

EAU
PROJECT ID:
WITH: N/A

8939-03-78

COUNTY:
ST. CROIX

DECEMBER 2023

ORDER OF SHEETS

| | | |
|-------------|---|------------------------------|
| Section No. | 1 | Title |
| Section No. | 2 | General Notes |
| Section No. | 2 | Typical Sections and Details |
| 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 = 46

39

DESIGN DESIGNATION

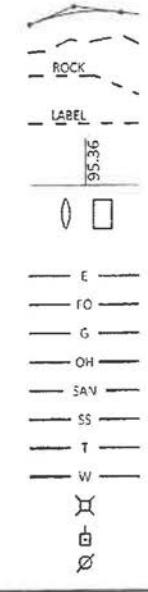
| | | | |
|--------------|--------|---|------|
| A.A.D.T. | (2024) | = | 5600 |
| A.A.D.T. | (2044) | = | 5800 |
| D.H.V. | | = | N/A |
| D.D. | | = | N/A |
| T. | | = | 5% |
| DESIGN SPEED | | = | N/A |
| ESALS | | = | N/A |

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 | |
| MARSH AREA | |
| WOODED OR SHRUB AREA | |

PROFILE

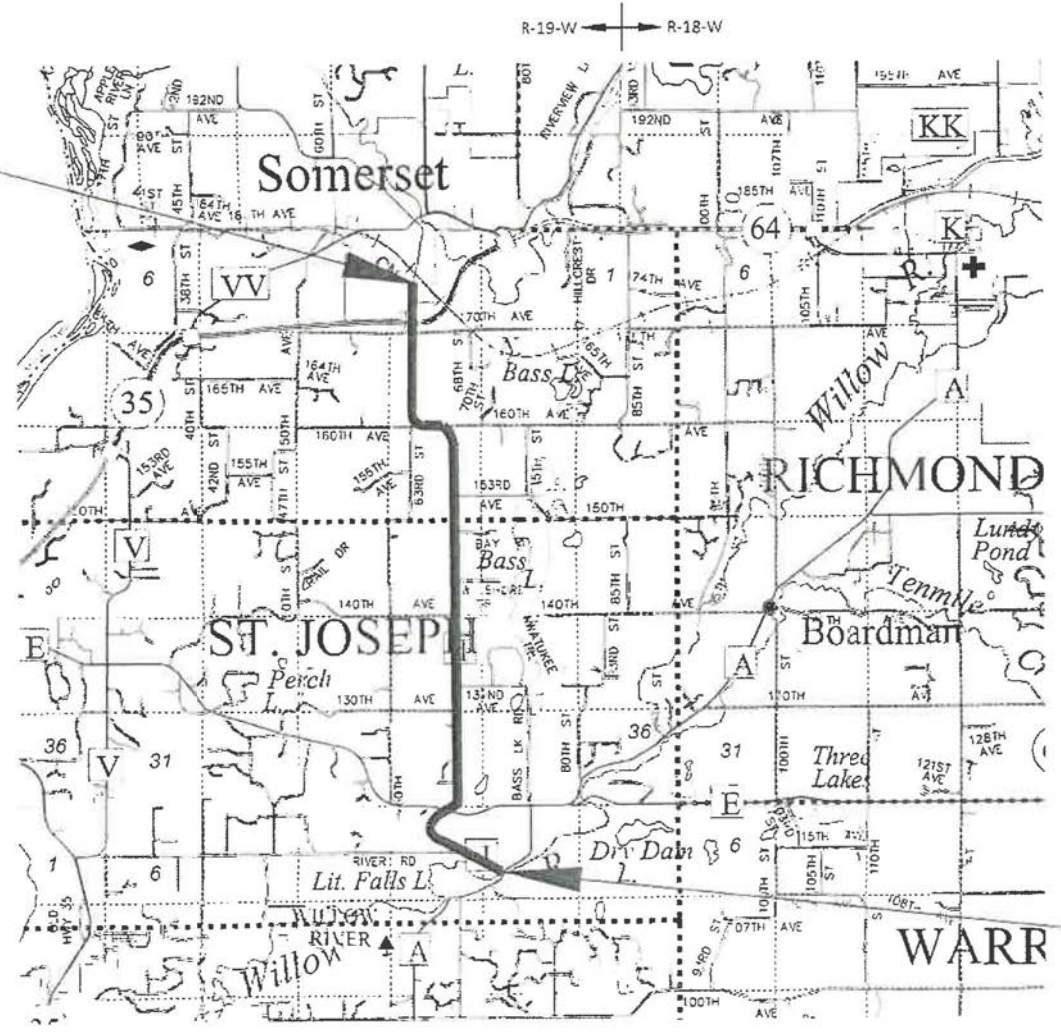
| | |
|---|--|
| GRADE LINE | |
| ORIGINAL GROUND | |
| MARSH OR ROCK PROFILE (To be noted as such) | |
| SPECIAL DITCH | |
| GRADE ELEVATION | |
| CULVERT (Profile View) | |
| UTILITIES | |
| ELECTRIC | |
| FIBER OPTIC | |
| GAS | |
| OVERHEAD | |
| SANITARY SEWER | |
| STORM SEWER | |
| TELEPHONE | |
| WATER | |
| UTILITY PEDESTAL | |
| POWER POLE | |
| TELEPHONE POLE | |



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
CTH A - SOMERSET
CTH A TO KOHLER DRIVE
CTH I
ST. CROIX COUNTY

STATE PROJECT NUMBER
8939-03-78

END PROJECT
STA 372+60.60



LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 6.855 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), ST. CROIX COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

BEGIN PROJECT
STA 10+63.00
Y=360721.909
X=537150.228

| STATE PROJECT | FEDERAL PROJECT | |
|---------------|-----------------|----------|
| | PROJECT | CONTRACT |
| 8939-03-78 | WISC 2024085 | 1 |
| | | |
| | | |

ACCEPTED FOR
ST. CROIX COUNTY
10/5/2023

ORIGINAL PLANS PREPARED BY
CORRE ENGINEERING
MADISON | WAUKESHA | EAU CLAIRE | APPLETON | TOMAHO | WITTEMBERG

WISCONSIN PROFESSIONAL ENGINEER
KEVIN L. MEYER
E-30309-006
ELK MOUND WI
10/5/23

DATE: _____
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor: CORRE INC.
Designer: CORRE, INC.
Project Manager: MATTHEW BERG, PE
Regional Examiner: TQU YANG, PE
Regional Supervisor: TYLER RONGSTAD, PE

APPROVED FOR THE DEPARTMENT
DATE: 10/5/2023
Matthew Berg
(Signature)

E

GENERAL NOTES

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

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

UTILITY CONTACTS

COMMUNICATION LINE

AT&T DISTRIBUTION
RICK PODOCAK
304 S DEWEY ST
EAU CLAIRE, WI 54701
PHONE: (715) 839-5565
EMAIL: RP4514@ATT.COM

COMMUNICATION LINE

BALDWIN TELECOM, INC.
MATT KNEGENDORF
930 MAPLE ST
BALDWIN, WI 54002
PHONE: (715) 688-1034
EMAIL: MKNEGENDORF@LSWI.NET

COMMUNICATION LINE

NORTHWESTERN COMMUNICATIONS
GREG CARDINAL
116 HARRIMAN AVE
AVERY, WI 54001
PHONE: (715) 268-3379
EMAIL: GREG.CARDINAL@AMERYTEL.NET

ELECTRICITY

DAIRYLAND POWER COOPERATIVE
ROB MALY
3200 EAST AVE S PO BOX 817
LA CROSSE, WI 54602
PHONE: (608) 518-2633
EMAIL: ROB.MALY@DAIRYLANDPOWER.COM

ELECTRICITY

ST. CROIX ELECTRIC COOPERATIVE
ROB DOOLEY
1925 RIDGEWAY ST
HAMMOND, WI 54015
PHONE: 715-796-5637
EMAIL: ROBD@SCECNET.NET

ELECTRICITY

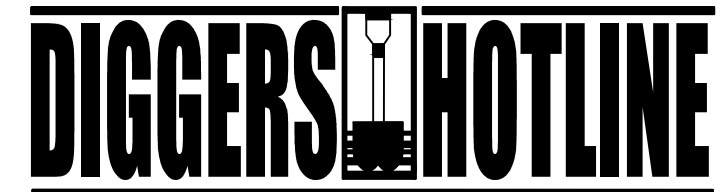
XCEL ENERGY, INC
DARREN NORDSKOG
2001 OLD HIGHWAY 35 S.
HUDSON, WI 54016
PHONE: (715) 386-4798
EMAIL: DARREN.M.NORDSKOG@XCELENERGY.COM


ELECTRICITY - TRANSMISSION

XCEL ENERGY, INC
MITCHELL DIENGER
414 NICOLLET MALL, 5TH FLOOR
MINNEAPOLIS, MN 55401
PHONE: (612) 321-3109
EMAIL: MITCHELL.A.DIENGER@XCELENERGY.COM

GAS/PETROLEUM

MIDWEST NATURAL GAS, INC
RICH HYDE
611 SHAY ST.
SOMERSET, WI 54025
PHONE: (715) 797-0590
EMAIL: RICHH@MIDWESTNATURALGAS.COM



Dial  or (800)242-8511

www.DiggersHotline.com

COUNTY CONTACT

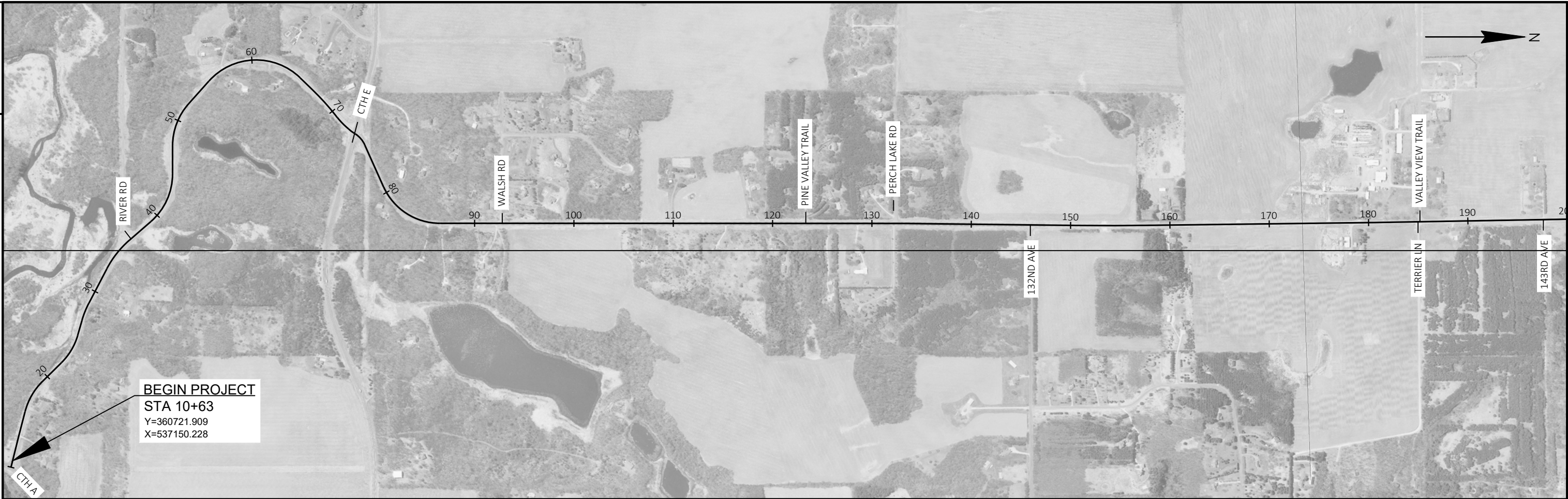
HIGHWAY DEPARTMENT
ROBBIE KREJCI
300 OAK RIDGE PARKWAY
BALDWIN, WI 54002
PHONE: (715) 245-4205
EMAIL: ROBBIE.KREJCI@SCCW1.GOV

DNR CONTACT

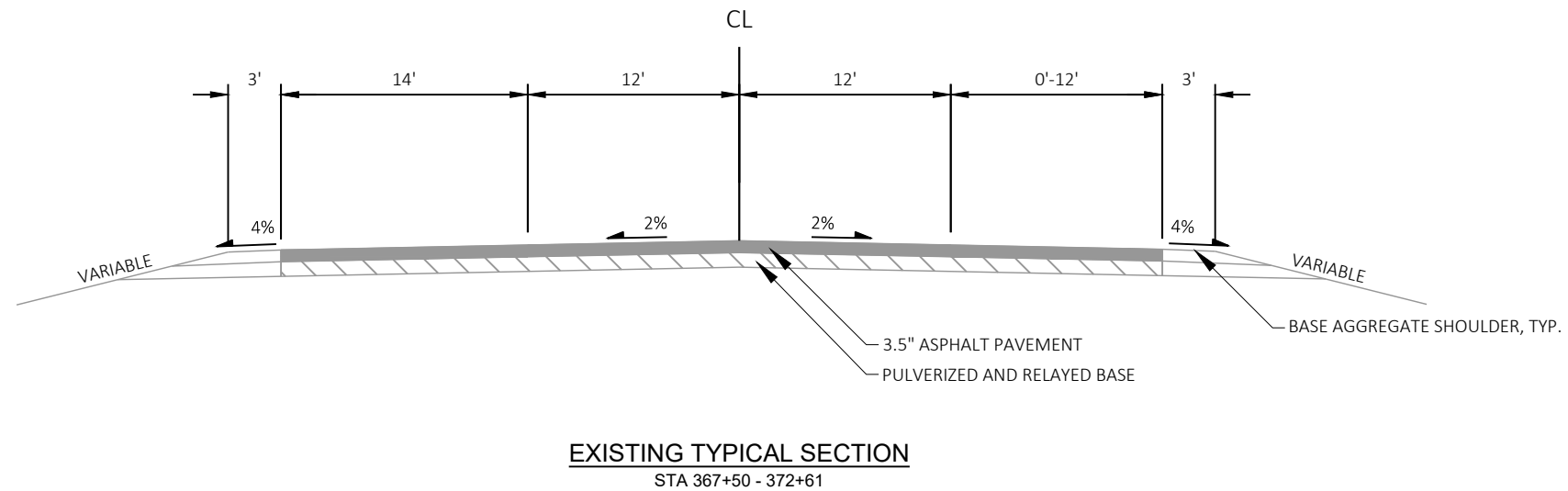
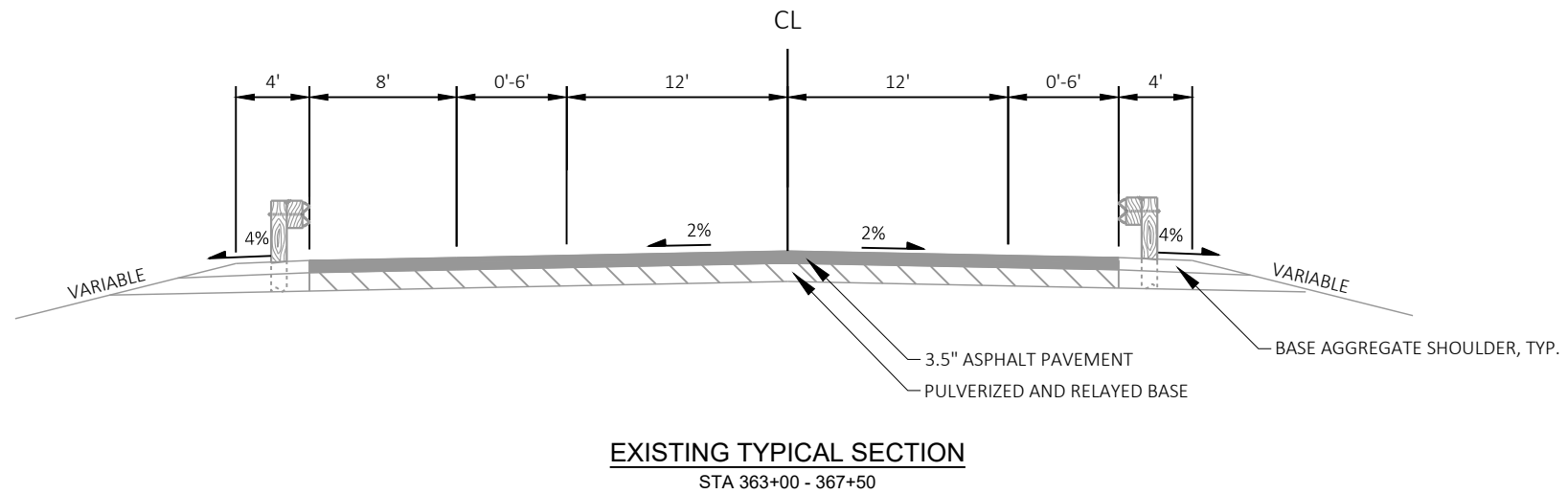
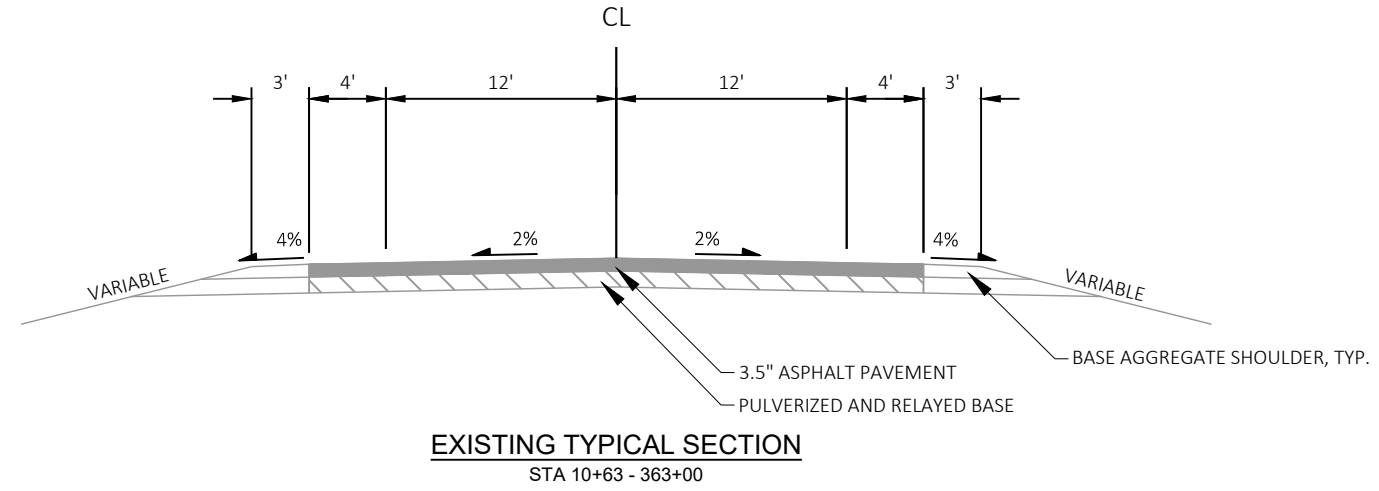
DNR WEST CENTRAL REGION HQ
AMY LESIK
1300 W CLAIREMONT AVE
EAU CLAIRE, WI 54701
PHONE: (715) 836-6571
EMAIL: AMYL.LESIK@WISCONSIN.GOV

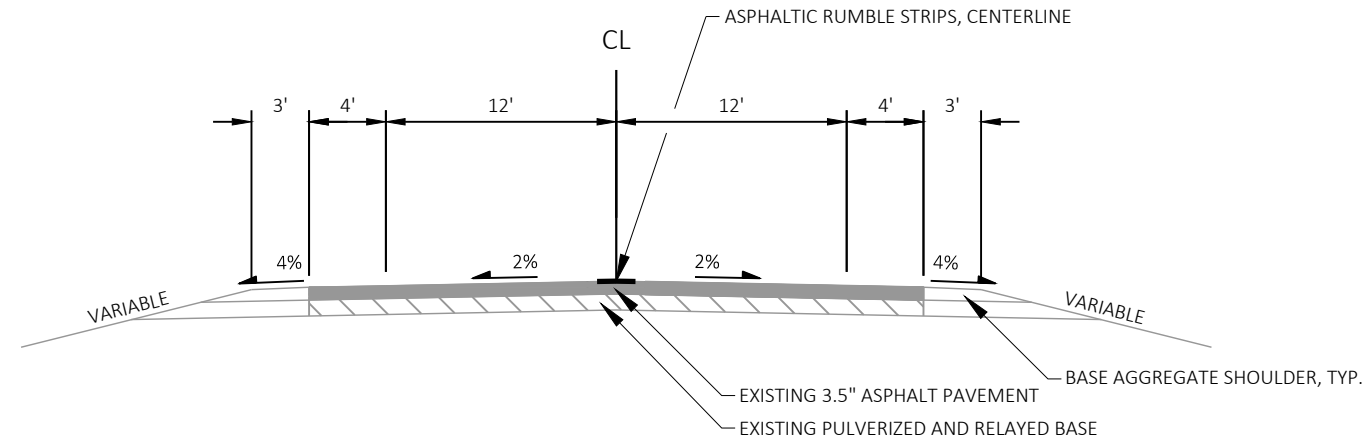
DESIGN CONTACT

CORRE, INC.
KEVIN MEYER
1802 WARDEN ST
EAU CLAIRE, WI 54703
PHONE: (715) 299-1894
EMAIL: KMEYER@CORREINC.COM

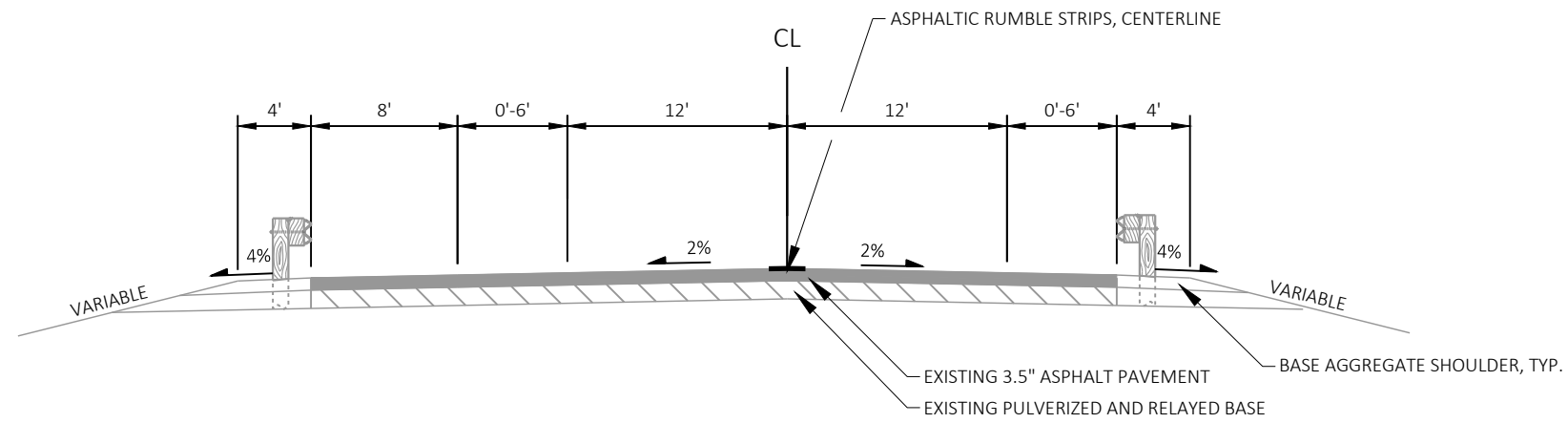


| | | | | | |
|------------------------|------------|-------------------|------------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PROJECT OVERVIEW | SHEET | E |
|------------------------|------------|-------------------|------------------|-------|----------|

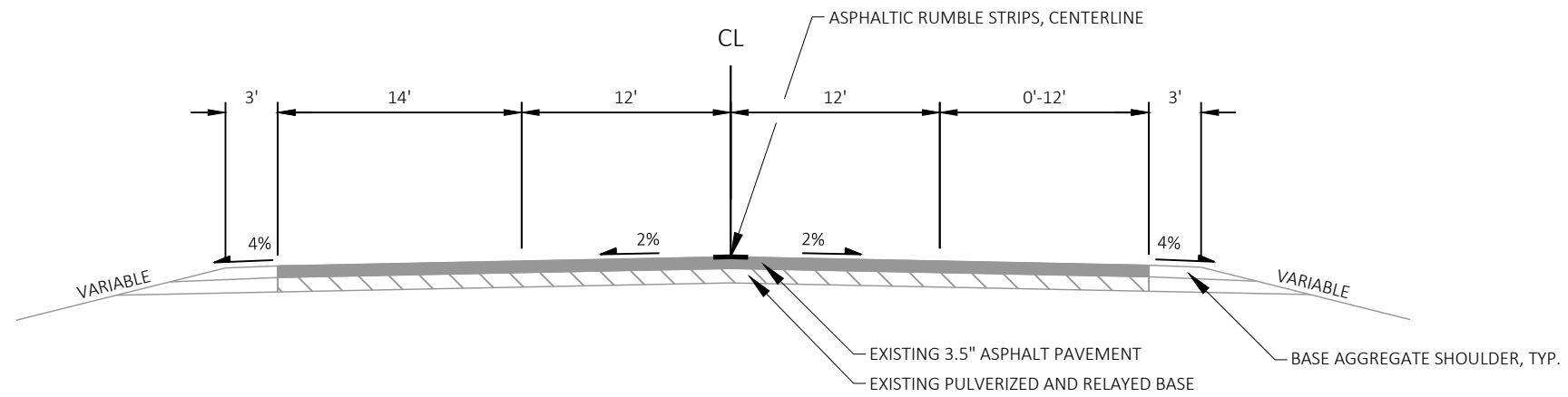




FINISHED TYPICAL SECTION
 STA 10+63 - 363+00



FINISHED TYPICAL SECTION
 STA 363+00 - 367+50



FINISHED TYPICAL SECTION
 STA 367+50 - 372+61

Estimate Of Quantities

8939-03-78

| Line | Item | Item Description | Unit | Total | Qty |
|------|----------|---|------|-------------|-------------|
| 0002 | 213.0100 | Finishing Roadway (project) 01. 8939-03-78 | EACH | 1.000 | 1.000 |
| 0004 | 465.0560 | Asphaltic Rumble Strips, Centerline | LF | 29,888.000 | 29,888.000 |
| 0006 | 465.0580 | Asphaltic Rumble Strips, Transverse | SY | 108.000 | 108.000 |
| 0008 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 0010 | 634.0616 | Posts Wood 4x6-Inch X 16-FT | EACH | 44.000 | 44.000 |
| 0012 | 637.2230 | Signs Type II Reflective F | SF | 277.500 | 277.500 |
| 0014 | 638.2602 | Removing Signs Type II | EACH | 5.000 | 5.000 |
| 0016 | 638.3000 | Removing Small Sign Supports | EACH | 2.000 | 2.000 |
| 0018 | 643.0900 | Traffic Control Signs | DAY | 558.000 | 558.000 |
| 0020 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0022 | 646.2005 | Marking Line Paint 6-Inch | LF | 126,895.000 | 126,895.000 |
| 0024 | 646.4005 | Marking Line Paint 10-Inch | LF | 395.000 | 395.000 |
| 0026 | 646.6005 | Marking Stop Line Paint 12-Inch | LF | 60.000 | 60.000 |
| 0028 | 648.0100 | Locating No-Passing Zones | MI | 6.860 | 6.860 |
| 0030 | ASP.1T0A | On-the-Job Training Apprentice at \$5.00/HR | HRS | 100.000 | 100.000 |
| 0032 | ASP.1T0G | On-the-Job Training Graduate at \$5.00/HR | HRS | 100.000 | 100.000 |

