AVE)

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (2-INCH STEEL)

CITY OF WAUSAU (SANITARY SEWER)

CITY OF WAUSAU (ELECTRIC)

APPROXIMATE EXISTING LONGITUDINAL JOINT (TYP.)

CONCRETE SIDEWALK 4-INCH (TYP.)

LEUBNER ST

CITY OF WAUSAU (SANITARY SEWER)

E THOMAS ST

LEGEND

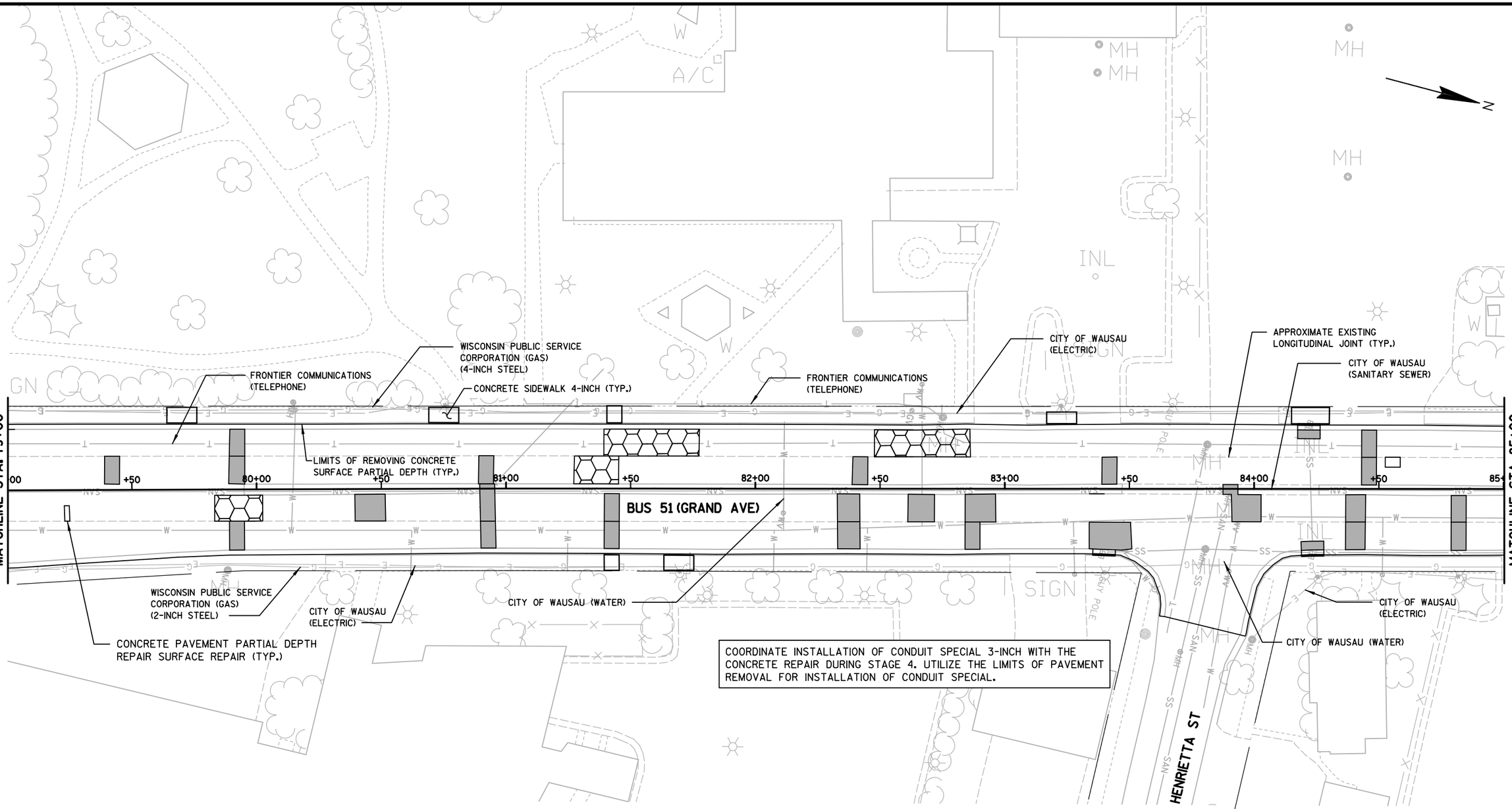
CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)

CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH

CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)

CONCRETE CURB AND GUTTER 30-INCH TYPE A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET 158 E



PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050112_pn.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

SCHEDULE OF LANDS & INTERESTS REQUIRED

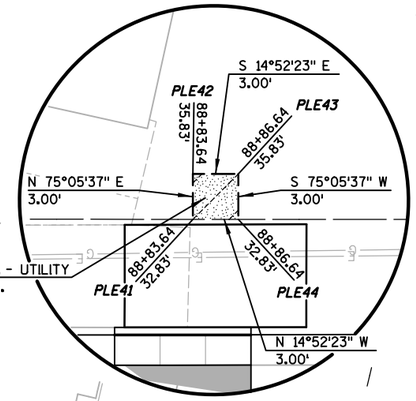
AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO MARATHON COUNTY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	EXISTING	TOTAL	TOAL ACRES REMAINING	PLE SQ. FT.
4	FONG FAMILY LLC	PLE	0.43	---	----	---	0.43	9

LEGEND

- CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH
- CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE CURB AND GUTTER 30-INCH TYPE A



DETAIL 1

4 P.L.E. - UTILITY 9 S.F.

4 FONG FAMILY LLC

OUTLOT 1
WALTON'S ADDITION TO WAUSAU

20' JOINT ACCESS EASEMENT PER CSM

PARCEL 2
DOC. 777131

CITY OF WAUSAU
SE-NW

LOT 3
CSM 5576

LOT 4
CSM 5576

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR (TYP.)

CONCRETE SIDEWALK 4-INCH (TYP.)

FRONTIER COMMUNICATIONS (TELEPHONE)

¾" REBAR

¾" REBAR

LIMITS OF REMOVING CONCRETE SURFACE PARTIAL DEPTH (TYP.)

CITY OF WAUSAU (ELECTRIC)

18" LIGHT POLE EASEMENT
DOC. 558422 V. 501, P. 20

CITY OF WAUSAU (SANITARY SEWER)

DETAIL 1

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (4-INCH STEEL)

APPROXIMATE EXISTING LONGITUDINAL JOINT (TYP.)

MATCHLINE STA. 85+00

86+00 +50 87+00 +50 88+00 +50 89+00 +50 90+00 +50 91+00

MATCHLINE STA. 91+00

BUS 51 (GRAND AVE)

99'

CITY OF WAUSAU (ELECTRIC)

18" LIGHT POLE EASEMENT
DOC. 558426 V. 501, P. 94

WISCONSIN PUBLIC SERVICE CORPORATION (GAS) (2-INCH STEEL)

18" LIGHT POLE EASEMENT
DOC. 558423 V. 501, P. 91

S 88°32'01" W 964.63'

LOT 3

LOT 2

LOT 1

BLOCK 3
RHOMBOID ADDITION
TO THE CITY OF WAUSAU

LOT 3

LOT 2

BLOCK 2
RHOMBOID ADDITION
TO THE CITY OF WAUSAU

500

DRILL HOLE
Y = 201,975.663
X = 283,766.629

T 29 N R 7 E 36 25

NOT RECOVERED
Y = 199,334.284
X = 283,834.235

T 29 N R 7 E 36

S 1°27'59" E 1,898.37'
ALONG QUARTER LINE

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET 160	E

FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050113_pn.dgn PLOT DATE : 6/27/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNER NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO MARATHON COUNTY.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	EXISTING	TOTAL	TOAL ACRES REMAINING	PLE SQ. FT.
5	CITY WALK LLC.	PLE	1.15	---	----	---	1.15	9

SE-NW

PARCEL 1
DOC. 777131

P.L.

18" LIGHT POLE EASEMENT
DOC. 558420 V. 501, P. 88

18" LIGHT POLE EASEMENT
DOC. 558418 V. 501, P. 86
(STILL NEED EXCEPTION
DEED V. 375, P. 293)

CITY OF WAUSAU
(ELECTRIC)

FRONTIER COMMUNICATIONS
(TELEPHONE)

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(4-INCH STEEL)

APPROXIMATE EXISTING
LONGITUDINAL JOINT (TYP.)

CONCRETE SIDEWALK 4-INCH (TYP.)

3/4" REBAR

1" IP

LIMITS OF REMOVING CONCRETE
SURFACE PARTIAL DEPTH (TYP.)

CONCRETE PAVEMENT PARTIAL DEPTH
REPAIR SURFACE REPAIR (TYP.)

RW29 94+82.40
33.37'

N 14°57'36" W
29.65'

DETAIL 1

3/4" REBAR

CITY OF WAUSAU (WATER)

DIVISION ST

5
CITY WALK LLC.

LOT 1
CSM 7131
VOL.27, P.114

MATCHLINE STA. 91+00

91+00 +50 92+00 +50 93+00 +50 94+00 +50 95+00 +50 96+00 +50 97+00

BUS 51 (GRAND AVE)

END PROJECT
STA. 96+45

CITY OF WAUSAU (WATER)

WISCONSIN PUBLIC SERVICE
CORPORATION (GAS)
(2-INCH STEEL)

CITY OF WAUSAU
(SANITARY SEWER)

CITY OF WAUSAU (WATER)

18" LIGHT POLE EASEMENT
DOC. 558419 V. 501, P. 87

CITY OF WAUSAU
(ELECTRIC)

LOT 1

18" LIGHT POLE EASEMENT
DOC. 558421 V. 501, P. 89

BLOCK 2
RHOMBOID ADDITION
TO THE
CITY OF WAUSAU

PLUMER ST

60'

LOT 7

LOT 5

LOT 1

BLOCK 1
RHOMBOID ADDITION
TO THE CITY OF WAUSAU

E KICKBUSCH ST

S 88°37'48" W 1,103.46'
ALONG SIXTEENTH LINE

60'

1" IP

NE-NW

CITY OF WAUSAU

S 1°27'59" E 1,320.87'
ALONG QUARTER LINE

COORDINATE INSTALLATION OF CONDUIT SPECIAL 3-INCH WITH THE CONCRETE REPAIR DURING STAGE 4. UTILIZE THE LIMITS OF PAVEMENT REMOVAL FOR INSTALLATION OF CONDUIT SPECIAL.

NOT RECOVERED
Y = 199,334.284
X = 283,834.235

500
DRILL HOLE
Y = 201,975.663
X = 283,766.629

DETAIL 1

N 14°57'36" W
3.00'

PLE46 95+12.05 36.40'

PLE47 95+15.05 36.41'

S 75°02'24" W
3.00'

P.L.

N 75°02'24" E
3.00'

95+12.05 33.40'

95+15.05 33.41'

PLE45

PLE48

5 P.L.E. - UTILITY
9 S.F.

S 14°57'36" E
3.00'

LEGEND

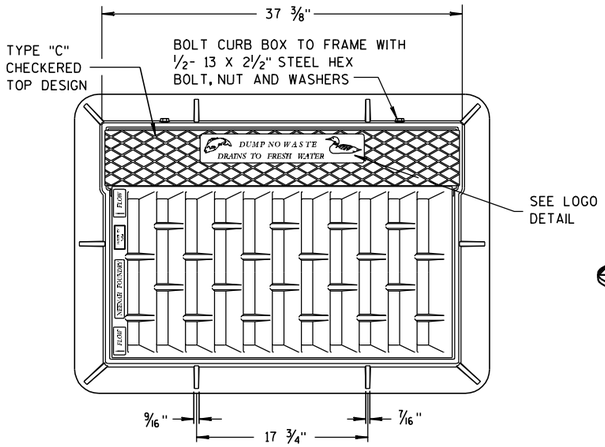
- CONCRETE PAVEMENT REPAIR (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH
- CONCRETE PAVEMENT REPLACEMENT (CONCRETE PAVEMENT 7-INCH OVER BASE AGGREGATE DENSE 1¼-INCH, 6-INCH)
- CONCRETE CURB AND GUTTER 30-INCH TYPE A

PROJECT NO: 6999-02-78	HWY: BUS 51	COUNTY: MARATHON	PLAN SHEET	SHEET E

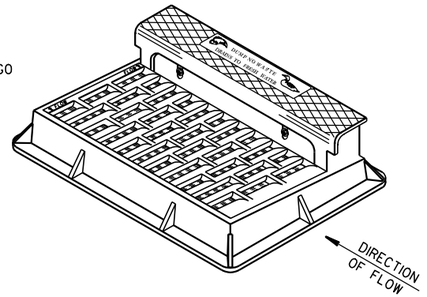
FILE NAME : S:\MAD\1000--1099\1089\260\Micros\Plan\050114_pn.dgn PLOT DATE : 5/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44

Standard Detail Drawing List

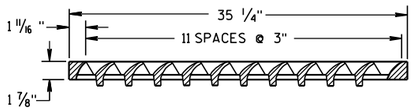
08A05-18A	INLET COVERS TYPE A, H, A-S, & H-S
08A05-18D	INLET COVER, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-07	CONDUIT
09B04-10	PULL BOX
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C03-03	TRANSFORMER/PEDESTAL BASES
09C05-07	CONCRETE CONTROL CABINET BASES
09C08-04	CONCRETE BASE, TYPE 7
09C10-02	TRANSFORMER BASE FOR 15" BOLT CIRCLE
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-02	SIGNAL OR LIGHTING CONTROL CABINET
09E01-12F	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 17 (40 FEET)
09E01-12G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-04	NON-FREEWAY LIGHTING UNIT POLE WIRING
10A17-03A	POLES, TYPES 7 & 7BR ALUMINUM - 35'-10" SHAFT
11B02-02	CONCRETE MEDIAN NOSE
13C01-15	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C08-02	CONCRETE PAVEMENT PARTIAL DEPTH REPAIR
13C09-09A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-09B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-09C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
15C03-01	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C19-01B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-02F	PAVEMENT MARKING FOR SHARED LANE
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-01	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE

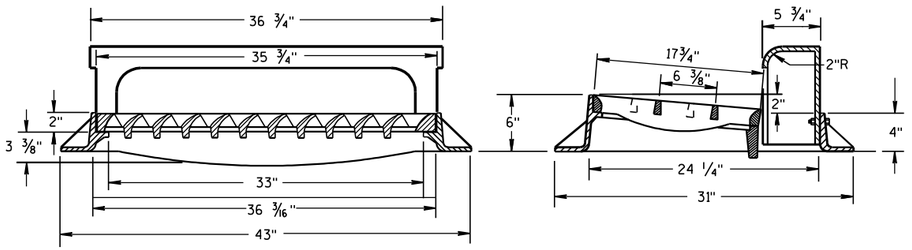


NOTE:
GRATE IS REVERSIBLE.



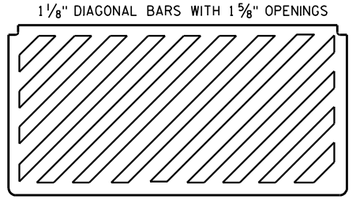
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"





TYPE "H"

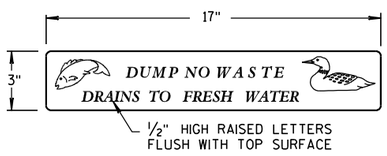
(APPROXIMATE WEIGHT 441 LBS.)
FRAME..... 181 LBS.
GRATE..... 146 LBS.
CURB BOX..... 114 LBS.



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 159 LBS.)
GRATE..... 159 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL

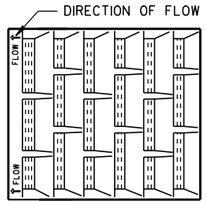
GENERAL NOTES

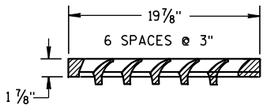
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

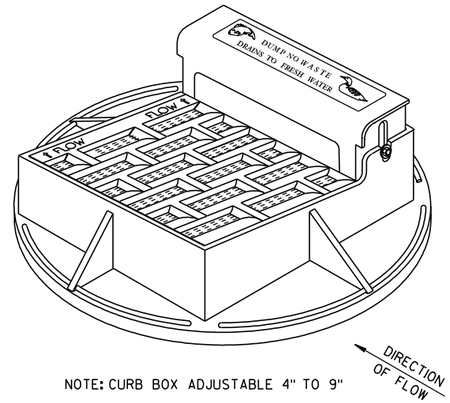
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

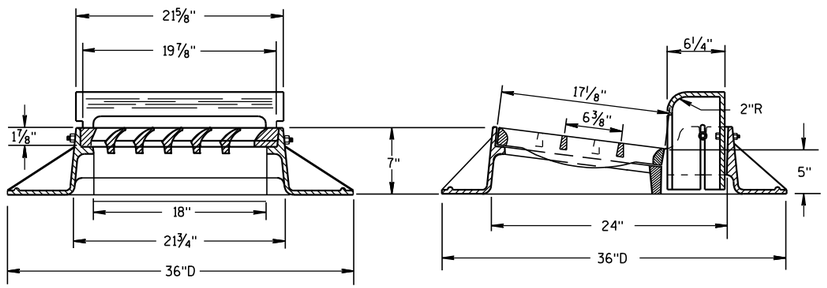
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





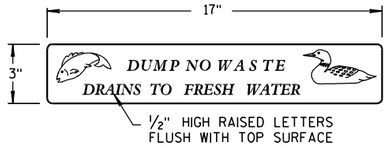


NOTE: CURB BOX ADJUSTABLE 4" TO 9"



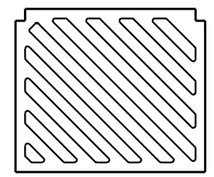
TYPE "A"

(APPROXIMATE WEIGHT 340 LBS.)
FRAME..... 185 LBS.
GRATE..... 71 LBS.
CURB BOX..... 84 LBS.



LOGO DETAIL

NOTE:
GRATE IS REVERSIBLE.



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

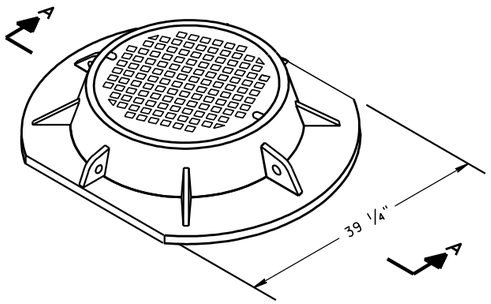
(NOTED AS TYPE A-S ON DRAINAGE TABLE)

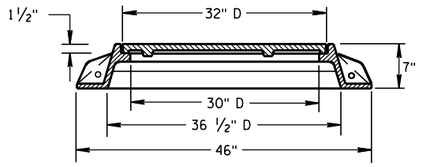
INLET COVERS TYPE A, H, A-S, & H-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 8 A 5-18a



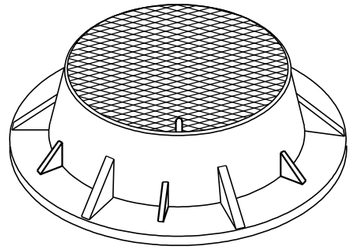


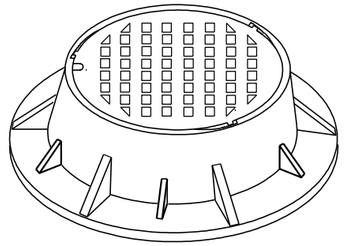
SECTION A-A

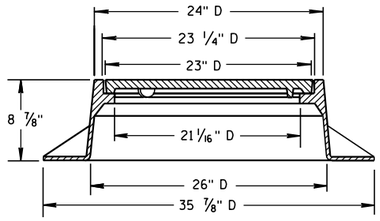
TYPE "K"

(APPROXIMATE WEIGHT 439 LBS.)

FRAME.....216 LBS.
LID.....223 LBS.



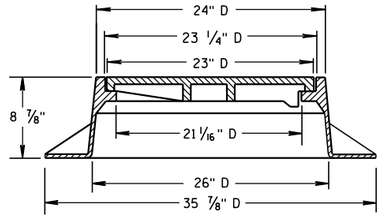




TYPE "J"

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....152 LBS.
LID.....115 LBS.



TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....158 LBS.
LID.....109 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

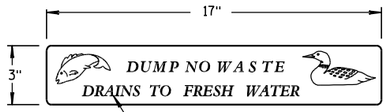
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

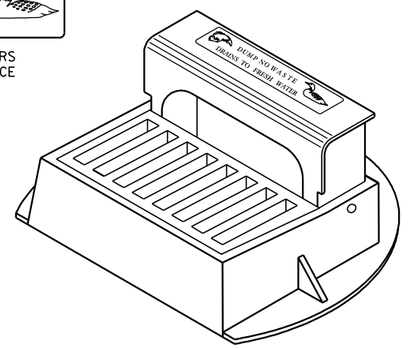
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

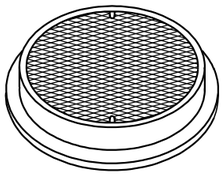
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

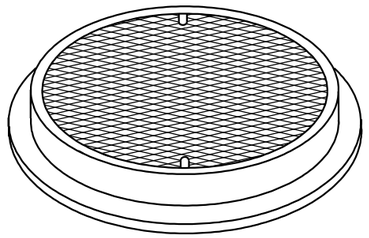
THE ACTUAL WEIGHT OF COVERS MAY VARY WITH 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

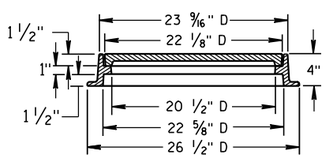


LOGO DETAIL





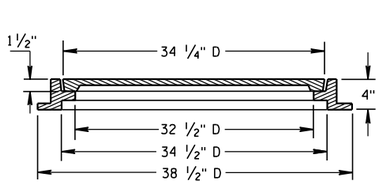




TYPE "L"

(APPROXIMATE WEIGHT 158 LBS.)

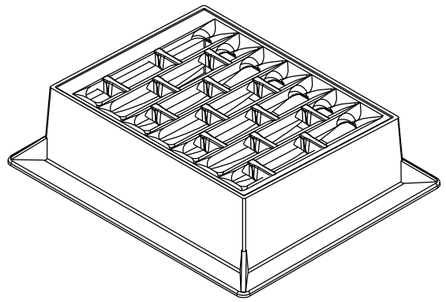
FRAME.....81 LBS.
LID.....77 LBS.

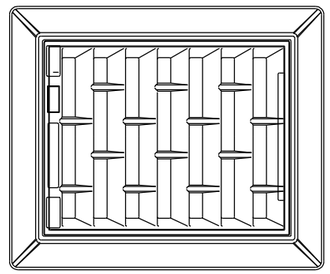


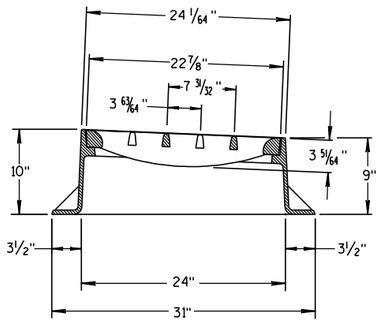
TYPE "M"

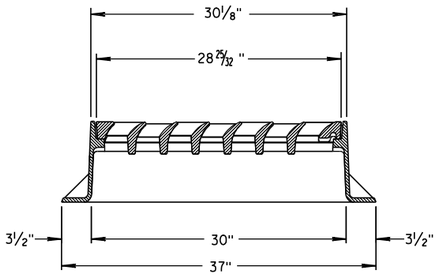
(APPROXIMATE WEIGHT 377 LBS.)

FRAME..... 125 LBS.
LID..... 252 LBS.

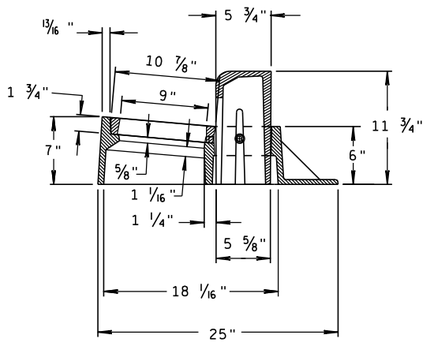


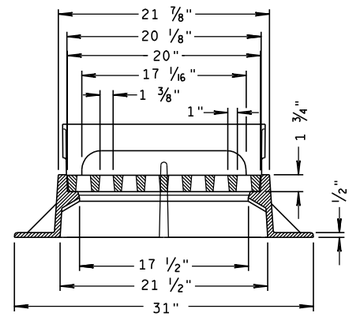






INLET COVER TYPE "BW"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 344 LBS.)

FRAME.....206 LBS.
GRATE..... 46 LBS.
CURB BOX..... 92 LBS.

INLET COVERS, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

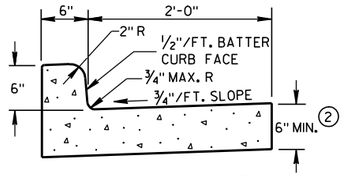
/S/ Jerry H. Zaas
ROADWAY STANDARDS ENGINEER

FHWA

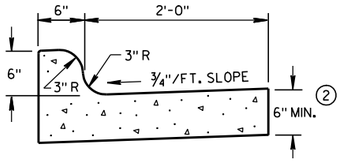
NT

6

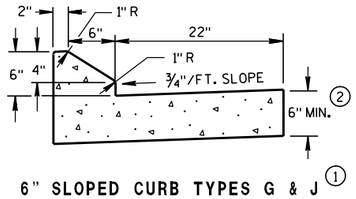
S.D.D. 8 A 5-18d



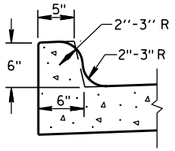
TYPES A & D (1)



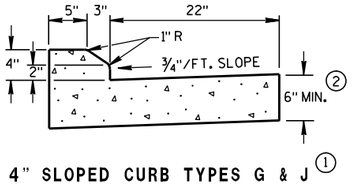
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

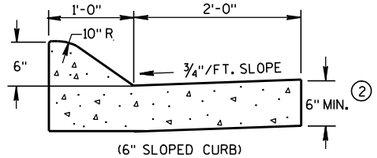


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

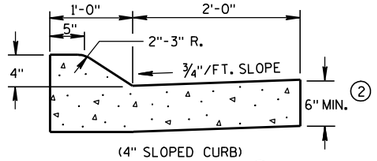


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

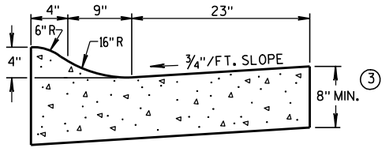


(6" SLOPED CURB)



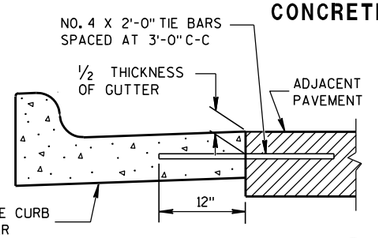
(4" SLOPED CURB)

TYPES A & D (1)

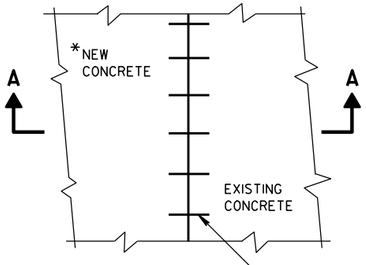


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

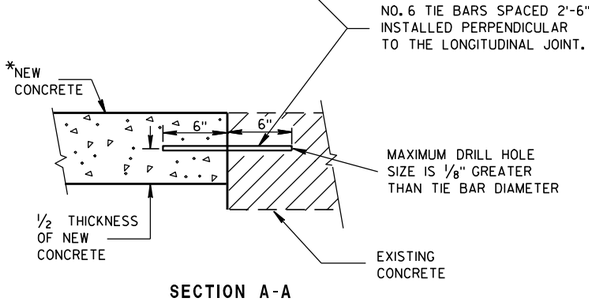


TYPICAL TIE BAR LOCATION (1)



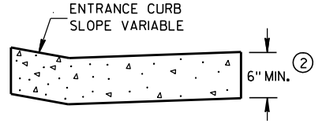
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

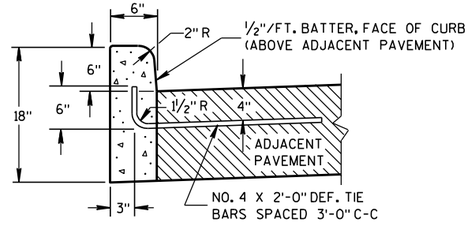


SECTION A-A

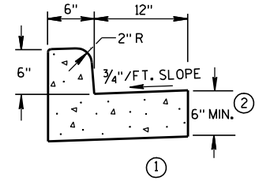
TIE BARS DRILLED INTO EXISTING PAVEMENT



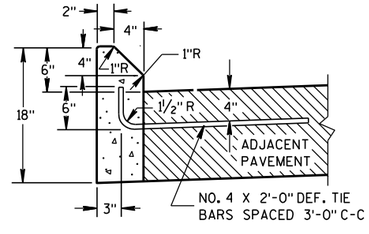
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



(1)
TYPES A & D



(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"



(1)
TYPES G & J

CONCRETE CURB

REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

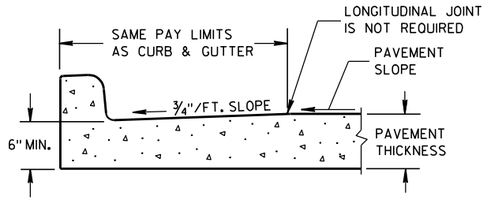
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

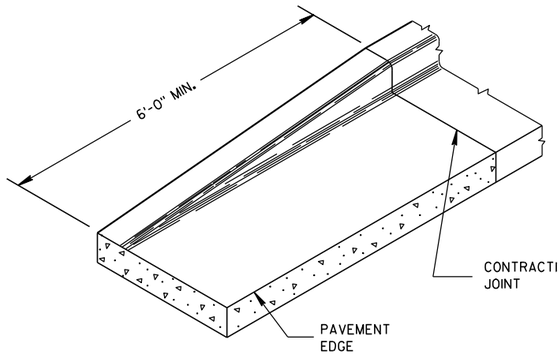
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

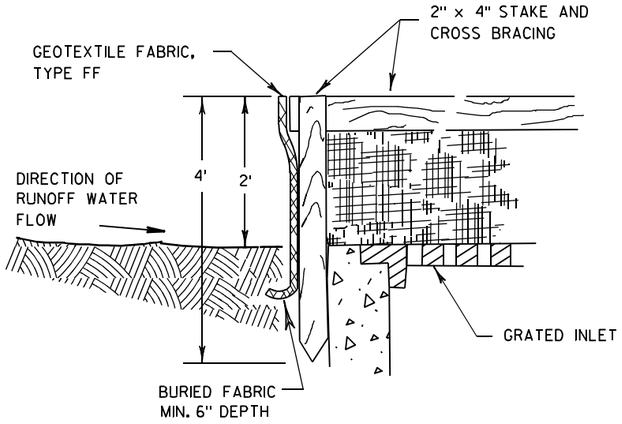
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

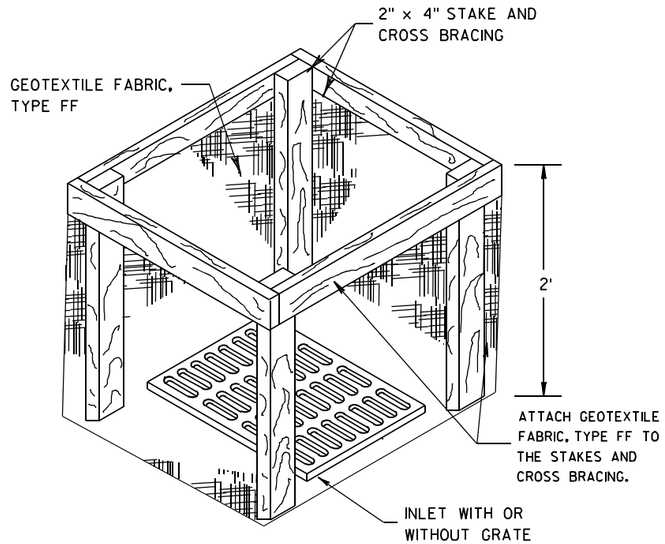
APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

FHWA

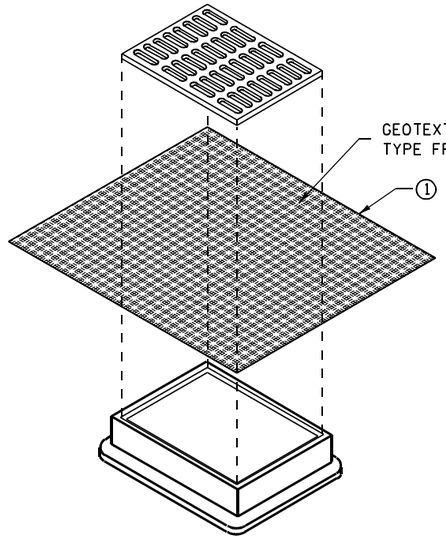
6

S.D.D. 8 D 1-17



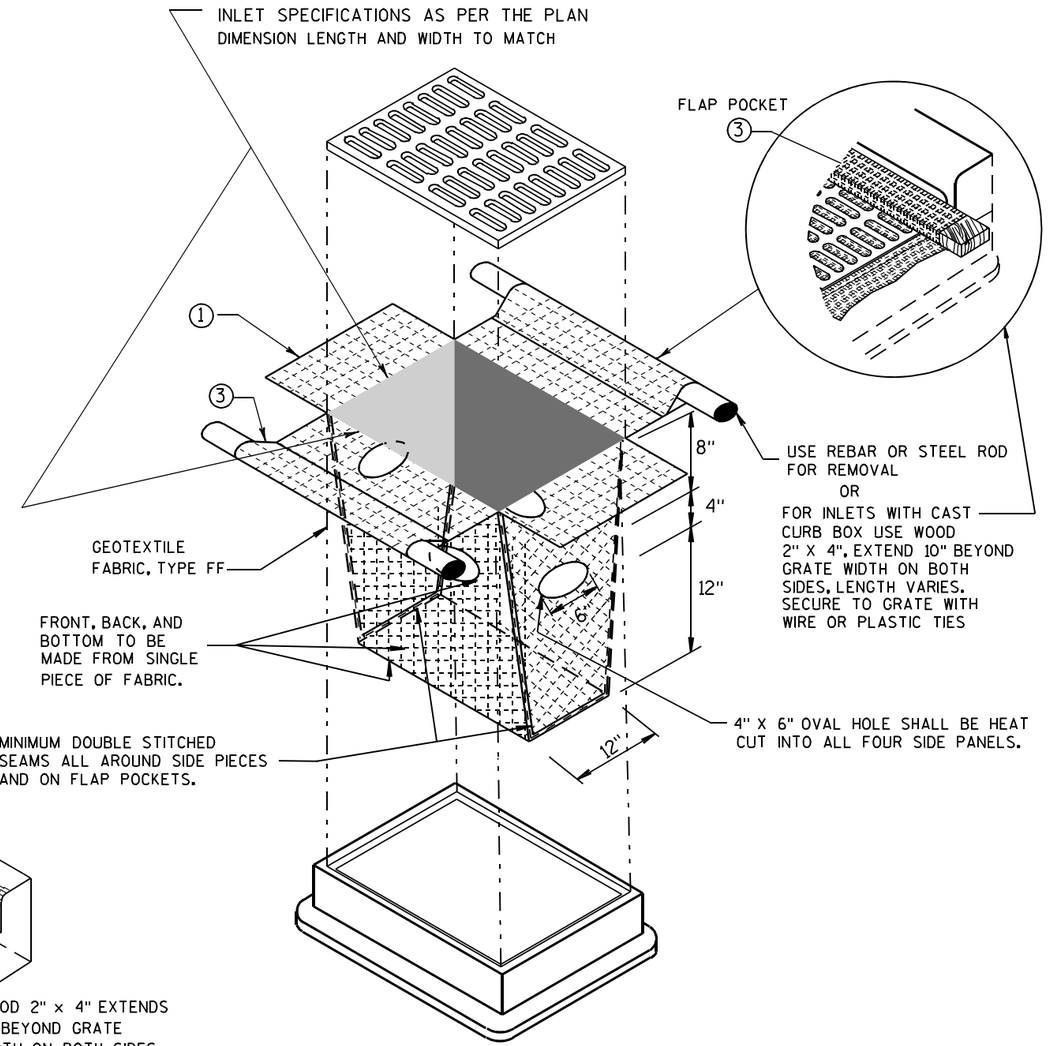


INLET PROTECTION, TYPE A



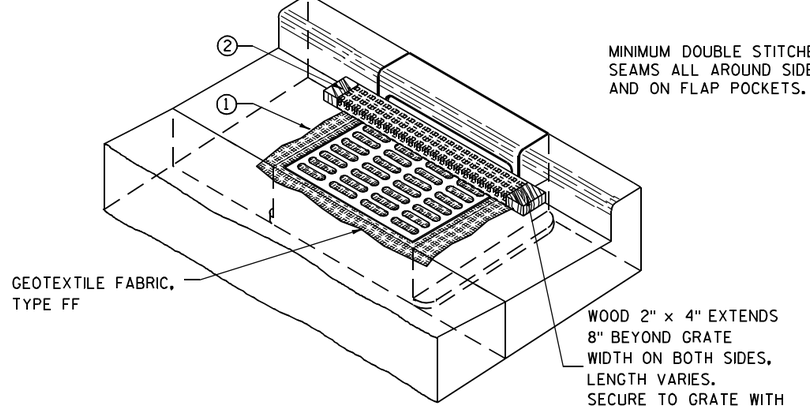
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

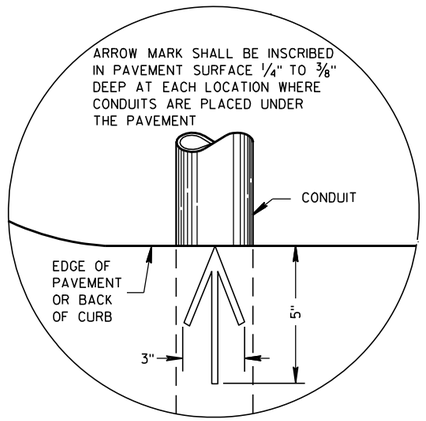
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

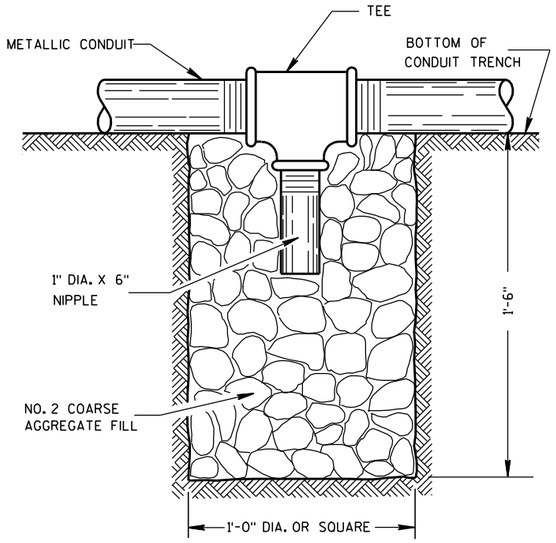
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



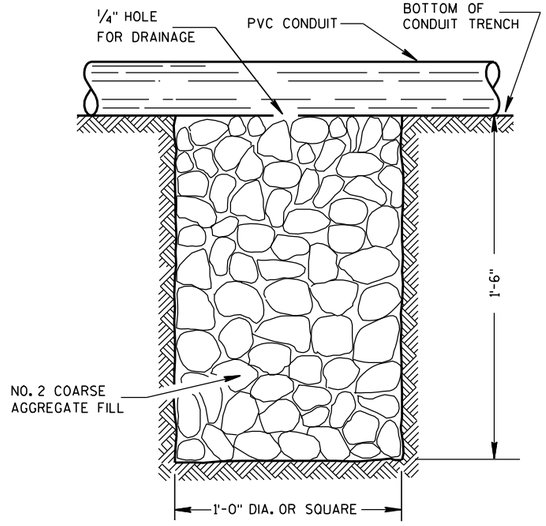
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

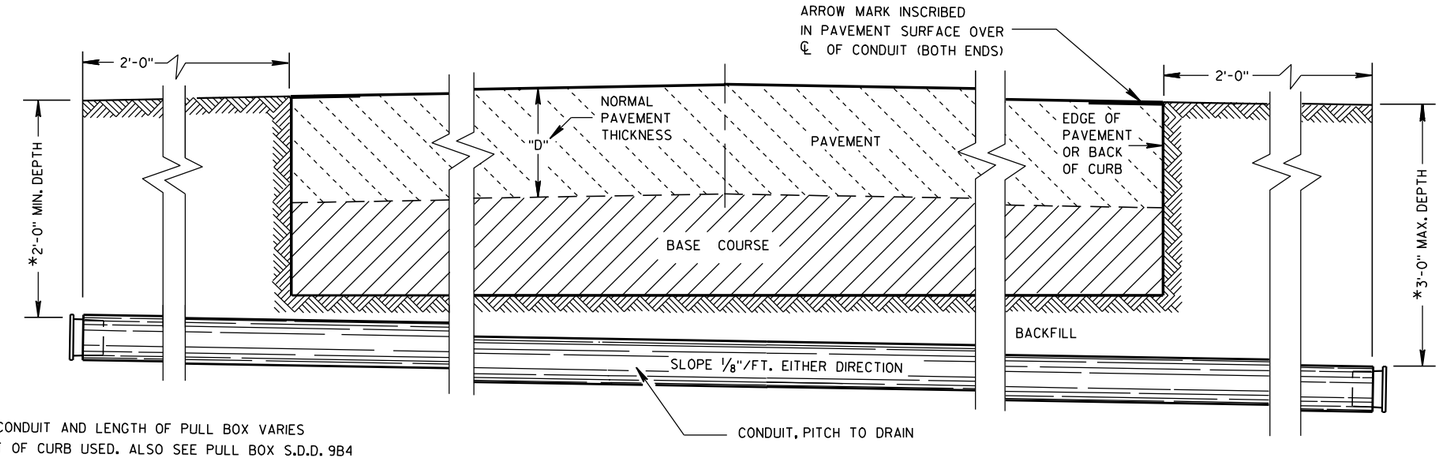
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 — DATE

/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI

FHWA

HWYS

6

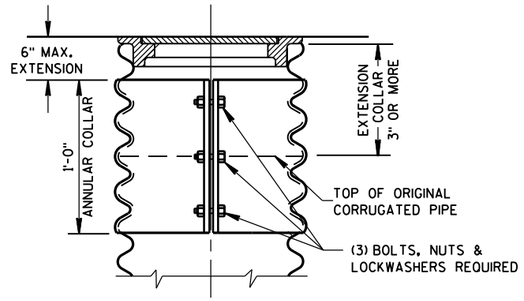
S.D.D. 9 B 2-7

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

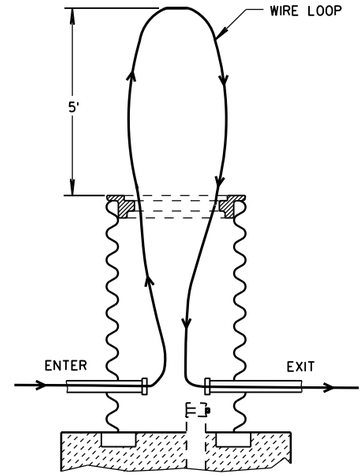
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

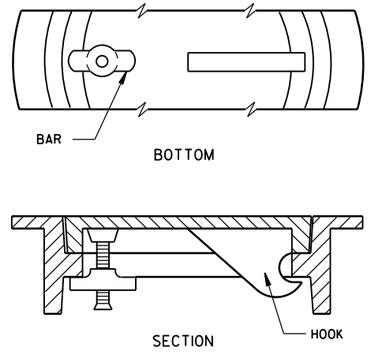
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

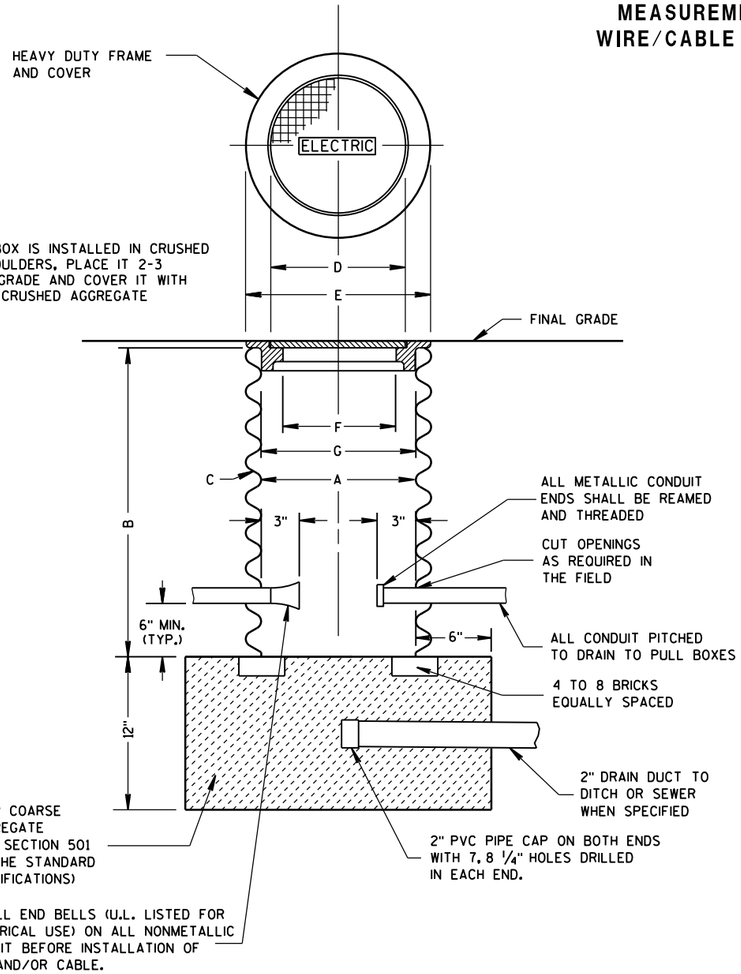


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



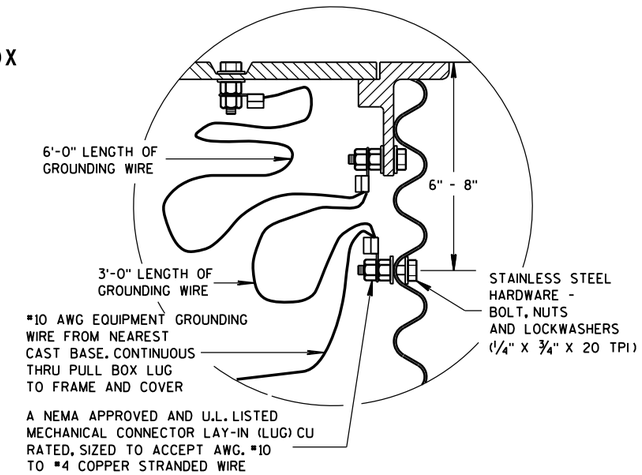
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

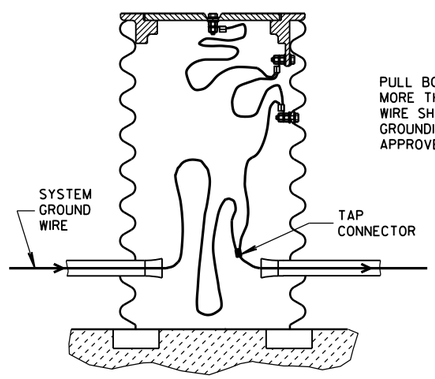


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-7-2013 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

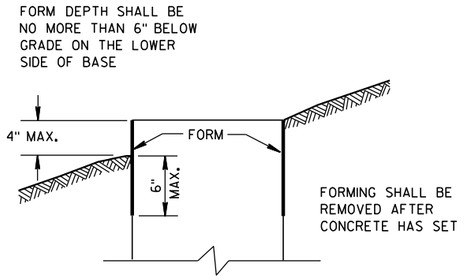
FHWA

6

S.D.D. 9 B 4-10

6

S.D.D. 9 B 4-10



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) I" DIA. X 3'-6" ANCHOR RODS.

(3) (4) I" DIA. X 5'-0" ANCHOR RODS.