3

3

*SIGN TOTALS ARE LOCATED ON NEXT MQ SHEET

| 643.0900 TRAFFIC CONTROL SIGNS | | | |
|-----------------------------------|----------|-----|--------------------|
| CATEGORY | LOCATION | DAY | REMARKS |
| 0010 | PROJECT | 558 | 31 SIGNS X 18 DAYS |
| TOTAL 0010 | | 558 | |

| 646.6005 MARKING STOP LINE PAINT 12-INCH LF | | | | | | | 646.4005 MARKING LINE PAINT 10-INCH LF | | | | | | | 646.2005 MARKING LINE PAINT 6-INCH LF | | | | | | |
|---|---------|----|---------|------------------|----|----------|--|----|---------|----------|--------|----------|---------|---|---------|----------|----|--|--|--|
| CATEGORY | STATION | TO | STATION | LOCATION | LF | CATEGORY | STATION | TO | STATION | LOCATION | LF | CATEGORY | STATION | TO | STATION | LOCATION | LF | | | |
| 0010 | 10+63 | - | 372+61 | CL | - | - | - | - | 372+61 | CL | 56,236 | | | | | | | | | |
| 0010 | 10+63 | - | 372+61 | LT | - | - | - | - | 372+61 | LT | 35,311 | | | | | | | | | |
| 0010 | 10+63 | - | 372+61 | RT | - | - | - | - | 372+61 | RT | 35,348 | | | | | | | | | |
| 0010 | 73+02 | - | 73+02 | CTH E | 12 | - | - | - | | | | | | | | | | | | |
| 0010 | 73+06 | - | 73+06 | CTH E | 12 | - | - | - | | | | | | | | | | | | |
| 0010 | 73+51 | - | 73+51 | CTH E | 12 | - | - | - | | | | | | | | | | | | |
| 0010 | 73+52 | - | 73+52 | CTH E | 12 | - | - | - | | | | | | | | | | | | |
| 0010 | 287+54 | - | 289+54 | 160TH AVE, NB TL | - | 200 | - | - | | | | | | | | | | | | |
| 0010 | 309+45 | - | 310+50 | 160TH AVE, SB TL | - | 105 | - | - | | | | | | | | | | | | |
| 0010 | 371+34 | - | 372+24 | KOHLER, TL | - | 90 | - | - | | | | | | | | | | | | |
| 0010 | 372+25 | - | 372+25 | KOHLER, TL | 12 | - | - | - | | | | | | | | | | | | |
| TOTAL 0010 | | | | | 60 | 395 | 126,895 | | | | | | | | | | | | | |

| 648.0100 LOCATING NO- PASSING ZONES MI | | | | | |
|---|---------|----|---------|----------|------|
| CATEGORY | STATION | TO | STATION | LOCATION | MI |
| 0010 | 10+36 | - | 372+32 | PROJECT | 6.86 |
| TOTAL 0010 | | | | | 6.86 |

| 465.0560 ASPHALTIC RUMBLE STRIPS, CENTERLINE LF | | | | | | |
|---|---------|----|---------|----------|--------|--|
| CATEGORY | STATION | TO | STATION | LOCATION | LF | |
| 0010 | 12+00 | - | 34+50 | CL | 2247 | |
| 0010 | 38+50 | - | 71+12 | CL | 3253 | |
| 0010 | 75+12 | - | 90+60 | CL | 1546 | |
| 0010 | 94+60 | - | 121+23 | CL | 2661 | |
| 0010 | 125+23 | - | 130+37 | CL | 516 | |
| 0010 | 134+37 | - | 143+95 | CL | 957 | |
| 0010 | 147+95 | - | 187+98 | CL | 3503 | |
| 0010 | 187+16 | - | 195+60 | CL | 761 | |
| 0010 | 199+60 | - | 202+15 | CL | 257 | |
| 0010 | 206+15 | - | 229+05 | CL | 2288 | |
| 0010 | 233+05 | - | 249+25 | CL | 1622 | |
| 0010 | 253+25 | - | 287+84 | CL | 3458 | |
| 0010 | 291+84 | - | 307+10 | CL | 1524 | |
| 0010 | 311+10 | - | 357+65 | CL | 4638 | |
| 0010 | 361+65 | - | 363+87 | CL | 221 | |
| 0010 | 366+73 | - | 371+89 | CL | 416 | |
| TOTAL 0010 | | | | | 29,888 | |

| CATEGORY | STATION | SIGN NUMBER | SIGN CODE | SIGN MESSAGE | SIZE (IN) | LOCATION | EACH | SF | EACH | EACH |
|----------|---------|-------------|-----------|-----------------------|-----------|----------|------|----|------|------|
| 0010 | 15+76 | 1-1 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 15+76 | 1-2 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 16+96 | 1-3 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 16+96 | 1-4 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 18+16 | 1-5 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 18+16 | 1-6 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 19+36 | 1-7 | W1-8 | CHEVRON | 18 x 24 | LI | 1 | 3 | - | - |
| 0010 | 19+36 | 1-8 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 22+00 | 1-9 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 22+00 | 1-10 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 23+20 | 1-11 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 23+20 | 1-12 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 24+40 | 1-13 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 24+40 | 1-14 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 25+60 | 1-15 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 25+60 | 1-16 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 32+57 | 1-17 | W1-8 | CHEVRON | 18 x 24 | LI | 1 | 3 | - | - |
| 0010 | 32+57 | 1-18 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 33+77 | 1-19 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 33+77 | 1-20 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 34+97 | 1-21 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 34+97 | 1-22 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 39+12 | 2-1 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 39+12 | 2-2 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 40+32 | 2-3 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 40+32 | 2-4 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 41+52 | 2-5 | W1-8 | CHEVRON | 18 x 24 | RI | 1 | 3 | - | - |
| 0010 | 41+52 | 2-6 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 42+72 | 2-7 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 42+72 | 2-8 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 43+92 | 2-9 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 43+92 | 2-10 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 45+12 | 2-11 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - |
| 0010 | 45+12 | 2-12 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - |
| 0010 | 47+36 | 2-13 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 47+36 | 2-14 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 48+56 | 2-15 | W1-8 | CHEVRON | 18 x 24 | LI | 1 | 3 | - | - |
| 0010 | 48+56 | 2-16 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 49+76 | 2-17 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 49+76 | 2-18 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 50+96 | 2-19 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 50+96 | 2-20 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 52+16 | 2-21 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - |
| 0010 | 52+16 | 2-22 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - |
| 0010 | 54+77 | 2-23 | S3-1 | SCHOOL BUS STOP AHEAD | 30 x 30 | RT | - | - | 1 | - |

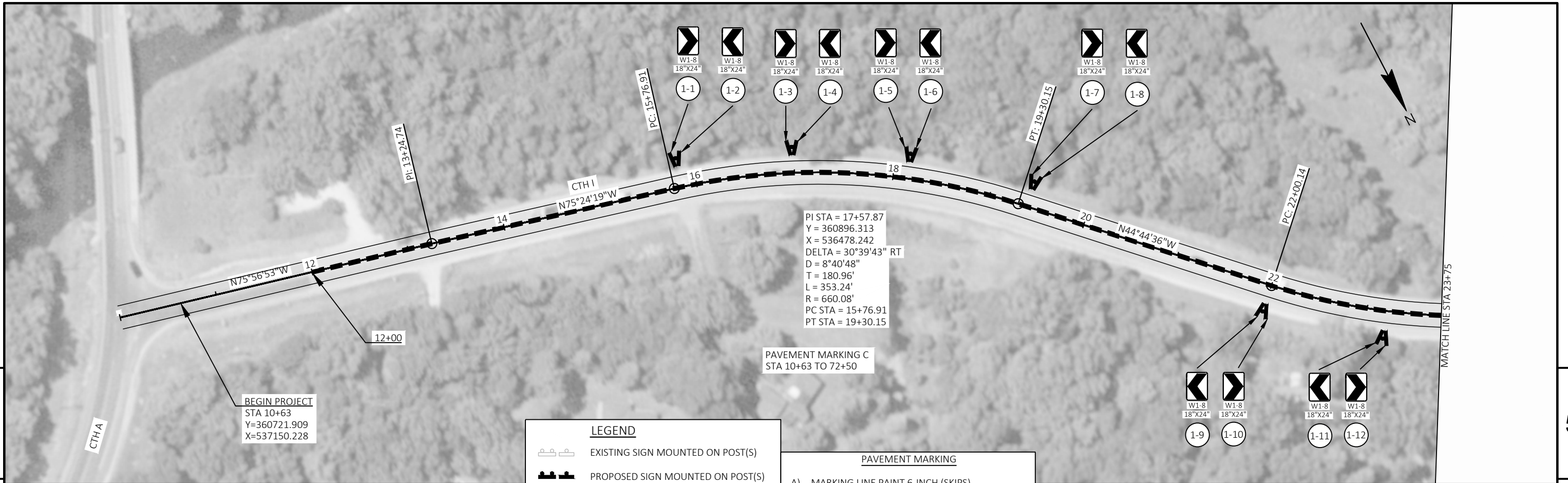
| 465.0580 ASPHALTIC RUMBLE STRIPS, TRANSVERSE SY | | | | | |
|--|---------|----|---------|-----------|-----|
| CATEGORY | STATION | TO | STATION | LOCATION | SY |
| 0010 | 66+90 | - | 67+15 | CTH I, NB | 27 |
| 0010 | 70+15 | - | 70+40 | CTH I, NB | 27 |
| 0010 | 75+60 | - | 75+85 | CTH I, SB | 27 |
| 0010 | 78+85 | - | 79+10 | CTH I, SB | 27 |
| TOTAL 0010 | | | | | 108 |

PROJECT NO: 8939-03-78 HWY: CTH I COUNTY: ST. CROIX MISCELLANEOUS QUANTITIES SHEET E

3

3

| CATEGORY | STATION | SIGN NUMBER | SIGN CODE | SIGN MESSAGE | SIZE (IN) | LOCATION | 634.0616 | | 637.2230 | 638.2602 | 638.3000 |
|------------------|---------|-------------|-----------|-----------------------|-----------|----------|----------|--------|---------------------------------|-------------------------------|---------------------------|
| | | | | | | | EACH | SF | POSTS WOOD 4X6- INCH X 16-FT | SIGNS TYPE II REFLECTIVE F | REMOVING SIGNS TYPE II |
| 0010 | 54+77 | 2-24 | S3-1 | SCHOOL BUS STOP AHEAD | 30 x 30 | RT | - | 6.25 | - | - | - |
| 0010 | 55+05 | 2-25 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 55+05 | 2-26 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 56+25 | 2-27 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 56+25 | 2-28 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 57+45 | 2-29 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 57+45 | 2-30 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 58+65 | 2-31 | W1-8 | CHEVRON | 18 x 24 | LI | 1 | 3 | - | - | - |
| 0010 | 58+65 | 2-32 | W1-8 | CHEVRON | 18 x 24 | LI | - | 3 | - | - | - |
| 0010 | 59+85 | 2-33 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 59+85 | 2-34 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 61+05 | 2-35 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 61+05 | 2-36 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 62+25 | 2-37 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 62+25 | 2-38 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 63+45 | 2-39 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 63+45 | 2-40 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 64+65 | 2-41 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 64+65 | 2-42 | W1-8 | CHEVRON | 18 x 24 | LT | - | 3 | - | - | - |
| 0010 | 65+85 | 2-43 | W1-8 | CHEVRON | 18 x 24 | LT | 1 | 3 | - | - | - |
| 0010 | 65+85 | 2-44 | W1-8 | CHEVRON | 18 x 24 | LI | - | 3 | - | - | - |
| 0010 | 86+37 | 4-1 | S3-1 | SCHOOL BUS STOP AHEAD | 30 x 30 | LI | - | - | - | - | 1 |
| 0010 | 86+37 | 4-2 | S3-1 | SCHOOL BUS STOP AHEAD | 30 x 30 | LT | 1 | 6.25 | - | - | - |
| 0010 | 89+70 | 4-3 | W13-1 | ADVISORY SPEED PLATE | 18 x 18 | LT | - | - | 1 | - | - |
| 0010 | 140+00 | 5-1 | S3-1 | SCHOOL BUS STOP AHEAD | 30 x 30 | LT | - | - | - | - | 1 |
| 0010 | 140+00 | 5-2 | S3-1 | SCHOOL BUS STOP AHEAD | 30 x 30 | LT | 1 | 6.25 | - | - | - |
| 0010 | 269+66 | 9-1 | W13-1 | ADVISORY SPEED PLATE | 18 x 18 | RT | - | - | 1 | - | - |
| 0010 | 269+66 | 9-2 | W13-1 | ADVISORY SPEED PLATE | 18 x 18 | RT | - | 2.25 | - | - | - |
| 0010 | 273+19 | 9-3 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 273+19 | 9-4 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 274+39 | 10-1 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 274+39 | 10-2 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 275+59 | 10-3 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 275+59 | 10-4 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 276+79 | 10-5 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 276+79 | 10-6 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 279+60 | 10-7 | W13-1 | ADVISORY SPEED PLATE | 18 x 18 | LT | - | - | 1 | - | - |
| 0010 | 279+60 | 10-8 | W13-1 | ADVISORY SPEED PLATE | 18 x 18 | LT | - | 2.25 | - | - | - |
| 0010 | 287+07 | 10-9 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 287+07 | 10-10 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 288+67 | 10-11 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 288+67 | 10-12 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 291+00 | 10-13 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 291+00 | 10-14 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 292+60 | 10-15 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 292+60 | 10-16 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 294+20 | 10-17 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 294+20 | 10-18 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 295+80 | 10-19 | W1-8 | CHEVRON | 18 x 24 | RT | 1 | 3 | - | - | - |
| 0010 | 295+80 | 10-20 | W1-8 | CHEVRON | 18 x 24 | RT | - | 3 | - | - | - |
| 0010 | 300+85 | 10-21 | W13-1 | ADVISORY SPEED PLATE | 18 x 18 | RT | - | - | 1 | - | - |
| 0010 | 300+85 | 10-22 | W13-1 | ADVISORY SPEED PLATE | 18 x 18 | RT | - | 2.25 | - | - | - |
| TOTAL QUANTITIES | | | | | | | 44 | 277.50 | 5 | 7 | |

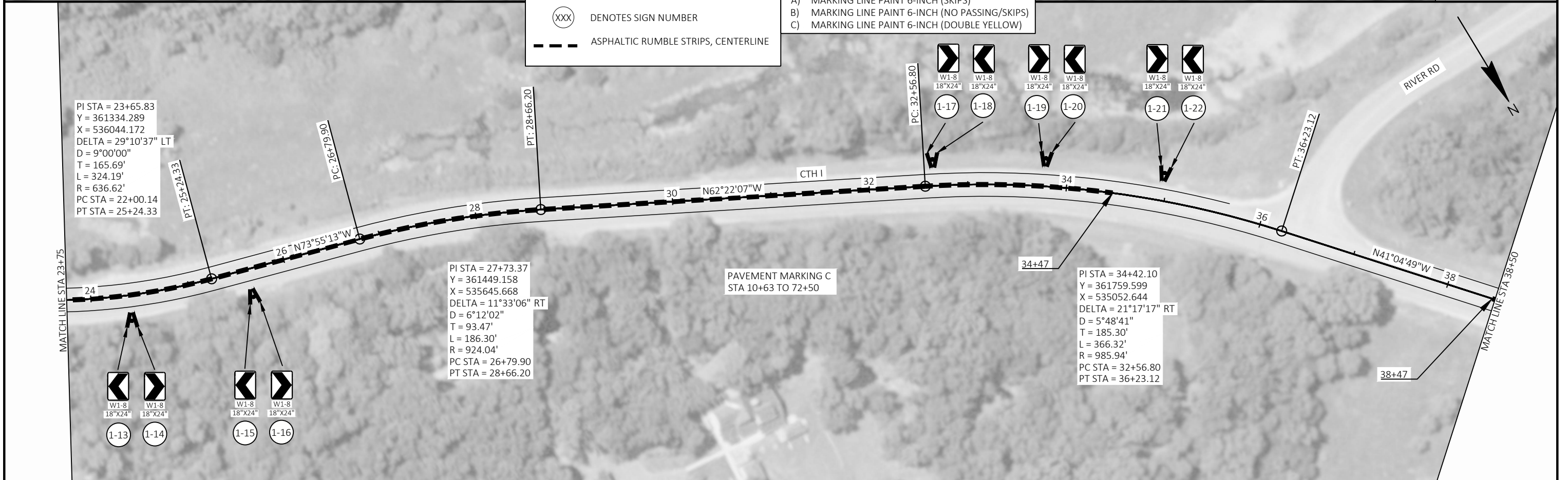


LEGEND

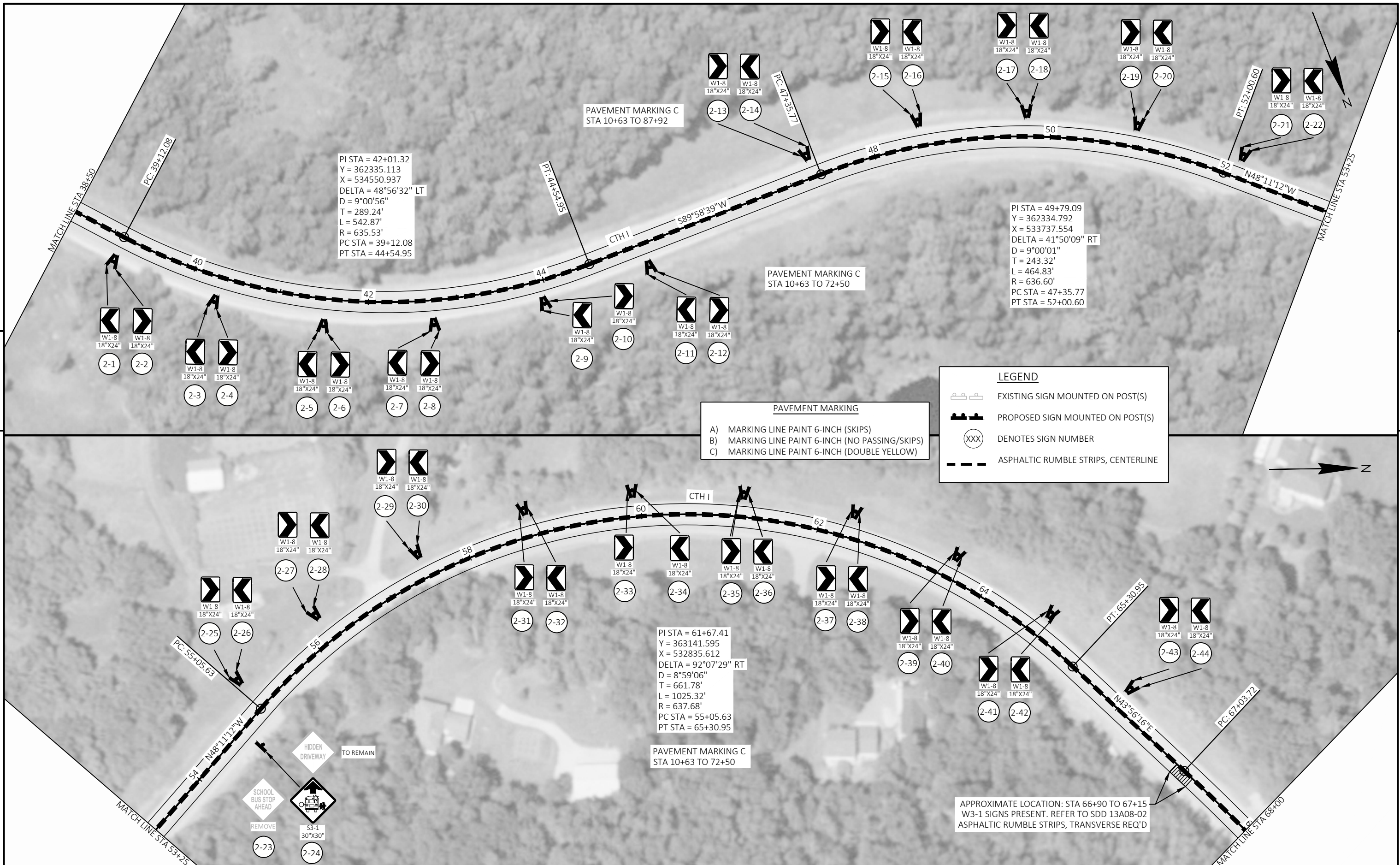
- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DENOTES SIGN NUMBER
- ASPHALTIC RUMBLE STRIPS, CENTERLINE

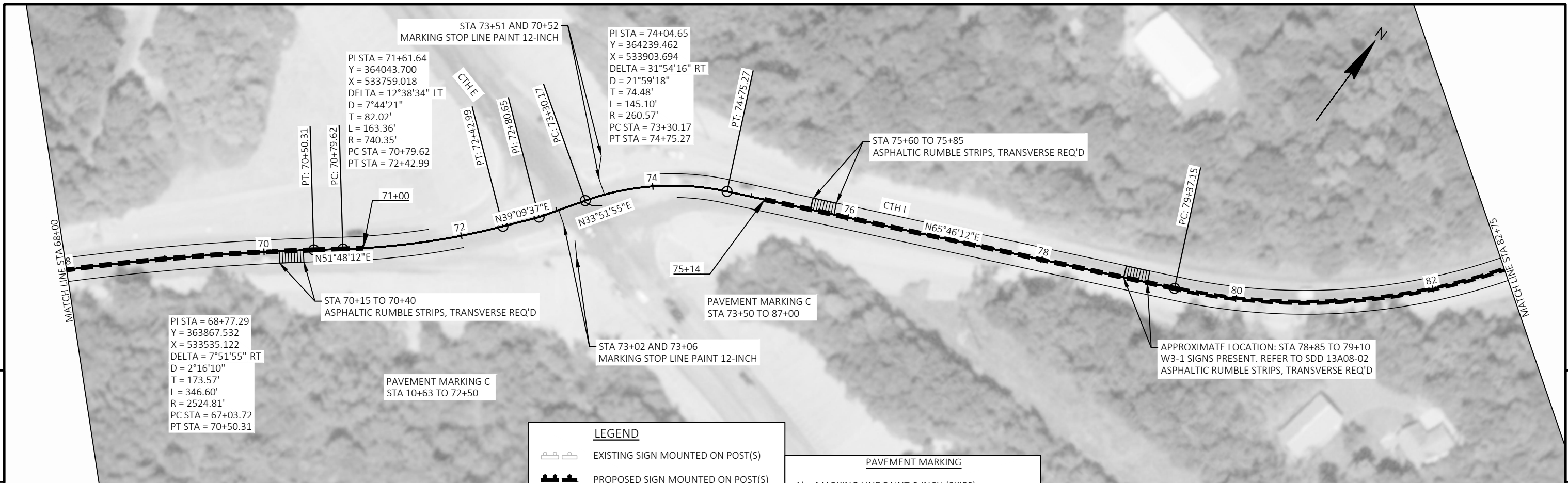
PAVEMENT MARKING

- A) MARKING LINE PAINT 6-INCH (SKIPS)
- B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
- C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)



| | | | | | |
|------------------------|------------|-------------------|-------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PLAN SHEETS | SHEET | E |
|------------------------|------------|-------------------|-------------|-------|----------|





PI STA = 68+77.29
 Y = 363867.532
 X = 533535.122
 DELTA = 7°51'55" RT
 D = 2°16'10"
 T = 173.57'
 L = 346.60'
 R = 2524.81'
 PC STA = 67+03.72
 PT STA = 70+50.31

PI STA = 71+61.64
 Y = 364043.700
 X = 533759.018
 DELTA = 12°38'34" LT
 D = 7°44'21"
 T = 82.02'
 L = 163.36'
 R = 740.35'
 PC STA = 70+79.62
 PT STA = 72+42.99

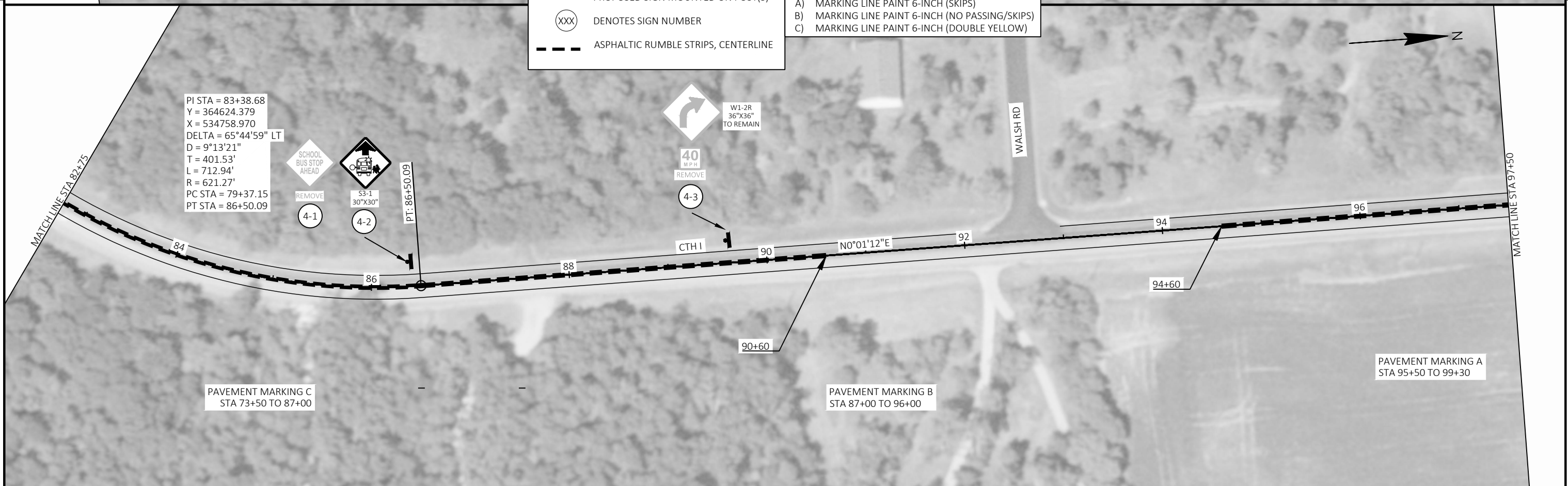
PI STA = 74+04.65
 Y = 364239.462
 X = 533903.694
 DELTA = 31°54'16" RT
 D = 21°59'18"
 T = 74.48'
 L = 145.10'
 R = 260.57'
 PC STA = 73+30.17
 PT STA = 74+75.27

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DENOTES SIGN NUMBER
- ASPHALTIC RUMBLE STRIPS, CENTERLINE

PAVEMENT MARKING

- A) MARKING LINE PAINT 6-INCH (SKIPS)
- B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
- C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)



PI STA = 83+38.68
 Y = 364624.379
 X = 534758.970
 DELTA = 65°44'59" LT
 D = 9°13'21"
 T = 401.53'
 L = 712.94'
 R = 621.27'
 PC STA = 79+37.15
 PT STA = 86+50.09

PAVEMENT MARKING C
 STA 73+50 TO 87+00

PAVEMENT MARKING B
 STA 87+00 TO 96+00

PAVEMENT MARKING A
 STA 95+50 TO 99+30





| | | | | | |
|------------------------|------------|-------------------|-------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PLAN SHEETS | SHEET | E |
|------------------------|------------|-------------------|-------------|-------|----------|



5

5

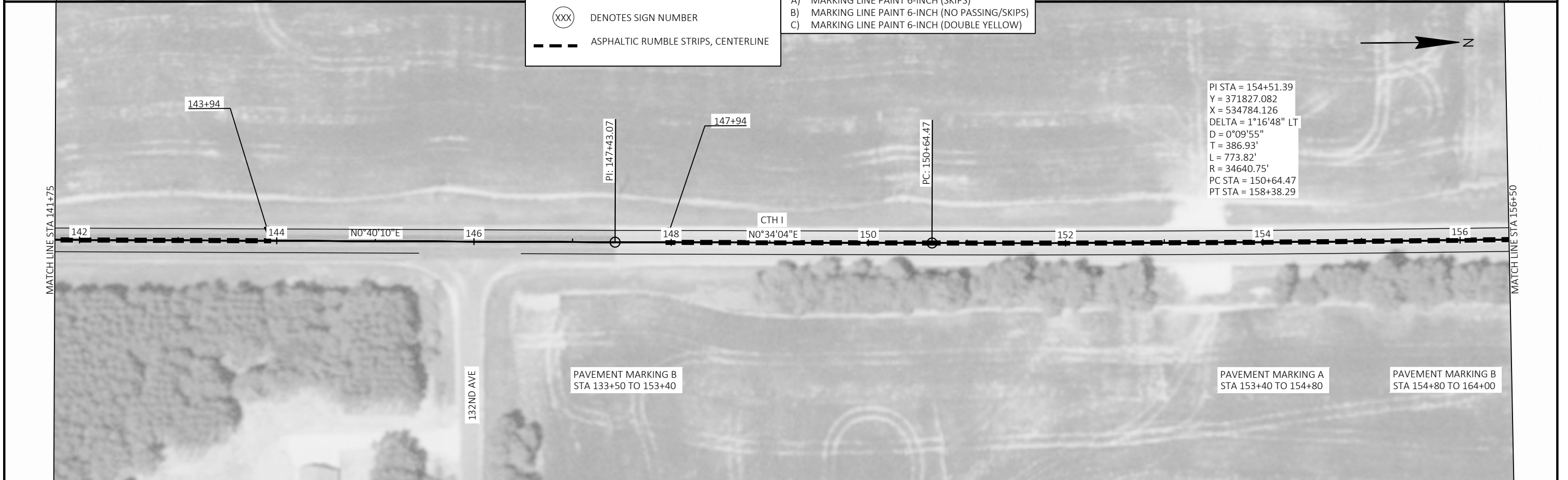
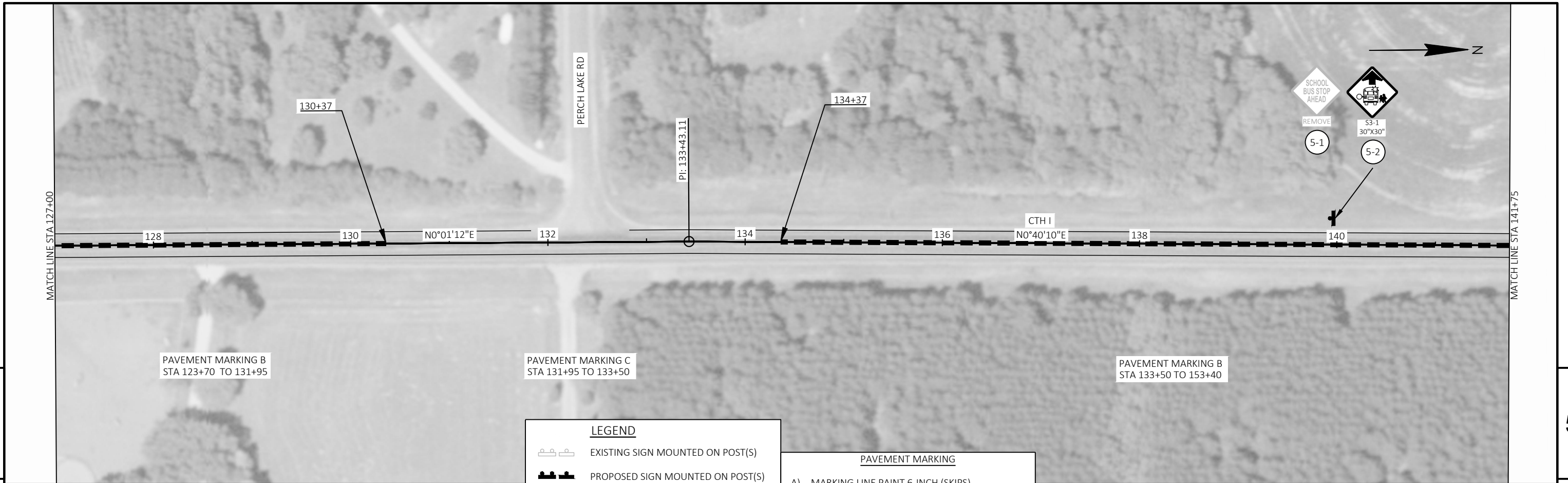
LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  PROPOSED SIGN MOUNTED ON POST(S)
-  DENOTES SIGN NUMBER
-  ASPHALTIC RUMBLE STRIPS, CENTERLINE

PAVEMENT MARKING

- A) MARKING LINE PAINT 6-INCH (SKIPS)
- B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
- C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)

| | | | | | |
|------------------------|------------|-------------------|-------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PLAN SHEETS | SHEET | E |
|------------------------|------------|-------------------|-------------|-------|----------|



PROJECT NO: 8939-03-78 HWY: CTH I COUNTY: ST. CROIX PLAN SHEETS SHEET E



5

5

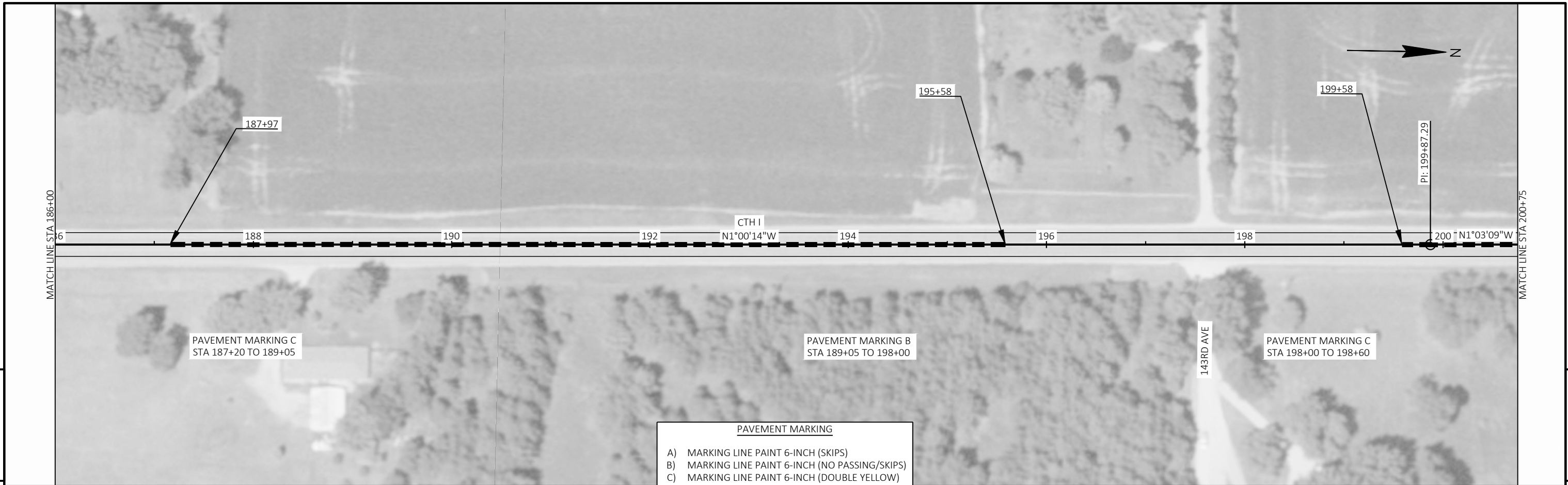
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DENOTES SIGN NUMBER
- ASPHALTIC RUMBLE STRIPS, CENTERLINE

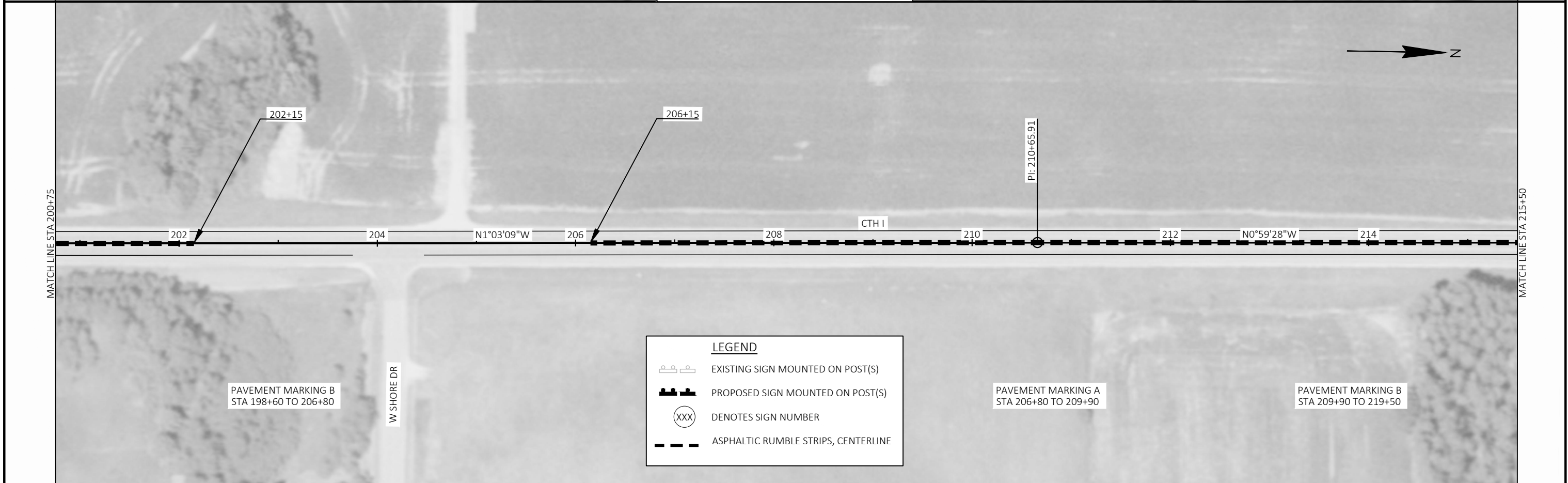
PAVEMENT MARKING

- A) MARKING LINE PAINT 6-INCH (SKIPS)
- B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
- C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)

| | | | | | |
|------------------------|------------|-------------------|-------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PLAN SHEETS | SHEET | E |
|------------------------|------------|-------------------|-------------|-------|----------|

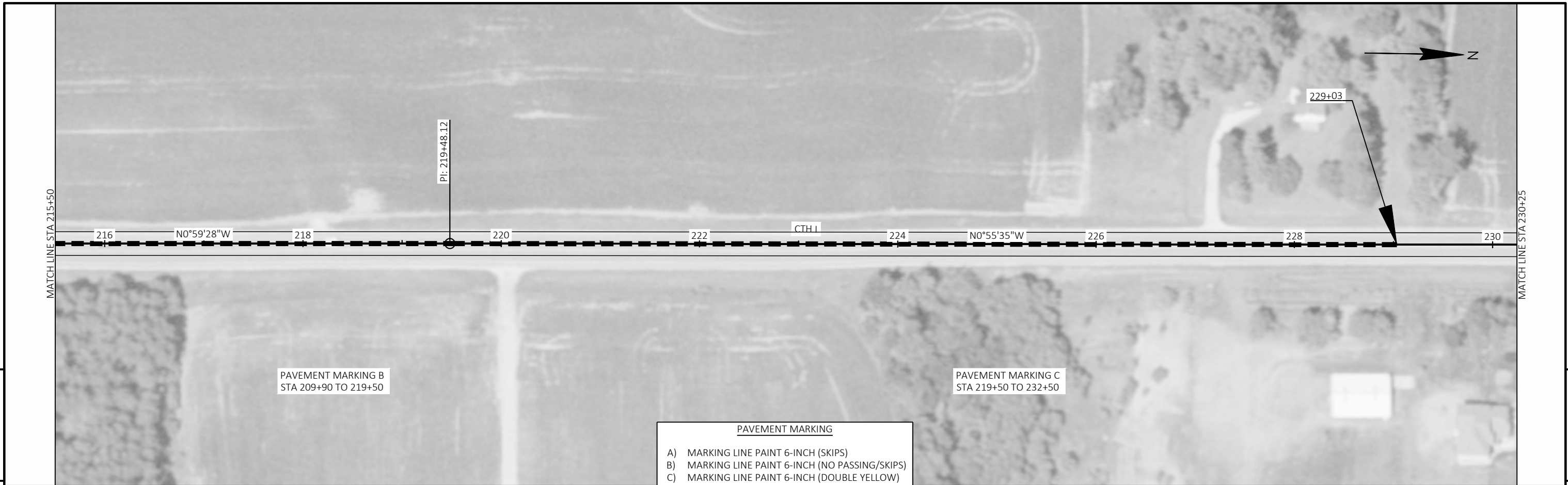


| PAVEMENT MARKING | |
|------------------|--|
| A) | MARKING LINE PAINT 6-INCH (SKIPS) |
| B) | MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS) |
| C) | MARKING LINE PAINT 6-INCH (DOUBLE YELLOW) |



| LEGEND | |
|--------|-------------------------------------|
| | EXISTING SIGN MOUNTED ON POST(S) |
| | PROPOSED SIGN MOUNTED ON POST(S) |
| | DENOTES SIGN NUMBER |
| | ASPHALTIC RUMBLE STRIPS, CENTERLINE |

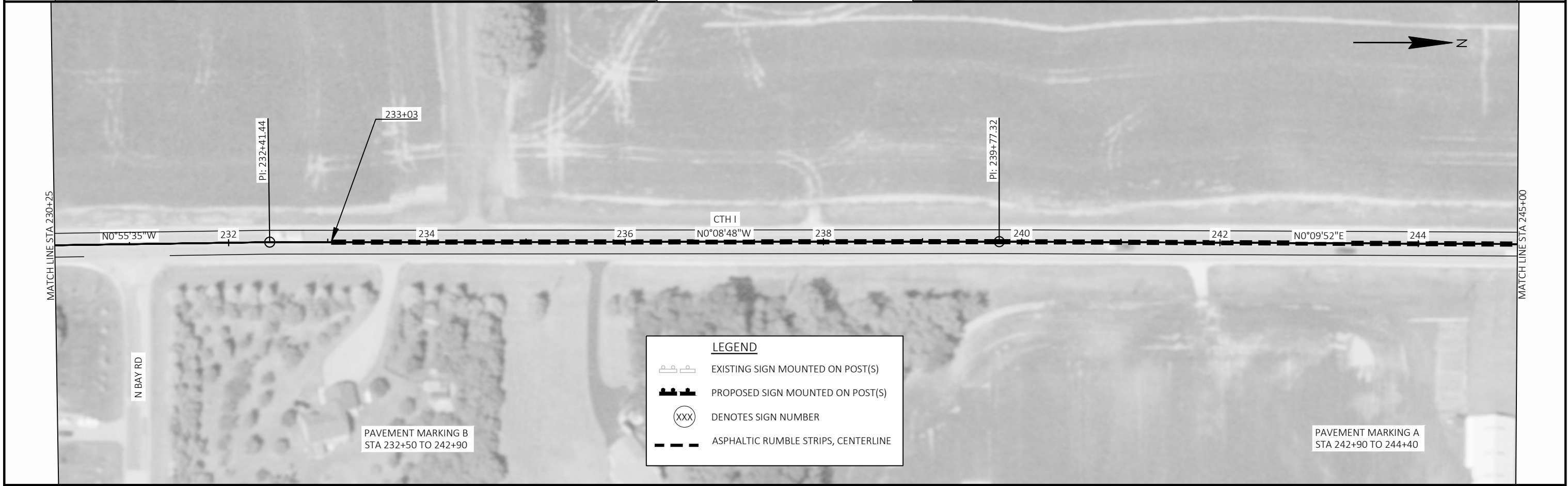
| | | | | | |
|------------------------|------------|-------------------|-------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PLAN SHEETS | SHEET | E |
|------------------------|------------|-------------------|-------------|-------|----------|



PAVEMENT MARKING B
STA 209+90 TO 219+50

PAVEMENT MARKING C
STA 219+50 TO 232+50

| PAVEMENT MARKING | |
|------------------|--|
| A) | MARKING LINE PAINT 6-INCH (SKIPS) |
| B) | MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS) |
| C) | MARKING LINE PAINT 6-INCH (DOUBLE YELLOW) |

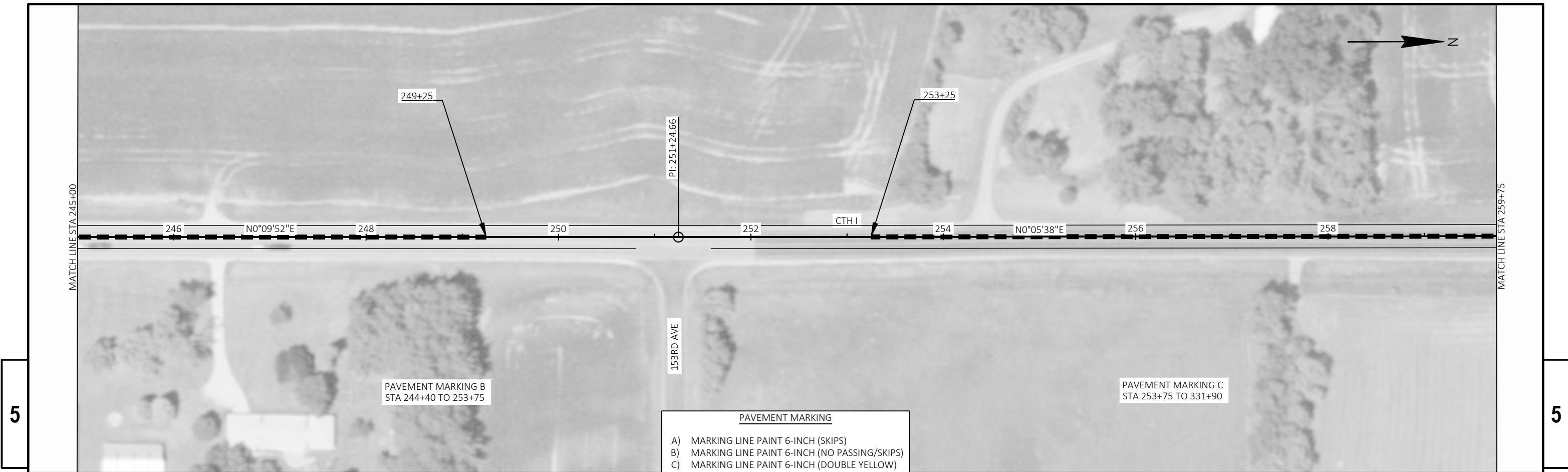


PAVEMENT MARKING B
STA 232+50 TO 242+90

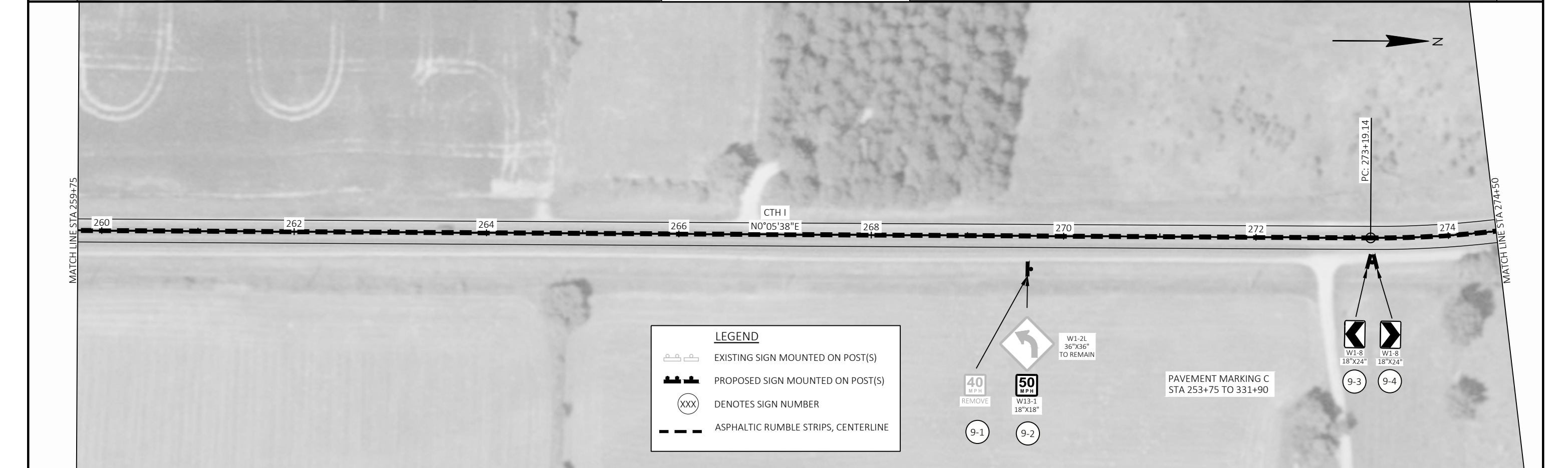
PAVEMENT MARKING A
STA 242+90 TO 244+40

| LEGEND | |
|--------|-------------------------------------|
| | EXISTING SIGN MOUNTED ON POST(S) |
| | PROPOSED SIGN MOUNTED ON POST(S) |
| | DENOTES SIGN NUMBER |
| | ASPHALTIC RUMBLE STRIPS, CENTERLINE |

| | | | | | |
|------------------------|------------|-------------------|-------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PLAN SHEETS | SHEET | E |
|------------------------|------------|-------------------|-------------|-------|----------|



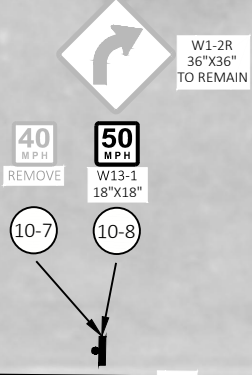
- PAVEMENT MARKING**
- A) MARKING LINE PAINT 6-INCH (SKIPS)
 - B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
 - C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)



- LEGEND**
- EXISTING SIGN MOUNTED ON POST(S)
 - PROPOSED SIGN MOUNTED ON POST(S)
 - DENOTES SIGN NUMBER
 - ASPHALTIC RUMBLE STRIPS, CENTERLINE



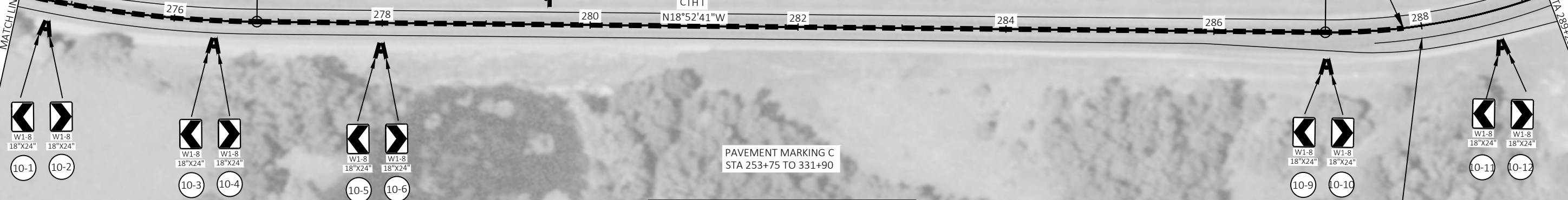
PI STA = 275+00.99
 Y = 383875.724
 X = 534667.207
 DELTA = 18°58'19" LT
 D = 5°15'52"
 T = 181.85'
 L = 360.37'
 R = 1088.34'
 PC STA = 273+19.14
 PT STA = 276+79.52



PT: 276+79.52

PC: 287+07.24

CTH I
 N18°52'41"W



PAVEMENT MARKING C
 STA 253+75 TO 331+90

STA 287+54 TO 289+54
 MARKING LINE PAINT 10-INCH

PAVEMENT MARKING
 A) MARKING LINE PAINT 6-INCH (SKIPS)
 B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
 C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)

PI STA = 291+37.33
 Y = 385427.189
 X = 534136.684
 DELTA = 71°54'16" LT
 D = 9°39'43"
 T = 430.09'
 L = 744.20'
 R = 593.00'
 PC STA = 287+07.24
 PT STA = 294+51.44

PAVEMENT MARKING C
 STA 253+75 TO 331+90

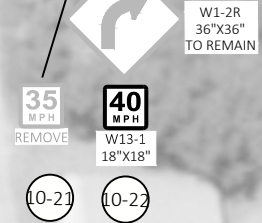
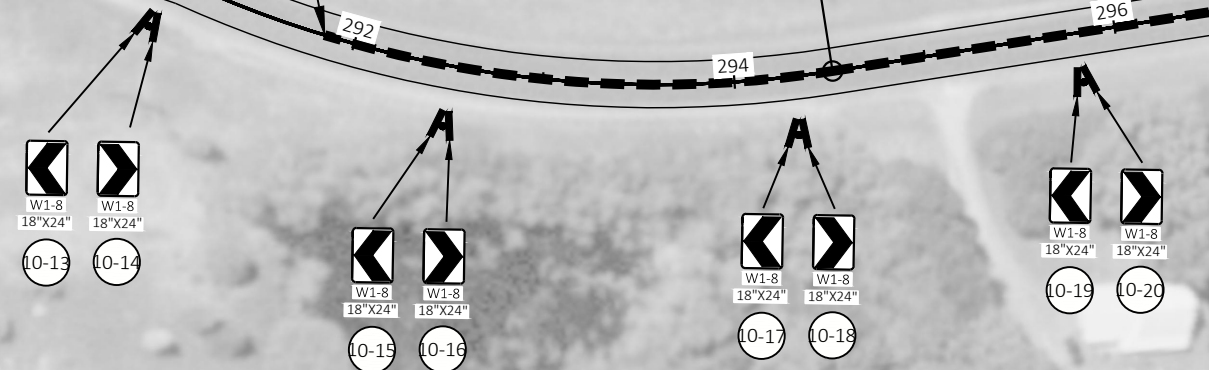
STA 287+54 TO 289+54
 MARKING LINE PAINT 10-INCH