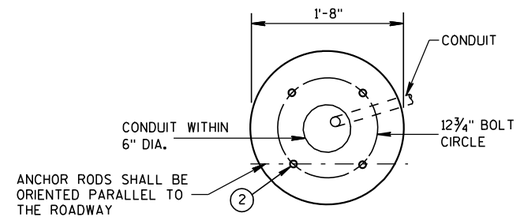
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

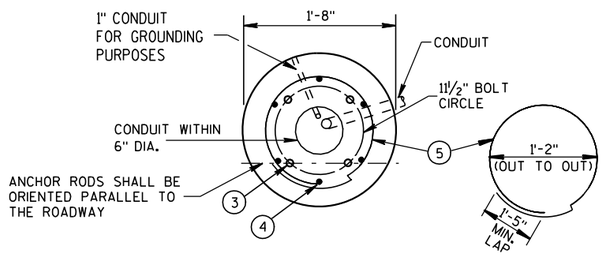
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

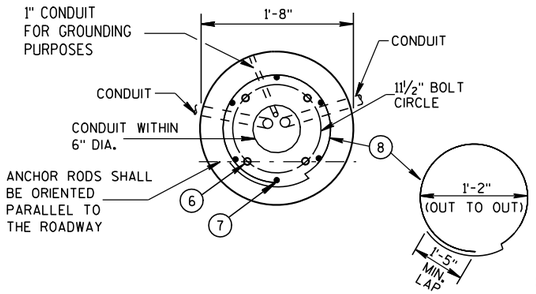
(6) (4) I" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

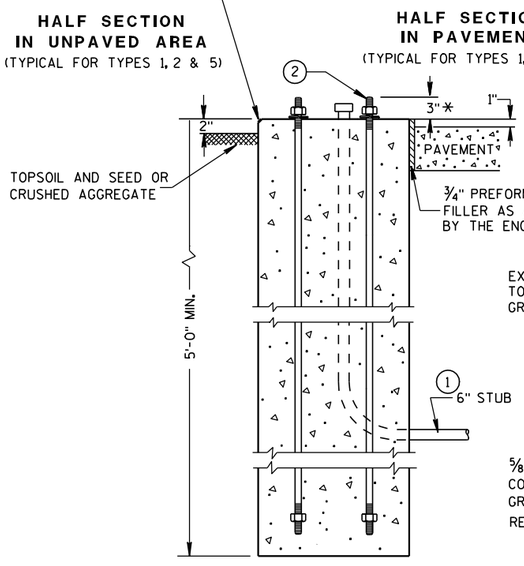






FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

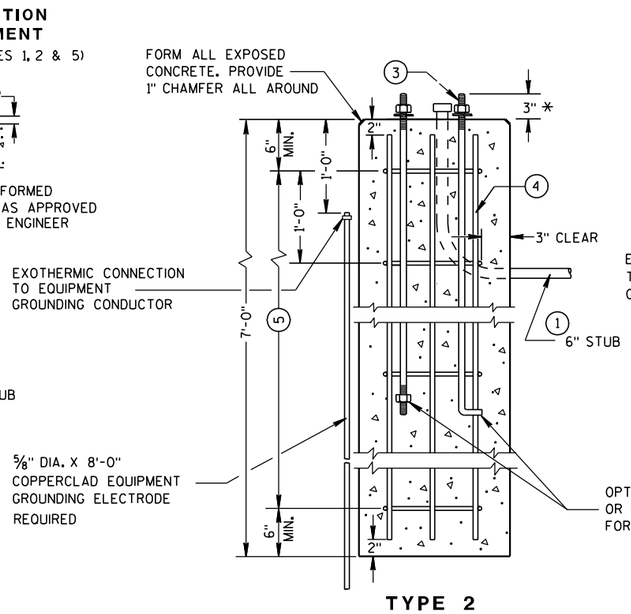
HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2 & 5)



HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2 & 5)

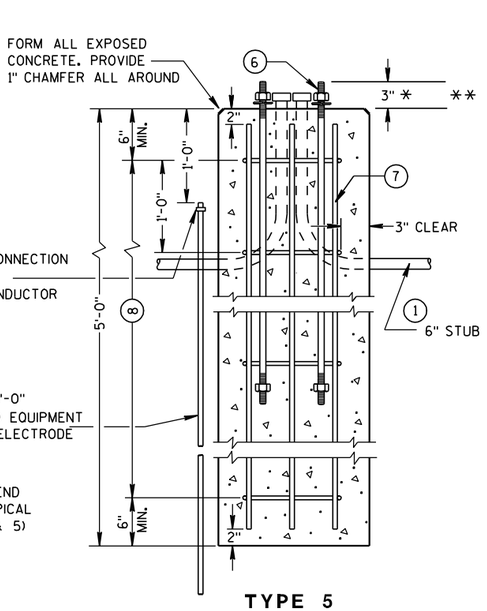
TYPE 1

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 2

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 5

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/3/10 — DATE
/S/ Joanna L. Rush — STATE ELECTRICAL ENGI
169
HWYS
FHWA

S.D.D. 9 C 2-6

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

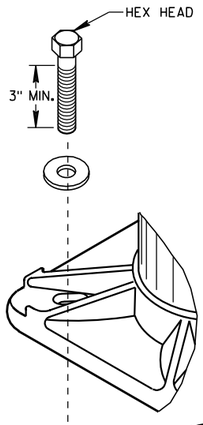
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

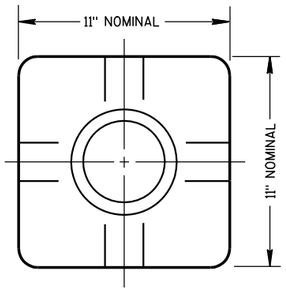
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

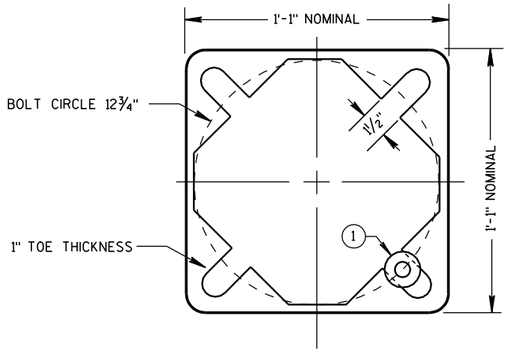
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1½", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

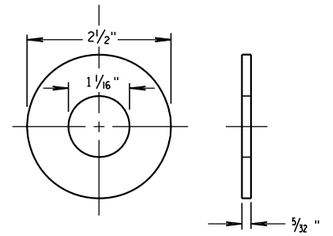




TOP VIEW
(PEDESTAL BASE)

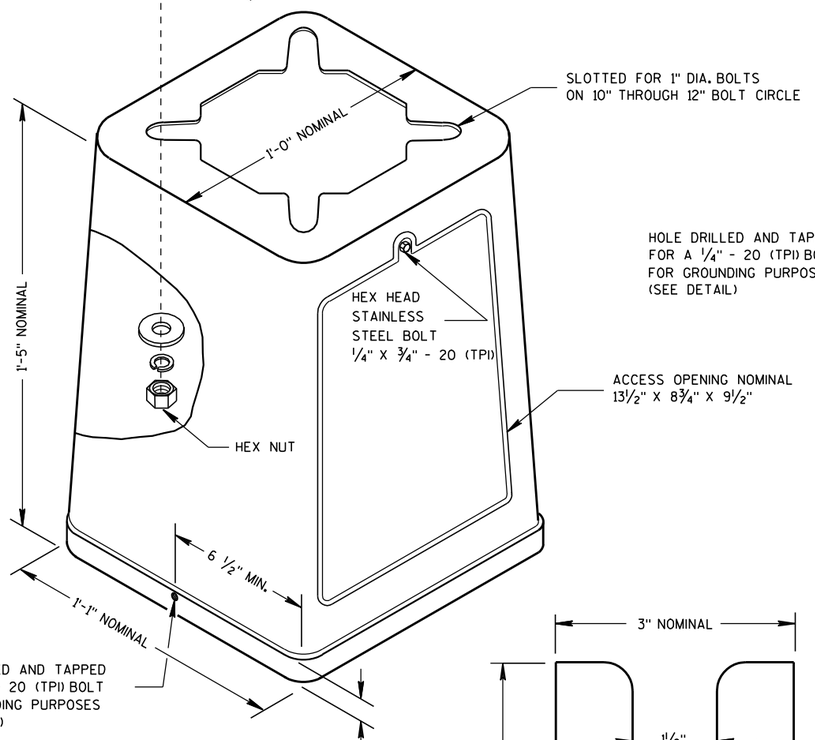


BOTTOM VIEW
(PEDESTAL BASE)

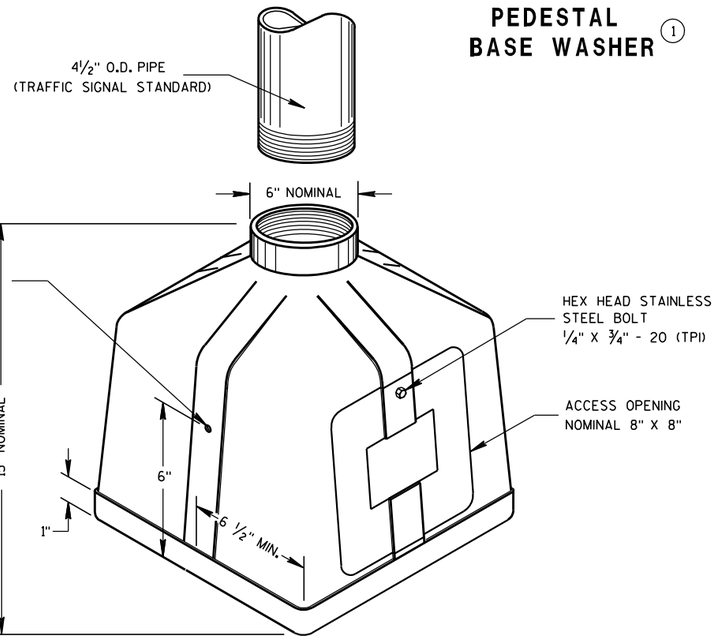


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

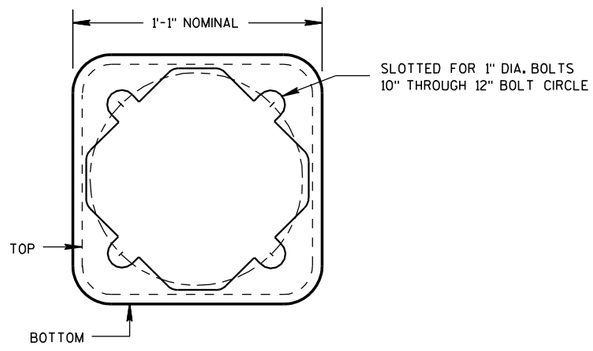


ISOMETRIC VIEW

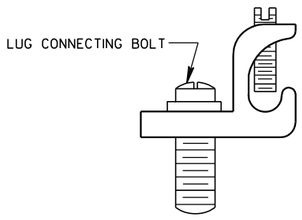


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

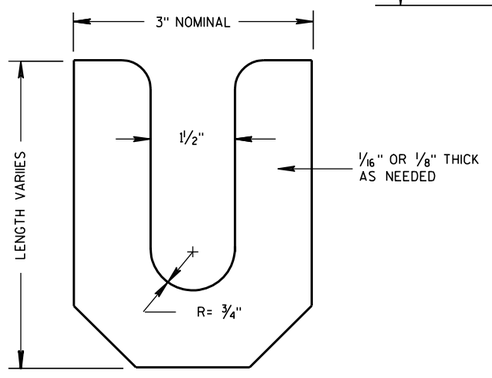


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/27/09 — DATE
/S/ Joanna L. Rich — STATE ELECTRICAL ENGI
170
HWYS
FHWA

6

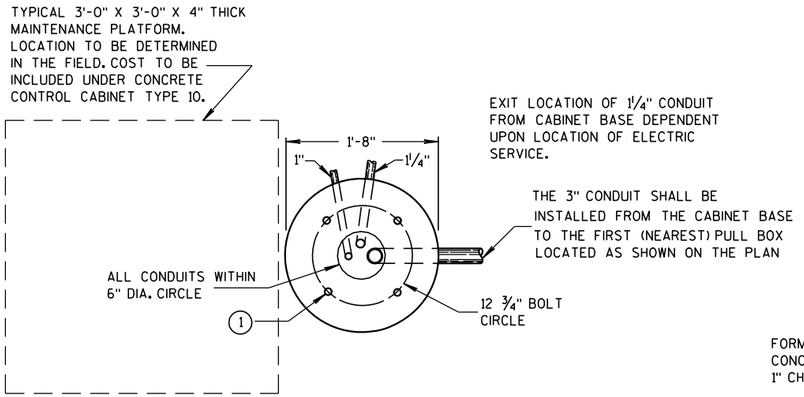
S.D.D. 9 C 3-3

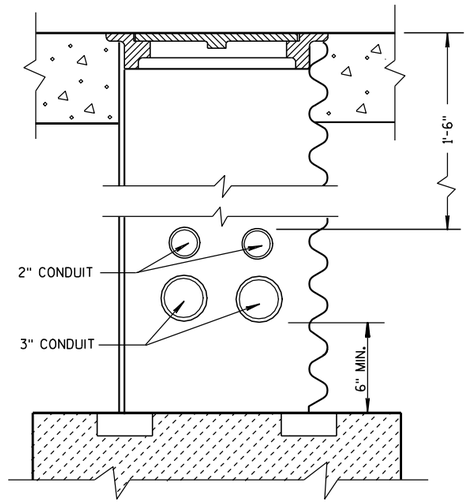
6

S.D.D. 9 C 3-3

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

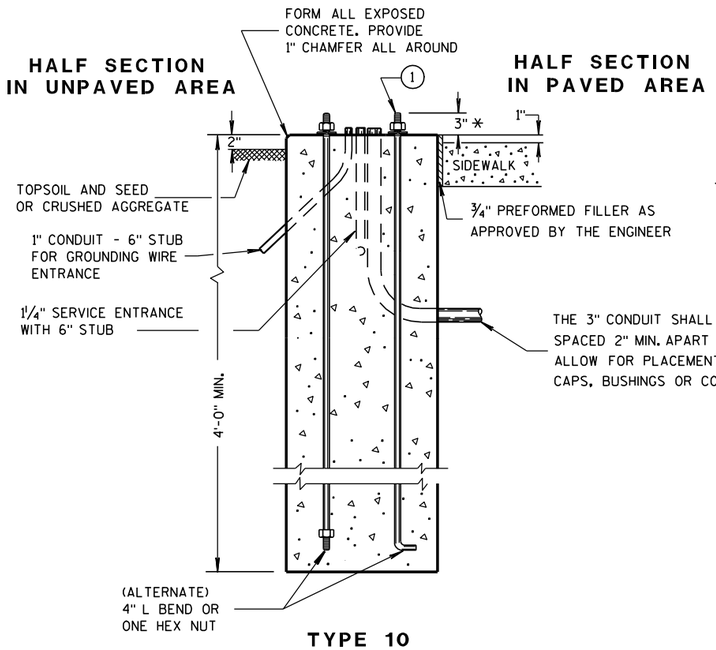
* INCLUDES MAINTENANCE PLATFORM.



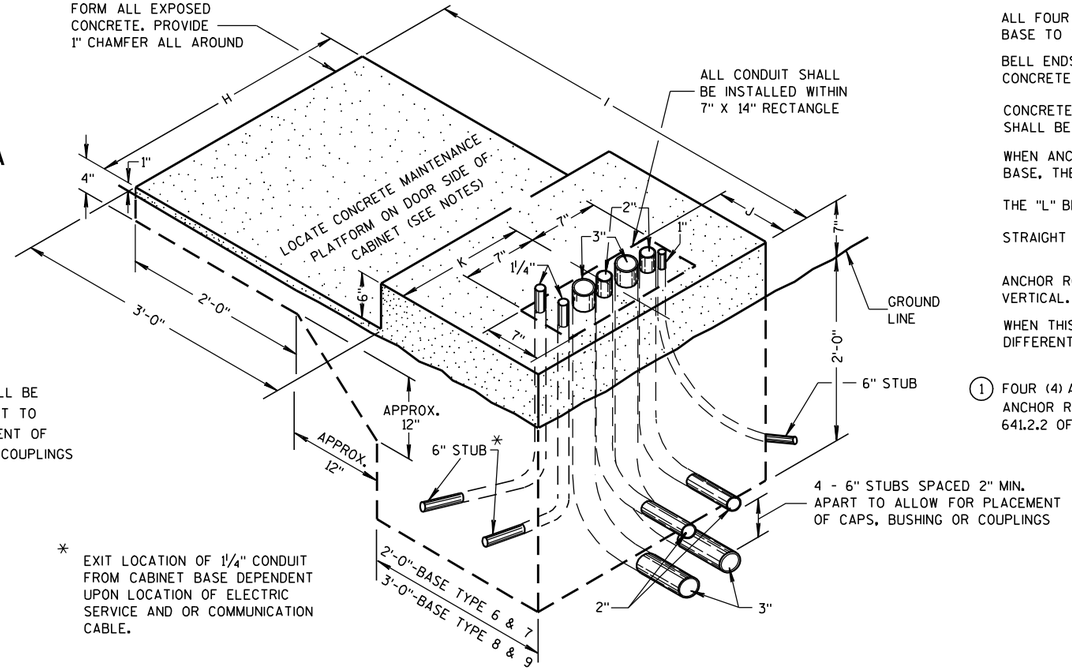


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* EXIT LOCATION OF 1¼" CONDUIT FROM CABINET BASE DEPENDENT UPON LOCATION OF ELECTRIC SERVICE AND OR COMMUNICATION CABLE.

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/3/10 DATE
/S/ Joanna L. [illegible] STATE ELECTRICAL ENGI
HWYS
FHWA

6

S.D.D. 9 C 5-7

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE 1" X 60".

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

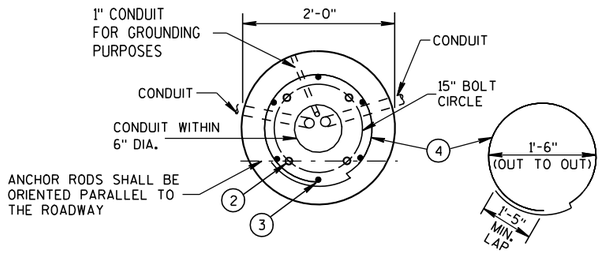
BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

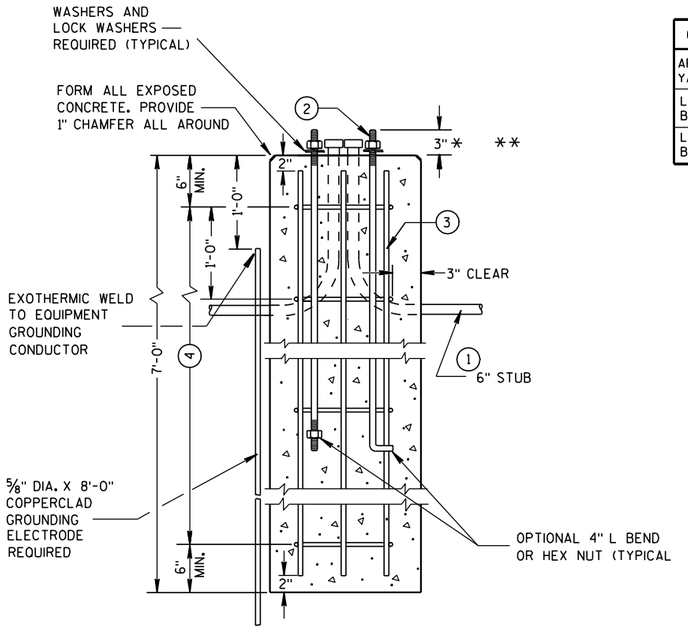
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 5'-0" ANCHOR RODS

(3) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

(4) (7) NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



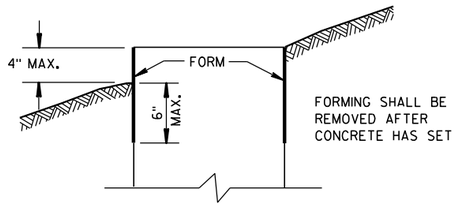


CONCRETE BASE, TYPE 7 (FOR 40' LIGHT POLES)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

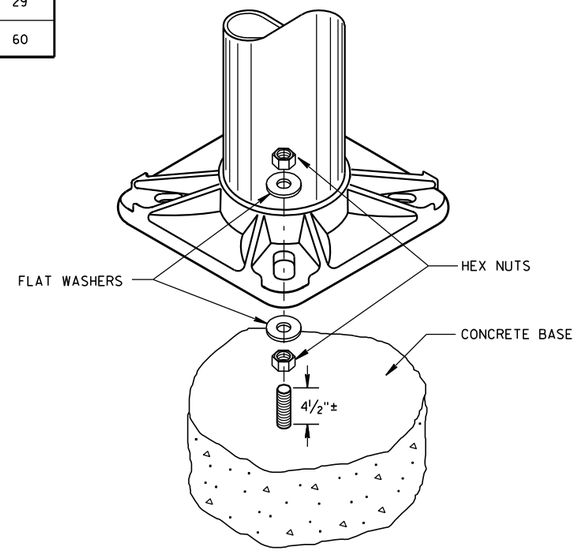
** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	0.8
LBS. OF HOOP BAR STEEL	29
LBS. OF VERTICAL BAR STEEL	60



NON-BREAKAWAY INSTALLATION (LEVELING NUT)

CONCRETE BASE, TYPE 7

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/10 DATE

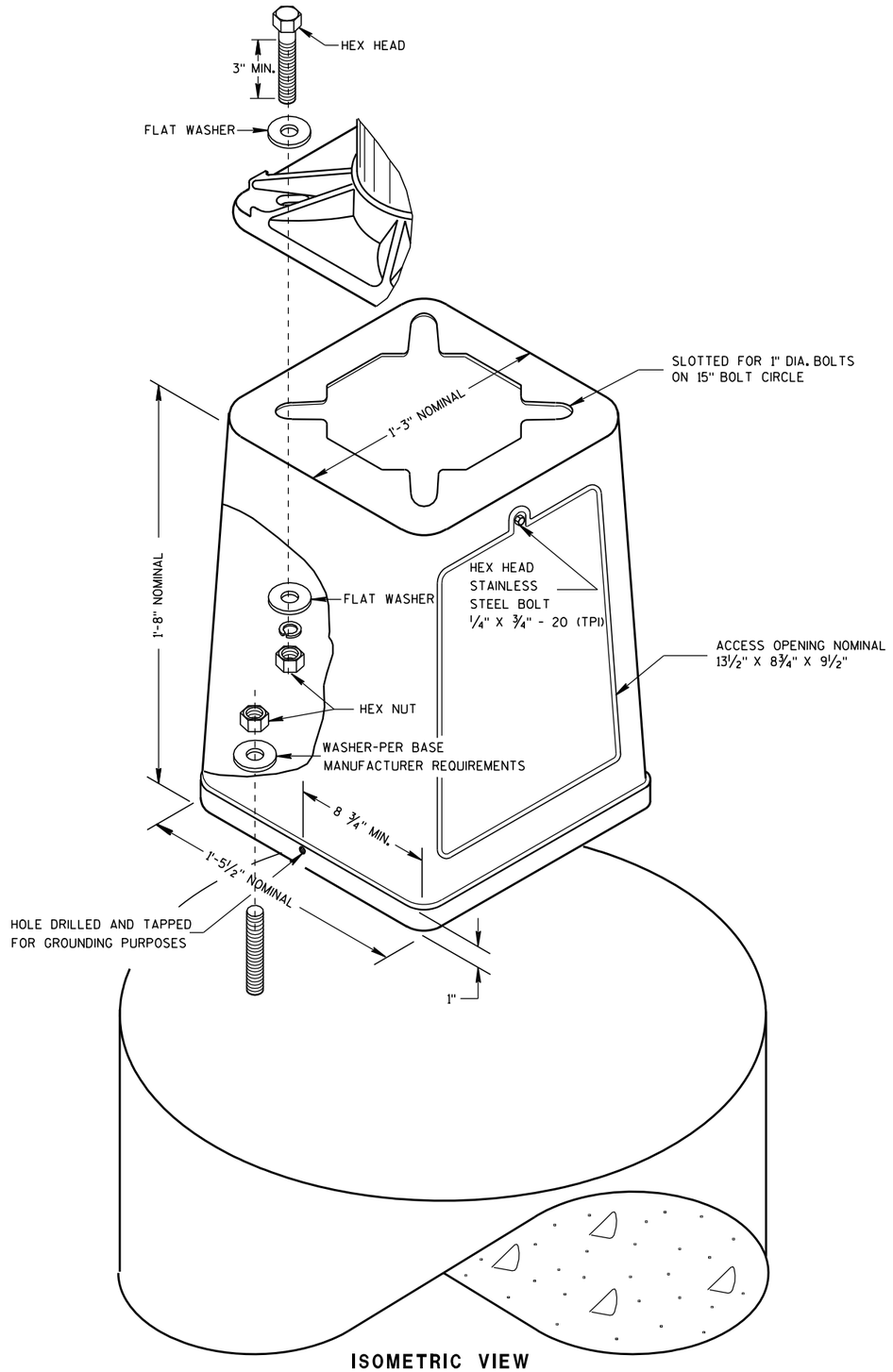
/S/ Joanna L. Rich
STATE ELECTRICAL ENGI

HWYS

FHWA

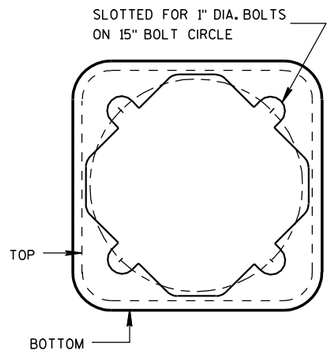
6

S.D.D. 9 C 8-4

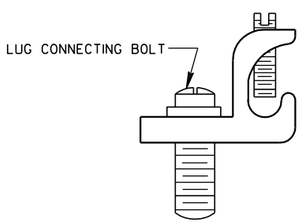


ISOMETRIC VIEW

TRANSFORMER BASE



BOTTOM VIEW



TYPICAL MECHANICAL
CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BREAKAWAY BASES (WHERE REQUIRED) WILL BE MEASURED AND PAID AS SEPARATE ITEMS OF WORK IN ADDITION TO THE LIGHT POLE.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD), HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIMS SHALL BE SIZED TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

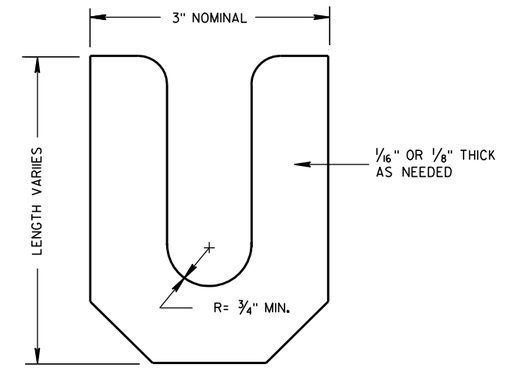
A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE TRANSFORMER BASES.

THE MECHANICAL CONNECTOR (GROUNDING LUG) SHALL BE INSTALLED USING THE TAPPED HOLE PROVIDED BY THE MANUFACTURER. THE MOUNTING BOLT HEXHEAD), NUT, WASHER AND LOCK WASHER SHALL BE STAINLESS STEEL, SIZED TO FIT THE THREADING AND HOLE SIZE, AND BE OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

SHOULD A GROUNDING LUG MOUNTING HOLE NOT BE PROVIDED, THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" X 3/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE. IT SHALL BE MOUNTED IN THE SAME LOCATION AS IS SHOWN ON THE DRAWING.

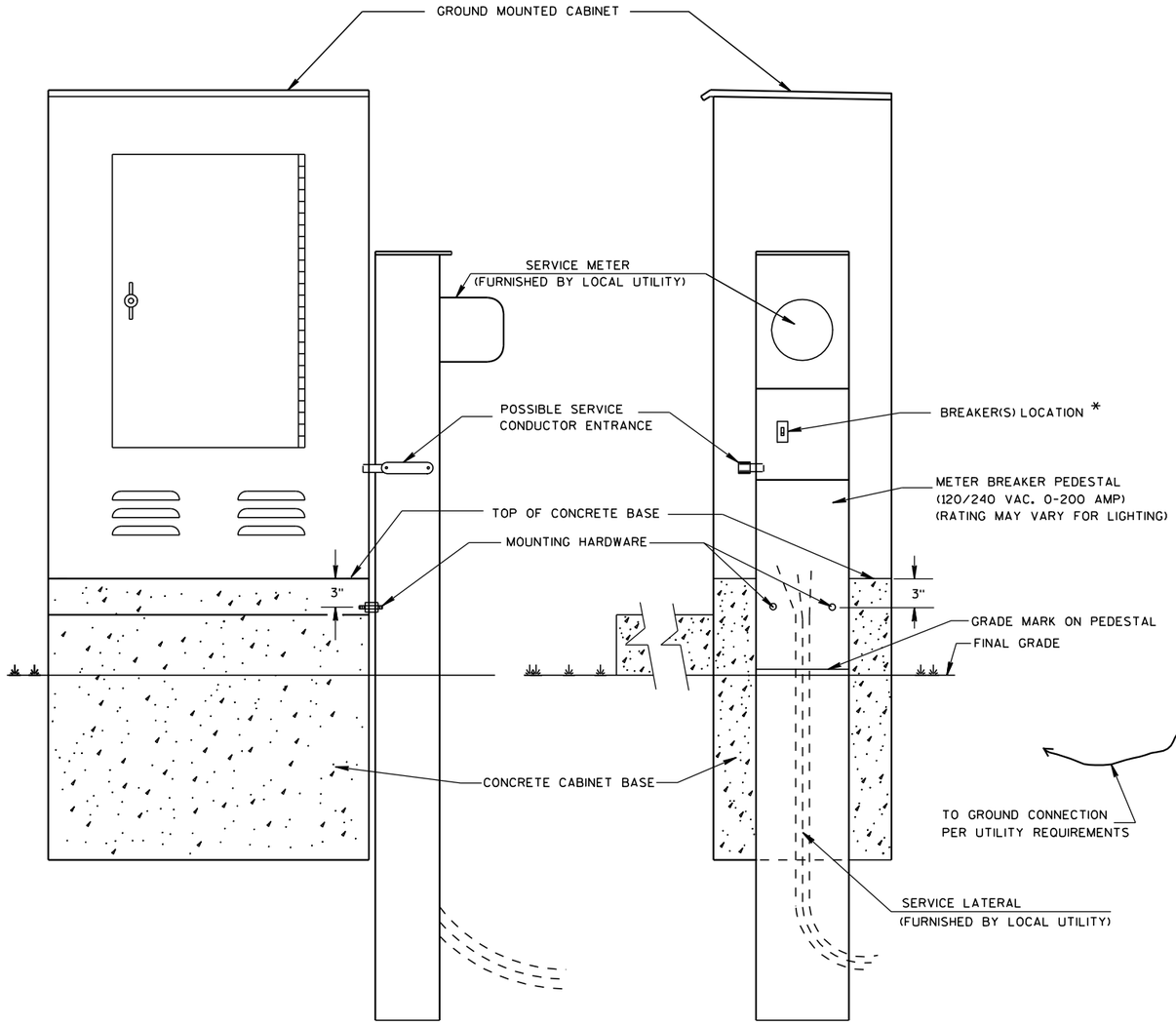
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, AND LOCK WASHERS, THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

THE ACCESS DOOR SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE BASE.



LEVELING SHIM

TRANSFORMER BASE FOR 15" BOLT CIRCLE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/2/07 DATE	/S/ Balu Ananthanarayanan STATE ELECTRICAL ENGI HWYS
FHWA	



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

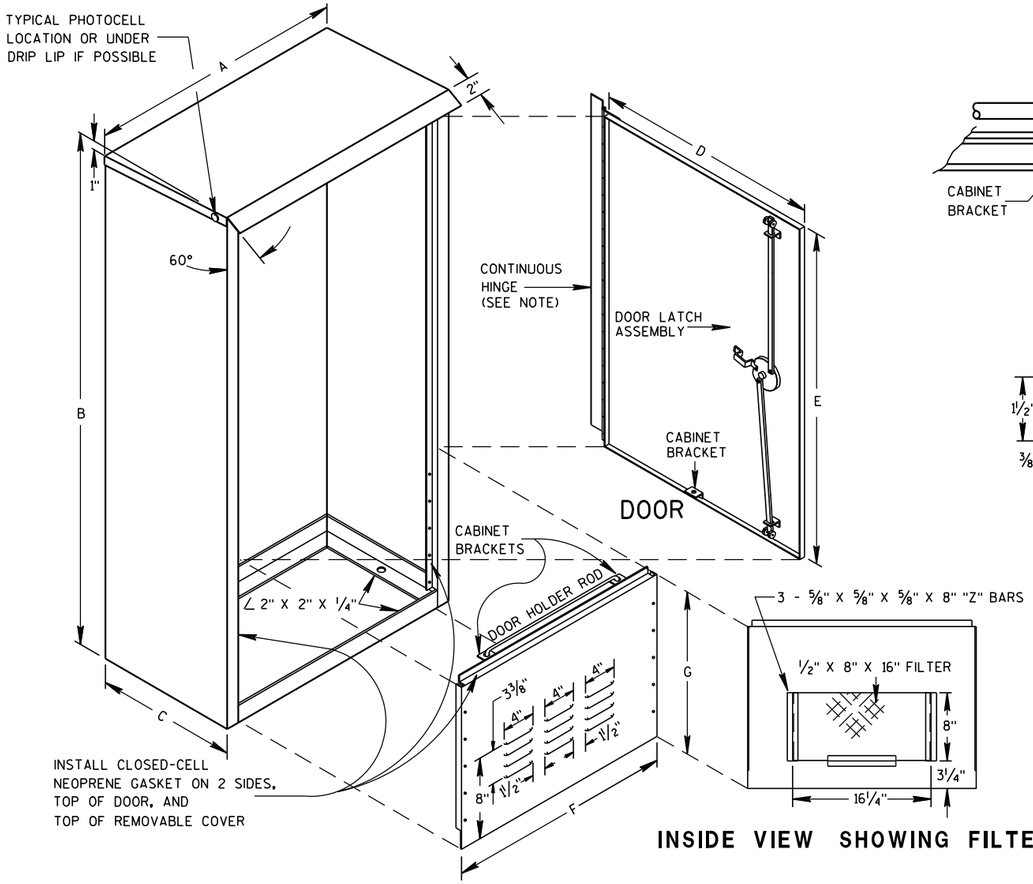
IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

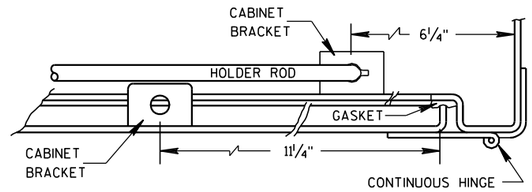
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/27/09 DATE
/S/ Joanna L. Bush STATE ELECTRICAL ENGI
174
HWYS
FHWA

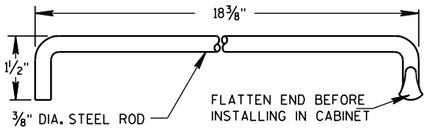


REMOVABLE COVER

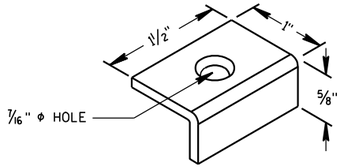
INSIDE VIEW SHOWING FILTER



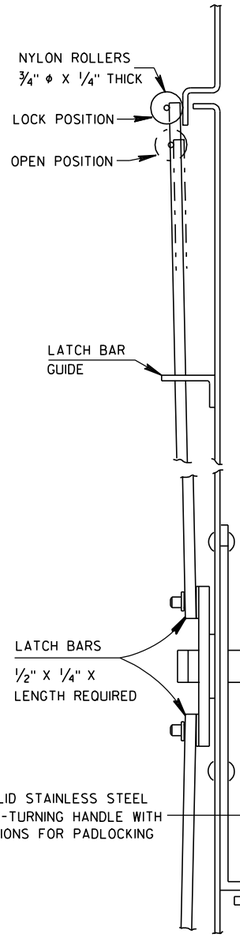
HINGE & DOOR HOLDER



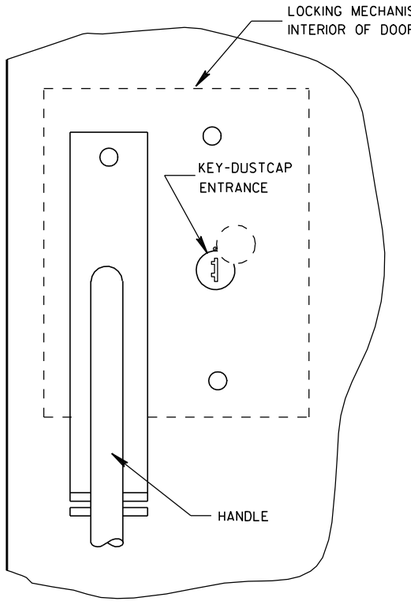
HOLDER ROD



CABINET BRACKET

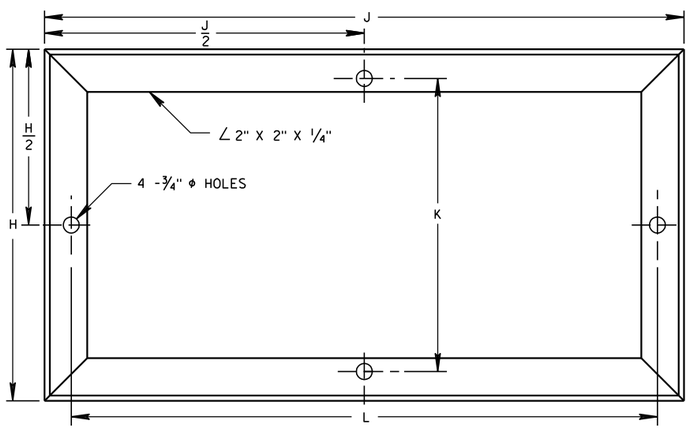


SIDE VIEW



FRONT VIEW

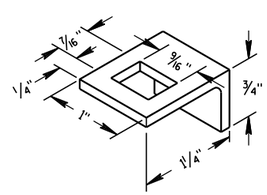
LATCH ASSEMBLY



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2



LATCH BAR GUIDE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

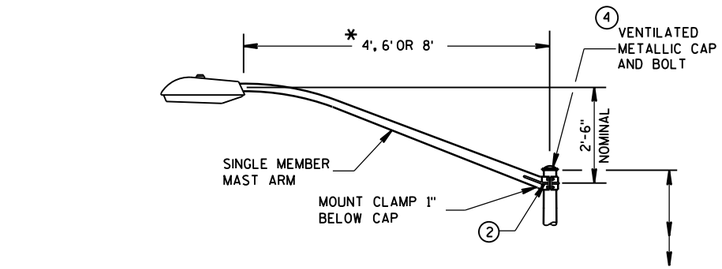
SIGNAL OR LIGHTING CONTROL CABINET

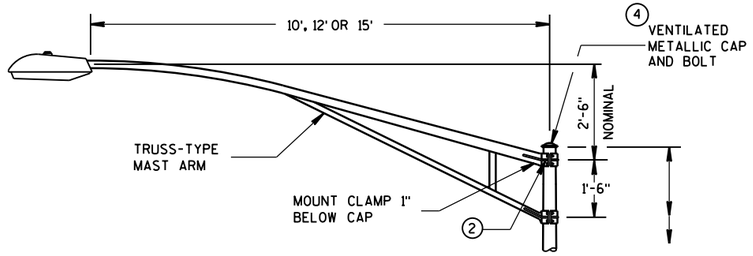
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

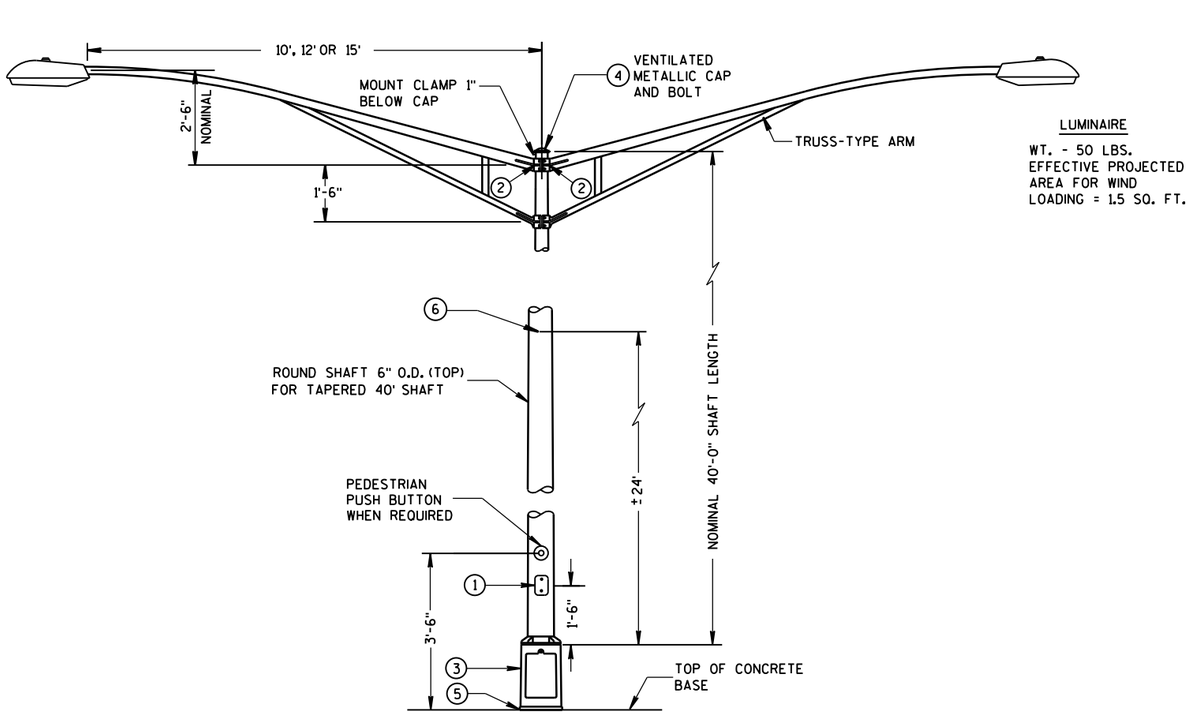
APPROVED
10/21/96 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI
HWYS
FHWA

6
S.D.D. 9 D 2-2

*RISE FOR 4' ARM SHALL BE 2'-0".

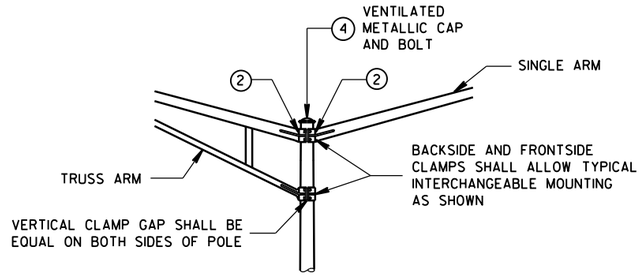






TYPE 17 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL LUMINAIRE POLE MOUNTINGS SHALL BE DESIGNED FOR TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 17 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 17 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SHOE BASE SHALL BE SLOTTED TO ACCEPT A 15" BOLT CIRCLE (14" X 16" SLOT) USING 1" ANCHOR RODS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR A 1⅜" HOLE IN THE POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM FHWA APPROVED TRANSFORMER BASE WHEN REQUIRED, SHALL HAVE AN ULTIMATE STATIC LOAD STRENGTH OF AT LEAST 40,000 FT. - LBS.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

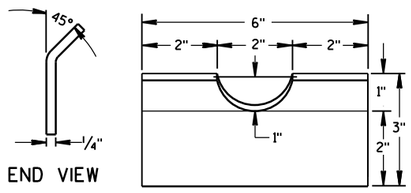
(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

POLE MOUNTINGS FOR LIGHTING UNIT, TYPE 17 (40 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

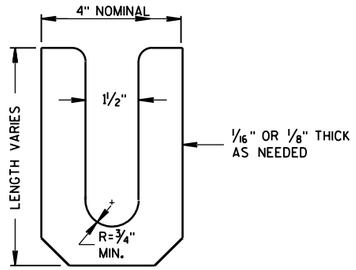
S.D.D. 9 E 1-12f



FRONT VIEW

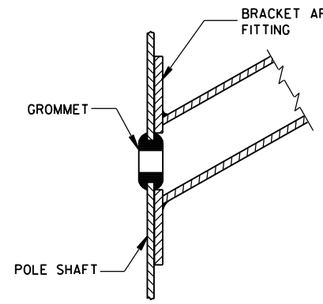
RECTANGULAR CLAMP SHIM

(4 TO A SET)

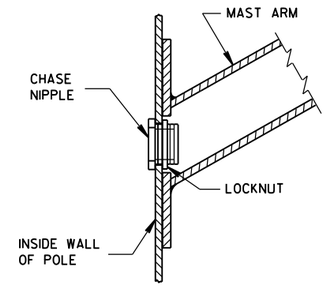


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

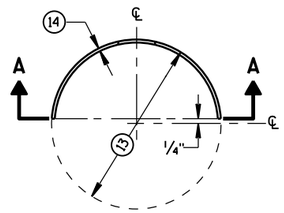
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

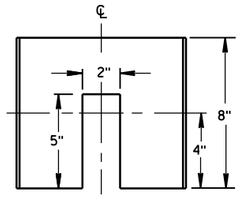
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



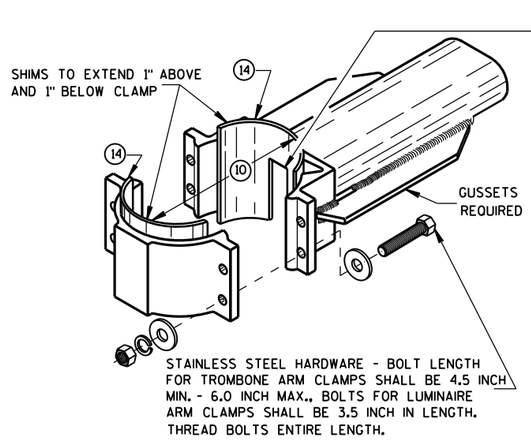
PLAN VIEW



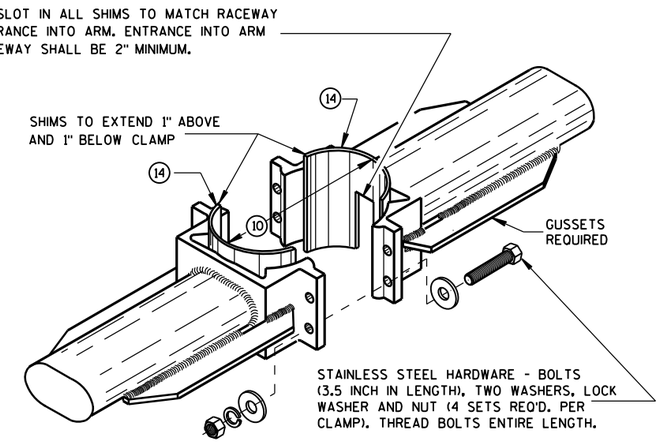
SECTION A-A

CIRCULAR CLAMP SHIM

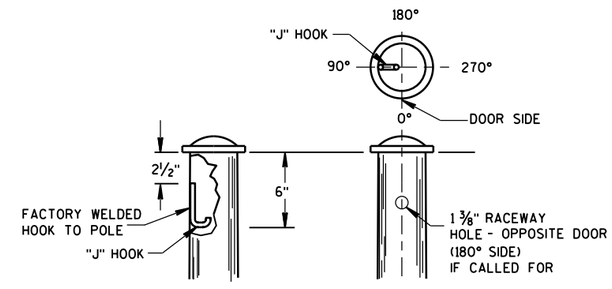
(2 TO A SET)



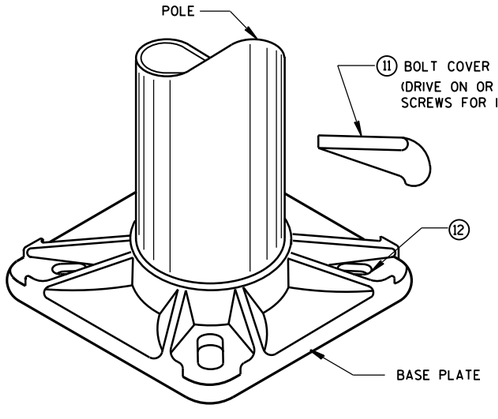
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



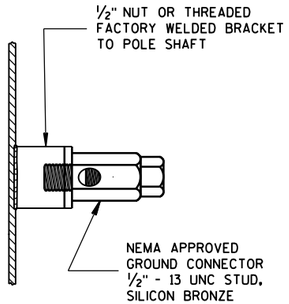
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

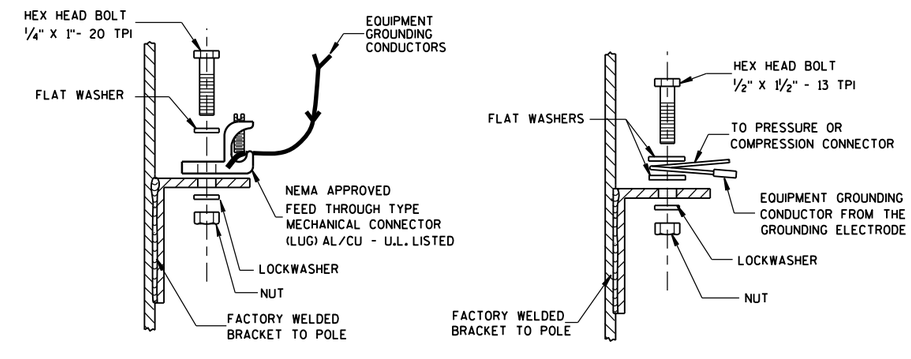


TYPICAL "J" HOOK LOCATION



BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

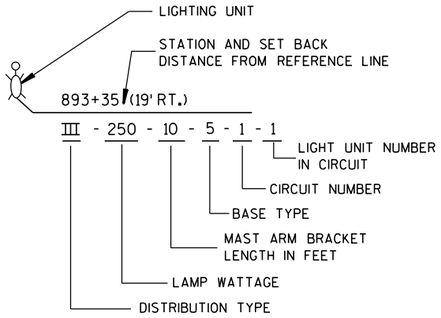
APPROVED
2/7/2013 DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

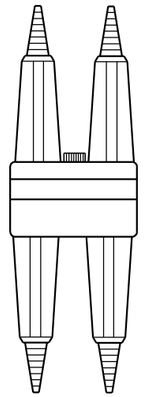
S.D.D. 9 E 1-12g

6

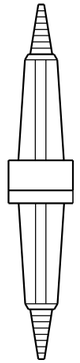
S.D.D. 9 E 1-12g



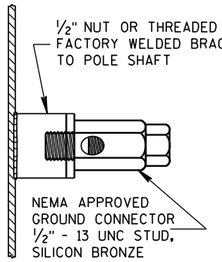
LIGHTING UNIT CODE
(TYPICAL)

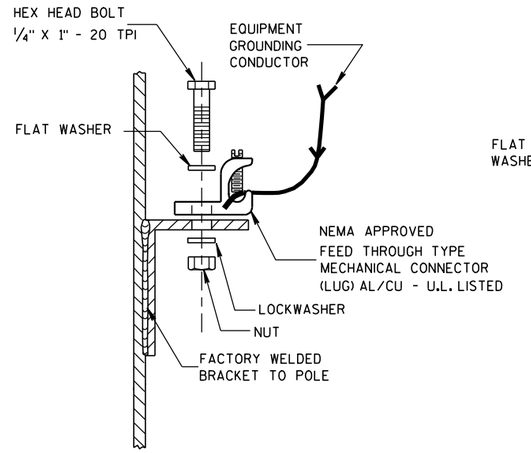


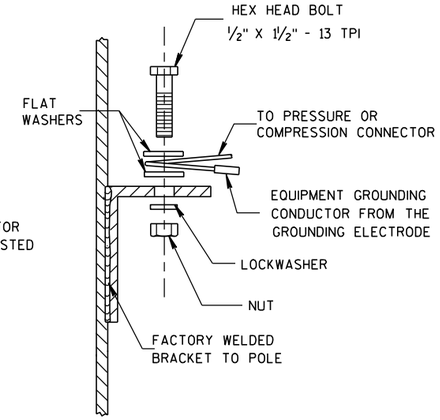
DETAIL "A"
BREAKAWAY
DOUBLE POLE WITH
WATERPROOF
INSULATING BOOT



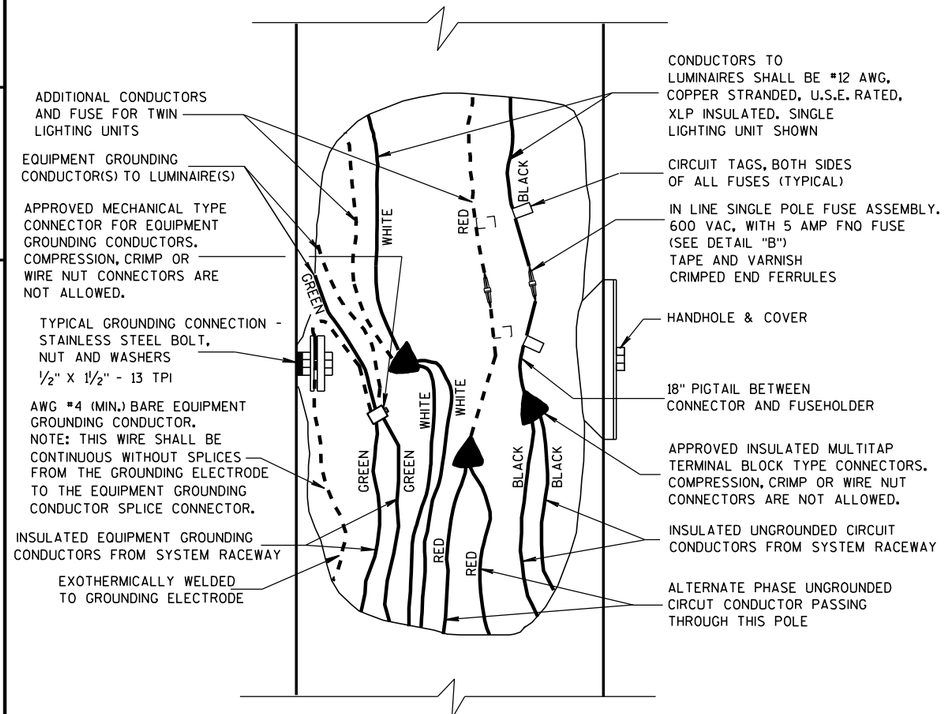
DETAIL "B"
BREAKAWAY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



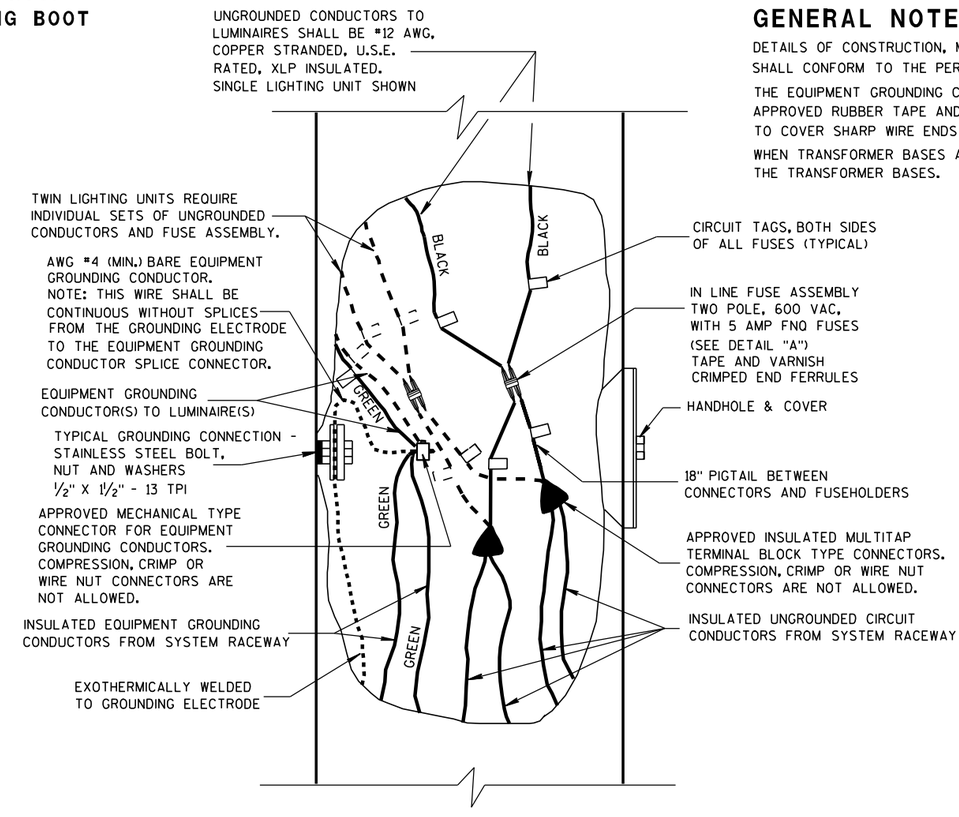




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/2/2011 — DATE

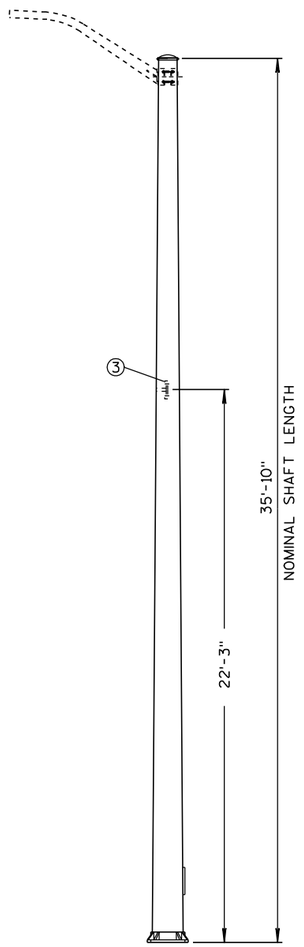
/S/ Thomas J. Gosnine — STATE ELECTRICAL ENGI

HWYS

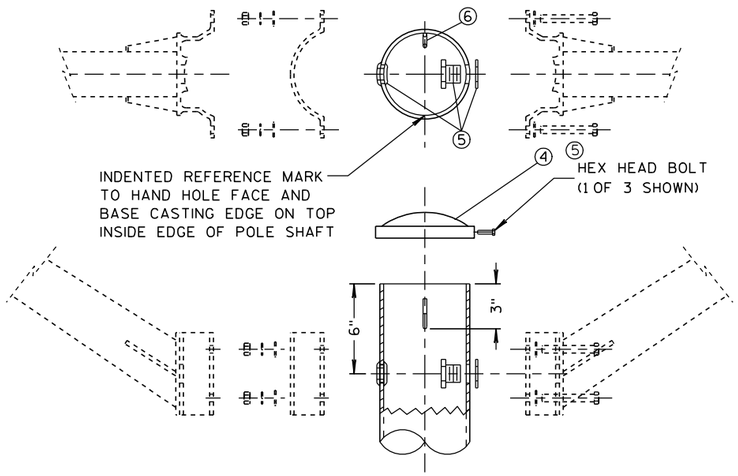
FHWA

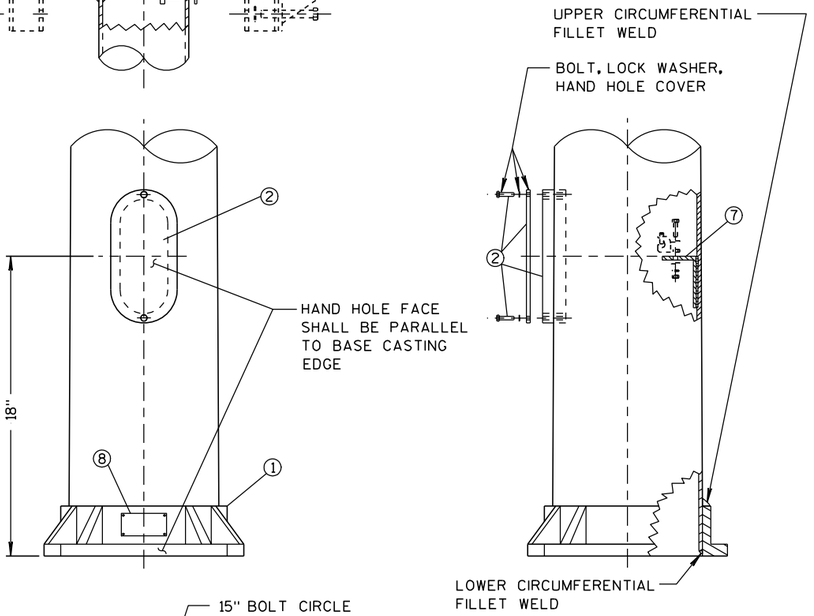
6
S.D.D. 9 E 3-4

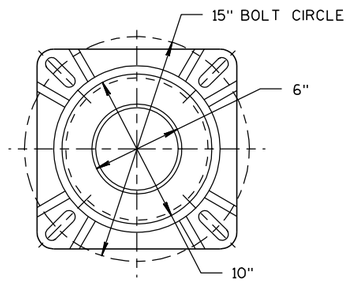
POLES COVERED BY THIS DRAWING	
TYPE 7	NATURAL FINISH, SLOTTED FOR 1" ANCHOR RODS
TYPE 7BR	DARK BROWN ANODIZED, SLOTTED FOR 1" ANCHOR RODS



POLE, TYPE 7







(TOP VIEW)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SLOTTED ANCHOR ROD HOLES FOR 1"-8 UNC ANCHOR RODS (4 EACH, 15" BOLT CIRCLE), SHALL BE PROVIDED IN BASE CASTING.

POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM. EXCEPT THAT BASE CASTINGS SHALL BE CONSTRUCTED OF 356-T6 ALUMINUM. THE SHAFT SHALL BE ROUND AND UNIFORMLY TAPERED FROM A 10" O.D. BUTT TO A 6" O.D. TOP.

HEAT TREATMENT OF WELDMENTS IN STRUCTURAL AREAS (e.g. BASE CASTING, HAND HOLE, BRACKET FOR GROUNDING LUG) REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE ARMS AND CLAMP ASSEMBLIES SHOWN FOR INFORMATION ONLY (PAID SEPARATELY).

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A.

① SHOE BASE.

② 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY SECURED BY TWO (2) 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

HANDHOLE SHALL BE 90 DEGREES FROM LUMINAIRE ARMS OF TWIN LUMINAIRE POLES; 180 DEGREES FROM LUMINAIRE ARM OF SINGLE LUMINAIRE POLES; 0 DEGREES FROM LUMINAIRE ARM FOR STRUCTURE MOUNTED POLES.

③ INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

④ FURNISH AND INSTALL CAST OR METALLIC (ALUMINUM ALLOY) POLE CAP. FASTEN CAP WITH THREE 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

⑤ 1 3/8" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET), PER EACH REQUIRED LUMINAIRE ARM.

⑥ FACTORY-WELDED "J" HOOK FOR POLE WIRE STRAIN RELIEF.

⑦ FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE. (LUG AND HARDWARE PAID UNDER SEPARATE ITEMS; SHOWN FOR INFORMATION ONLY). PROVIDE HOLE IN BRACKET FOR 1/4" X 3/4" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

⑧ MANUFACTURER'S PLATE SHOWING WisDOT POLE TYPE, MANUFACTURER, AND DATE.

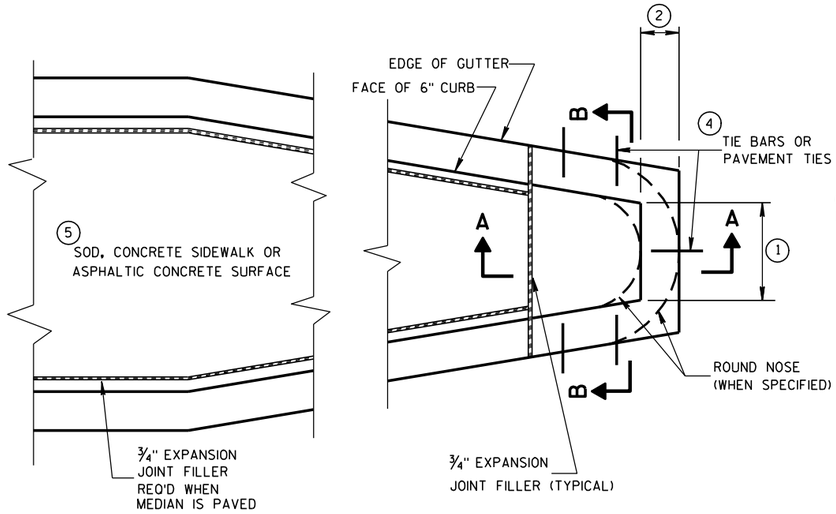
POLE TYPE (NOM. SHAFT LENGTH)	TYPICAL APPLICATION	ARM & LUMINAIRE LOADS (MAX.)	ADDITIONAL (MAX.) LOADS
TYPE 7 & 7BR (35'-10")	ARTERIALS	TWIN ARMS UP TO 10 FT. (SINGLE MEMBER)	UP TO 20 SQ. FT. ON TRAFFIC SIGNS, MOUNTED AS HIGH AS 15 FT. TO TOP OF SIGN, PLUS 1-3 SECTION, 1-5 SECTION, AND 2-PED. TRAFFIC HEAD
	FREEWAY	SINGLE ARM, UP TO 20 FT. TRUSS TYPE	UP TO 20 SQ. FT. OF TRAFFIC SIGNS, MOUNTED AS HIGH AS 15 FT. TO TOP OF SIGN

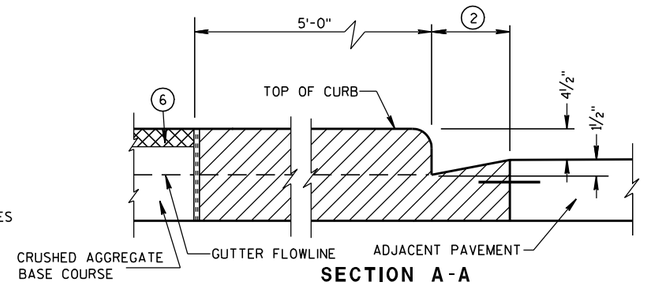
POLES, TYPES 7 & 7BR
ALUMINUM - 35'-10" SHAFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

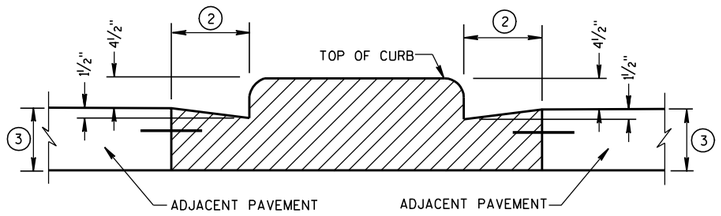
APPROVED
10/25/2010 DATE
/S/ John Corbin
STATE ELECTRICAL ENGI
179
HWYS
FHWA

6
S.D.D. 10 A 17-3a





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

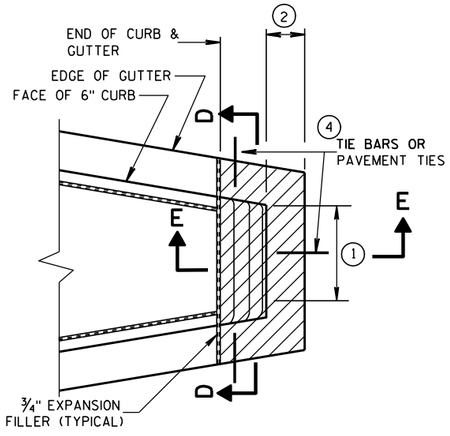
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

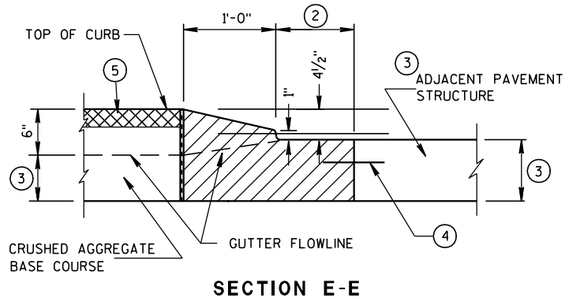
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

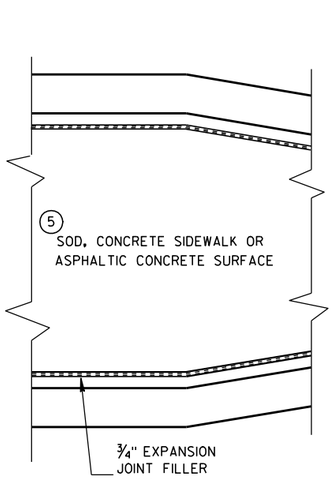
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

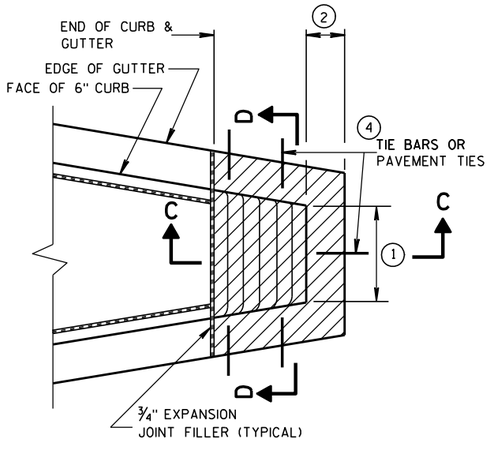




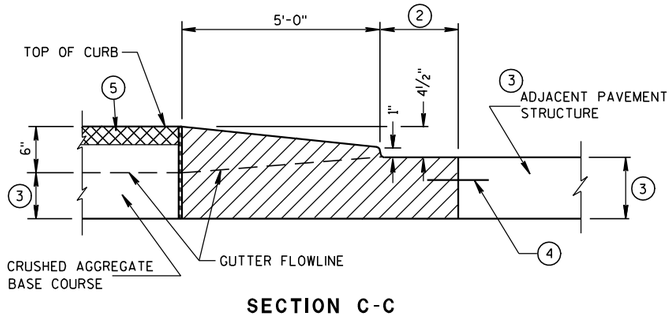
SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

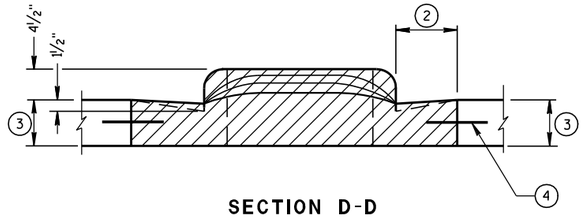




CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION C-C



SECTION D-D

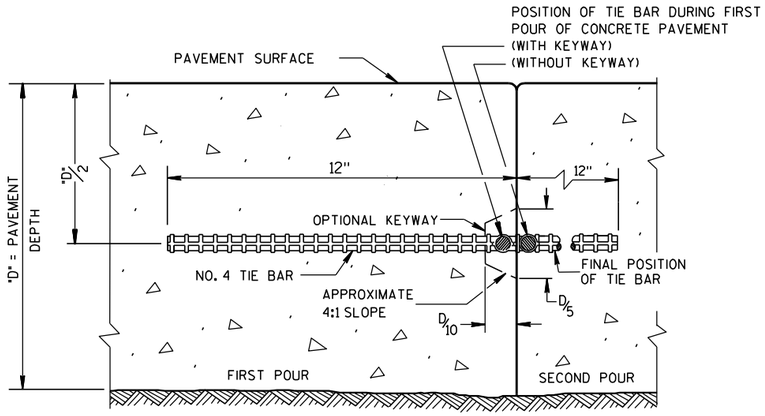
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
FHWA	180 NT

6

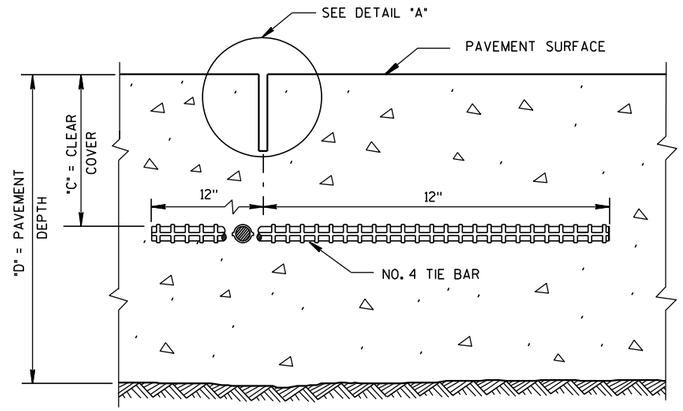
S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

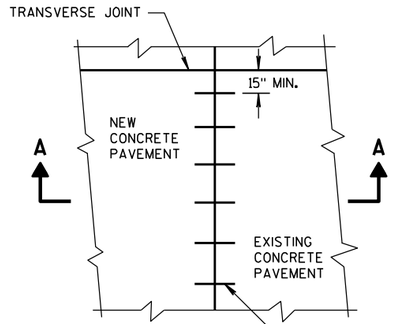
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

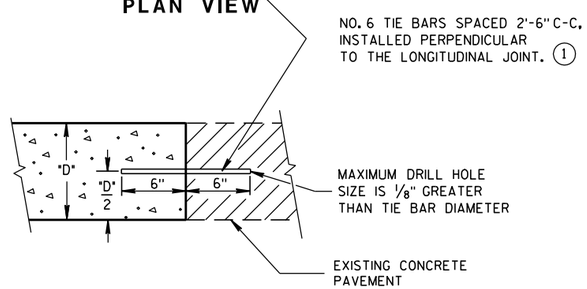
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

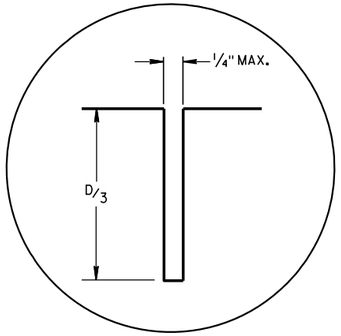
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

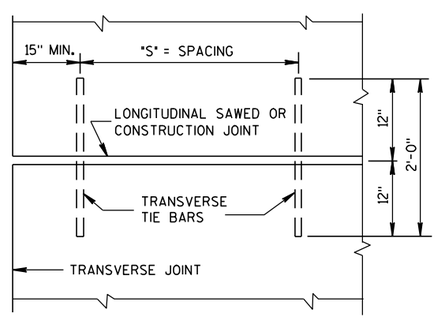


SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 1/2"	3" ± 1/2"	48"	42"
7, 7 1/2"	3 1/4" ± 1"	45"	36"
8, 8 1/2"	3 3/4" ± 1"	39"	30"
9, 9 1/2"	4 1/4" ± 1"	33"	27"
10, 10 1/2"	4 3/4" ± 1"	30"	24"
11, 11 1/2"	5 1/4" ± 1"	27"	21"
12"	5 3/4" ± 1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10-5-2010 DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DI[181]INEER

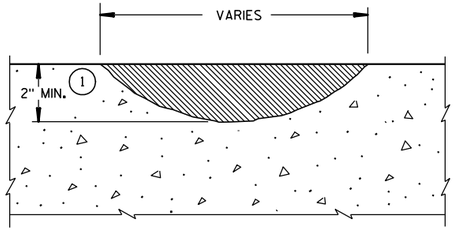
FHWA

6

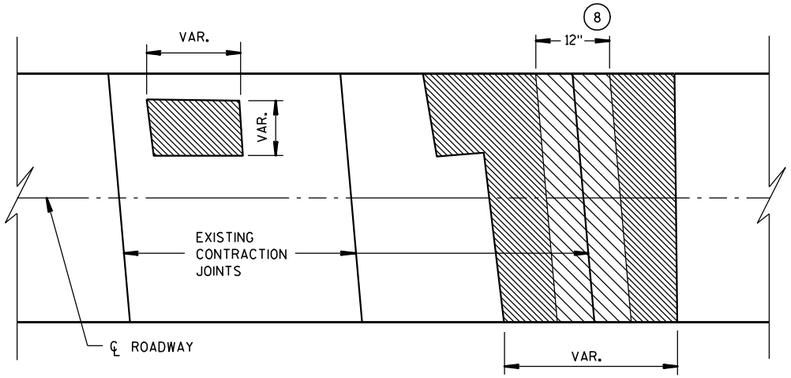
S.D.D. 13 C 1-15

6

S.D.D. 13 C 1-15

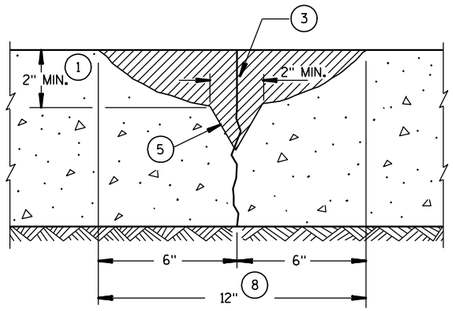


PROFILE VIEW

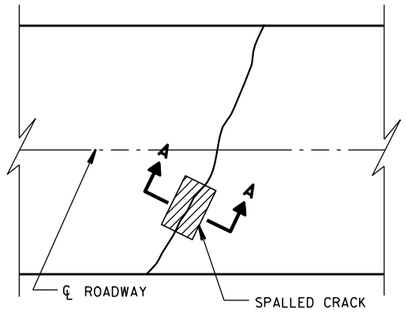


PLAN VIEW

SURFACE REPAIR



SECTION A-A

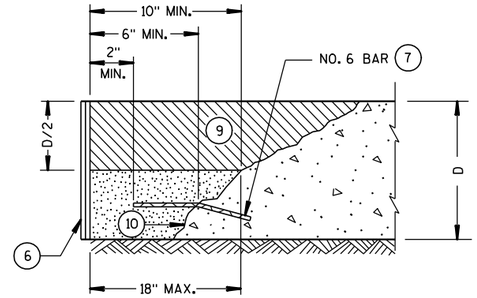


PLAN VIEW

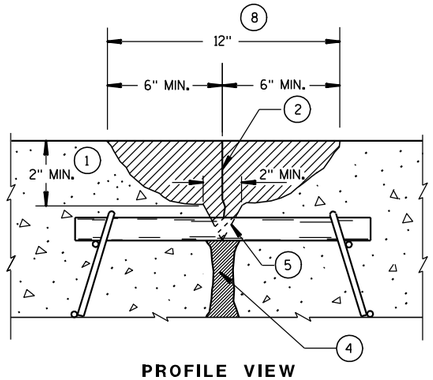
CRACK REPAIR

GENERAL NOTES

1. REMOVE ALL CONCRETE, TO LIMITS SHOWN, TO A MAXIMUM OF ½ THE PAVEMENT DEPTH OR TOP OF DOWELS.
2. IF REPAIR IS DEEPER THAN ANTICIPATED SAWCUT, COMPRESSION RELIEF MATERIAL MUST BE USED. THE THICKNESS OF COMPRESSION RELIEF MATERIAL MUST BE EQUAL TO OR GREATER THAN THE WIDTH OF THE JOINT OR CRACK (1/4"). THIS MATERIAL SHOULD EXTEND FULL DEPTH OF THE REPAIR.
3. COMPRESSION RELIEF MATERIAL MUST BE USED. THE THICKNESS OF COMPRESSION RELIEF MATERIAL MUST BE EQUAL TO OR GREATER THAN THE WIDTH OF THE JOINT OR CRACK (1/4"). THIS MATERIAL SHOULD EXTEND FULL DEPTH OF THE REPAIR.
4. CLEAN, DRY SAND WHEN NECESSARY.
5. REMOVE UNSOUND MATERIAL BY CHIPPING AT 1:1 SLOPE.
6. ¼" MINIMUM PREFORMED JOINT FILLER IF ADJACENT TO CONCRETE. EDGING REQUIRED. FULLY FORMED EDGE IF ADJACENT TO SHOULDER.
7. PAVEMENT TIES AS SHOWN. ALL EMBEDMENTS 6" MINIMUM AND INSTALLED WITH GROUT.
8. OVER 12" (NOMINAL WIDTH) WILL BE PAID AS SURFACE REPAIR.
9. PAID AS JOINT OR CRACK REPAIR.
10. FULL-DEPTH ADJUSTMENT SHALL BE CHIPPED TO BOTTOM OF PCC PAVEMENT AT 1:1 SLOPE.
11. BEYOND 18" WILL BE PAID AS SURFACE REPAIR.

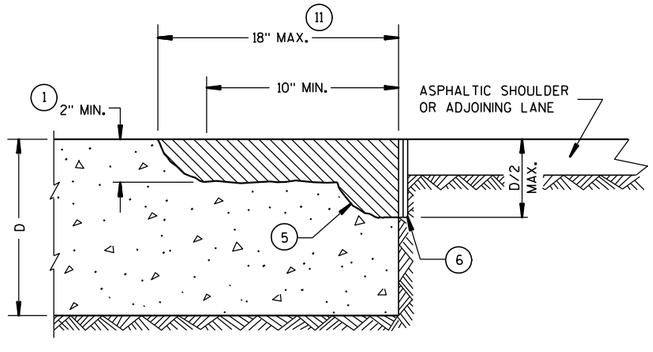


PROFILE VIEW

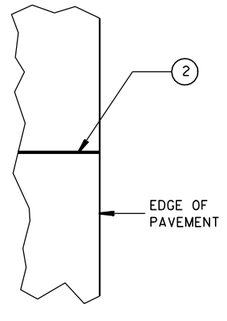


PROFILE VIEW

JOINT REPAIR

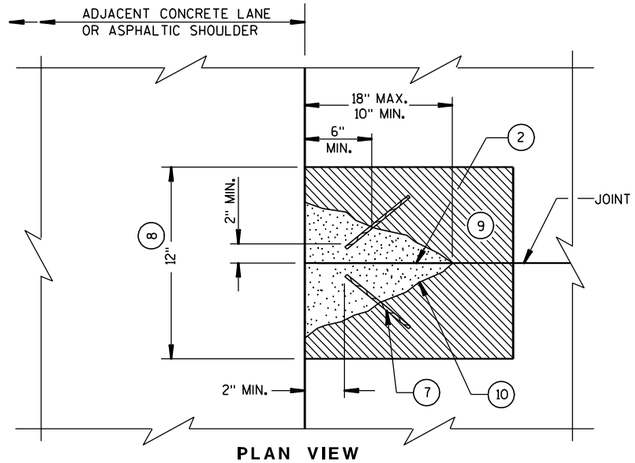


PROFILE VIEW



PLAN VIEW

EDGE REPAIR



PLAN VIEW

FULL DEPTH REPAIR ADJUSTMENT

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/21/03 DATE
/S/ Bill Ducker PAVEMENT ENGR
FHWA

6

S.D.D. 13 C 8-2

6

S.D.D. 13 C 8-2

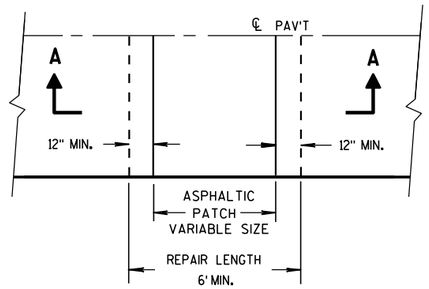
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. ADDITIONAL SAW CUTS ARE NOT PAID FOR BY THE DEPARTMENT.

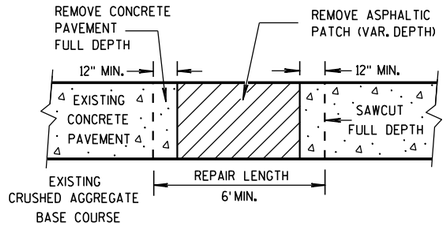
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

(1) DOWEL BARS MIGHT NOT EXIST.

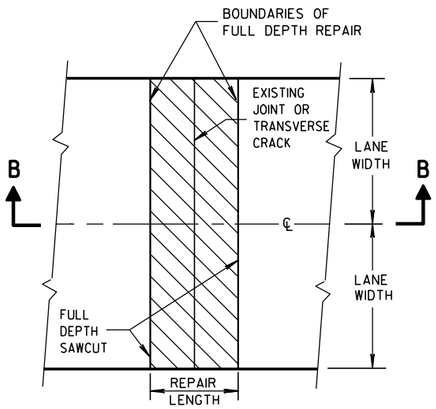


PLAN VIEW

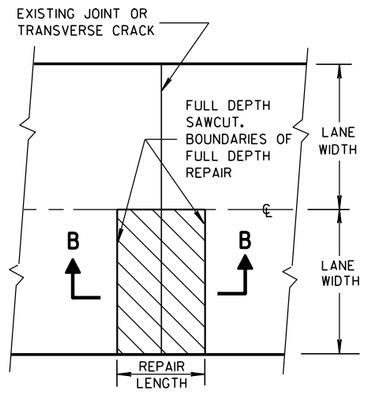


SECTION A-A

HMA PATCH REMOVAL



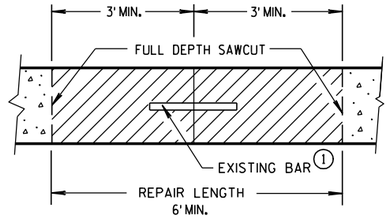
PLAN VIEW
(DOUBLE LANE REPAIR)



PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL

(SEE NOTE)



SECTION B-B

CONCRETE REMOVAL

6

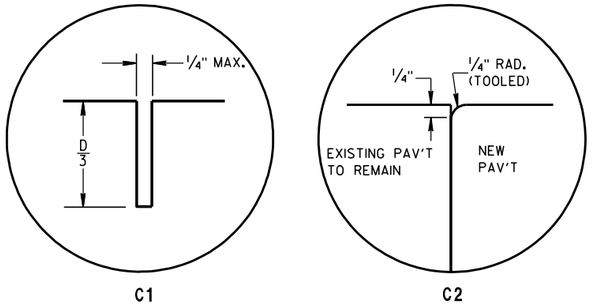
6

S.D.D. 13 C 9-9a

S.D.D. 13 C 9-9a

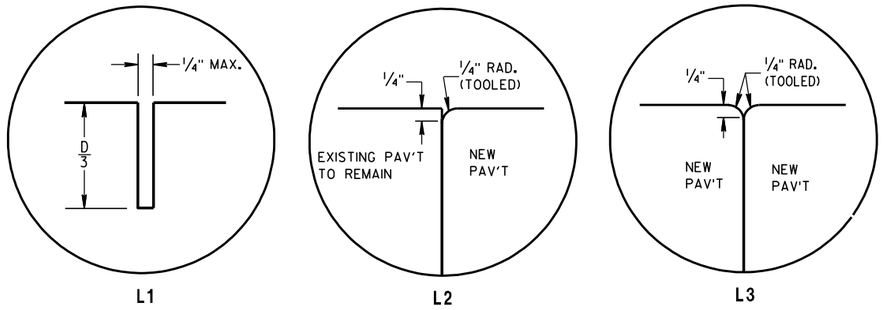
CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



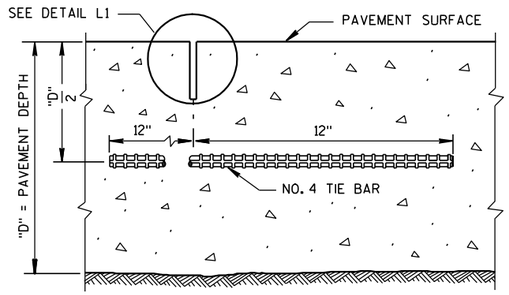
C1 C2

TRANSVERSE JOINTS



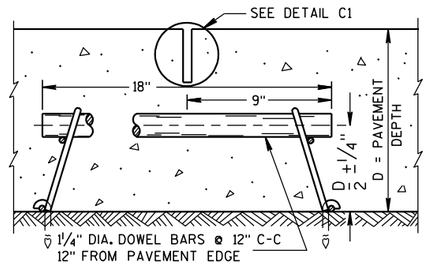
L1 L2 L3

LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

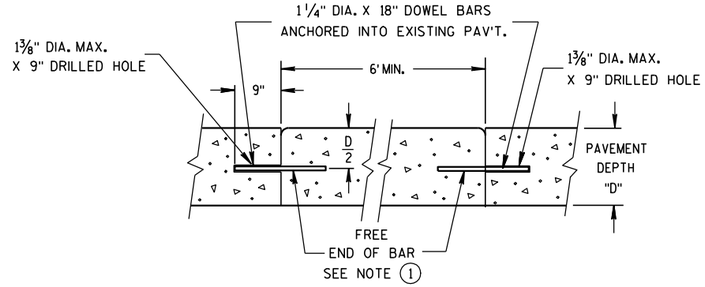
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

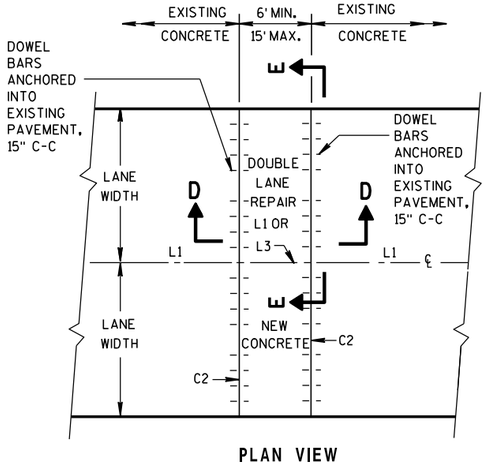
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 24 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

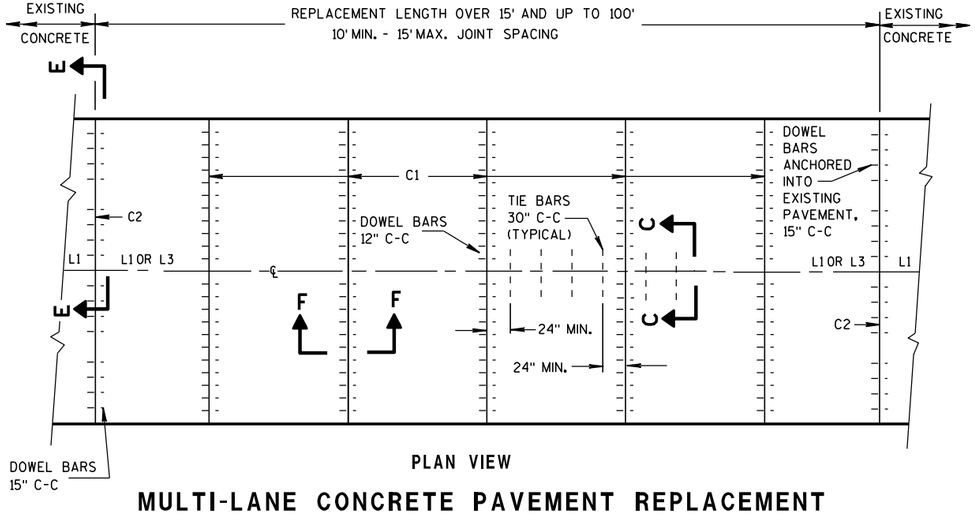


SECTION D-D



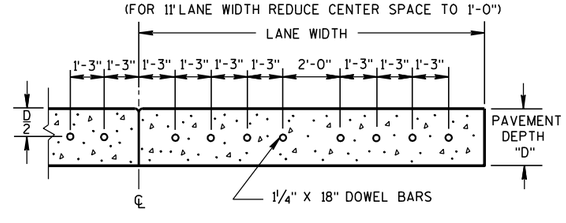
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT



SECTION E-E

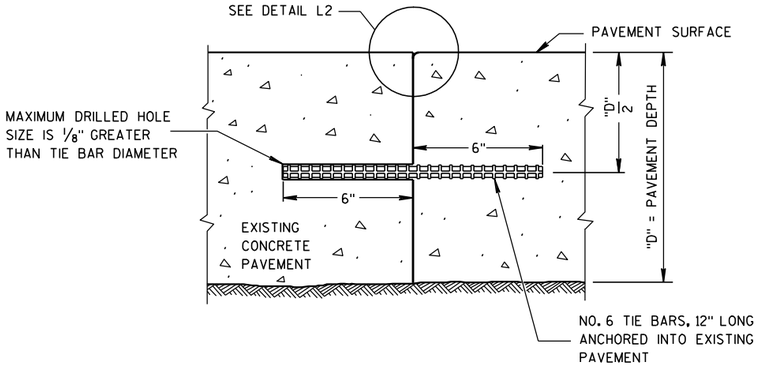
SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 13 C 9-9b

6



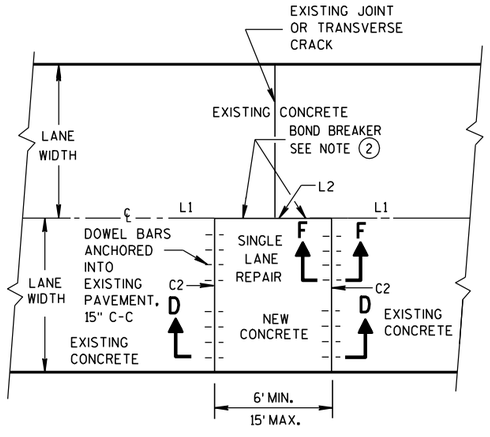
SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

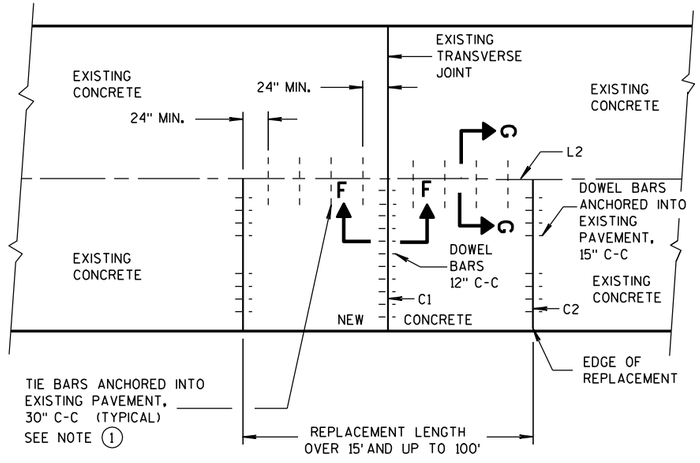
(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11-1-2011 DATE — /S/ Deb Bischoff PAVEMENT POLICY & DESIGNER

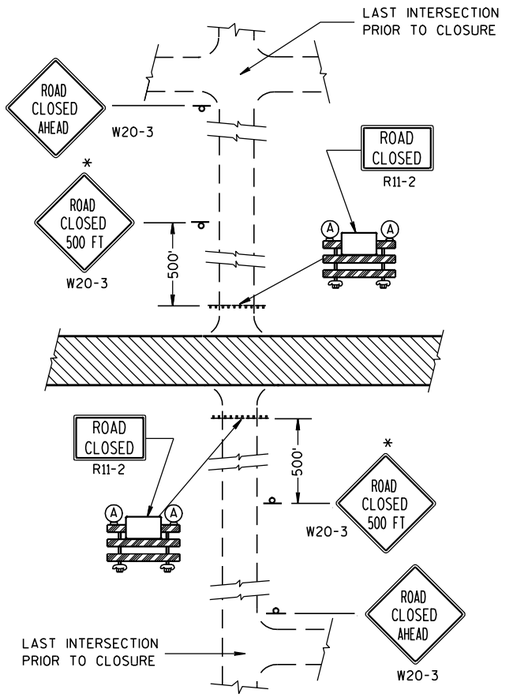
FHWA

6

S.D.D. 13 C 9-9c

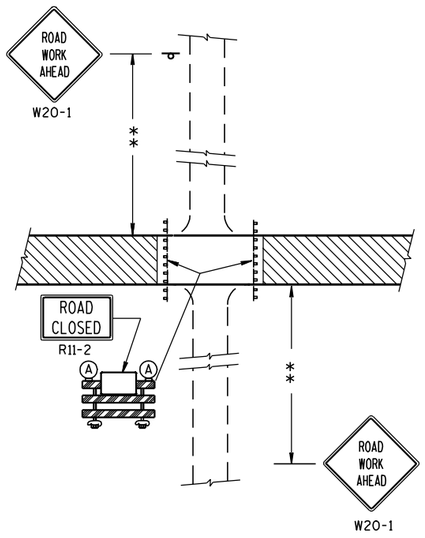
6

S.D.D. 13 C 9-9c



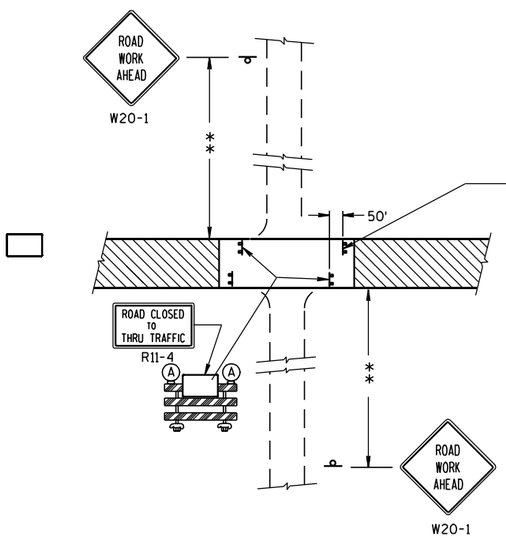
DETAIL 1

(NO ACCESS TO PROJECT)



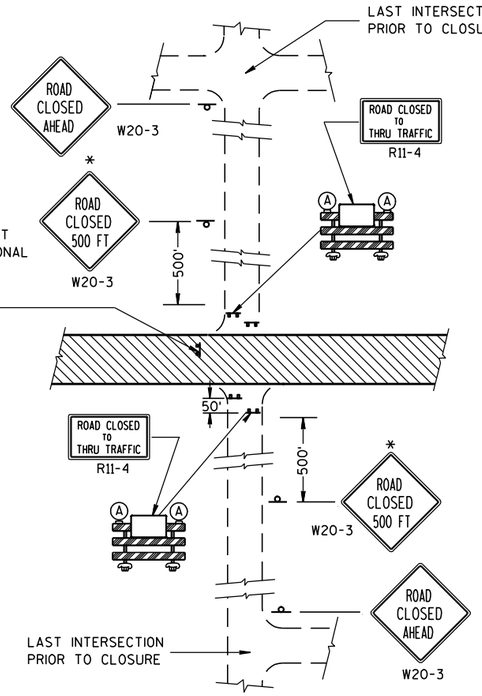
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

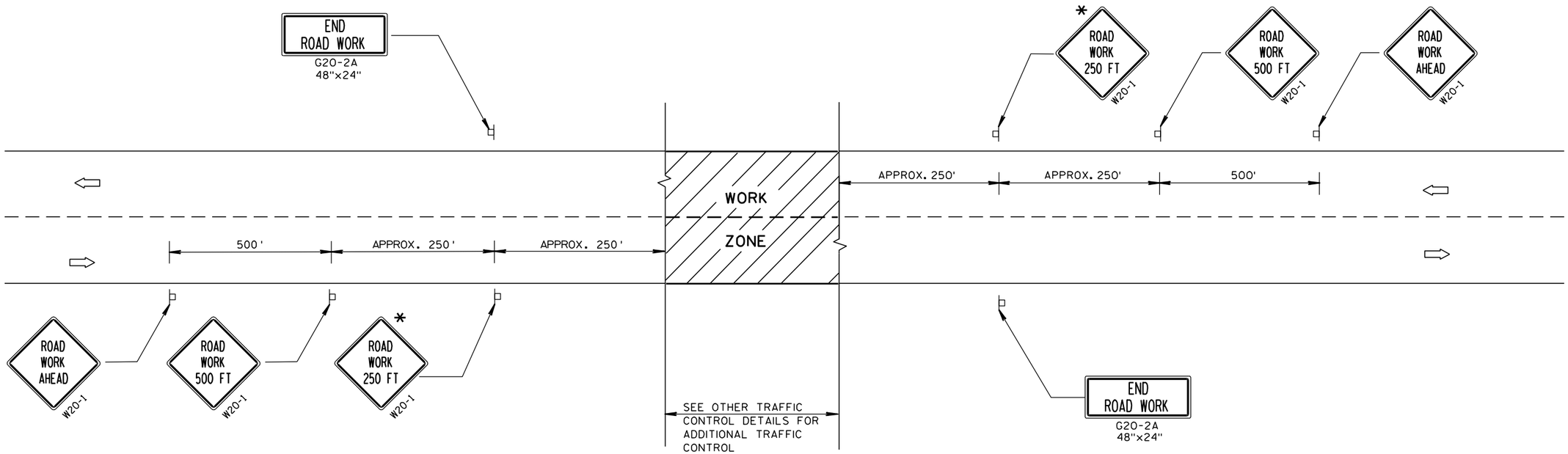
9-16-03 DATE

/S/ Thomas N. N[illegible] CHIEF SIGNS AND MAR[illegible] INEER

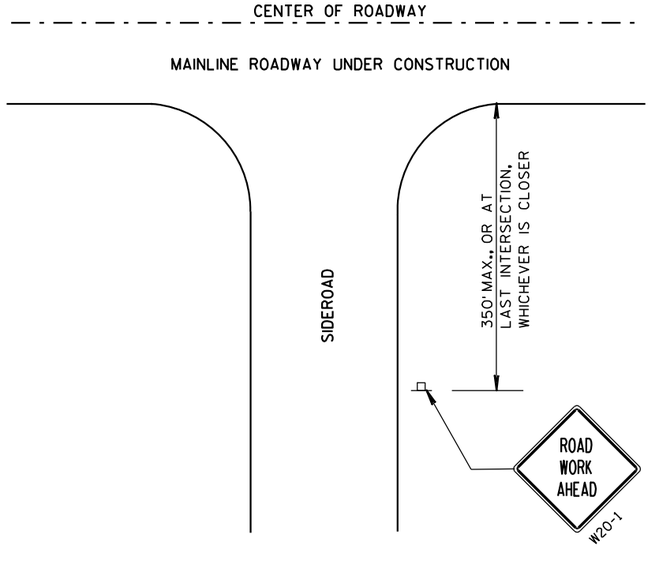
FHWA

6

S.D.D. 15 C 3-1



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00
DATE

/S/ Chester J. [illegible]
CHIEF SIGNS AND MARKING ENGINEER

FHWA

6

S.D.D. 15 C 5-1

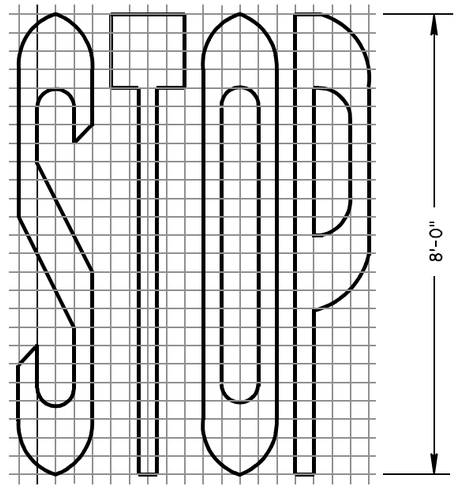
6

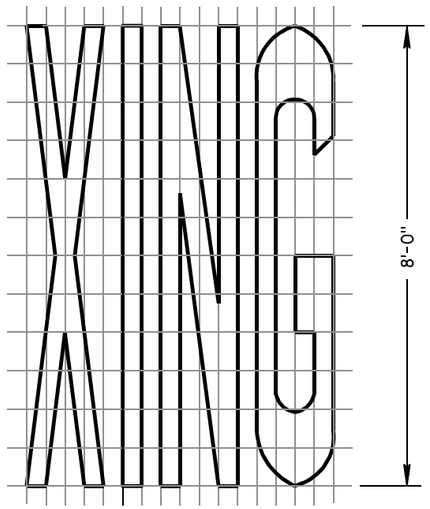
S.D.D. 15 C 5-1

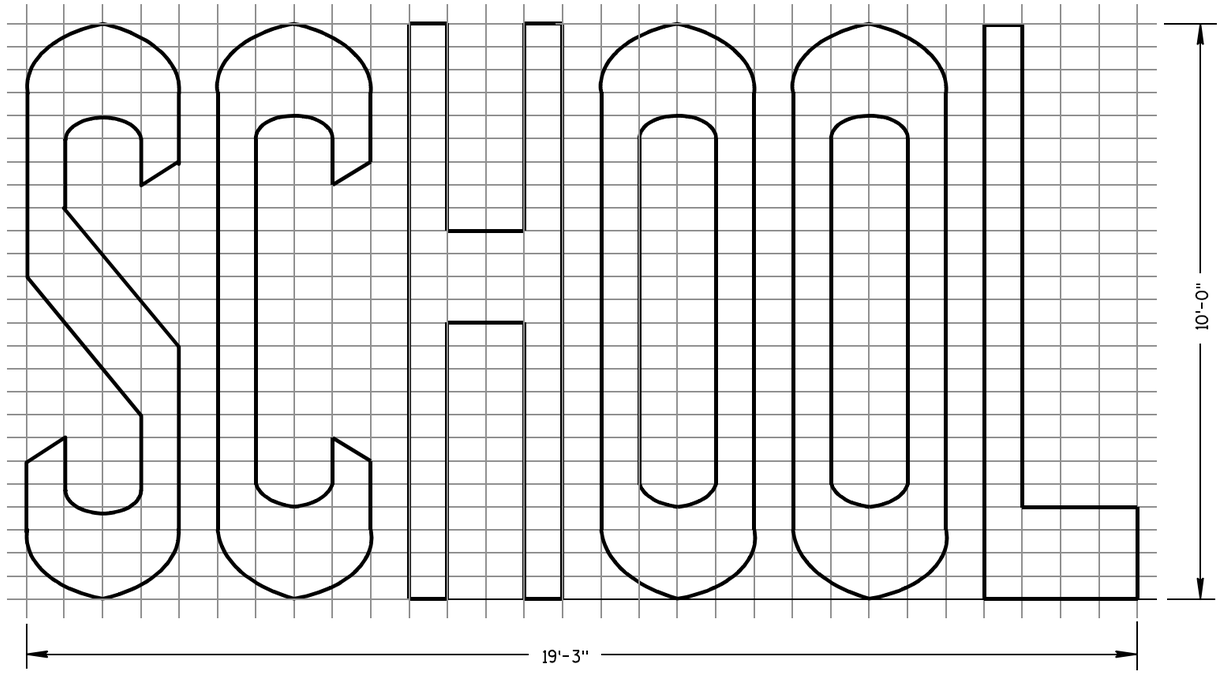
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

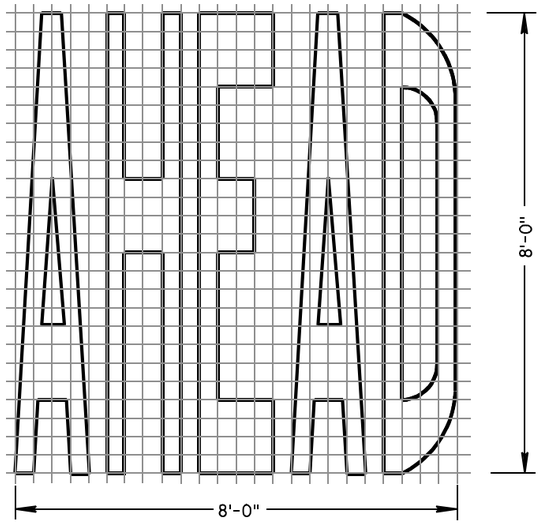
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

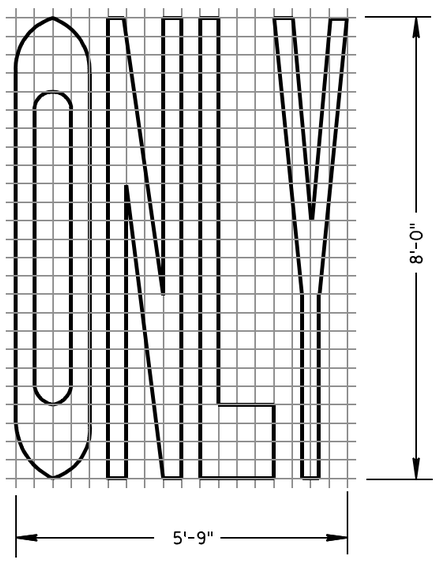


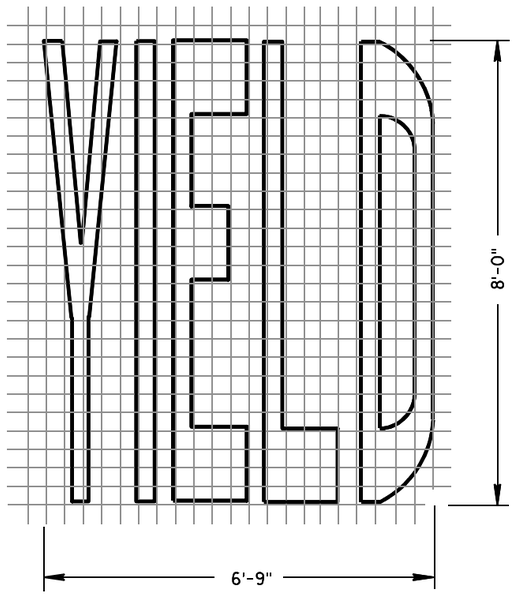


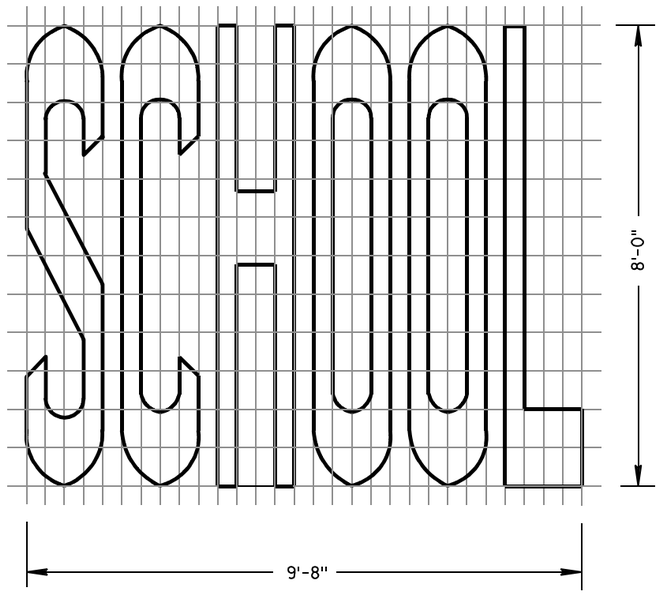


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 7-12b

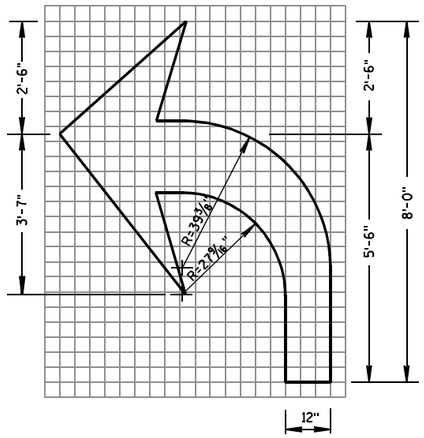
6

S.D.D. 15 C 7-12b

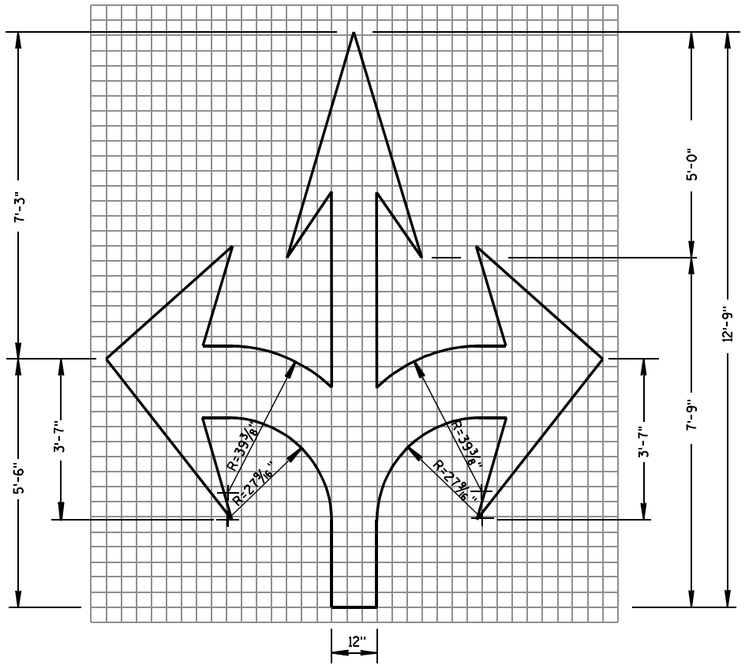
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

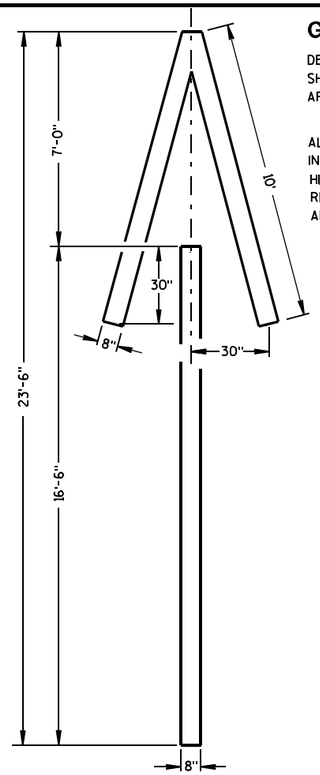
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



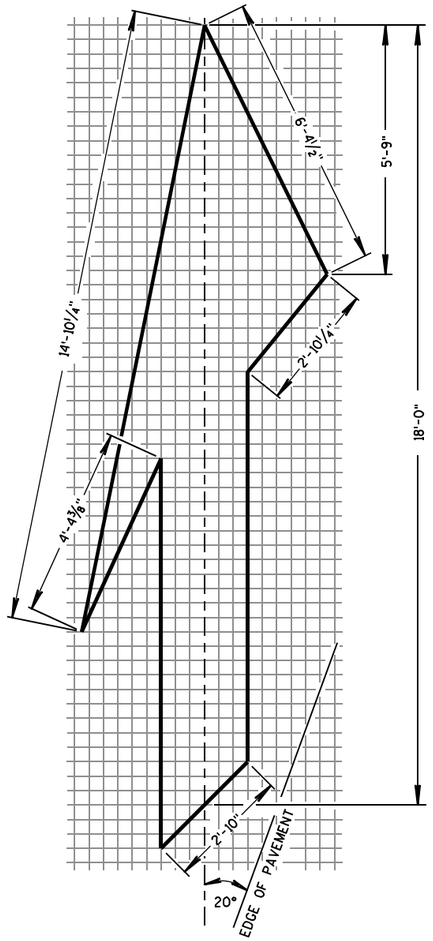
TYPE 2



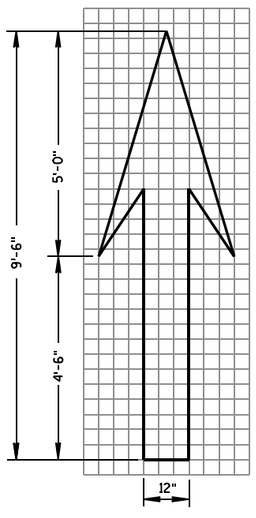
TYPE 6



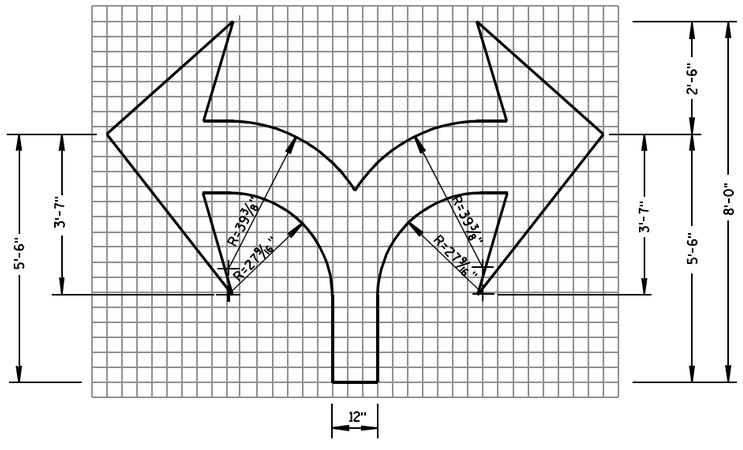
TYPE 4



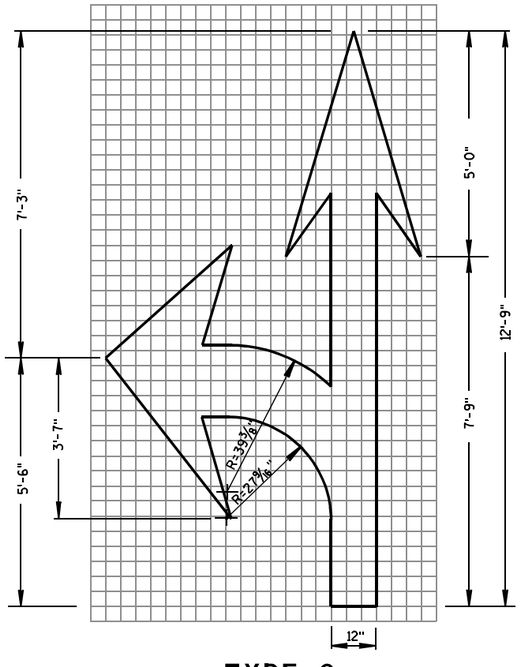
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

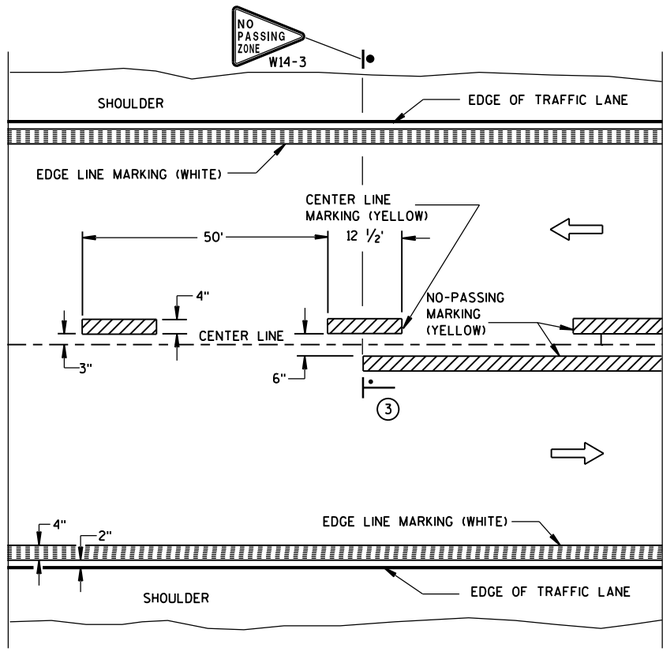
7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

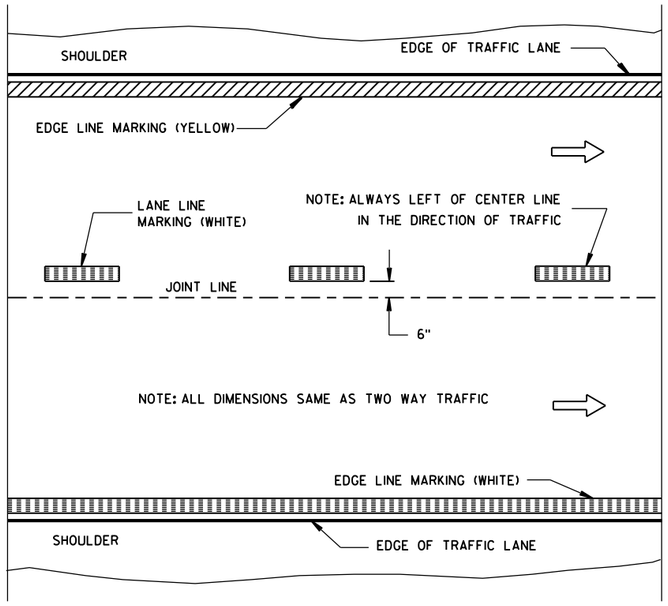
FHWA

6

S.D.D. 15 C 7-12c

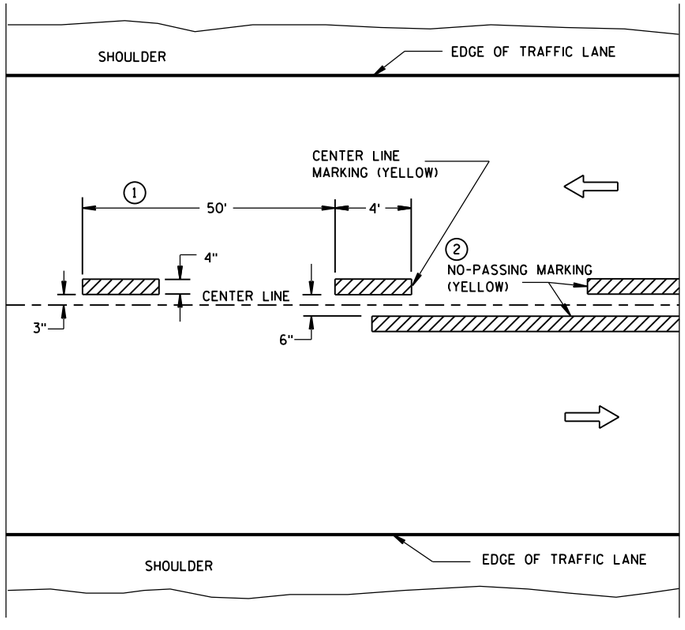


TWO WAY TRAFFIC

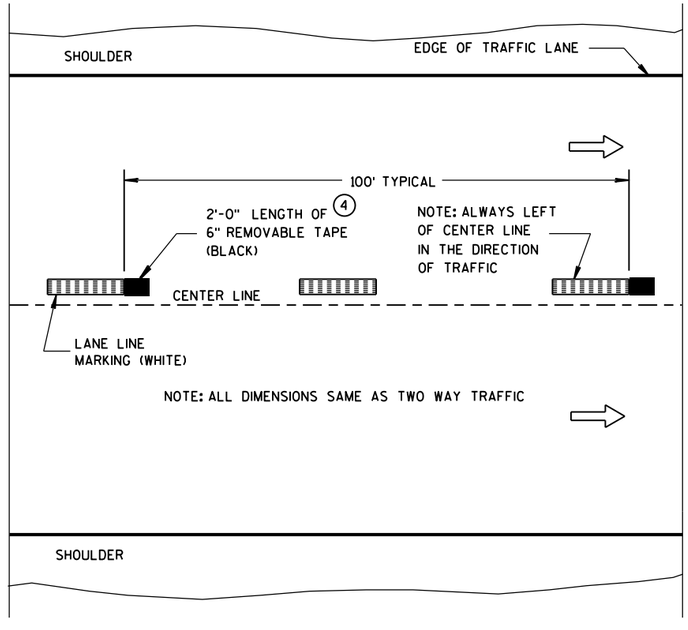


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

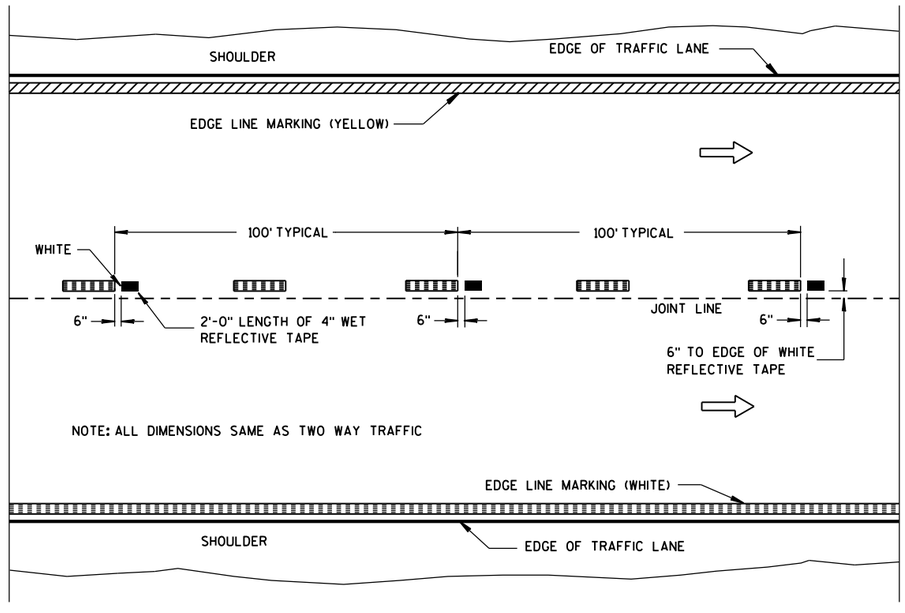
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

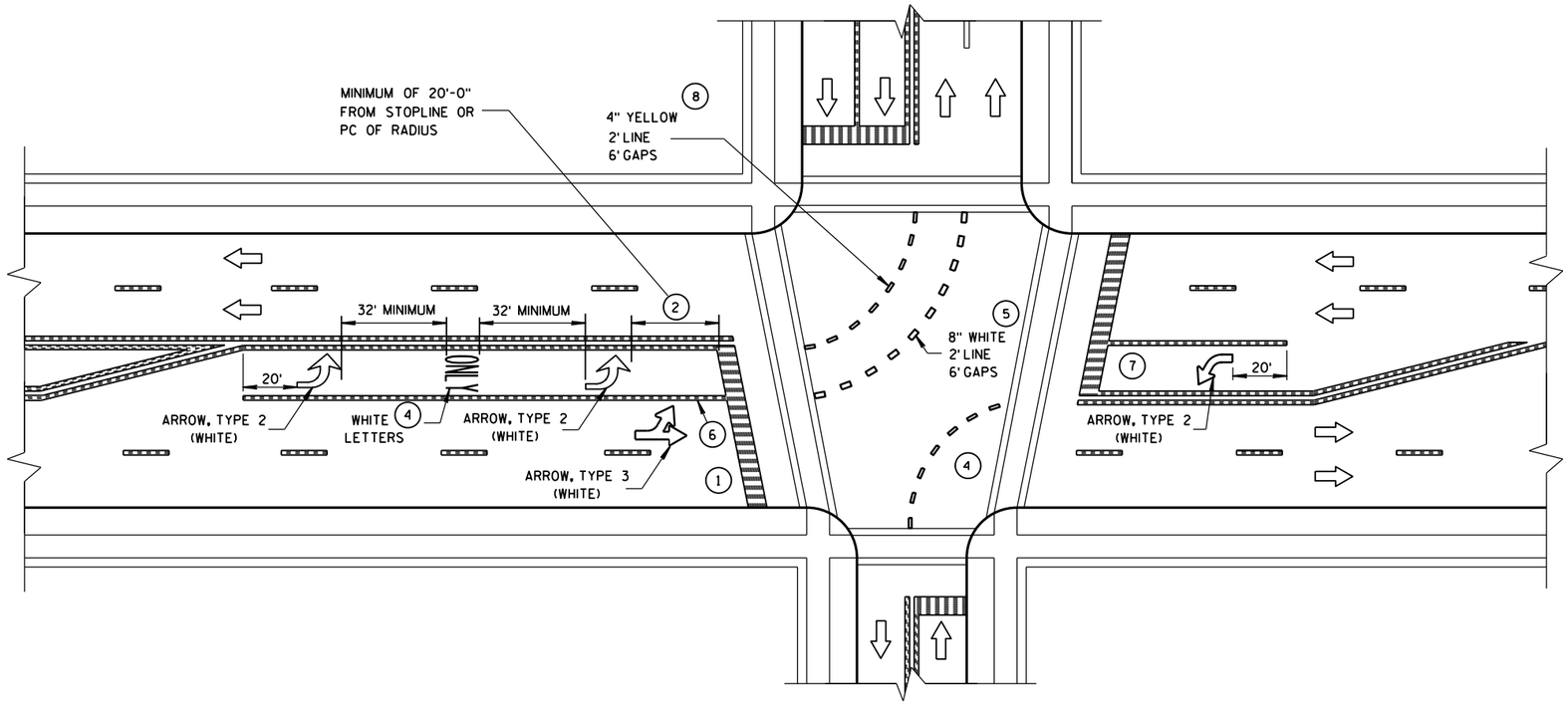
APPROVED
10-1-2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 8-15a

6

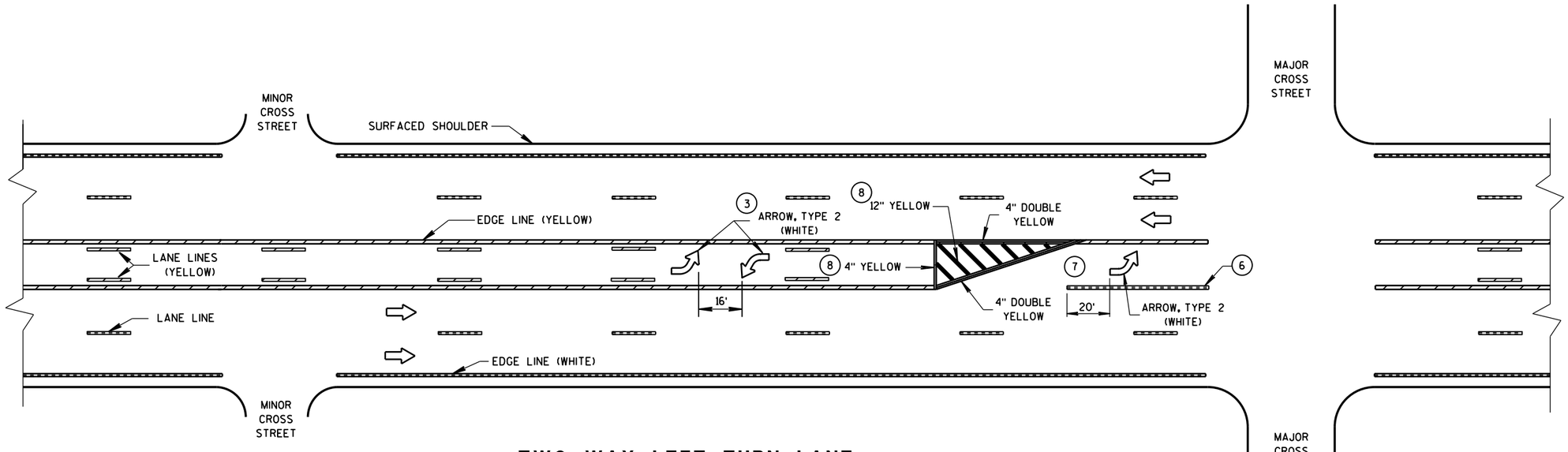
S.D.D. 15 C 8-15a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



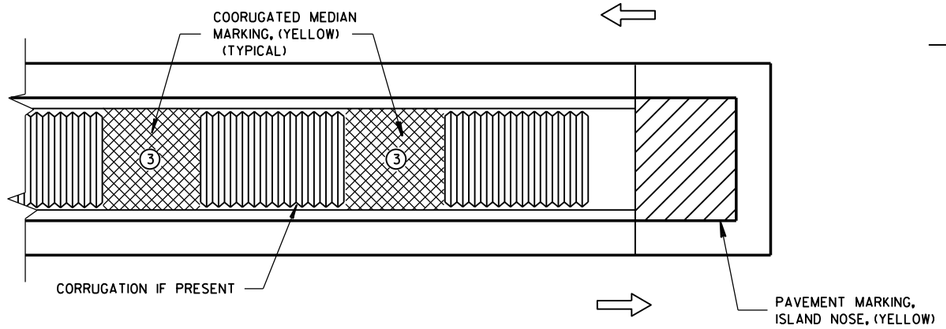
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

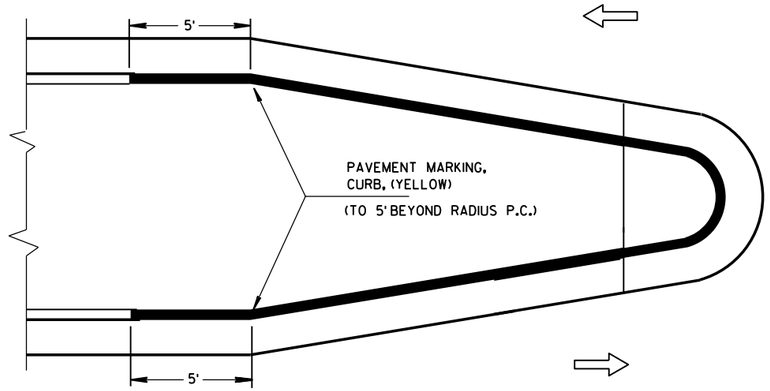
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

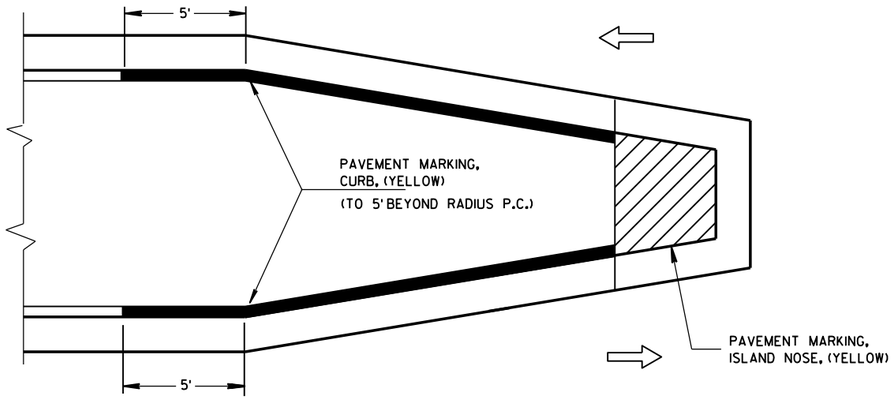
S.D.D. 15 C 8-15e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

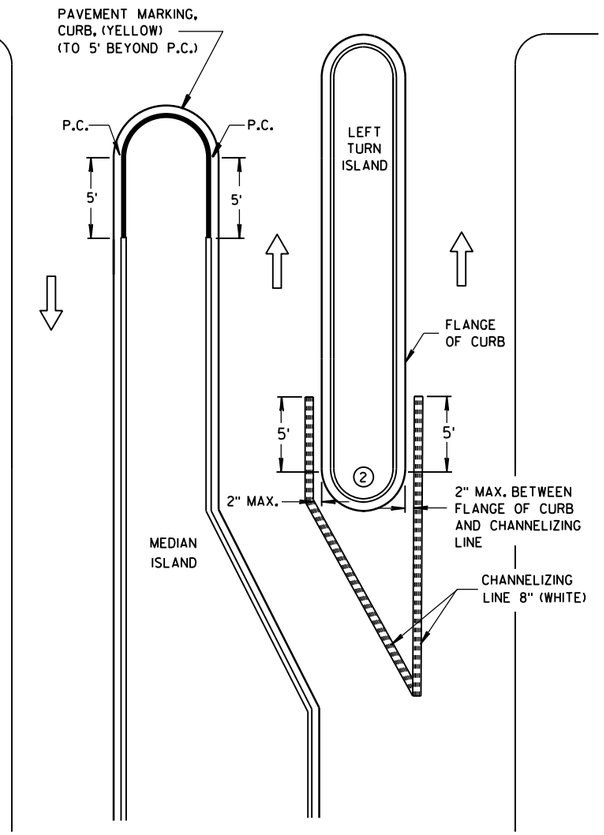


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

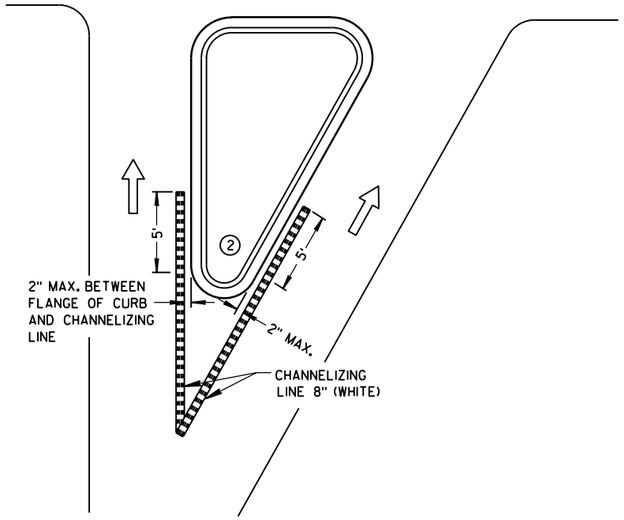
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



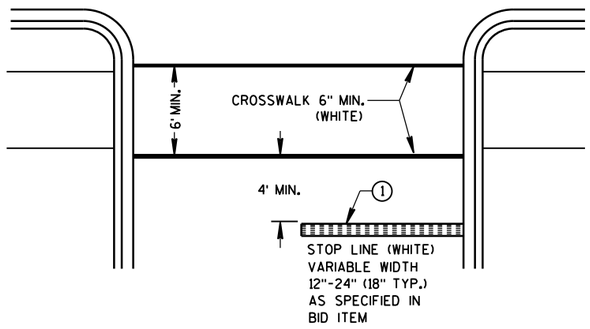
LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
3. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND



STOP LINE AND CROSSWALK

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS, STOP LINE &
CROSS WALK)

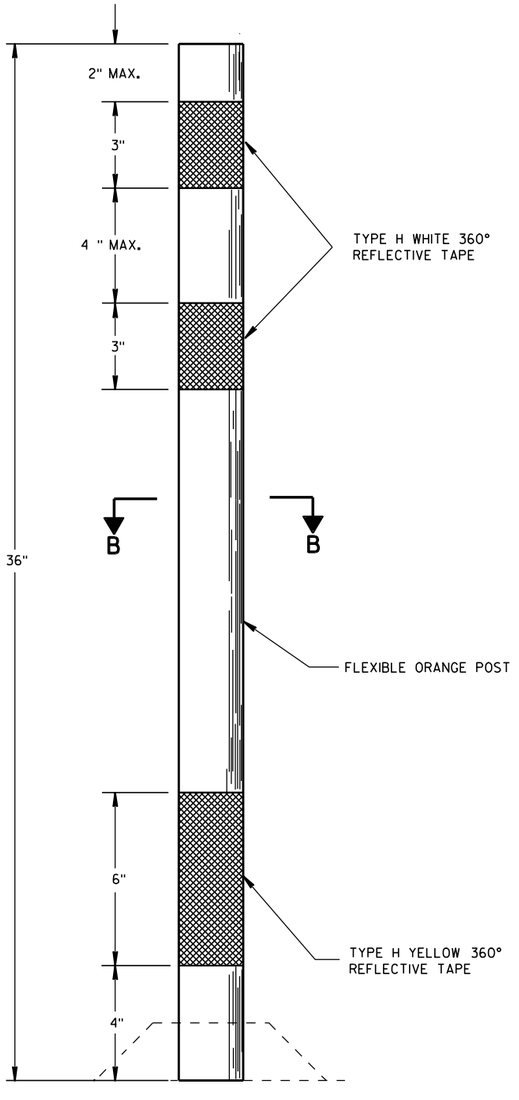
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

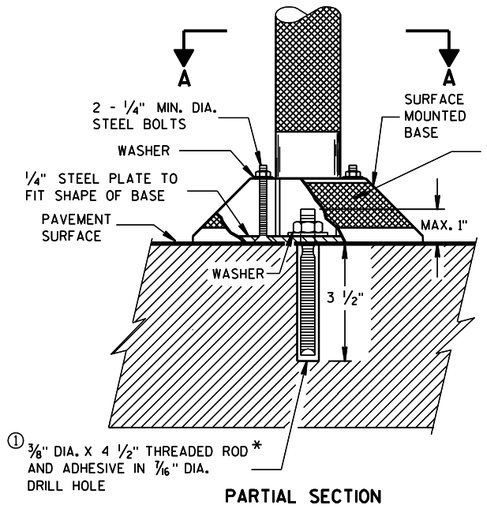
S.D.D. 15 C 8-15f

6

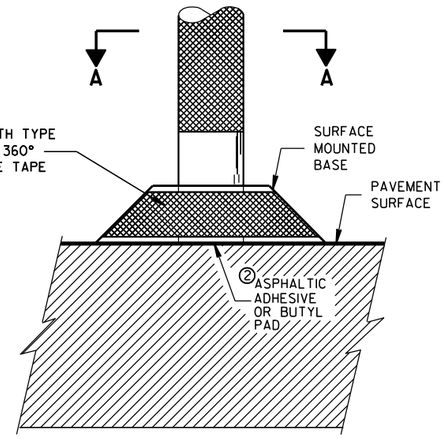
S.D.D. 15 C 8-15f



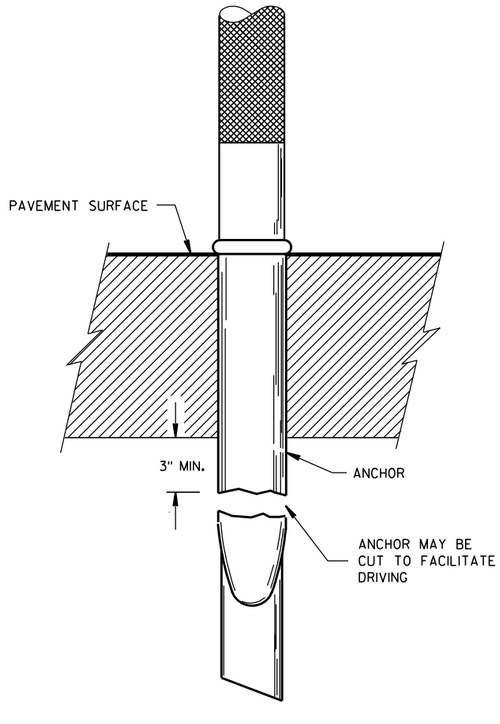
FLEXIBLE TUBULAR MARKER POST

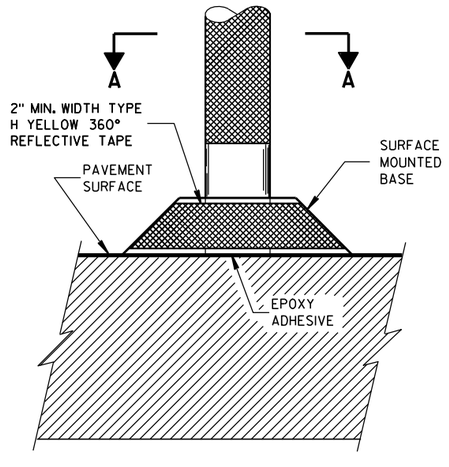


PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT





POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

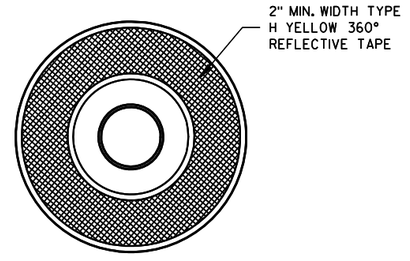
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

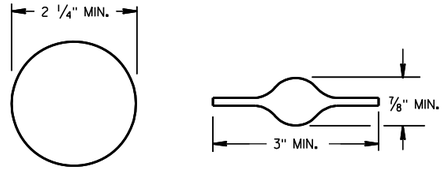
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



SECTION A-A

SURFACE MOUNTED BASE



SECTION B-B

ALTERNATIVE SHAPES

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/17/94 DATE

/S/ Chester J. [illegible] DIRECTOR, OFFICE O

FHWA

6

S.D.D. 15 C 11-5

6

S.D.D. 15 C 11-5

TWO-LANE ROADWAY

SYMBOLS

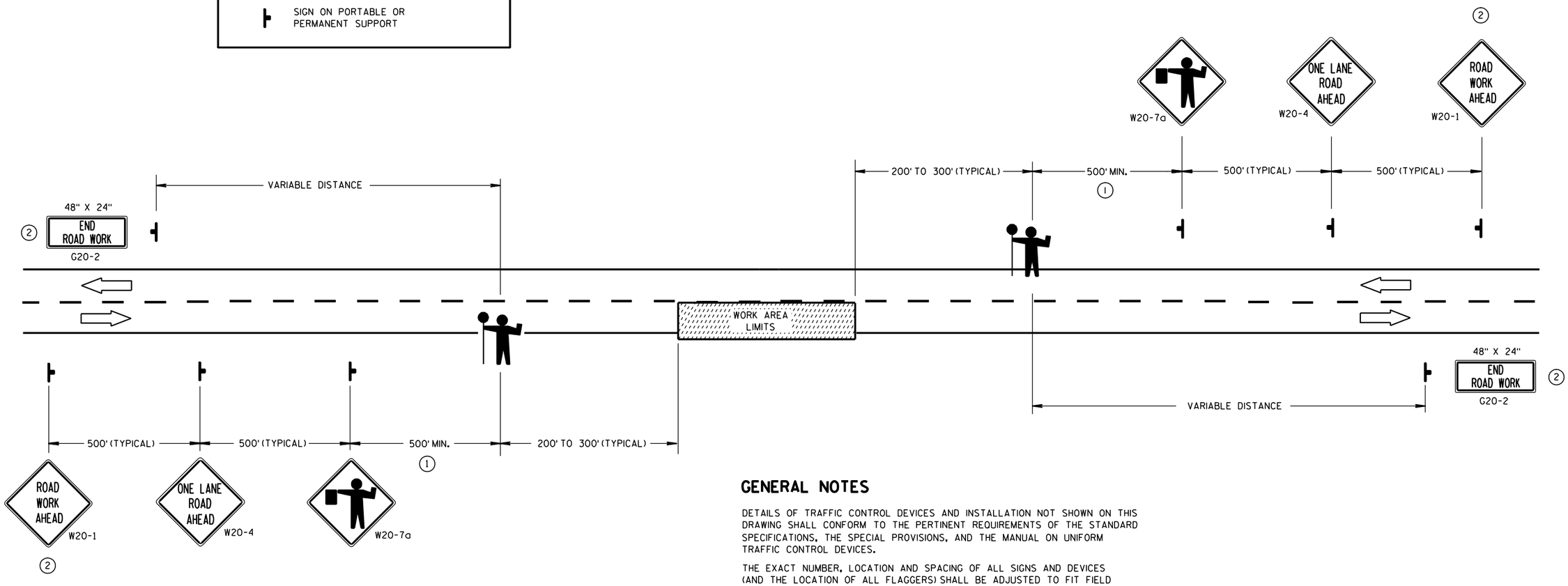
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/5/06 — DATE

/S/ Thomas N. Nathaam — STATE TRAFFIC ENGINEER

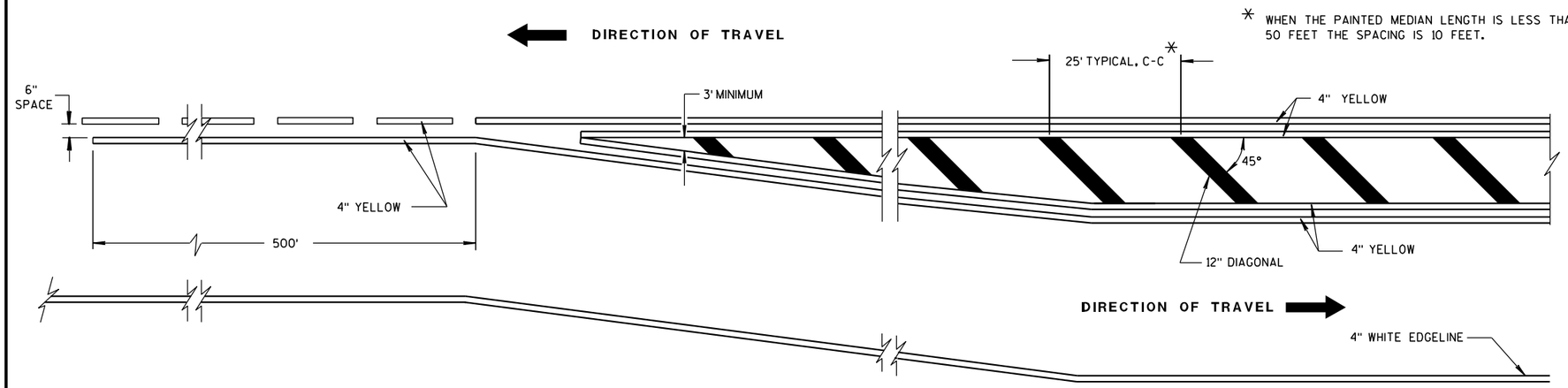
FHWA

6

S.D.D. 15 C 12-3

6

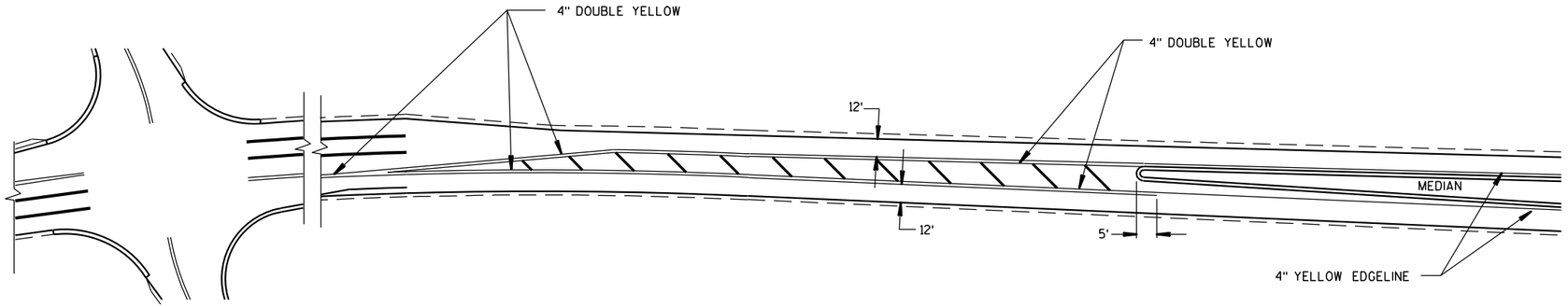
S.D.D. 15 C 12-3



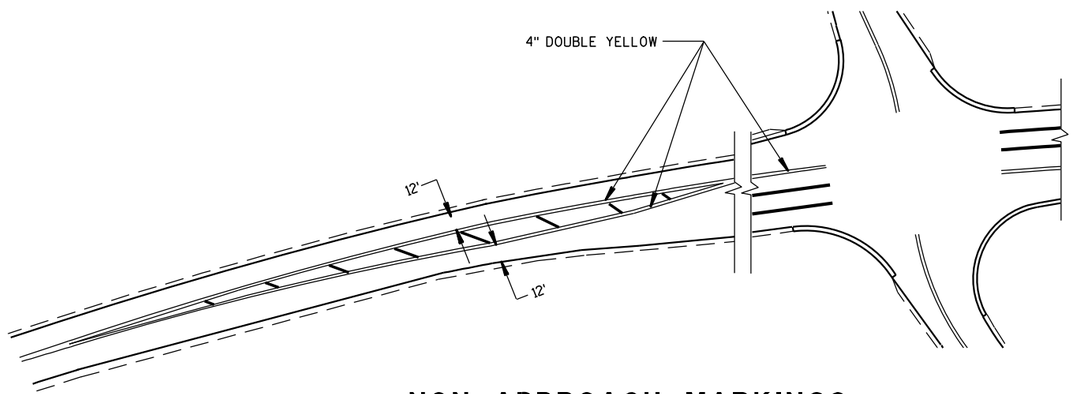
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

6

6

S.D.D. 15 C 18-3

S.D.D. 15 C 18-3

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

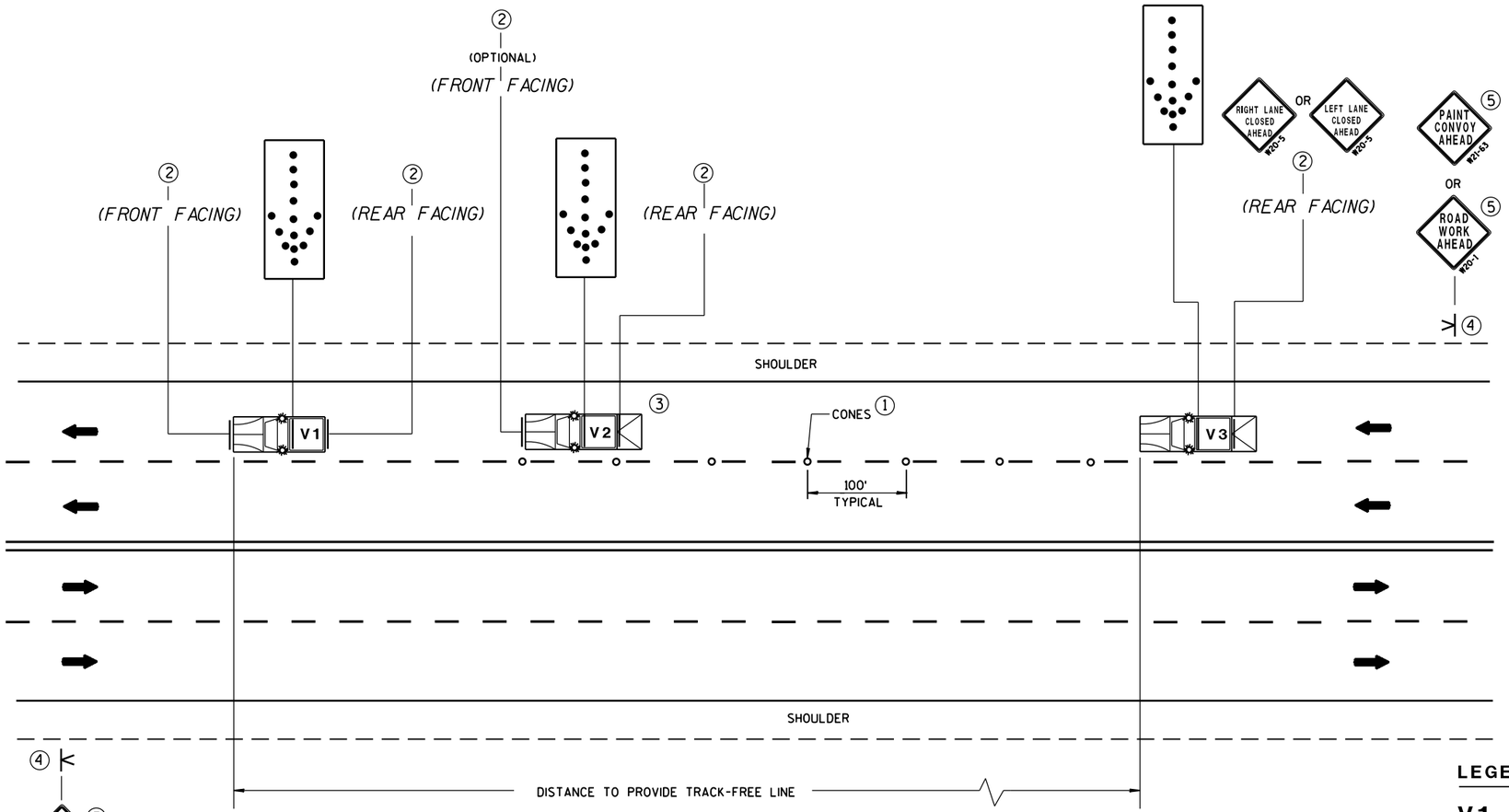
APPROVED

2-5-09 DATE

/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER

195 IGN

FHWA



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON PORTABLE SUPPORT
	DIRECTION OF TRAVEL
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/6/2011 DATE
/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER
FHWA

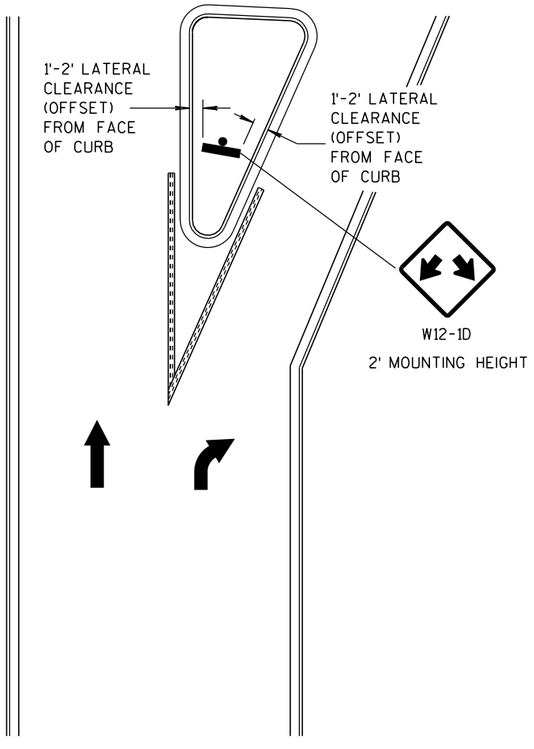
6

S.D.D. 15 C 19-1b

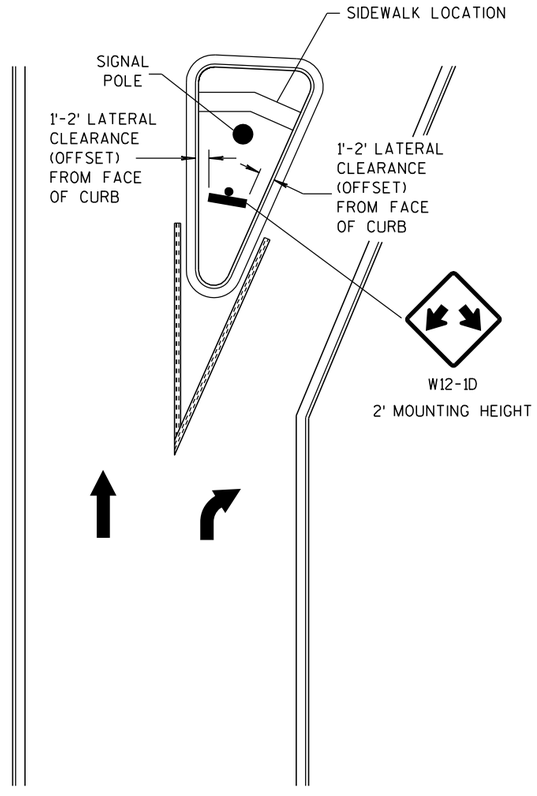
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

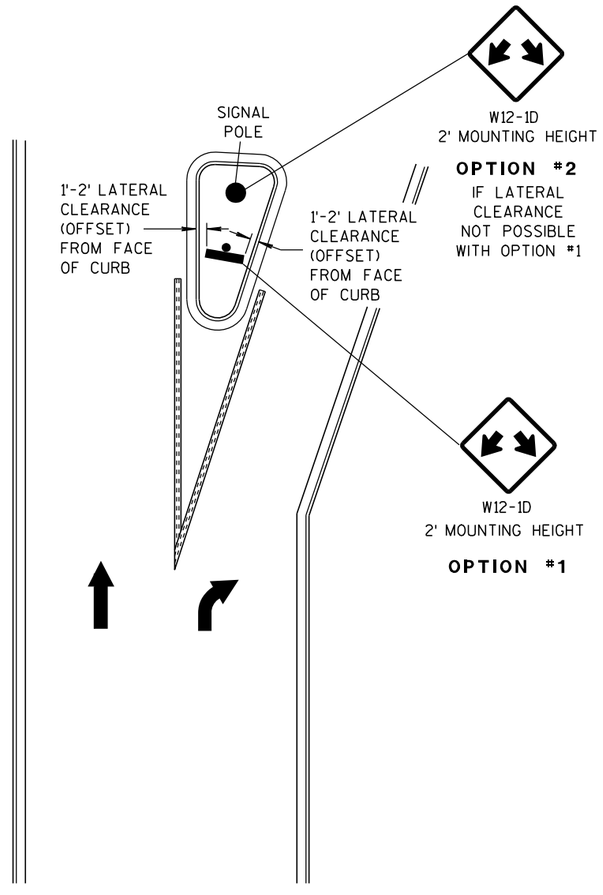
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



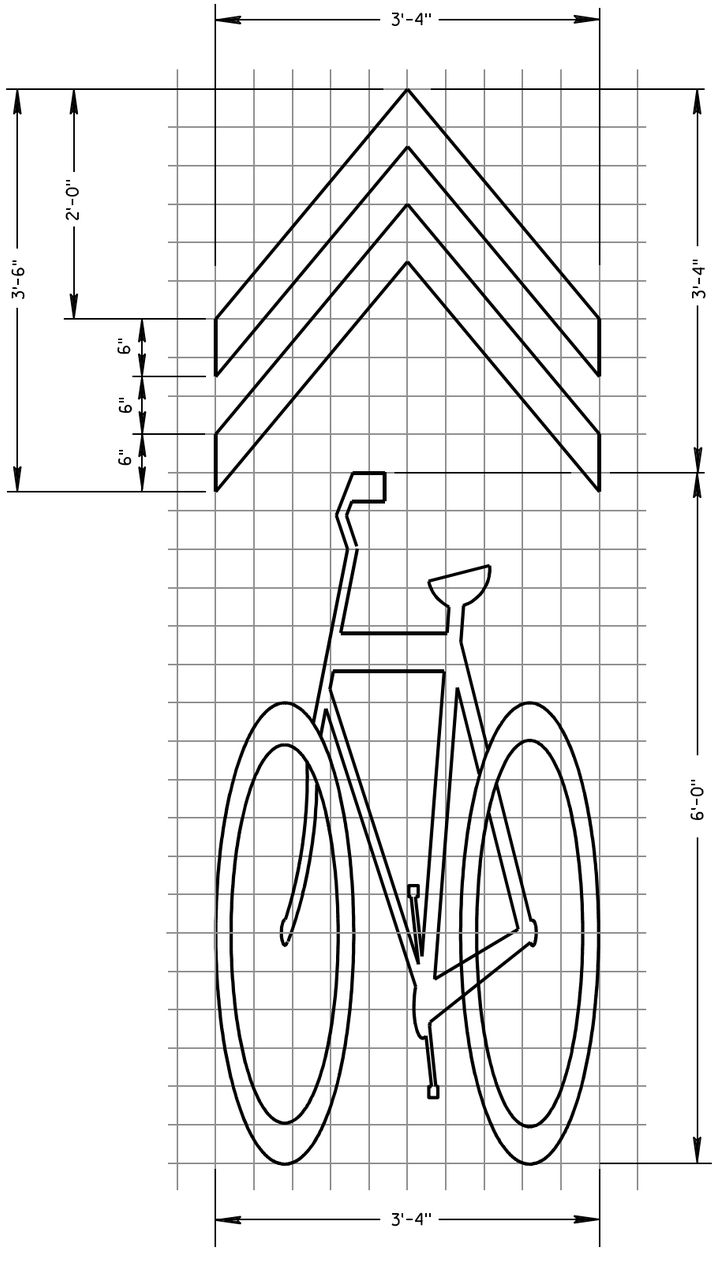
LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothem STATE TRAFFIC ENGINEER
FHWA	197 IGN



BIKE SYMBOL FOR SHARED LANE

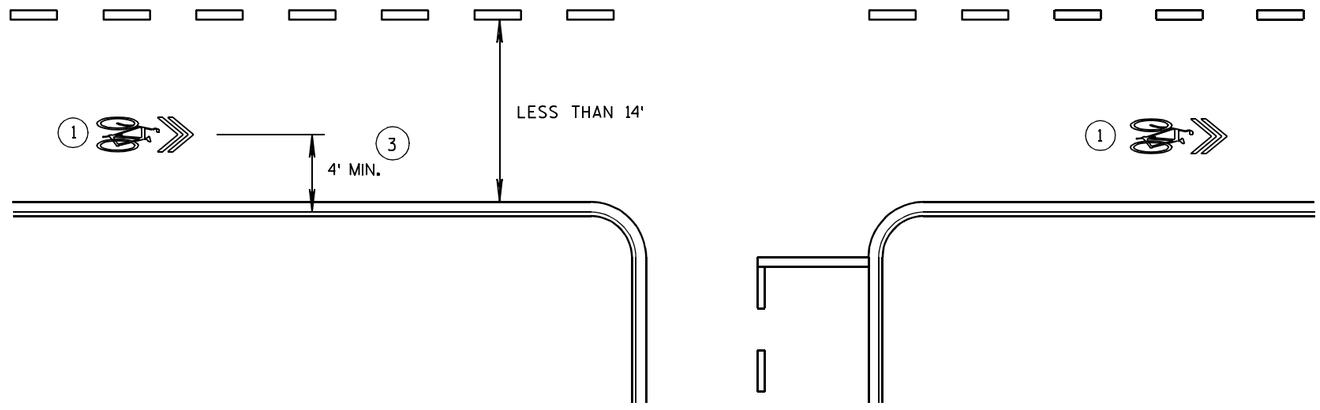
GENERAL NOTES

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

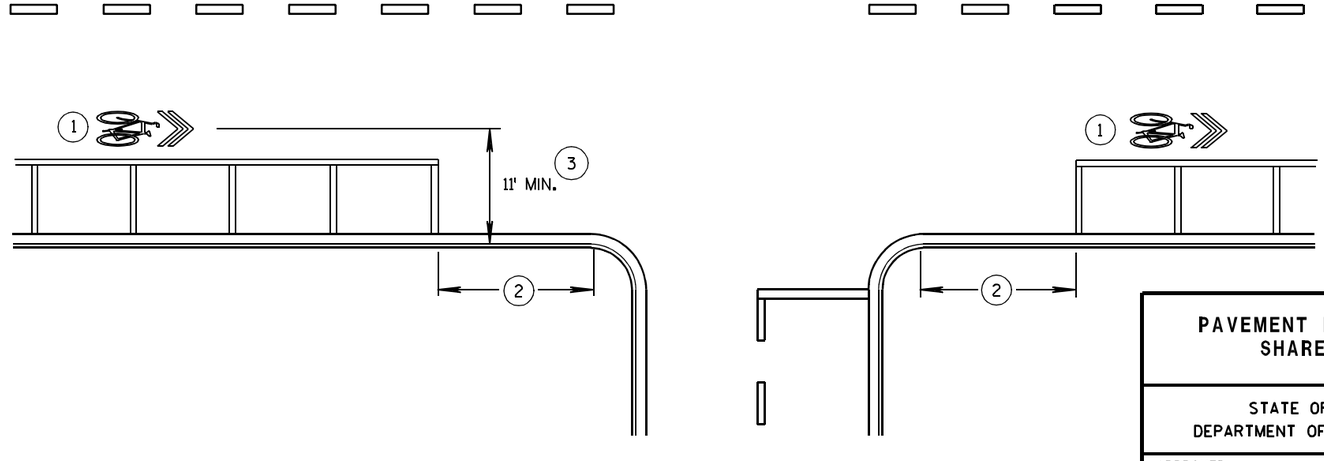
(1) SPACED A MAXIMUM OF 250 FEET.