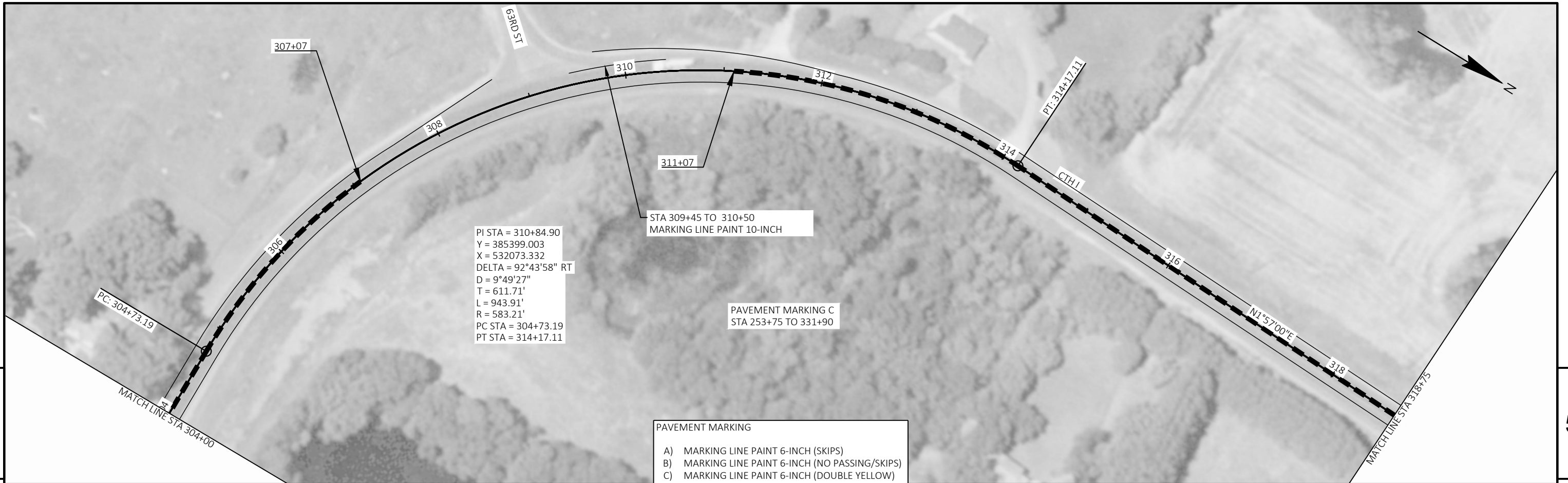
PT: 294+51.44

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DENOTES SIGN NUMBER
- ASPHALTIC RUMBLE STRIPS, CENTERLINE

160TH AVE



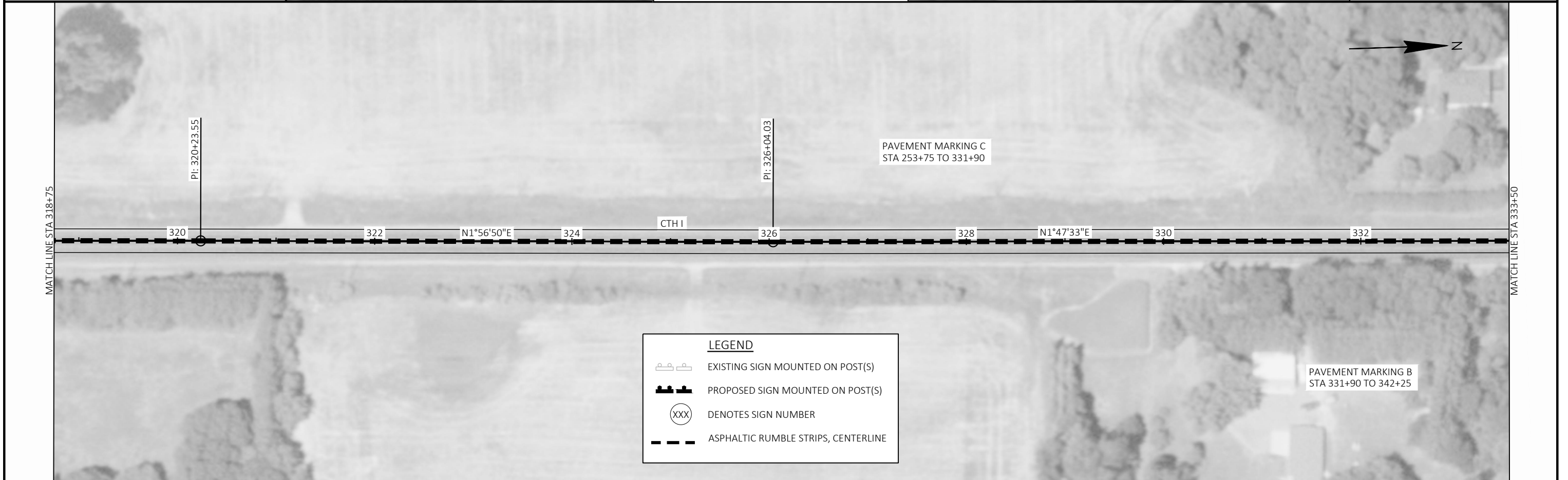


PI STA = 310+84.90
 Y = 385399.003
 X = 532073.332
 DELTA = 92°43'58" RT
 D = 9°49'27"
 T = 611.71'
 L = 943.91'
 R = 583.21'
 PC STA = 304+73.19
 PT STA = 314+17.11

STA 309+45 TO 310+50
 MARKING LINE PAINT 10-INCH

PAVEMENT MARKING C
 STA 253+75 TO 331+90

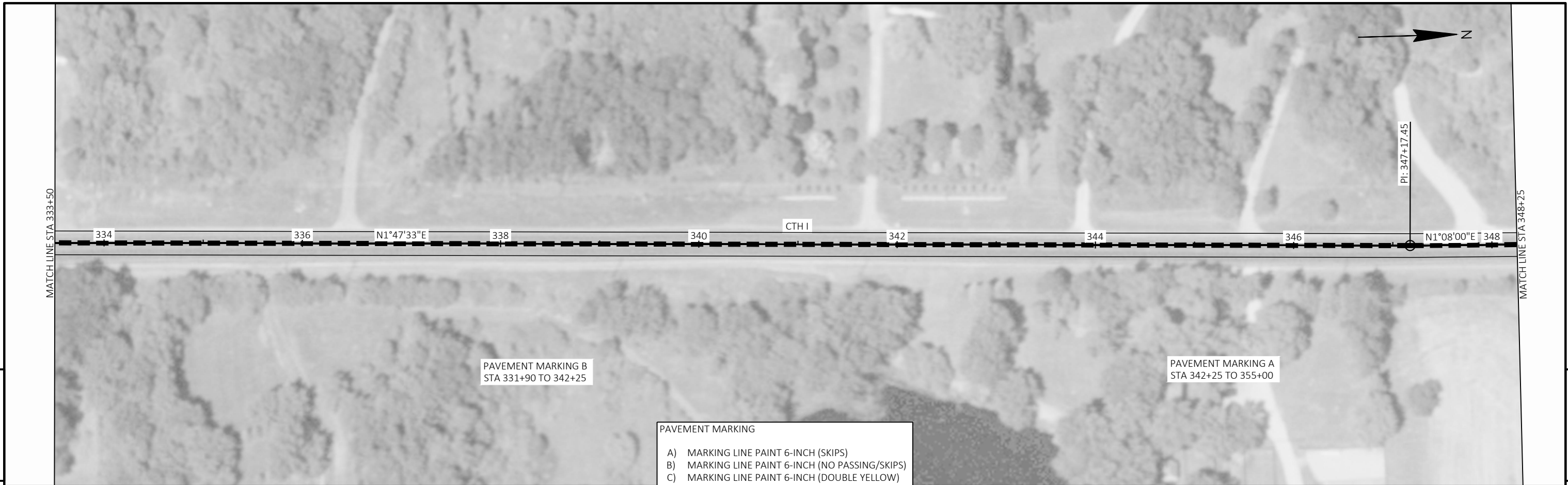
- PAVEMENT MARKING
- A) MARKING LINE PAINT 6-INCH (SKIPS)
 - B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
 - C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)



PAVEMENT MARKING C
 STA 253+75 TO 331+90

PAVEMENT MARKING B
 STA 331+90 TO 342+25

- LEGEND
- EXISTING SIGN MOUNTED ON POST(S)
 - PROPOSED SIGN MOUNTED ON POST(S)
 - DENOTES SIGN NUMBER
 - ASPHALTIC RUMBLE STRIPS, CENTERLINE



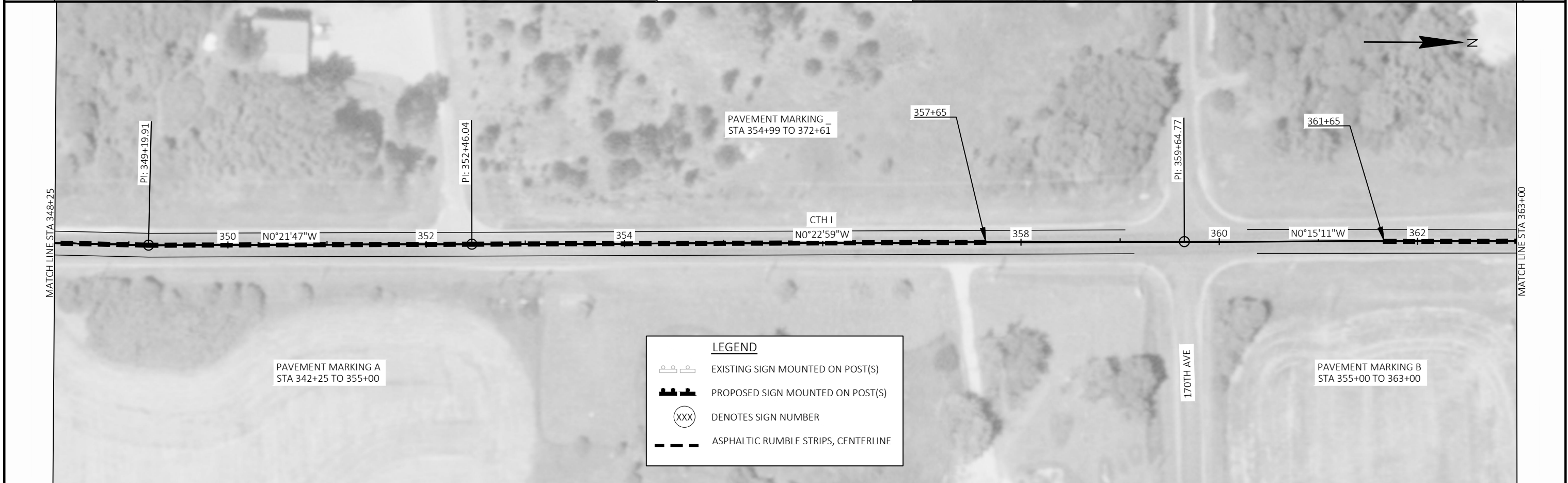
5

5

PAVEMENT MARKING B
STA 331+90 TO 342+25

PAVEMENT MARKING A
STA 342+25 TO 355+00

- PAVEMENT MARKING
- A) MARKING LINE PAINT 6-INCH (SKIPS)
 - B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
 - C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)



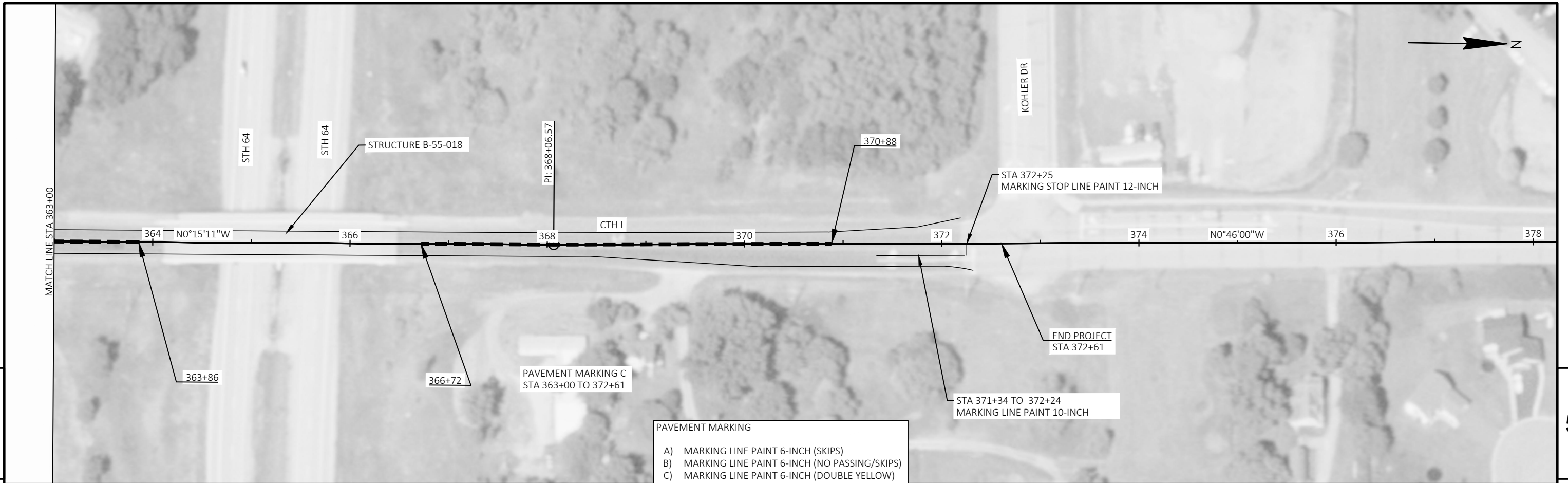
PAVEMENT MARKING A
STA 342+25 TO 355+00

PAVEMENT MARKING _
STA 354+99 TO 372+61

PAVEMENT MARKING B
STA 355+00 TO 363+00

- LEGEND
- EXISTING SIGN MOUNTED ON POST(S)
 - PROPOSED SIGN MOUNTED ON POST(S)
 - DENOTES SIGN NUMBER
 - ASPHALTIC RUMBLE STRIPS, CENTERLINE

| | | | | | |
|------------------------|------------|-------------------|-------------|-------|----------|
| PROJECT NO: 8939-03-78 | HWY: CTH I | COUNTY: ST. CROIX | PLAN SHEETS | SHEET | E |
|------------------------|------------|-------------------|-------------|-------|----------|



PAVEMENT MARKING

- A) MARKING LINE PAINT 6-INCH (SKIPS)
- B) MARKING LINE PAINT 6-INCH (NO PASSING/SKIPS)
- C) MARKING LINE PAINT 6-INCH (DOUBLE YELLOW)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- DENOTES SIGN NUMBER
- ASPHALTIC RUMBLE STRIPS, CENTERLINE

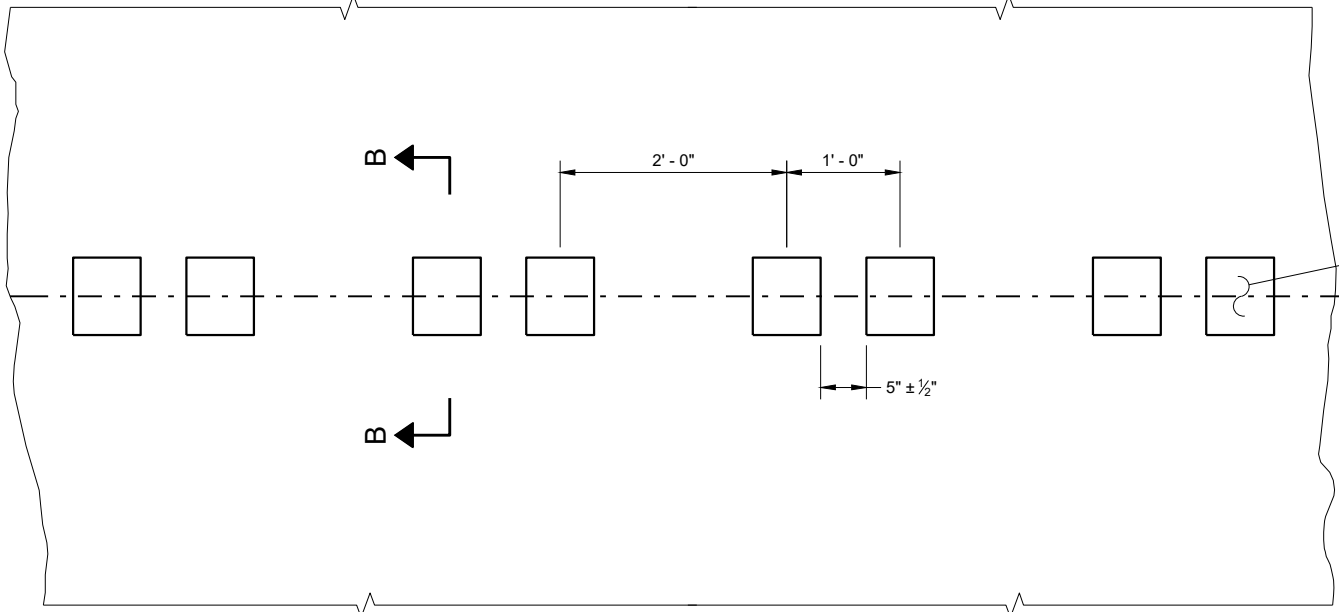
Standard Detail Drawing List

| | |
|-----------|--|
| 13A11-04A | CENTERLINE RUMBLE STRIPS - ASPHALT |
| 13A11-04B | CENTERLINE RUMBLE STRIPS - CONCRETE |
| 13A11-04D | CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS |
| 15C04-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC |
| 15C05-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M. P. H. OR LESS |
| 15C06-12 | SIGNING & MARKING FOR TWO LANE BRIDGES |
| 15C08-23A | PERMANENT LONGITUDINAL PAVEMENT MARKINGS |
| 15C08-23B | TEMPORARY LONGITUDINAL PAVEMENT MARKING |
| 15C08-23C | PAVEMENT MARKING (TURN LANES) |
| 15C12-09A | TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION |
| 15C19-08B | MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY |
| 15C35-06A | PAVEMENT MARKING (INTERSECTIONS) |
| 15D43-02 | TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS |

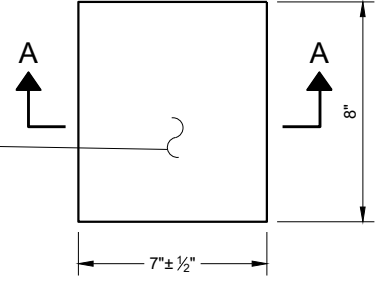
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

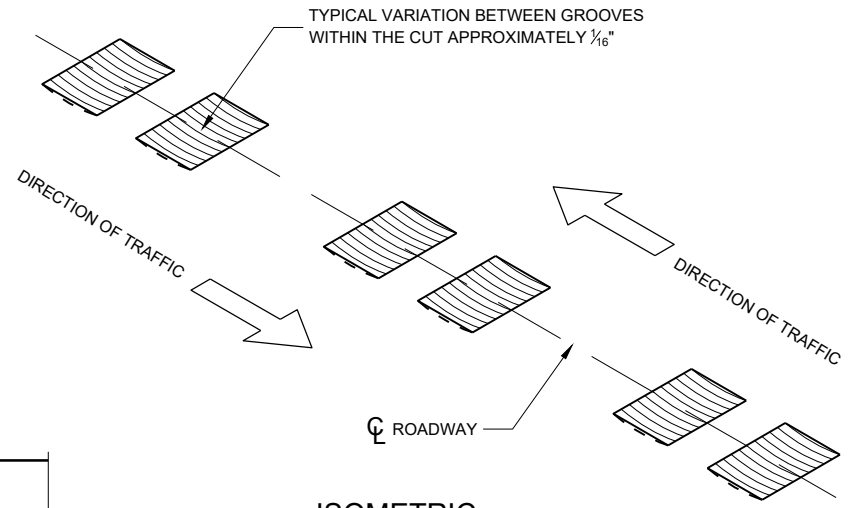
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



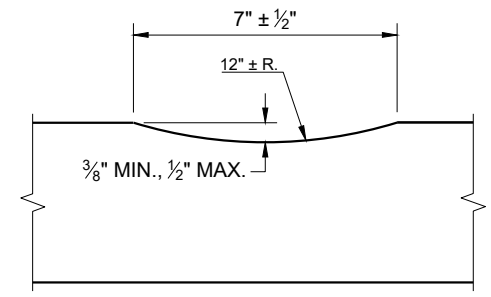
PLAN DETAIL VIEW



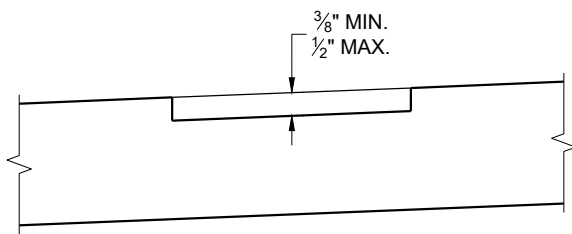
PLAN VIEW (SINGLE GROOVE)



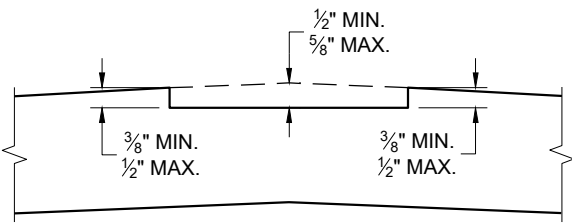
ISOMETRIC



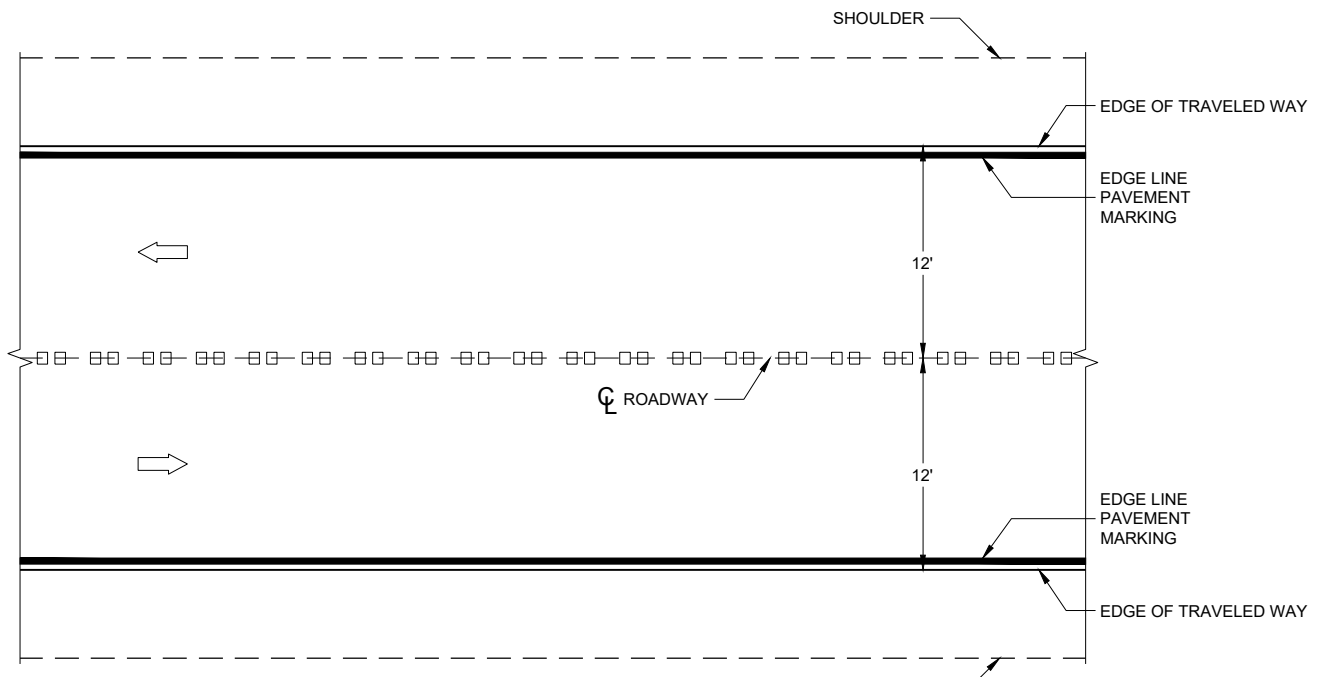
SECTION A - A



SECTION B - B SUPERELEVATED ROADWAY



SECTION B - B CROWNED ROADWAY



PLAN VIEW

CENTERLINE RUMBLE STRIPS - ASPHALT

| |
|--|
| CENTERLINE RUMBLE STRIPS - ASPHALT |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION |

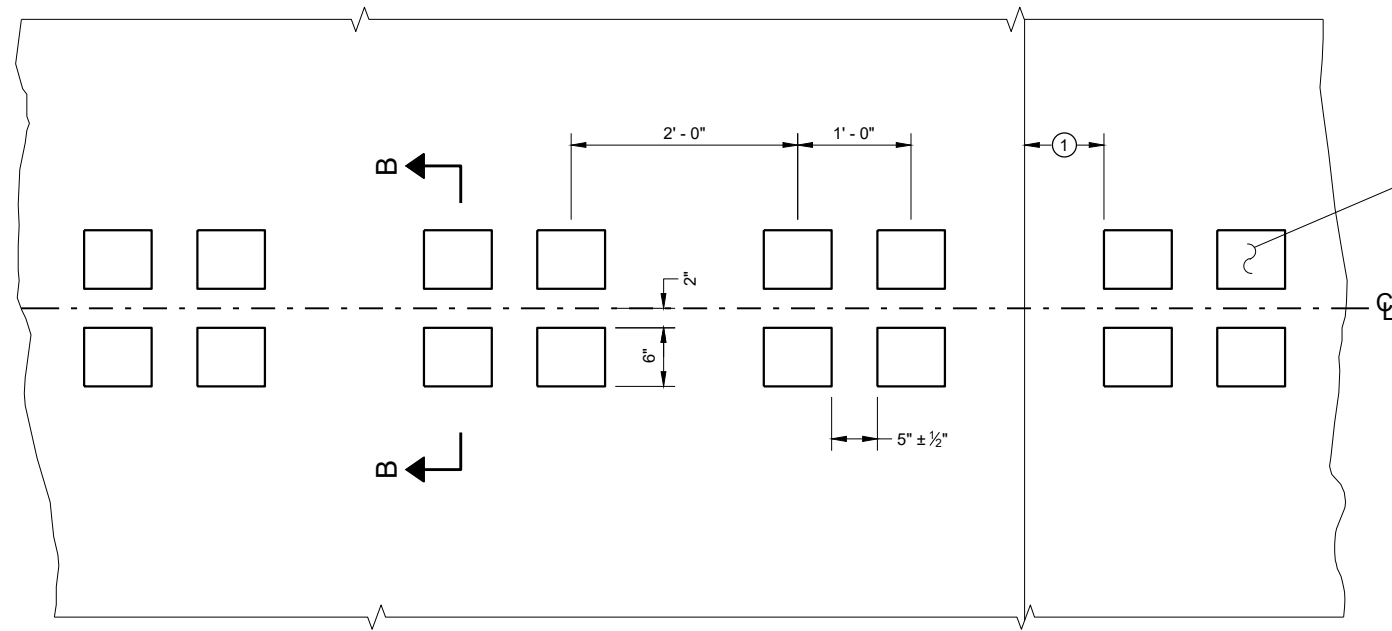
GENERAL NOTES

SDD 13A11, SHEET "d" SHOWS THE LOCATION OF RUMBLE STRIPS AT INTERSECTIONS, INTERSECTIONS WITH LEFT TURN LANES, BRIDGES, COMMERCIAL AND RESIDENTIAL DRIVEWAYS AND RAILROAD CROSSINGS.

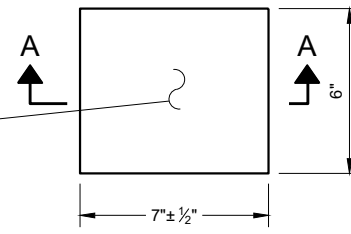
TEMPORARY PAVEMENT MARKINGS ARE TYPICALLY PLACED PRIOR TO RUMBLE STRIP INSTALLATION. PERMANENT MARKINGS ARE INSTALLED AFTER RUMBLE STRIP INSTALLATION.

CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

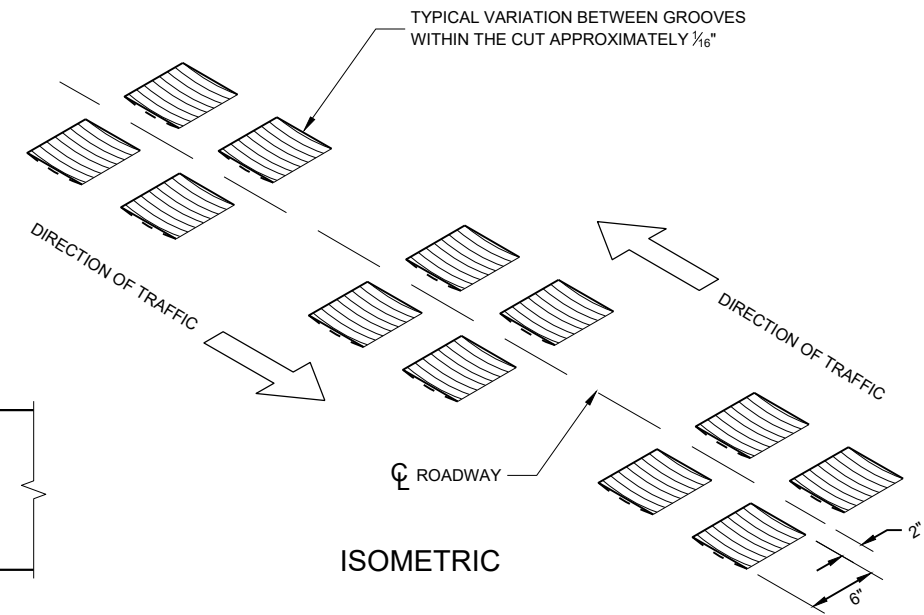
① CONCRETE PAVEMENT RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES FROM TRANSVERSE JOINTS.



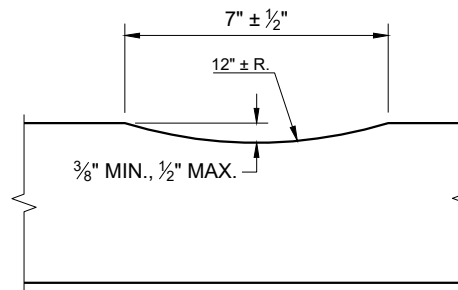
PLAN DETAIL VIEW



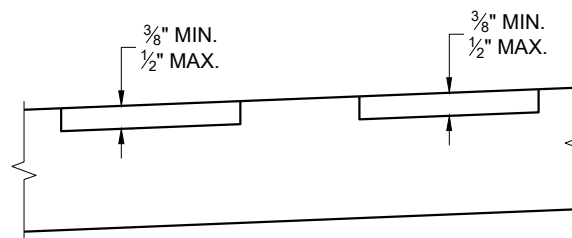
**PLAN VIEW
(SINGLE GROOVE)**



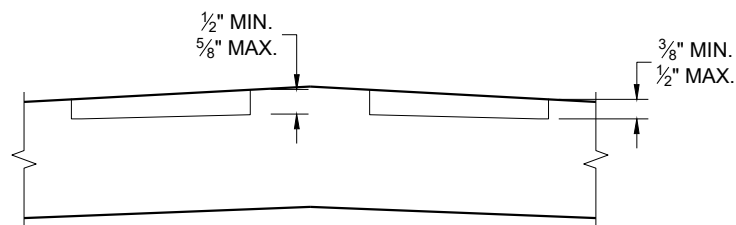
ISOMETRIC



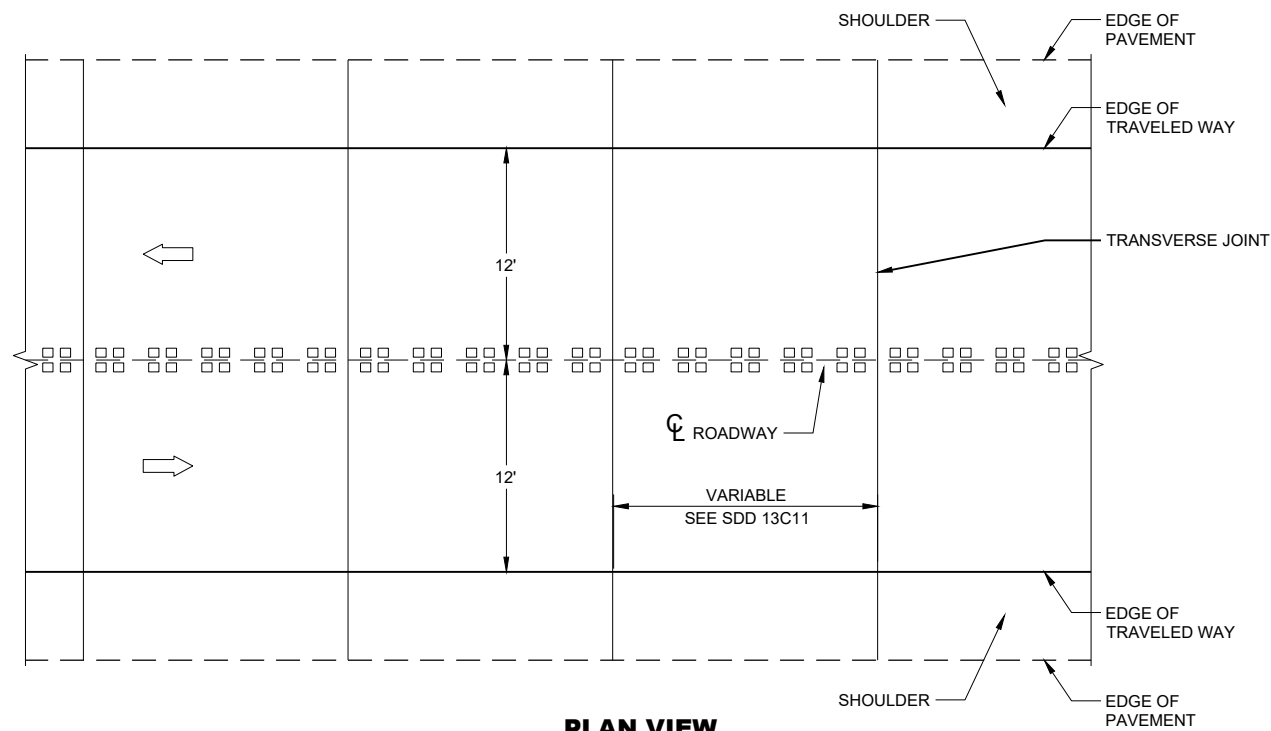
SECTION A - A



**SECTION B - B
SUPERELEVATED ROADWAY**



**SECTION B - B
CROWNED ROADWAY**

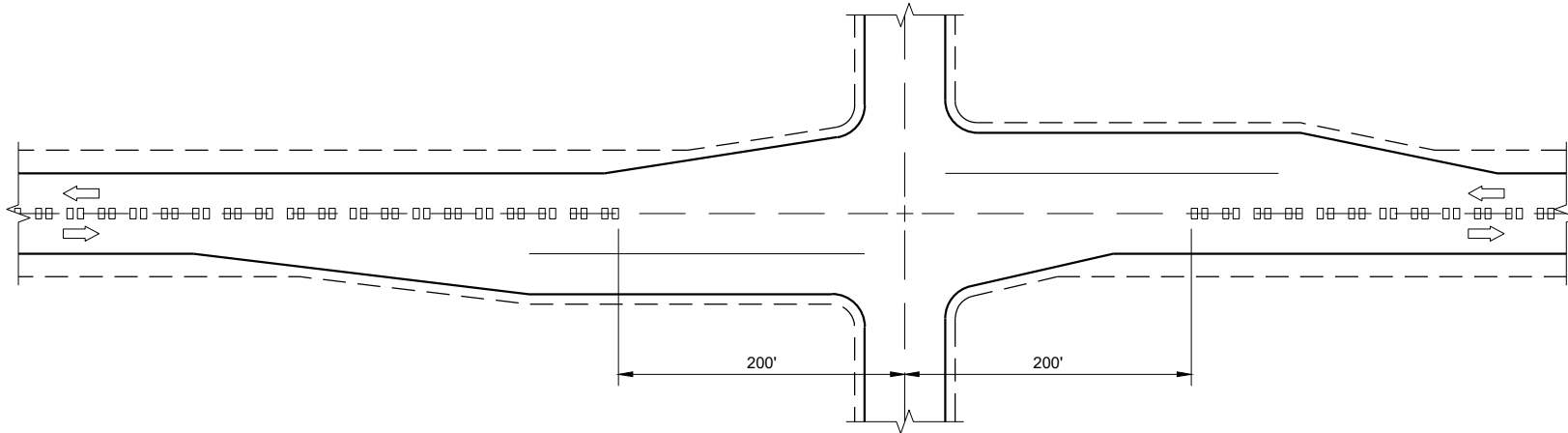


PLAN VIEW

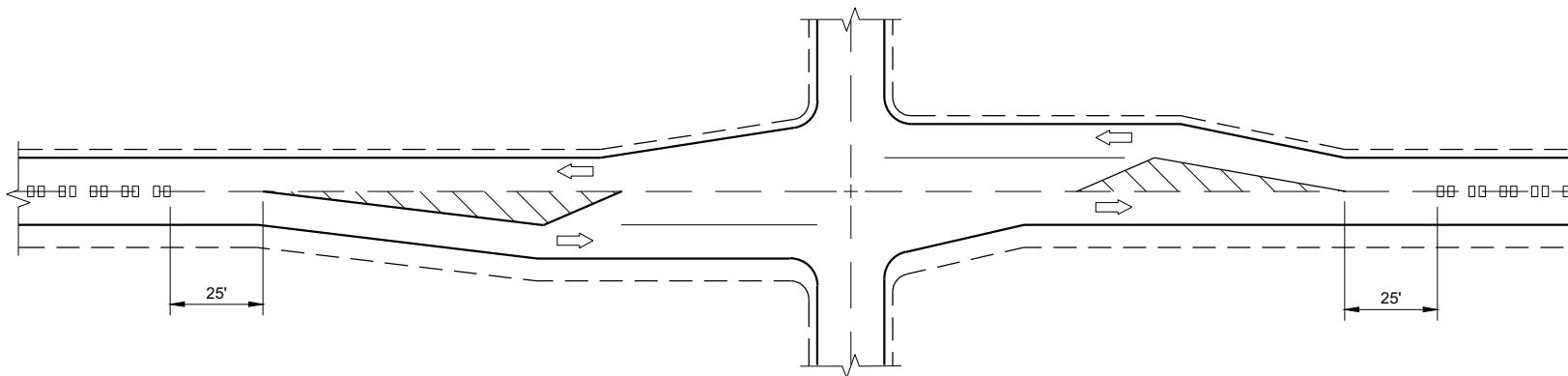
CENTERLINE RUMBLE STRIPS - CONCRETE

CENTERLINE RUMBLE STRIPS - CONCRETE

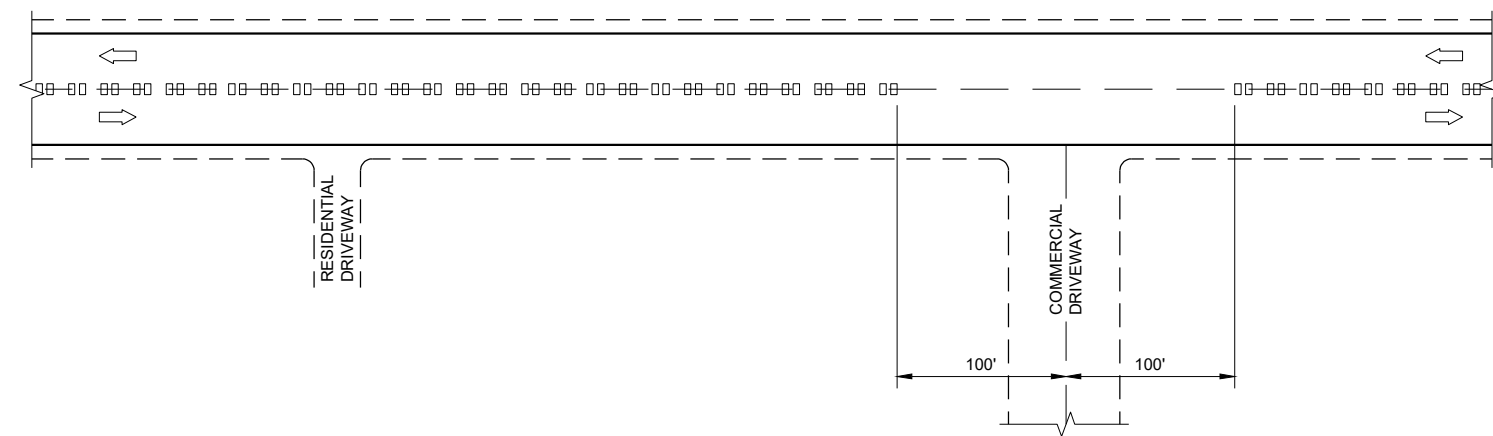
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTERLINE GROOVES AT INTERSECTIONS



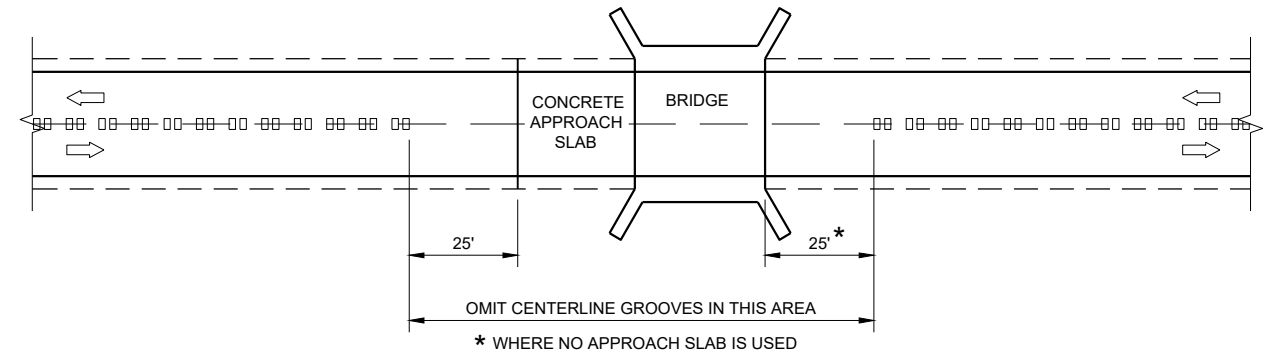
**CENTERLINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)**



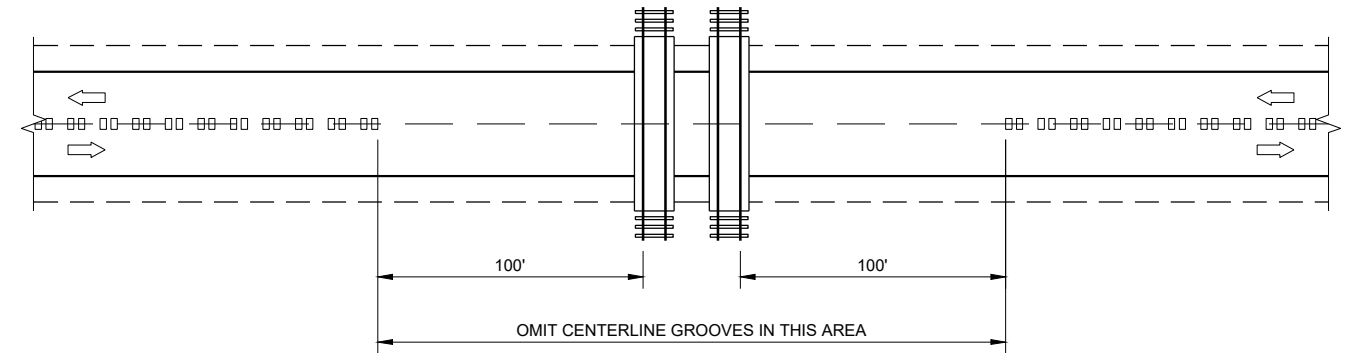
CENTERLINE GROOVES AT DRIVEWAYS^①

GENERAL NOTES

① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

6

6

SDD 13A11 - 04d

SDD 13A11 - 04d

| | |
|--|---|
| CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED May 2023 DATE | /S/ John Jenkins ROADWAY STANDARDS DEVELOPMENT ENGINEER |
| <small>FHWA</small> | |

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 MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.




ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

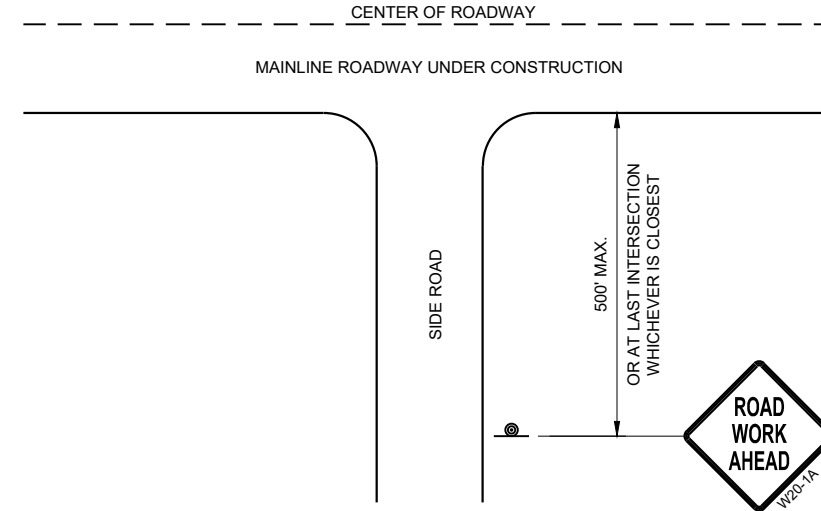
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

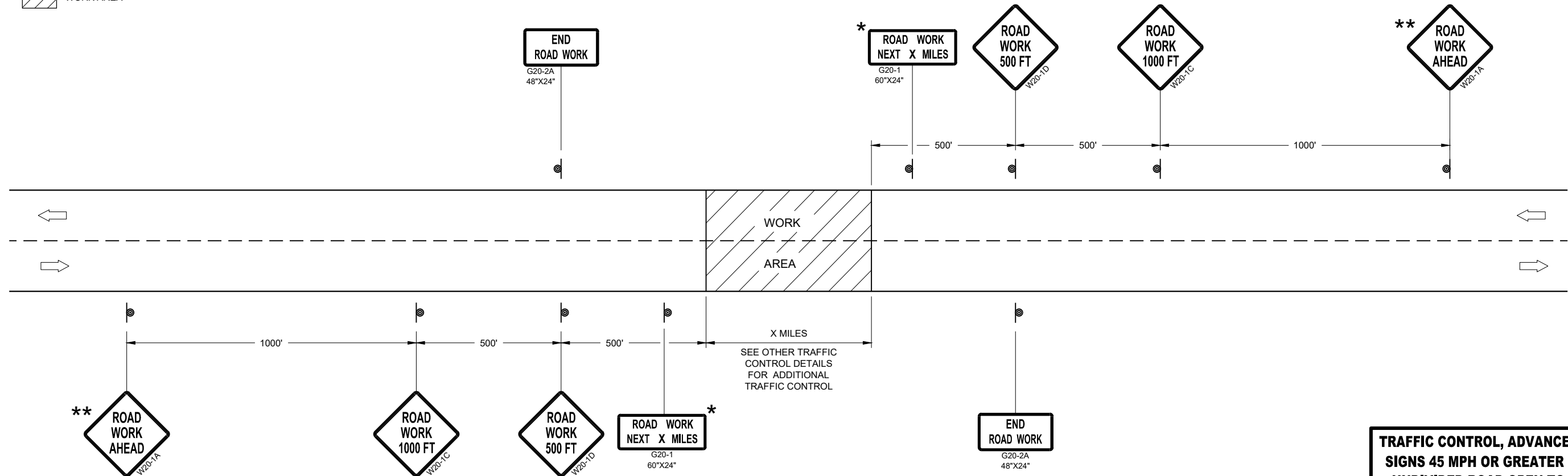
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



**TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL**



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

**TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 45 MPH OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE July 2018 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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 MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.




ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

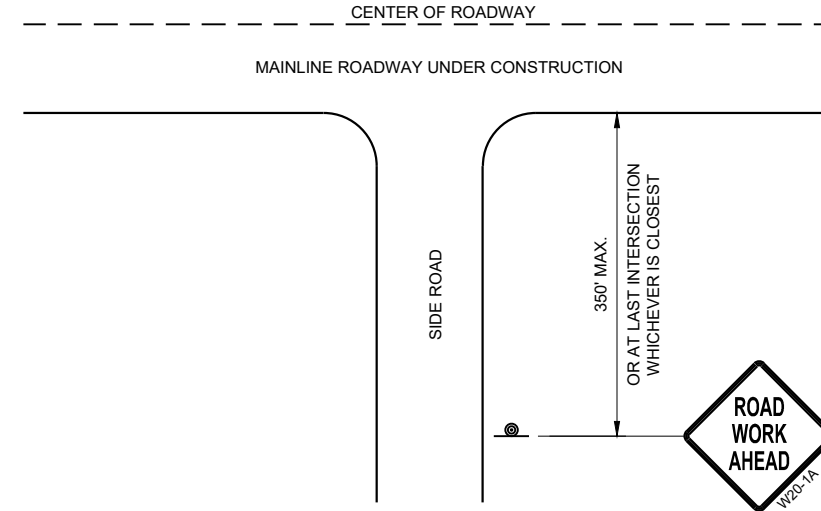
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

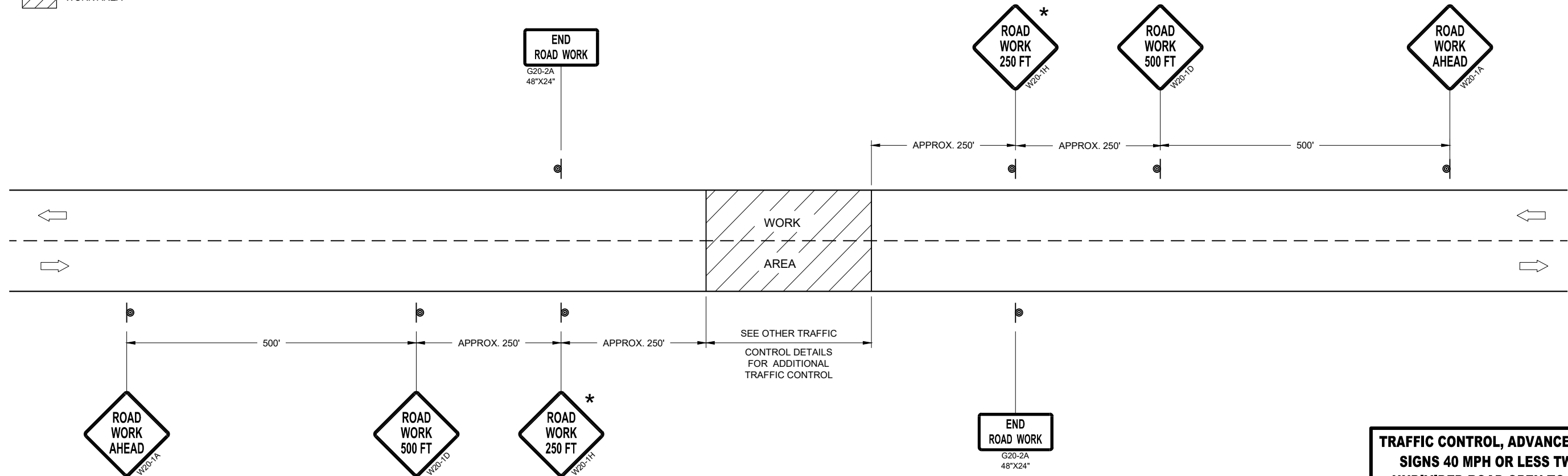
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



**TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL**



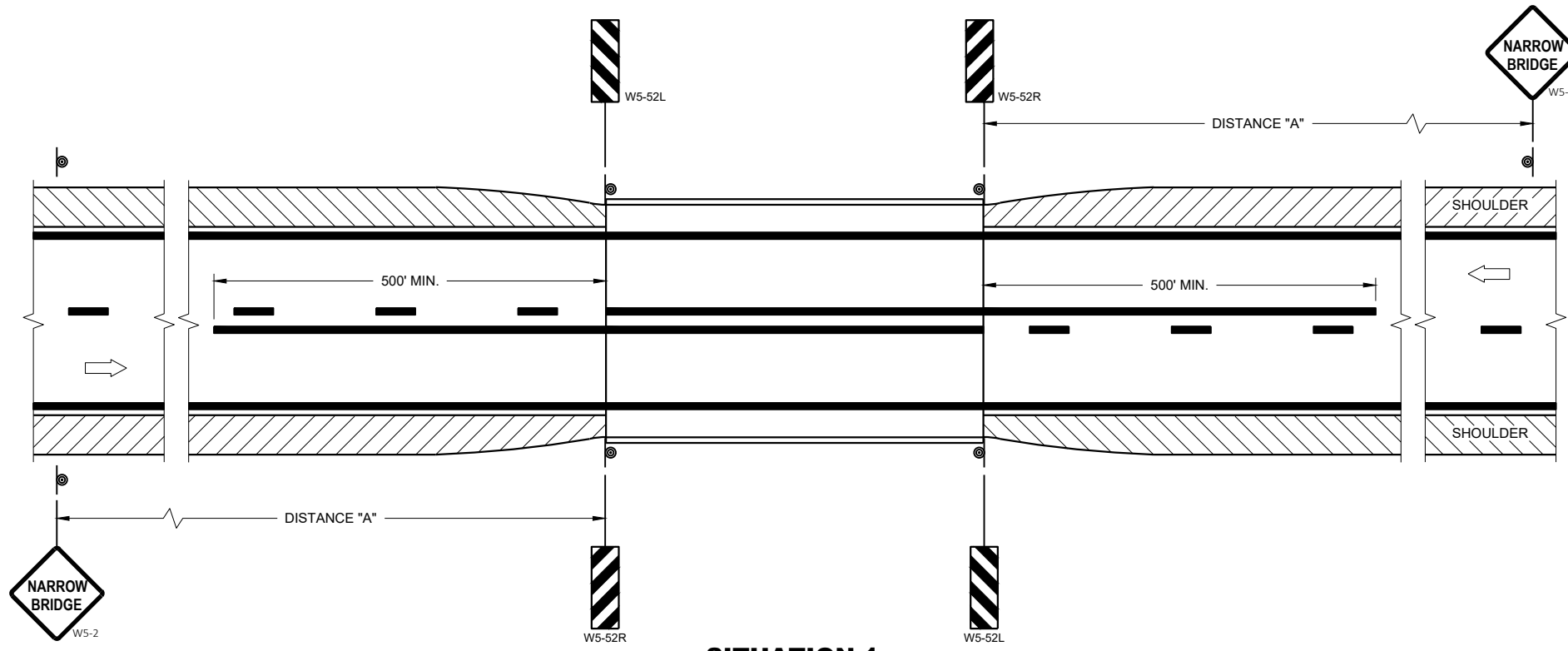
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

**TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 40 MPH OR LESS TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC**

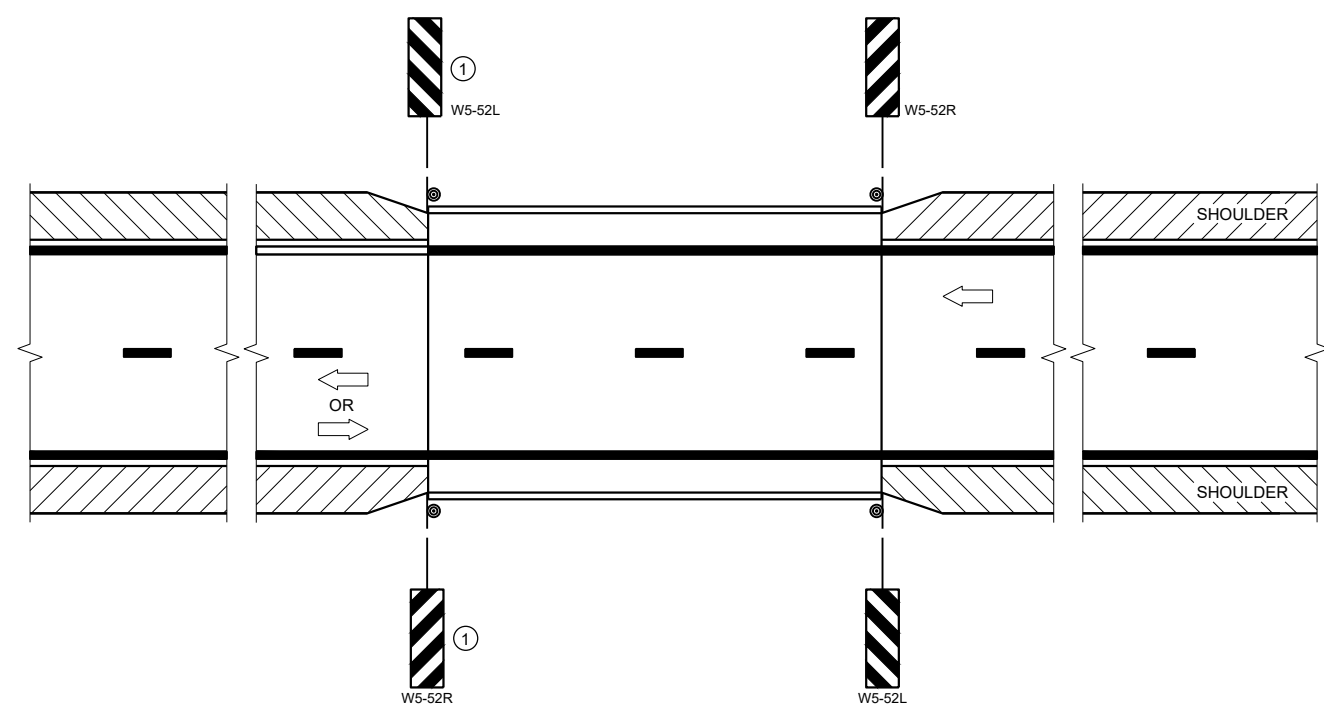
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE July 2018 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA



SITUATION 1
 WARRANTING CRITERIA:
 BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SITUATION 2
 WARRANTING CRITERIA:
 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

① OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC

DISTANCE TABLE

| POSTED OR 85TH PERCENTILE SPEED | DISTANCE "A" |
|---------------------------------|--------------|
| 25 | 150' |
| 30 | 200' |
| 35 | 250' |
| 40 | 300' |
| 45 | 400' |
| 50 | 550' |
| 55 | 700' |

6

6

SDD 15C06-12

SDD 15C06-12

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED
 May 2023 DATE /S/ Jeannie Silver
 STATE SIGNING AND MARKING ENGINEER




FHWA

GENERAL NOTES

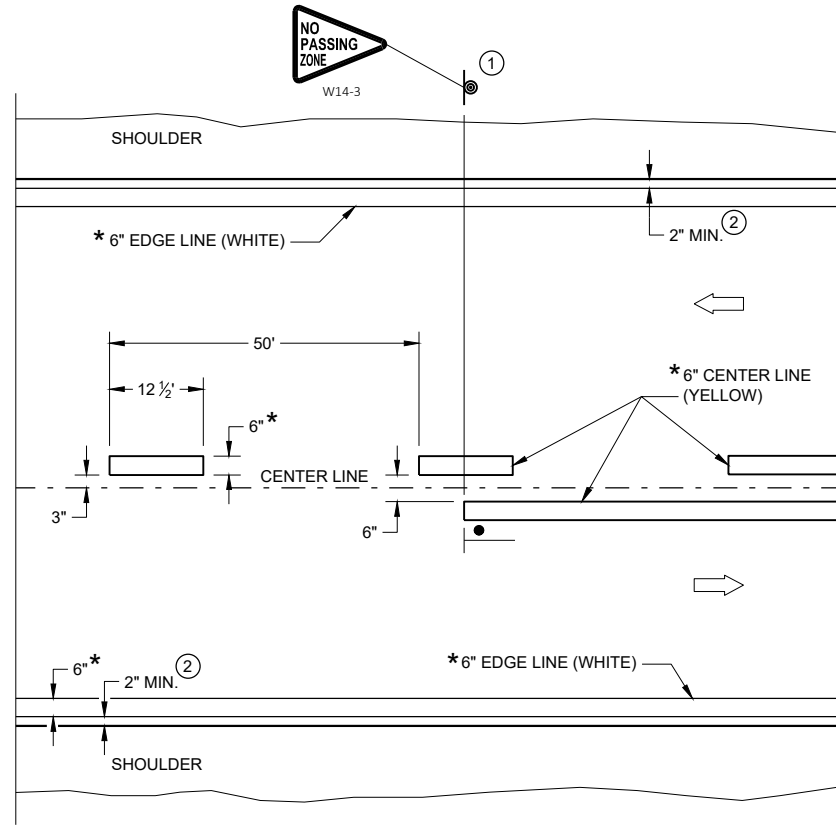
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

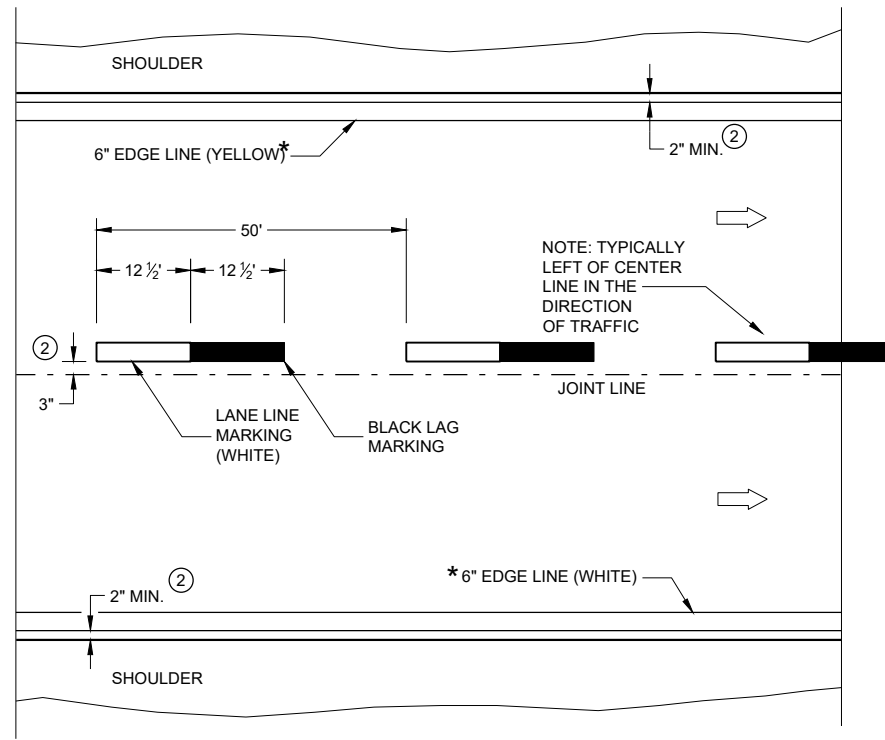
LEGEND

-  "T" MARKING
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



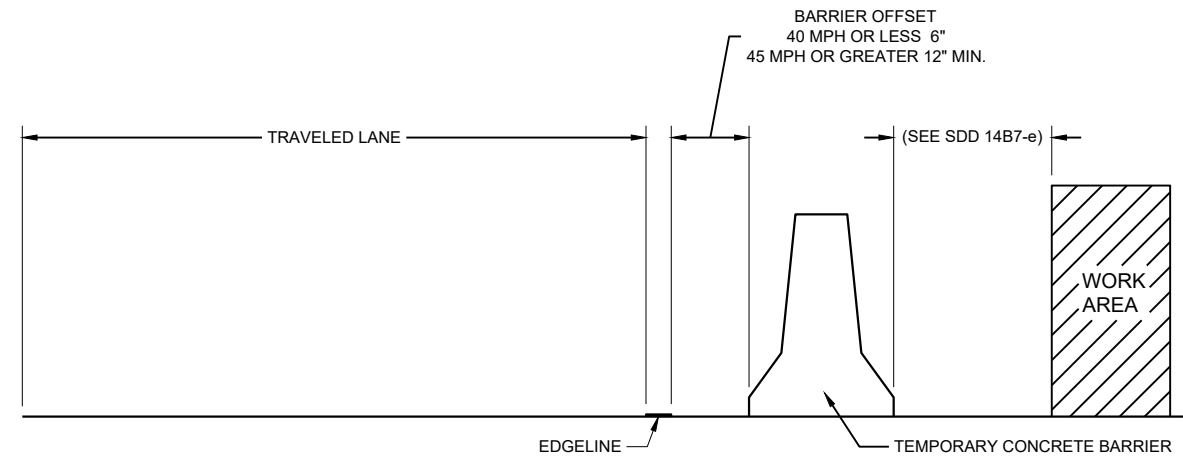
ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Jeannie Silver
DATE STATEWIDE SIGNING AND MARKING ENGINEER



TEMPORARY BARRIER OFFSET FROM EDGELINE

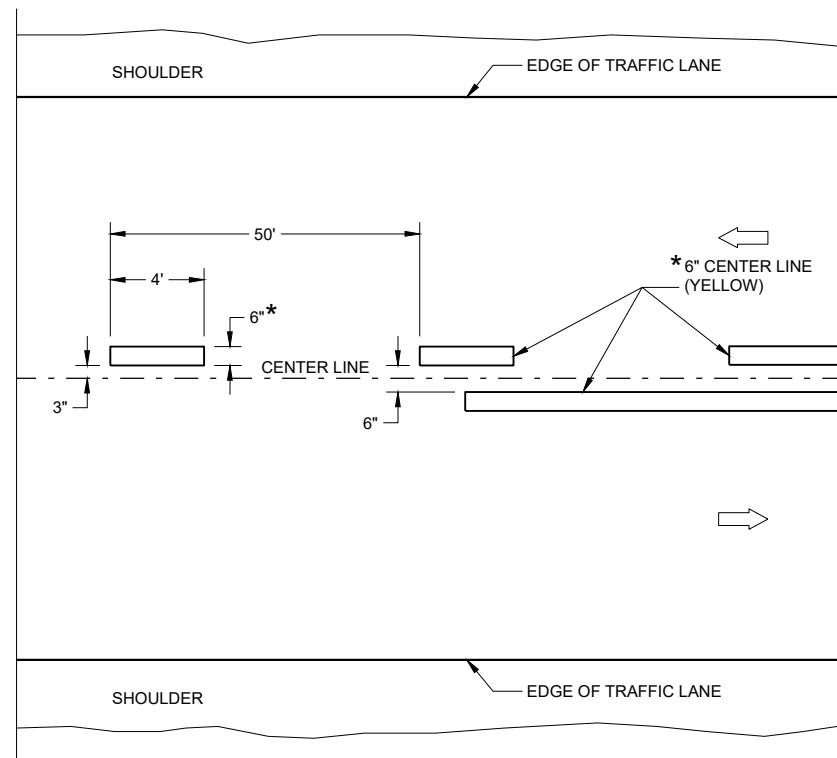
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

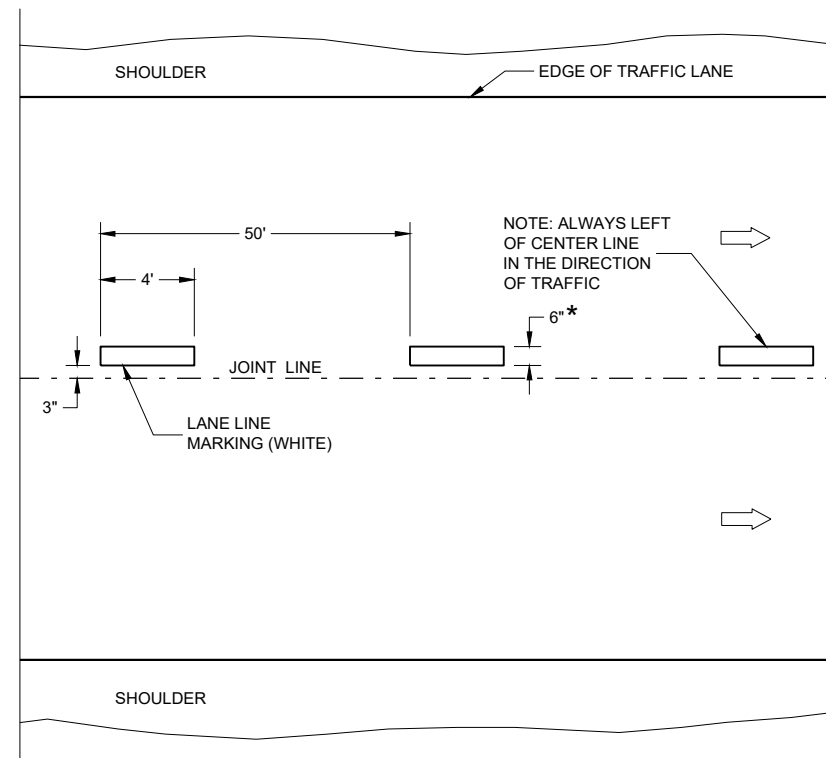
LEGEND

➡ DIRECTION OF TRAFFIC

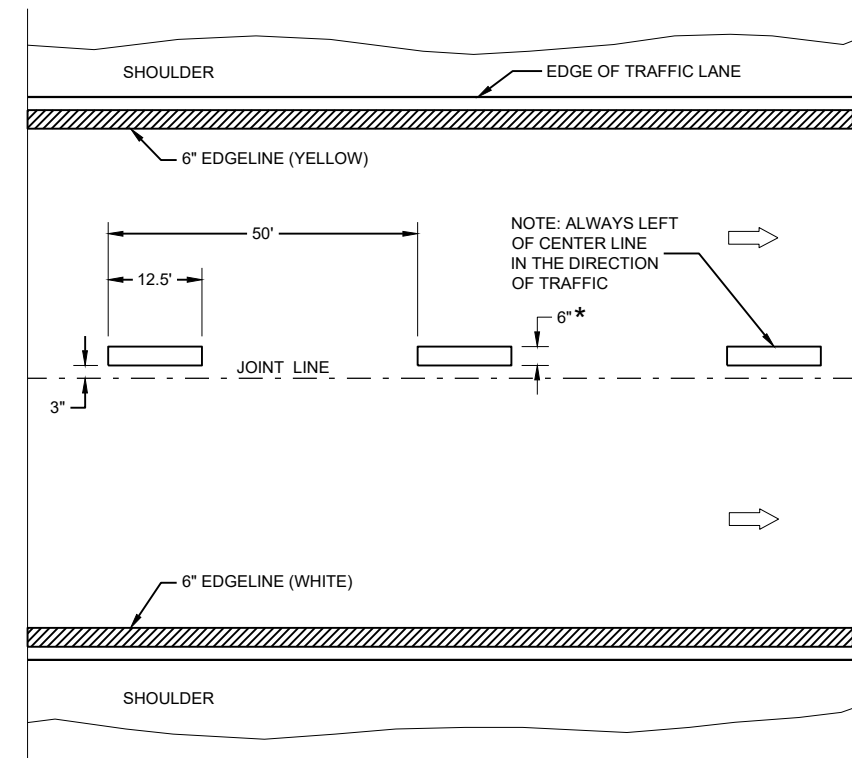
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Jeannie Silver
DATE STATEWIDE SIGNING AND MARKING ENGINEER

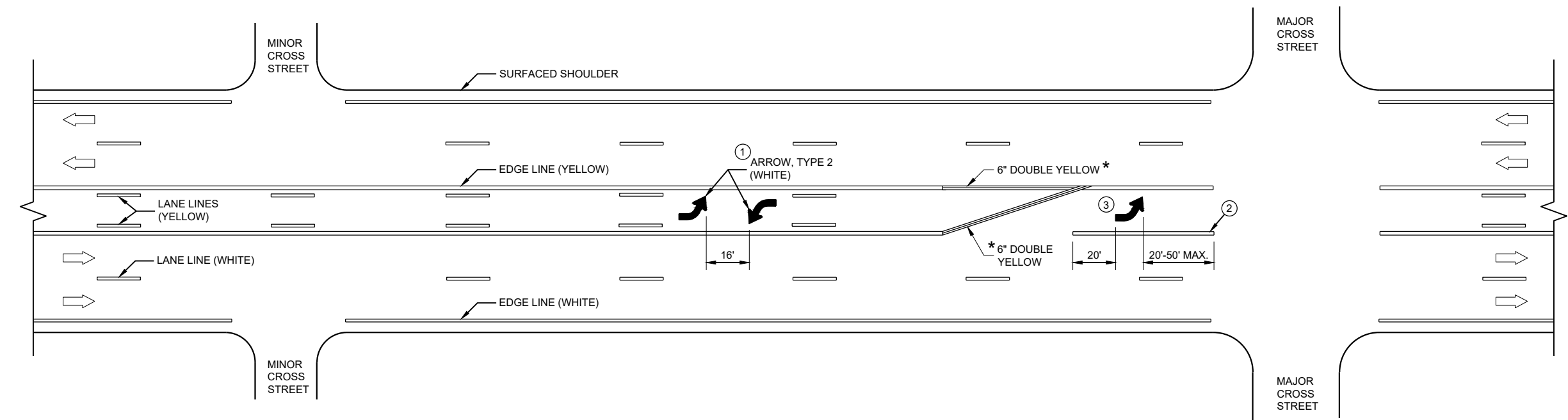
FHWA

GENERAL NOTES

- ① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ② 10" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

➡ DIRECTION OF TRAFFIC






* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

| |
|--|
| PAVEMENT MARKING (TURN LANES) |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION |

LEGEND

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

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.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND 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.

FLAGGING

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 REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' 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.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

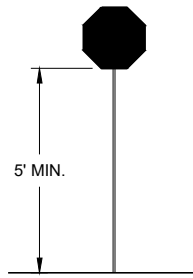
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

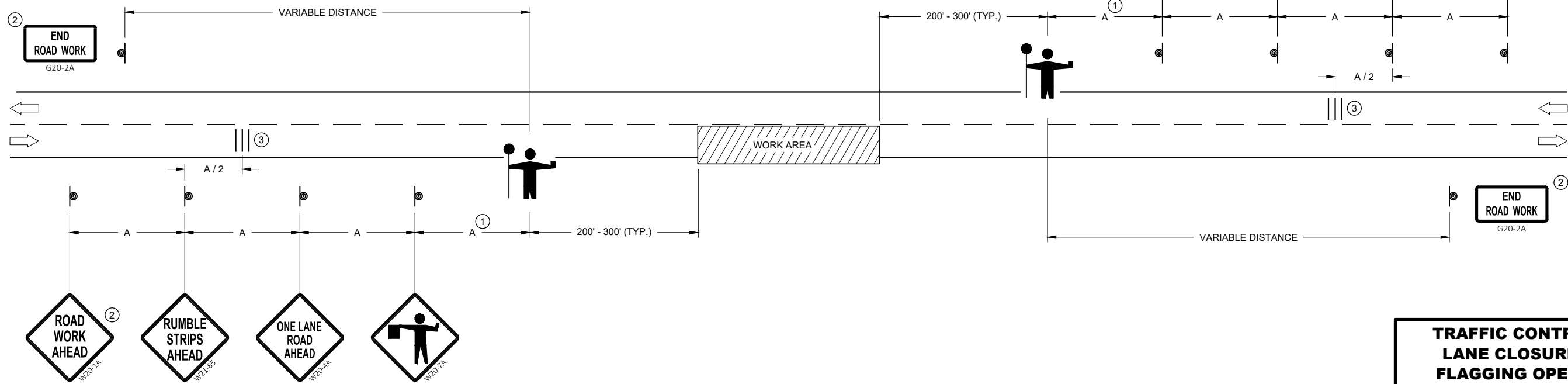
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

| SPEED LIMIT | SPACING "A" |
|-------------|-------------|
| 25-30 MPH | 200' |
| 35-40 MPH | 350' |
| 45-55 MPH | 500' |



W03-4

USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".








TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2022 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

LEGEND

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (MERGE)
-  FLASHING ARROW PANEL (CAUTION)

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.

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 AND 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.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

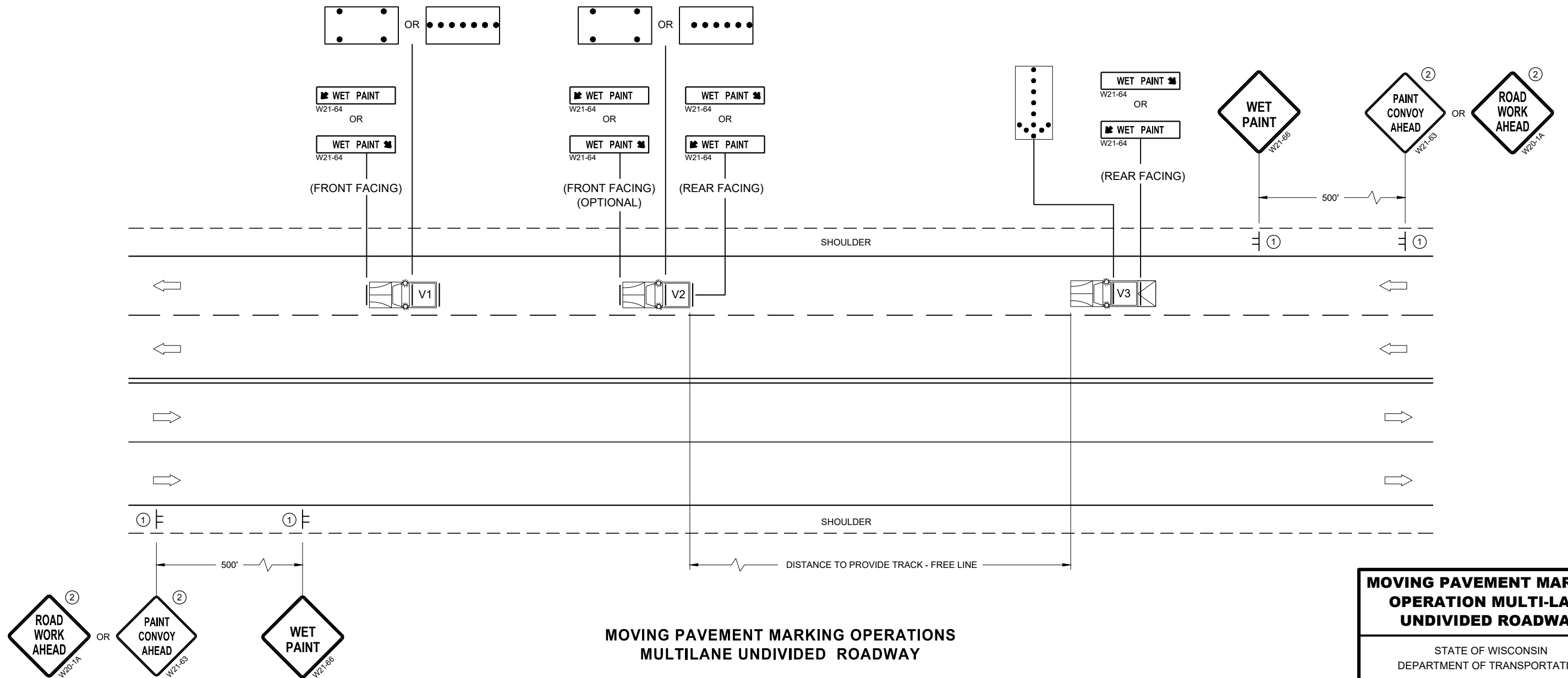
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

6

6

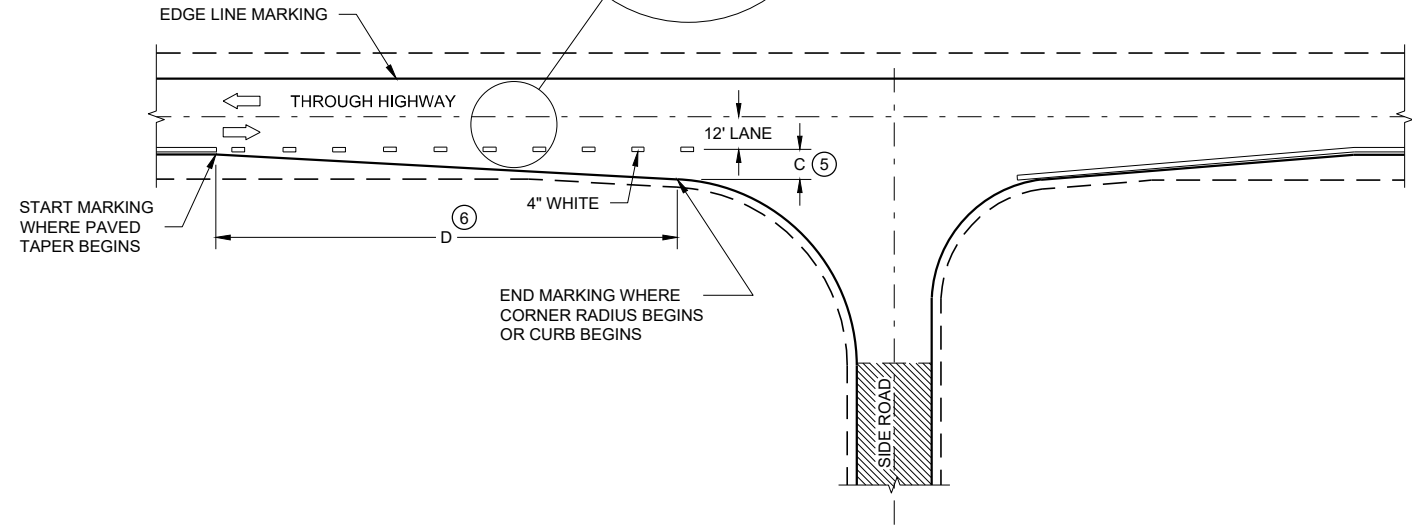
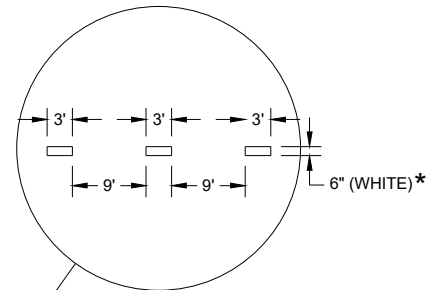


**MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY**

| | |
|---|--|
| MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED February 2023 DATE | /S/ Andrew Heidtke WORK ZONE ENGINEER |
| FHWA | |

SDD 15C19-08b

SDD 15C19-08b



MINOR INTERSECTION

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

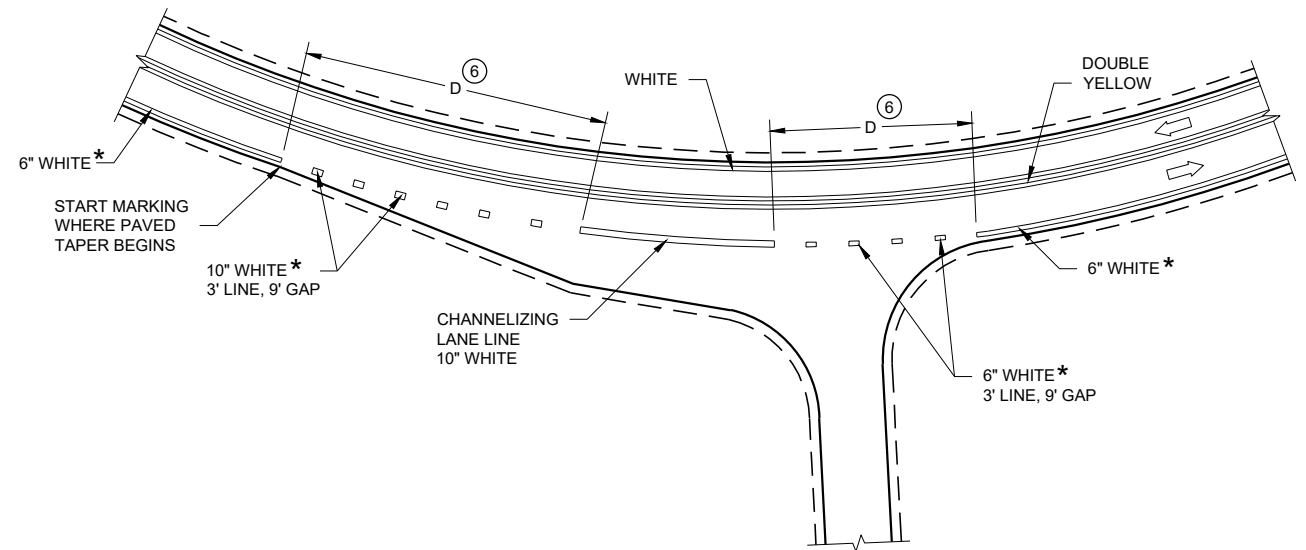
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