(2) 20 FOOT MINIMUM FROM CURB RADIUS.

(3) OR TO EDGE OF PAVEMENT WITHOUT CURB.



WITHOUT PARKING



WITH PARKING

PAVEMENT MARKING FOR SHARED LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-6-2012
DATE

/S/ Thomas N. Nothem
STATE TRAFFIC ENGINEER

FHWA

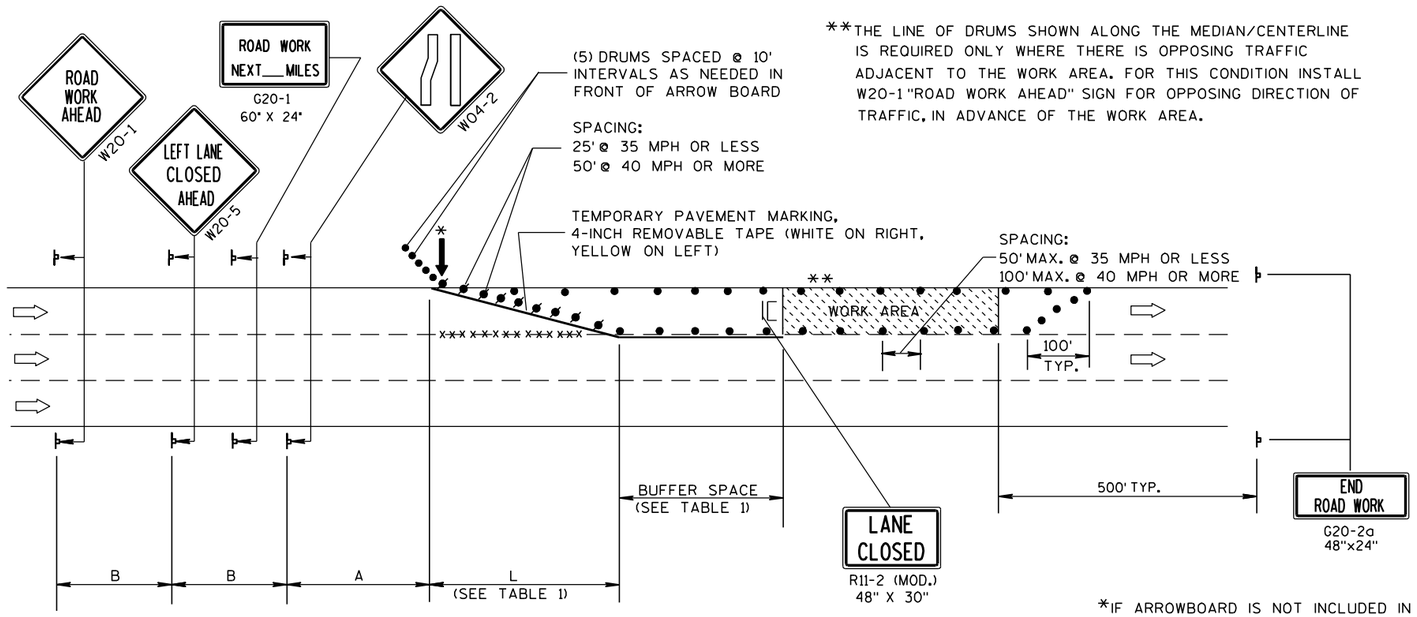
198

6

S.D.D. 15 C 29-2f

6

S.D.D. 15 C 29-2f



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

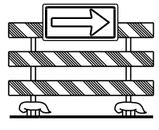


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

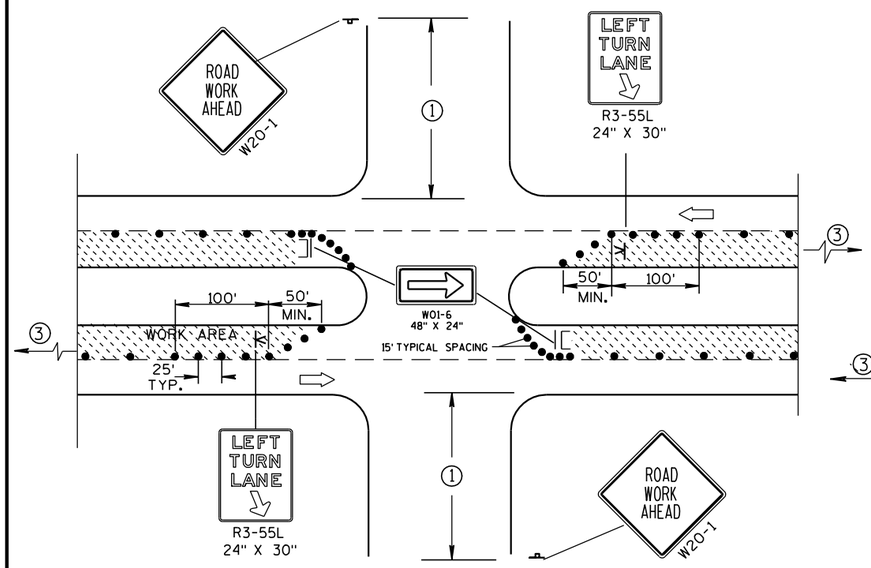
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

6

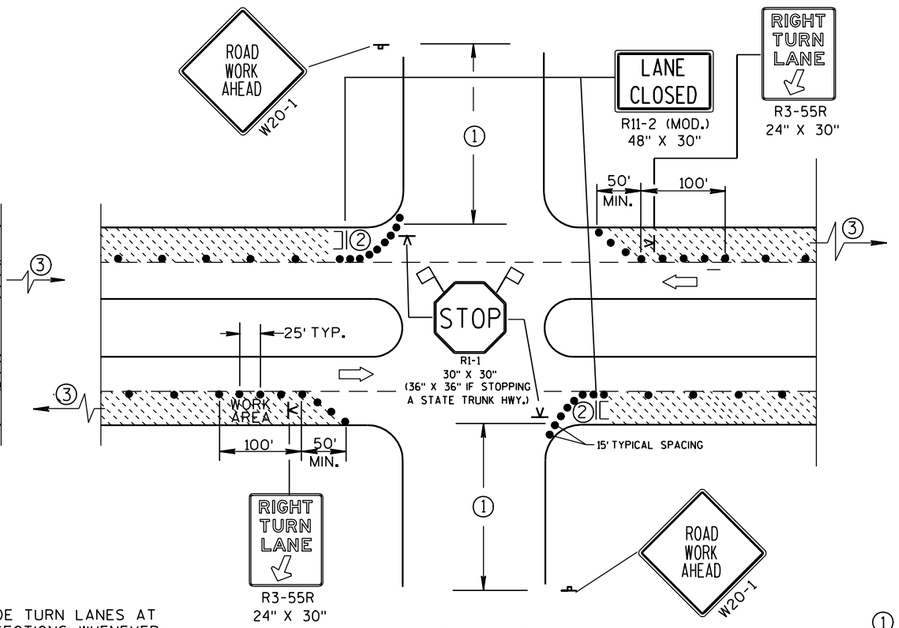
S.D.D. 15 D 20-1



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

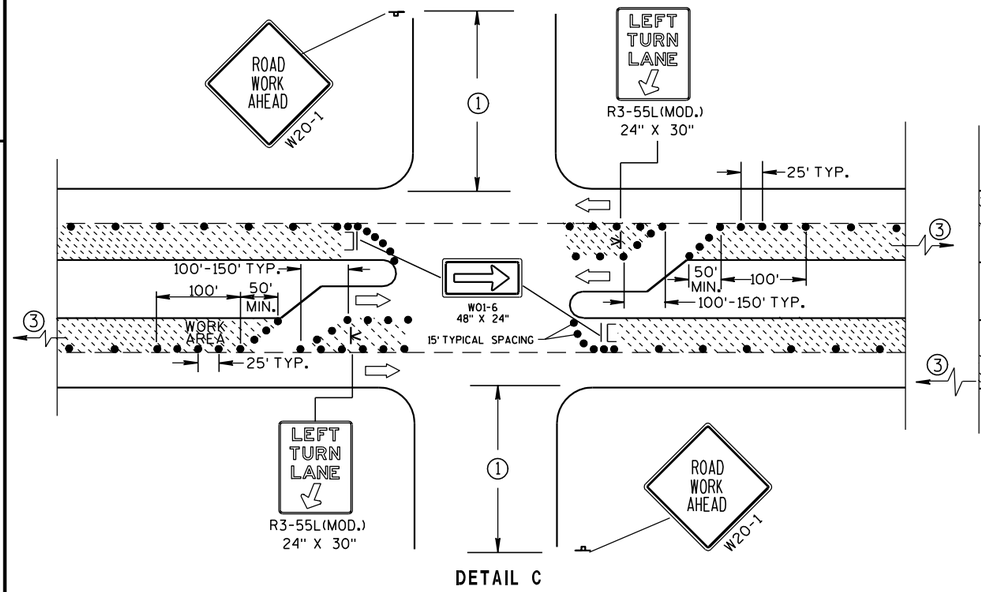
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

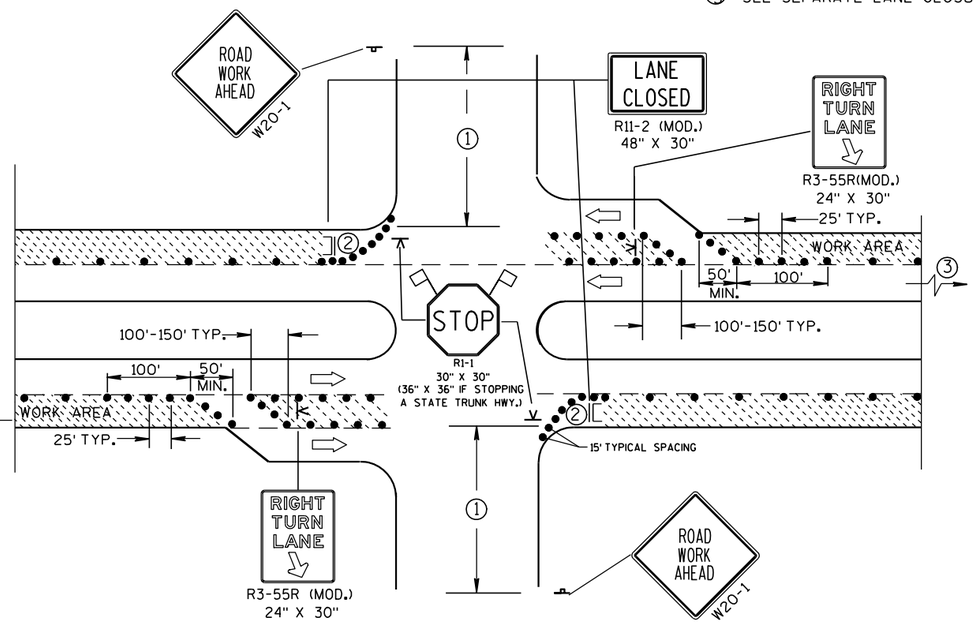
② ALSO USE BARRICADE AND 15' TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- DRUM
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH SIGN
- DIRECTION OF TRAFFIC FLOW
- FLAGS, 16" X 16" MIN., ORANGE

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

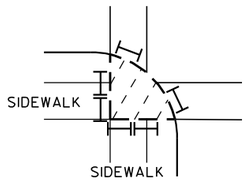
APPROVED

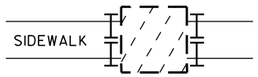
5/23/00 — DATE

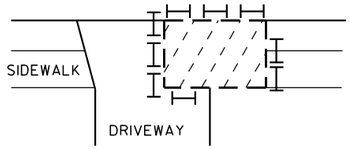
/S/ Chester J. Spang — CHIEF SIGNS AND MARKINGS ENGINEER

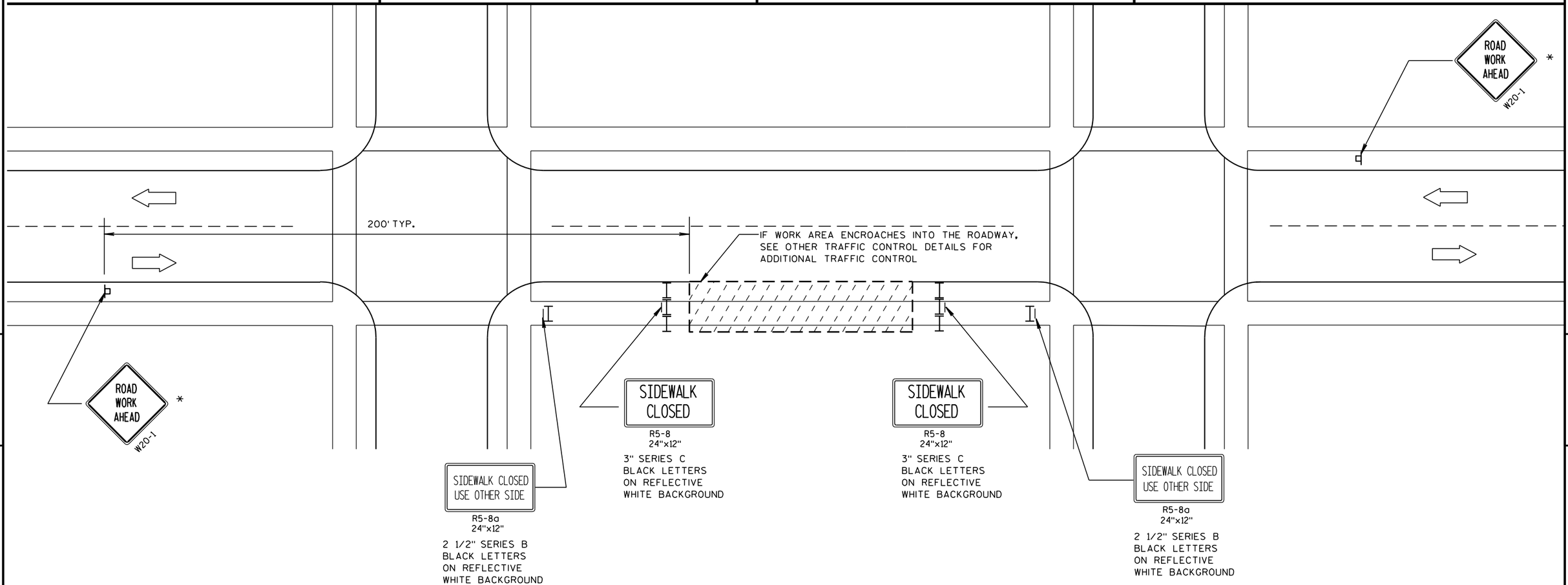
FHWA

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

TRAFFIC CONTROL, SIDEWALK CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

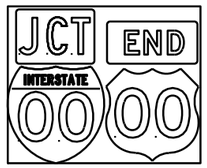
APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

6

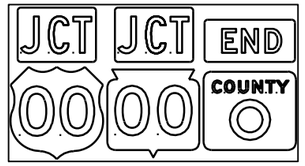
S.D.D. 15 D 30-1

TYPICAL ASSEMBLIES

J1-1

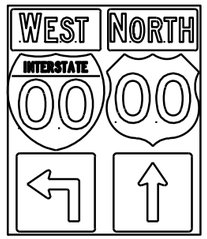


J1-2

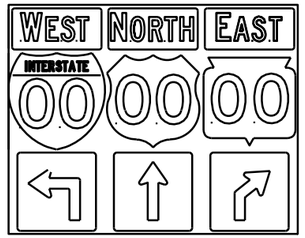


J1-3

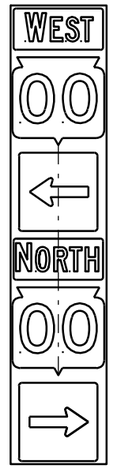
J2-1



J2-2

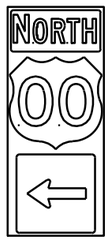


J2-3

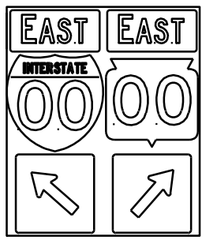


JV

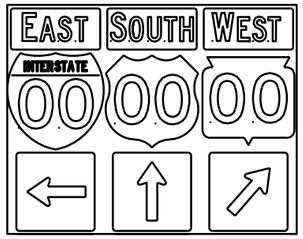
(Typical Vertical J-Assembly
See Note 10 and 11)



J3-1

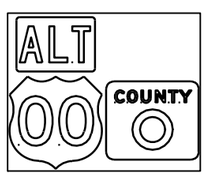


J3-2

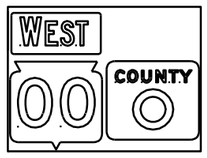


J3-3

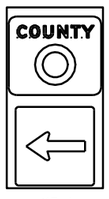
J4-1



J4-2



J4-2



J13-1

J12-1

J32-1

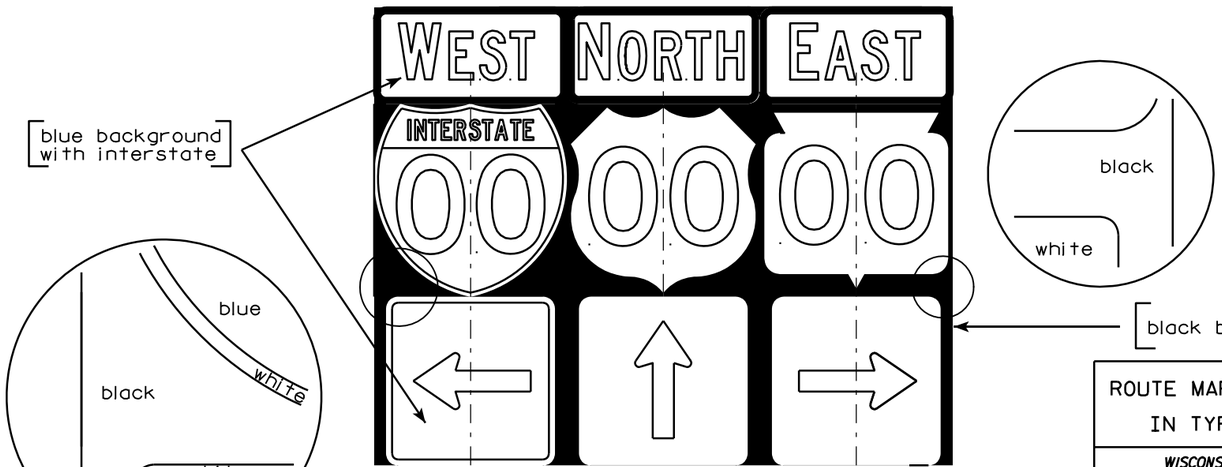
J33-1

J23-1

J22-1

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of interstate and non interstate shields, arrows and cardinals shall be white on blue.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/13 PLATE NO. A2-1S.7

7

7

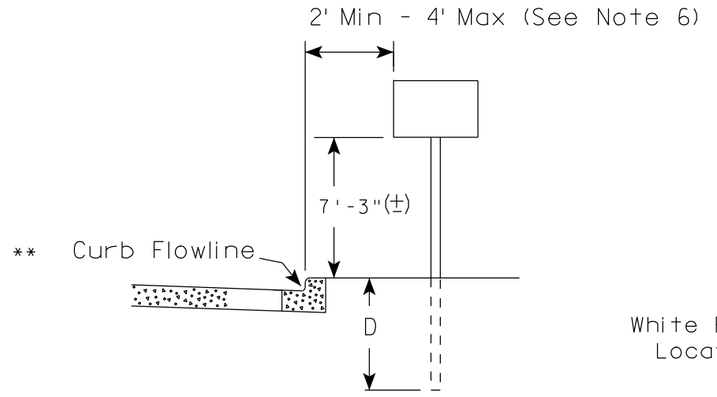
PROJECT NO:

SHEET NO: 202 E

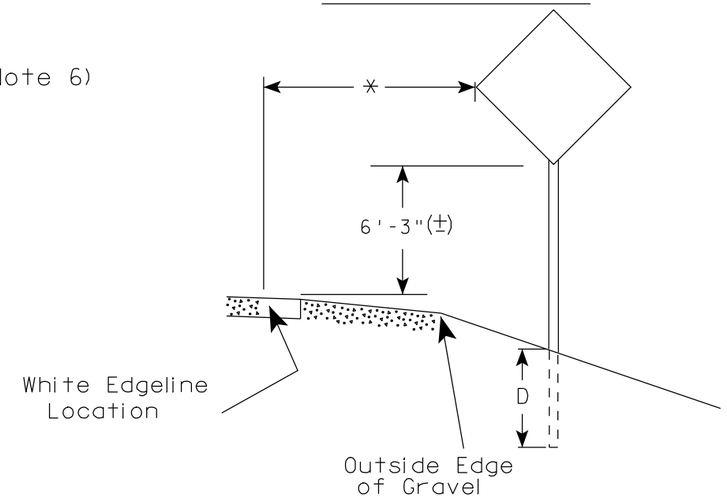
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 25-MAR-2013 11:33 PLOT BY : mscsja PLOT NAME :

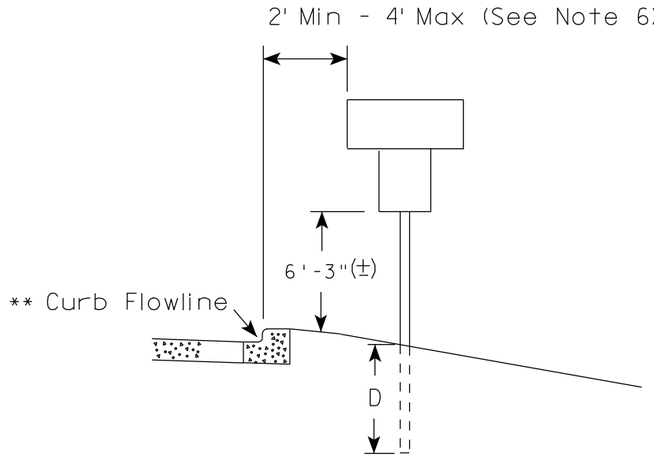
WISDOT/CADDS SHEET 42

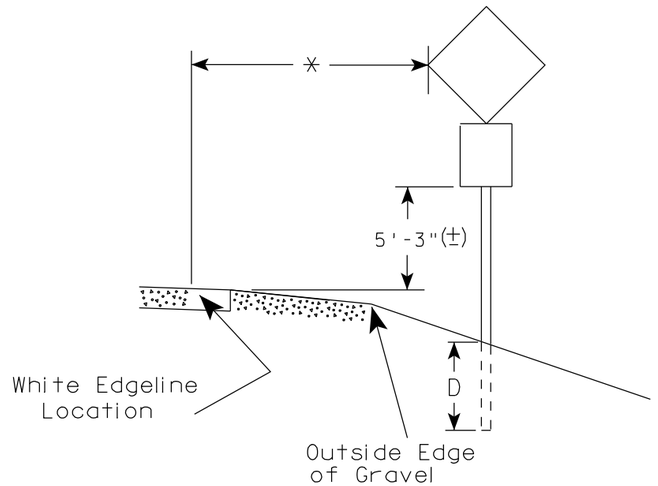
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

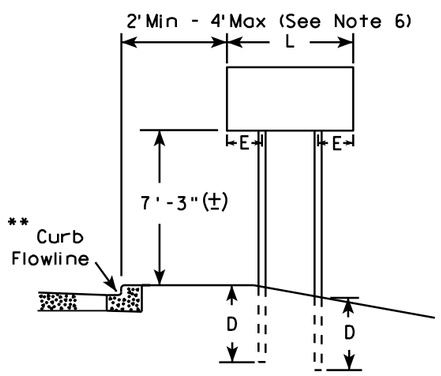
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

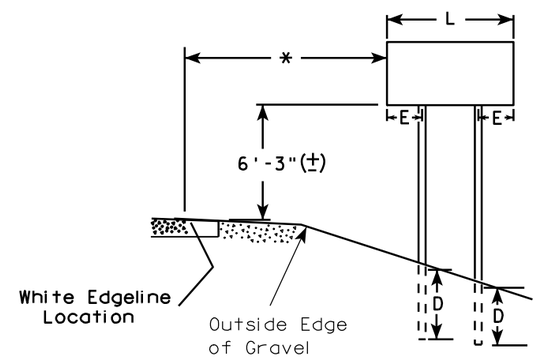
DATE 5/24/2013 PLATE NO. A4-3.17

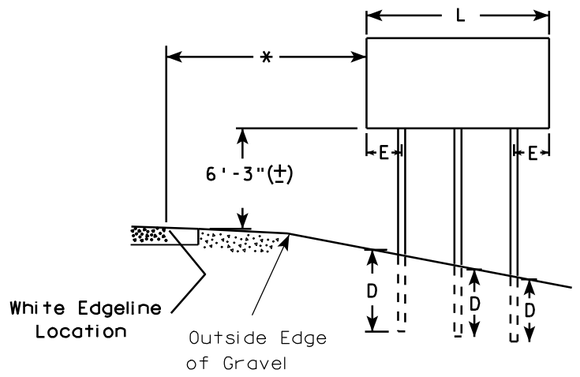
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 203	E

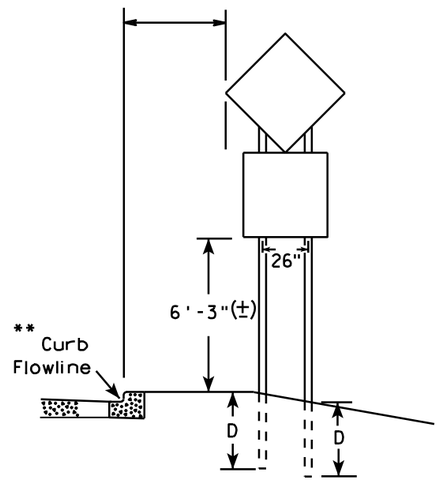
URBAN AREA



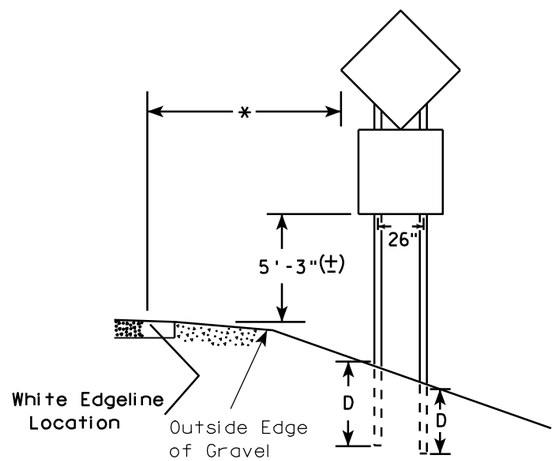
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. For multiple post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

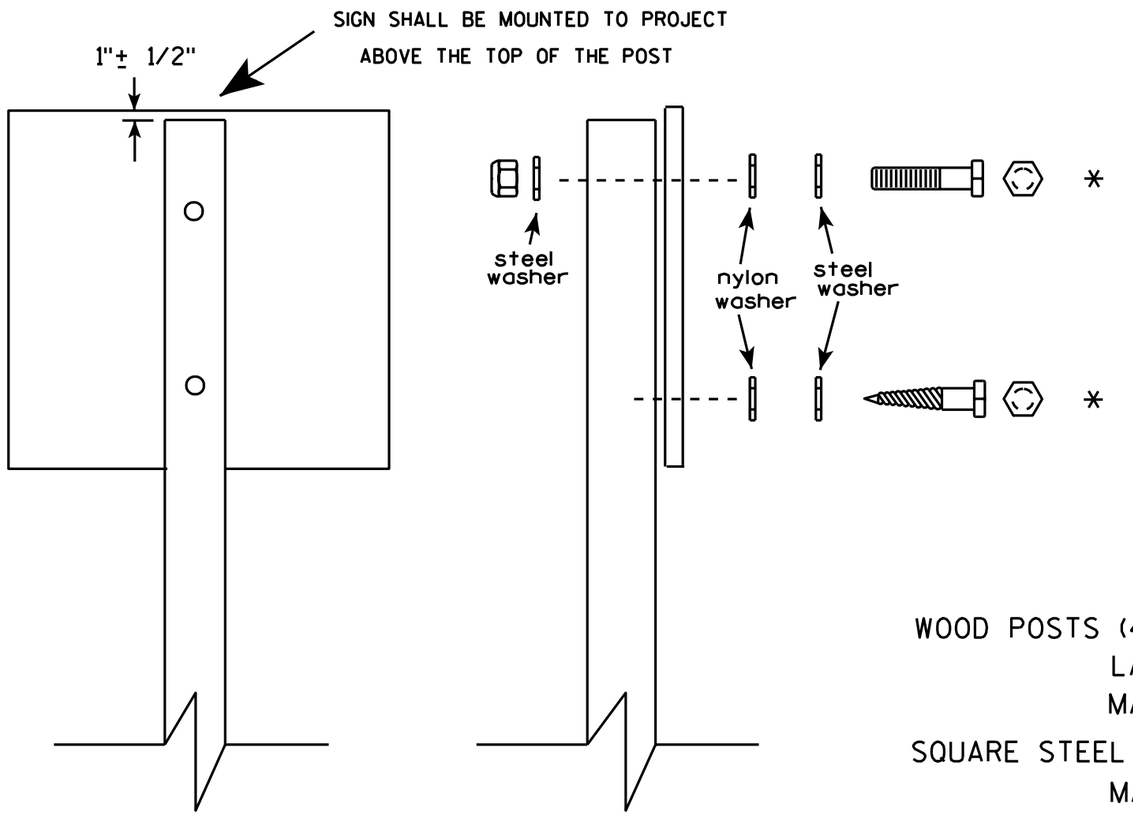
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 204	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A44.DGN PLOT DATE : 21-SEP-2011 13:36 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 109.249131:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

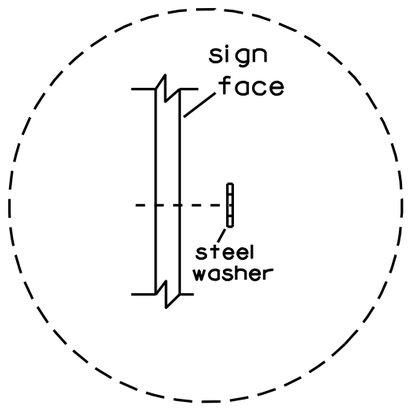
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

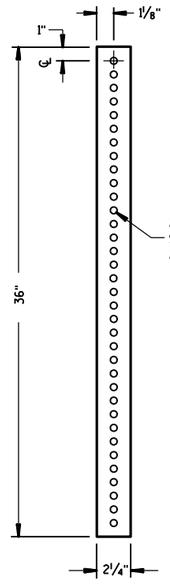
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

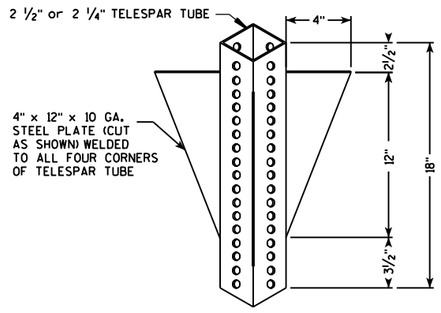
DATE 3/23/10 PLATE NO. A4-8.7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

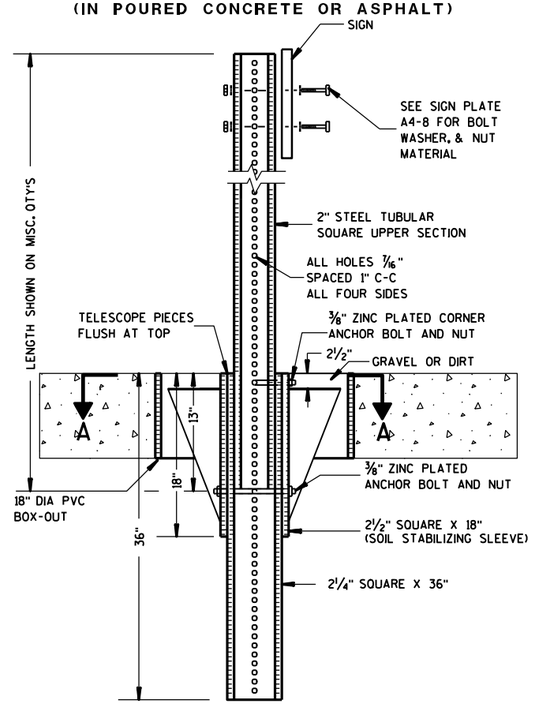
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



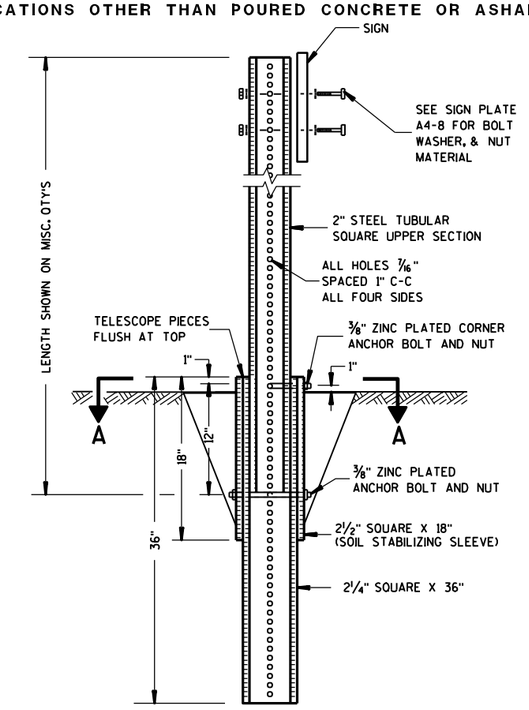
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

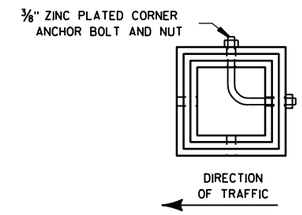


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL SIGN POST A4-9

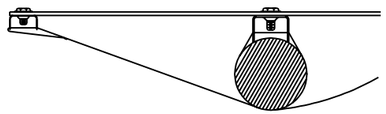
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

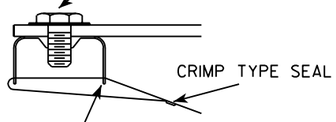
DATE 5/30/12 PLATE NO. A4-9.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 206	E

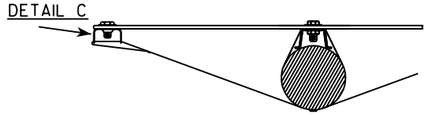
BRACE BANDING

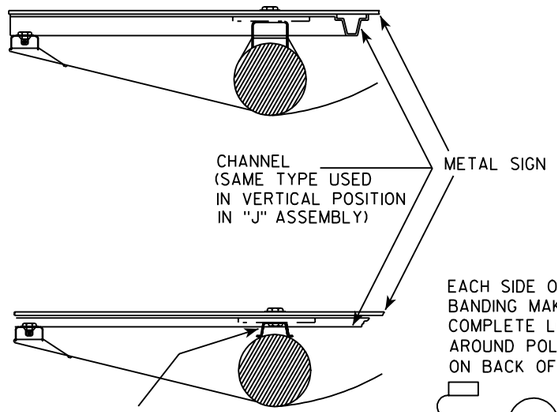


DETAIL C
CADMIUM PLATED STEEL BOLT
THROUGH BLACK BORDER

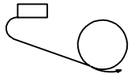


DETAIL C



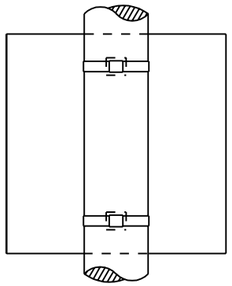


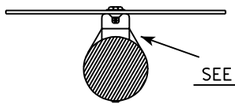
EACH SIDE OF BRACE
BANDING MAKES ONE
COMPLETE LOOP
AROUND POLE-SEAL
ON BACK OF POLE



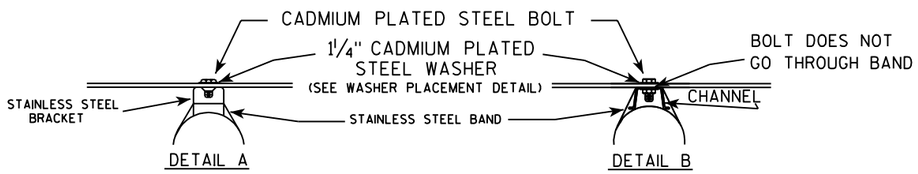
BRACKET BANDING

SINGLE SIGN

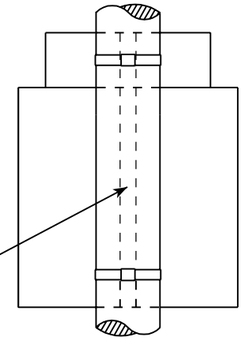




SEE DETAIL A



"J" ASSEMBLY

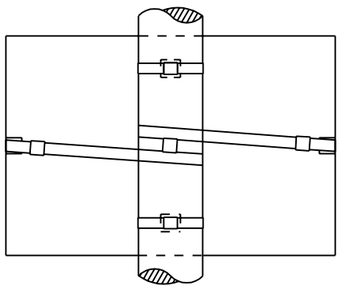


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

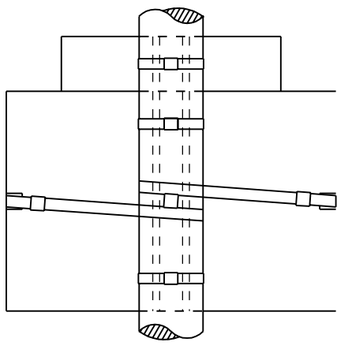
GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

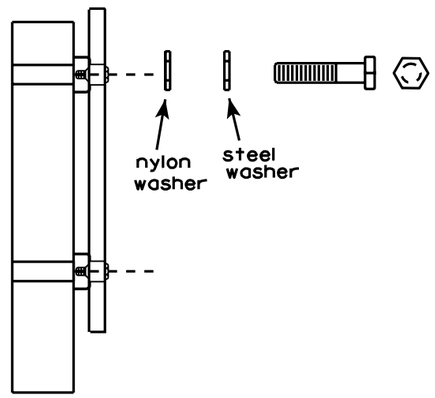


BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

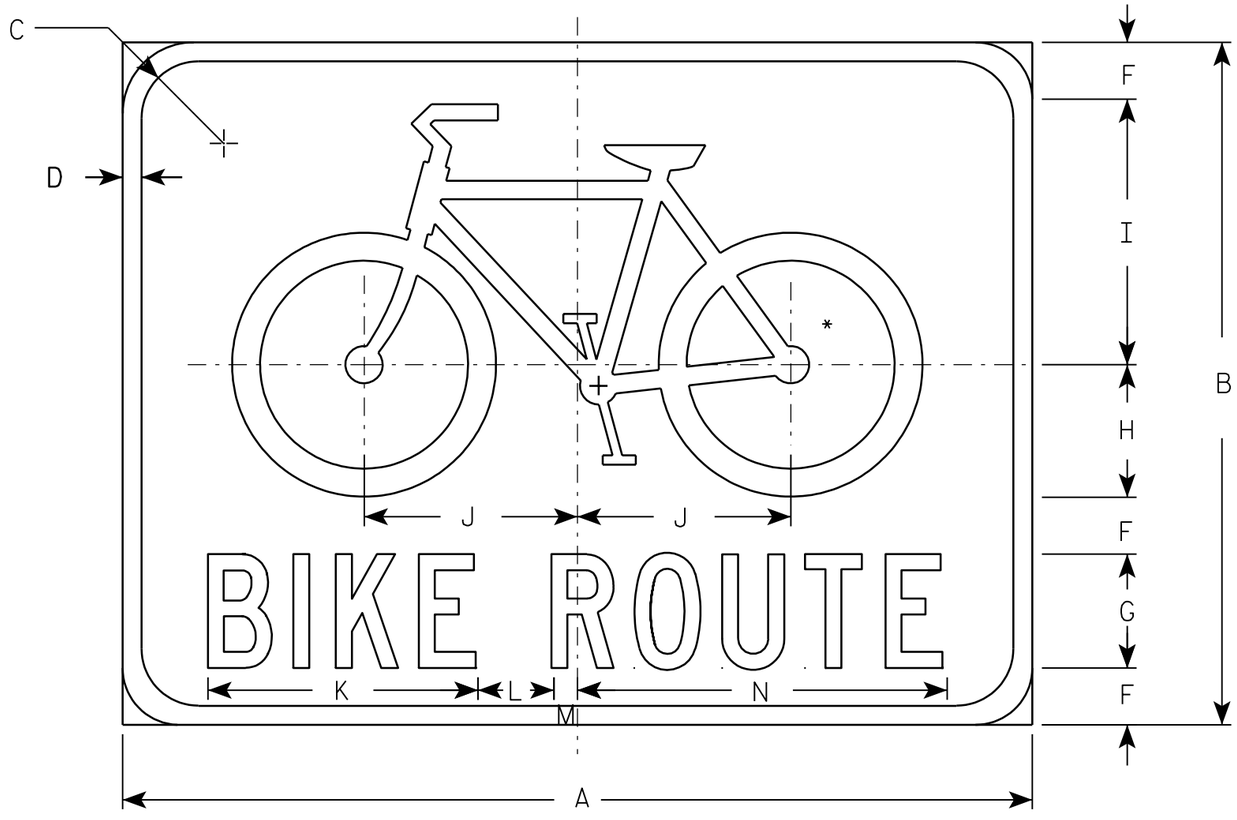
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 207	E



D11-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

* See W11-1 for symbol design

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 450 mm
3	750 mm X 600 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	18	1 1/2	1/2		1 1/2	3	3 1/2	7	5 5/8	7 1/8	2	5/8	9 3/4													3.0	0.27
3	30	24	1 1/4	5/8		2	4	4 3/4	9 1/4	7 1/2	9 1/2	2 5/8	7/8	13													5.0	0.45
4																												
5																												

STANDARD SIGN
D11-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/04 PLATE NO. D11-1.1

PROJECT NO:

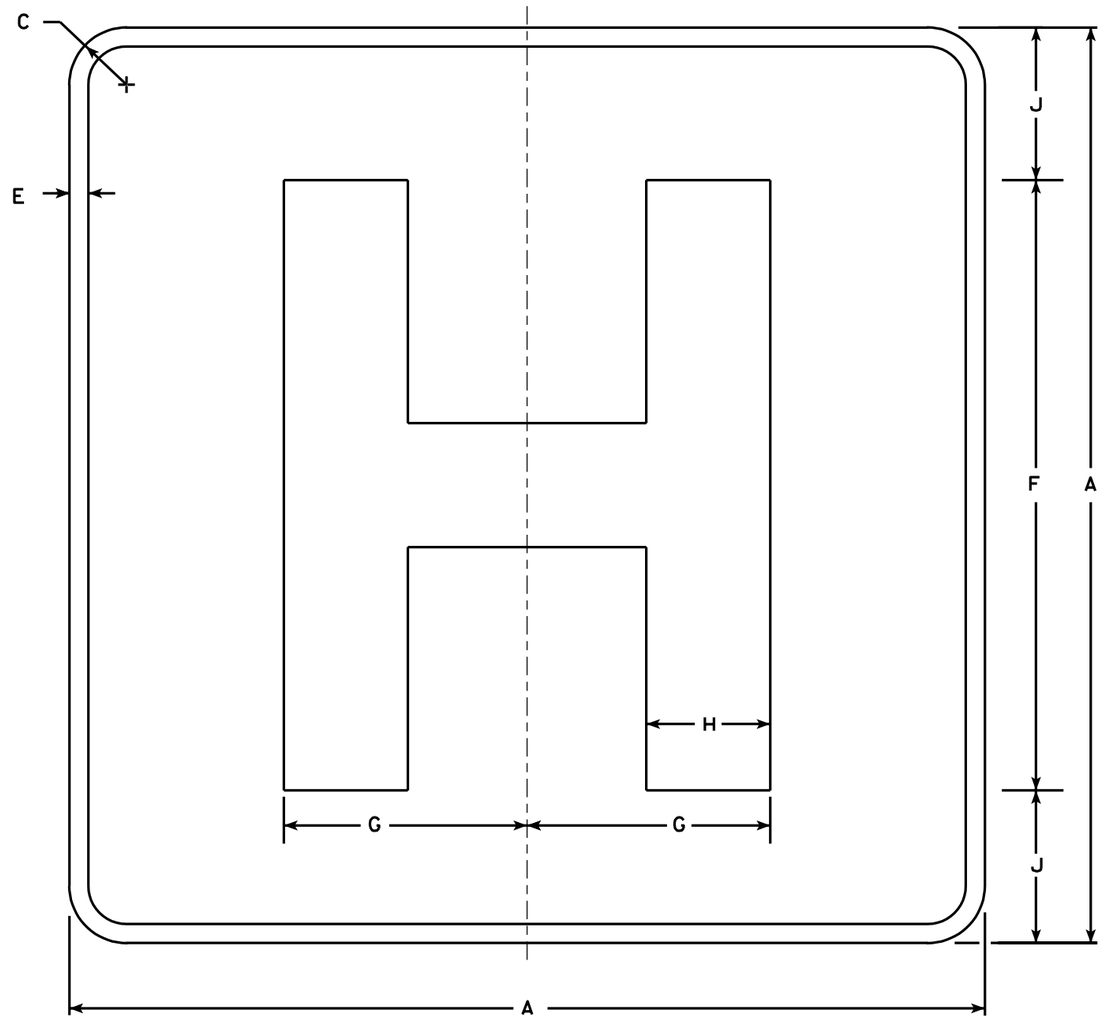
SHEET NO: 208 E

FILE NAME : C:\Users\Projects\tr_stdplate\D111.DGN PLOT DATE : 17-MAR-2005 10:38 PLOT BY : DOTDZK

WISDOT/CADDS SHEET 42

7

7



D9-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
3. Message Series - E Modified
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong for State Traffic Engineer

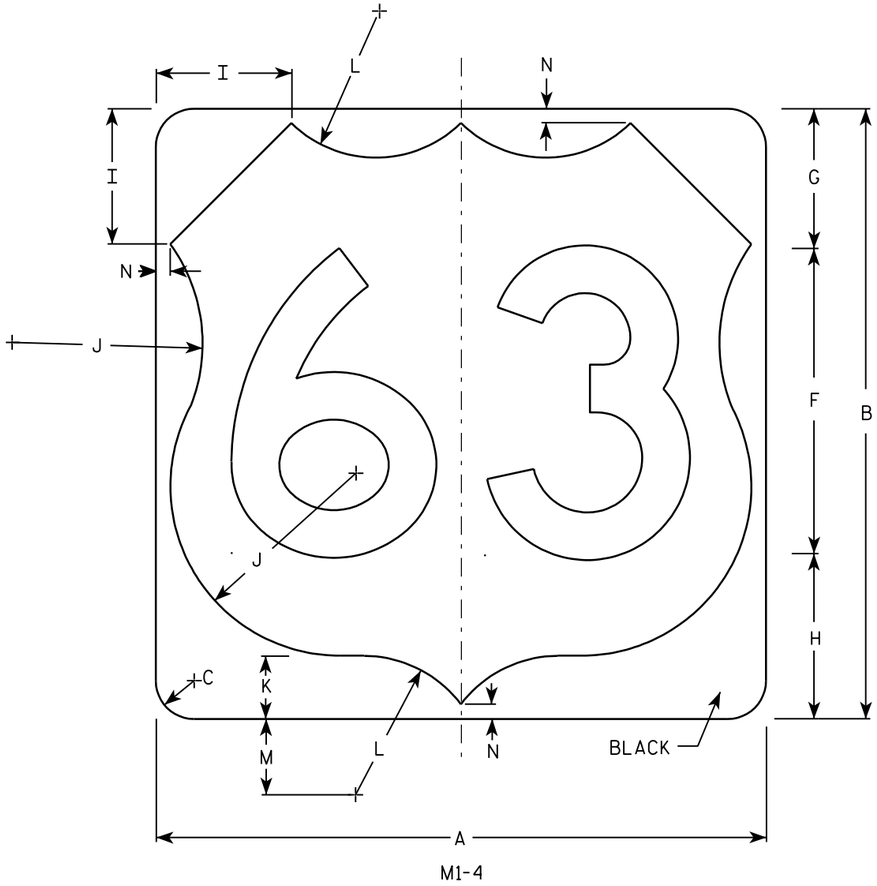
DATE 1/15/02 PLATE NO. D9-2.4

PROJECT NO:

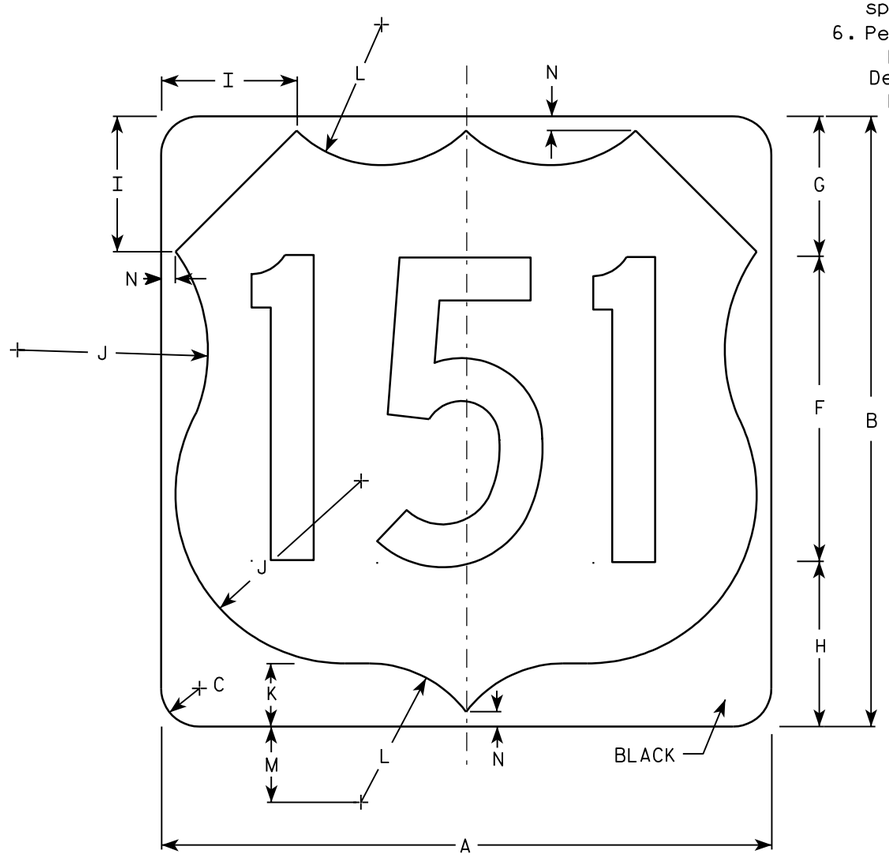
SHEET NO: 209 E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq. sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

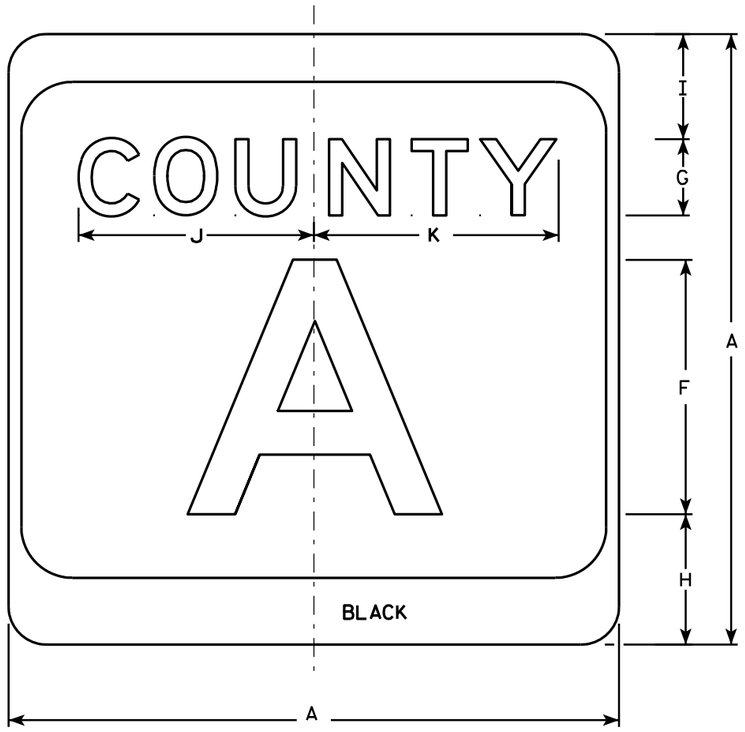
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

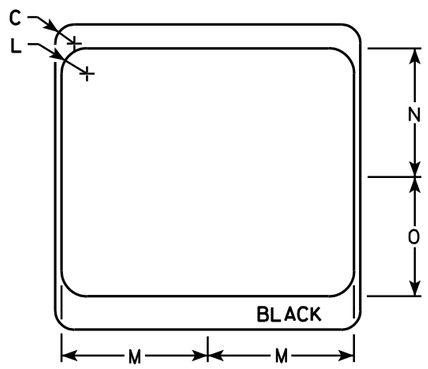
APPROVED Matthew R Rauch
for State Traffic Engineer

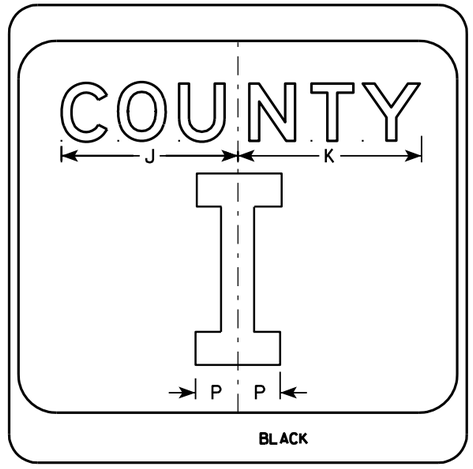
DATE 08/25/05 PLATE NO. M1-4.9

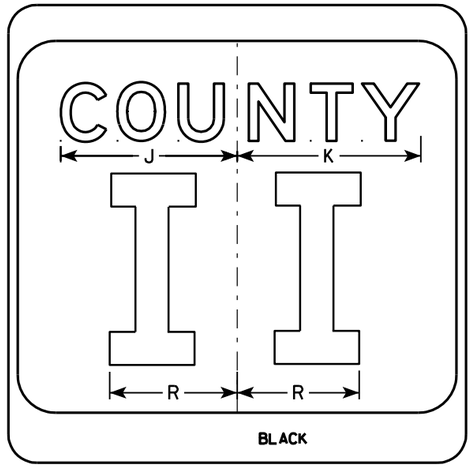
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 210 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

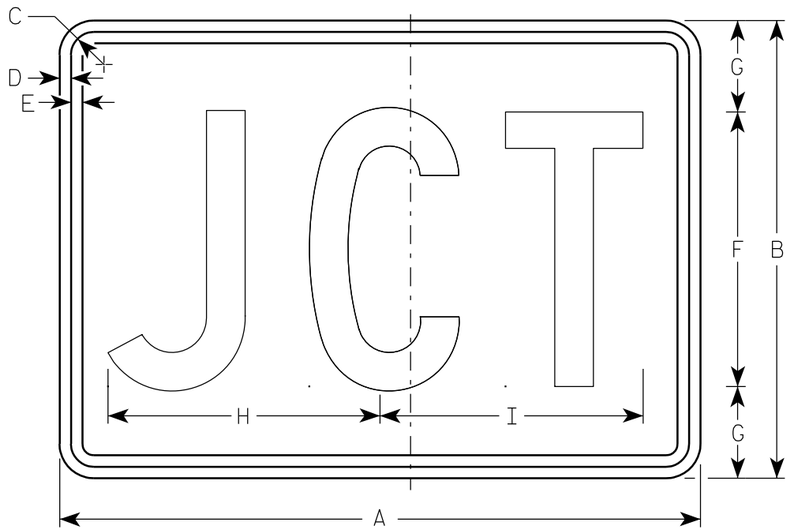
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

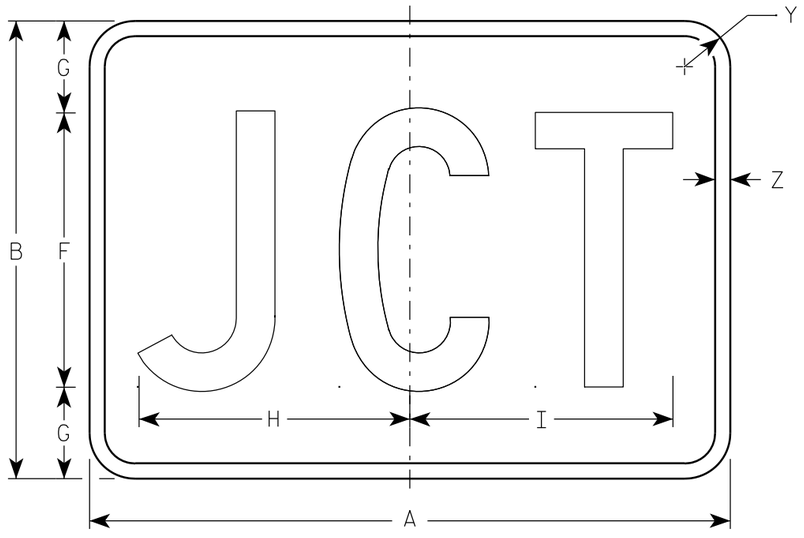
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 211	E



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20

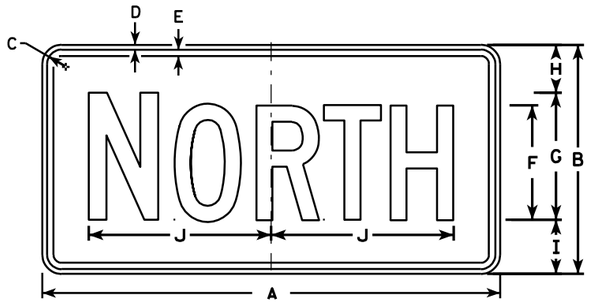
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

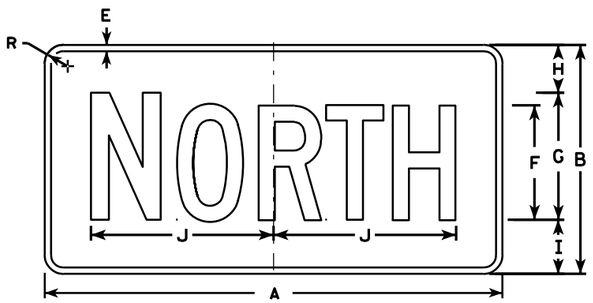
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 212	E

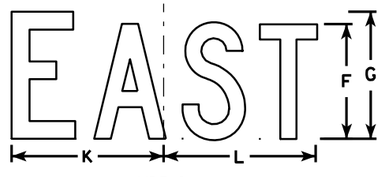


M3-1
MK3-1
MO3-1



MB3-1
MG3-1
MM3-1
MN3-1

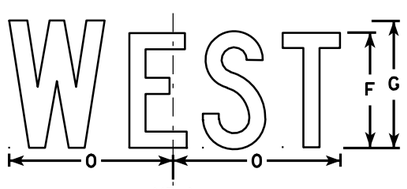
M3-2
MK3-2
MO3-2



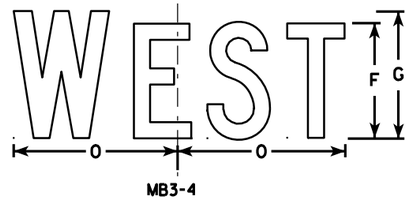
MB3-2
MG3-2
MM3-2
MN3-2

M3-3
MK3-3
MO3-3

MB3-3
MG3-3
MM3-3
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective
   (Detour or temporary signs - Reflective)
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green
   Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green
   Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective
   Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

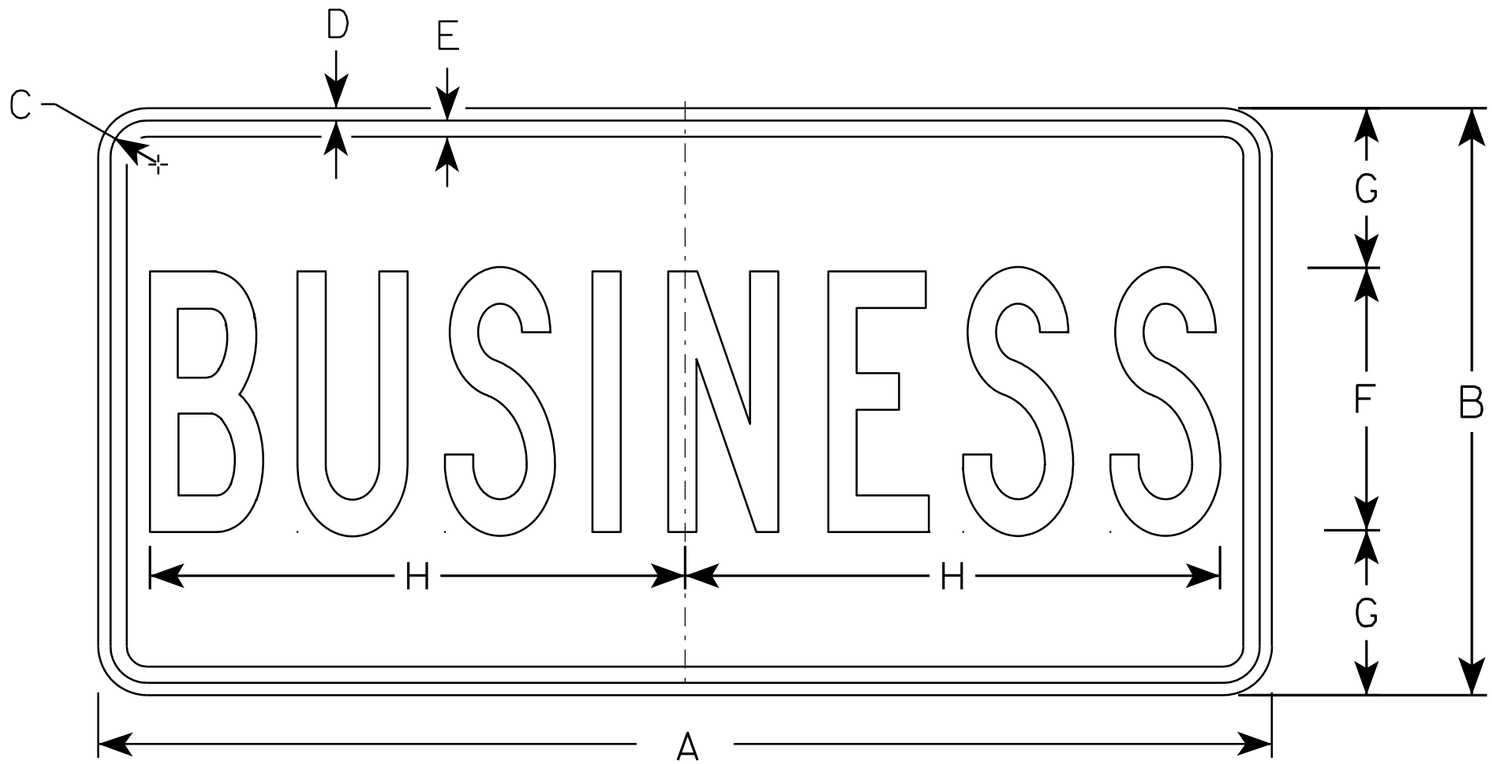
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 213	E



M4-3

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

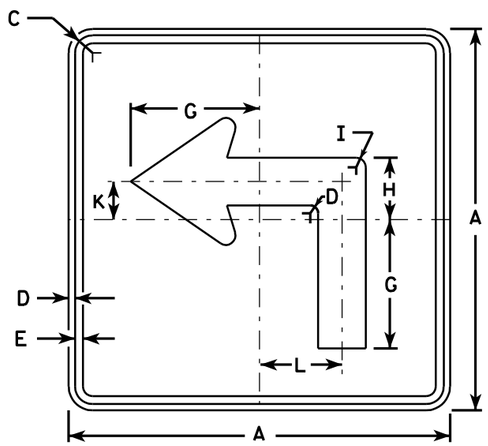
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

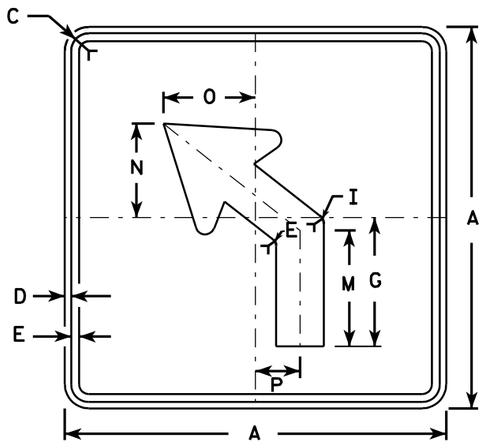
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

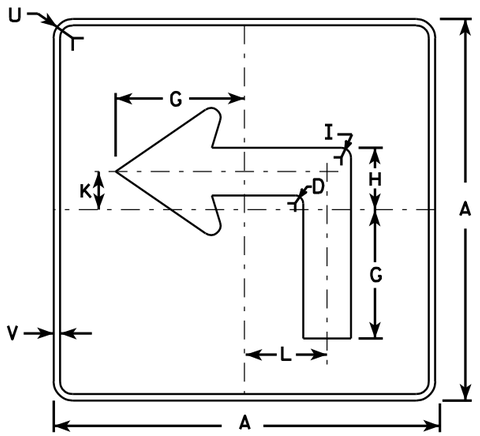
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 214 | E



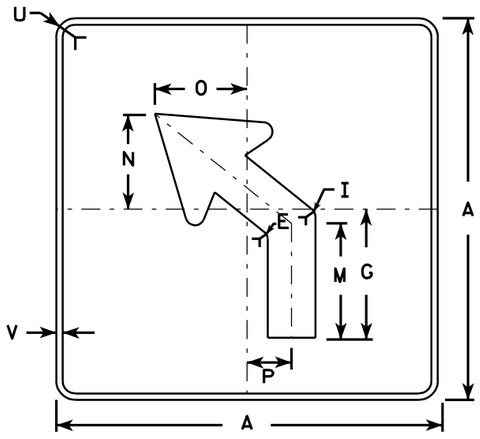
M5-1L
MK5-1L
MM5-1L
MO5-1L
MR5-1L



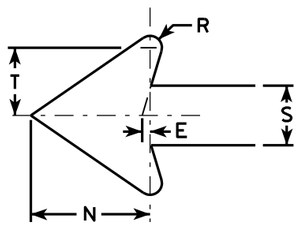
M5-2L
MK5-2L
MM5-2L
MO5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB5-1 and MB5-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG5-1 and MG5-2 Background - Green Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective Message - Green
   MN5-1 and MN5-2 Background - Brown Message - White - Type H Reflective
   MO5-1 and MO5-2 Background - Orange - Reflective Message - Black
   MR5-1 and MR5-2 Background - Brown Message - Yellow - Type H Reflective
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56

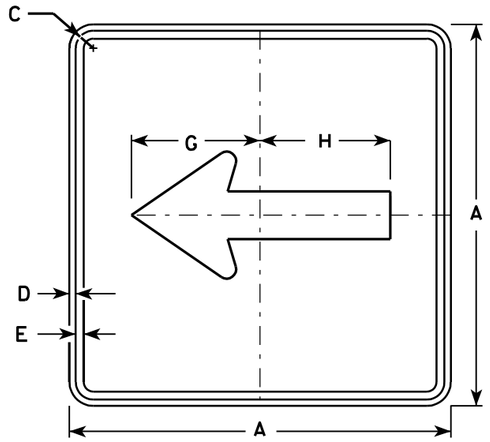
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

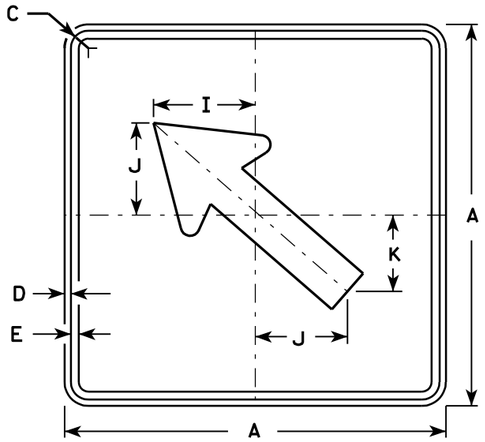
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M5-1.11

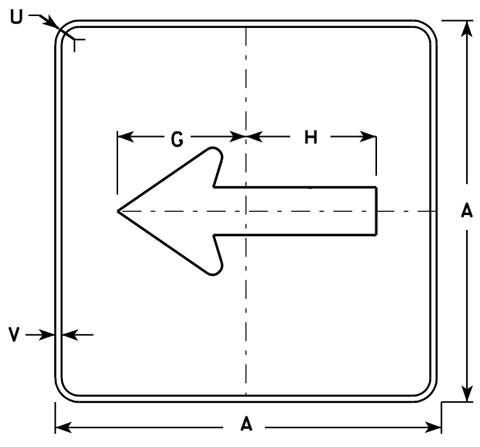
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 215	E



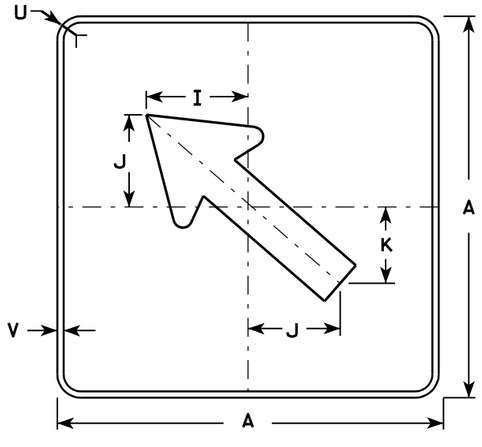
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MR6-2



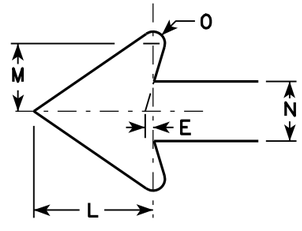
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB6-1 and MB6-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG6-1 and MG6-2 Background - Green Message - White - Type H Reflective
   MK6-1 and MK6-2 Background - Green Message - White - Type H Reflective
   MM6-1 and MM6-2 Background - White - Type H Reflective Message - Green
   MN6-1 and MN6-2 Background - Brown Message - White - Type H Reflective
   MO6-1 and MO6-2 Background - Orange - Reflective Message - Black
   MR6-1 and MR6-2 Background - Brown Message - Yellow - Type H Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

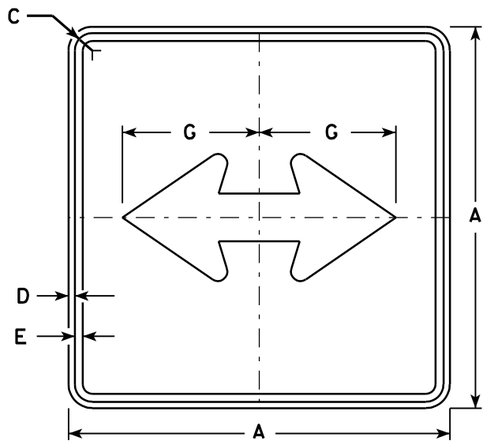
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

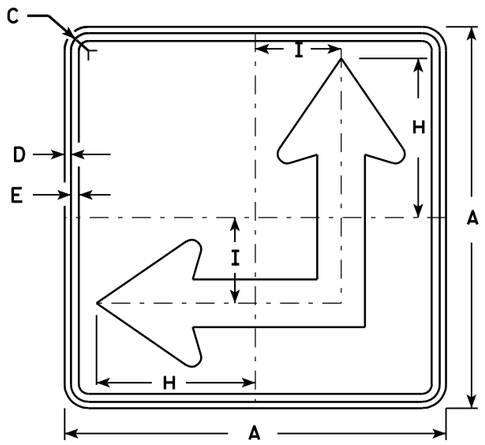
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

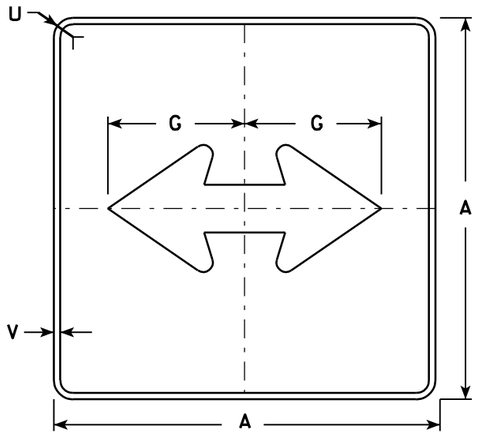
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 216	E



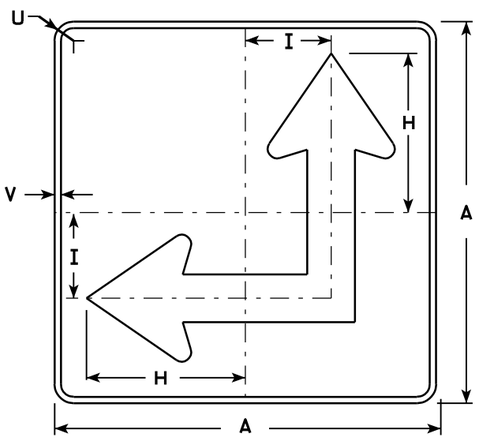
M6-4
MK6-4
MM6-4
MO6-4
MR6-4



M6-6
MK6-6
MM6-6
MO6-6
MR6-6



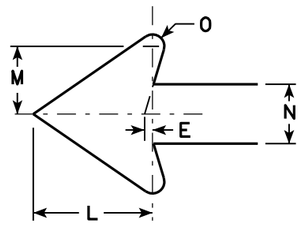
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Reflective
   Message - Black
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

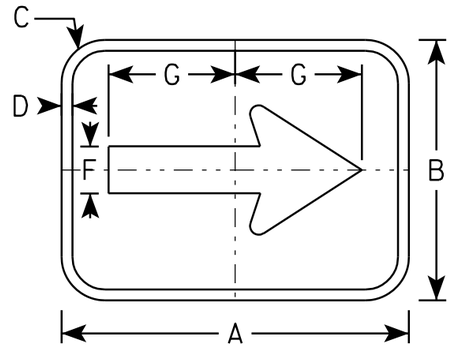
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

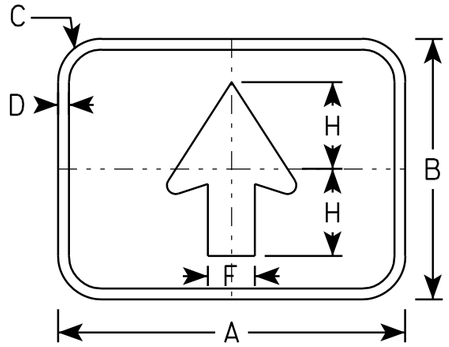
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-4.7

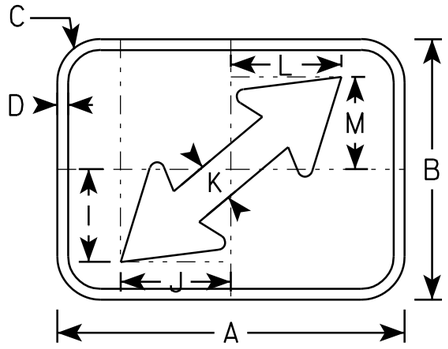
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 217	E



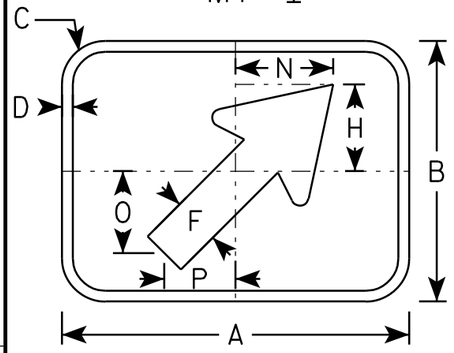
M7-1



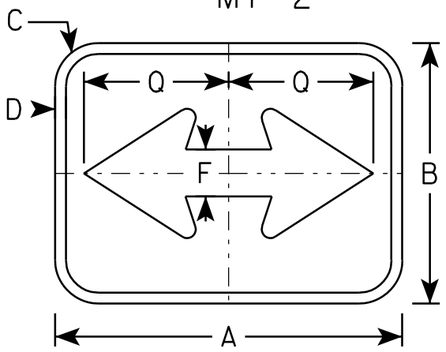
M7-2



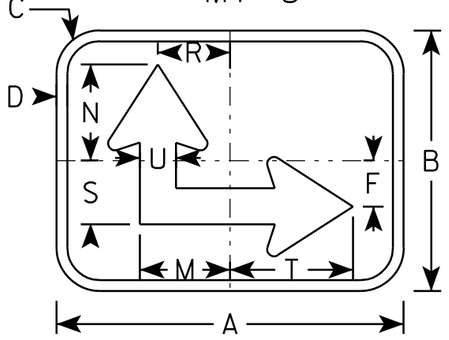
M7-3



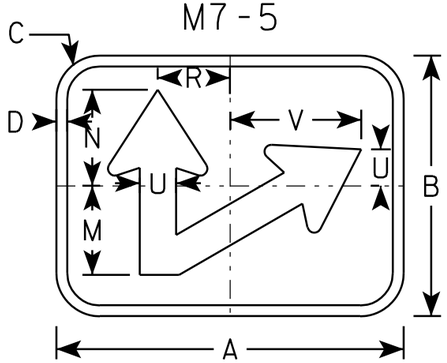
M7-4



M7-5



M7-6



M7-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message -White
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	12	9	1 1/2	3/8		1 5/8	4 3/8	3	3 1/4	3 3/4	1 3/8	3 7/8	3 1/8	3 3/8	2 7/8	2 1/2	5	2 1/2	2 1/4	4 1/4	1 1/4	4 1/2					.75
3																											
4																											
5																											

STANDARD SIGN
M7 SERIES

WISCONSIN DEPT OF TRANSPORTATION

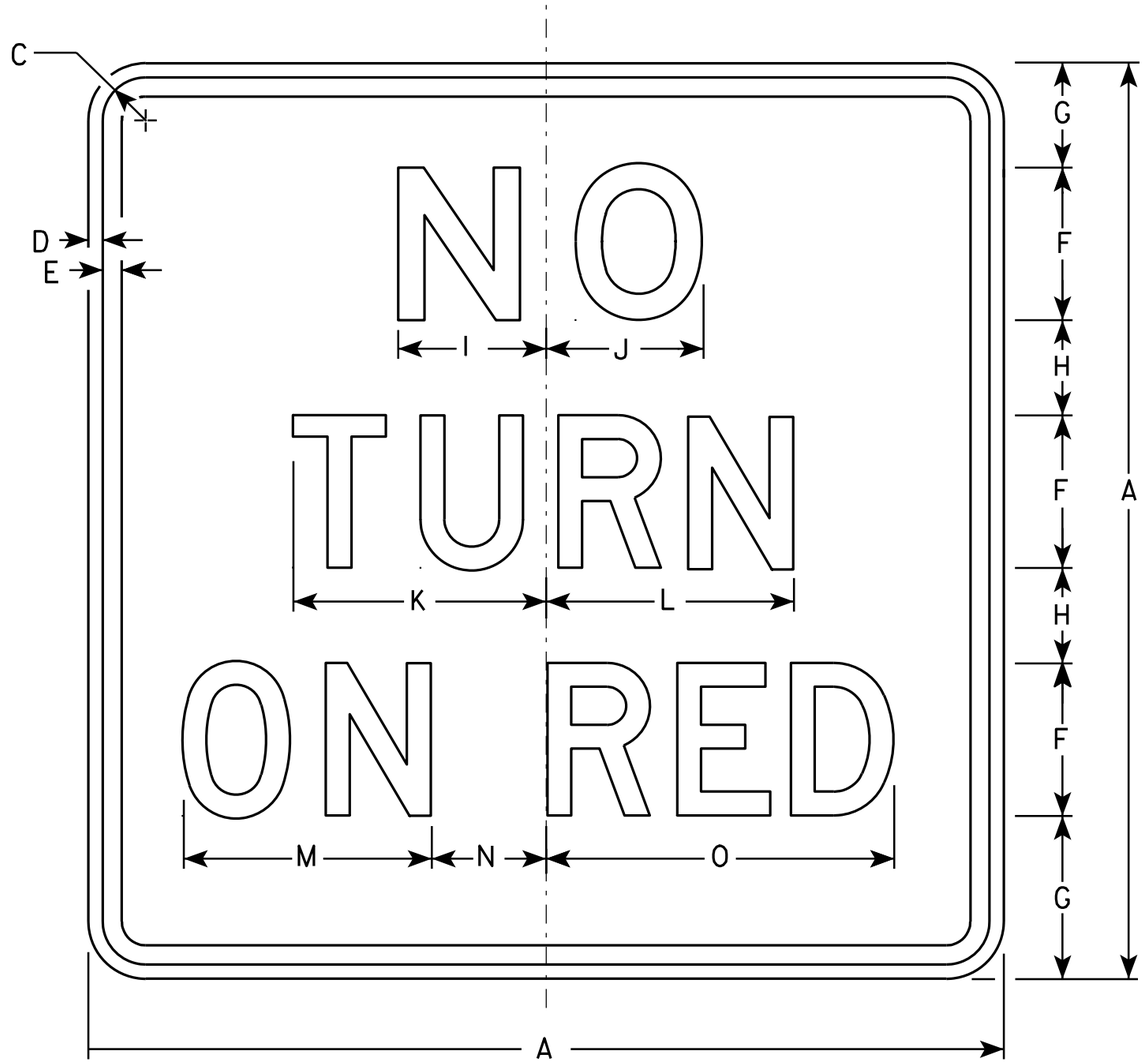
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 05/04/10 PLATE NO. M7-1.1

7

7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 218	E



R10-11B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series E.
   Lines 2 and 3 are Series D.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 7/8	5 1/4	1 7/8	7 1/8												2.25
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
3	30		1 3/8	1/2	5/8	5	4 1/2	3	4 7/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 7/8												6.25
4																											
5																											

STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-11B.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 219 | E

R10-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Size (1) comes as a decal only.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	6	9	1 1/8	3/8	3/8	3/4	1/2	1 5/8	1 1/4	1 7/8	7/8	1 3/8	1 7/8														0.38
2S	9	12	1 1/8	3/8	3/8	1	1	1 1/2	1 3/4	2 1/2	1 1/4	1 3/4	2 3/8														0.75
2M	9	12	1 1/8	3/8	3/8	1	1	1 1/2	1 3/4	2 1/2	1 1/4	1 3/4	2 3/8														0.75
3																											
4																											
5																											

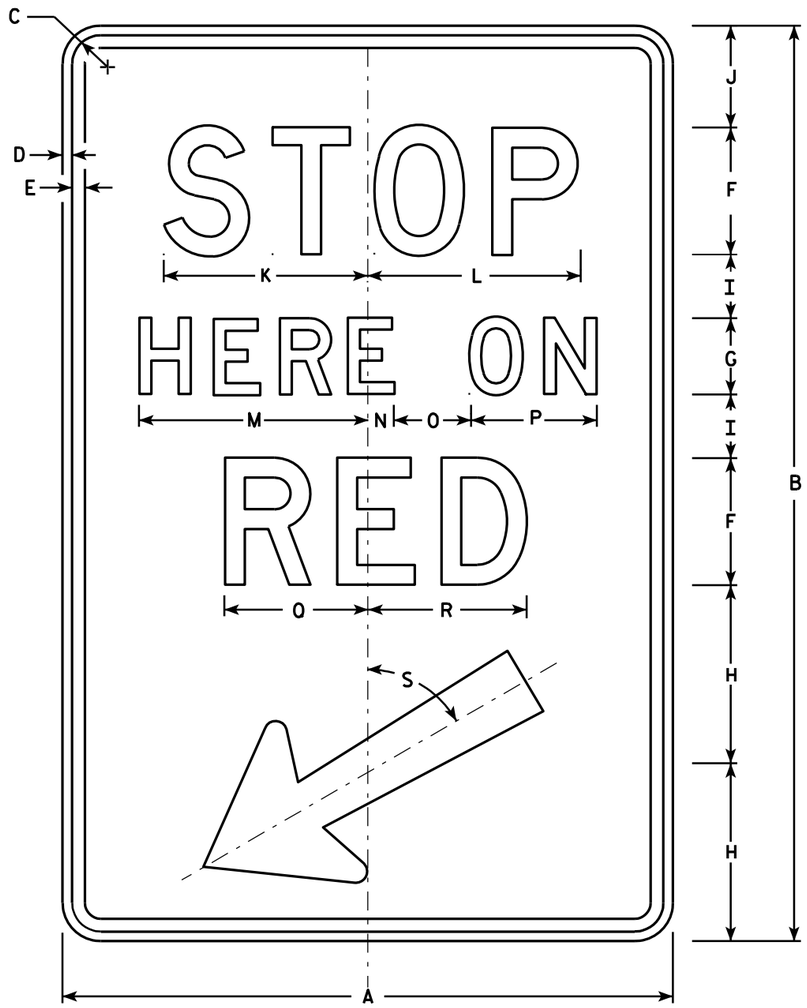
STANDARD SIGN
R10-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-4.7

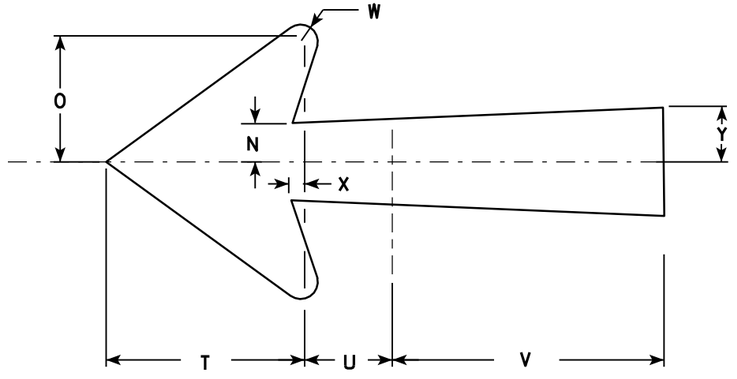
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 220	E



R10-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/8	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

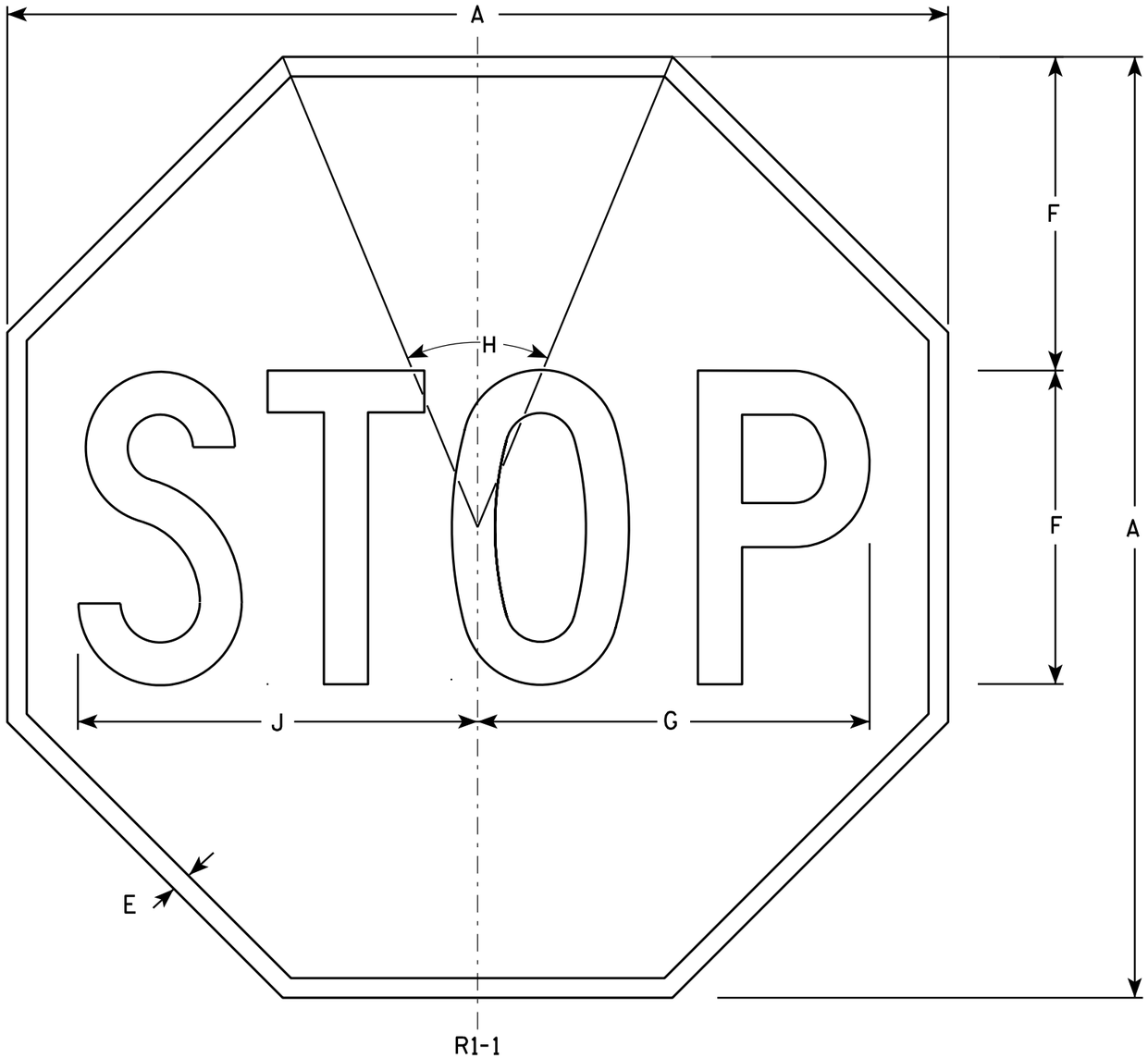
STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-6.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 221	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

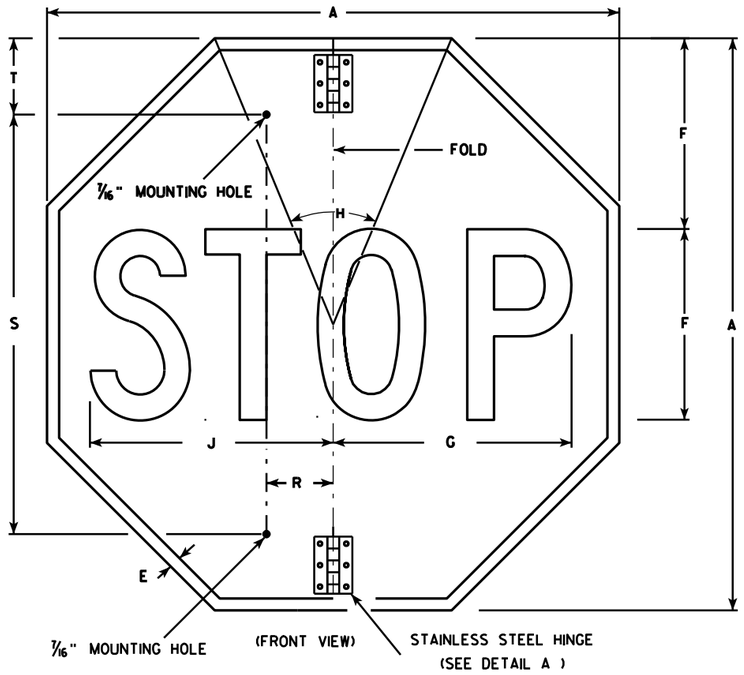
STANDARD SIGN
R1-1

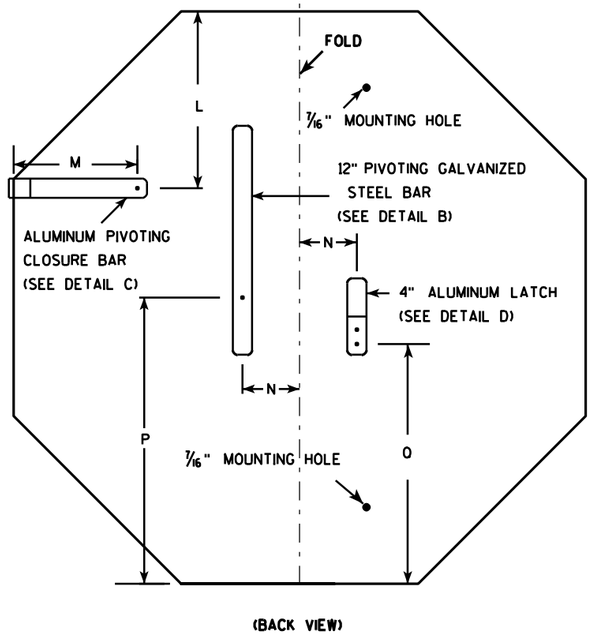
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

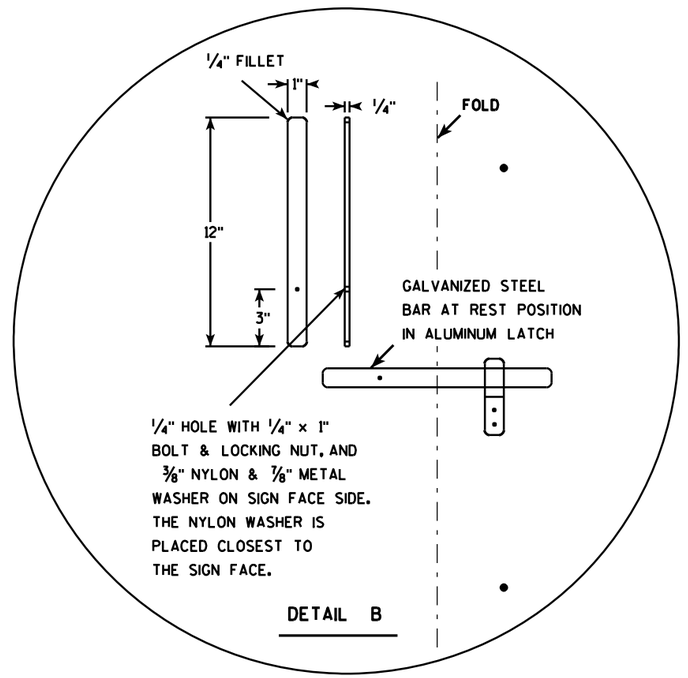
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 222	E

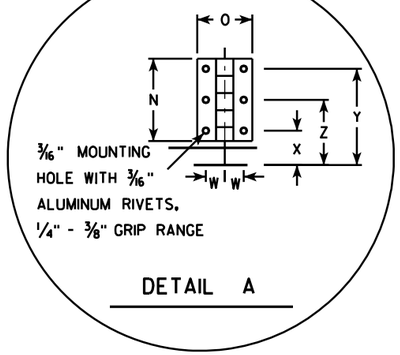


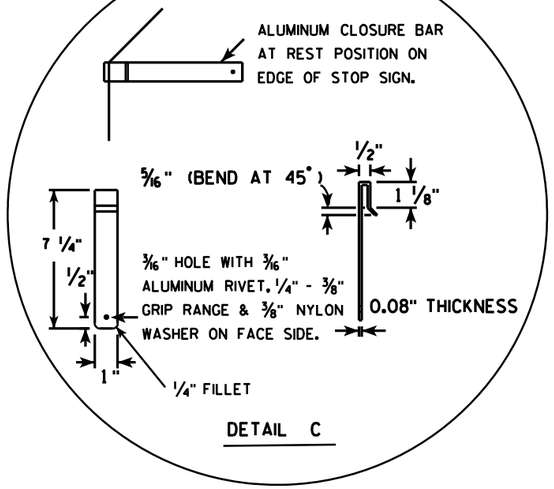


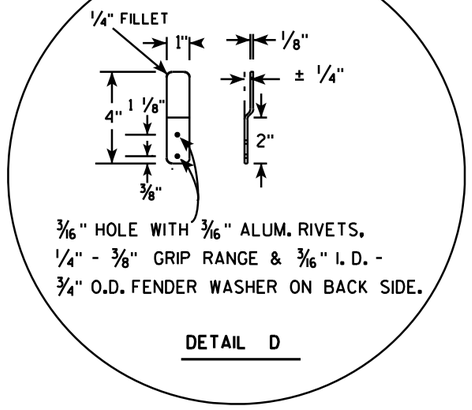
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

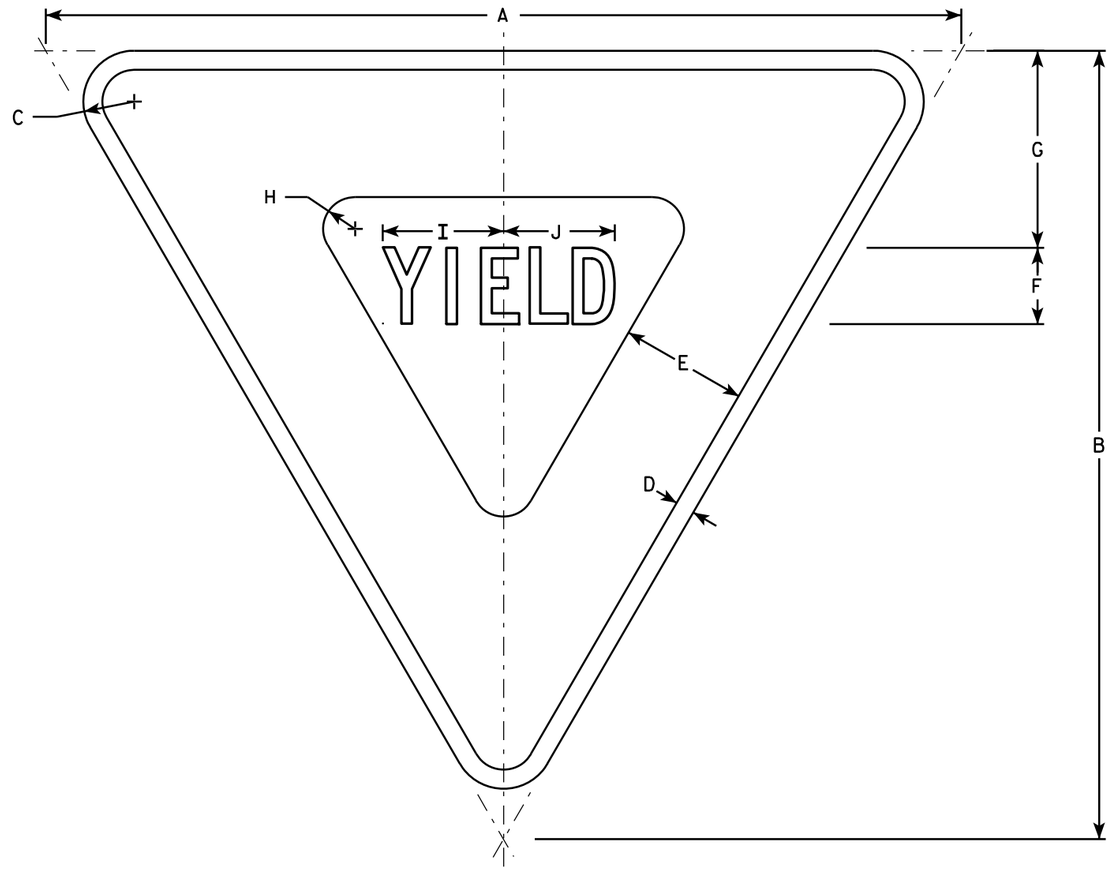
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 223	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

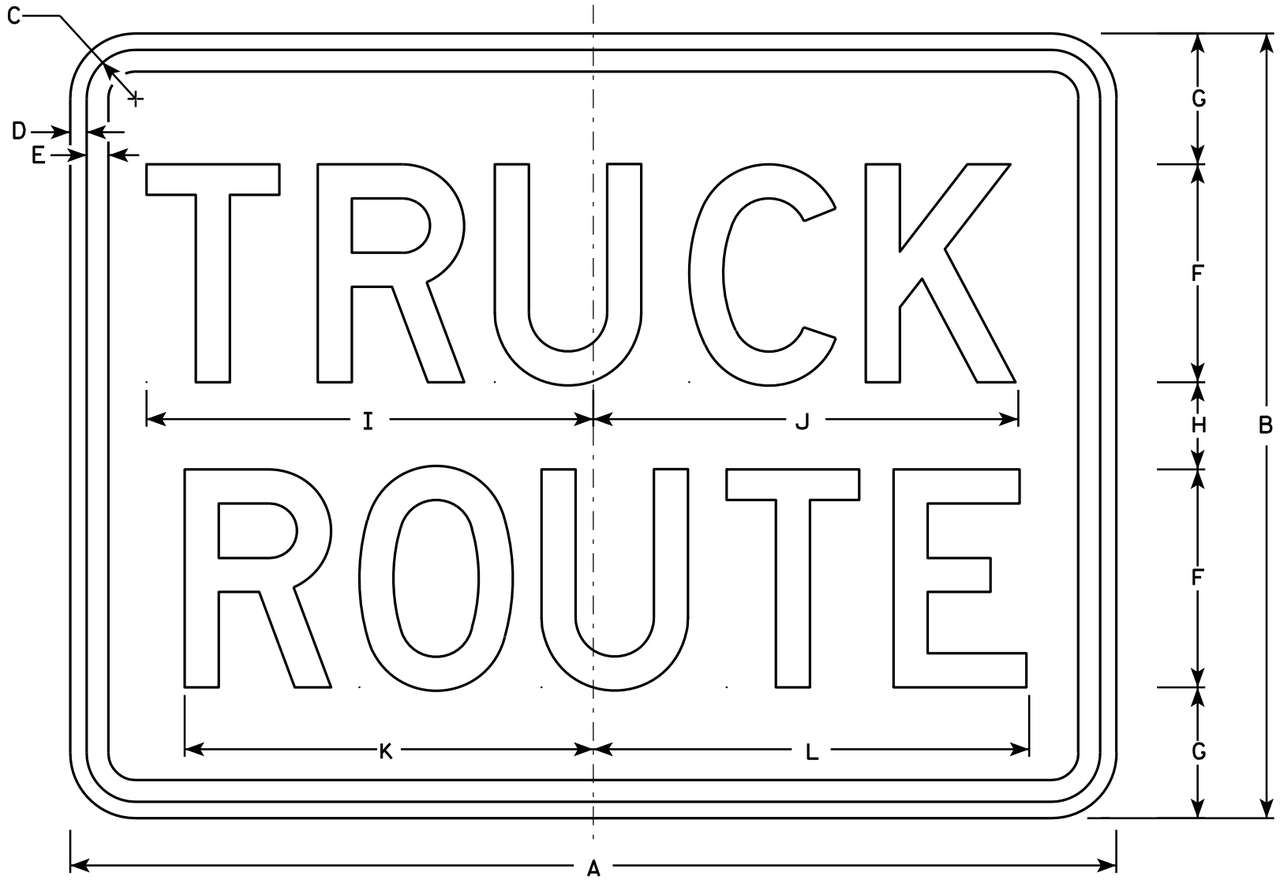
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 224 | E