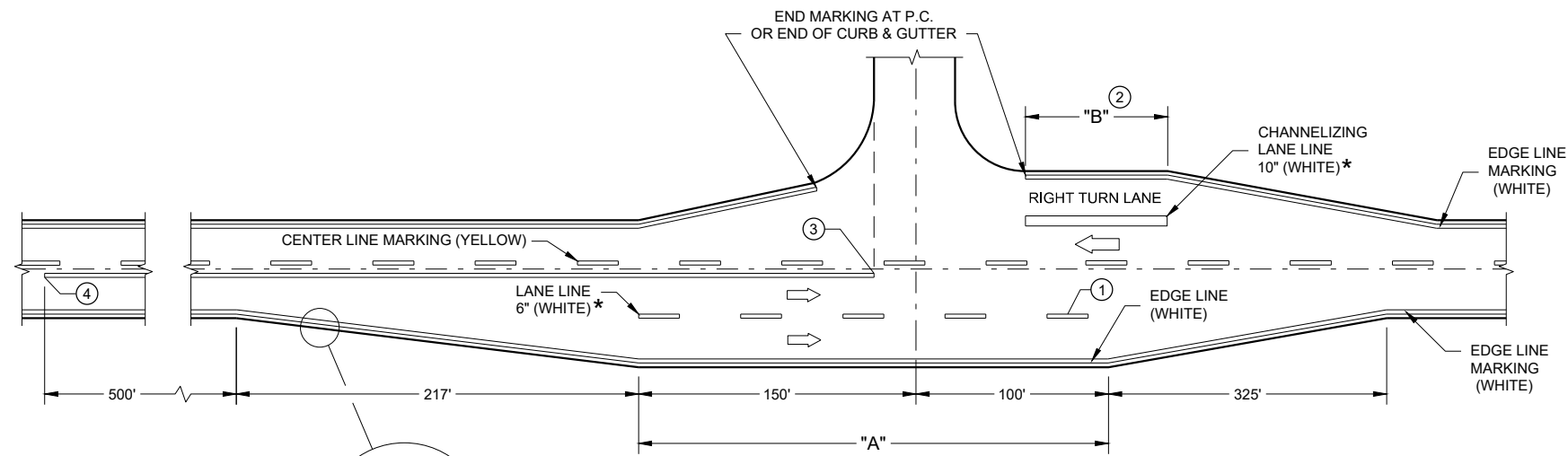
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
- ⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

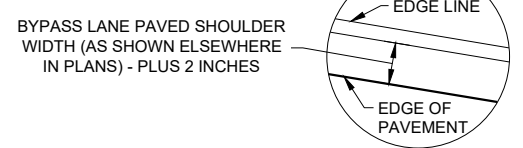
➔ DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



**MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**

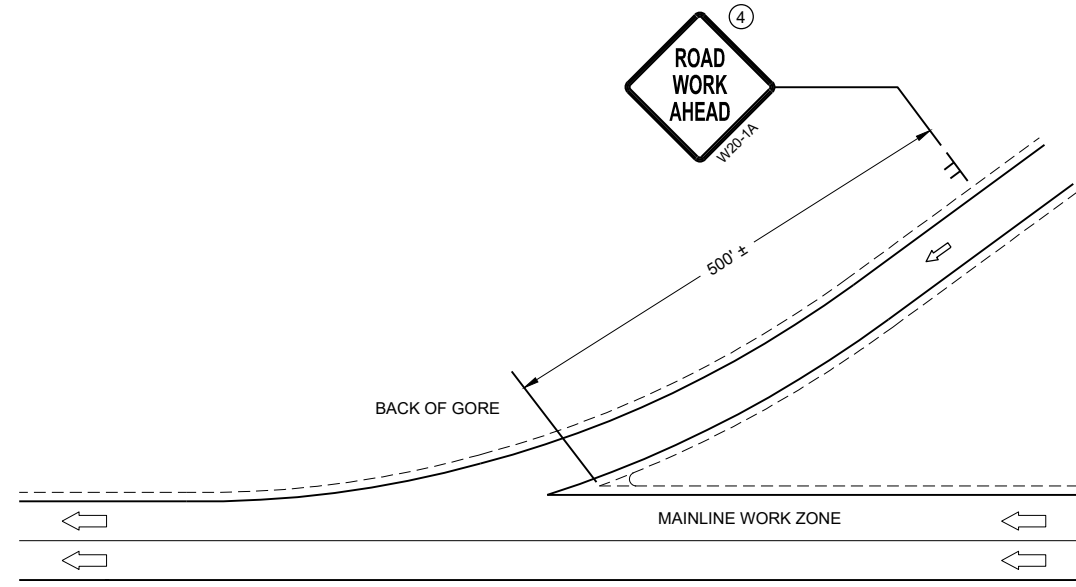


**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- V1 SHADOW VEHICLE 1
- V2 SHADOW VEHICLE 2
- V3 ADVANCE WARNING TRUCK
- TRAFFIC CONTROL DRUM
- ◻ TRUCK MOUNTED ATTENUATOR (TMA)
- ⊥ SIGN ON TEMPORARY SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ◻ FLASHING ARROW PANEL (MERGE)
- ◻ FLASHING ARROW PANEL (CAUTION)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ WORK AREA



GENERAL NOTES

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

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.

WHEN WORK ACTIVITY BLOCKS THE RIGHT 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 DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

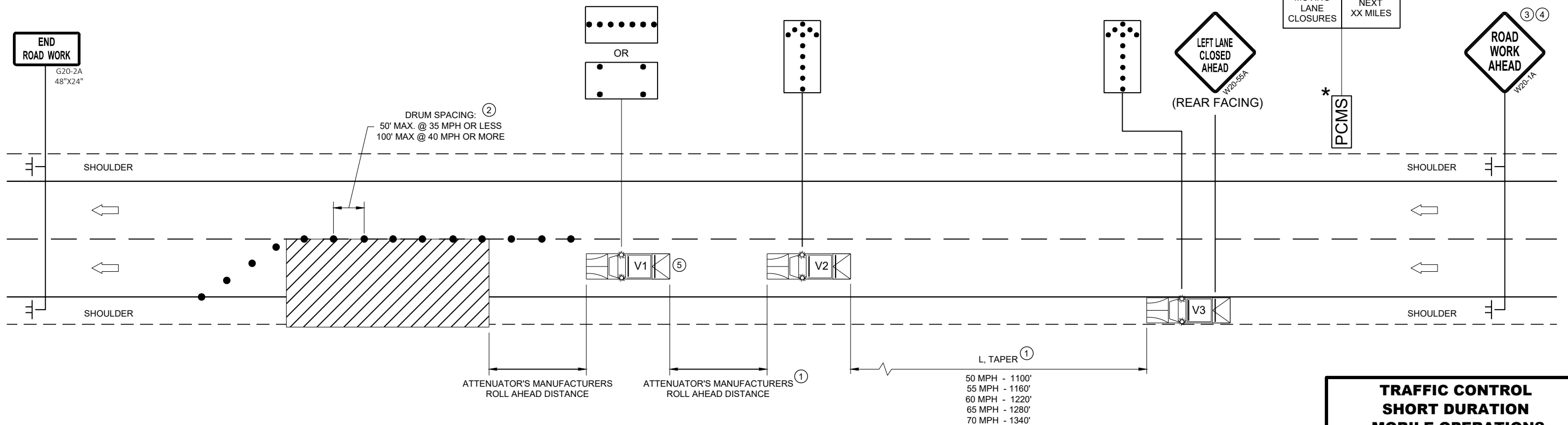
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

- ① DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE 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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ② DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.
- ③ WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.
- ④ SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ⑤ SHADOW VEHICLE 1 (V1) IS OPTIONAL

* PCMS OPTIONAL

PCMS MESSAGING

| FRAME 1 | FRAME 2 |
|----------------------|---------------|
| MOVING LANE CLOSURES | NEXT XX MILES |



**TRAFFIC CONTROL
SHORT DURATION
MOBILE OPERATIONS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

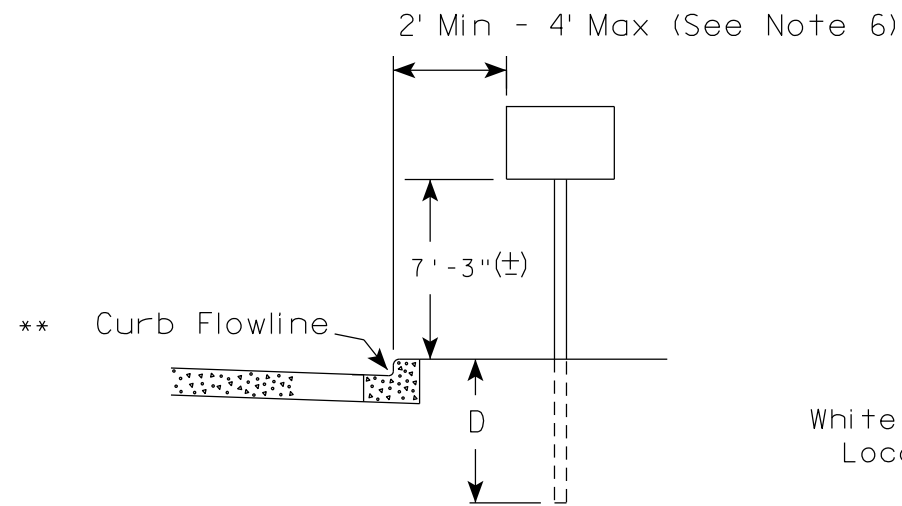
6

6

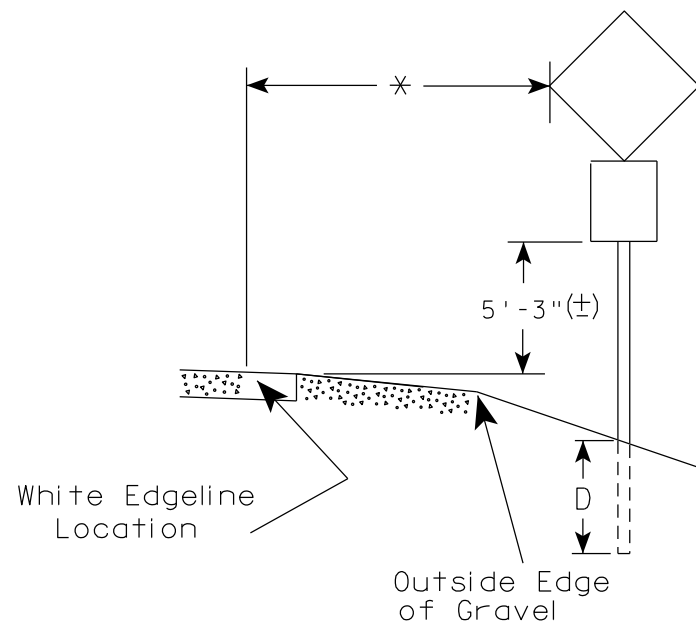
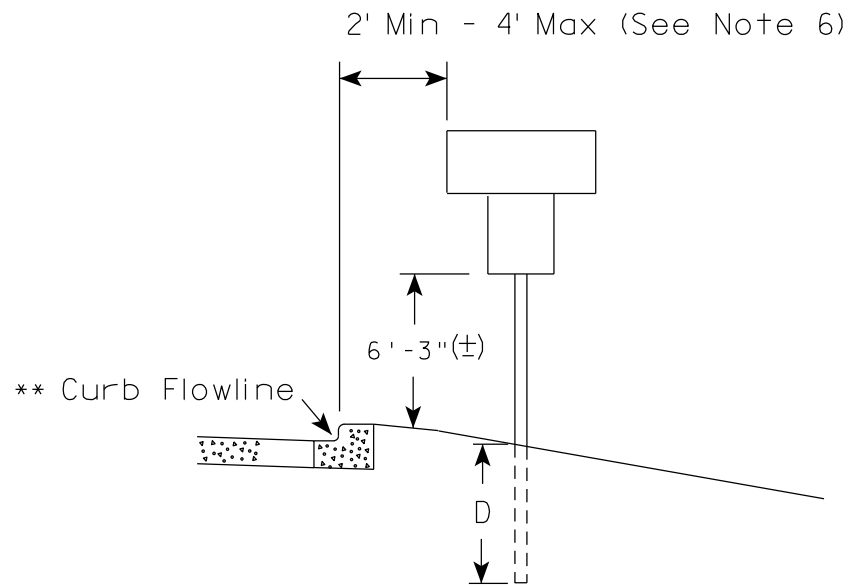
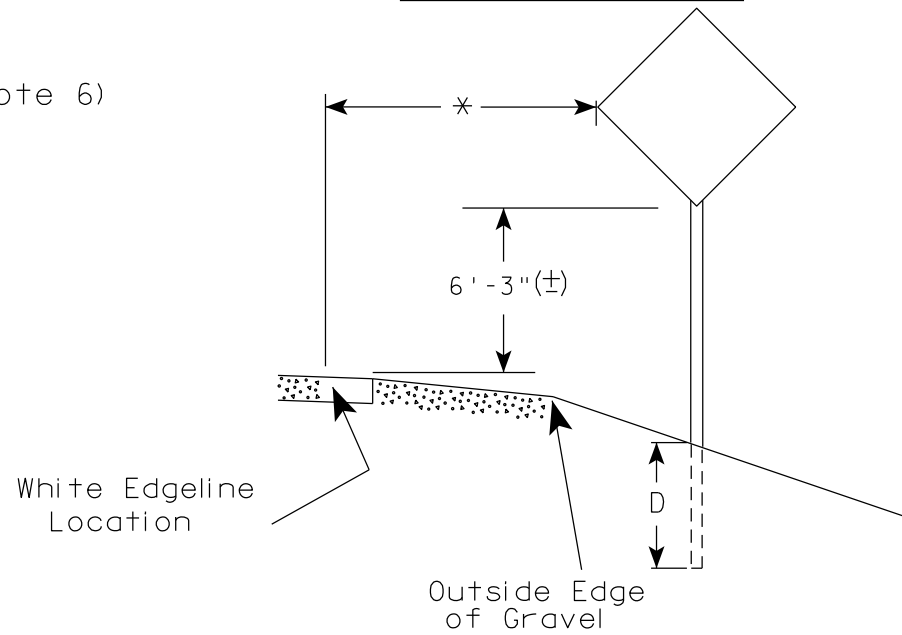
SDD 15D43 - 02

SDD 15D43 - 02

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
The Double Arrow sign (W12-1D) 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
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 signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

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.

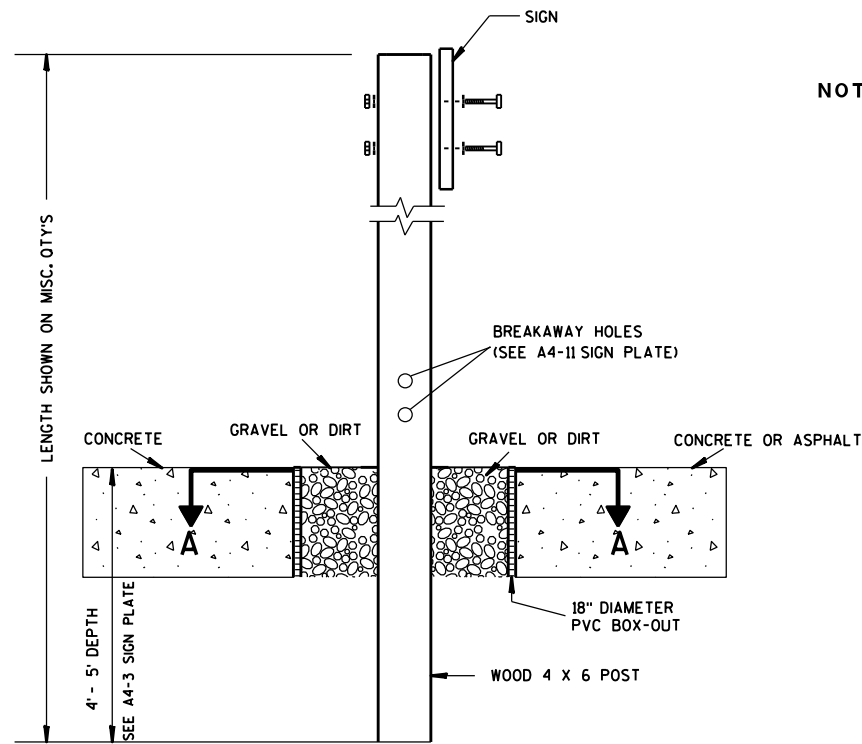
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

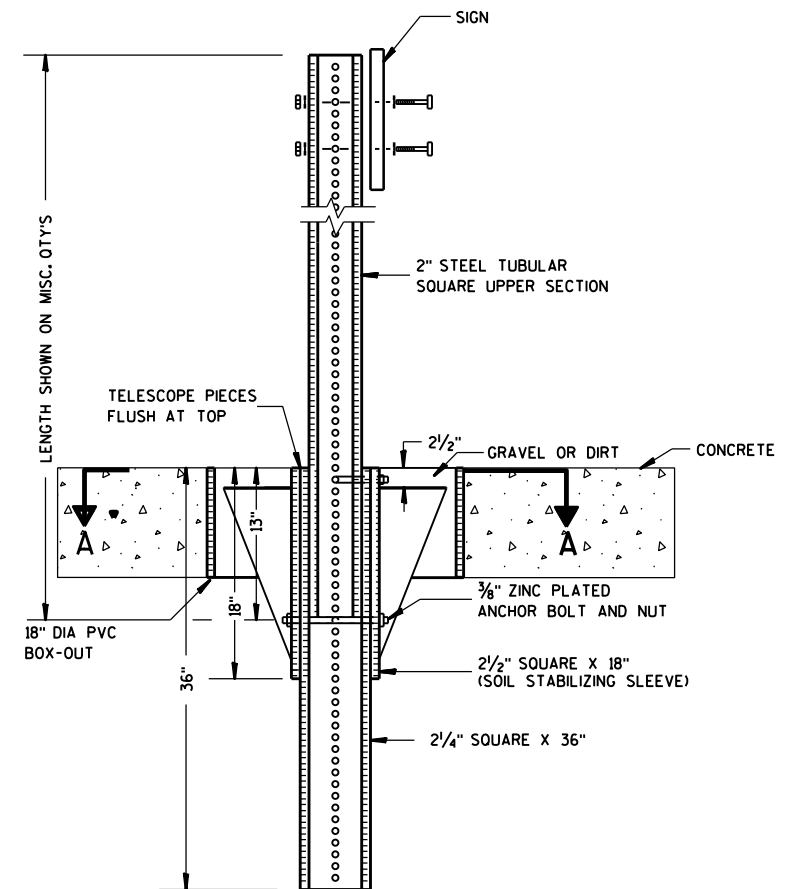
DATE 5/13/2020 PLATE NO. A4-3.22



ELEVATION VIEW

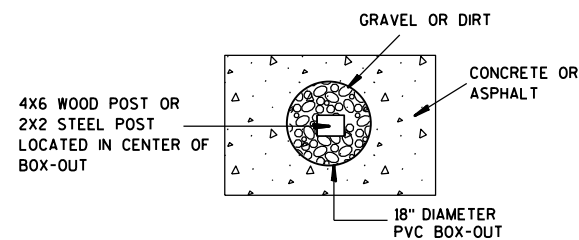
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES:**
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ ASPHALT INSTALLATIONS

**SIGN POST
BOX-OUTS
A4-3B**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

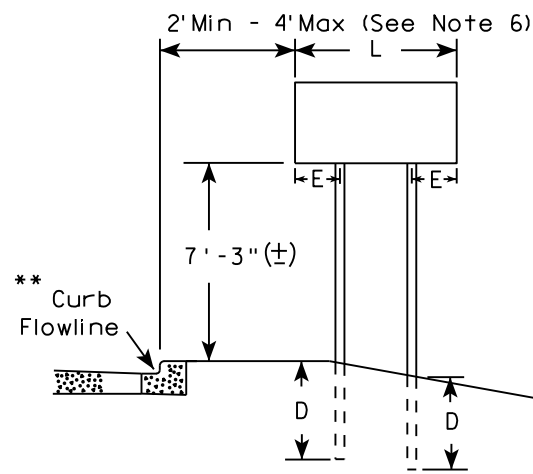
7

7

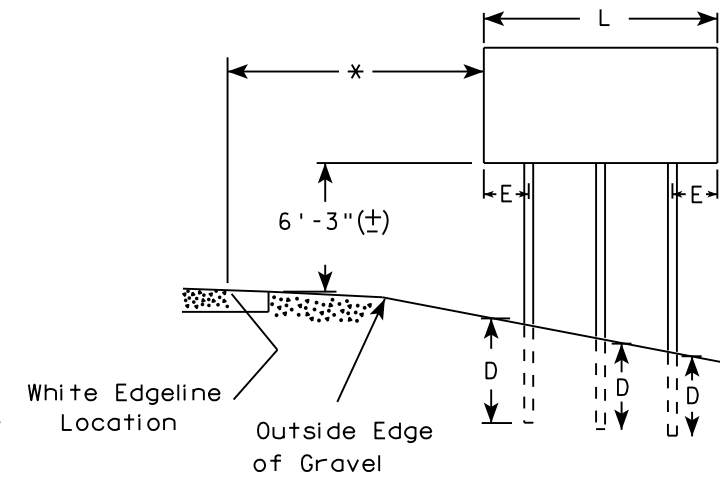
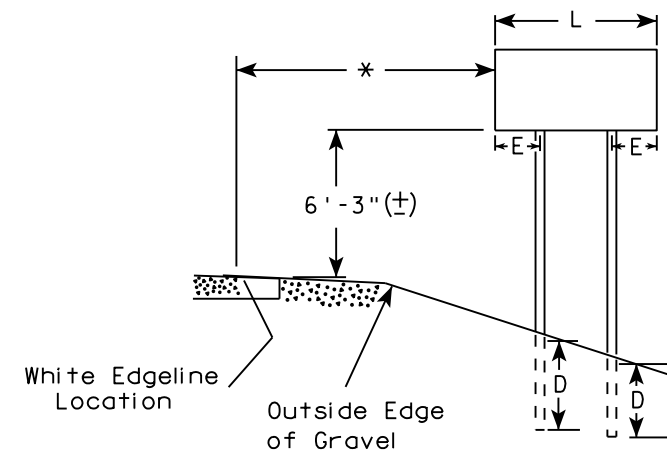
GENERAL NOTES

1. For 3 or 4 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. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

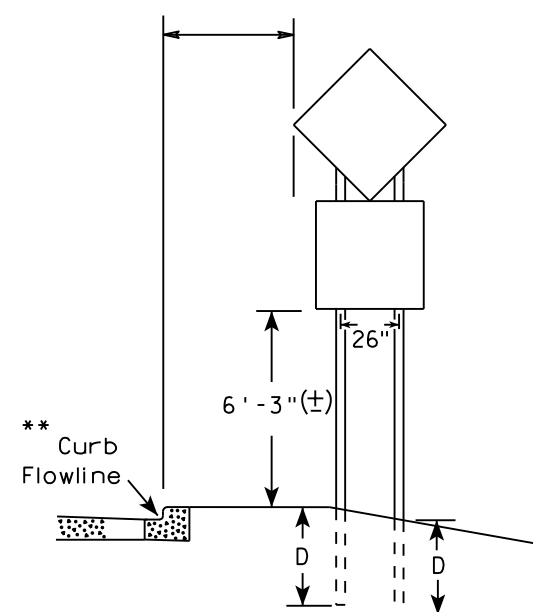
URBAN AREA



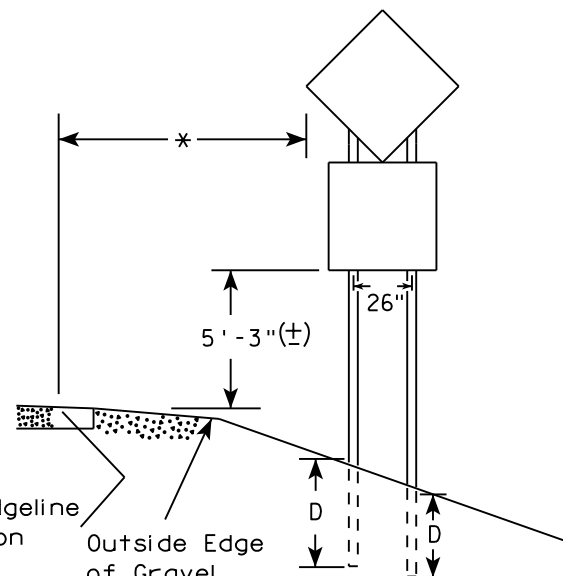
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

* 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 and less than 20 S.F. in area.

| SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED) | |
|--|-----|
| L | E |
| Greater than 48" Less than 60" | 12" |
| 60" to 108" | L/5 |

| SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED) | |
|--|-----|
| L | E |
| Greater than 108" to 144" | 12" |

POST EMBEDMENT DEPTH

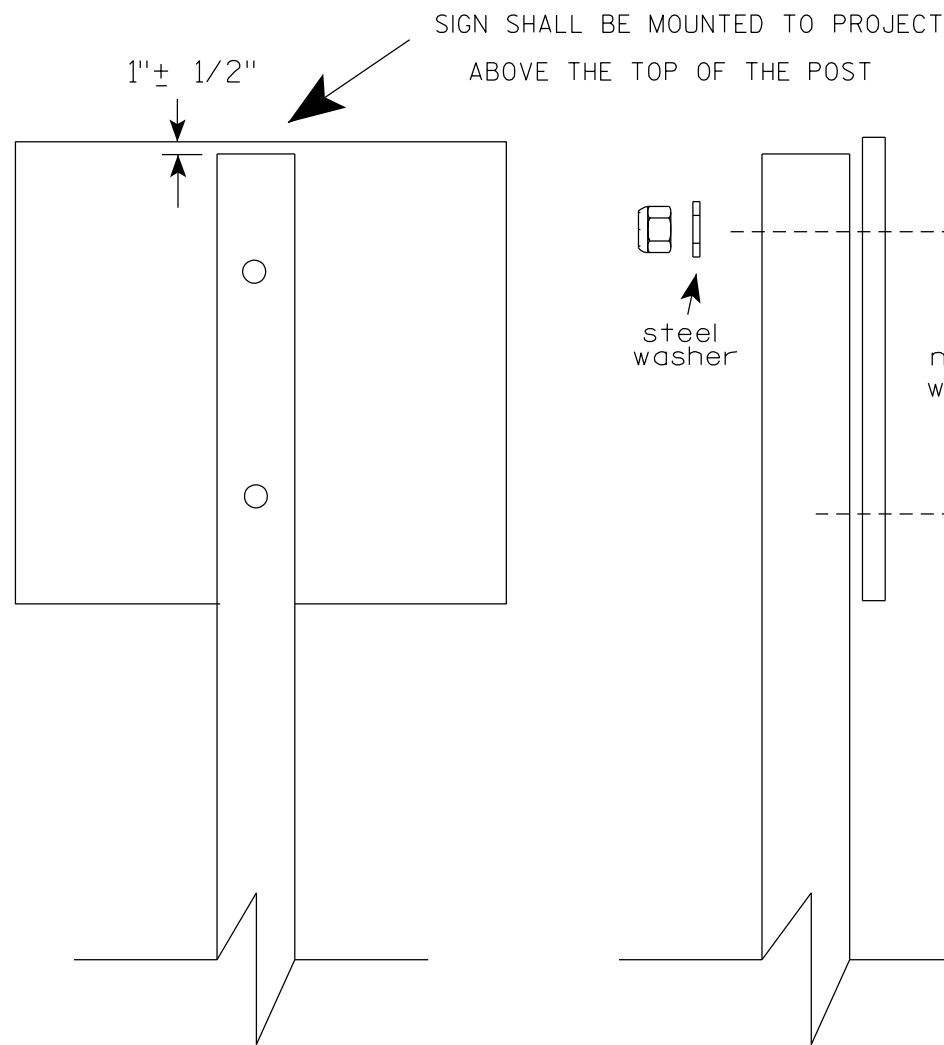
| Area of Sign Installation (Sq. Ft.) | D (Min) |
|---------------------------------------|-----------|
| 20 or Less | 4' |
| Greater than 20 | 5' |

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- 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.

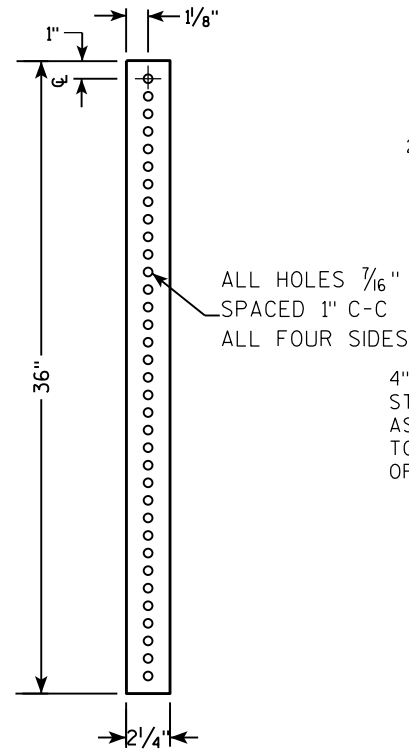
- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 6")
- LAG SCREWS - $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
 - $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - $\frac{9}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
 - 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

* 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.

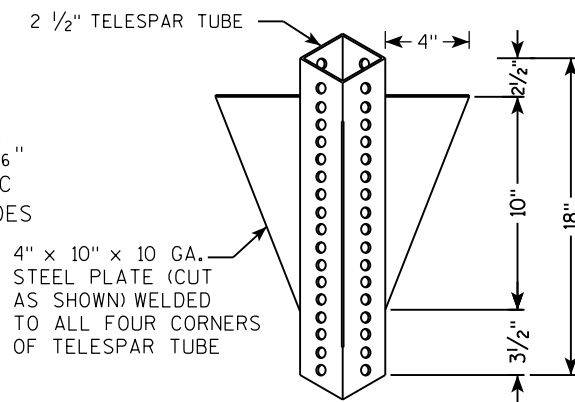
| | |
|----------------------------------|--|
| ATTACHMENT OF SIGNS TO POSTS | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R Rauch</i> For State Traffic Engineer |
| DATE 4/1/2020 | PLATE NO. A4-8.9 |

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

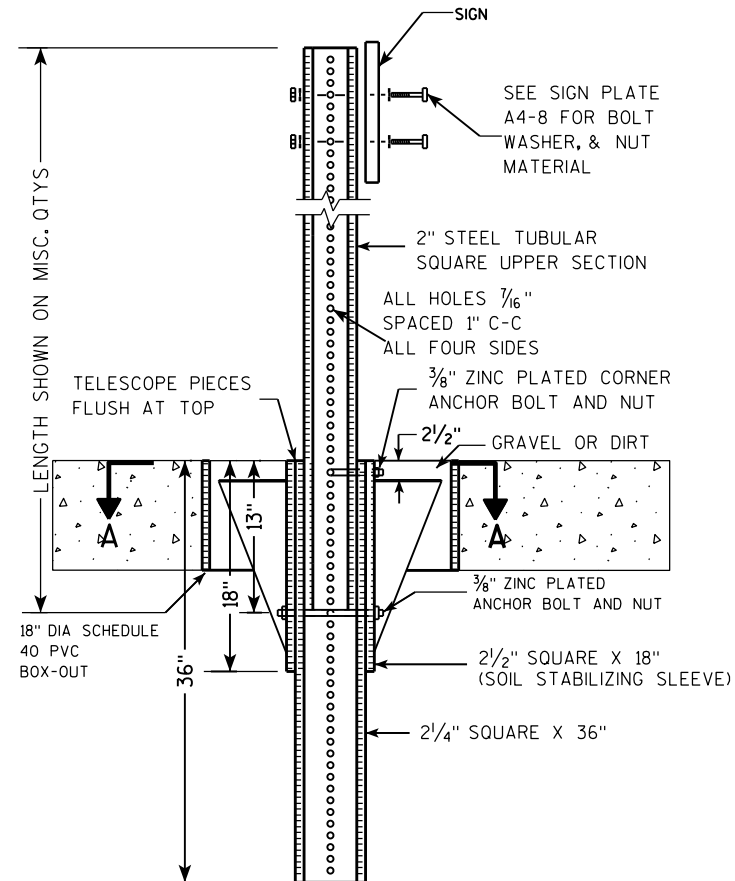
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



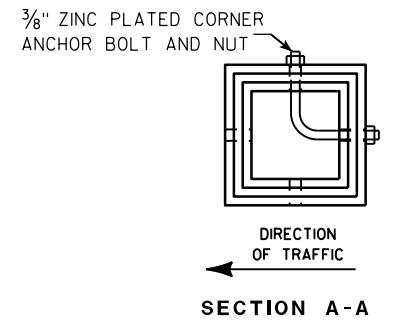
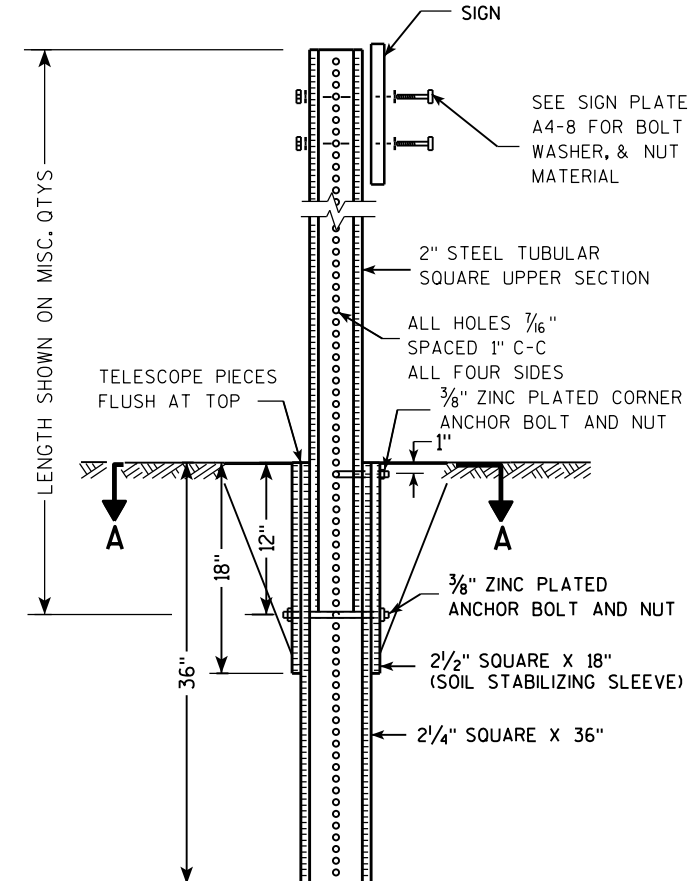
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



**DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)**



**DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)**



| 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 |

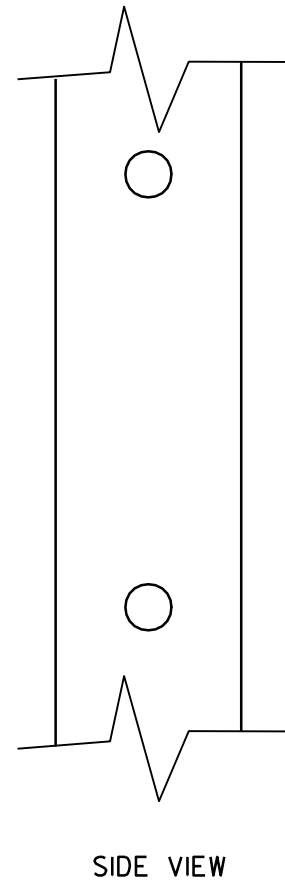
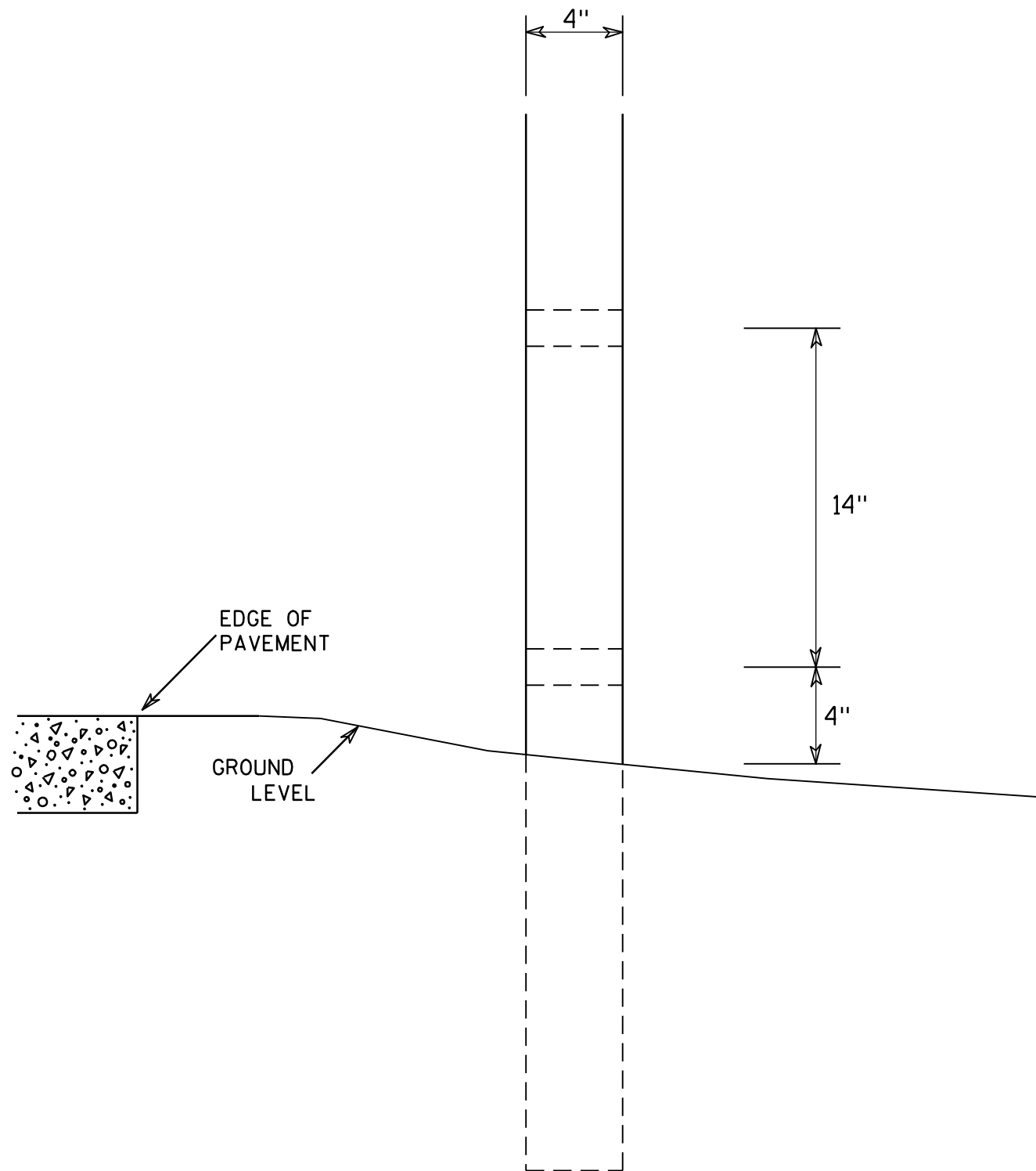
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL
SIGN POST
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9



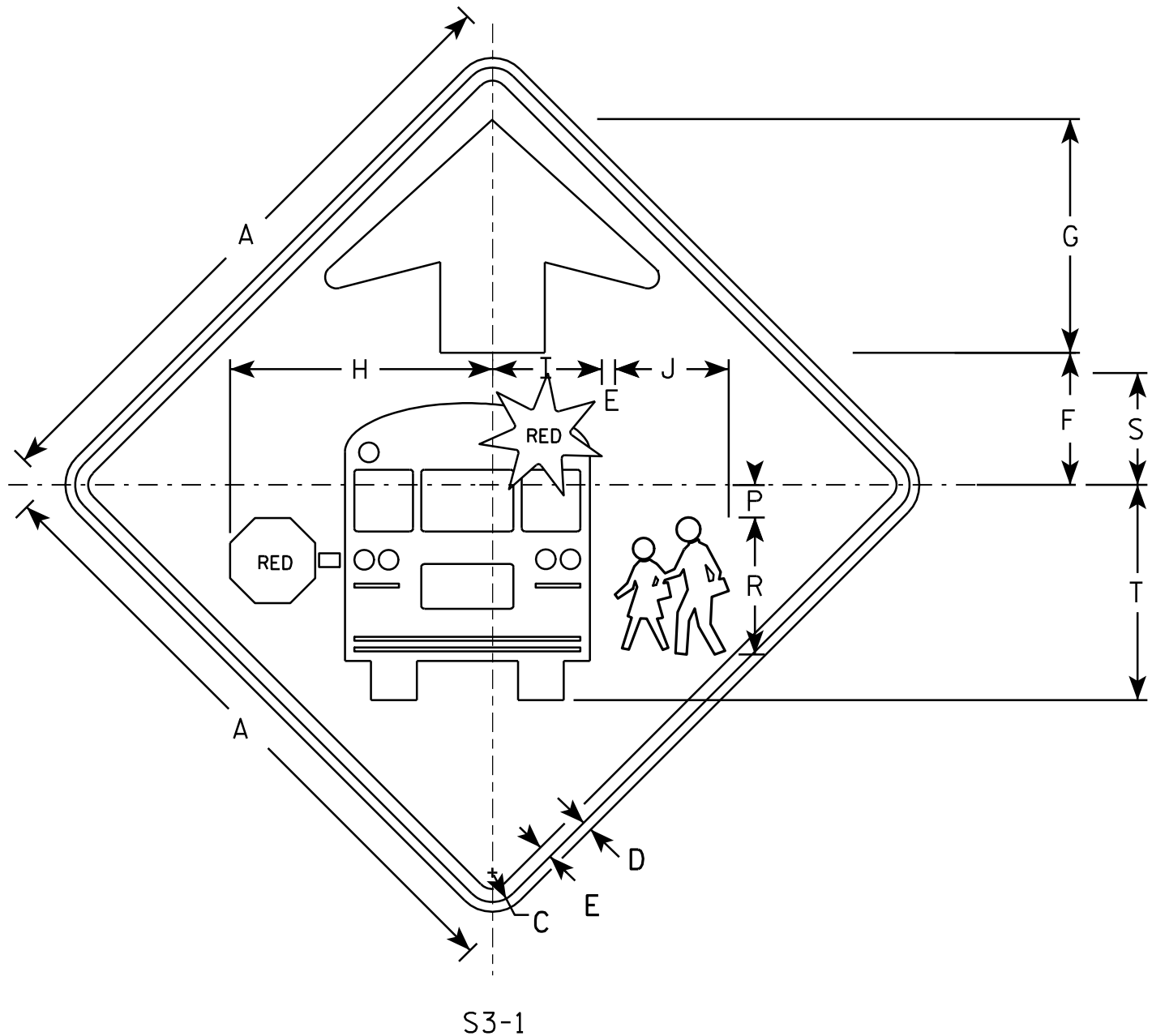
GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

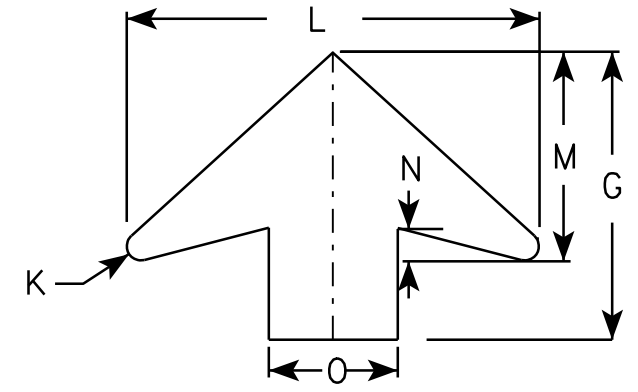
| | |
|---|--|
| 4 X 6 WOOD POST MODIFICATIONS | |
| <i>WISCONSIN DEPT OF TRANSPORTATION</i> | |
| APPROVED | <i>Chester J Spang</i> for State Traffic Engineer |
| DATE <u>3/27/97</u> | PLATE NO. <u>A4-11.2</u> |



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 Background - YELLOW-GREEN
 Message - BLACK except as noted
 Circles except PEDS- RED BACKGROUND
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

7

7

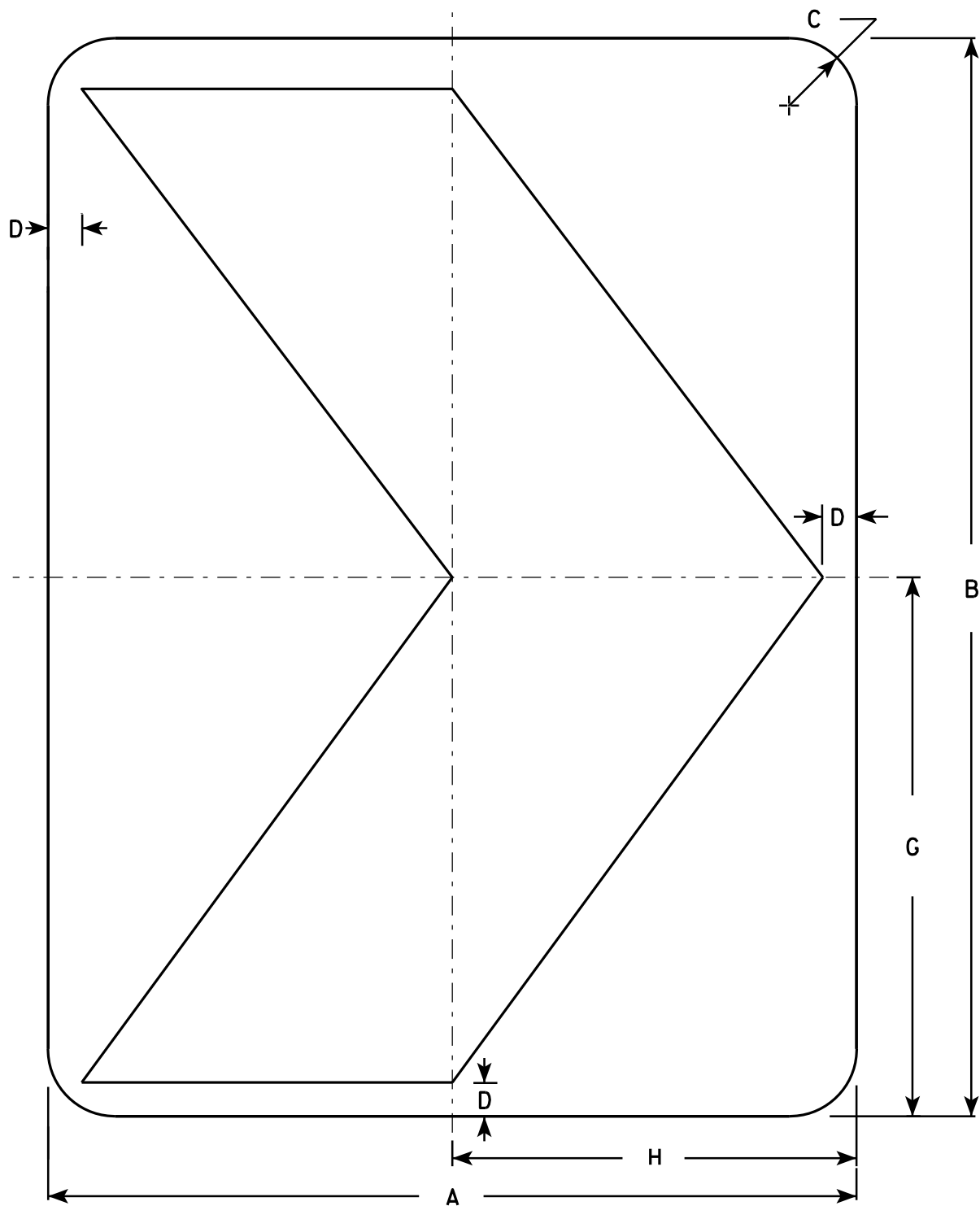
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|-------|--------|--------|-------|-------|-----|--------|-------|-------|---|-------|---|--------|-------|--------|---|---|---|---|---|---|--------------|
| 1 | 30 | | 1 3/8 | 1/2 | 5/8 | 6 1/4 | 11 1/4 | 12 1/2 | 5 1/4 | 5 1/2 | 1/2 | 16 | 8 | 1 1/4 | 5 | 1 1/2 | | 6 5/8 | 5 3/8 | 10 3/8 | | | | | | | 6.25 |
| 2 | 36 | | 1 5/8 | 5/8 | 3/4 | 7 1/2 | 13 1/2 | 15 1/8 | 6 1/4 | 6 1/2 | 5/8 | 19 1/4 | 9 3/4 | 1 5/8 | 6 | 1 7/8 | | 7 1/8 | 6 3/8 | 12 3/8 | | | | | | | 9.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 10 | 17 7/8 | 20 1/8 | 8 3/8 | 8 3/4 | 7/8 | 25 5/8 | 13 | 2 | 8 | 2 1/2 | | 10 1/2 | 8 1/2 | 16 1/2 | | | | | | | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 10 | 17 7/8 | 20 1/8 | 8 3/8 | 8 3/4 | 7/8 | 25 5/8 | 13 | 2 | 8 | 2 1/2 | | 10 1/2 | 8 1/2 | 16 1/2 | | | | | | | 16.0 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STANDARD SIGN
S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/8/10 PLATE NO. S3-1.6



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.

7

7

W1-8

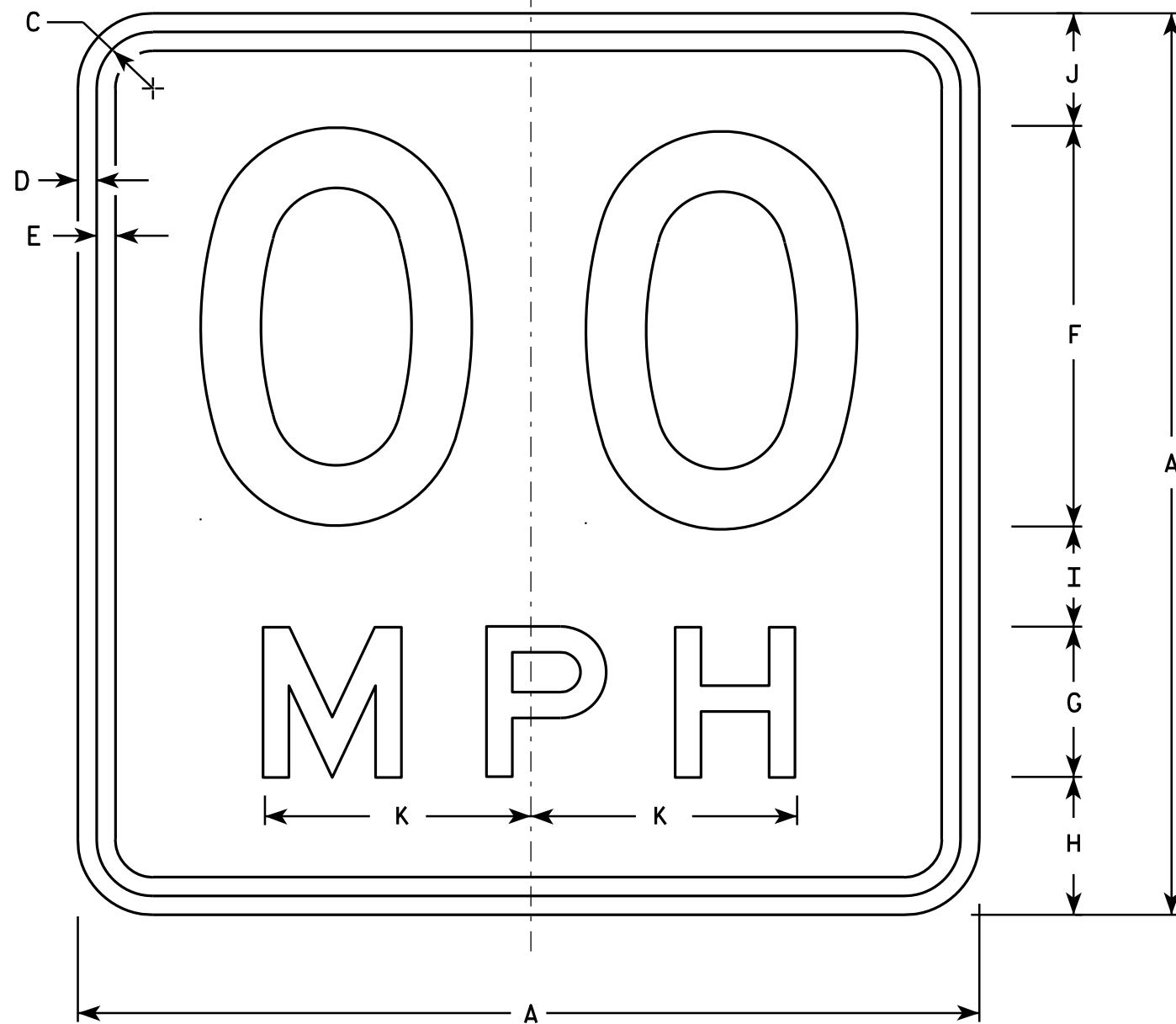
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-------|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| 1 | 12 | 18 | 1 1/2 | 1/2 | | | 9 | 6 | | | | | | | | | | | | | | | | | | | 1.5 |
| 2S | 18 | 24 | 1 1/2 | 3/4 | | | 12 | 9 | | | | | | | | | | | | | | | | | | | 3.0 |
| 2M | 18 | 24 | 1 1/2 | 3/4 | | | 12 | 9 | | | | | | | | | | | | | | | | | | | 3.0 |
| 3 | 24 | 30 | 1 1/2 | 1 | | | 15 | 12 | | | | | | | | | | | | | | | | | | | 5.0 |
| 4 | 30 | 36 | 1 7/8 | 1 1/4 | | | 18 | 15 | | | | | | | | | | | | | | | | | | | 7.5 |
| 5 | 36 | 48 | 2 1/4 | 1 1/2 | | | 24 | 18 | | | | | | | | | | | | | | | | | | | 12.0 |

STANDARD SIGN
W1-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6



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 - 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. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

| 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 | 8 | 3 | 2 3/4 | 2 | 2 1/4 | 5 3/8 | | | | | | | | | | | | | | | 2.25 | |
| * 2S | 18 | | 1 1/8 | 3/8 | 3/8 | 8 | 3 | 2 3/4 | 2 | 2 1/4 | 5 3/8 | | | | | | | | | | | | | | | 2.25 | |
| * 2M | 18 | | 1 1/8 | 3/8 | 3/8 | 8 | 3 | 2 3/4 | 2 | 2 1/4 | 5 3/8 | | | | | | | | | | | | | | | 2.25 | |
| 3 | 24 | | 1 1/8 | 3/8 | 1/2 | 10 | 4 | 4 | 2 3/4 | 3 1/4 | 6 5/8 | | | | | | | | | | | | | | | 4.00 | |
| 4 | 36 | | 1 5/8 | 5/8 | 3/4 | 16 | 6 | 5 1/2 | 4 | 4 1/2 | 10 5/8 | | | | | | | | | | | | | | | 9.00 | |
| 5 | 36 | | 1 5/8 | 5/8 | 3/4 | 16 | 6 | 5 1/2 | 4 | 4 1/2 | 10 5/8 | | | | | | | | | | | | | | | 9.00 | |

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>