R14-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
3	30	24	1 1/8	3/8	1/2	6	4	4	12 1/4	11 3/4	11 1/4	12															5.0
4																											
5																											

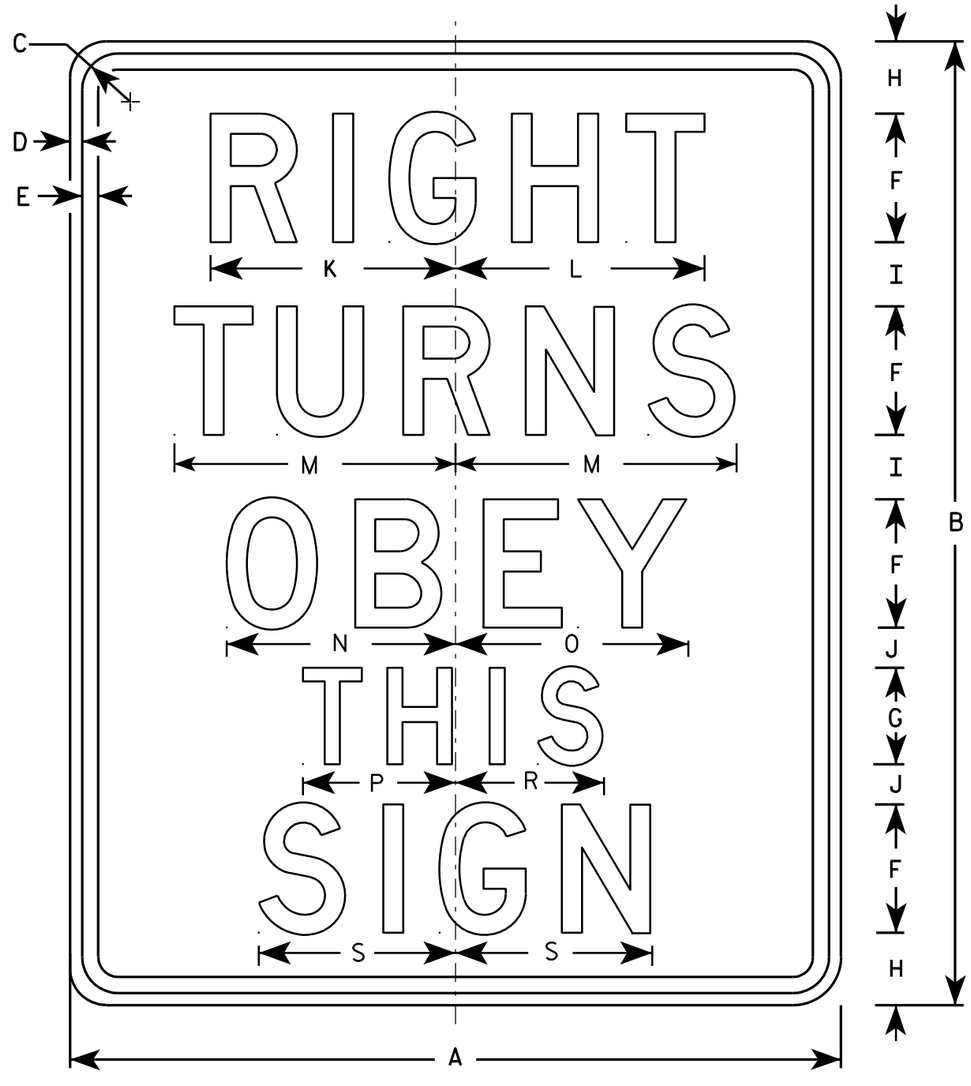
STANDARD SIGN
R14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R14-1.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 225	E



R1-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3	2 1/4	2	1 1/4	7 5/8	7 3/4	8 3/4	7 1/8	7 1/4	4 3/4		4 5/8	6 1/8								5.0
2M	24	30	1 1/8	3/8	1/2	4	3	2 1/4	2	1 1/4	7 5/8	7 3/4	8 3/4	7 1/8	7 1/4	4 3/4		4 5/8	6 1/8								5.0
3																											
4																											
5																											

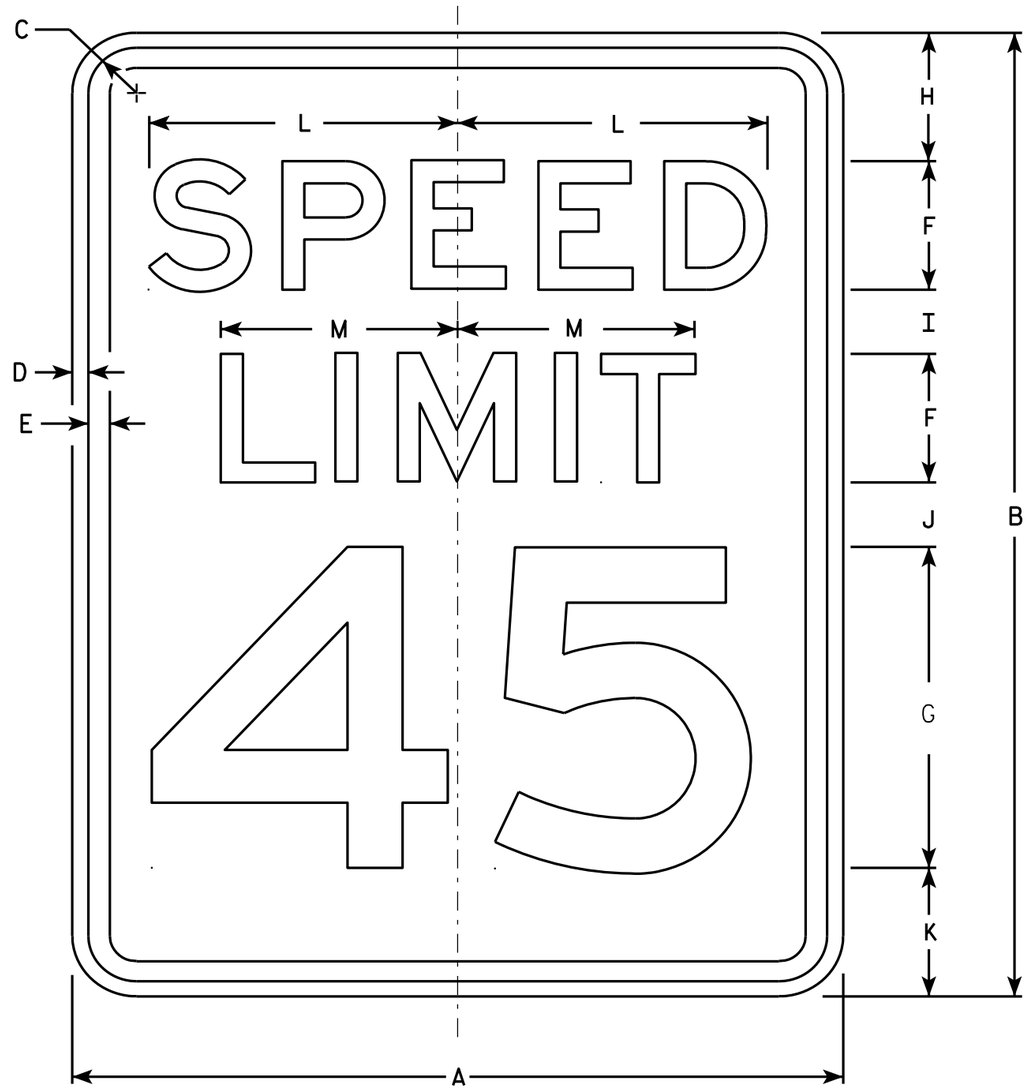
STANDARD SIGN
R1-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-53.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 226 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

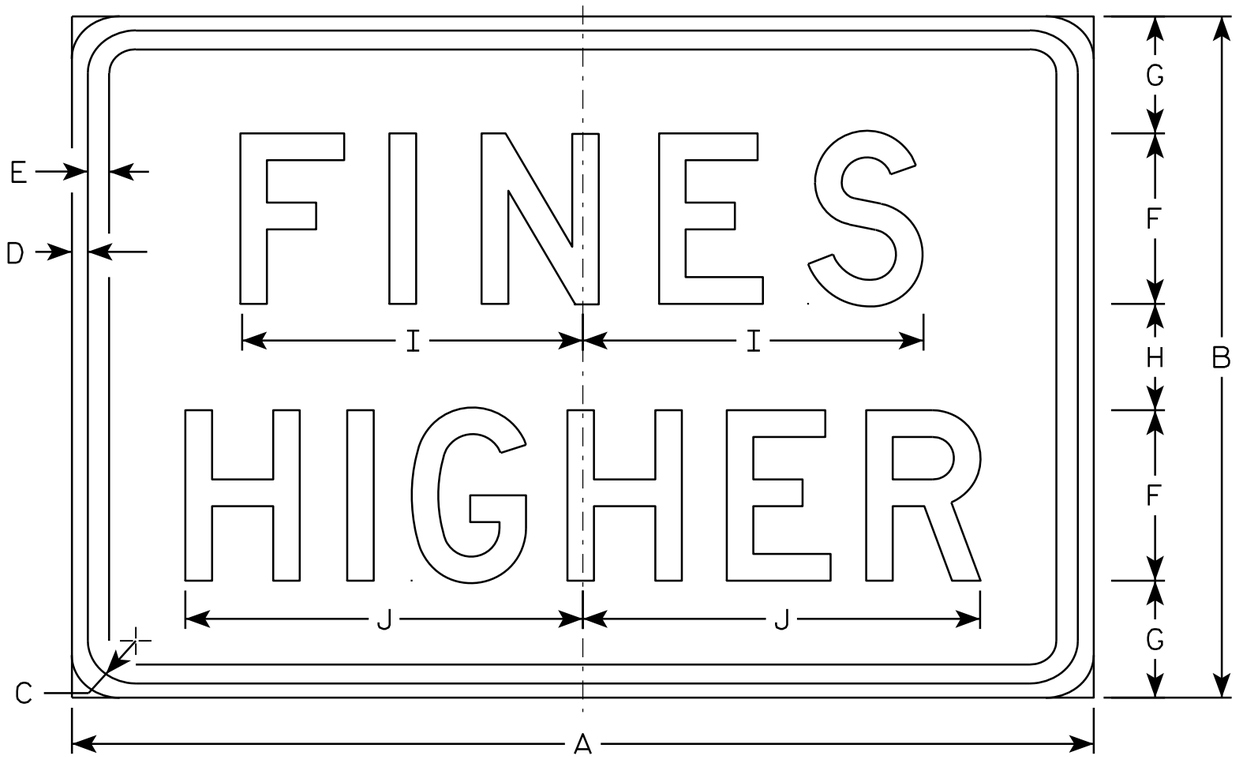
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 227	E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

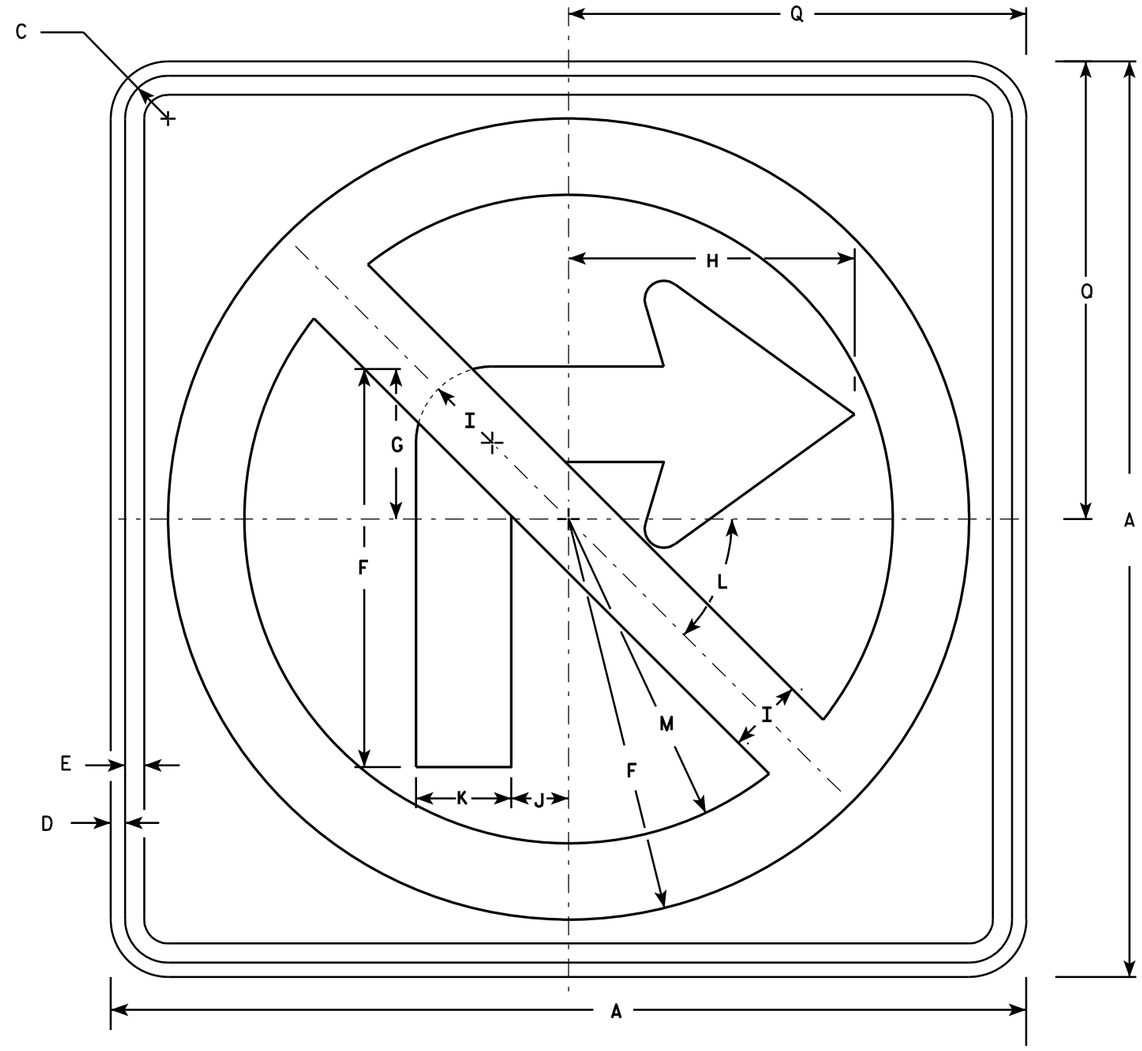
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 228 | E

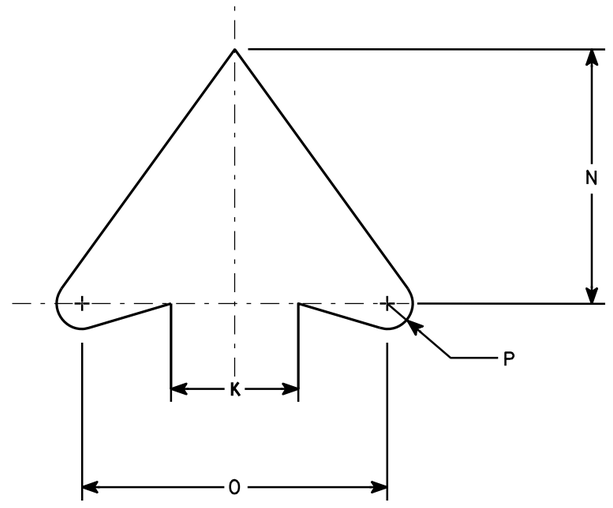
7



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

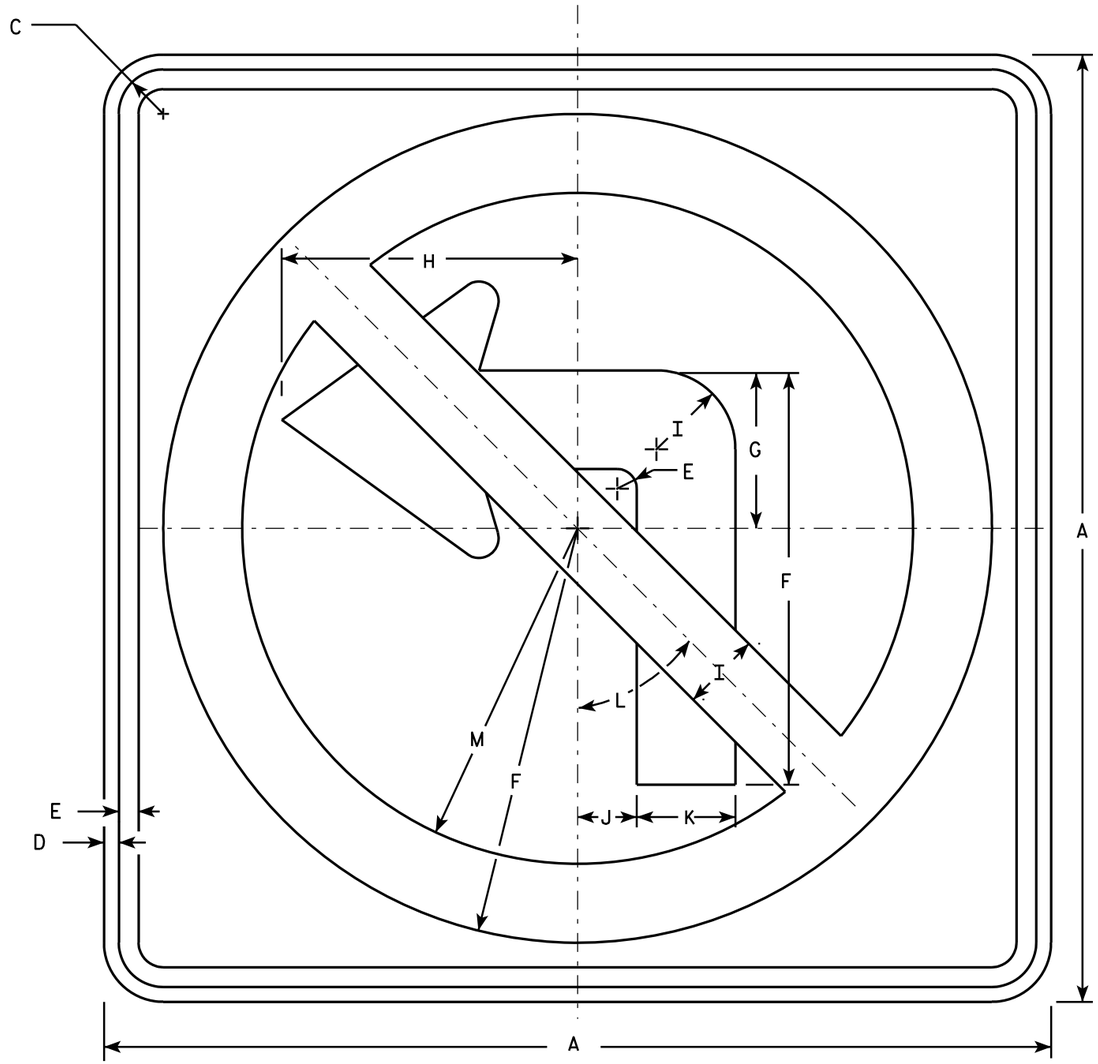
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

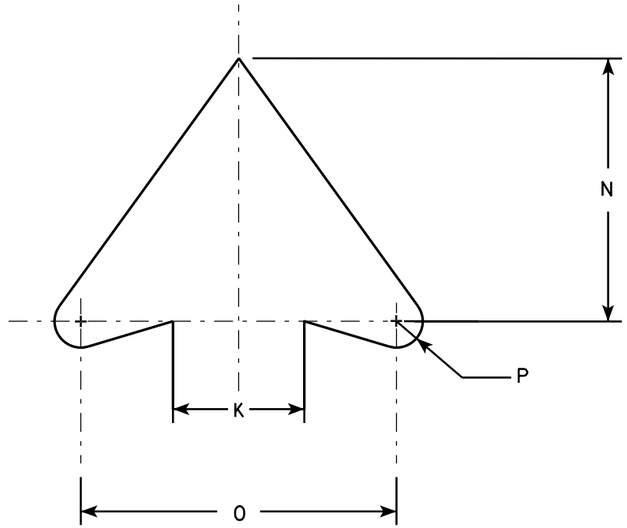
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 229	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

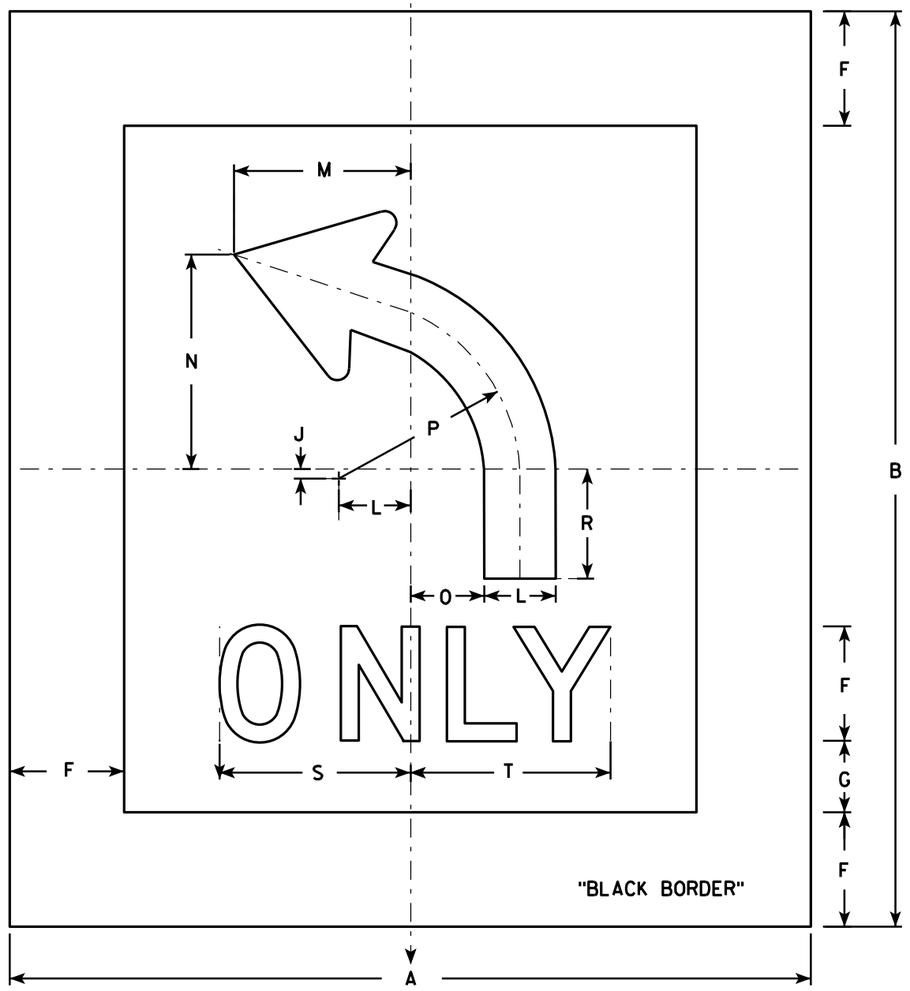
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

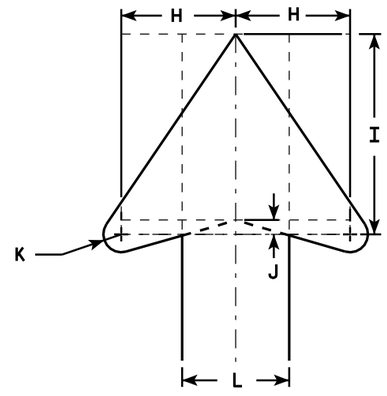
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 230	E



R3-5L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

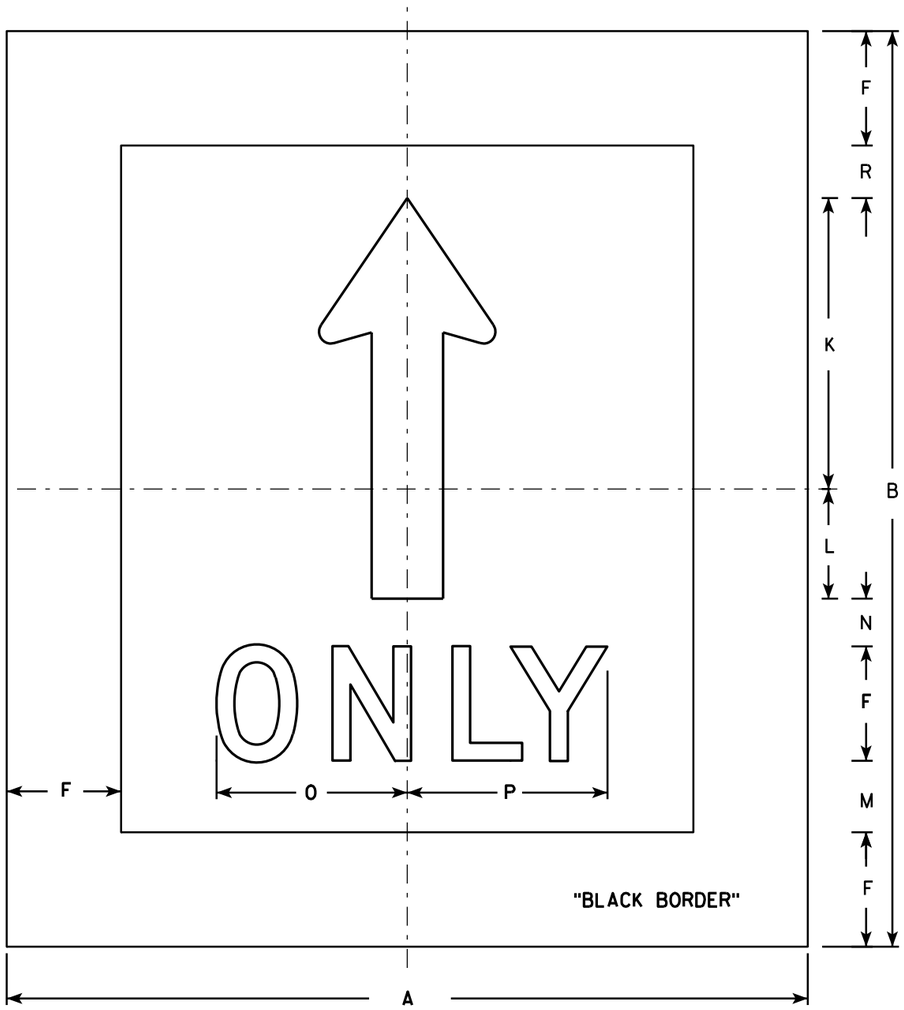
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

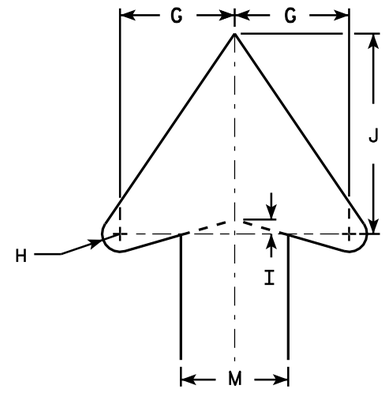
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 231 | E



R3-5A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
2M	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
3																											
4																											
5																											

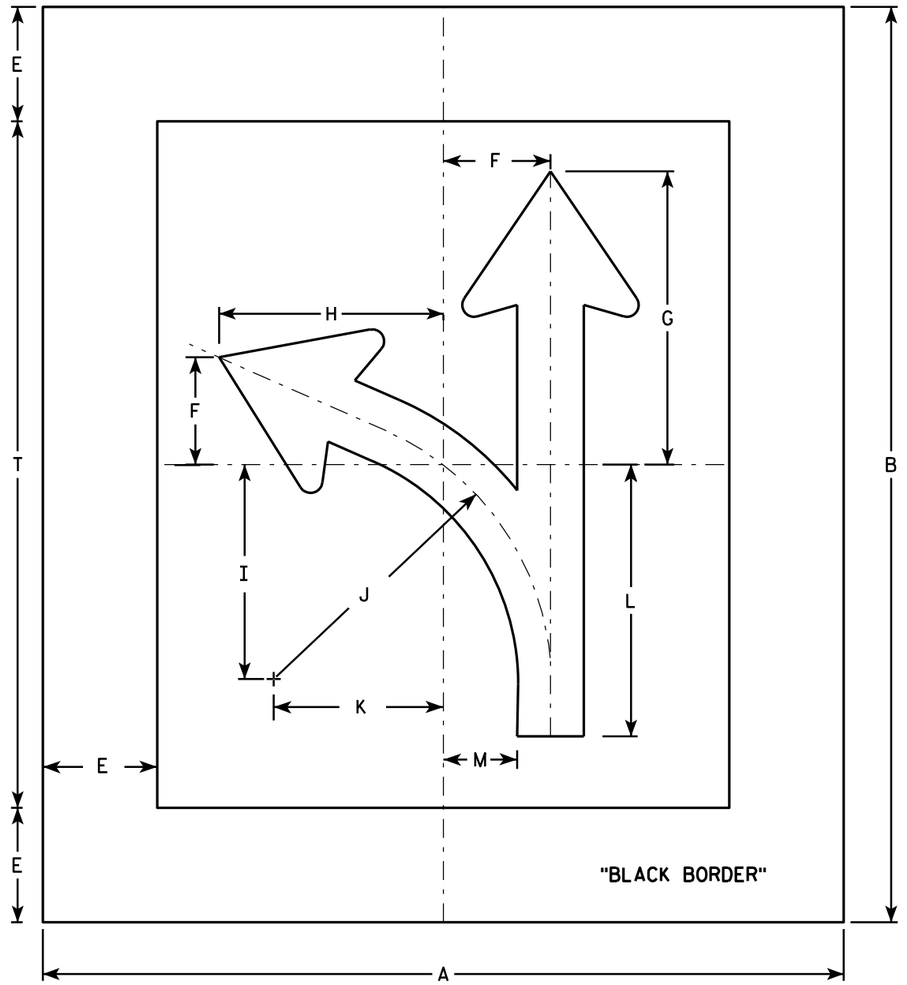
STANDARD SIGN
R3-5A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5A.5

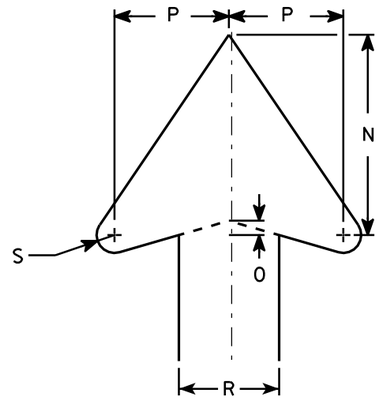
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 232	E



R3-6L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. R3-6R is the same as R3-6L except curved portion of arrow points right.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
3																											
4																											
5																											

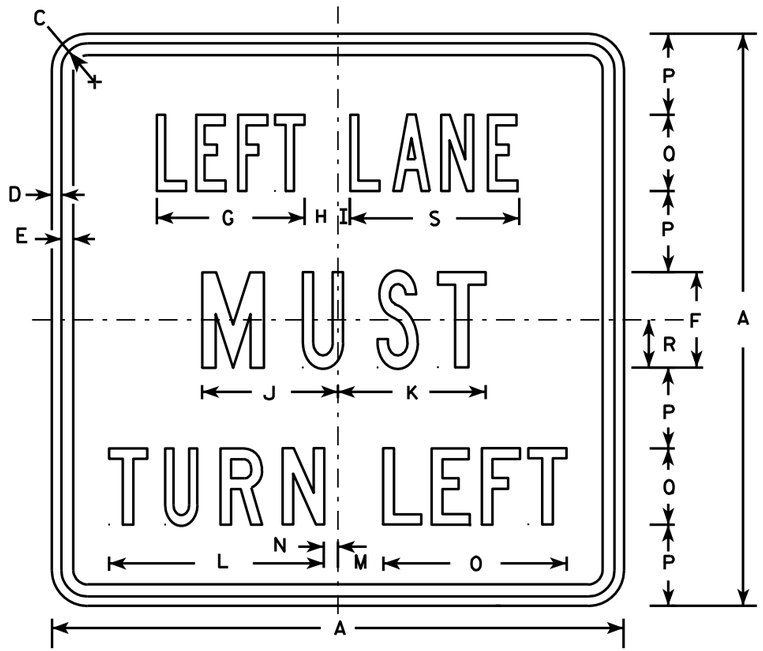
STANDARD SIGN
R3-6

WISCONSIN DEPT OF TRANSPORTATION

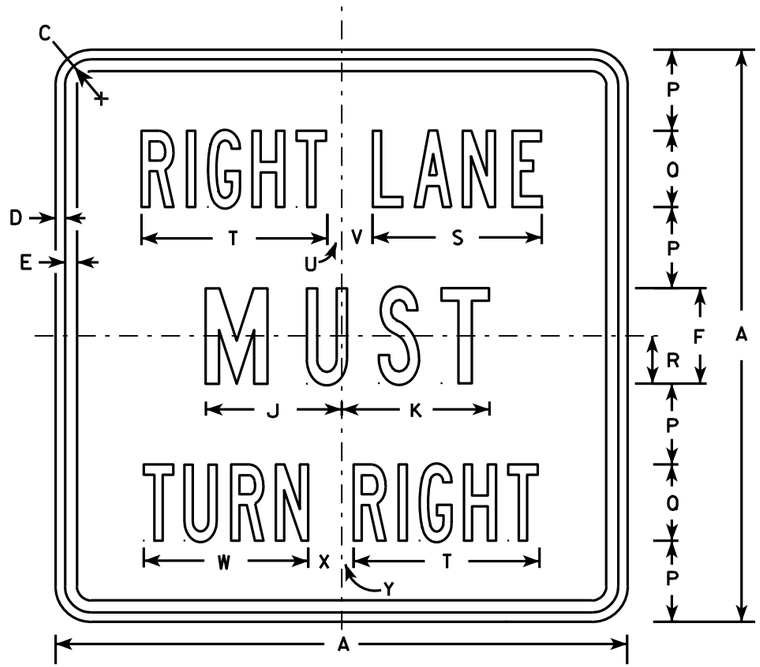
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-6.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 233 | E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

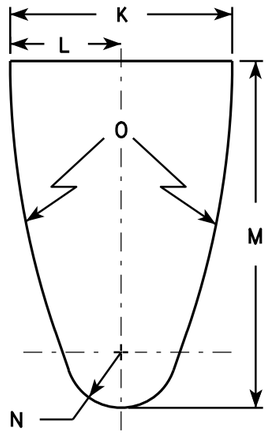
STANDARD SIGN
R3-7L & R3-7R

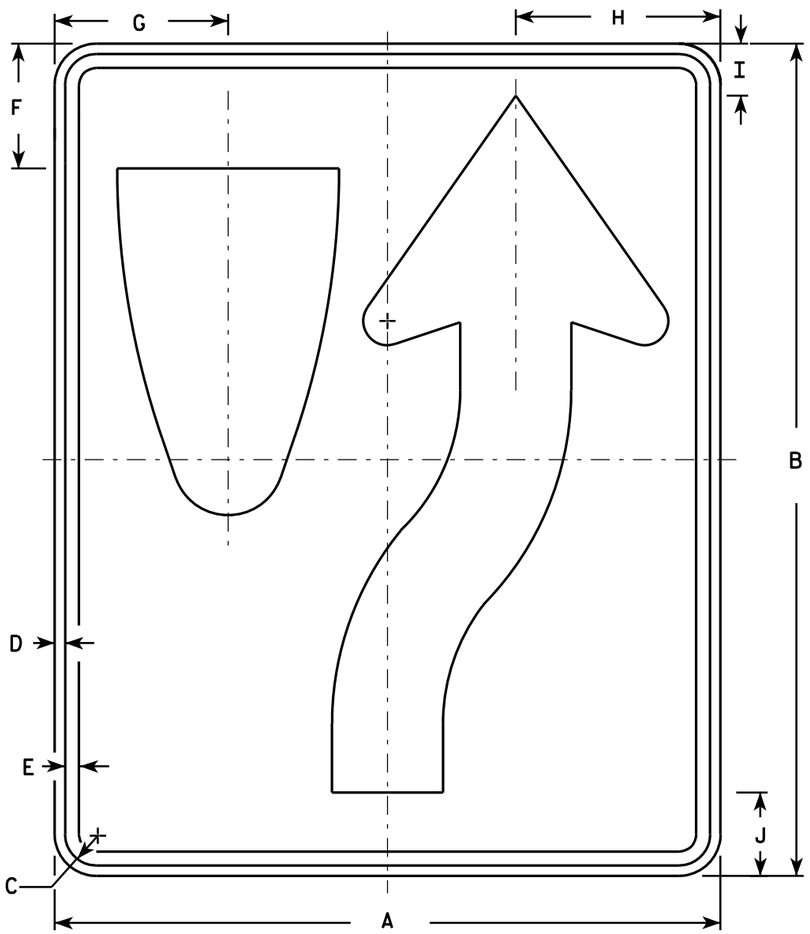
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 234 | E

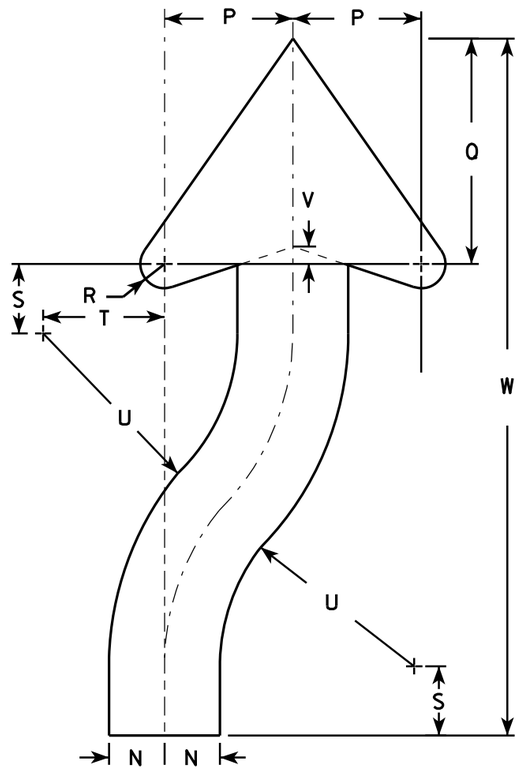




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

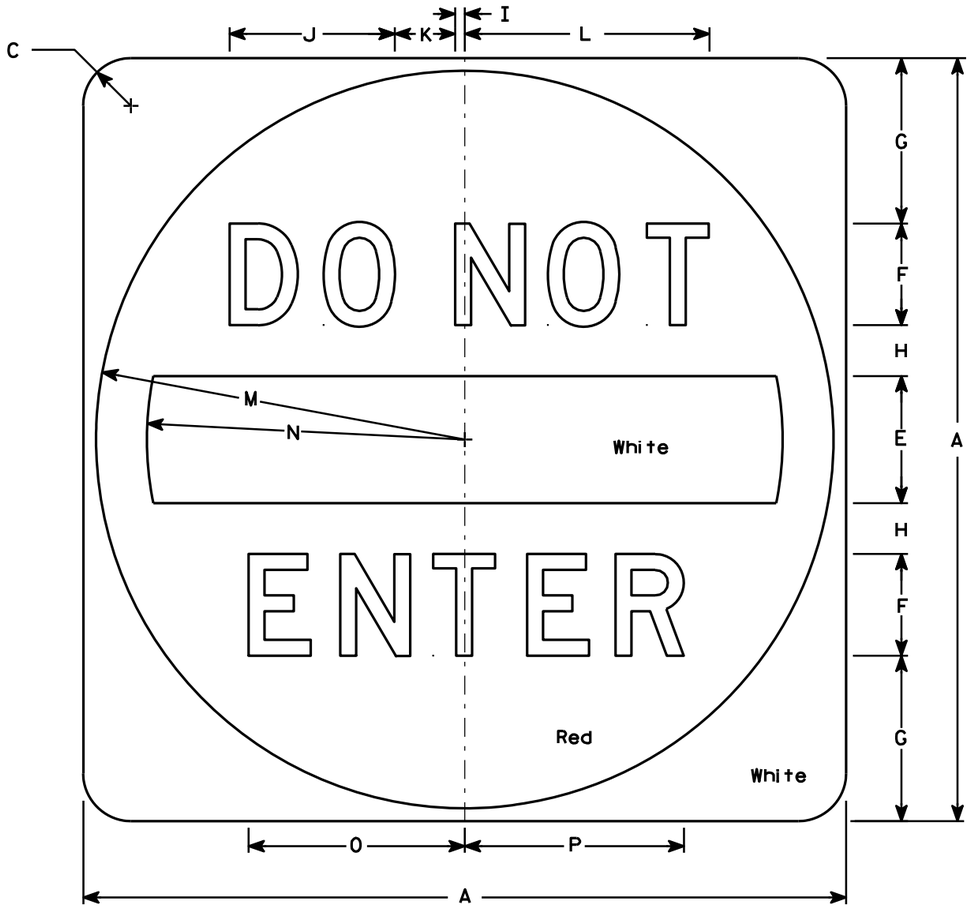
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 235	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

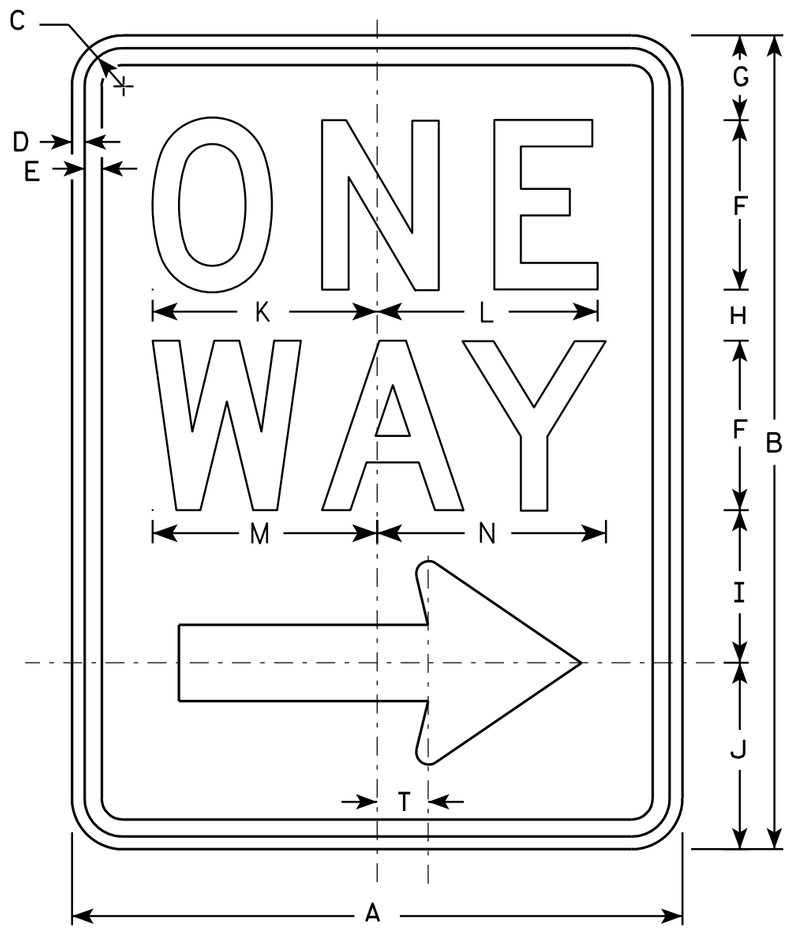
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

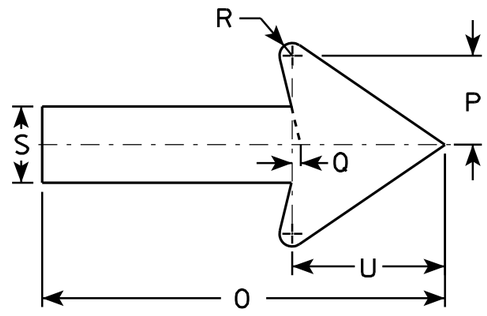
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 236 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

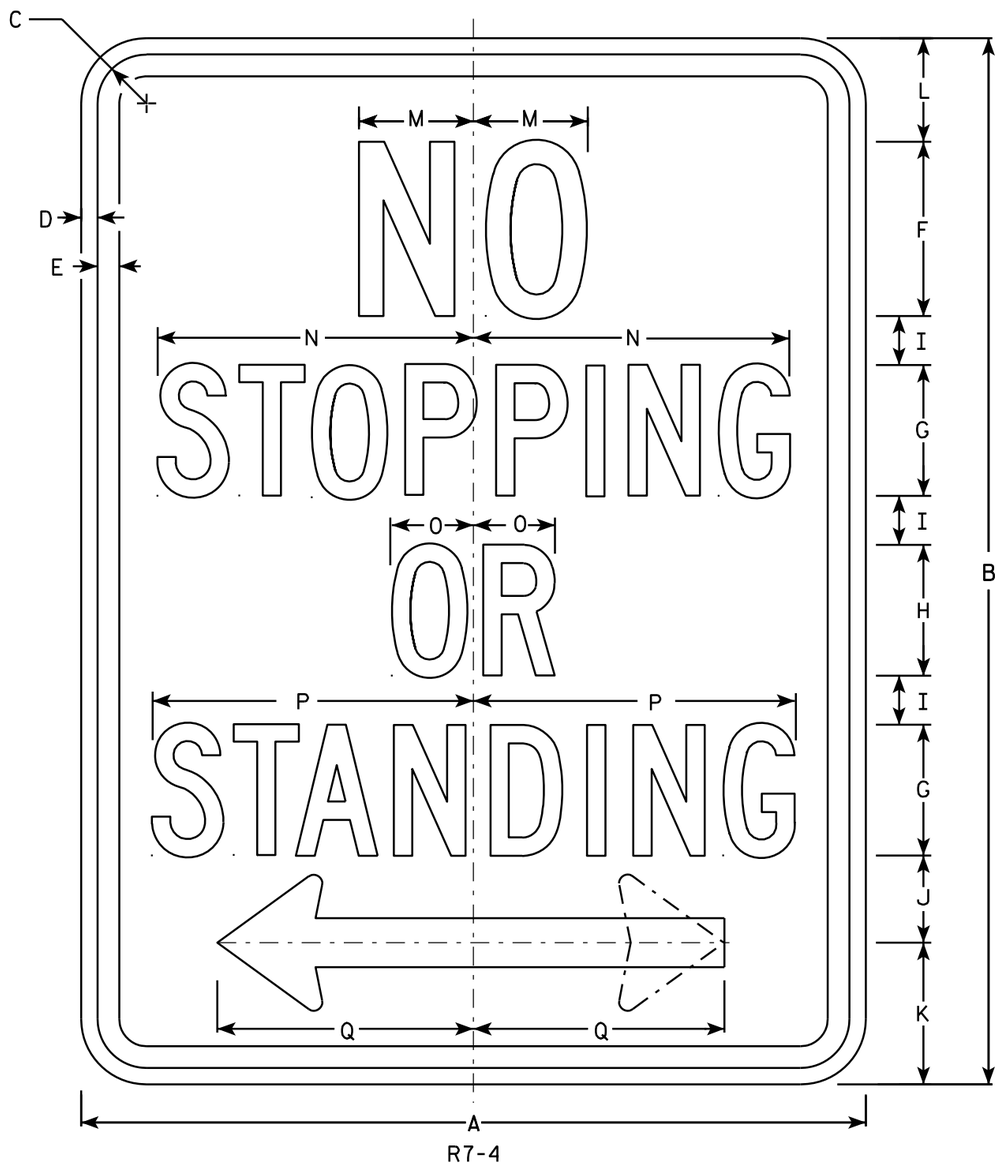
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

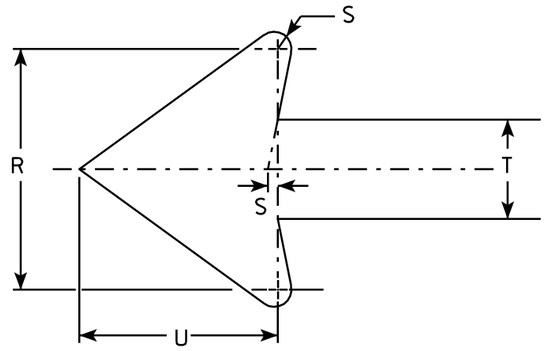
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 237	E



R7-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R7-4L (left arrow)
   R7-4R (right arrow)
   R7-4D (double arrow)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	2	2	1	1 1/2	2 1/2	2	2	4 7/8	1 1/4	4 7/8	3 7/8	1 3/4	1/8	3/4	1 1/2						1.5
2S	18	24	1 1/8	3/8	1/2	4	3	3	1 1/8	2	3 1/4	2 3/8	2 5/8	7 1/4	1 1/8	7 3/8	5 7/8	2 5/8	1/4	1 1/8	2 1/4						3.0
2M	24	30	1 1/8	3/8	1/2	5	4	3	1 1/2	3	4	2 1/2	3 3/8	10	2 1/2	10 1/4	7 3/4	3 1/2	1/4	1 1/2	3						5.0
3	24	30	1 1/8	3/8	1/2	5	4	3	1 1/2	3	4	2 1/2	3 3/8	10	2 1/2	10 1/4	7 3/4	3 1/2	1/4	1 1/2	3						5.0
4																											
5																											

STANDARD SIGN
R7-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

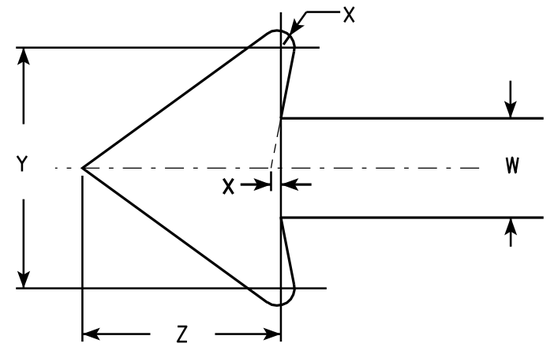
DATE 3/31/2011 PLATE NO. R7-4.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 238	E

R7-53

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-53D (double arrow)
   R7-53L (left arrow)
   R7-53R (right arrow)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 5/8	1 3/4	1/4	4 1/2	2 3/8	3 7/8	3/4	1/8	1 3/4	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	3 3/8	1 1/2	5/8	5 3/8	3	5 7/8	1 1/8	1/4	2 5/8	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
4																											
5																											

STANDARD SIGN
R7-53

WISCONSIN DEPT OF TRANSPORTATION

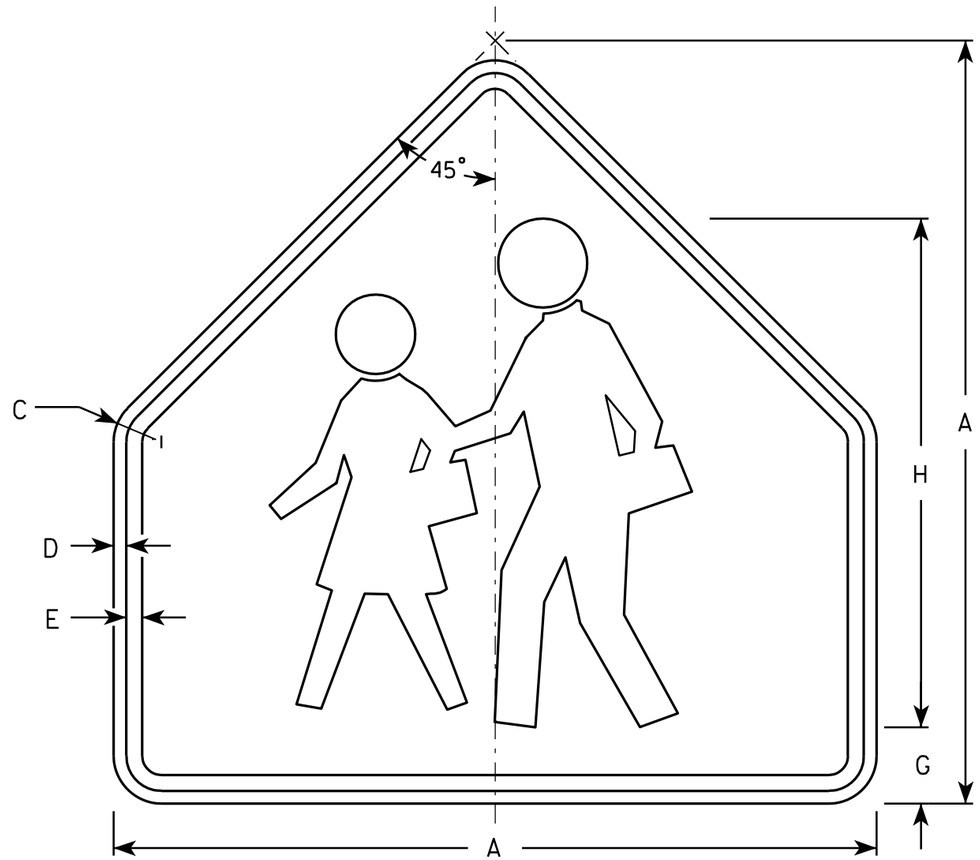
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-53.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 239	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R753.DGN PLOT DATE : 31-MAR-2011 13:28 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

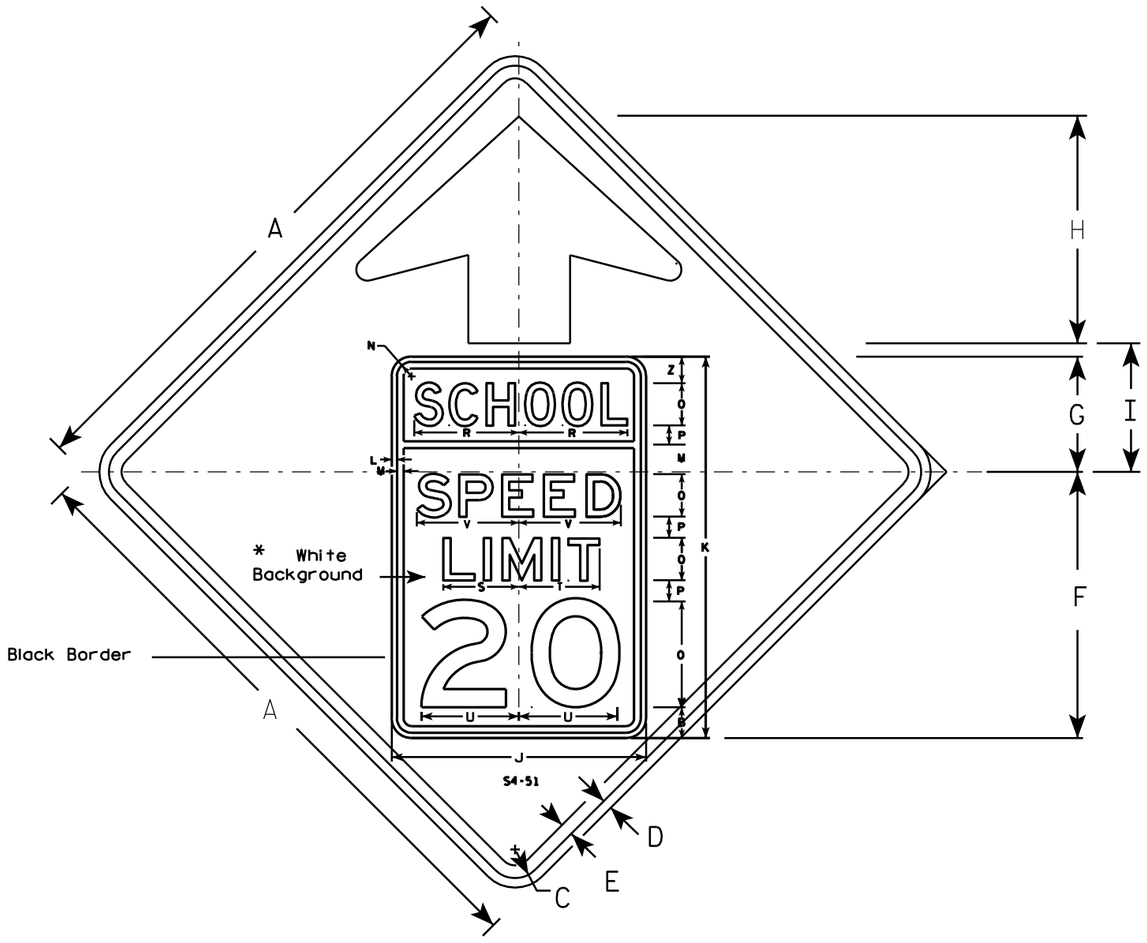
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

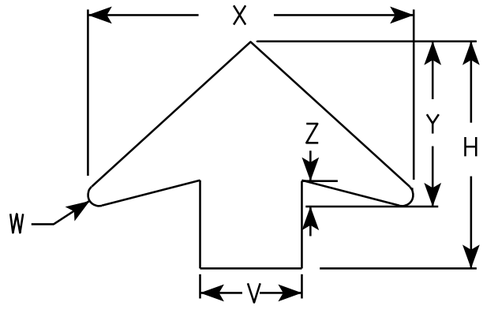
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	E



S4-5

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: See Note 5
   Background - Flourescent Yellow Green
   Message - BLACK
3. Message Series - See note 6
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance
5. SCHOOL background - Yellow Green -Type F Reflective.
   Speed Limit panel background - White -Type H Reflective.
6. From top to bottom:
   School is series D
   All other lines are series E
7. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	36	1 7/8	1 5/8	5/8	3/4	15 3/4	6 3/4	13 3/8	7 5/8	15	22 1/2	1/4	3/8	7/8	6 1/4	1 1/4	2 1/2	6 3/8	4 1/2	4 3/4	5 3/4	6	5/8	19 1/4	9 3/4	1 5/8	9.0
3	48	2 3/8	2 1/4	3/4	1	18 3/4	10 1/8	17 7/8	10 1/8	20	30	3/8	1/2	1 1/8	8 3/8	1 5/8	3 3/8	8 1/2	5 7/8	6 3/8	7 3/4	8	7/8	25 5/8	13	2	16.0
4	48	2 3/8	2 1/4	3/4	1	18 3/4	10 1/8	17 7/8	10 1/8	20	30	3/8	1/2	1 1/8	8 3/8	1 5/8	3 3/8	8 1/2	5 7/8	6 3/8	7 3/4	8	7/8	25 5/8	13	2	16.0
5																											

STANDARD SIGN
S4-5

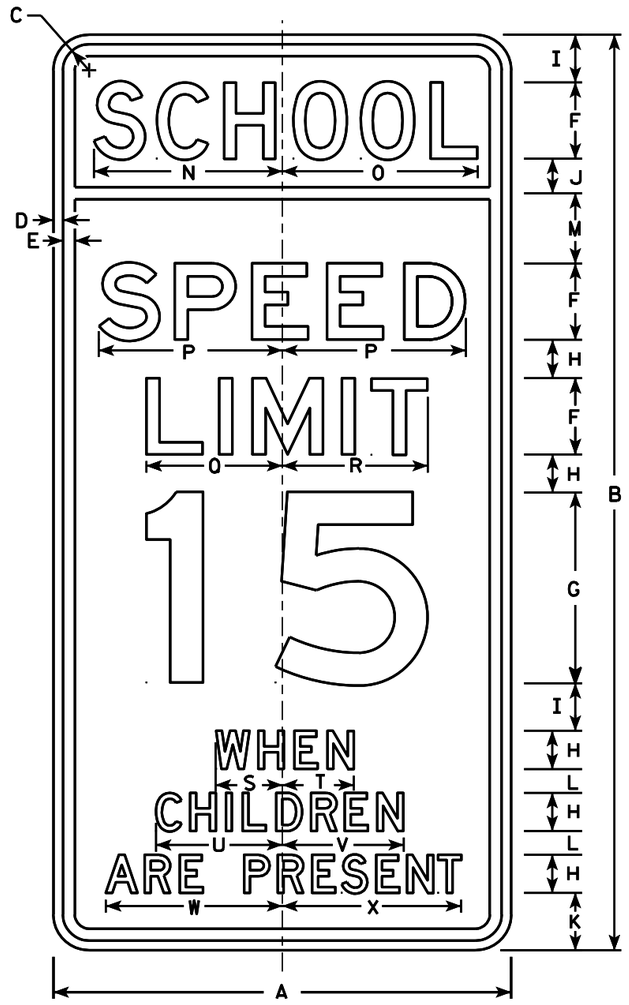
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/21/10 PLATE NO. S4-5.3

PROJECT NO:

SHEET NO: 241 E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

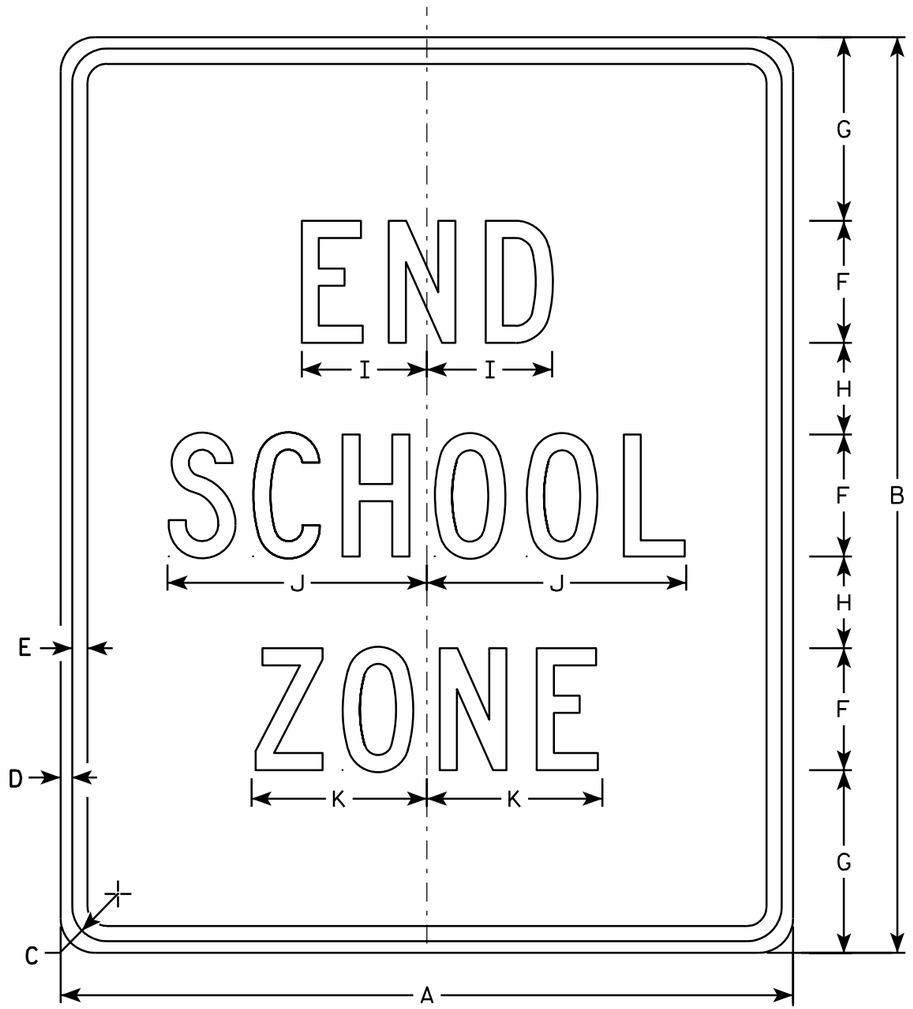
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 242 | E



S5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

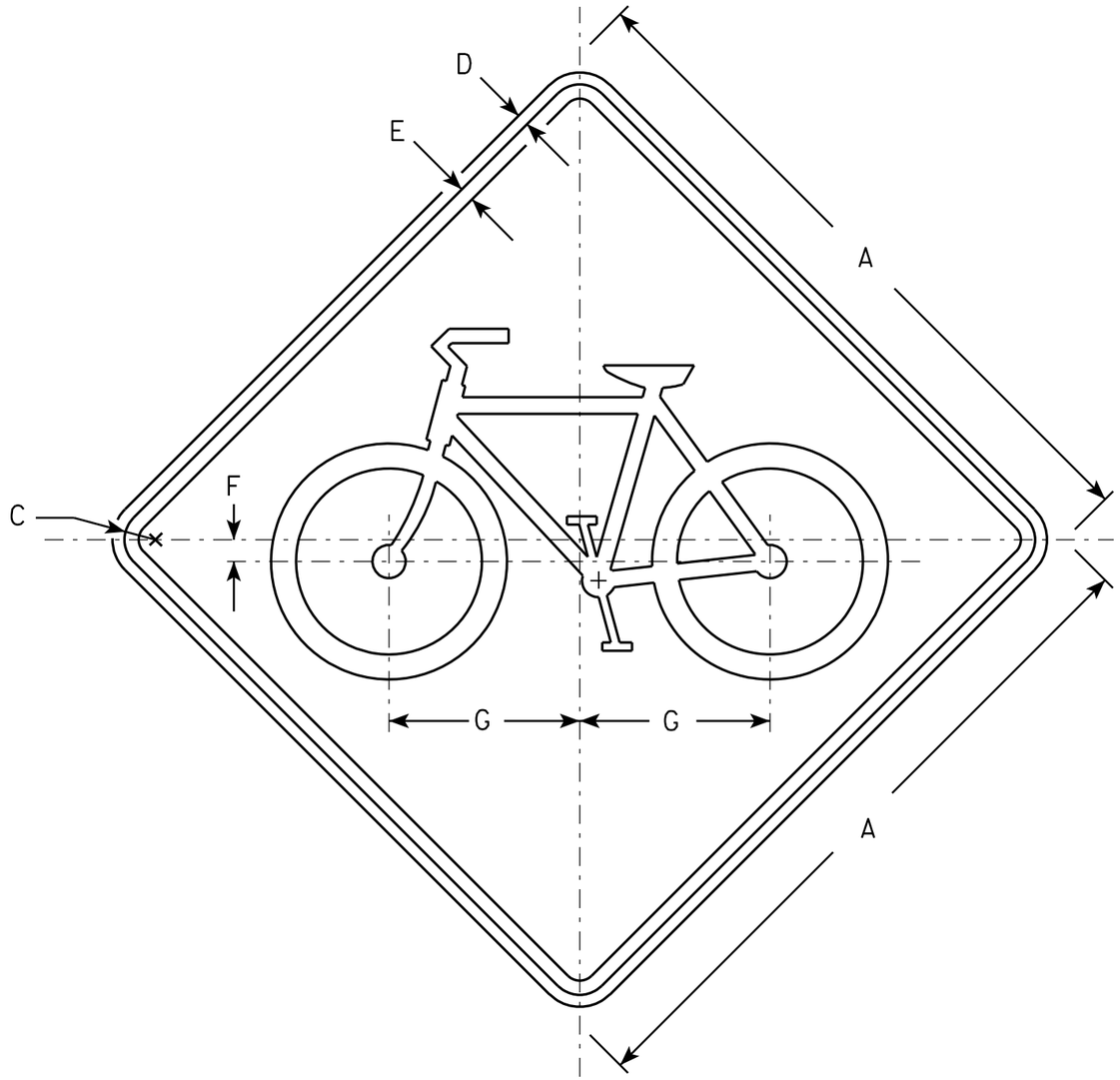
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 | E



W11-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/4	1/2	3/4	6 5/8																				4.0
2S	30		1 3/8	1/2	5/8	1	8 1/2																				6.25
2M	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
3	36		1 5/8	5/8	3/4	1 1/4	10																				9.0
4	48		2 1/4	3/4	1	1 5/8	13 3/8																				16.0
5																											16.0

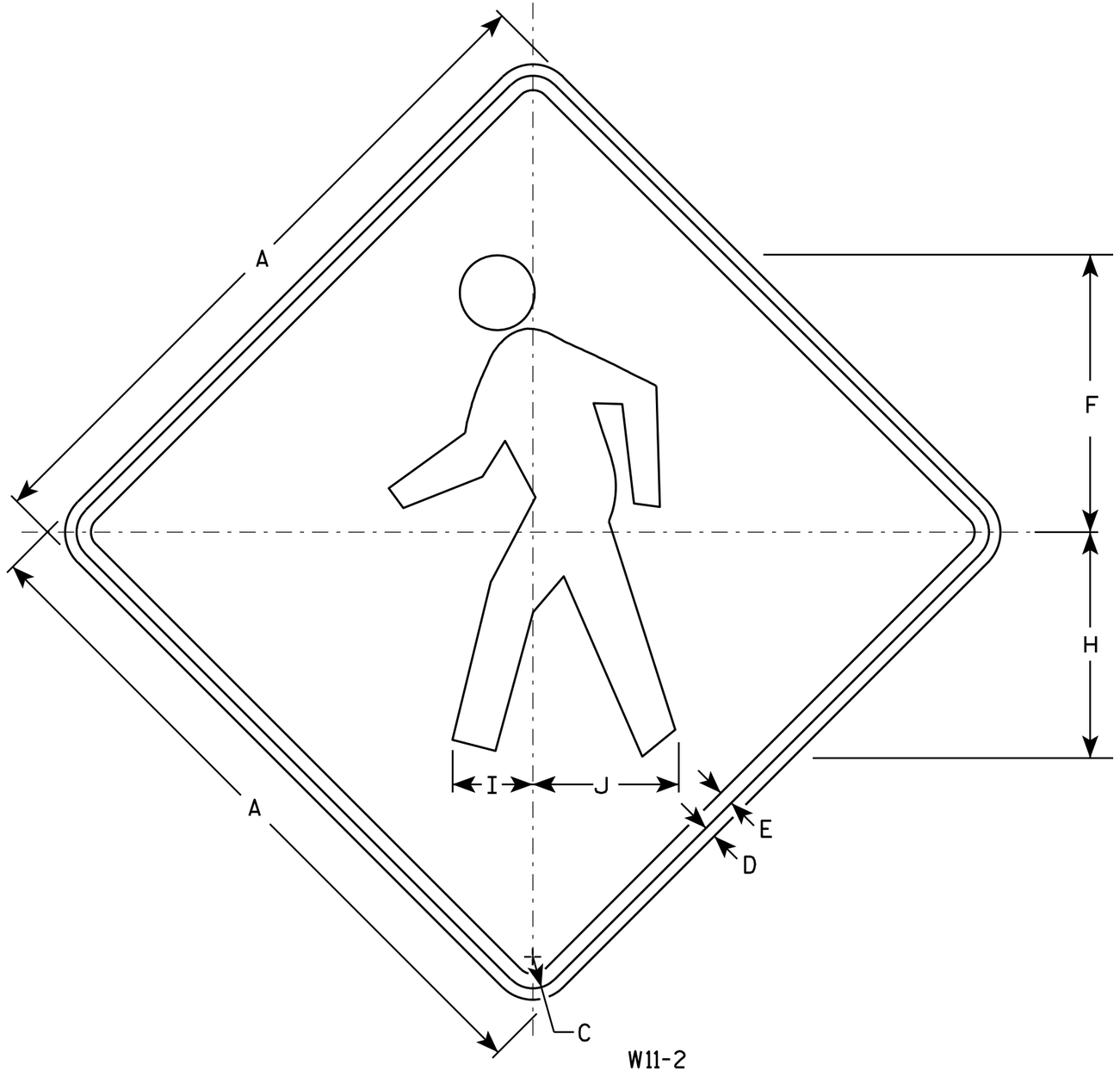
STANDARD SIGN
W11-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/21/10 PLATE NO. W11-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 244 | E



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

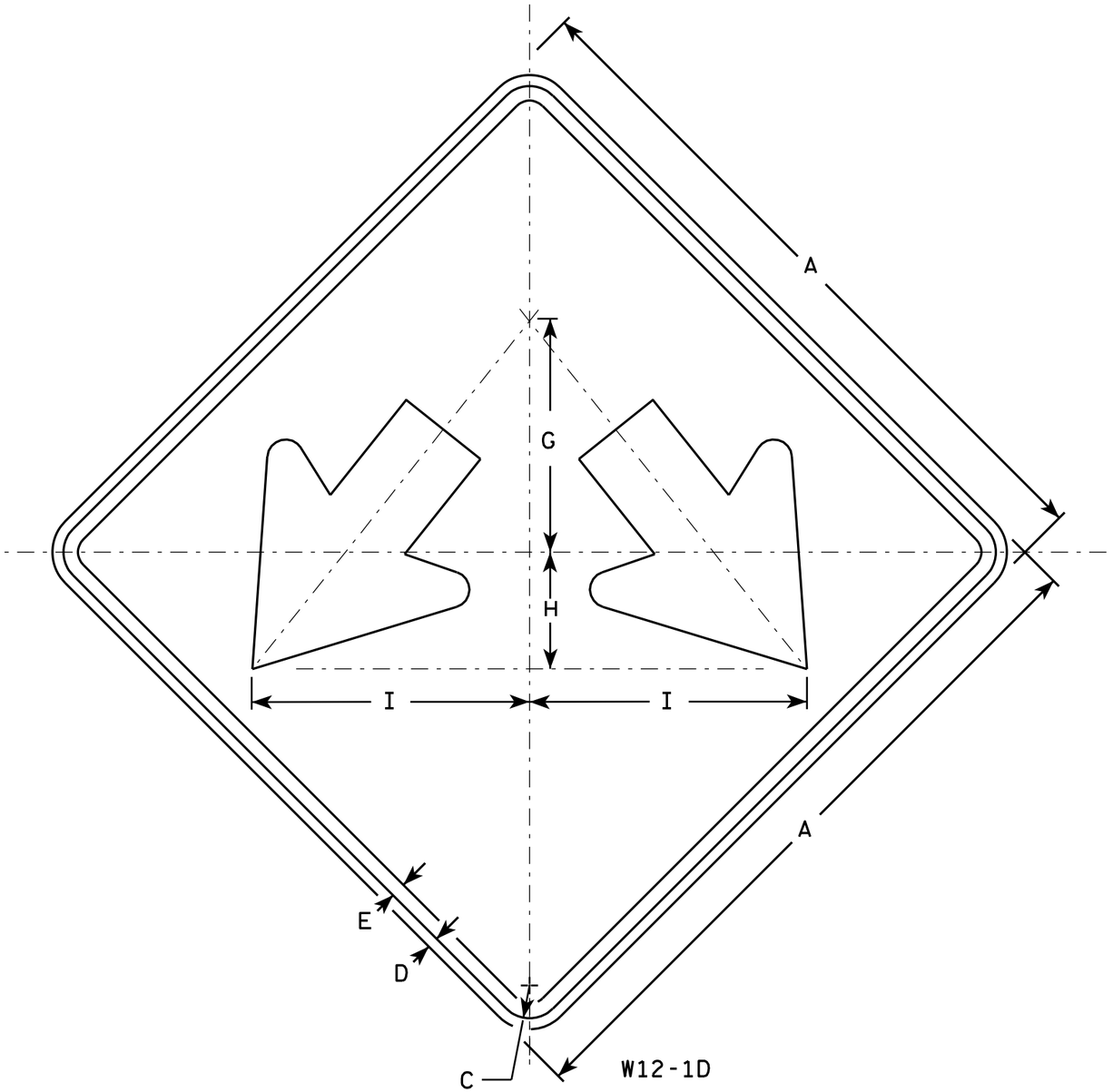
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

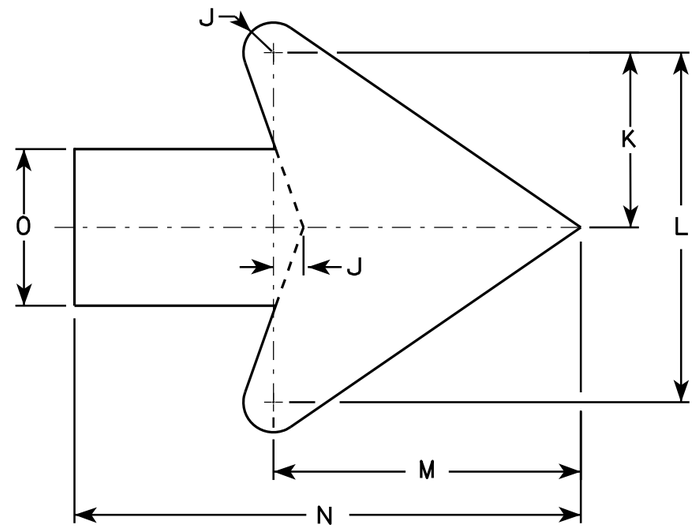
DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 245	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

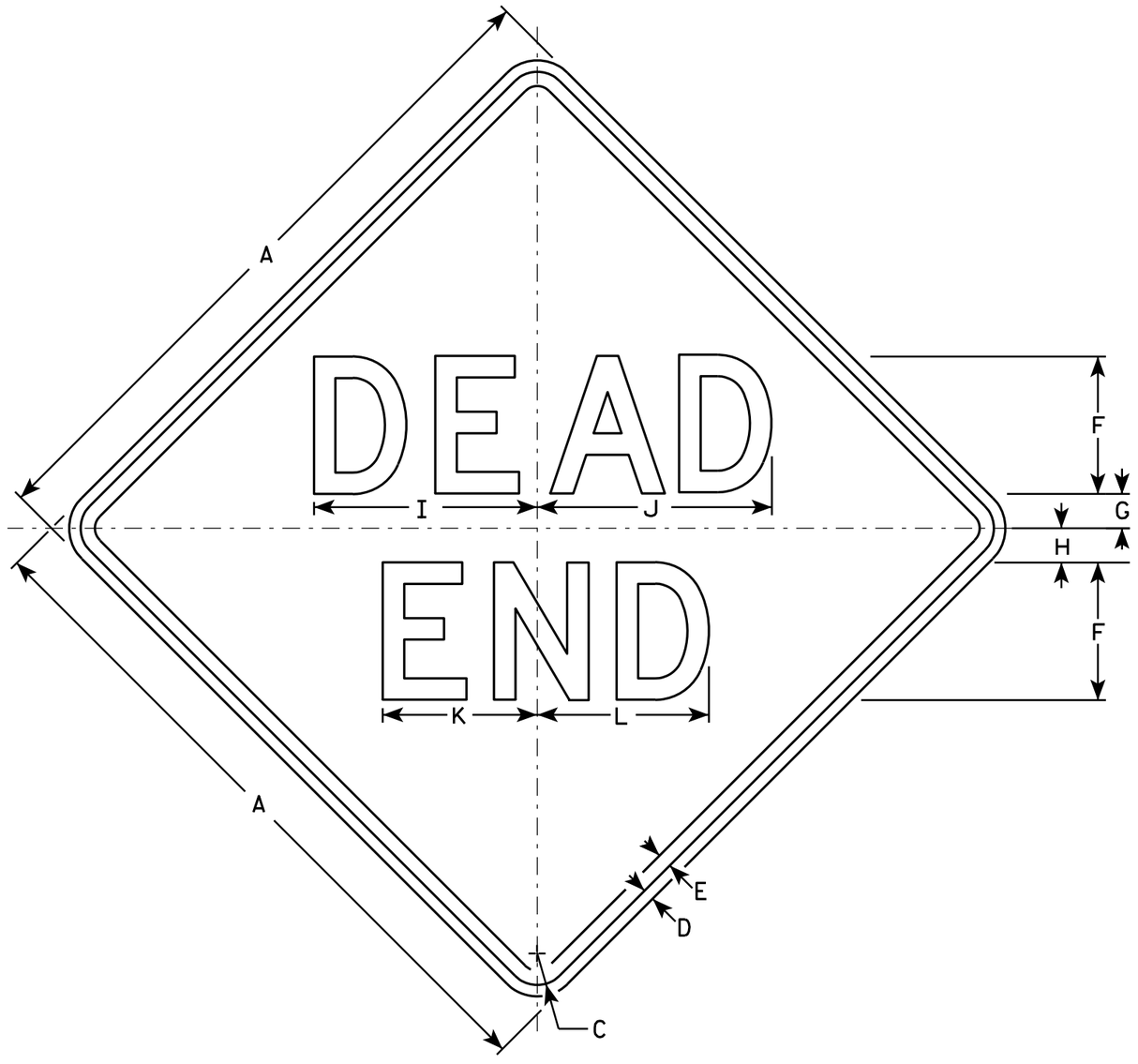
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 246	E



W14-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

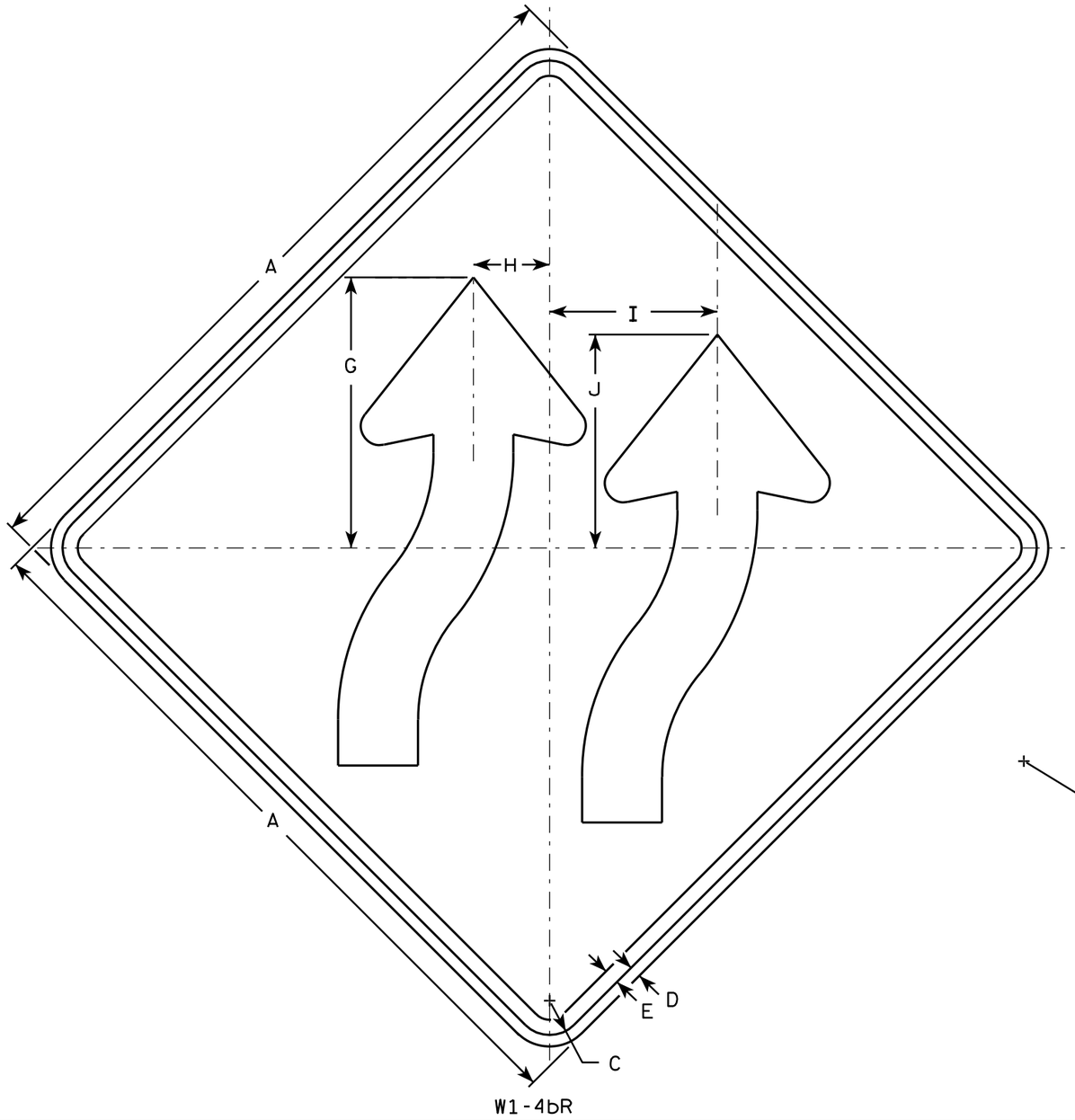
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 247	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W141.DGN PLOT DATE : 13-MAR-2013 13:30 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.202372:1.000000

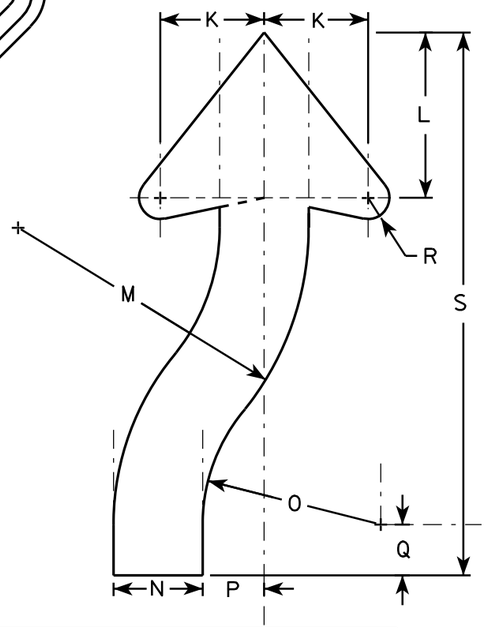
WISDOT/CADDS SHEET 42

7

7



W1-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-4bL is the same as W14-bR exept arrows are reversed along the vertical centerline

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2M	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

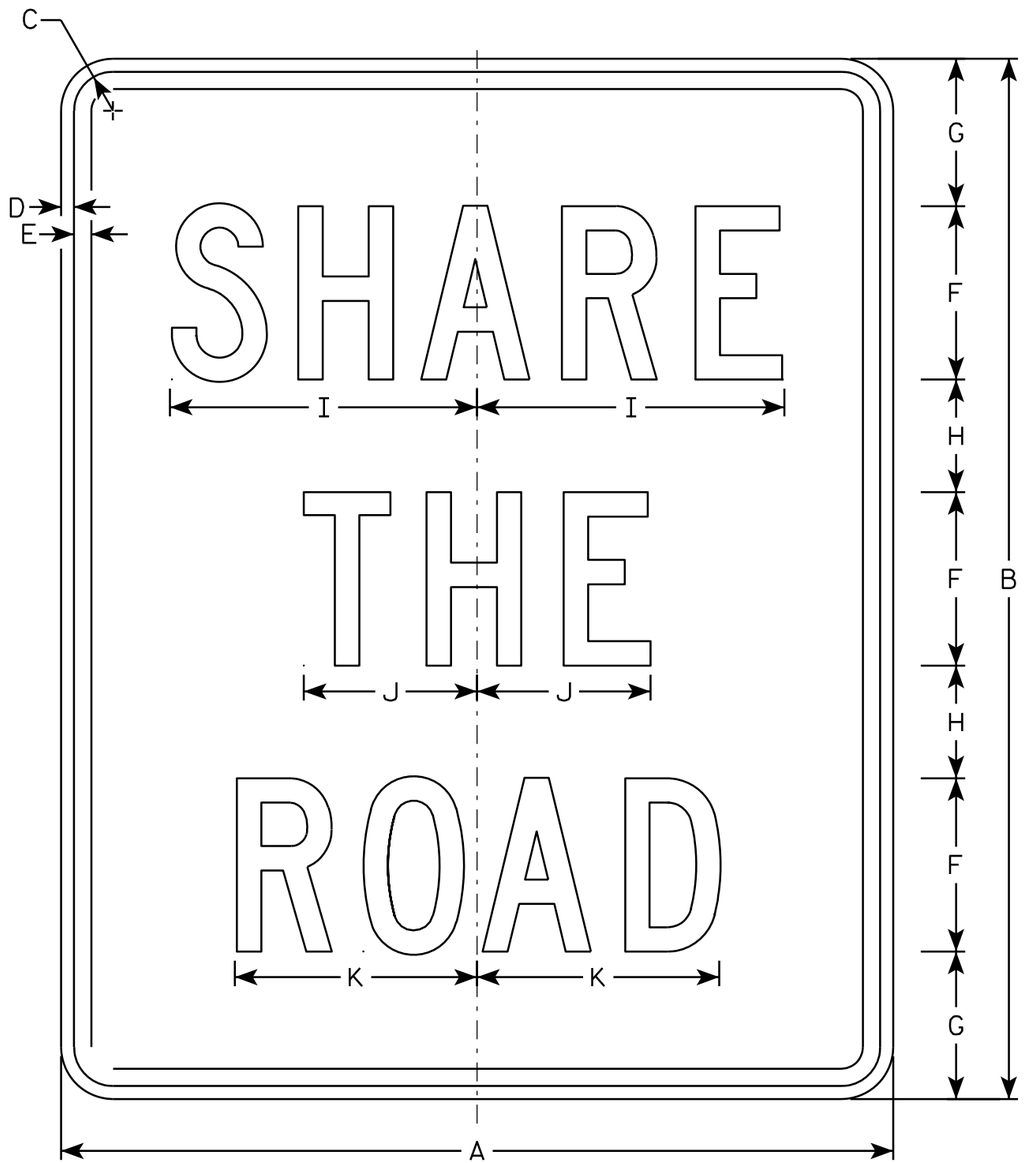
STANDARD SIGN
W1-4b

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/12 PLATE NO. W1-4B.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 248	E



W16-1P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	18	24	1 1/8	3/8	1/2	4	3 3/8	2 5/8	6 5/8	3 3/4	5 3/8																3.0
2M	18	24	1 1/8	3/8	1/2	4	3 3/8	2 5/8	6 5/8	3 3/4	5 3/8																3.0
3	24	30	1 1/8	3/8	1/2	5	4 1/4	3 1/4	8 7/8	5	7																5.0
4	24	30	1 1/8	3/8	1/2	5	4 1/4	3 1/4	8 7/8	5	7																5.0
5																											

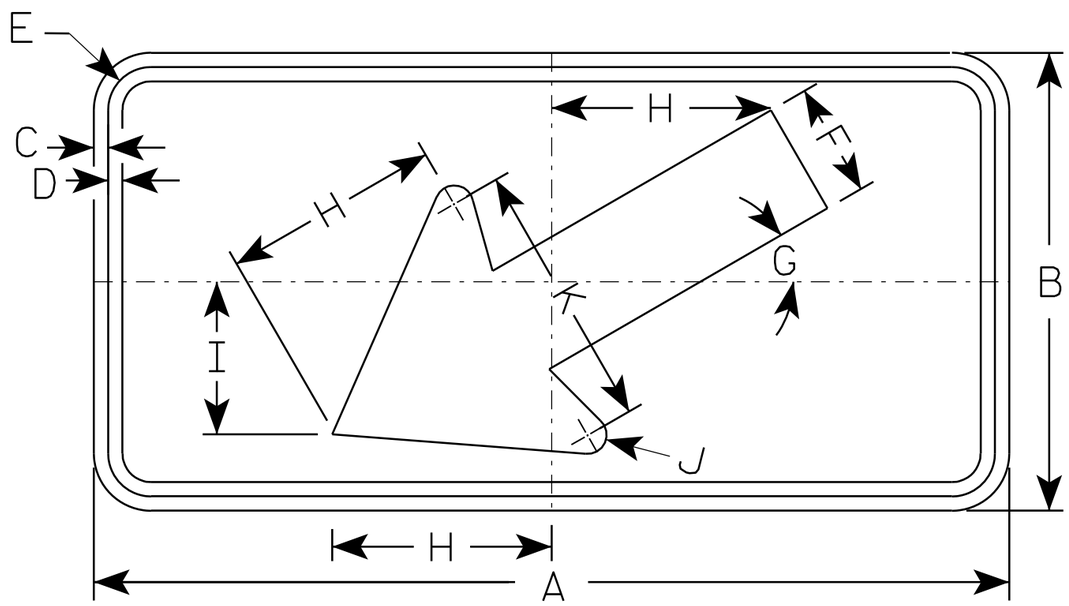
STANDARD SIGN
W16-1P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. W16-1P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 249 | E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

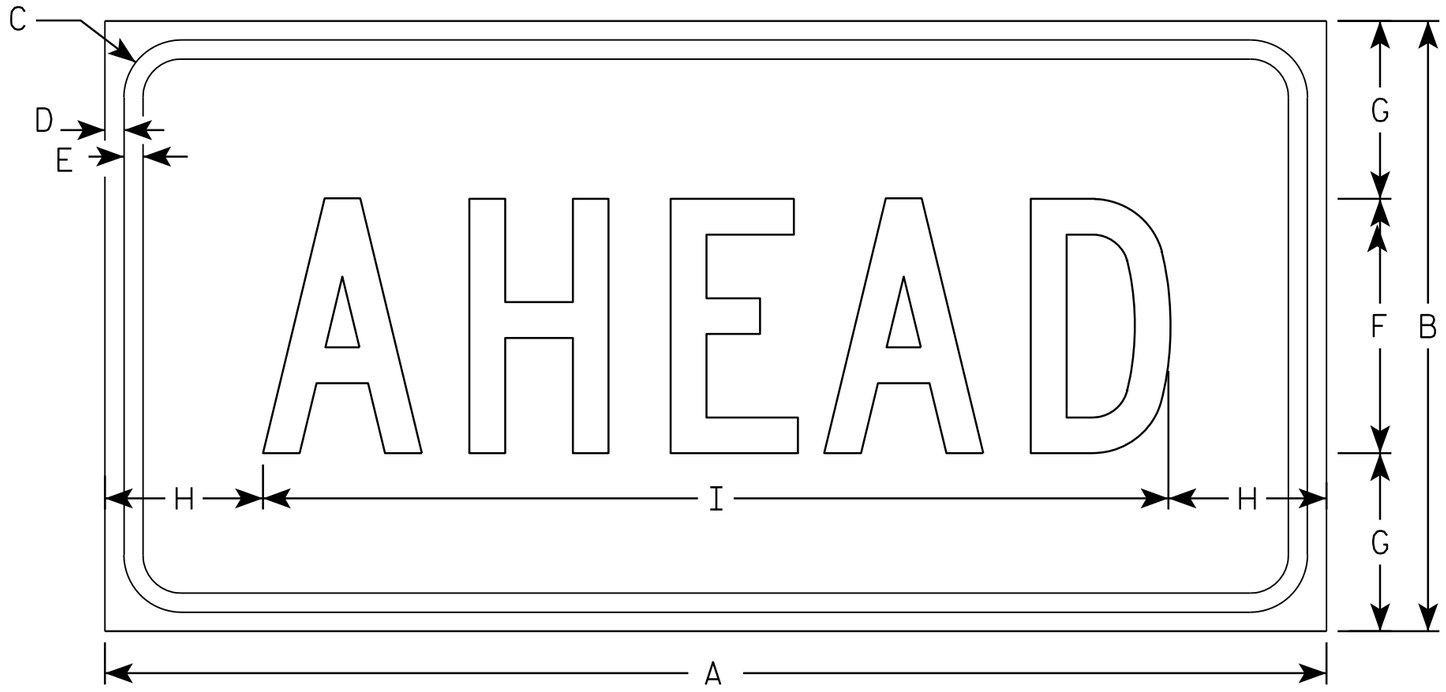
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 250	E



W16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

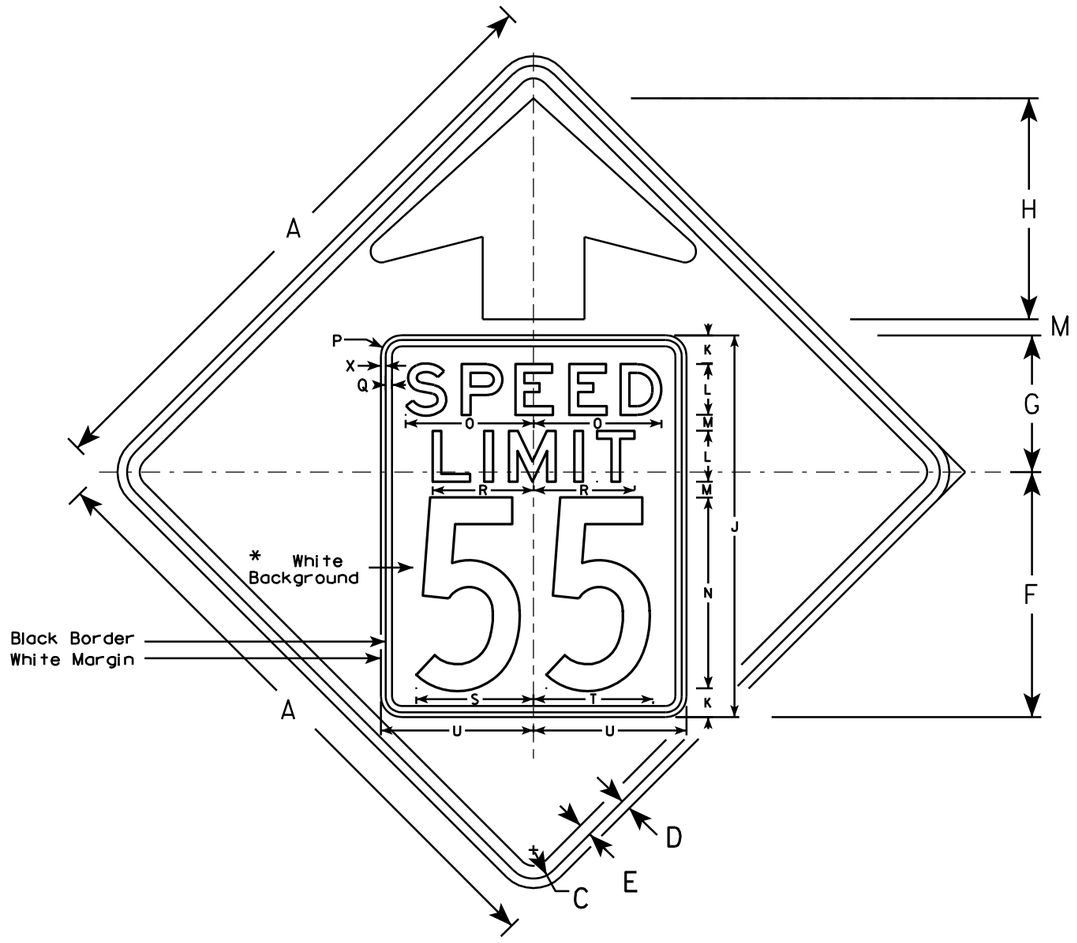
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/28/10 PLATE NO. W16-9P.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 251 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000

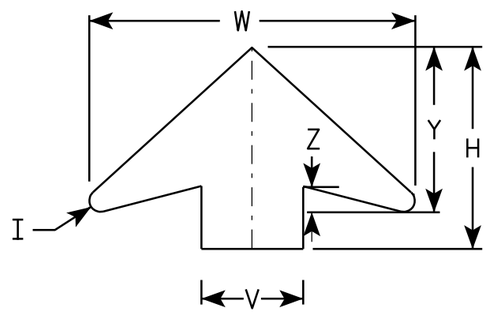


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

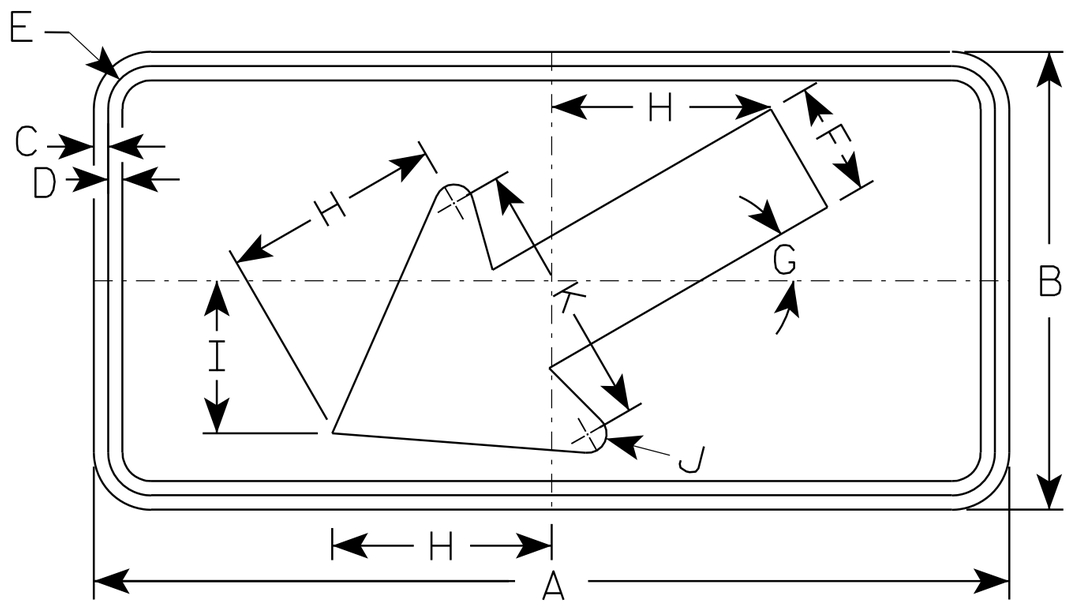
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 252 E



WF16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. WF16-7R are the same as WF-16-7L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

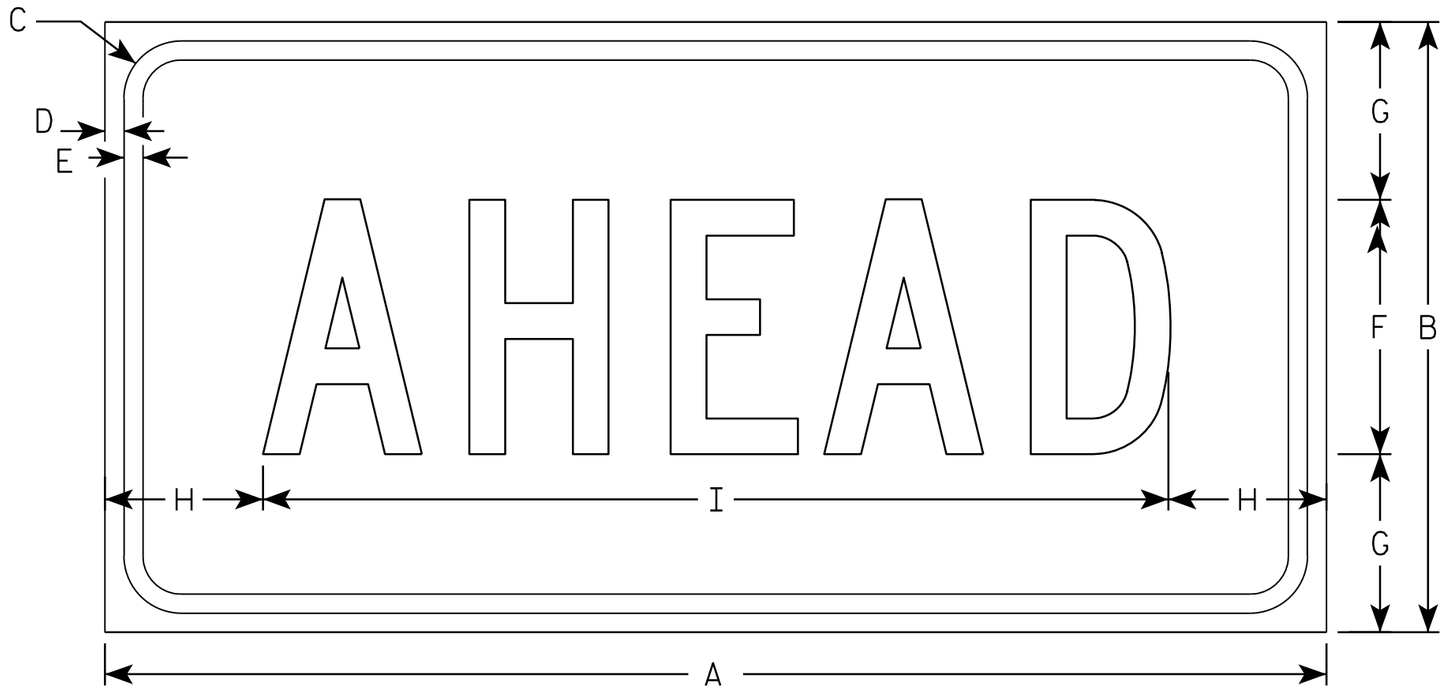
STANDARD SIGN
WF16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/21/10 PLATE NO. WF16-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 253 | E



WF16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
WF16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/29/2012 PLATE NO. WF16-9P.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 254 | E

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov