

GRE AUGUST 2016

PROJECT ID: 1440-35-71

COUNTY: FOND DU LAC

ORDER OF SHEETS

- Section No. 1 Title  
Section No. 2 Typical Sections and Details  
Section No. 3 Estimate of Quantities  
Section No. 3 Miscellaneous Quantities  
~~Section No. 4 Right of Way Plan~~  
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 = 102



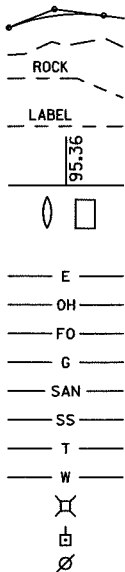
DESIGN DESIGNATION

A.A.D.T. 2016 = 12200  
A.A.D.T. 2036 = 16900  
D.H.V. = 2028  
D.D. = 59/41  
T. = 5.6%  
DESIGN SPEED = 50 MPH  
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  
OVERHEAD UTILITY  
FIBER OPTIC  
GAS  
SANITARY SEWER  
STORM SEWER  
TELEPHONE  
WATER  
UTILITY PEDESTAL  
POWER POLE  
TELEPHONE POLE



STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

FOND DU LAC - PLYMOUTH

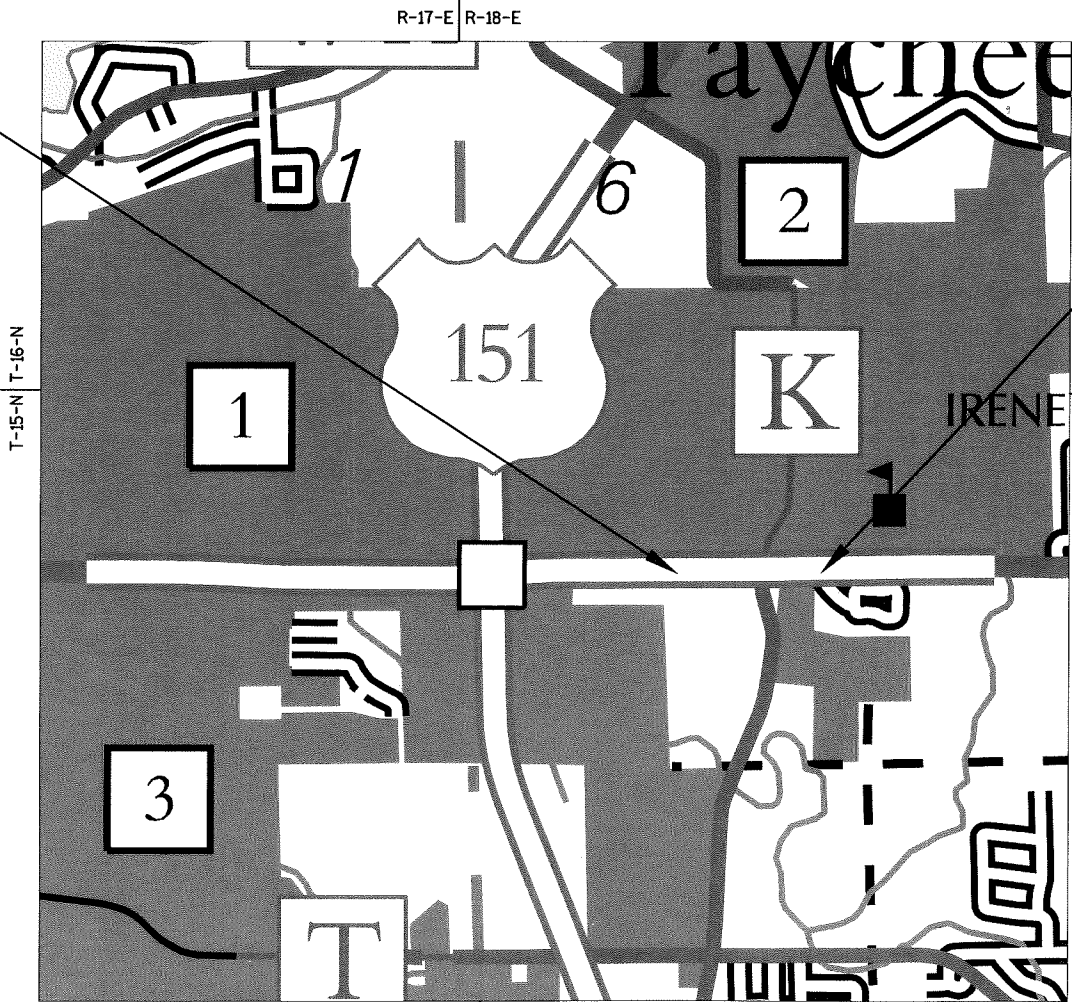
CTH K INTERSECTION

STH 23

FOND DU LAC

| STATE PROJECT NUMBER |
|----------------------|
| 1440-35-71           |

BEGIN PROJECT  
STA 129+27.40  
X=832223.7087  
Y=387930.7156



END PROJECT  
STA 142+18.00  
X=833514.5709  
Y=387943.0842

LAYOUT  
SCALE 0 1/2 MILE  
TOTAL NET LENGTH OF CENTERLINE = 0.245 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, FOND DU LAC COUNTY, NAD 83 (2011), NAVD 88 (2012) IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT

1440-35-71

FEDERAL PROJECT

PROJECT

WISC 2016290

CONTRACT

1

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor \_\_\_\_\_ SURVEYOR  
Designer \_\_\_\_\_ WISDOT  
Project Manager \_\_\_\_\_ B. LEARST  
Regional Examiner \_\_\_\_\_  
Regional Supervisor \_\_\_\_\_ R. WAGNER

APPROVED FOR THE DEPARTMENT

DATE: 05/05/16 \_\_\_\_\_  
Signature

E

GENERAL NOTES

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

EXISTING PERMANENT SIGNS ARE TO REMAIN IN PLACE UNLESS SPECIALLY CALLED FOR REMOVAL ON MISCELLANEOUS QUANTITY TABLE.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

THE CONTRACTOR IS TO WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS. REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER. DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED, ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND COVERED WITH MULCH OR EROSION MAT, AS SHOWN ON THE PLANS.

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.

ALL RADII ARE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

UTILITIES

AT&T WISCONSIN  
CHUCK BARTELT  
70 EAST DIVISION STREET  
FOND DU LAC, WI 54935  
PHONE: 920-929-1013  
MOBILE: 920-410-5104  
EMAIL: [cb1461@att.com](mailto:cb1461@att.com)

ATC MANAGEMENT, INC.  
GERALD RHODE  
PO BOX 6113  
DE PERE, WI 54115  
PHONE: 920-338-6523  
EMAIL: [grhode@atcinc.com](mailto:grhode@atcinc.com)

ALLIANT ENERGY - ELECTRIC AND GAS  
BILL BASTIAN  
883 WEST SCOTT STREET  
FOND DU LAC, WI 54937  
PHONE: 920-322-6716  
EMAIL: [williambastian@alliantenergy.com](mailto:williambastian@alliantenergy.com)

CHARTER COMMUNICATIONS  
BRUCE HENRY  
1623 BROADWAY AVENUE  
SHEBOYGAN, WI 53081  
MOBILE: 920-263-0074  
EMAIL: [bruce.henry@charter.com](mailto:bruce.henry@charter.com)

CITY OF FOND DU LAC - WATER  
TRAVIS KLOETZKE  
160 SOUTH MACY STREET  
PO BOX 150  
FOND DU LAC, WI 54936-0150  
PHONE: 920-322-3683  
MOBILE: 920-539-5743  
EMAIL: [tkloetzke@fdl.wi.gov](mailto:tkloetzke@fdl.wi.gov)

MARY HILL SANITARY  
JOHN MEYST  
W4478 MARY HILL PARK DRIVE  
FOND DU LAC, WI 54935  
PHONE: 920-921-6671  
EMAIL: [rosybud@charter.net](mailto:rosybud@charter.net)

DNR AREA LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
2984 SHAWANO AVENUE  
GREEN BAY, WI 54313-6727  
ATTN: JAY SCHIEFELBEIN  
PHONE: 920-360-3784  
E-MAIL: [JEREMIAH.SCHIEFELBEIN@DNR.WISCONSIN.GOV](mailto:JEREMIAH.SCHIEFELBEIN@DNR.WISCONSIN.GOV)

DIGGERS

HOTLINE

Dial 811

or (800) 242-8511

[www.DiggersHotline.com](http://www.DiggersHotline.com)

EMERGENCY CONTACT NUMBERS FOR WISCONSIN POWER AND LIGHT COMPANY

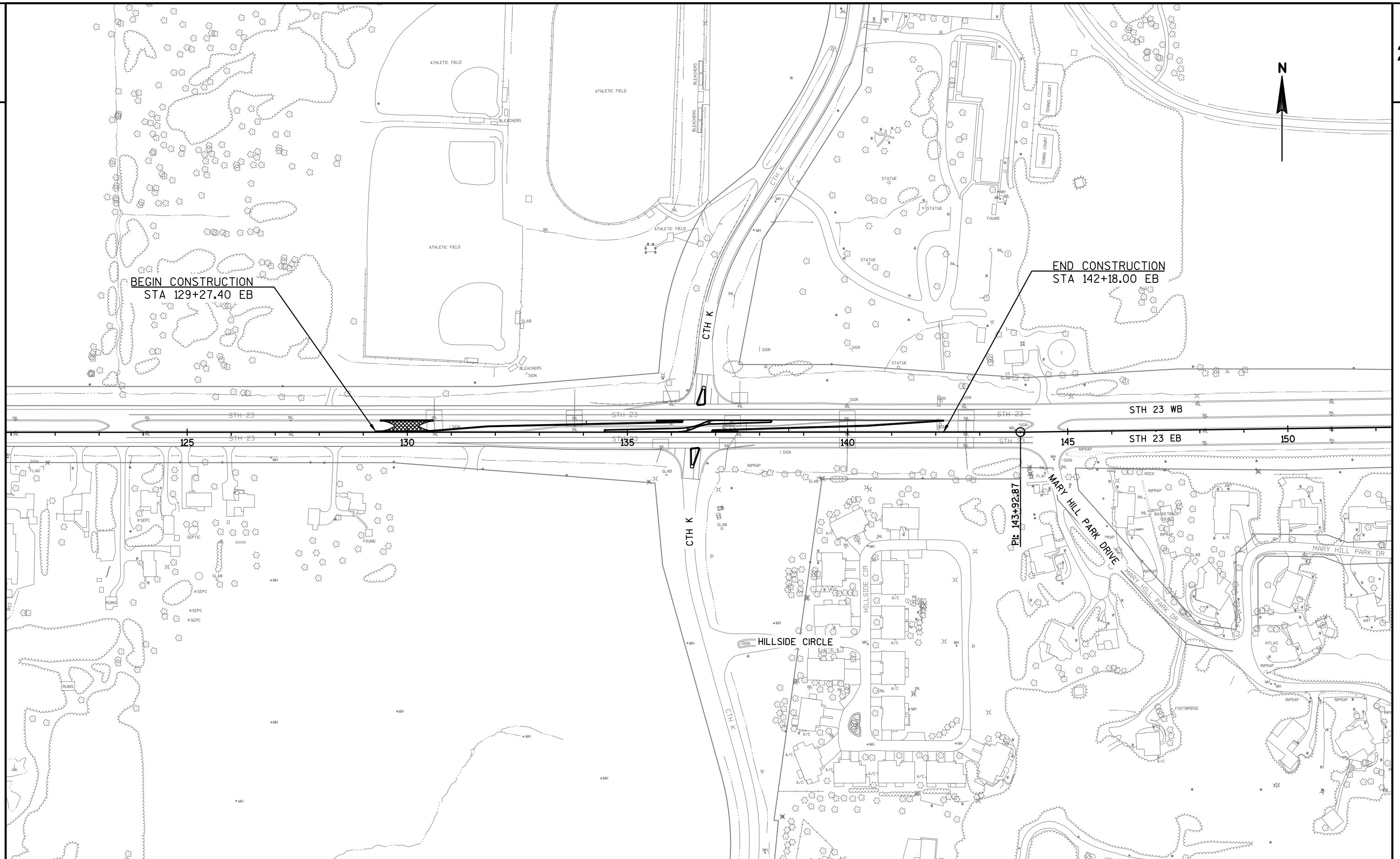
ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-862-6261  
GAS 24 HOUR EMERGENCY SERVICE: 1-800-862-6263

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

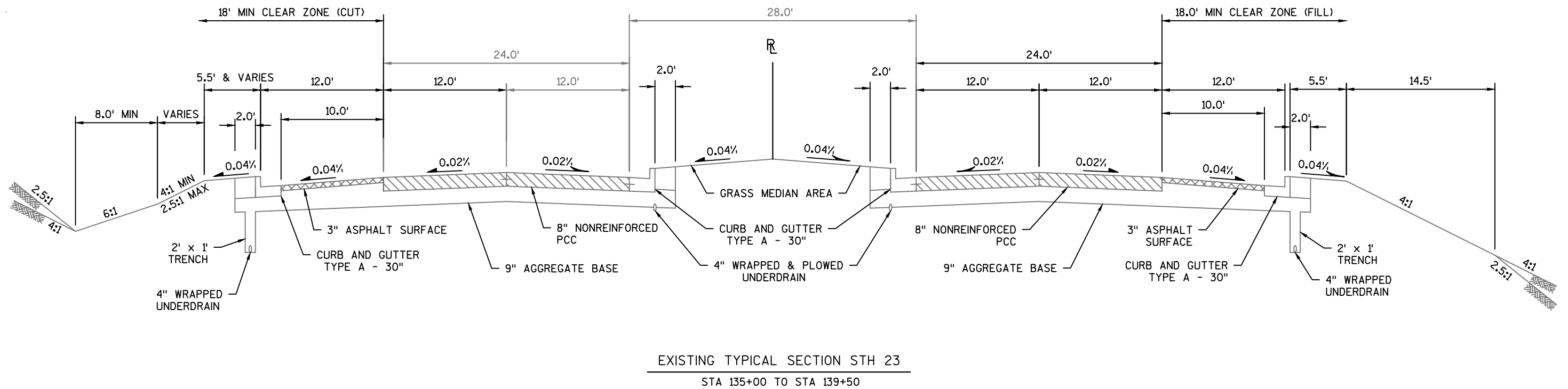
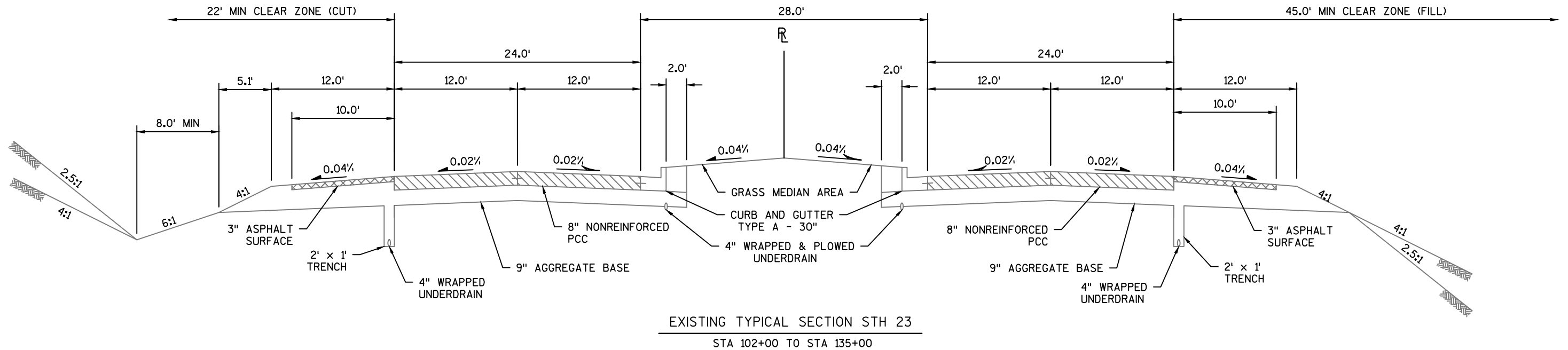
ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240  
GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280

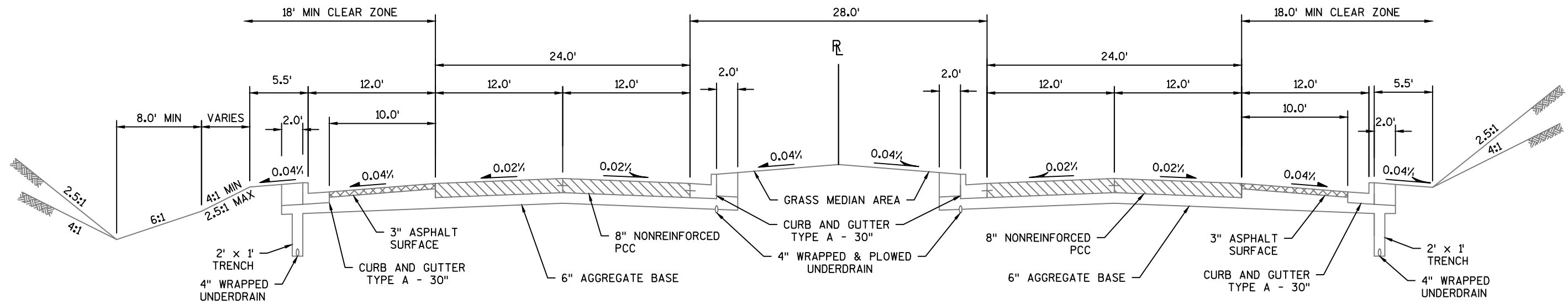
EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797  
GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

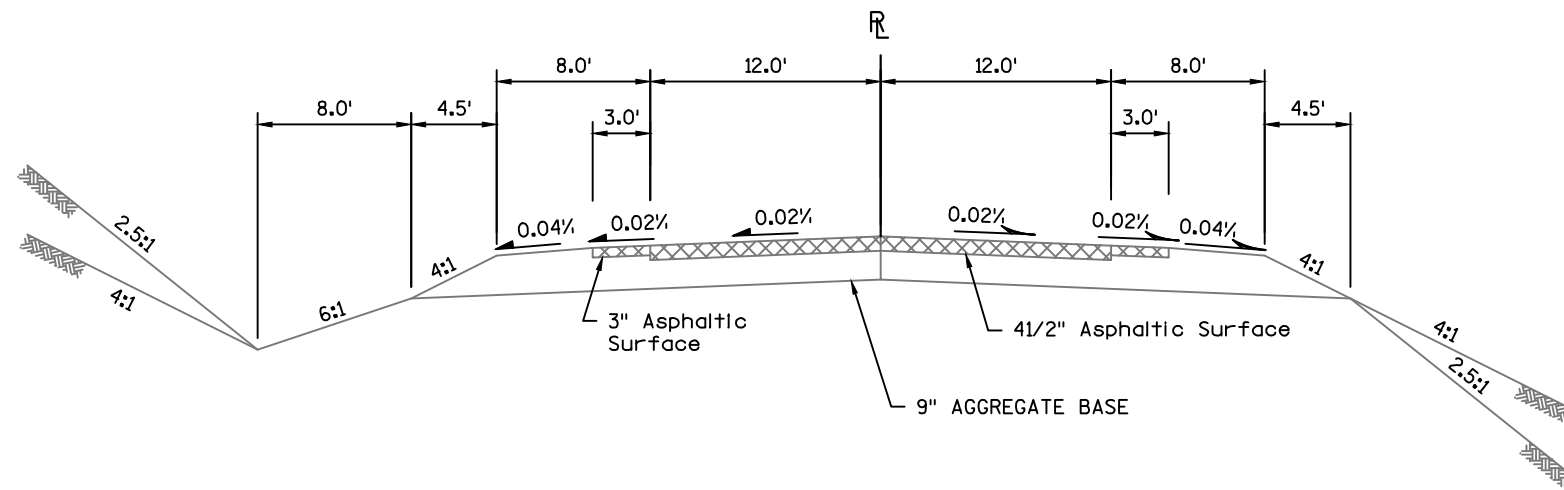


2 |

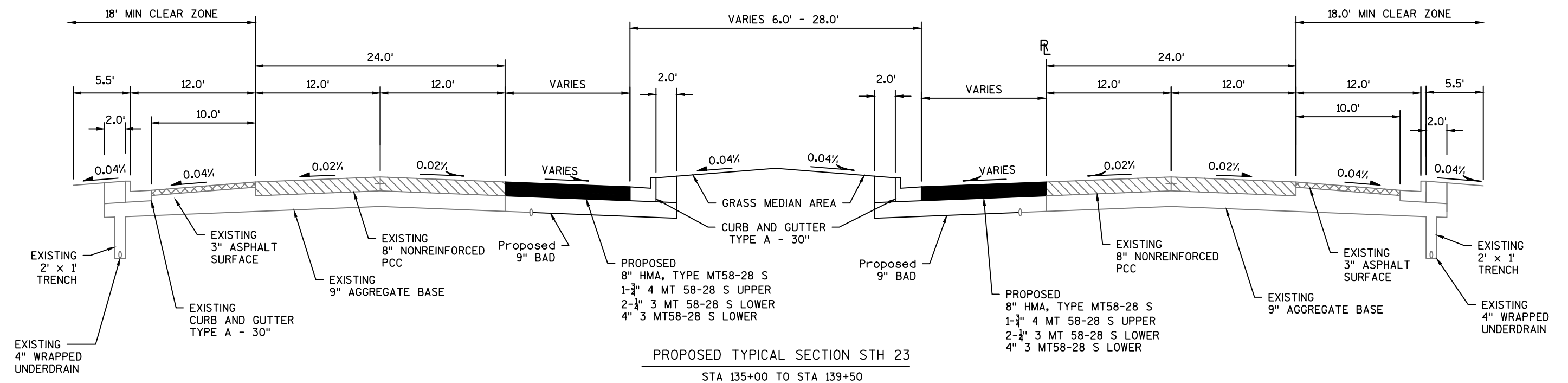
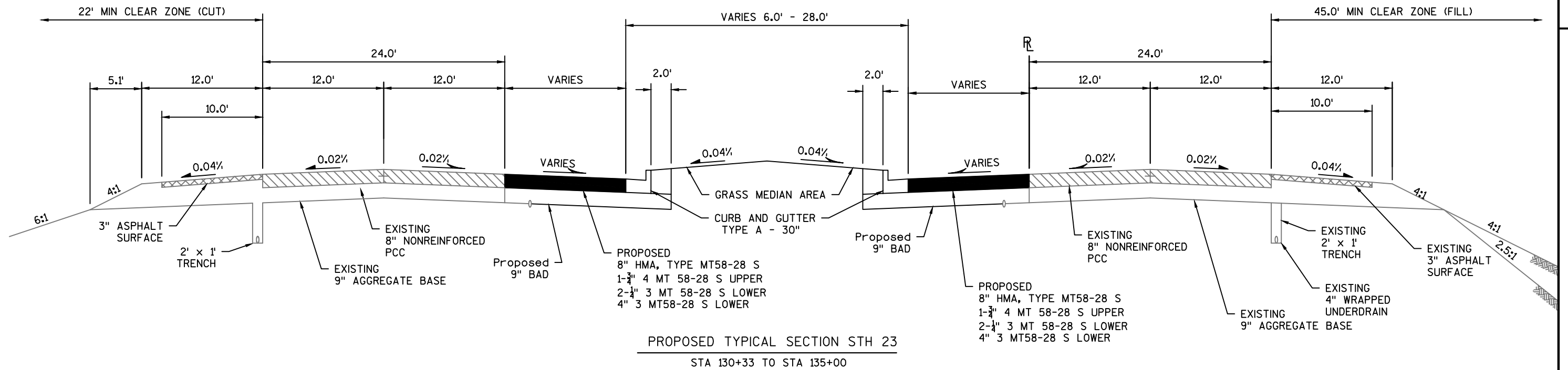


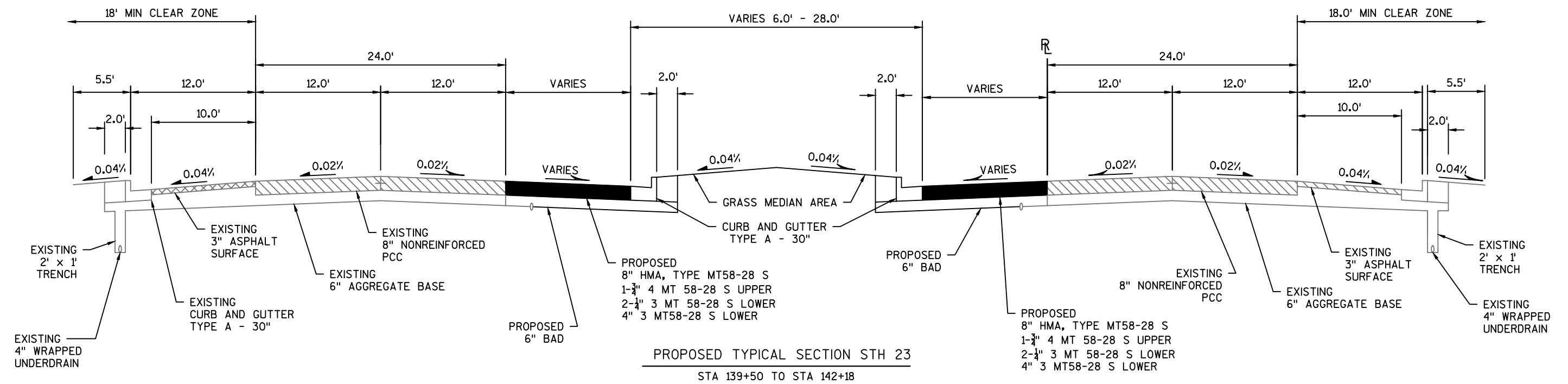


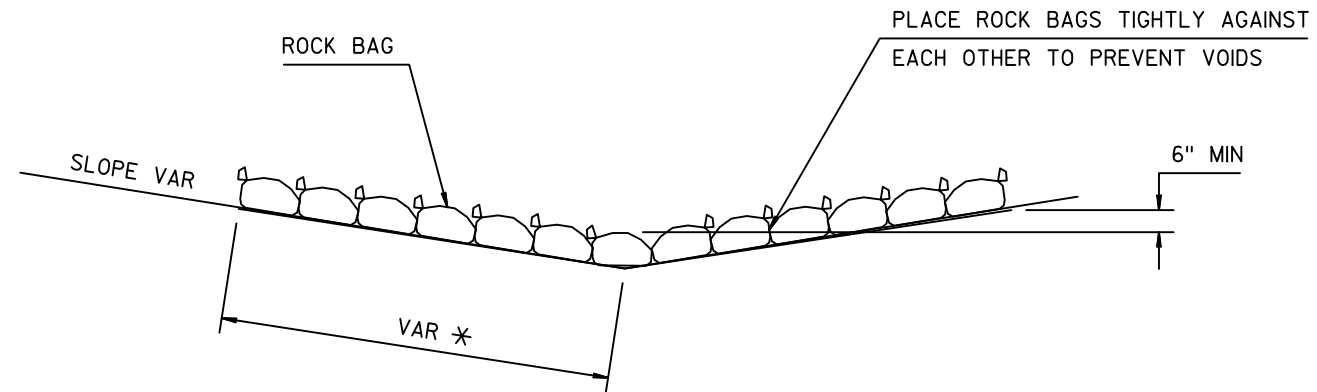
EXISTING TYPICAL SECTION STH 23  
STA 139+50 TO STA 168+60



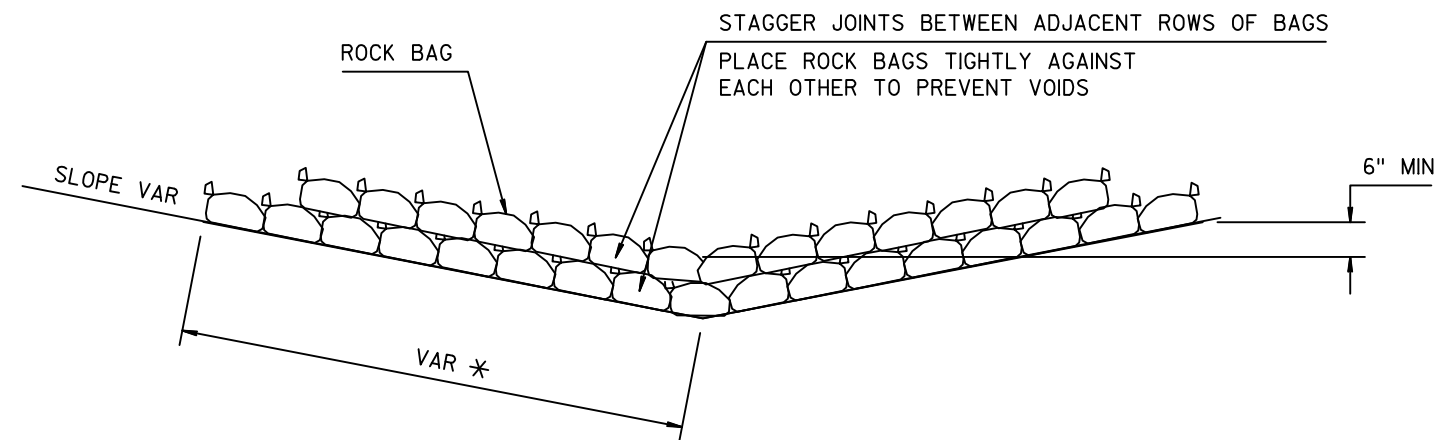
EXISTING TYPICAL SECTION CTH K







SIDE VIEW (SINGLE LAYER)



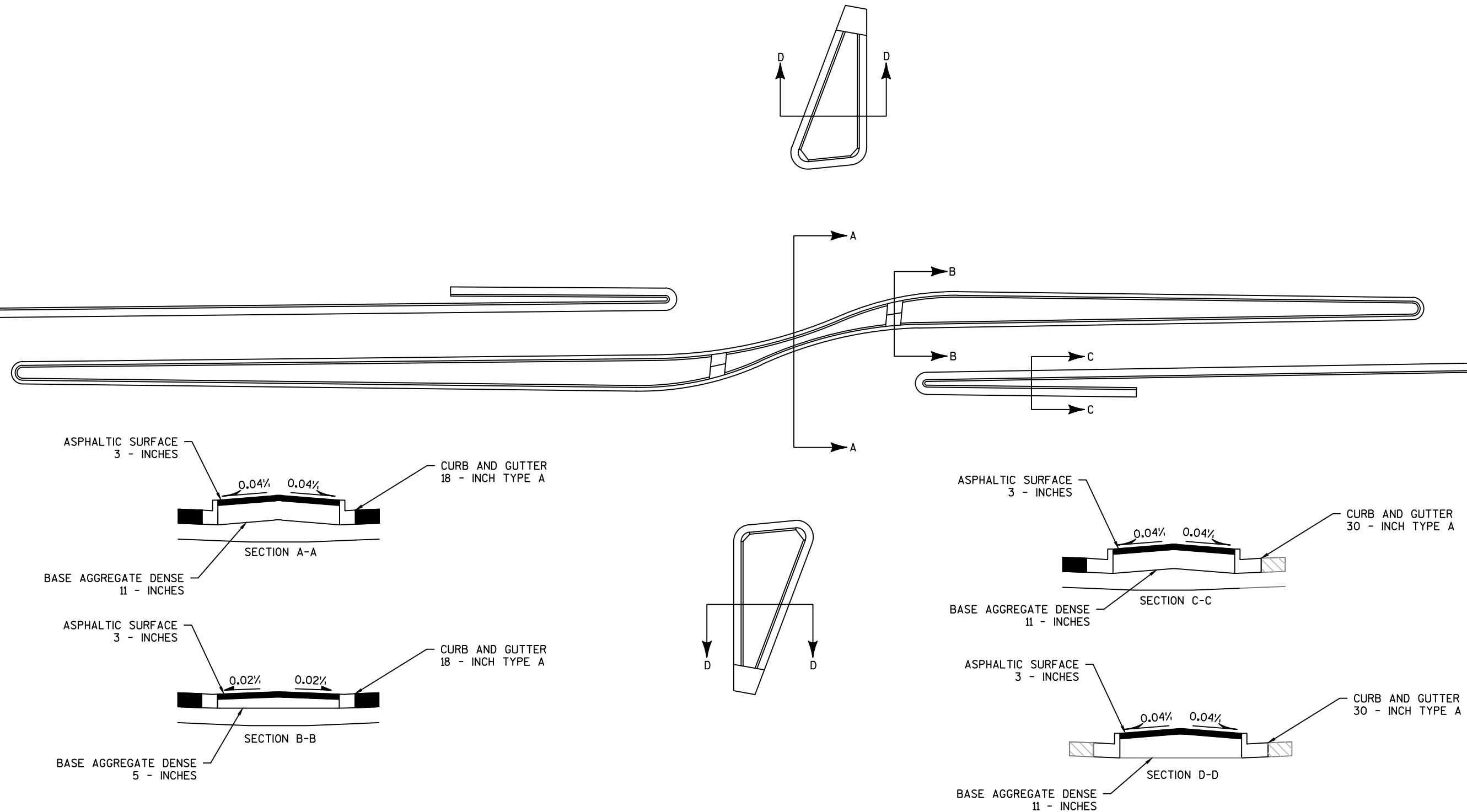
\* LENGTH AND NUMBER OF BAGS MAY VARY  
DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

### ROCK BAGS DITCH CHECK

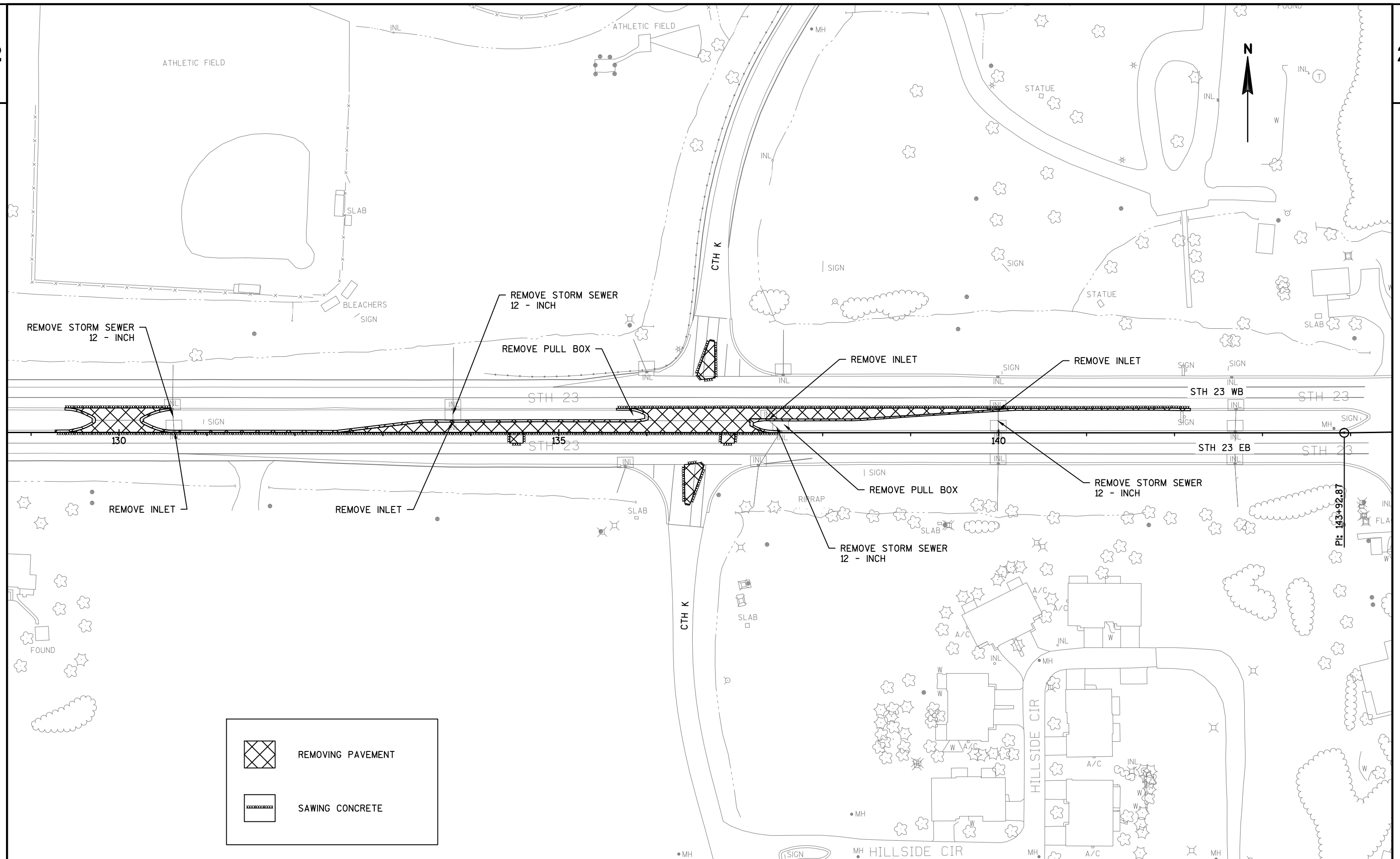
PAID AS ROCK BAGS

## MEDIAN PAVING CONSTRUCTION DETAIL



2

2



PROJECT NO:1440-35-71

HWY:STH 23

COUNTY:FOND DU LAC

| REMOVALS DETAIL |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|
|-----------------|--|--|--|--|--|--|--|--|--|

SHEET

**E**

FILE NAME : N:\PDS\C3D\14403500\SHEETSP\PLAN\REMOVALS\REMOVALS.DWG  
LAYOUT NAME - SHEET - (1)

PLOT DATE : 4/11/2016 3:14 PM      PLOT BY : MAY, MATTHEW J

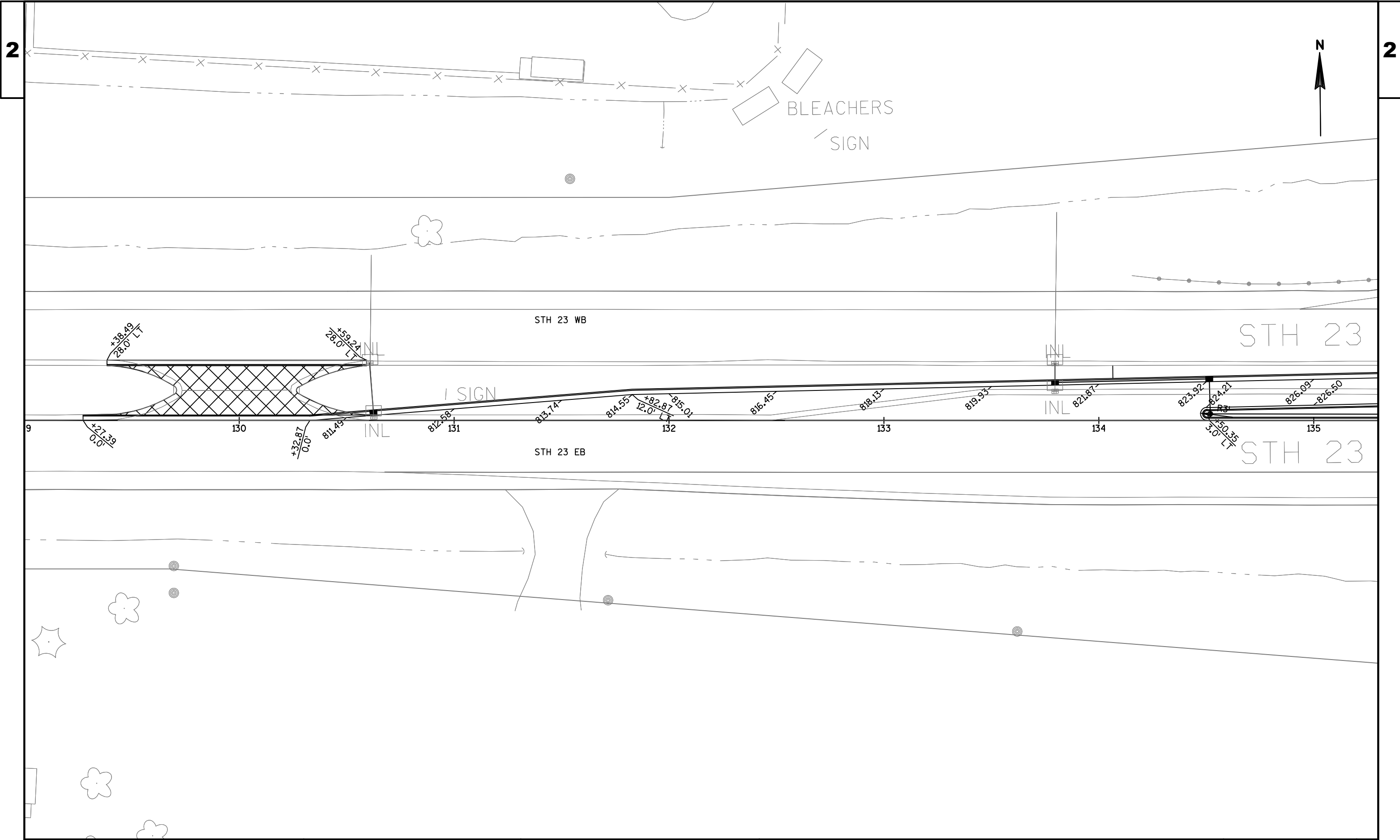
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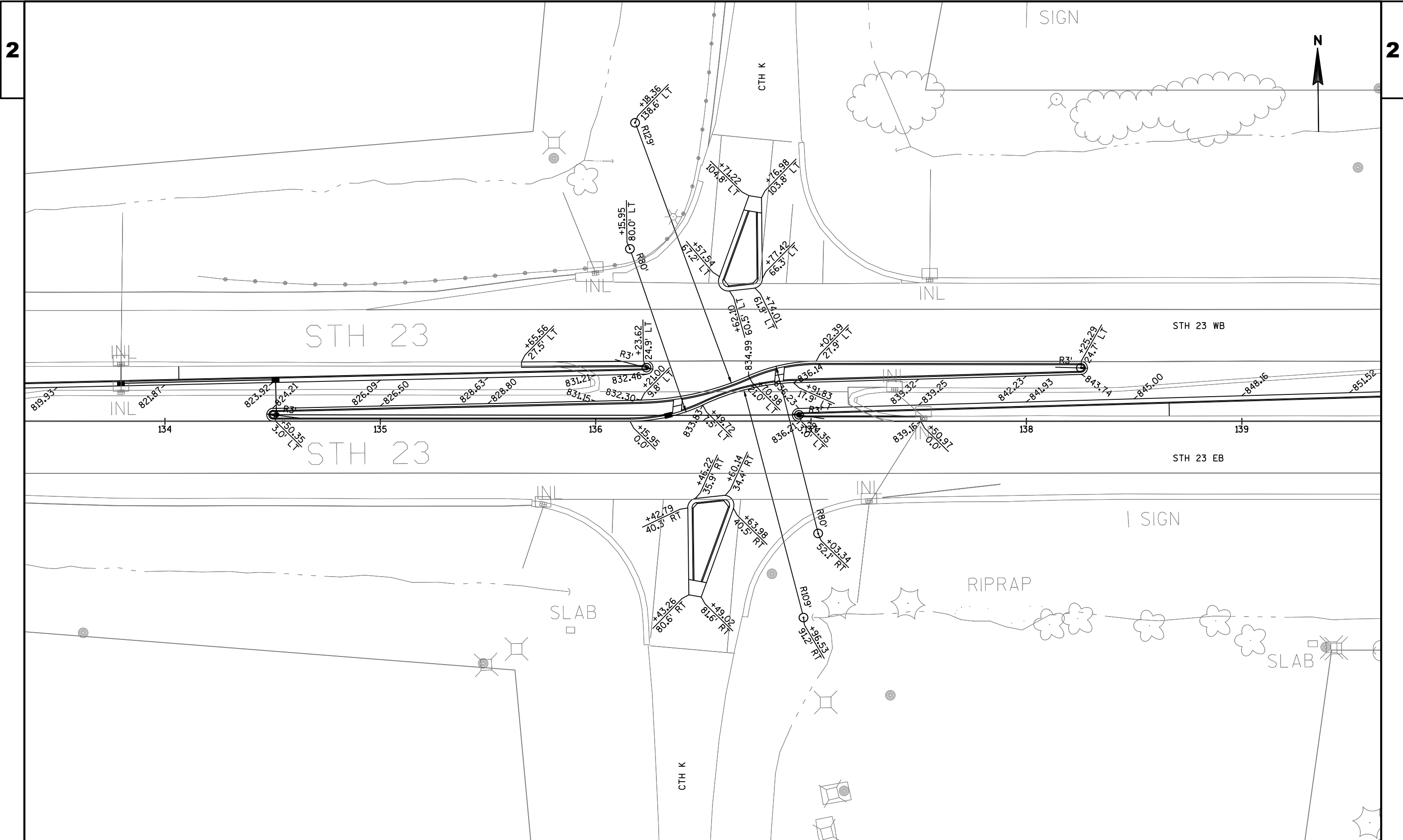
PLOT BY : MAY, MATTHEW J      PLOT NAME :

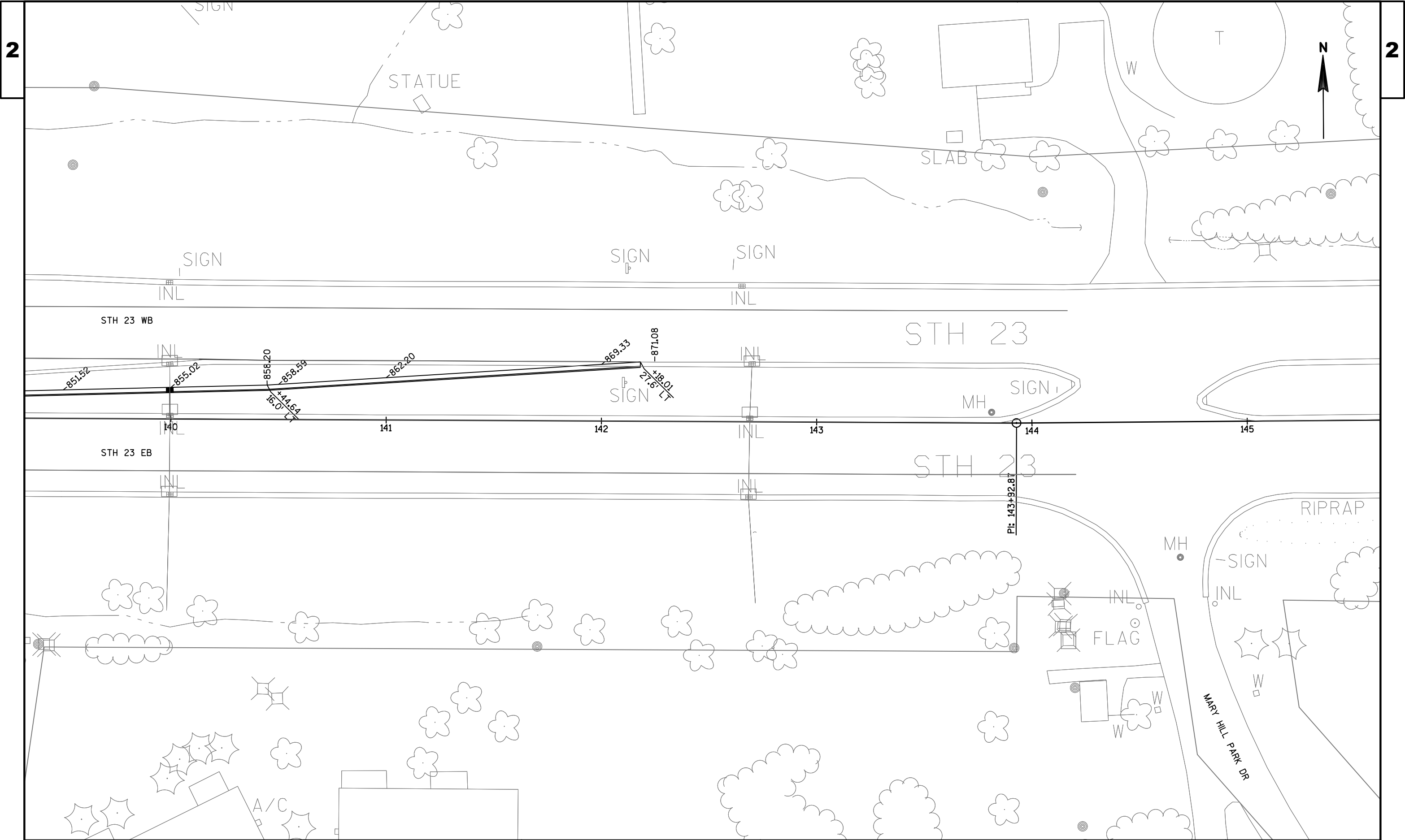
PLOT NAME : PLOT SCALE : 1 IN:100 FT

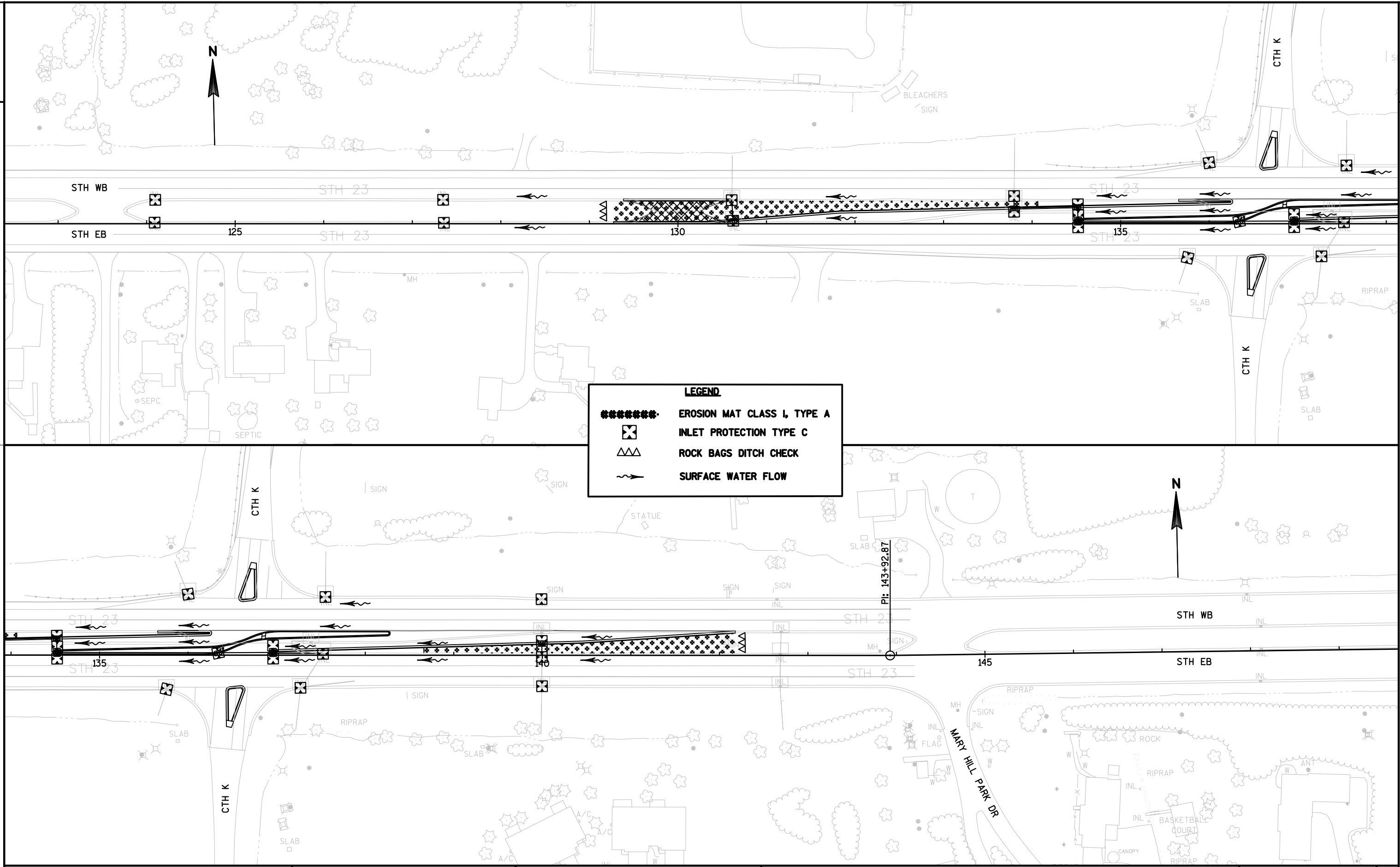
PLOT SCALE : 1 IN:100 FT

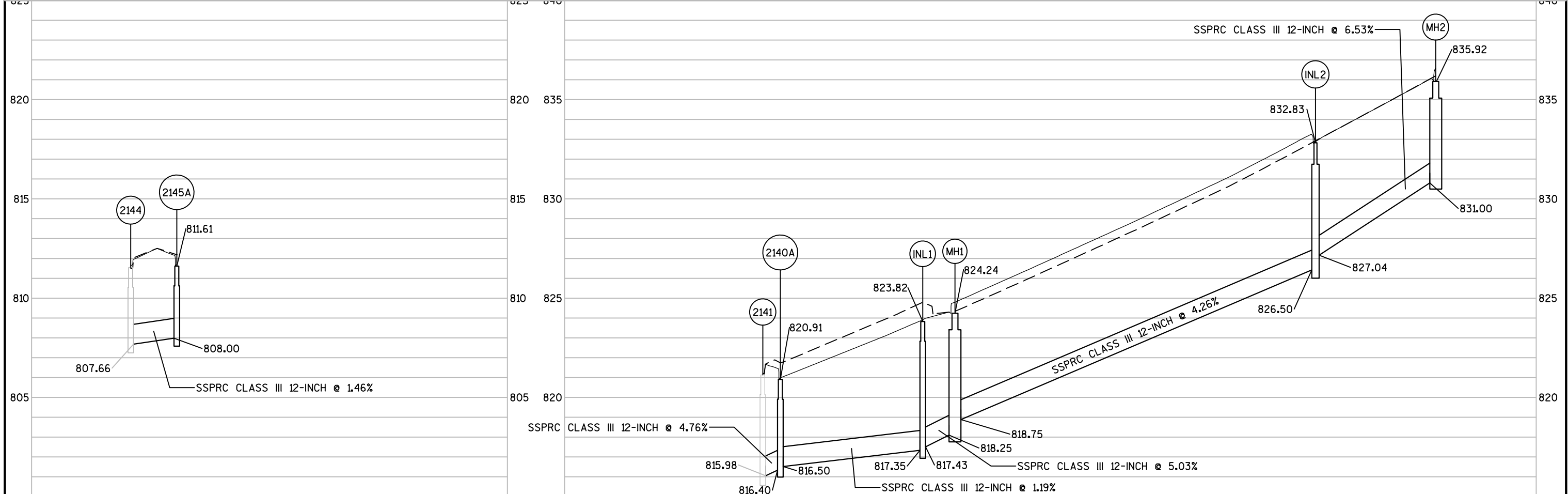
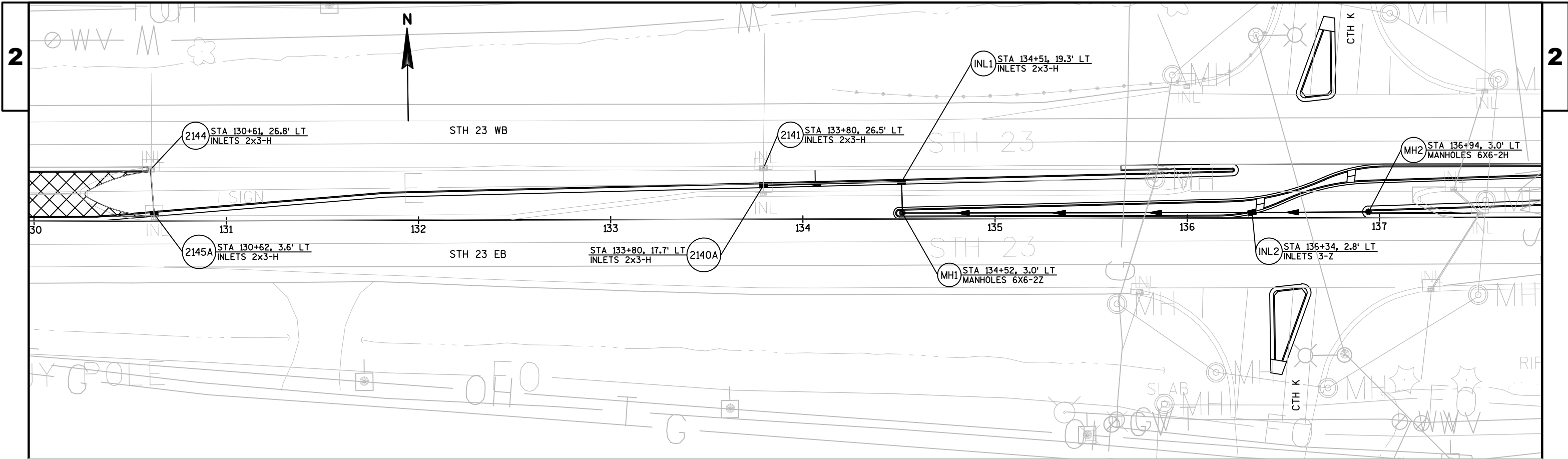
WISDOT/CADDS SHEET 42

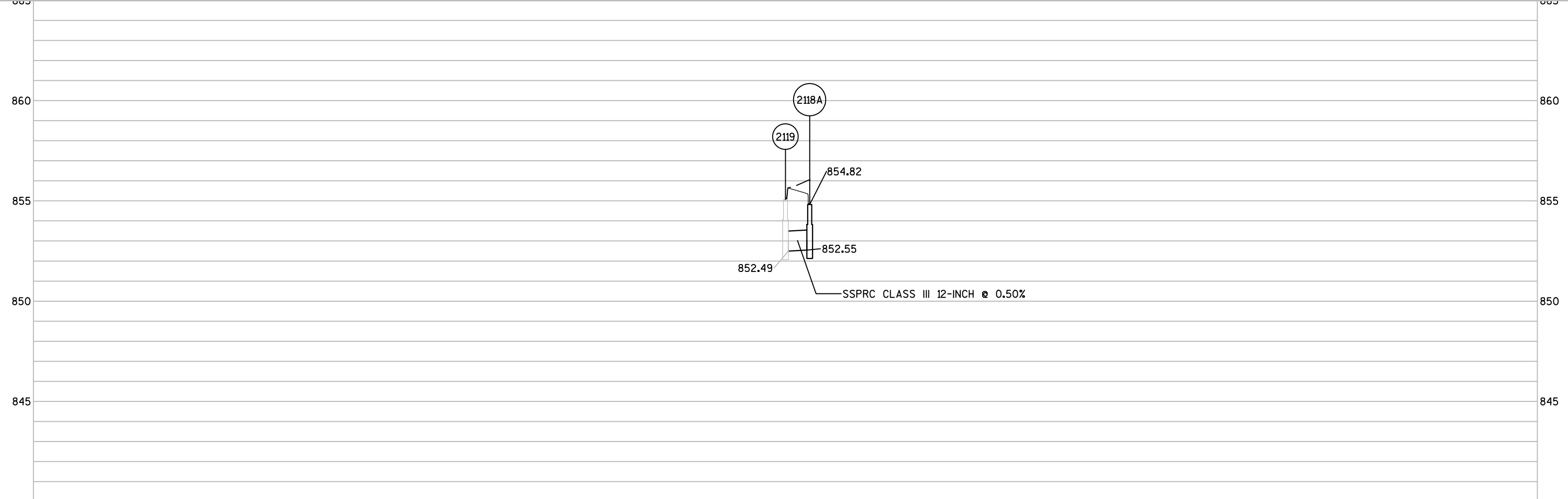
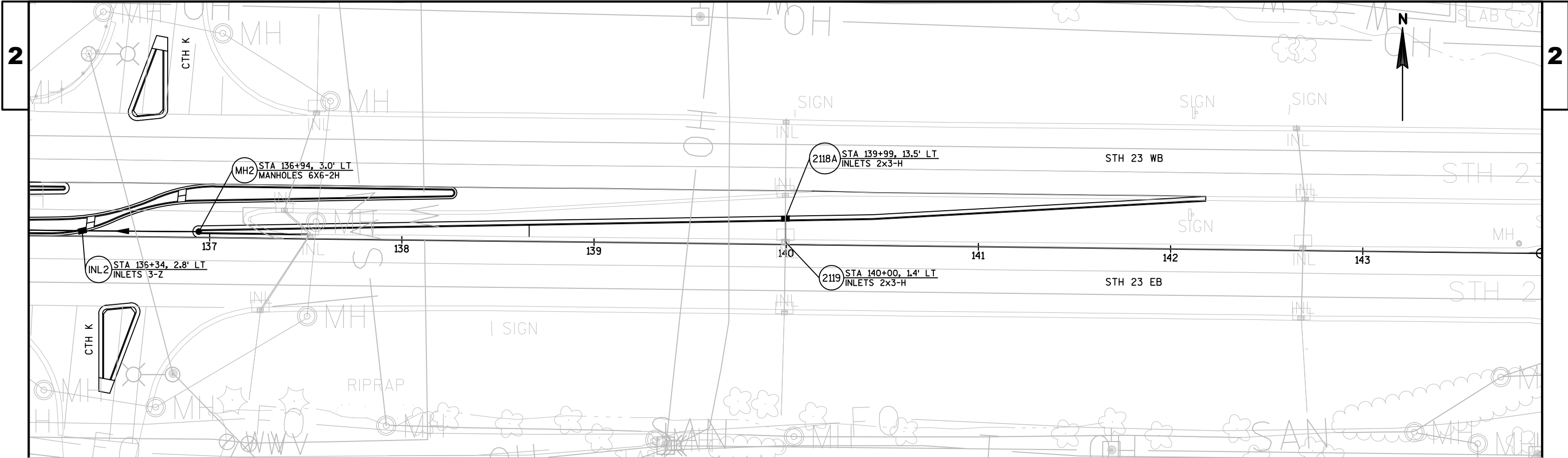








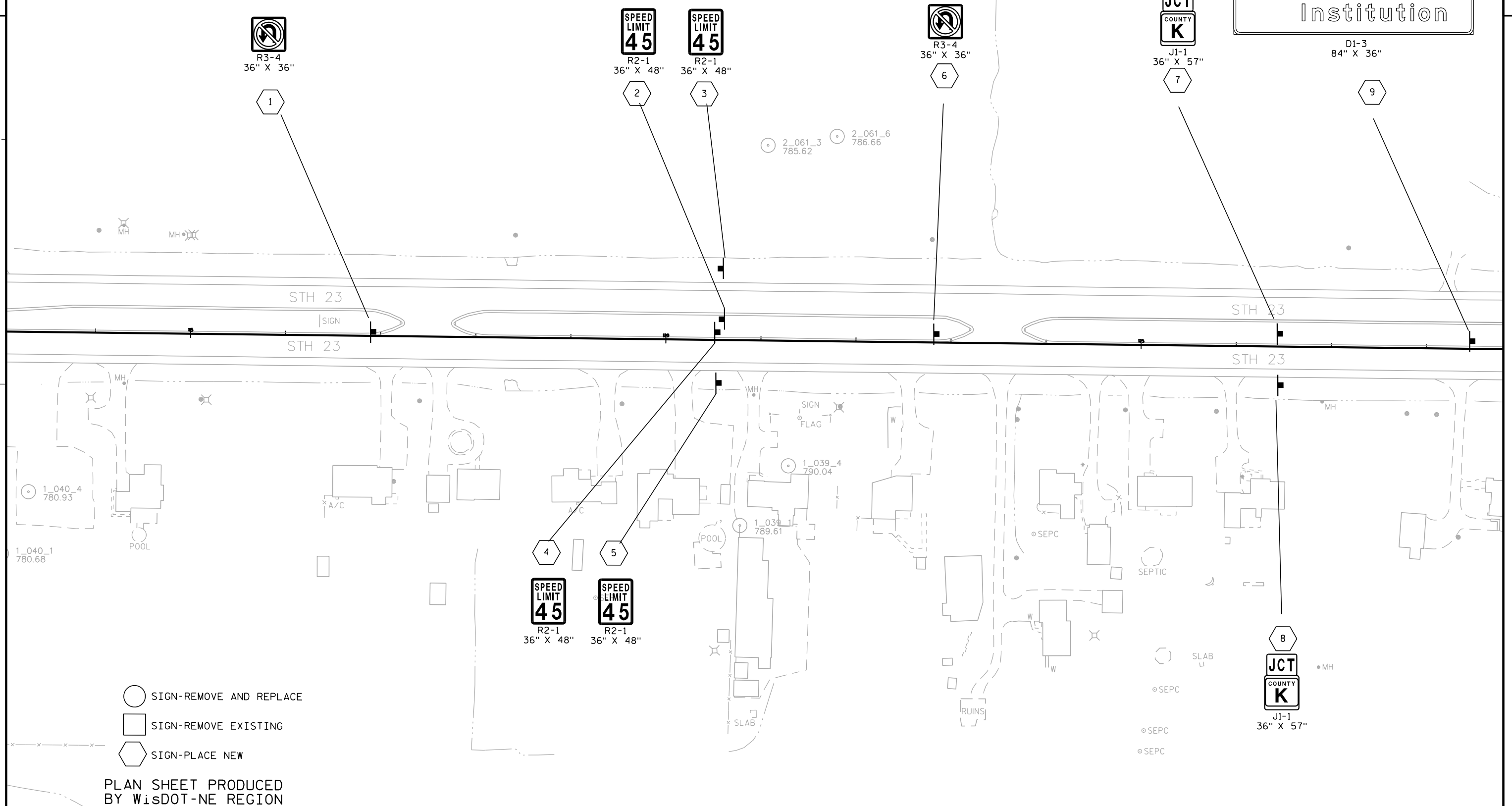




## SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT  
ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE  
REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND  
ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE  
SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN  
ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

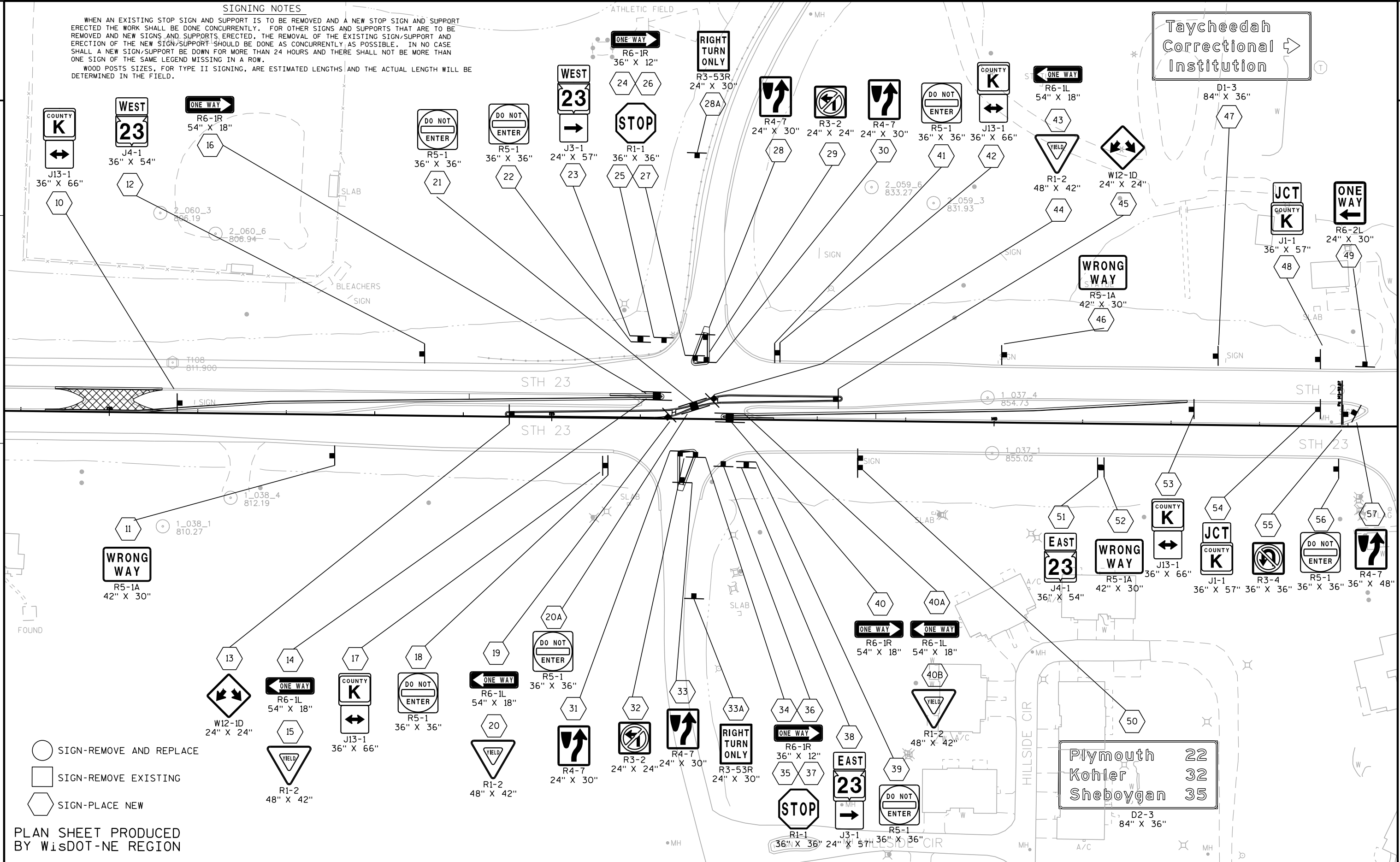
WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



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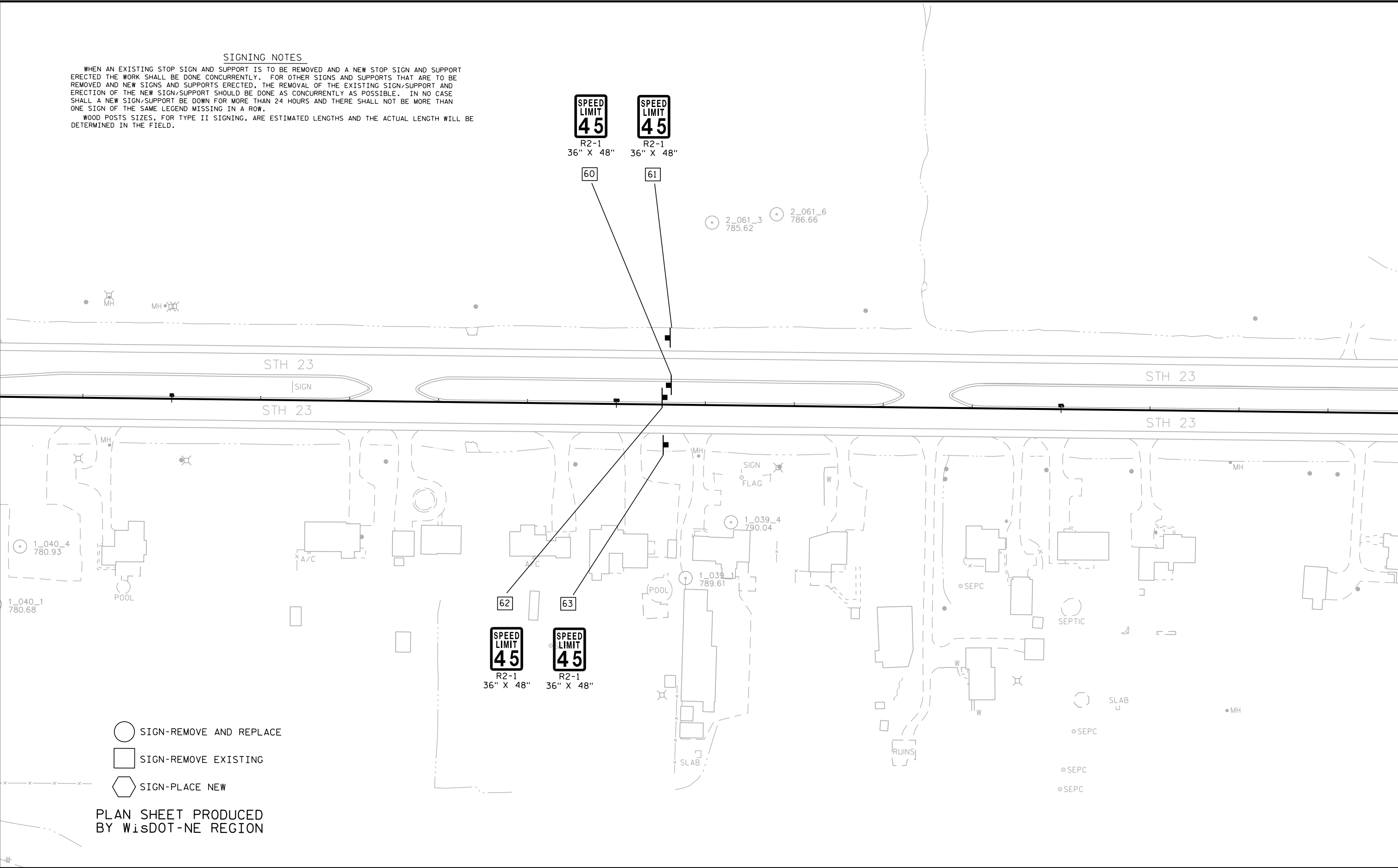
PLAN SHEET PRODUCED  
BY WISDOT-NE REGION

|                       |            |                   |                   |       |   |
|-----------------------|------------|-------------------|-------------------|-------|---|
| PROJECT NO:1440-35-71 | HWY:STH 23 | COUNTY:FON DU LAC | PERMANENT SIGNING | SHEET | E |
|-----------------------|------------|-------------------|-------------------|-------|---|

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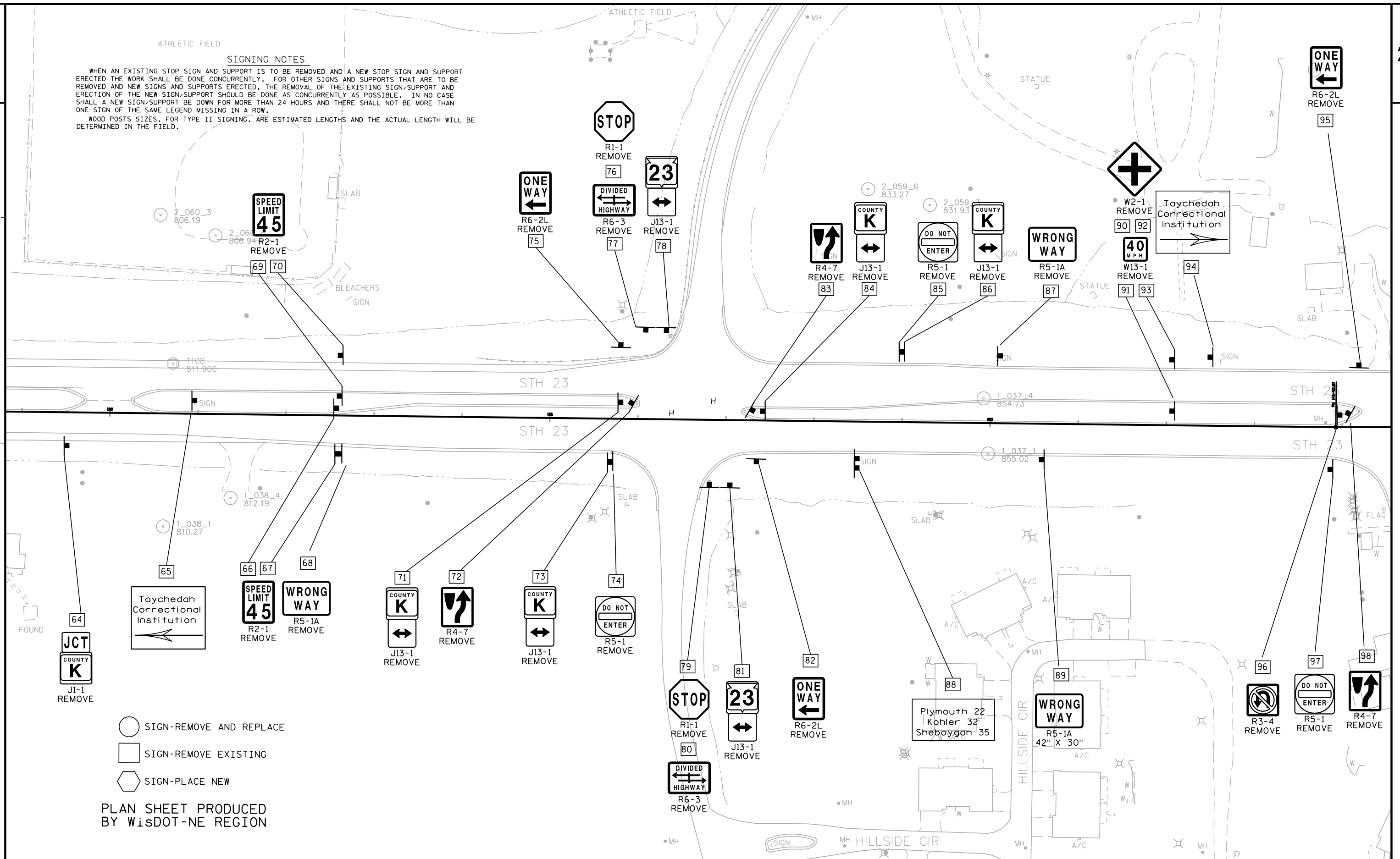
PLAN SHEET PRODUCED  
BY WisDOT-NE REGION

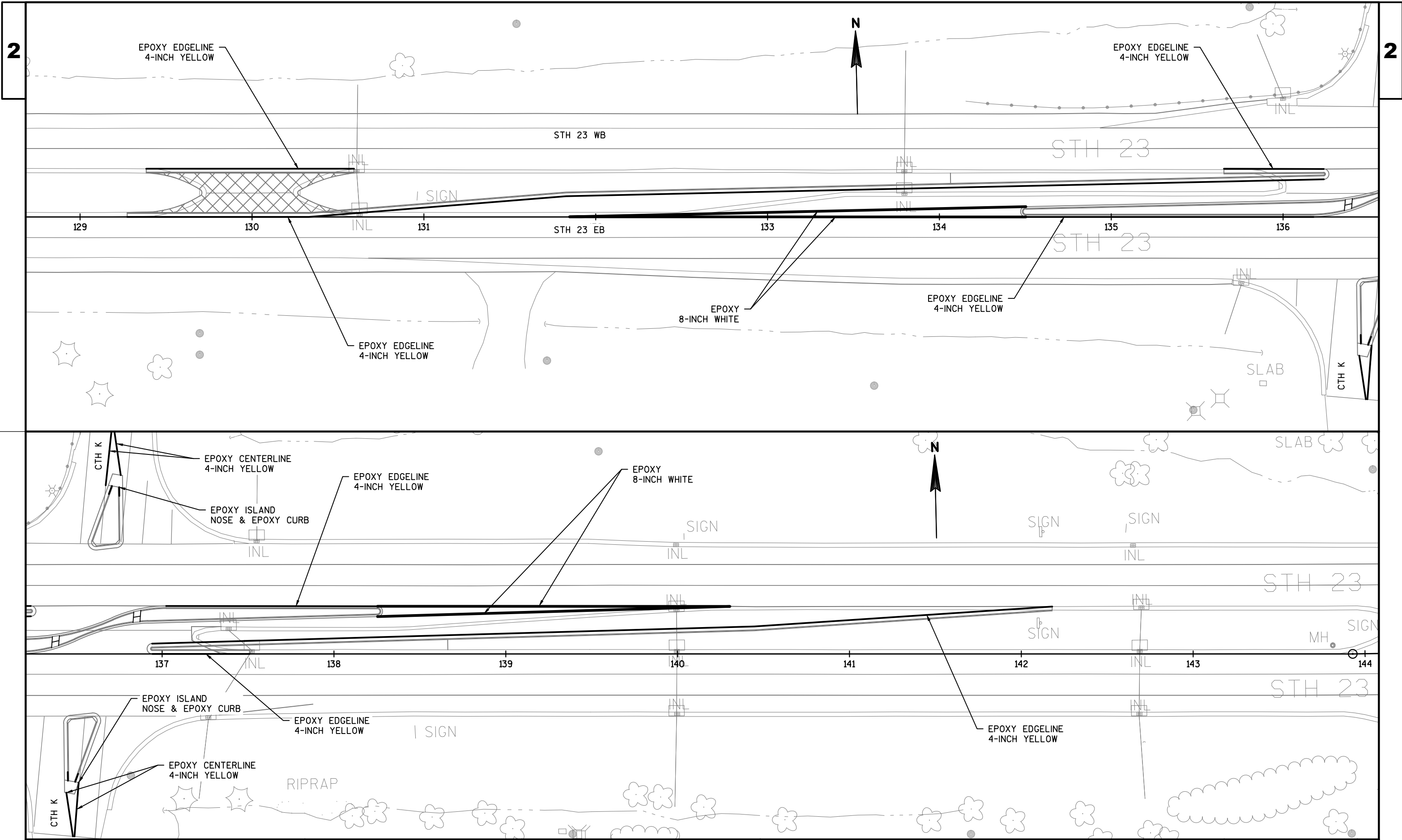
ATHLETIC FIELD

## SIGNING NOTES

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PROJECT NO:1440-35-71

HWY:STH 23

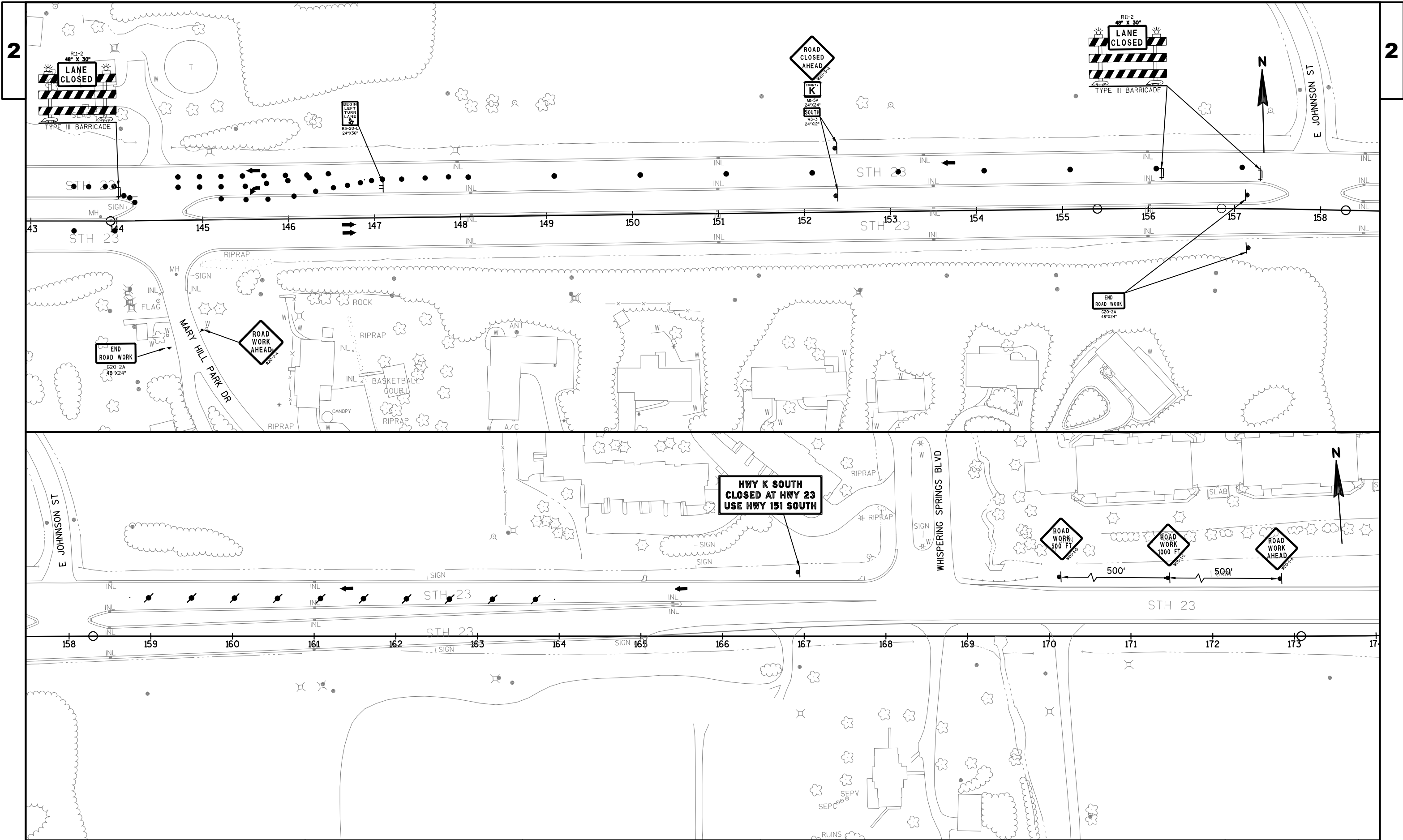
COUNTY:FOND DU LAC

PAVEMENT MARKING DETAIL

SHEET

E





# 2





| DATE 16JUN16 |            | E S T I M A T E O F Q U A N T I T I E S                       |      |           |            |
|--------------|------------|---------------------------------------------------------------|------|-----------|------------|
| LINE         |            |                                                               |      |           | 1440-35-71 |
| NUMBER       | ITEM       | ITEM DESCRIPTION                                              | UNIT | TOTAL     | QUANTITY   |
| 0010         | 204.0100   | Removing Pavement                                             | SY   | 1,799.000 | 1,799.000  |
| 0020         | 204.0220   | Removing Inlets                                               | EACH | 4.000     | 4.000      |
| 0030         | 204.0245   | Removing Storm Sewer (size) 01. 12-INCH                       | LF   | 73.000    | 73.000     |
| 0040         | 205.0100   | Excavation Common                                             | CY   | 910.000   | 910.000    |
| 0050         | 213.0100   | Finishing Roadway (project) 01. 1440-35-71                    | EACH | 1.000     | 1.000      |
| 0060         | 305.0120   | Base Aggregate Dense 1 1/4-Inch                               | TON  | 817.000   | 817.000    |
| 0070         | 305.0502.S | Shaping Roadway                                               | STA  | 13.000    | 13.000     |
| 0080         | 416.0620   | Drilled Dowel Bars                                            | EACH | 40.000    | 40.000     |
| 0090         | 416.1710   | Concrete Pavement Repair                                      | SY   | 40.000    | 40.000     |
| 0100         | 450.4000   | HMA Cold Weather Paving                                       | TON  | 178.000   | 178.000    |
| 0110         | 455.0605   | Tack Coat                                                     | GAL  | 159.000   | 159.000    |
| 0120         | 460.2000   | Incentive Density HMA Pavement                                | DOL  | 460.000   | 460.000    |
| 0130         | 460.6223   | HMA Pavement 3 MT 58-28 S                                     | TON  | 561.000   | 561.000    |
| 0140         | 460.6224   | HMA Pavement 4 MT 58-28 S                                     | TON  | 152.000   | 152.000    |
| 0150         | 465.0105   | Asphaltic Surface                                             | TON  | 75.000    | 75.000     |
| 0160         | 520.8000   | Concrete Collars for Pipe                                     | EACH | 3.000     | 3.000      |
| 0170         | 601.0405   | Concrete Curb & Gutter 18-Inch Type A                         | LF   | 755.000   | 755.000    |
| 0180         | 601.0409   | Concrete Curb & Gutter 30-Inch Type A                         | LF   | 1,617.000 | 1,617.000  |
| 0190         | 608.0312   | Storm Sewer Pipe Reinforced Concrete Class III 12-Inch        | LF   | 354.000   | 354.000    |
| 0200         | 611.0624   | Inlet Covers Type H                                           | EACH | 6.000     | 6.000      |
| 0210         | 611.0666   | Inlet Covers Type Z                                           | EACH | 3.000     | 3.000      |
| 0220         | 611.2066   | Manholes 6x6-FT                                               | EACH | 2.000     | 2.000      |
| 0230         | 611.3003   | Inlets 3-FT Diameter                                          | EACH | 1.000     | 1.000      |
| 0240         | 611.3230   | Inlets 2x3-FT                                                 | EACH | 4.000     | 4.000      |
| 0250         | 618.0100   | Maintenance And Repair of Haul Roads (project) 01. 1440-35-71 | EACH | 1.000     | 1.000      |
| 0260         | 619.1000   | Mobilization                                                  | EACH | 1.000     | 1.000      |
| 0270         | 620.0300   | Concrete Median Sloped Nose                                   | SF   | 236.000   | 236.000    |
| 0280         | 624.0100   | Water                                                         | MGAL | 11.000    | 11.000     |
| 0290         | 625.0500   | Salvaged Topsoil                                              | SY   | 1,567.000 | 1,567.000  |
| 0300         | 628.1905   | Mobilizations Erosion Control                                 | EACH | 3.000     | 3.000      |
| 0310         | 628.1910   | Mobilizations Emergency Erosion Control                       | EACH | 1.000     | 1.000      |
| 0320         | 628.2006   | Erosion Mat Urban Class I Type A                              | SY   | 1,567.000 | 1,567.000  |
| 0330         | 628.7015   | Inlet Protection Type C                                       | EACH | 29.000    | 29.000     |
| 0340         | 628.7570   | Rock Bags                                                     | EACH | 38.000    | 38.000     |
| 0350         | 629.0210   | Fertilizer Type B                                             | CWT  | 1.000     | 1.000      |
| 0360         | 630.0130   | Seeding Mixture No. 30                                        | LB   | 7.000     | 7.000      |
| 0370         | 630.0200   | Seeding Temporary                                             | LB   | 4.000     | 4.000      |
| 0380         | 634.0612   | Posts Wood 4x6-Inch X 12-FT                                   | EACH | 2.000     | 2.000      |
| 0390         | 634.0614   | Posts Wood 4x6-Inch X 14-FT                                   | EACH | 12.000    | 12.000     |
| 0400         | 634.0616   | Posts Wood 4x6-Inch X 16-FT                                   | EACH | 24.000    | 24.000     |
| 0410         | 634.0618   | Posts Wood 4x6-Inch X 18-FT                                   | EACH | 9.000     | 9.000      |
| 0420         | 637.2210   | Signs Type II Reflective H                                    | SF   | 561.590   | 561.590    |
| 0430         | 637.2230   | Signs Type II Reflective F                                    | SF   | 8.000     | 8.000      |
| 0440         | 638.2602   | Removing Signs Type II                                        | EACH | 34.000    | 34.000     |
| 0450         | 638.3000   | Removing Small Sign Supports                                  | EACH | 31.000    | 31.000     |
| 0460         | 643.0100   | Traffic Control (project) 01. 1440-35-71                      | EACH | 1.000     | 1.000      |
| 0470         | 643.0300   | Traffic Control Drums                                         | DAY  | 4,695.000 | 4,695.000  |
| 0480         | 643.0420   | Traffic Control Barricades Type III                           | DAY  | 934.000   | 934.000    |
| 0490         | 643.0705   | Traffic Control Warning Lights Type A                         | DAY  | 1,004.000 | 1,004.000  |
| 0500         | 643.0715   | Traffic Control Warning Lights Type C                         | DAY  | 799.000   | 799.000    |
| 0510         | 643.0800   | Traffic Control Arrow Boards                                  | DAY  | 94.000    | 94.000     |

| DATE 16JUN16 |          | E S T I M A T E O F Q U A N T I T I E S                            |      |           |            |
|--------------|----------|--------------------------------------------------------------------|------|-----------|------------|
| LINE         |          |                                                                    |      |           | 1440-35-71 |
| NUMBER       | ITEM     | ITEM DESCRIPTION                                                   | UNIT | TOTAL     | QUANTITY   |
| 0520         | 643.0900 | Traffic Control Signs                                              | DAY  | 2,241.000 | 2,241.000  |
| 0530         | 643.1000 | Traffic Control Signs Fixed Message                                | SF   | 84.000    | 84.000     |
| 0540         | 643.1050 | Traffic Control Signs PCMS                                         | DAY  | 42.000    | 42.000     |
| 0550         | 646.0106 | Pavement Marking Epoxy 4-Inch                                      | LF   | 1,868.000 | 1,868.000  |
|              |          |                                                                    |      |           |            |
| 0560         | 646.0126 | Pavement Marking Epoxy 8-Inch                                      | LF   | 942.000   | 942.000    |
| 0570         | 647.0456 | Pavement Marking Curb Epoxy                                        | LF   | 20.000    | 20.000     |
| 0580         | 647.0606 | Pavement Marking Island Nose Epoxy                                 | EACH | 2.000     | 2.000      |
| 0590         | 649.0400 | Temporary Pavement Marking Removable Tape 4-Inch                   | LF   | 230.000   | 230.000    |
| 0600         | 649.0506 | Temporary Pavement Marking Removable Mask-Out Tape 6-Inch          | LF   | 75.000    | 75.000     |
|              |          |                                                                    |      |           |            |
| 0610         | 650.4000 | Construction Staking Storm Sewer                                   | EACH | 7.000     | 7.000      |
| 0620         | 650.4500 | Construction Staking Subgrade                                      | LF   | 1,291.000 | 1,291.000  |
| 0630         | 650.5000 | Construction Staking Base                                          | LF   | 1,291.000 | 1,291.000  |
| 0640         | 650.5500 | Construction Staking Curb Gutter and Curb & Gutter                 | LF   | 2,372.000 | 2,372.000  |
| 0650         | 650.9910 | Construction Staking Supplemental Control (project) 01. 1440-35-71 | LS   | 1.000     | 1.000      |
|              |          |                                                                    |      |           |            |
| 0660         | 653.0905 | Removing Pull Boxes                                                | EACH | 2.000     | 2.000      |
| 0670         | 690.0250 | Sawing Concrete                                                    | LF   | 1,923.000 | 1,923.000  |
| 0680         | ASP.1T0A | On-the-Job Training Apprentice at \$5.00/HR                        | HRS  | 150.000   | 150.000    |
| 0690         | ASP.1T0G | On-the-Job Training Graduate at \$5.00/HR                          | HRS  | 300.000   | 300.000    |
| 0700         | SPV.0045 | Special 01. Incentive for Final Completion of Work                 | DAY  | 5.000     | 5.000      |

| REMOVING PAVEMENT |    |         |           |          |
|-------------------|----|---------|-----------|----------|
| 1440-35-71        |    |         |           |          |
|                   |    |         |           | 204.0100 |
| STATION           | TO | STATION | LOCATION  | SY       |
| 129+27            | -  | 130+57  | STH 23    | 267      |
| 130+57            | -  | 142+18  | STH 23    | 1353     |
| 134+44            | -  | 134+59  | STH 23    | 20       |
| 136+43            | -  | 136+65  | TH K SOUT | 73       |
| 136+57            | -  | 136+79  | TH K SOUT | 66       |
| 136+85            | -  | 137+00  | STH 23    | 20       |
| PROJECT TOTAL     |    |         |           | 1799     |

| REMOVING INLETS |          |          |
|-----------------|----------|----------|
| 1440-35-71      |          |          |
|                 |          | 204.0220 |
| STATION         | LOCATION | EACH     |
| 130+63          | LT       | 1        |
| 133+80          | LT       | 1        |
| 137+39          | LT       | 1        |
| 140+00          | LT       | 1        |
| PROJECT TOTAL   |          | 4        |

| REMOVING STORM SEWER (12 INCH) |          |          |
|--------------------------------|----------|----------|
| 1440-35-71                     |          |          |
|                                |          | 204.0245 |
| STATION                        | LOCATION | LF       |
| 130+63                         | LT       | 23       |
| 133+80                         | LT       | 11       |
| 137+39                         | LT       | 17       |
| 140+00                         | LT       | 22       |
| PROJECT TOTAL                  |          | 73       |

| REMOVING PULL BOXES |               |          |
|---------------------|---------------|----------|
| 1440-35-71          |               |          |
|                     |               | 653.0905 |
| STATION             | LOCATION      | EACH     |
| 135+83              | STH 23 MEDIAN | 1        |
| 137+55              | STH 23 MEDIAN | 1        |
| PROJECT TOTAL       |               | 2        |

EARTHWORK

| Division            | From/To Station       | Location | Common Excavation (1) | (item #<br>205.0100)     | Available<br>Material (5) | Unexpanded<br>Fill | Expanded Fill<br>(13) | Mass Ordinate<br>+/- (14) | Waste | Borrow           | Comment: |
|---------------------|-----------------------|----------|-----------------------|--------------------------|---------------------------|--------------------|-----------------------|---------------------------|-------|------------------|----------|
|                     |                       |          | Cut (2)               | EBS<br>Excavation<br>(3) |                           |                    | Factor<br>1.25        |                           |       |                  |          |
| Division 1          |                       |          |                       |                          |                           |                    |                       |                           |       | (item #208.0100) |          |
| STH 23 Median       | 129+27.01 - 142+24.64 |          | 910                   | 0                        | 910                       | 20                 | 25                    | 885                       | 885   | 0                |          |
| Division 1 Subtotal |                       |          | 910                   | 0                        | 910                       | 20                 | 25                    | 885                       | 885   | 0                |          |
| Grand Total         |                       |          | 910                   | 0                        | 910                       | 20                 | 25                    | 885                       | 885   | 0                |          |
| Total Common Exc    |                       |          | 910                   |                          |                           |                    |                       |                           |       |                  |          |

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100  
2) Salvaged/Unsuable Pavement Material is included in Cut.  
3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.  
5) Available Material = Cut - Salvaged/Unusuable Pavement Material  
13) Expanded Fill. Factor = 1.25  
Depending on selections:

Expanded Fill = (Unexpanded Fill) \* Fill Factor

BASE AGGREGATE SUMMARY

1440-35-71  
305.0120 305.0520.S 624.0100  
BASE SHAPING WATER  
AGGREGATE ROADWAY  
DENSE  
1 1/4-INCH

| STATION TO STATION | LOCATION        | TON | STA | MGAL | REMARKS             |
|--------------------|-----------------|-----|-----|------|---------------------|
| 129+27 - 139+50    | STH 23 MEDIAN   | 571 | 10  | 8.0  | 9", RE-USE EXISTING |
| 139+50 - 142+00    | STH 23 MEDIAN   | 95  | 3   | 1.3  | 6", RE-USE EXISTING |
| 129+38 - 130+60    | CURB AND GUTTER | 10  | --- | 0.1  | 9", RE-USE EXISTING |
| 136+06 - 136+24    | WEST MEDIAN     | 28  | --- | 0.4  |                     |
| 134+49 - 138+27    | MEDIAN ISLAND   | 82  | --- | 1.1  |                     |
| 136+94 - 138+66    | EAST MEDIAN     | 22  | --- | 0.3  |                     |
| CTH K NORTH        | ISLAND          | 4   | --- | 0.1  |                     |
| CTH K SOUTH        | ISLAND          | 5   | --- | 0.1  |                     |
| PROJECT TOTALS     |                 | 817 | 13  | 11   |                     |

PAVEMENT SUMMARY

1440-35-71  
416.0620 416.1710 450.4000 460.6223 460.6224 455.0605 465.0105  
DRILLED CONCRETE HMA HMA HMA TACK ASPHALTIC  
DOWEL PAVEMENT COLD WEATHER PAVEMENT PAVEMENT COAT SURFACE  
BARS REPAIR PAVING 3 MT58-28 S 4 MT58-28 S

| STATION TO STATION | LOCATION      | EACH | SY  | TON | TON | TON | GAL | TON | REMARKS |
|--------------------|---------------|------|-----|-----|-----|-----|-----|-----|---------|
| 130+33 - 137+03    | STH 23 EB     | ---  | --- | 96  | 303 | 82  | 86  | --- |         |
| 136+19 - 142+18    | STH 23 WB     | ---  | --- | 82  | 258 | 70  | 73  | --- |         |
| 134+06 - 136+24    | MEDIAN        | ---  | --- | --- | --- | --- | --- | 15  |         |
| 134+49 - 138+27    | MEDIAN ISLAND | ---  | --- | --- | --- | --- | --- | 35  |         |
| 136+94 - 138+66    | MEDIAN        | ---  | --- | --- | --- | --- | --- | 12  |         |
| CTH K NORTH        | ISLAND        | ---  | --- | --- | --- | --- | --- | 6   |         |
| CTH K SOUTH        | ISLAND        | ---  | --- | --- | --- | --- | --- | 7   |         |
| 134+44 - 134+59    | STH 23 EB     | 20   | 20  | --- | --- | --- | --- | --- |         |
| 136+85 - 137+00    | STH 23 EB     | 20   | 20  | --- | --- | --- | --- | --- |         |
| PROJECT TOTALS     |               | 40   | 40  | 178 | 561 | 152 | 159 | 75  |         |

CURB & GUTTER SUMMARY

|                |          |                 |                 |          |     |
|----------------|----------|-----------------|-----------------|----------|-----|
| 1440-35-71     |          |                 |                 |          |     |
|                |          | 601.0405        | 601.0409        | 620.0300 |     |
|                |          | CURB AND GUTTER | CURB AND GUTTER | CONCRETE |     |
|                |          | 18-INCH         | 30-INCH         | SLOPED   |     |
|                |          | TYPE A          | TYPE A          | NOSE     |     |
| STATION TO     | STATION  | LOCATION        | LF              | LF       | SF  |
| 134+47         | - 138+28 | STH 23 MEDIAN   | 755             | ---      | 36  |
| 129+27         | - 135+65 | EB LT TURN LANE | ---             | 755      | 18  |
| 137+60         | - 142+18 | WB LT TURN LANE | ---             | 581      | 18  |
| 129+39         | - 130+59 | STH 23 WB       | ---             | 120      | --- |
| 136+57         | - 136+77 | CTH K NORTH     | ---             | 77       | 82  |
| 136+43         | - 136+65 | CTH K SOUTH     | ---             | 84       | 82  |
| PROJECT TOTALS |          |                 | 755             | 1617     | 236 |

STORM SEWER PIPES

|                |       |       |           |           |           |
|----------------|-------|-------|-----------|-----------|-----------|
| 1440-35-71     |       |       |           |           |           |
|                |       |       |           | 608.0312  | 520.8000  |
|                |       |       |           | SSPRC     | CONCRETE  |
|                |       |       |           | CLASS III | COLLAR    |
|                |       |       |           | 12-INCH   | FOR PIPES |
| STRUCTURE      | TO    | FROM  | DISCHARGE | INLET     | LF        |
|                | 2144  | 2145A | 807.7     | 808.0     | 6         |
|                | 2141  | 2140A | 816.0     | 816.4     | 6         |
|                | 2140A | INL 1 | 816.5     | 817.4     | 72        |
|                | INL1  | MH1   | 817.4     | 818.3     | 16        |
|                | MH1   | INL 2 | 819.0     | 826.5     | 182       |
|                | INL2  | MH2   | 827.0     | 831.0     | 62        |
|                | 2118A | 2119  | 852.5     | 852.6     | 10        |
| PROJECT TOTALS |       |       |           | 354       | 3         |

STORM SEWER STRUCTURE ITEMS

|                |         |          |           |          |          |           |          |          |              |      |      |
|----------------|---------|----------|-----------|----------|----------|-----------|----------|----------|--------------|------|------|
| 1440-35-71     |         |          |           |          |          |           |          |          |              |      |      |
|                |         |          |           | 611.0624 | 611.0666 | *611.2066 | 611.3003 | 611.3230 | 650.4000     |      |      |
|                |         |          |           | INLET    | INLET    | MANHOLES  | INLET    | INLETS   | CONSTRUCTION |      |      |
|                |         |          |           | COVERS   | COVER    | 6X6 FT    | 3 FT     | 2X3 FT   | STAKING      |      |      |
|                |         |          |           | TYPE H   | TYPE Z   |           | DIAMETER |          | STORM SEWER  |      |      |
| STRUCTURE NO   | STATION | OFFSET   | RIM       | DEPTH    | TYPE H   | TYPE Z    |          |          |              |      |      |
|                |         |          | ELEVATION | FT       | EACH     | EACH      | EACH     | EACH     | EACH         | EACH | EACH |
| 2145A          | 130+62  | 3.6' LT  | 811.6     | 3.4      | 1        | ---       | ---      | ---      | 1            | 1    |      |
| 2140A          | 133+80  | 17.7' LT | 820.9     | 5.2      | 1        | ---       | ---      | ---      | 1            | 1    |      |
| INL1           | 134+51  | 19.3' LT | 823.8     | 6.2      | 1        | ---       | ---      | ---      | 1            | 1    |      |
| MH1            | 134+52  | 3.0' LT  | 824.2     | 6.7      | ---      | 2         | 1        | ---      | ---          | 1    |      |
| INL2           | 136+34  | 2.8' LT  | 832.8     | 6.1      | ---      | 1         | ---      | 1        | ---          | 1    |      |
| MH2            | 136+94  | 3.0' LT  | 835.9     | 4.7      | 2        | ---       | 1        | ---      | ---          | 1    |      |
| 2118A          | 139+99  | 13.5' LT | 854.8     | 2.0      | 1        | ---       | ---      | ---      | 1            | 1    |      |
| PROJECT TOTALS |         |          |           |          | 6        | 3         | 2        | 1        | 4            | 7    |      |

\*USE FLAT SLAB TOP WITH TWO (2) HOLES CUT TO SIZE FOR INLET COVER TYPE

LANDSCAPING SUMMARY

|                    |               |                  |      |                   |                   |                   |  |
|--------------------|---------------|------------------|------|-------------------|-------------------|-------------------|--|
|                    |               | 1440-35-71       |      |                   |                   |                   |  |
|                    |               | 625.0500         |      | 629.0210          | 630.0130          | 630.0200          |  |
|                    |               | SALVAGED TOPSOIL |      | FERTILIZER TYPE B | SEEDING MIX NO 30 | SEEDING TEMPORARY |  |
| STATION TO STATION | LOCATION      | SY               | CWT  | LB                | LB                |                   |  |
| 129+27 - 135+66    | STH 23 MEDIAN | 763              | 0.01 | 3                 | 2                 |                   |  |
| 137+51 - 142+18    | STH 23 MEDIAN | 491              | 0.01 | 2                 | 1                 |                   |  |
| UNDISTRIBUTED      |               | 313              | 0    | 1                 | 1                 |                   |  |
| PROJECT TOTALS     |               | 1567             | 1    | 7                 | 4                 |                   |  |

EROSION CONTROL SUMMARY

|                    |                              |                                   |                                         |                                  |                         |           |
|--------------------|------------------------------|-----------------------------------|-----------------------------------------|----------------------------------|-------------------------|-----------|
|                    |                              | 1440-35-71                        |                                         |                                  |                         |           |
|                    |                              | 628.1905                          | 628.1910                                | 628.2006                         | 628.7015                | 628.7570  |
|                    |                              | MOBILIZATIONS FOR EROSION CONTROL | EMERGENCY MOBILIZATIONS EROSION CONTROL | EROSION MAT URBAN CLASS I TYPE A | INLET PROTECTION TYPE C | ROCK BAGS |
| STATION TO STATION | LOCATION                     | EACH                              | EACH                                    | SY                               | EACH                    | EACH      |
| PROJECT            |                              | 3                                 | 1                                       | ---                              | ---                     |           |
| 129+27 - 135+66    | STH 23 MEDIAN                | ---                               | ---                                     | 763                              | ---                     | 15        |
| 137+51 - 142+18    | STH 23 MEDIAN                | ---                               | ---                                     | 491                              | ---                     | 15        |
| 124+09             | STH 23 MEDIAN                | ---                               | ---                                     | ---                              | 2                       | ---       |
| 127+35             | STH 23 MEDIAN                | ---                               | ---                                     | ---                              | 2                       | ---       |
| 130+61             | STH 23 MEDIAN                | ---                               | ---                                     | ---                              | 2                       | ---       |
| 133+80             | STH 23 MEDIAN                | ---                               | ---                                     | ---                              | 2                       | ---       |
| 134+51             | STH 23 MEDIAN                | ---                               | ---                                     | ---                              | 3                       | ---       |
| 135+77             | STH 23 EB OUTSIDE            | ---                               | ---                                     | ---                              | 1                       | ---       |
| 136+00             | STH 23 WB OUTSIDE            | ---                               | ---                                     | ---                              | 1                       | ---       |
| 136+33             | STH 23 MEDIAN                | ---                               | ---                                     | ---                              | 1                       | ---       |
| 136+96             | STH 23 MEDIAN                | ---                               | ---                                     | ---                              | 2                       | ---       |
| 137+28             | STH 23 EB OUTSIDE            | ---                               | ---                                     | ---                              | 1                       | ---       |
| 137+54             | STH 23 WB INSIDE AND OUTSIDE | ---                               | ---                                     | ---                              | 2                       | ---       |
| 140+00             | STH 23 MEDIAN AND OUTSIDE    | ---                               | ---                                     | ---                              | 4                       | ---       |
| PROJECT            | UNDISTRIBUTED                | ---                               | ---                                     | 313                              | 6                       | 8         |
| PROJECT TOTALS     |                              | 3                                 | 1                                       | 1567                             | 29                      | 38        |

TRAFFIC CONTROL SIGNS SUMMARY - MEDIAN CLOSURE

|               |             |             |                |      |                          |
|---------------|-------------|-------------|----------------|------|--------------------------|
| 1440-35-71    |             |             |                |      |                          |
| 643.0900      |             |             |                |      |                          |
| APPROX. SIGN  |             |             |                |      |                          |
| SERVICE       |             |             |                |      |                          |
| LOCATION      | SIGN NUMBER | PERIOD DAYS | NO. IN SERVICE | DAYS | REMARKS                  |
| EASTBOUND     |             |             |                |      |                          |
| 109+00        | W20-1       | 47          | 2              | 94   | ROADWORK AHEAD           |
| 114+00        | W20-55-C    | 47          | 2              | 94   | LEFT LANE CLOSED 1000 FT |
| 119+00        | W04-2L      | 47          | 2              | 94   |                          |
| 122+00        | W20-3-A     | 47          | 2              | 94   | ROAD CLOSED AHEAD        |
| 122+00        | M1-5A       | 47          | 2              | 94   | COUNTY K                 |
| 122+00        | M3-1        | 47          | 2              | 94   | NORTH                    |
| 123+50        | R11-2       | 47          | 1              | 47   | LANE CLOSED              |
| 124+50        | R11-2       | 47          | 1              | 47   | LANE CLOSED              |
| 132+50        | R3-2        | 47          | 1              | 47   | NO LEFT TURNS            |
| 135+00        | R3-2        | 47          | 1              | 47   | NO LEFT TURNS            |
| 136+50        | W01-6       | 47          | 1              | 47   | RIGHT ARROW              |
| 157+00        | G20-2A      | 47          | 2              | 94   | END ROAD WORK            |
| WESTBOUND     |             |             |                |      |                          |
| 120+50        | G20-2A      | 47          | 2              | 94   | END ROAD WORK            |
| 131+00        | R11-2       | 47          | 1              | 47   | LANE CLOSED              |
| 137+50        | R3-2        | 47          | 1              | 47   | NO LEFT TURNS            |
| 140+00        | R3-2        | 47          | 1              | 47   | NO LEFT TURNS            |
| 144+00        | R11-2       | 47          | 1              | 47   | LANE CLOSED              |
| 147+00        | R3-20-L     | 47          | 1              | 47   | BEGIN LEFT TURN LANE     |
| 152+50        | W20-3-A     | 47          | 2              | 94   | ROAD CLOSED AHEAD        |
| 152+50        | M1-5A       | 47          | 2              | 94   | COUNTY K                 |
| 152+50        | M3-3        | 47          | 2              | 94   | SOUTH                    |
| 156+00        | R11-2       | 47          | 1              | 47   | LANE CLOSED              |
| 157+00        | R11-2       | 47          | 1              | 47   | LANE CLOSED              |
| 170+00        | W20-1-D     | 47          | 1              | 47   | ROAD WORK 500 FT         |
| 175+00        | W20-1-C     | 47          | 1              | 47   | ROAD WORK 1000 FT        |
| 180+00        | W20-1       | 47          | 1              | 47   | ROADWORD AHEAD           |
| SUBTOTAL 1739 |             |             |                |      |                          |

TRAFFIC CONTROL SIGNS SUMMARY - MEDIAN CLOSURE CONTINUED

|                   |             |             |                |      |                |
|-------------------|-------------|-------------|----------------|------|----------------|
| 1440-35-71        |             |             |                |      |                |
| 643.0900          |             |             |                |      |                |
| APPROX. SIGN      |             |             |                |      |                |
| SERVICE           |             |             |                |      |                |
| LOCATION          | SIGN NUMBER | PERIOD DAYS | NO. IN SERVICE | DAYS | REMARKS        |
| CTH K NORTH       |             |             |                |      |                |
|                   | W20-1       | 47          | 1              | 47   | ROADWORK AHEAD |
|                   | G20-2A      | 47          | 1              | 47   | END ROAD WORK  |
|                   | W01-6       | 47          | 1              | 47   |                |
| CTH K SOUTH       |             |             |                |      |                |
|                   | W20-1       | 47          | 1              | 47   | ROADWORK AHEAD |
|                   | G20-2A      | 47          | 1              | 47   | END ROAD WORK  |
|                   | W01-6       | 47          | 1              | 47   |                |
| MARY HILL PARK DR |             |             |                |      |                |
|                   | W20-1       | 47          | 1              | 47   | ROADWORK AHEAD |
|                   | G20-2A      | 47          | 1              | 47   | END ROAD WORK  |
| SUBTOTAL 376      |             |             |                |      |                |

TRAFFIC CONTROL SIGNS SUMMARY - CTH K CLOSURE

|                     |             |             |                |      |                    |
|---------------------|-------------|-------------|----------------|------|--------------------|
| 1440-35-71          |             |             |                |      |                    |
| 643.0900            |             |             |                |      |                    |
| APPROX. SIGN        |             |             |                |      |                    |
| SERVICE             |             |             |                |      |                    |
| LOCATION            | SIGN NUMBER | PERIOD DAYS | NO. IN SERVICE | DAYS | REMARKS            |
| EASTBOUND           |             |             |                |      |                    |
| 130+00              | R3-1        | 7           | 1              | 7    | NO RIGHT TURNS     |
| 133+50              | R11-2-L     | 7           | 1              | 7    | LANE CLOSED        |
| 134+50              | R3-1        | 7           | 1              | 7    | NO RIGHT TURNS     |
| 136+50              | R11-2       | 7           | 1              | 7    | ROAD CLOSED        |
| WESTBOUND           |             |             |                |      |                    |
| 137+00              | R11-2       | 7           | 1              | 7    | ROAD CLOSED        |
| 138+50              | R3-1        | 7           | 1              | 7    | LANE CLOSED        |
| 139+50              | R11-2-L     | 7           | 1              | 7    | LANE CLOSED        |
| 143+00              | R3-1        | 7           | 1              | 7    | NO RIGHT TURNS     |
| CTH K NORTH         |             |             |                |      |                    |
| AT USH 151          | R11-4       | 7           | 1              | 7    | ON CTH K           |
| SOUTH OF HUNTER AVE | R11-4       | 7           | 1              | 7    | ON CTH K           |
| USH 151             | W20-3-A     | 7           | 1              | 7    | ROAD CLOSED AHEAD  |
| LIMITS +500 FT      | W20-3-D     | 7           | 1              | 7    | ROAD CLOSED 500 FT |
| WORK LIMITS         | R11-2       | 7           | 1              | 7    | ROAD CLOSED        |
| CTH K SOUTH         |             |             |                |      |                    |
| WORK LIMITS         | R11-2       | 7           | 1              | 7    | ON CTH K           |
| LIMITS +500 FT      | W20-3-D     | 7           | 1              | 7    | ON CTH K           |
| CTH T               | W20-3-A     | 7           | 1              | 7    |                    |
| AT EASTWIND LN      | R11-4       | 7           | 1              | 7    | ON CTH K           |
| AT BELLEVUE BLVD    | R11-4       | 7           | 1              | 7    | ON CTH K           |
| SUBTOTAL 126        |             |             |                |      |                    |

PROJECT TOTALS 2241

| MEDIAN CLOSURE                |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
|-------------------------------|--------------------------------------|----------|------|------------|------|----------------|------|----------|------|----------------|------|----------|------|--------------------------|
| TRAFFIC CONTROL SUMMARY       |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| 1440-35-71                    |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| LOCATION                      | APPROX.<br>SERVICE<br>PERIOD<br>DAYS | 643.0300 |      | 643.0420   |      | 643.0705       |      | 643.0800 |      | 643.0715       |      | 643.1050 |      | REMARKS                  |
|                               |                                      | DRUMS    |      | BARRICADES |      | WARNING LIGHTS |      | ARROW    |      | Warning Lights |      | PCMS     |      |                          |
|                               |                                      | NO. IN   |      | TYPE III   |      | TYPE A         |      | BOARDS   |      | Type C         |      |          |      |                          |
|                               |                                      | SERVICE  | DAYS | SERVICE    | DAYS | SERVICE        | DAYS | SERVICE  | DAYS | SERVICE        | DAYS | SERVICE  | DAYS |                          |
| EASTBOUND                     |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| WEST OF PROJECT               | 7                                    | 5        | 35   | ---        | ---  | ---            | ---  | ---      | ---  | ---            | ---  | 1        | 7    |                          |
| 123+00                        | 47                                   | 5        | 235  | ---        | ---  | ---            | ---  | 1        | 47   | ---            | ---  | ---      | ---  |                          |
| 124+00 - 144+00               | 47                                   | 23       | 1081 | 2          | 94   | 4              | 188  | 1        | 47   | 6              | 282  | ---      | ---  |                          |
| 136+00 - 137+00               | 47                                   | ---      | ---  | 5          | 235  | 6              | 282  | ---      | ---  | ---            | ---  | ---      | ---  |                          |
| WESTBOUND                     |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| EAST OF PROJECT               | 7                                    | 5        | 35   | ---        | ---  | ---            | ---  | ---      | ---  | ---            | ---  | 1        | 7    |                          |
| 126+00 - 164+00               | 47                                   | 64       | 3008 | 4          | 188  | ---            | ---  | ---      | ---  | 11             | 517  | ---      | ---  |                          |
| 136+00 - 137+00               | 47                                   | ---      | ---  | 5          | 235  | 6              | 282  | ---      | ---  | ---            | ---  | ---      | ---  |                          |
| SUBTOTALS                     |                                      | 4394     |      | 752        |      | 752            |      | 94       |      | 799            |      | 14       |      |                          |
| CTH K CLOSURE                 |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| TRAFFIC CONTROL SUMMARY       |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| 1440-35-71                    |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| LOCATION                      | APPROX.<br>SERVICE<br>PERIOD<br>DAYS | 643.0300 |      | 643.0420   |      | 643.0705       |      | 643.0800 |      | 643.0715       |      | 643.1050 |      | REMARKS                  |
|                               |                                      | DRUMS    |      | BARRICADES |      | WARNING LIGHTS |      | ARROW    |      | Warning Lights |      | PCMS     |      |                          |
|                               |                                      | NO. IN   |      | TYPE III   |      | TYPE A         |      | BOARDS   |      | Type C         |      |          |      |                          |
|                               |                                      | SERVICE  | DAYS | SERVICE    | DAYS | SERVICE        | DAYS | SERVICE  | DAYS | SERVICE        | DAYS | SERVICE  | DAYS |                          |
| EASTBOUND                     |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| WEST OF PROJECT               | 7                                    | 5        | 35   | ---        | ---  | ---            | ---  | ---      | ---  | ---            | ---  | 1        | 7    |                          |
| 129+00 - 140+00               | 7                                    | 12       | 84   | 6          | 42   | 8              | 56   | ---      | ---  | ---            | ---  | ---      | ---  |                          |
| WESTBOUND                     |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| EAST OF PROJECT               | 7                                    | 5        | 35   | ---        | ---  | ---            | ---  | ---      | ---  | ---            | ---  | 1        | 7    |                          |
| 134+00 - 144                  | 7                                    | 11       | 77   | 6          | 42   | 8              | 56   | ---      | ---  | ---            | ---  | ---      | ---  |                          |
| CTH K NORTH                   |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| USH 151 MEDIAN NORTH OF CTH K | 7                                    | 5        | 35   | ---        | ---  | ---            | ---  | ---      | ---  | ---            | ---  | 1        | 7    |                          |
| AT USH 151                    | 7                                    | ---      | ---  | 1          | 7    | 2              | 14   | ---      | ---  | ---            | ---  | ---      | ---  | W/ROAD CLOSED AHEAD SIGN |
| SOUTH OF HUNTER AVE           | 7                                    | ---      | ---  | 1          | 7    | 2              | 14   | ---      | ---  | ---            | ---  | ---      | ---  | W/ROAD CLOSED AHEAD SIGN |
| CTH K NORTH OF WORK ZONE      | 7                                    | ---      | ---  | 5          | 35   | 6              | 42   | ---      | ---  | ---            | ---  | ---      | ---  |                          |
| CTH K SOUTH                   |                                      |          |      |            |      |                |      |          |      |                |      |          |      |                          |
| CTH K SOUTH OF WORKZONE       | 7                                    | ---      | ---  | 5          | 35   | 6              | 42   | ---      | ---  | ---            | ---  | ---      | ---  |                          |
| AT EASTWIND LN                | 7                                    | ---      | ---  | 1          | 7    | 2              | 14   | ---      | ---  | ---            | ---  | ---      | ---  | W/ROAD CLOSED AHEAD SIGN |
| AT BELLEVUE BLVD              | 7                                    | ---      | ---  | 1          | 7    | 2              | 14   | ---      | ---  | ---            | ---  | ---      | ---  | W/ROAD CLOSED AHEAD SIGN |
| CTH K AT RIENZI RD            | 7                                    | 5        | 35   | ---        | ---  | ---            | ---  | ---      | ---  | ---            | ---  | 1        | 7    | MOVE TO CTH T IF OPEN    |
| SUBTOTALS                     |                                      | 301      |      | 182        |      | 252            |      | 0        |      | 0              |      | 28       |      |                          |
| PROJECT TOTALS                |                                      | 4695     |      | 934        |      | 1004           |      | 94       |      | 799            |      | 42       |      |                          |

| TRAFFIC CONTROL SIGNS FIXED MESSAGE |                                                      |           |       | 643.1000      |
|-------------------------------------|------------------------------------------------------|-----------|-------|---------------|
|                                     |                                                      |           |       | TRAFFIC       |
|                                     |                                                      |           |       | CONTROL SIGNS |
|                                     |                                                      |           |       | FIXED MESSAGE |
| LOCATION                            | SIGN MESSAGE                                         |           |       | S.F.          |
|                                     |                                                      |           |       | REMARKS       |
| STH 23 EB, BEFORE USH 151 RAMPS     | HWY K NORTH<br>CLOSED AT HWY 23<br>USE HWY 151 NORTH | 96" X 36" | 24.00 |               |
| STH 23 WB                           | HWY K SOUTH<br>CLOSED AT HWY 23<br>USE HWY 151 SOUTH | 96" X 36" | 24.00 |               |
| USH 151 SB, BEFORE CTH K            | HWY K CLOSED<br>AT HWY 23<br>USE HWY 151             | 72" X 36" | 18.00 |               |
| CTH K NB, BEFORE RIENZI RD          | HWY K CLOSED<br>AT HWY 23<br>USE HWY 151             | 72" X 36" | 18.00 |               |
| PROJECT TOTAL                       |                                                      |           | 84.00 |               |

| PAVEMENT MARKING   |          |           |          |          |          |                  |     |                 |  |
|--------------------|----------|-----------|----------|----------|----------|------------------|-----|-----------------|--|
| 1440-35-71         |          |           |          |          |          |                  |     |                 |  |
|                    |          | 646.0106  | 646.0126 | 647.0456 | 647.0606 | 649.0400         |     | 649.0506        |  |
|                    |          | EPOXY     | EPOXY    | EPOXY    | EPOXY    | TEMPORARY        |     | TEMPORARY       |  |
|                    |          | 4-INCH    | 8-INCH   | CURB     | ISLAND   | REMOVABLE TAPE   |     | MASKOUT TAPE    |  |
|                    |          | YELLOW    | WHITE    |          | NOSE     | 4-INCH<br>YELLOW |     | 6-INCH<br>BLACK |  |
| STATION TO STATION |          | LOCATION  | LF       | LF       | LF       | EACH             | LF  | LF              |  |
| 123+50             | - 126+50 | STH 23 EB | ---      | ---      | ---      | ---              | 230 | 75              |  |
| 129+27             | - 136+24 | STH 23 EB | 864      | 532      | ---      | ---              | --- | ---             |  |
| 136+94             | - 137+56 | STH 23 EB | 57       | ---      | ---      | ---              | --- | ---             |  |
| 129+38             | - 130+59 | STH 23 WB | 121      | 410      | ---      | ---              | --- | ---             |  |
| 135+65             | - 136+24 | STH 23 WB | 58       | ---      | ---      | ---              | --- | ---             |  |
| 136+94             | - 142+18 | STH 23 WB | 648      | ---      | ---      | ---              | --- | ---             |  |
| CTH K NORTH        |          | ---       | 62       | ---      | 10       | 1                | --- | ---             |  |
| CTH K SOUTH        |          | ---       | 58       | ---      | 10       | 1                | --- | ---             |  |
| PROJECT TOTALS     |          |           | 1868     | 942      | 20       | 2                | 230 | 75              |  |

## CONSTRUCTION STAKING

|                    |          | 1440-35-71 |          |                 |                      |         |
|--------------------|----------|------------|----------|-----------------|----------------------|---------|
|                    |          | 650.4500   | 650.5000 | 650.5500        | 650.9910             |         |
|                    |          | SUBGRADE   | BASE     | CURB AND GUTTER | SUPPLEMENTAL CONTROL |         |
| STATION TO STATION | LOCATION | LF         | LF       | LF              | LS                   | REMARKS |
| 129+27 - 142+18    | STH 23   | 1291       | 1291     | 2372            | 1                    |         |
| PROJECT TOTALS     |          | 1291       | 1291     | 2372            | 1                    |         |

## SAWING CONCRETE

| STATION TO    |   | STATION | LOCATION    | LF   | REMARKS           |
|---------------|---|---------|-------------|------|-------------------|
| 129+38        | - | 130+60  | STH 23 WB   | 126  | EB REFERENCE LINE |
| 135+66        | - | 142+18  | STH 23 WB   | 658  | EB REFERENCE LINE |
| 129+28        | - | 137+51  | STH 23 EB   | 829  |                   |
| 134+44        | - | 134+59  | STH EB      | 40   |                   |
| 136+43        | - | 136+65  | CTH K SOUTH | 118  | EB REFERENCE LINE |
| 136+56        | - | 136+78  | CTH K NORTH | 112  | EB REFERENCE LINE |
| 136+85        | - | 137+00  | STH 23 EB   | 40   |                   |
| PROJECT TOTAL |   |         |             | 1923 |                   |

|                        |             |                     |                          |        |          |
|------------------------|-------------|---------------------|--------------------------|--------|----------|
| PROJECT NO: 1440-35-71 | HWY: STH 23 | COUNTY: FOND DU LAC | MISCELLANEOUS QUANTITIES | SHEET: | <b>E</b> |
|------------------------|-------------|---------------------|--------------------------|--------|----------|

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

| SIGN NO. | LOCATION                    | SIGN CODE | W X H     | 637.2210<br>SIGNS<br>TYPE II<br>REFLECTIVE<br>TYPE H<br>S.F. | 637.2230<br>SIGNS<br>TYPE II<br>REFLECTIVE<br>TYPE F<br>S.F. | 634.0612<br>POSTS<br>WOOD<br>4x6x12<br>EACH | 634.0614<br>POSTS<br>WOOD<br>4x6x14<br>EACH | 634.0616<br>POSTS<br>WOOD<br>4x6x16<br>EACH | 634.0618<br>POSTS<br>WOOD<br>4x6x18<br>EACH | 638.2602<br>REMOVING<br>SIGNS<br>TYPE II<br>EACH | 638.3000<br>REMOVING<br>SMALL<br>SIGN<br>SUPPORTS<br>EACH | REMARKS                                                    |
|----------|-----------------------------|-----------|-----------|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|
| 1        | STH 23 WEST OF CTH K        | R3-4      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 2        | "                           | R2-1      | 36" X 48" | 12.00                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | SPEED LIMIT 45                                             |
| 3        | "                           | R2-1      | 36" X 48" | 12.00                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | SPEED LIMIT 45                                             |
| 4        | "                           | R2-1      | 36" X 48" | 12.00                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | SPEED LIMIT 45                                             |
| 5        | "                           | R2-1      | 36" X 48" | 12.00                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | SPEED LIMIT 45                                             |
| 6        | "                           | R3-4      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 7        | "                           | J1-1      | 36" X 57" | 14.25                                                        | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       | JCT CTH K                                                  |
| 8        | "                           | J1-1      | 36" X 57" | 14.25                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | JCT CTH K                                                  |
| 9        | "                           | D1-3      | 84" X 36" | 21.00                                                        | ---                                                          | ---                                         | ---                                         | 2                                           | ---                                         | ---                                              | ---                                                       | SEE DETAIL SHEET                                           |
| 10       | "                           | J13-1     | 36" X 66" | 16.50                                                        | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       | CTH K                                                      |
| 11       | "                           | R5-1A     | 42" X 30" | 8.75                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 12       | "                           | J4-1      | 36" X 54" | 13.50                                                        | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       | WEST STH 23                                                |
| 13       | EB STH 23 MEDIAN            | W12-1D    | 24" X 24" | ---                                                          | 4.00                                                         | 1                                           | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | 2' MOUNTING HEIGHT                                         |
| 14       | WB STH 23 MEDIAN            | R6-1L     | 54" X 18" | 6.75                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       | MOUNT ABOVE SIGN 15                                        |
| 15       | "                           | R1-2      | 48" X 42" | 7.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 16       | "                           | R6-1R     | 54" X 18" | 6.75                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT TO BACK OF SIGN 14                                   |
| 17       | STH 23 WEST OF CTH K        | J13-1     | 36" X 66" | 16.50                                                        | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       | CTH K                                                      |
| 18       | "                           | R5-1      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT TO BACK OF SIGN 17                                   |
| 19       | STH 23/CTH K MEDIAN         | R6-1L     | 54" X 18" | 6.75                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | MOUNT ABOVE SIGN 20                                        |
| 20       | "                           | R1-2      | 48" X 42" | 7.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 20A      | "                           | R5-1      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                            |
| 21       | "                           | R5-1      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT TO BACK OF SIGN 20A                                  |
| 22       | CTH K NORTH OF STH 23       | R5-1      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                            |
| 23       | "                           | J3-1      | 24" X 57" | 9.50                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | WEST 23 RIGHT, MOUNT TO BACK OF SIGN 22                    |
| 24       | "                           | R6-1R     | 36" X 12" | 3.00                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                            |
| 25       | "                           | R1-1      | 36" X 36" | 7.46                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 24                                        |
| 26       | NORTH CTH K SPLITTER ISLAND | R6-1R     | 36" X 12" | 3.00                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                            |
| 27       | "                           | R1-1      | 36" X 36" | 7.46                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 26                                        |
| 28       | "                           | R4-7      | 24" X 30" | 5.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 28A      | CTH K NORTH OF STH 23       | R3-53R    | 24" X 30" | 5.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 29       | NORTH CTH K SPLITTER ISLAND | R3-2      | 24" X 24" | 4.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 27                                        |
| 30       | "                           | R4-7      | 24" X 30" | 5.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 31       | SOUTH CTH K SPLITTER ISLAND | R4-7      | 24" X 30" | 5.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 32       | "                           | R3-2      | 24" X 24" | 4.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 35                                        |
| 33       | "                           | R4-7      | 24" X 30" | 5.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 33A      | CTH K SOUTH OF STH 23       | R3-53R    | 24" X 30" | 5.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 34       | SOUTH CTH K SPLITTER ISLAND | R6-1R     | 36" X 12" | 3.00                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                            |
| 35       | "                           | R1-1      | 36" X 36" | 7.46                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 34                                        |
| 36       | CTH K SOUTH OF STH 23       | R6-1R     | 36" X 12" | 3.00                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                            |
| 37       | "                           | R1-1      | 36" X 36" | 7.46                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 36                                        |
| 38       | "                           | J3-1      | 24" X 57" | 9.50                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | EAST 23 RIGHT                                              |
| 39       | "                           | R5-1      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT TO BACK OF SIGN 38                                   |
| 40       | EB STH 23 MEDIAN            | R6-1R     | 54" X 18" | 6.75                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT TO BACK OF SIGN 40A                                  |
| 40A      | "                           | R6-1L     | 54" X 18" | 6.75                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       |                                                            |
| 40B      | "                           | R1-2      | 48" X 42" | 7.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 40A                                       |
| 41       | STH 23 EAST OF CTH K        | R5-1      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       |                                                            |
| 42       | "                           | J13-1     | 36" X 66" | 16.50                                                        | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | CTH K, MOUNT TO BACK OF SIGN 41                            |
| 43       | WB STH 23 MEDIAN            | R6-1L     | 54" X 18" | 6.75                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       |                                                            |
| 44       | "                           | R1-2      | 48" X 42" | 7.00                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT BELOW SIGN 43                                        |
| 45       | "                           | W12-1D    | 24" X 24" | ---                                                          | 4.00                                                         | 1                                           | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | 2' MOUNTING HEIGHT                                         |
| 46       | STH 23 EAST OF CTH K        | R5-1A     | 42" X 30" | 8.75                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                            |
| 47       | "                           | D1-3      | 84" X 36" | 21.00                                                        | ---                                                          | ---                                         | ---                                         | 2                                           | ---                                         | ---                                              | ---                                                       | TAYCHEDAH CORRECTIONAL INSTITUTION RIGHT, SEE DETAIL SHEET |

PAGE SUBTOTALS

438.34

8.00

2

10

17

8

0

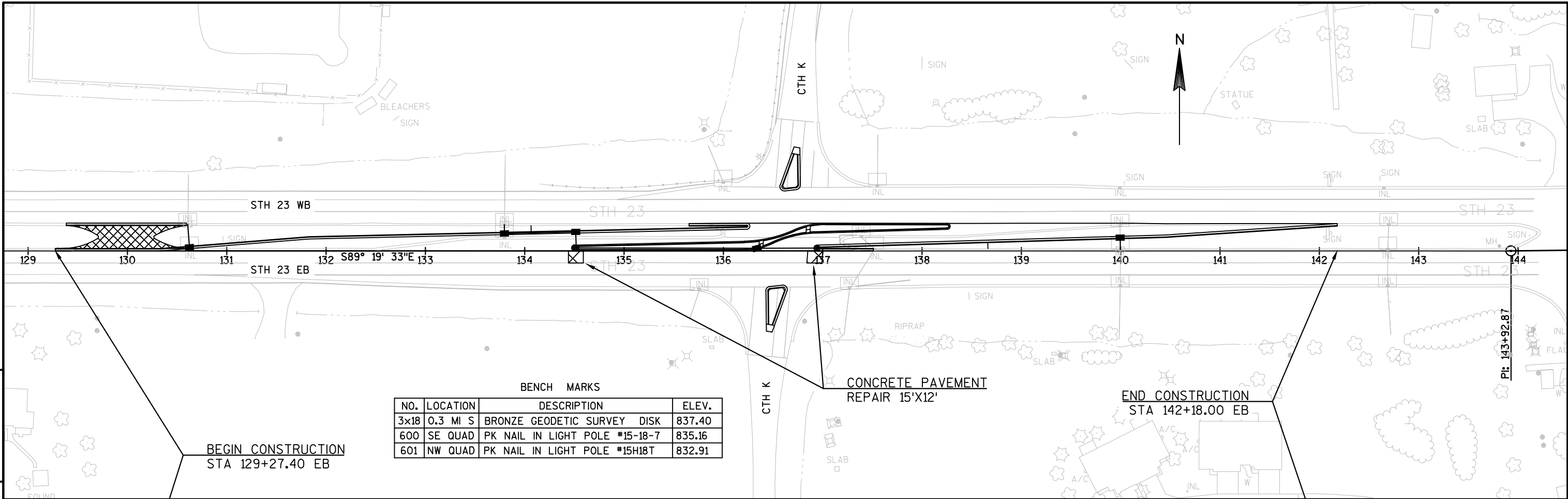
0

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

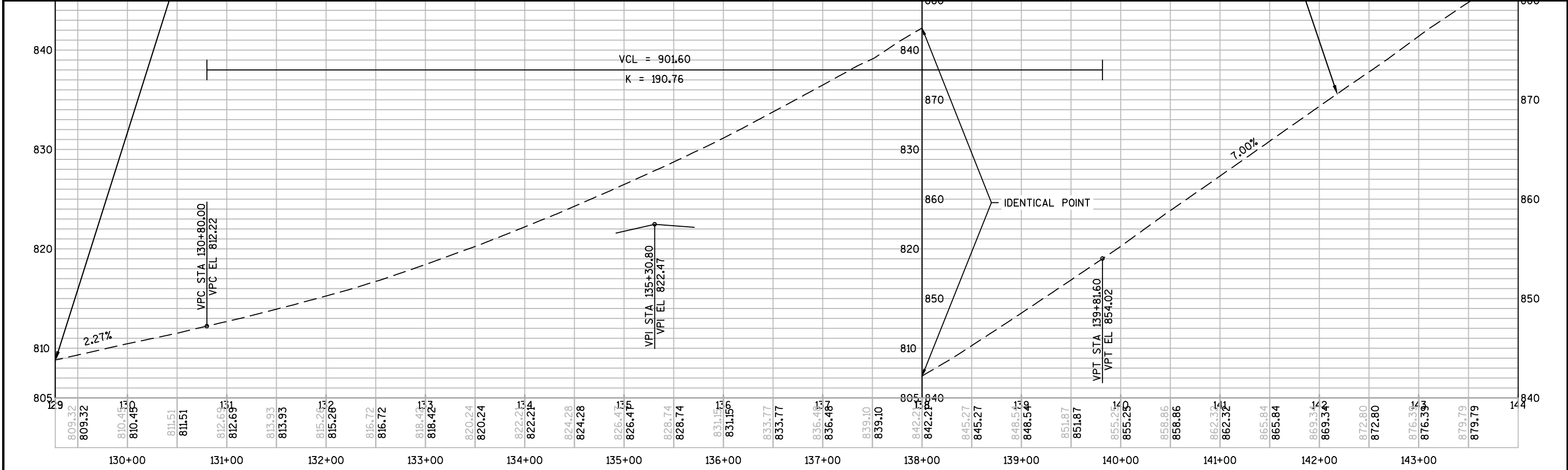
| SIGN NO. | LOCATION              | SIGN CODE | W X H     | 637.2210<br>SIGNS<br>TYPE II<br>REFLECTIVE<br>TYPE H<br>S.F. | 637.2230<br>SIGNS<br>TYPE II<br>REFLECTIVE<br>TYPE F<br>S.F. | 634.0612<br>POSTS<br>WOOD<br>4x6x12<br>EACH | 634.0614<br>POSTS<br>WOOD<br>4x6x14<br>EACH | 634.0616<br>POSTS<br>WOOD<br>4x6x16<br>EACH | 634.0618<br>POSTS<br>WOOD<br>4x6x18<br>EACH | 638.2602<br>REMOVING<br>SIGNS<br>TYPE II<br>EACH | 638.3000<br>REMOVING<br>SMALL<br>SIGN<br>SUPPORTS<br>EACH | REMARKS                                        |
|----------|-----------------------|-----------|-----------|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| 48       | STH 23 EAST OF CTH K  | J1-1      | 36" X 57" | 14.25                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | JCT K                                          |
| 49       | "                     | R6-2L     | 24" X 30" | 5.00                                                         | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                |
| 50       | "                     | D2-3      | 84" X 36" | 21.00                                                        | ---                                                          | ---                                         | ---                                         | 2                                           | ---                                         | ---                                              | ---                                                       | SEE DETAIL SHEET                               |
| 51       | "                     | J4-1      | 36" X 54" | 13.50                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | EAST 23                                        |
| 52       | "                     | R5-1A     | 42" X 30" | 8.75                                                         | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | MOUNT TO BACK OF SIGN 52                       |
| 53       | "                     | J13-1     | 36" X 66" | 16.50                                                        | ---                                                          | ---                                         | ---                                         | ---                                         | 1                                           | ---                                              | ---                                                       | CTH K                                          |
| 54       | "                     | J1-1      | 36" X 57" | 14.25                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       | JCT K                                          |
| 55       | "                     | R3-4      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                |
| 56       | "                     | R5-1      | 36" X 36" | 9.00                                                         | ---                                                          | ---                                         | 1                                           | ---                                         | ---                                         | ---                                              | ---                                                       |                                                |
| 57       | "                     | R4-7      | 36" X 48" | 12.00                                                        | ---                                                          | ---                                         | ---                                         | 1                                           | ---                                         | ---                                              | ---                                                       |                                                |
| 58       | VACANT                | ---       | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       |                                                |
| 59       | VACANT                | ---       | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       |                                                |
| 60       | STH 23 WEST OF CTH K  | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 61       | "                     | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 62       | "                     | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 63       | "                     | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 64       | "                     | J1-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 65       | "                     | I55-53    | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         | TAYCHEDAH CORRECTIONAL INSTITUTION             |
| 66       | "                     | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 67       | "                     | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 68       | "                     | R5-1A     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | INCLUDED IN SIGN 67 REMOVAL                    |
| 69       | "                     | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 70       | "                     | R2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 71       | "                     | J13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 72       | "                     | R4-7      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 73       | "                     | J13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 74       | "                     | R5-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | INCLUDED IN SIGN 73 REMOVAL                    |
| 75       | "                     | R6-2L     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 76       | CTH K NORTH OF STH 23 | R1-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 77       | "                     | R6-3      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | INCLUDED IN SIGN 76 REMOVAL                    |
| 78       | "                     | J13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 79       | CTH K SOUTH OF STH 23 | R1-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 80       | "                     | R6-3      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | INCLUDED IN SIGN 79 REMOVAL                    |
| 81       | "                     | J13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 82       | STH 23 EAST OF CTH K  | R6-2L     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 83       | "                     | R4-7      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 84       | "                     | J13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 85       | "                     | R5-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 86       | "                     | J13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | ---                                              | ---                                                       | INCLUDED IN SIGN 85 REMOVAL                    |
| 87       | "                     | R5-1A     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 88       | "                     | D2-3      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 2                                                         |                                                |
| 89       | "                     | R5-1A     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 90       | "                     | W2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | ---                                                       | REMOVE FROM POLE, POLE TO BE REMOVED BY REGION |
| 91       | "                     | W13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | ---                                                       | "                                              |
| 92       | "                     | W2-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | ---                                                       | "                                              |
| 93       | "                     | W13-1     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | ---                                                       | "                                              |
| 94       | "                     | I55-53    | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         | TAYCHEDAH CORRECTIONAL INSTITUTION             |
| 95       | "                     | R6-2L     | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 96       | "                     | R3-4      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 97       | "                     | R5-1      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |
| 98       | "                     | R4-7      | ---       | ---                                                          | ---                                                          | ---                                         | ---                                         | ---                                         | ---                                         | 1                                                | 1                                                         |                                                |

PAGE SUBTOTALS 123.25 0.00 0 2 7 1 34 31

PROJECT TOTALS 561.59 8.00 2 12 24 9 34 31

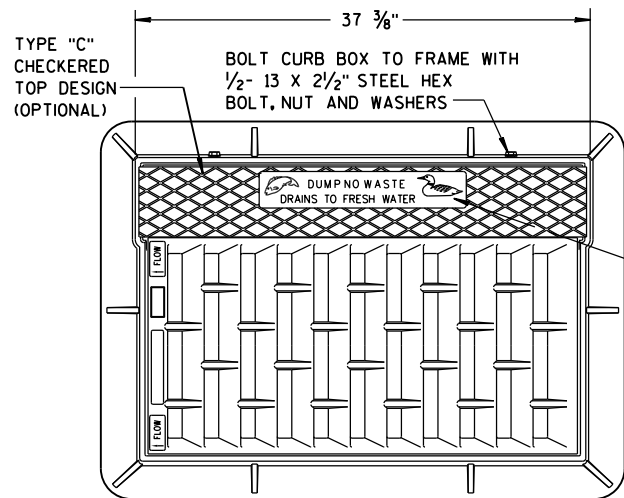


| BENCH MARKS |          |                                |        |  |
|-------------|----------|--------------------------------|--------|--|
| NO.         | LOCATION | DESCRIPTION                    | ELEV.  |  |
| 3x18        | 0.3 MI S | BRONZE GEODETIC SURVEY DISK    | 837.40 |  |
| 600         | SE QUAD  | PK NAIL IN LIGHT POLE *15-18-7 | 835.16 |  |
| 601         | NW QUAD  | PK NAIL IN LIGHT POLE *15H18T  | 832.91 |  |



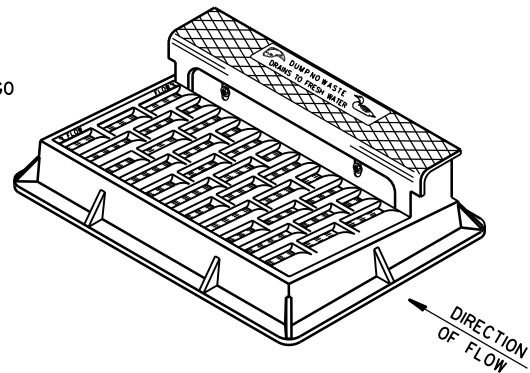
Standard Detail Drawing List

|           |                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------|
| 08A05-19A | INLET COVERS TYPE A, H, A-S, H-S & Z                                                               |
| 08B10-01  | MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT                                                         |
| 08C06-01  | INLETS 3-FT AND 4-FT DIAMETER                                                                      |
| 08C07-01  | INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT                                                       |
| 08D01-18  | CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES                                                   |
| 08E10-02  | INLET PROTECTION TYPE A, B, C AND D                                                                |
| 08F04-07  | JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL                                            |
| 11B02-02  | CONCRETE MEDIAN NOSE                                                                               |
| 13C09-13A | CONCRETE PAVEMENT REPAIR AND REPLACEMENT                                                           |
| 13C09-13B | CONCRETE PAVEMENT REPAIR AND REPLACEMENT                                                           |
| 13C09-13C | CONCRETE PAVEMENT REPAIR AND REPLACEMENT                                                           |
| 15C03-03  | BARRICADES AND SIGNS FOR SIDEROAD CLOSURES                                                         |
| 15C04-03  | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC |
| 15C08-16A | PAVEMENT MARKING (MAINLINE)                                                                        |
| 15C08-16B | PAVEMENT MARKING (INTERSECTIONS)                                                                   |
| 15C08-16E | PAVEMENT MARKING (LEFT TURN LANE)                                                                  |
| 15C08-16F | PAVEMENT MARKING (ISLANDS)                                                                         |
| 15D12-05A | TRAFFIC CONTROL, LANE CLOSURE                                                                      |

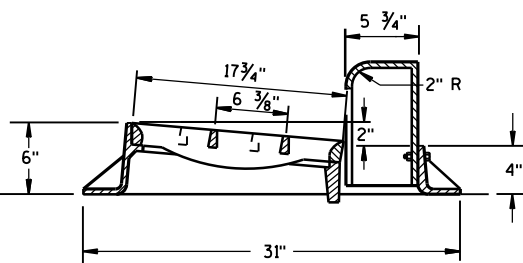
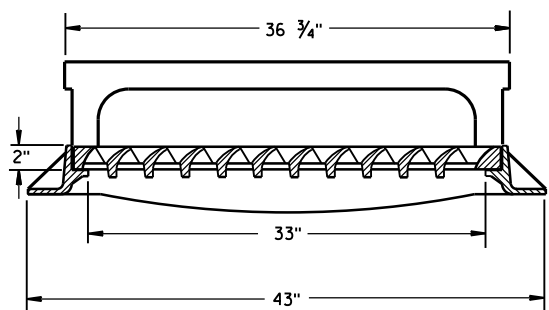
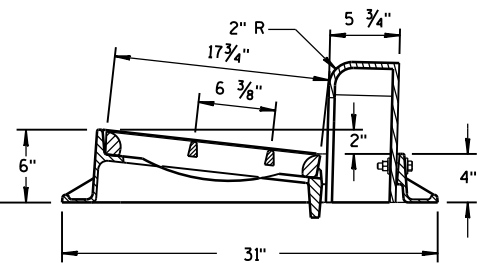
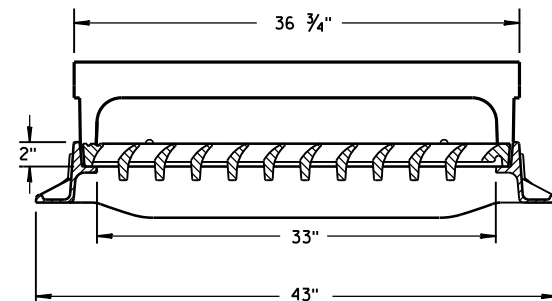
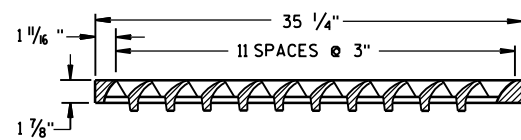


SEE LOGO  
DETAIL

**NOTE:**  
**GRATE IS REVERSIBLE.**

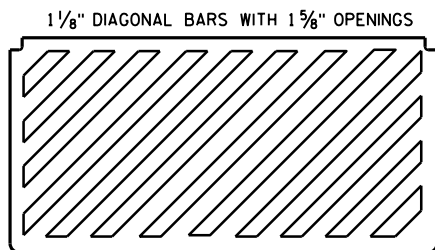


**NOTE:** CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



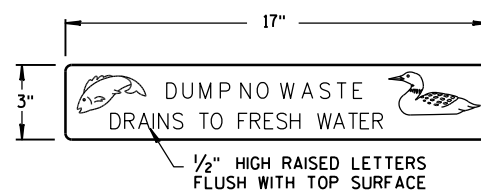
**TYPE "H"**

**NOTE: EITHER CASTING IS ACCEPTABLE**

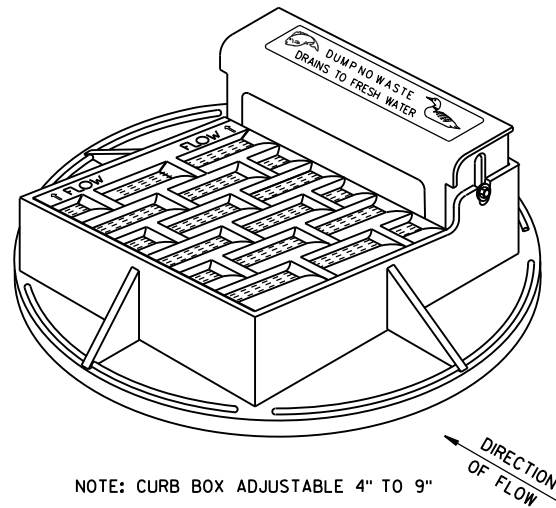


**SPECIAL GRATE FOR  
TYPE "H" COVER**

(MEASURES 35 1/4" X 17 3/4" X 2")  
(NOTED AS TYPE H-S ON DRAINAGE TABLE)

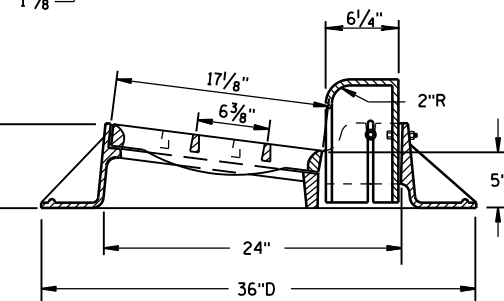
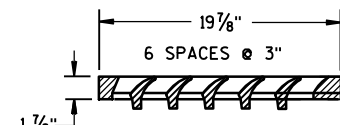
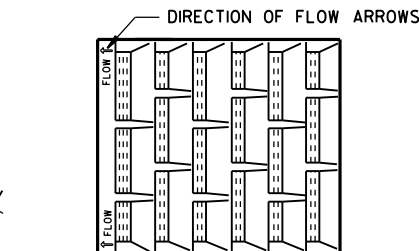
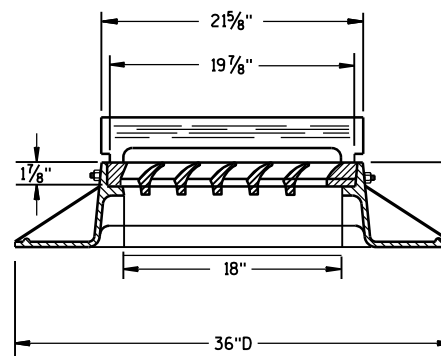


**LOGO DETAIL**

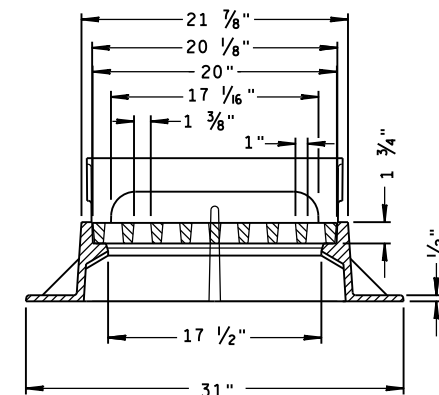
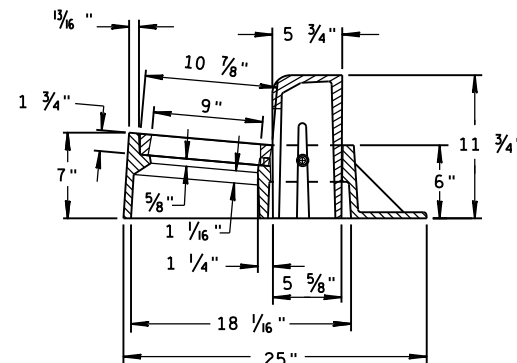


**NOTE:** CURB BOX ADJUSTABLE 4" TO 9"

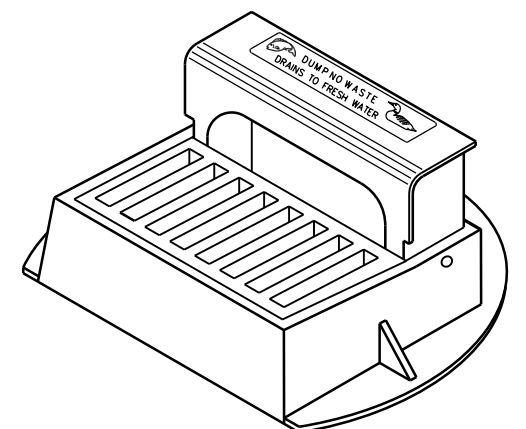
**NOTE:**  
**GRATE IS REVERSIBLE.**



**TYPE "A"**



**TYPE "Z"**



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

**STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION**

**APPROVED**  
11-27-13  
DATE  
FHWA

/S/ Jerry H. Zogg  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

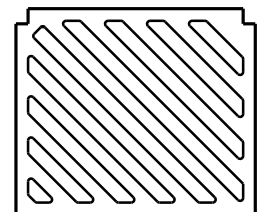
## GENERAL NOTES

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.

1" DIAGONAL BARS  
WITH 1 1/2" OPENINGS



**SPECIAL GRATE FOR  
TYPE "A" COVER**

(MEASURES 19 3/4" X 17" X 1 1/8")  
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



PRECAST REINFORCED  
CONCRETE FLAT SLAB TOP

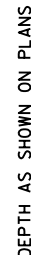


# PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

## MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT



JOINTS TO BE SEALED WITH  
A BUTYL RUBBER SEAL PER  
SEALANT MANUFACTURERS  
RECOMMENDATIONS TO  
CONFORMING TO ASTM C 990  
(TYP)



**SECTION B-B**

CONCRETE BLOCK WITH  
CAST-IN-PLACE OR  
PRECAST REINFORCED  
CONCRETE BASE



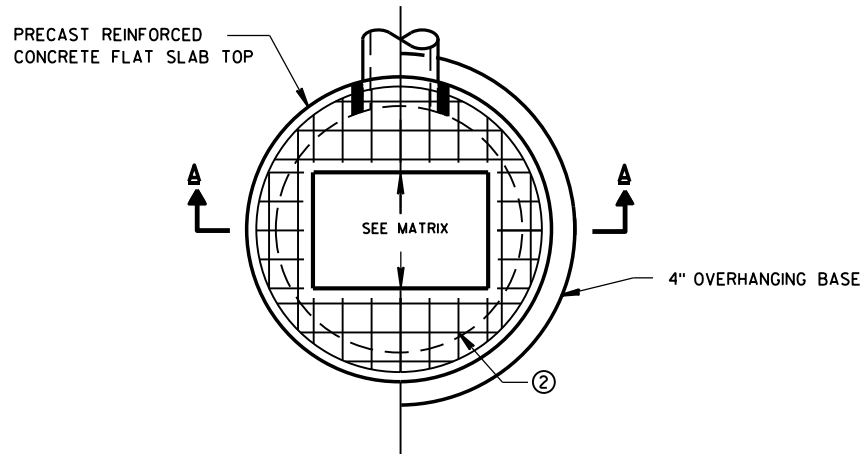
### DETAIL "B"



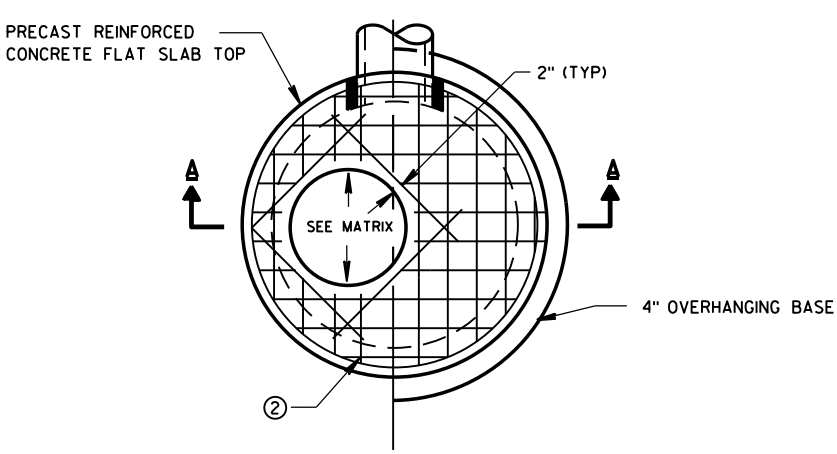
**DETAIL "A"**



/S/ Jerry H. Zogg  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

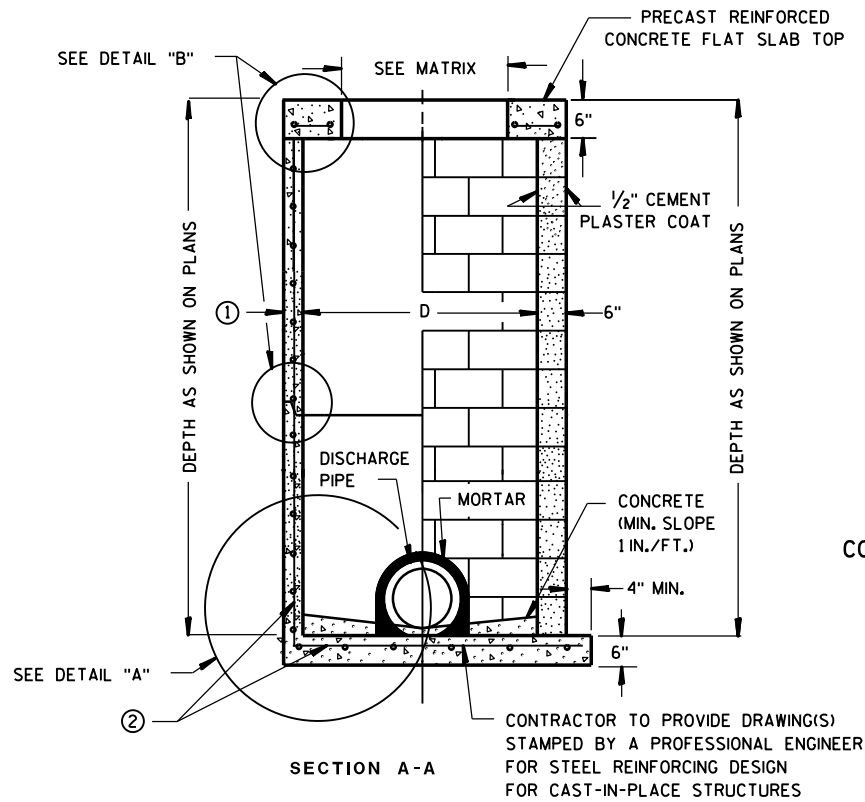


PLAN VIEW RECTANGULAR OPENING



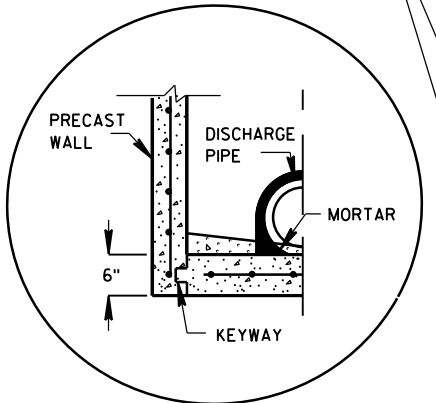
PLAN VIEW CIRCULAR OPENING

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

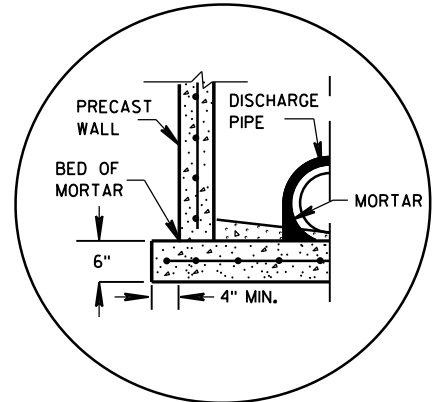


**PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE**      **CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②**

CIRCULAR INLETS W/ FLAT TOP

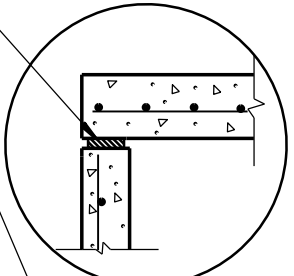


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

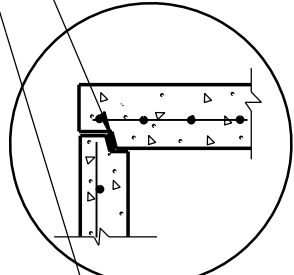


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

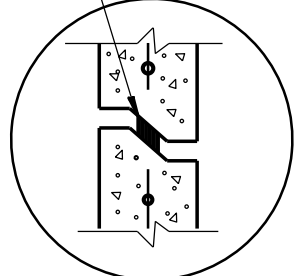
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

INLETS 3-FT AND 4-FT DIAMETER

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

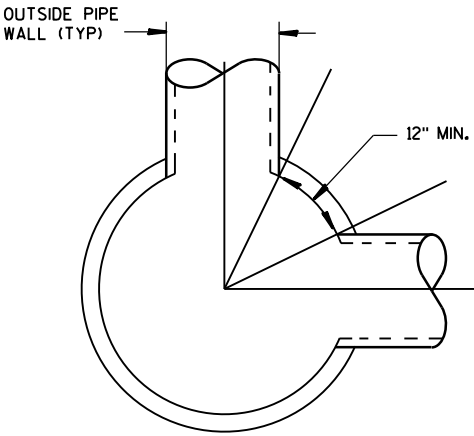
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- ① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.
- ② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

|            | INLET COVER TYPE  | ALL A'S | ALL B'S | BW | C | F | ALL H'S | S | T | V | WM | Z |
|------------|-------------------|---------|---------|----|---|---|---------|---|---|---|----|---|
| INLET SIZE | OPENING SIZE (FT) |         |         |    |   |   |         |   |   |   |    |   |
| 3-FT       | 2 DIA.            |         |         |    | X |   |         |   |   |   |    | X |
|            | 2X2               | X       | X       |    |   |   |         | X |   | X |    |   |
| 4-FT       | 2 DIA.            |         |         |    | X |   |         |   |   |   |    | X |
|            | 2X2               | X       | X       |    |   |   |         | X | X | X | X  |   |
|            | 2X2.5             |         |         | X  |   |   |         |   |   |   |    |   |
|            | 2X3               |         |         |    |   |   | X       |   |   |   |    |   |
|            | 2.5X3             |         |         |    |   | X |         |   |   |   |    |   |



DETAIL "C"

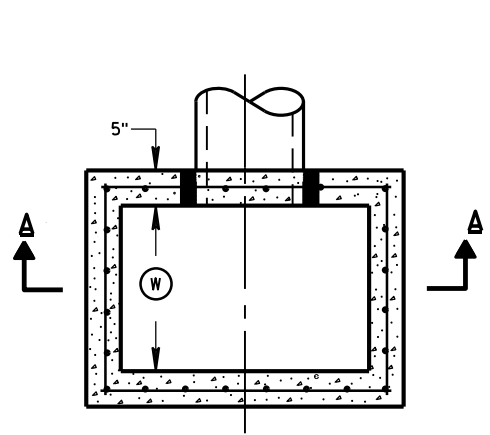
PIPE MATRIX

| INLET SIZE | MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES |                     |
|------------|--------------------------------------------|---------------------|
|            | 180° SEPARATION (IN)                       | 90° SEPARATION (IN) |
| 3-FT       | 15                                         | 12                  |
| 4-FT       | 24                                         | 18                  |

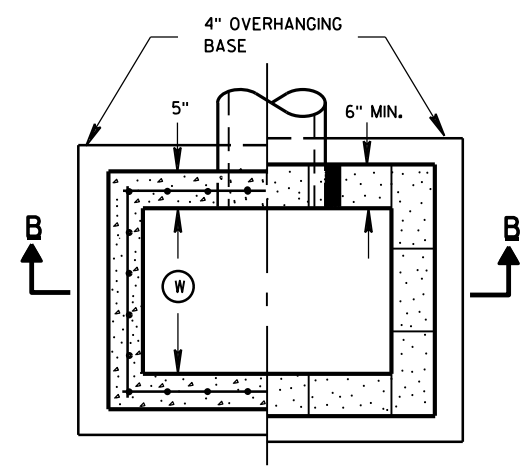
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

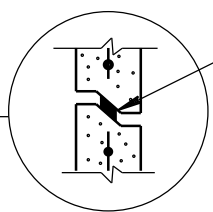
APPROVED  
6/5/2012 DATE /S/ Jerry H. Zogg  
ROADWAY STANDARDS DEVELOPMENT ENGINEER  
FHWA



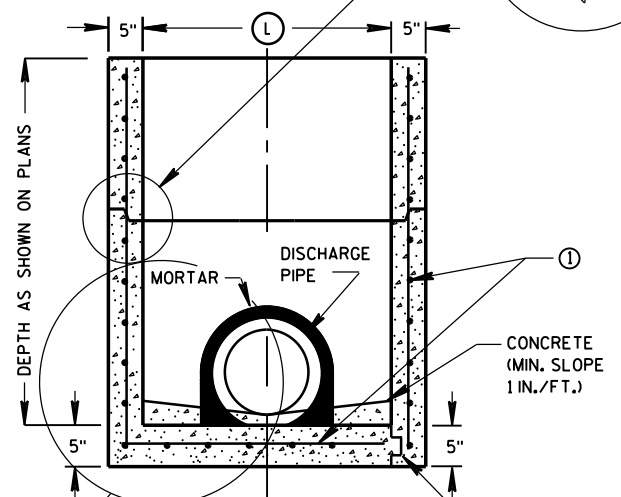
PLAN VIEW



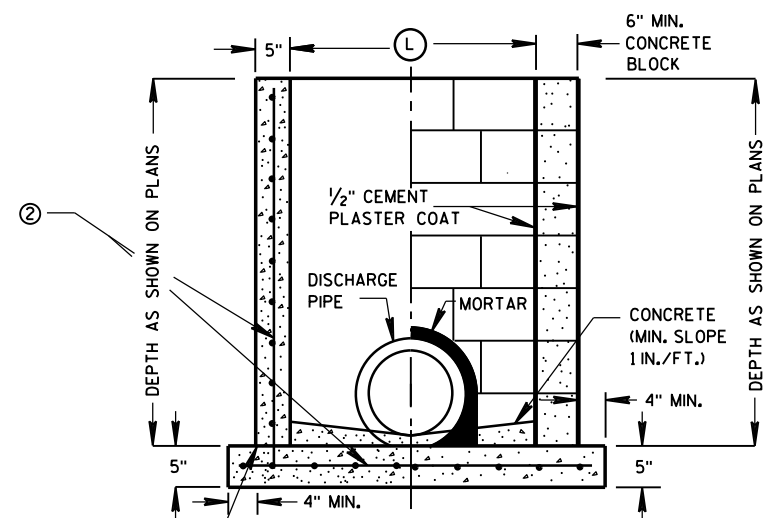
PLAN VIEW



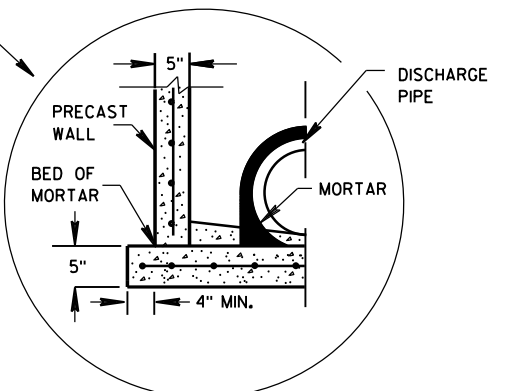
RISER JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

### 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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

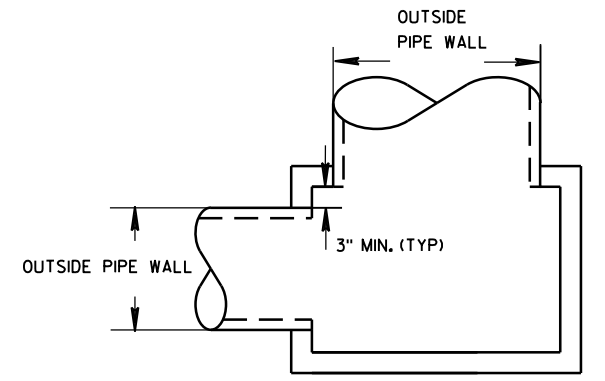
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

### INLET COVER MATRIX

| INLET SIZE |              | INLET COVER TYPE | ALL A'S | ALL B'S | BW | F | ALL H'S | S | T | V | WM |
|------------|--------------|------------------|---------|---------|----|---|---------|---|---|---|----|
|            | WIDTH ① (FT) | LENGTH ② (FT)    |         |         |    |   |         |   |   |   |    |
| 2X2-FT     | 2            | 2                | X       | X       |    |   |         | X |   | X |    |
| 2X2.5-FT   | 2            | 2.5              |         |         | X  |   |         | X | X | X | X  |
| 2X3-FT     | 2            | 3                |         |         |    |   | X       |   |   |   |    |
| 2.5X3-FT   | 2.5          | 3                |         |         |    | X |         |   |   |   |    |

### PIPE MATRIX

| INLET SIZE | MAXIMUM INSIDE PIPE DIAMETER |             |
|------------|------------------------------|-------------|
|            | WIDTH (IN)                   | LENGTH (IN) |
| 2X2-FT     | 12                           | 12          |
| 2X2.5-FT   | 12                           | 18          |
| 2X3-FT     | 12                           | 24          |
| 2.5X3-FT   | 18                           | 24          |



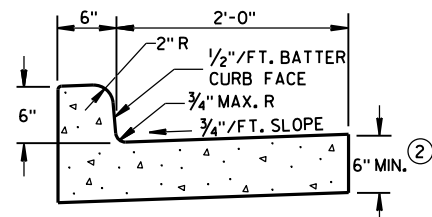
DETAIL "A"

### INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

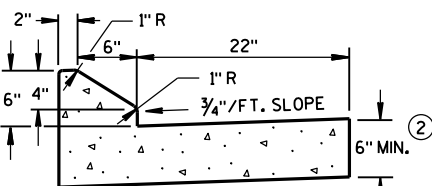
INLETS 2X2-FT, 2X2.5-FT,  
2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

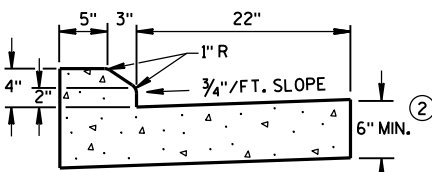
APPROVED  
6/5/2012 /S/ Jerry H. Zogg  
DATE ROADWAY STANDARDS DEVELOPMENT  
FHWA ENGINEER



TYPES A & D ①

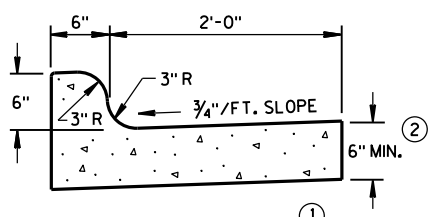


6" SLOPED CURB TYPES G & J ①



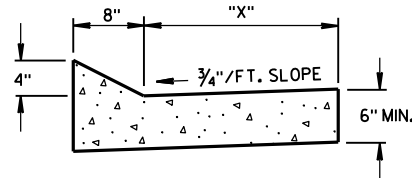
4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"



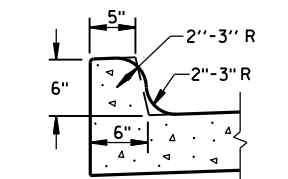
TYPES K & L ①

CONCRETE CURB & GUTTER 30"

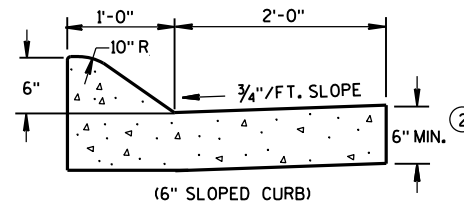


TYPES TBT & TBT ①  
CONCRETE CURB & GUTTER

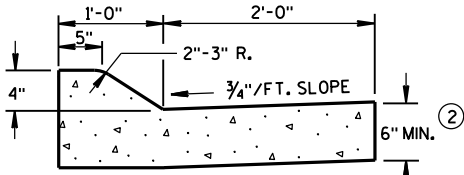
| TBT & TBT | "X" |
|-----------|-----|
| 30"       | 22" |
| 36"       | 28" |



OPTIONAL CURB SHAPE  
FOR TYPES K & L ①

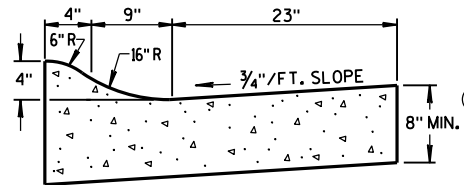


(6" SLOPED CURB)



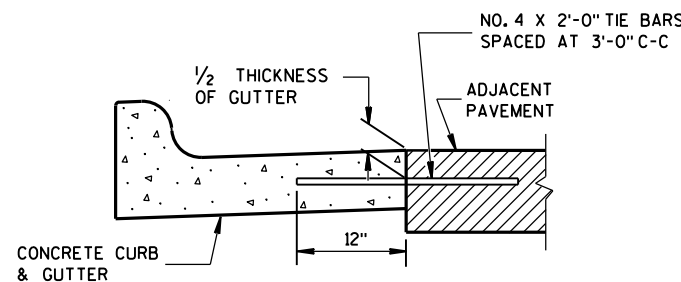
(4" SLOPED CURB)

TYPES A & D ①

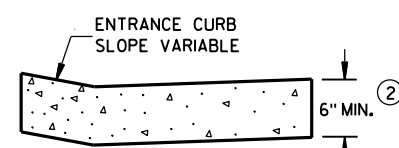


4" SLOPED CURB TYPES R & T ① ④

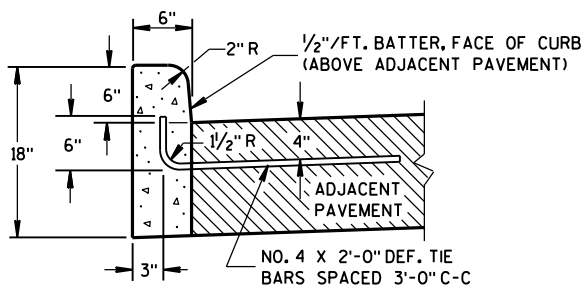
CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION ①

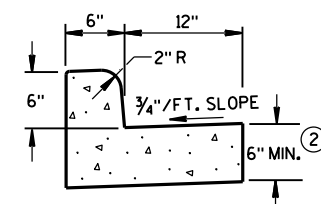


DRIVEWAY ENTRANCE CURB  
(WHEN DIRECTED BY THE ENGINEER)

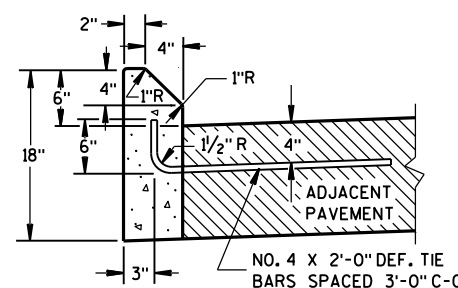


TYPES A & D ①

CONCRETE CURB



TYPES A & D  
CONCRETE CURB & GUTTER 18"



TYPES G & J ①

## GENERAL NOTES

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

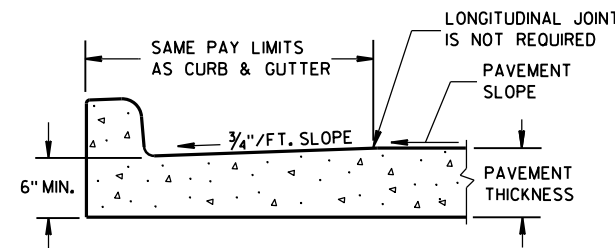
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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.

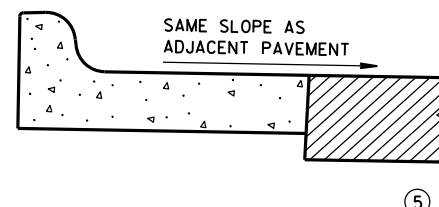
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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

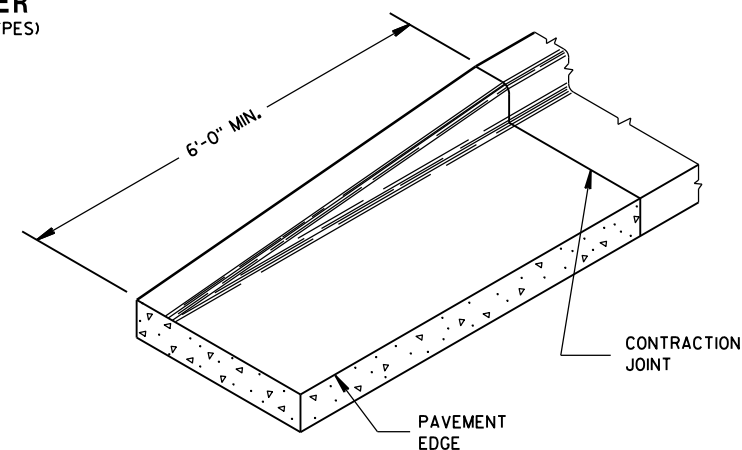
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED 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.



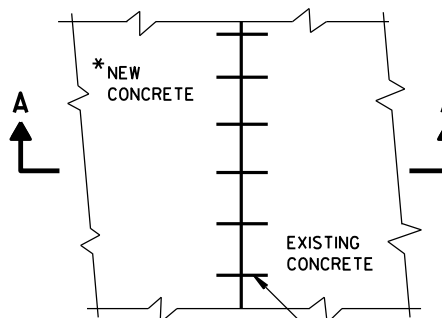
PARTIAL SECTION OF PAVEMENT  
WITH INTEGRAL CURB & GUTTER



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



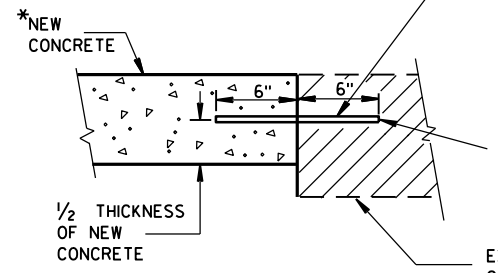
END SECTION CURB & GUTTER



PLAN VIEW

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

NO. 6 TIE BARS SPACED 2'-6" C-C,  
INSTALLED PERPENDICULAR  
TO THE LONGITUDINAL JOINT.



SECTION A-A  
TIE BARS DRILLED  
INTO EXISTING PAVEMENT

MAXIMUM DRILL HOLE  
SIZE IS 1/8" GREATER  
THAN TIE BAR DIAMETER

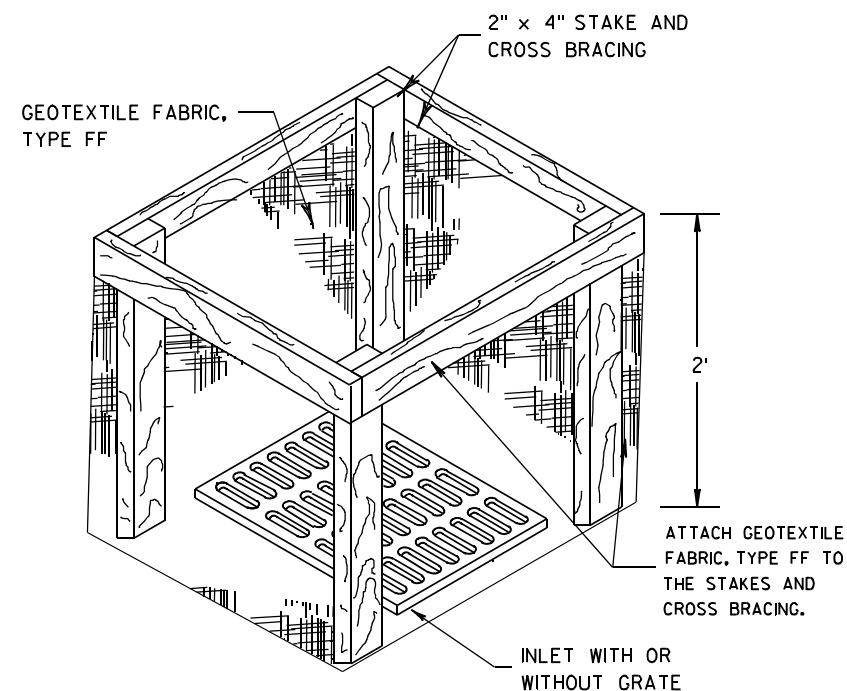
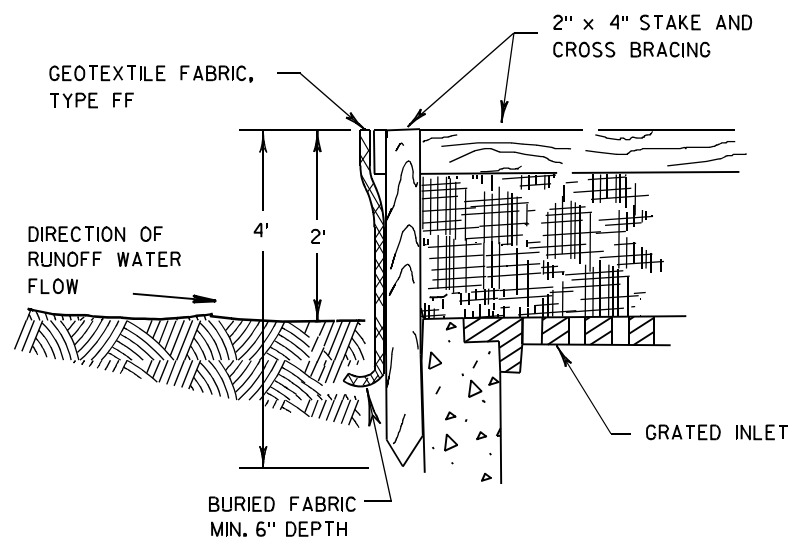
EXISTING  
CONCRETE

CONCRETE CURB, CONCRETE  
CURB & GUTTER AND TIES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
June, 2015  
DATE  
FHWA

/S/ Jerry H. Zogg  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER



**INLET PROTECTION, TYPE A**

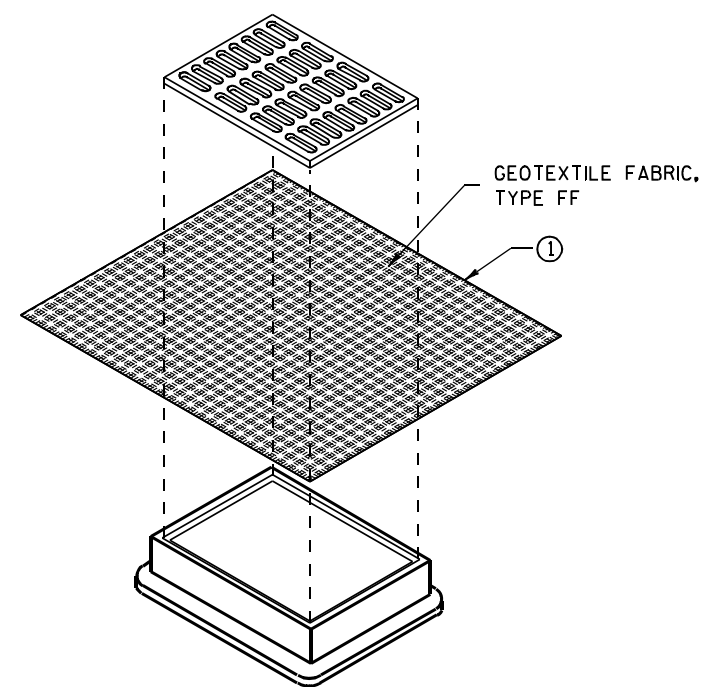
**GENERAL NOTES**

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.

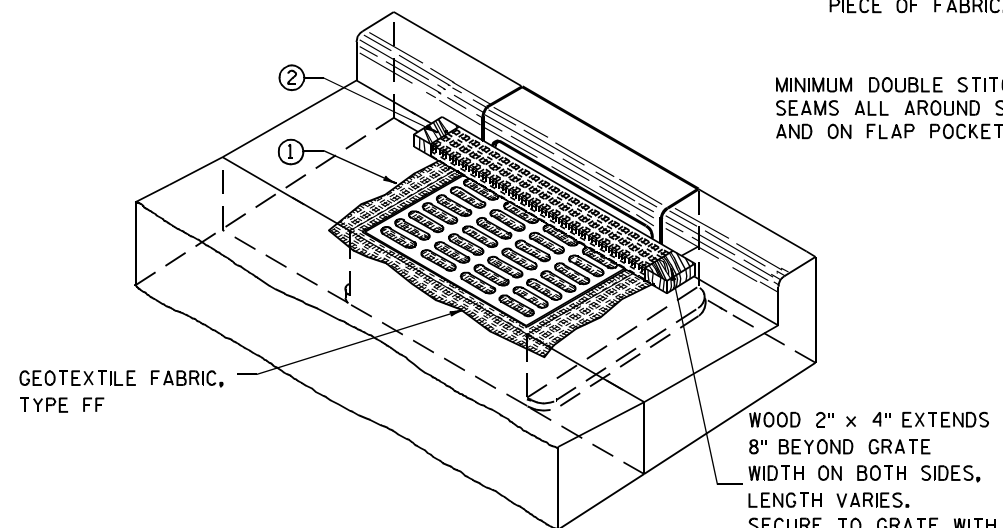
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 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.



**INLET PROTECTION, TYPE B  
(WITHOUT CURB BOX)**

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



**INLET PROTECTION, TYPE C (WITH CURB BOX)**

**INSTALLATION NOTES**

**TYPE B & C**

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

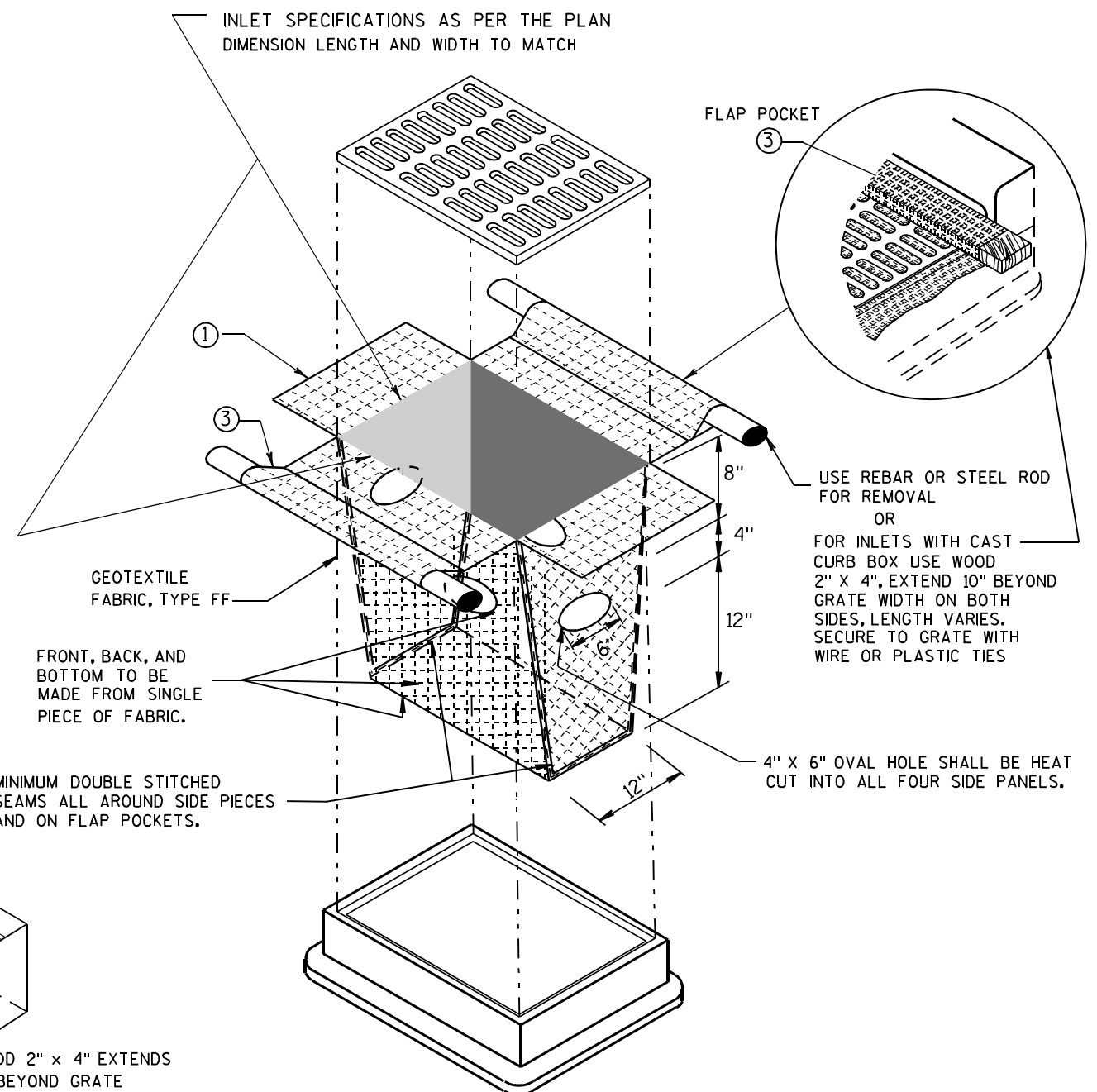
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**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.



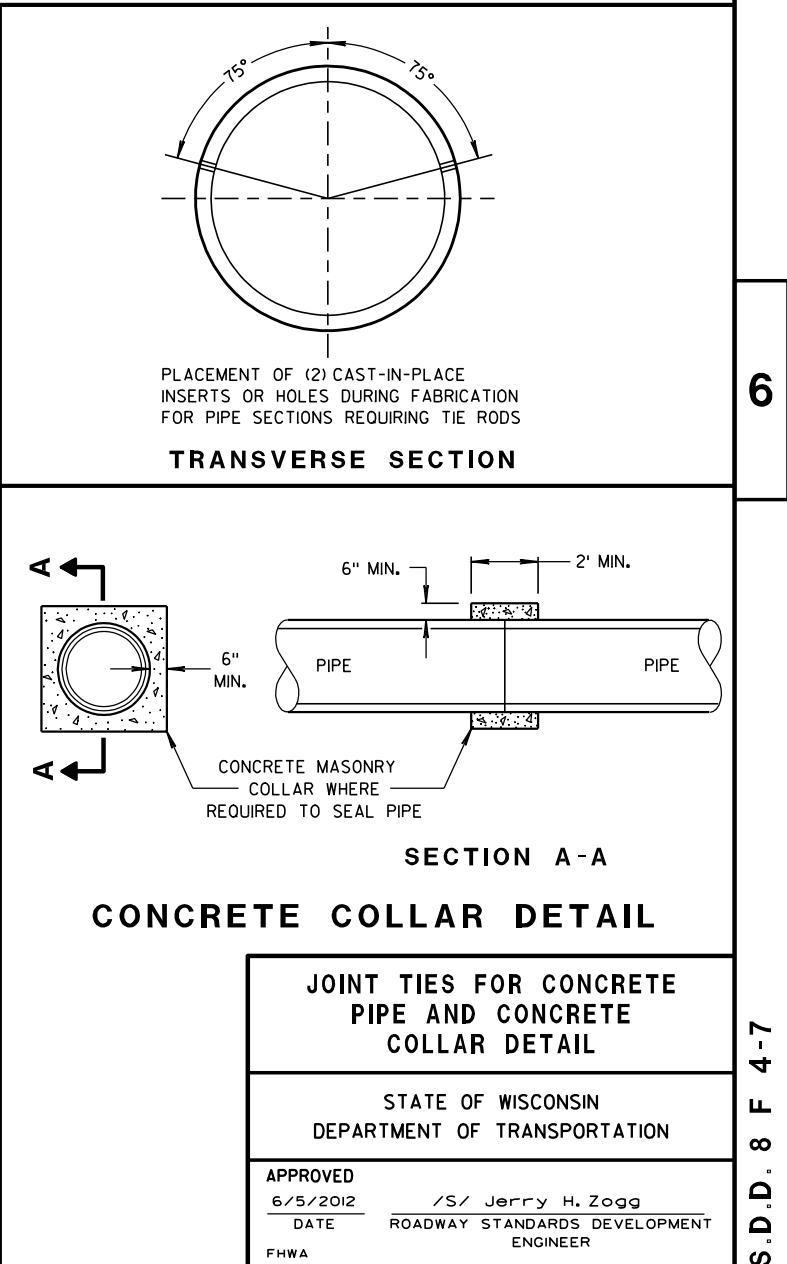
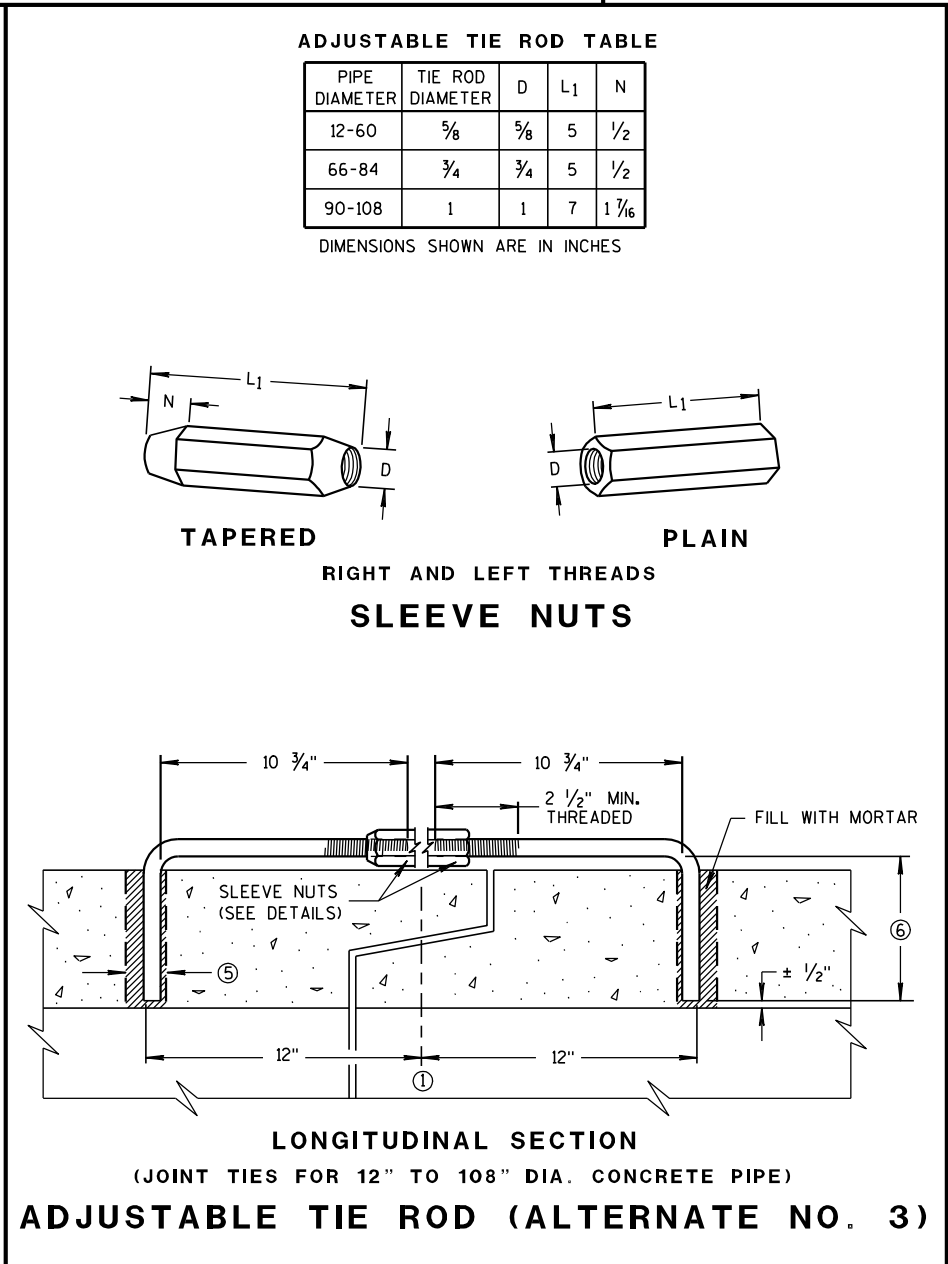
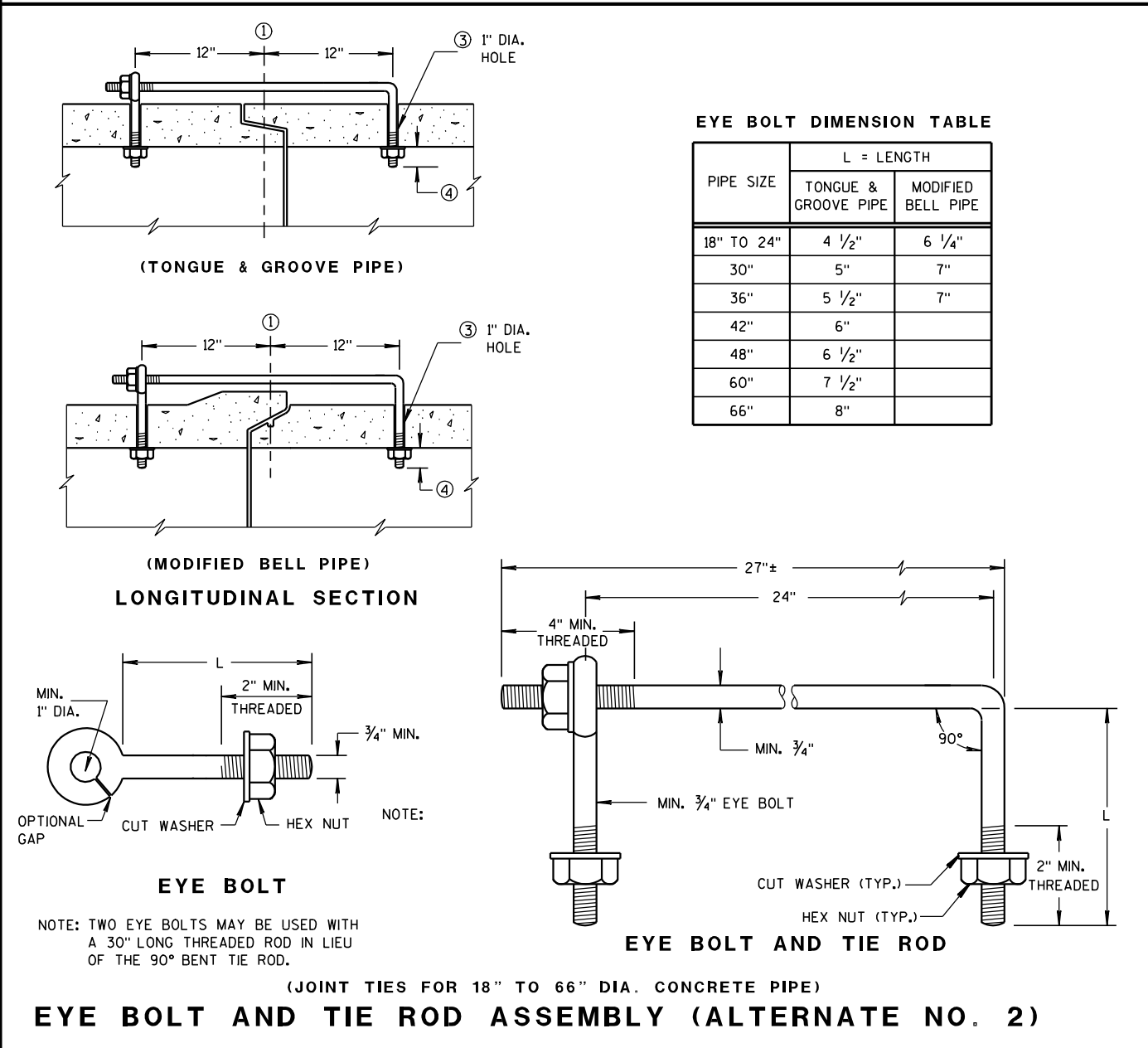
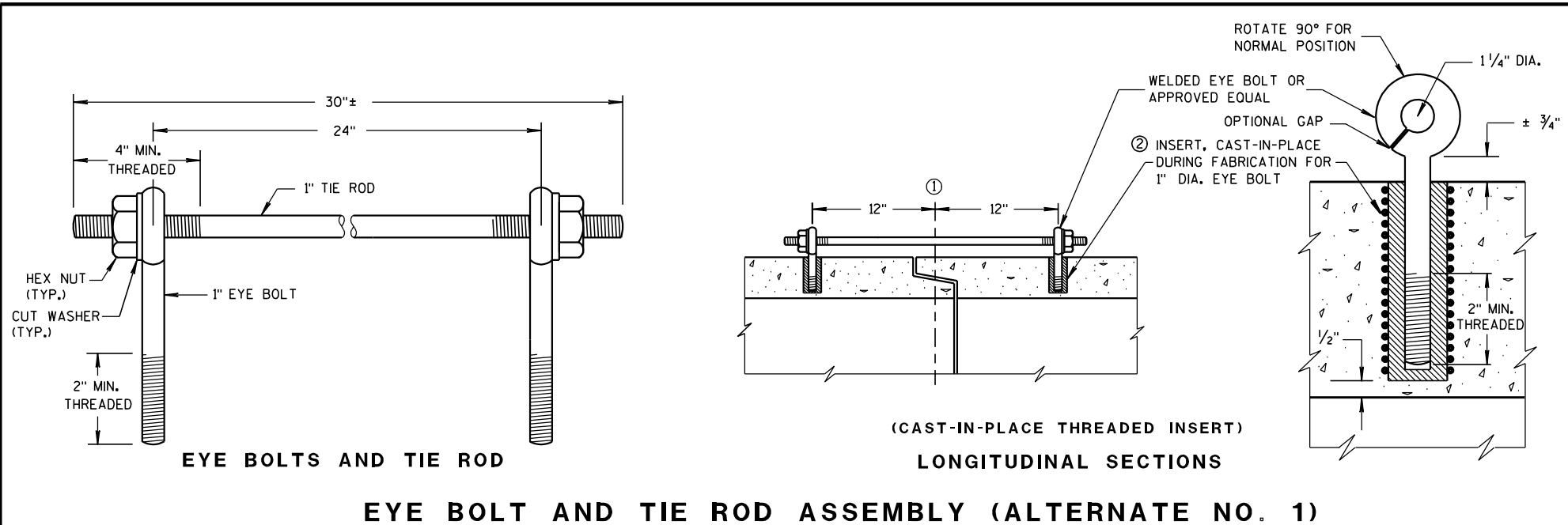
**INLET PROTECTION, TYPE D**

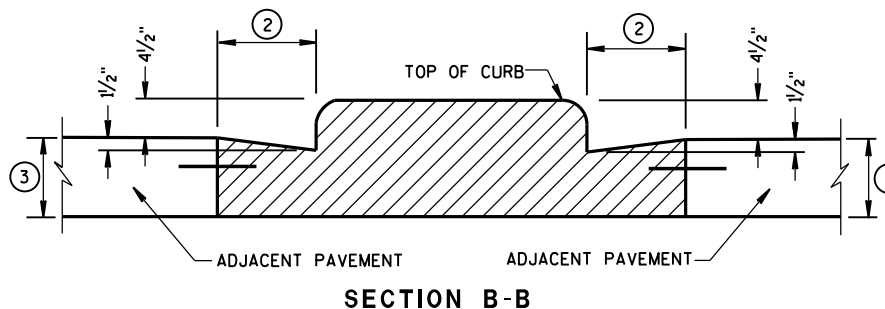
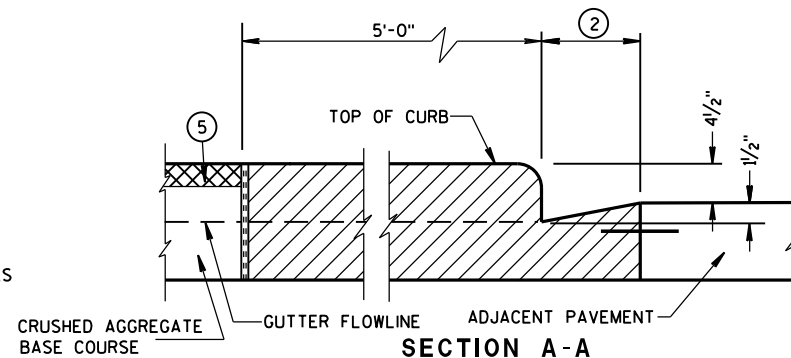
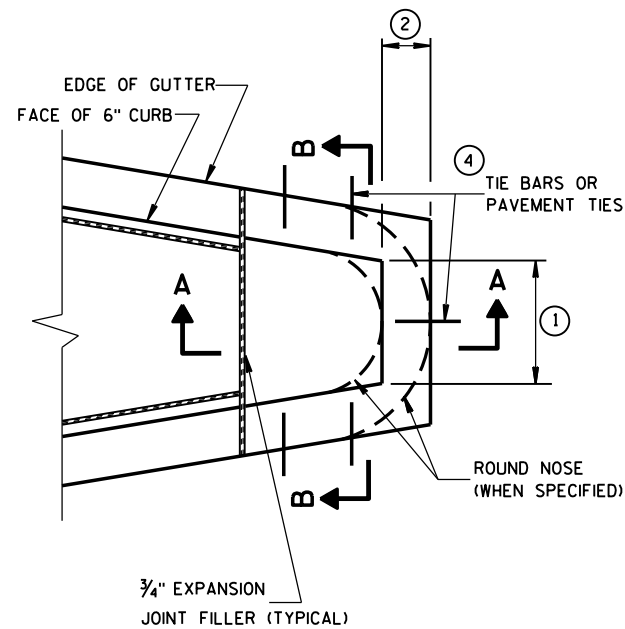
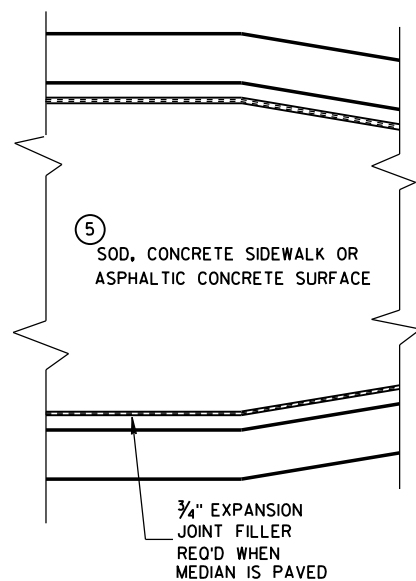
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ② )

**INLET PROTECTION  
TYPE A, B, C, AND D**

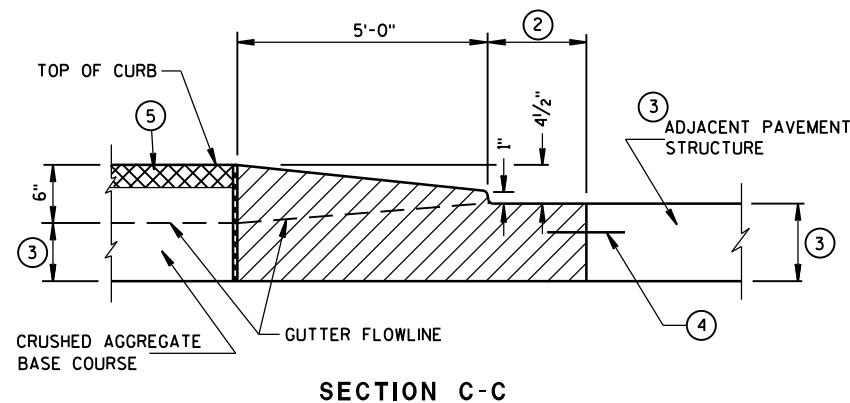
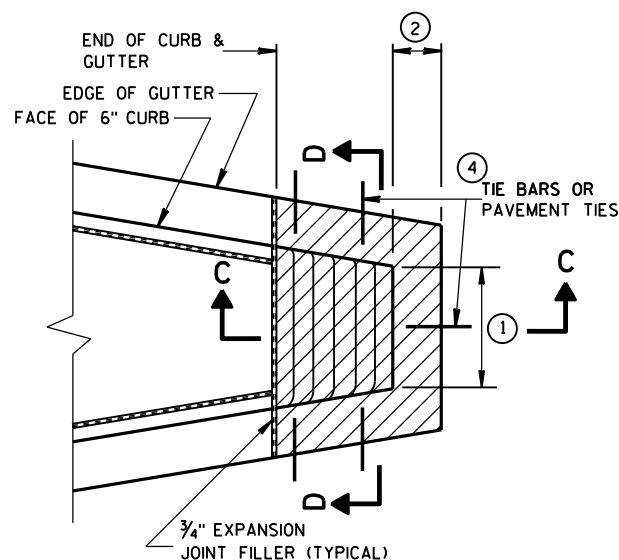
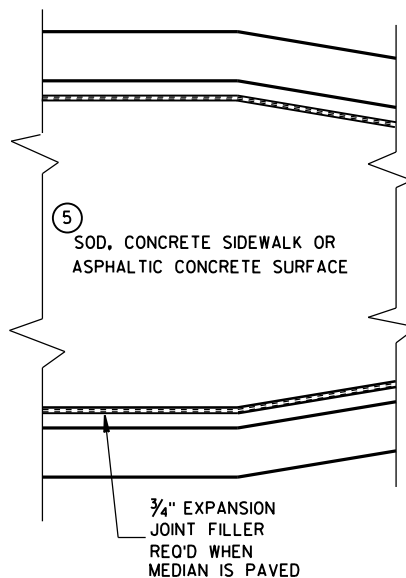
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

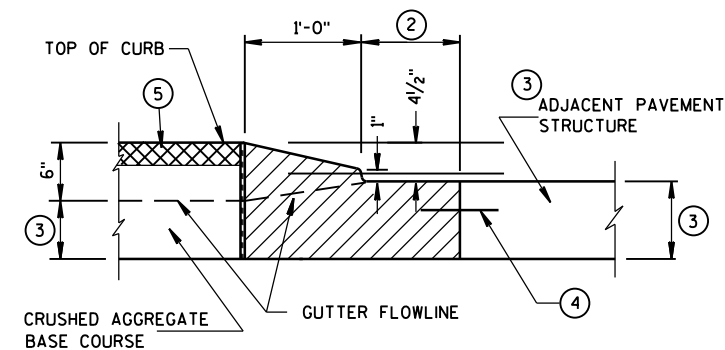
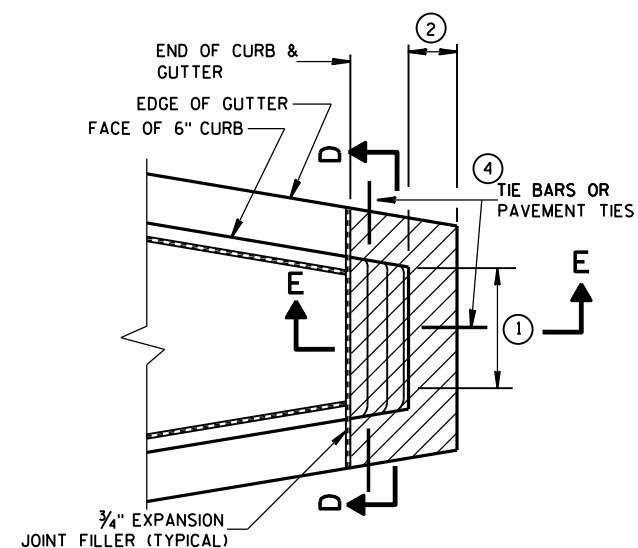




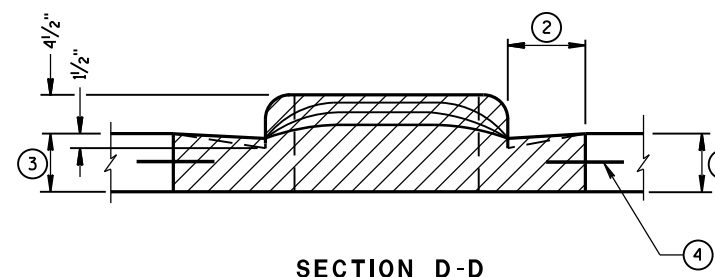
CONCRETE MEDIAN BLUNT NOSE DETAIL



CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN SLOPED NOSE TYPE 2



## 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.

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

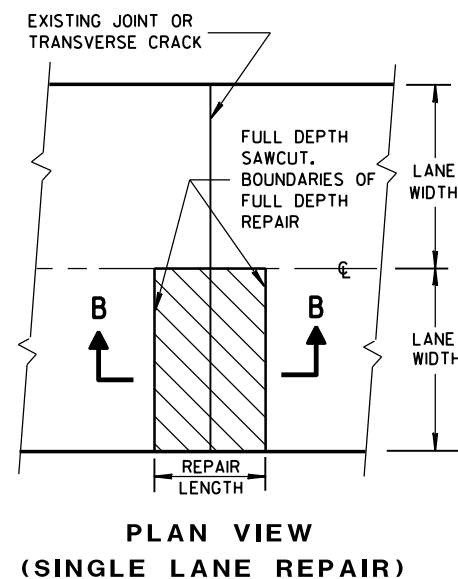
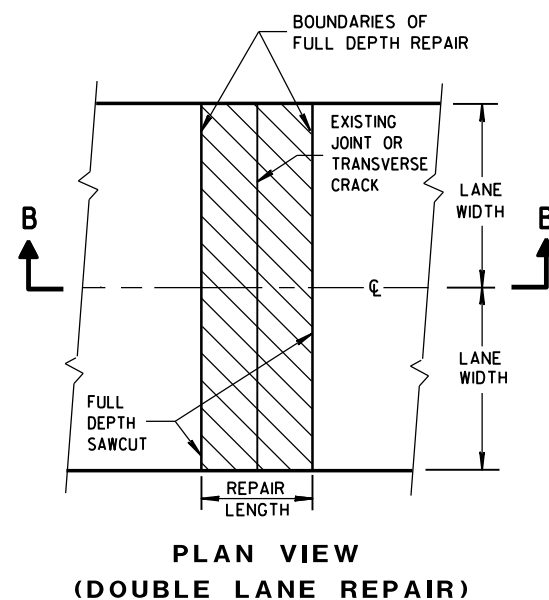
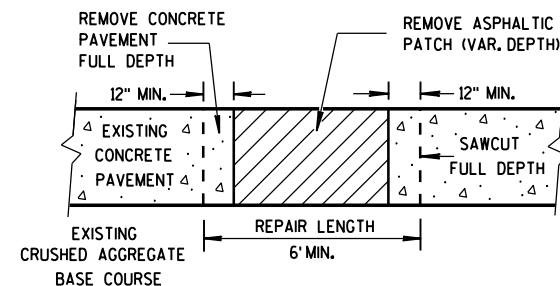
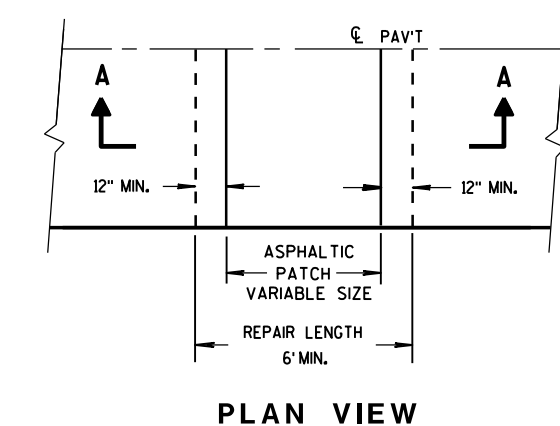
APPROVED

6/8/2006

DATE

FHWA

/S/ Jerry H. Zogg  
ROADWAY STANDARDS DEVELOPMENT  
ENGINEER



### FULL DEPTH CONCRETE PAVEMENT REMOVAL

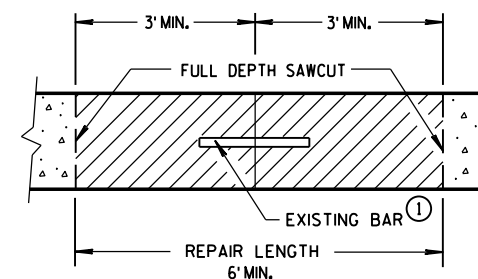
### GENERAL NOTES

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.

PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

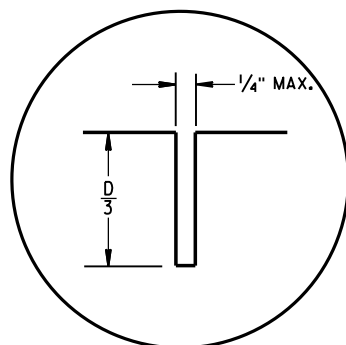
THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

① DOWEL BARS MIGHT NOT EXIST.

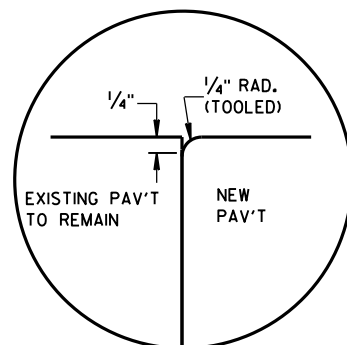


CONCRETE PAVEMENT REPAIR  
AND REPLACEMENT

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

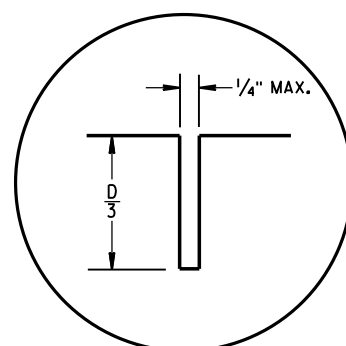


C1

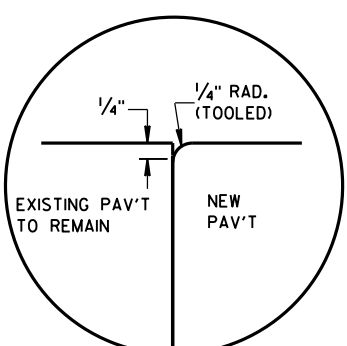


C2

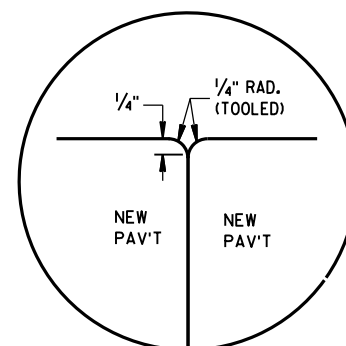
## TRANSVERSE JOINTS



L1



L2



L3

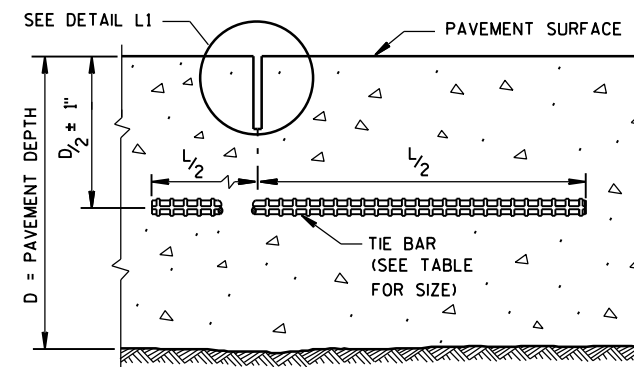
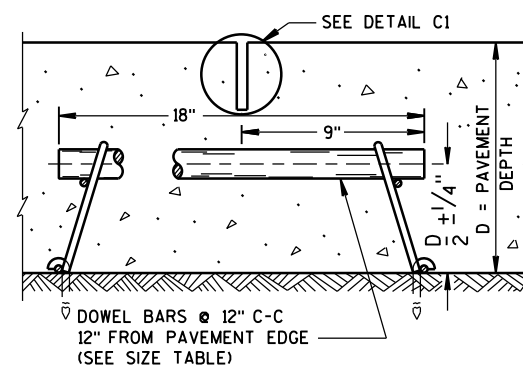
## LONGITUDINAL JOINTS

TIE BAR TABLE

| PAVEMENT DEPTH (D) | TIE BAR SIZE | TIE BAR LENGTH (L) | MAX. TIE BAR SPACING |
|--------------------|--------------|--------------------|----------------------|
| < 10 1/2"          | NO. 4        | 30"                | 36"                  |
| ≥ 10 1/2"          | NO. 5        | 36"                | 36"                  |
|                    | NO. 4 *      | 30"                | 24" **               |

\* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

\*\* CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

SECTION C-C  
SAWED LONGITUDINAL JOINTSECTION F-F  
CONTRACTION JOINT

## GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

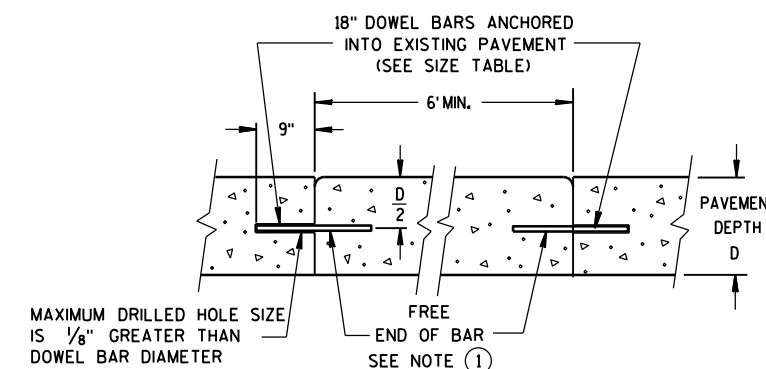
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

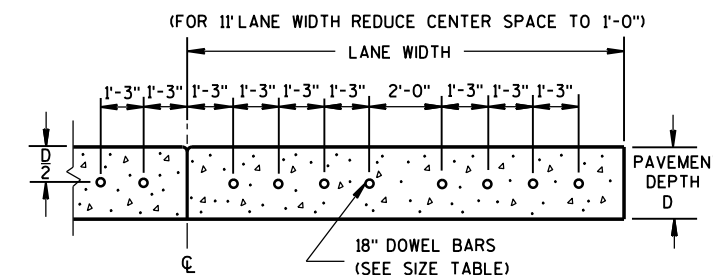
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES 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.



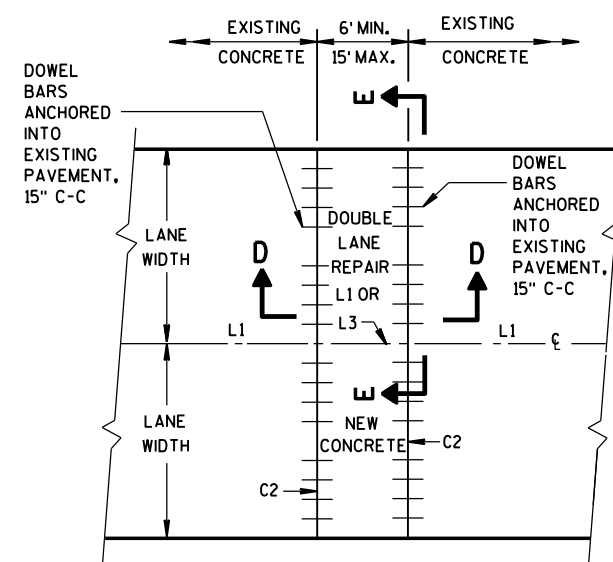
SECTION D-D

SECTION E-E  
DRILLED DOWEL BAR CONSTRUCTION JOINTPAVEMENT DEPTH, DOWEL BAR SIZE  
AND JOINT SPACING TABLE

| PAVEMENT DEPTH (D) | DOWEL BAR DIAMETER | CONTRACTION JOINT SPACING |
|--------------------|--------------------|---------------------------|
| 5 1/2", 6", 6 1/2" | NONE               | 12'                       |
| 7", 7 1/2"         | 1"                 | 14'                       |
| 8", 8 1/2"         | 1 1/4"             | 15'                       |
| 9", 9 1/2"         | 1 1/4"             | 15'                       |
| 10" & ABOVE        | 1 1/2"             | 15'                       |

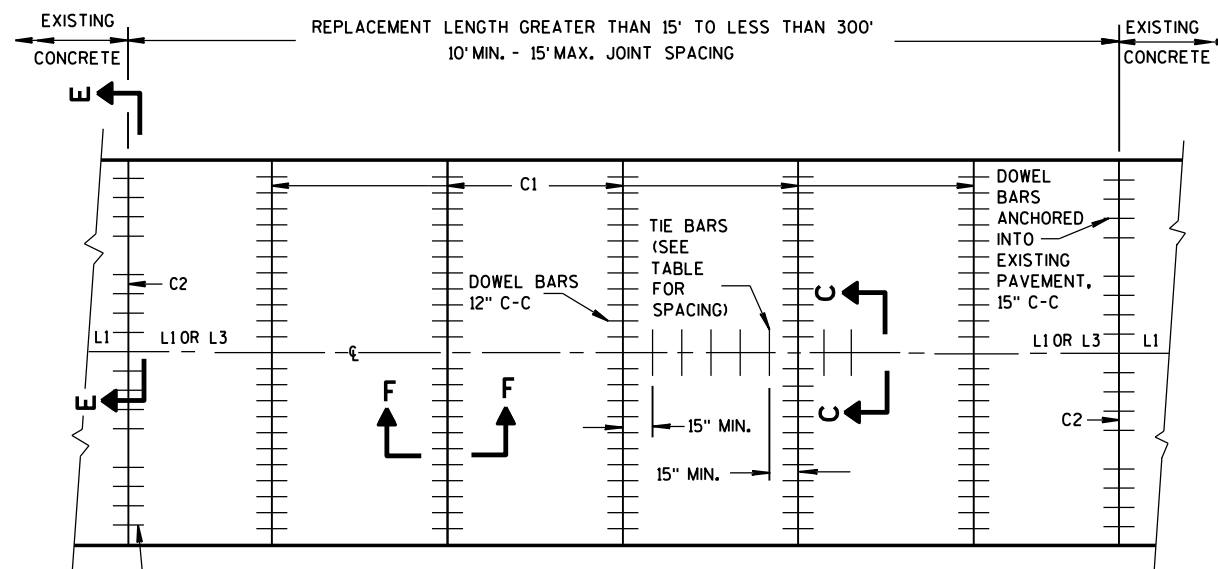
CONCRETE PAVEMENT  
REPAIR AND REPLACEMENT

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



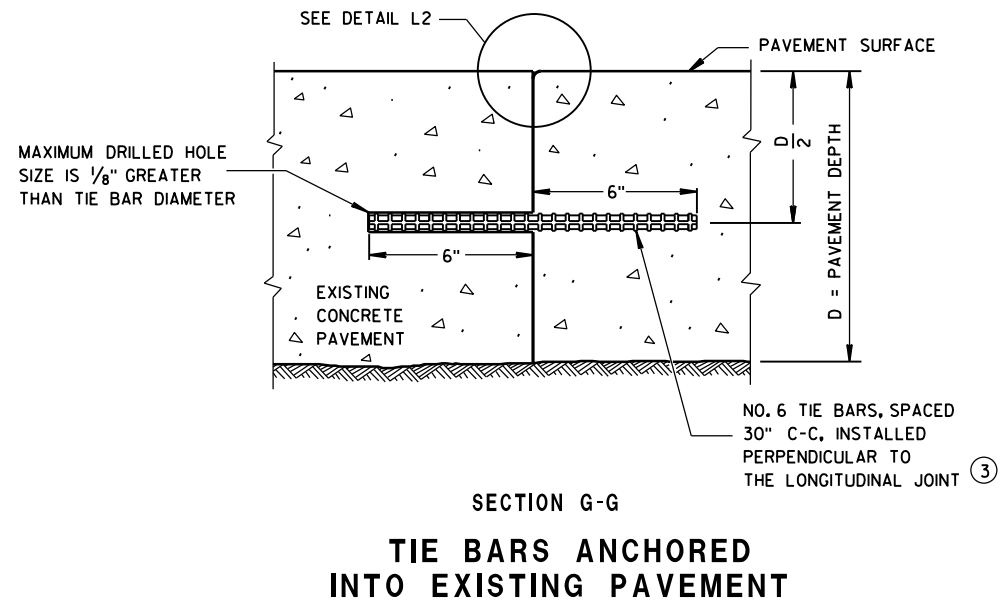
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPAIR



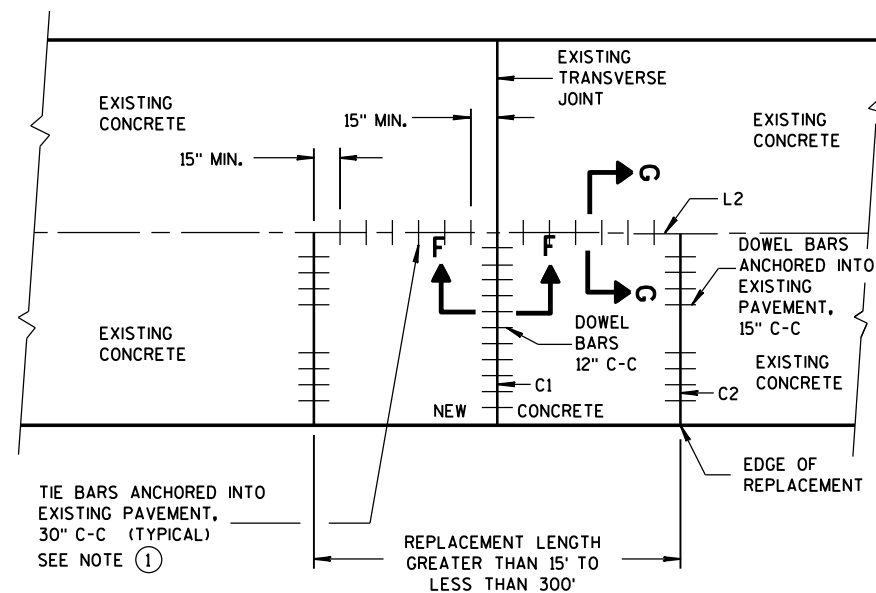
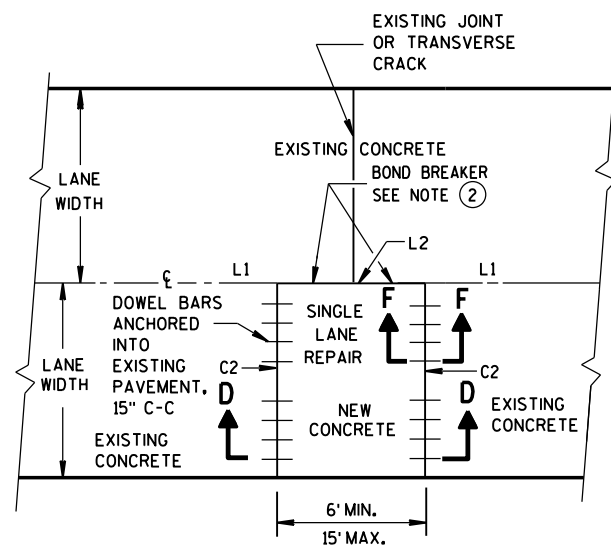
PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT



## 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 IN A HOLE OF 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.
- ③ ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



**CONCRETE PAVEMENT  
REPAIR AND REPLACEMENT**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
Sept., 2015  
DATE  
FHWA

/S/ Peter Kemp, P.E.  
PAVEMENT SUPERVISOR



(PUBLIC CROSS-TRAFFIC MAINTAINED.  
NO ACCESS TO PROJECT).



(CONTRACTOR, LOCAL BUSINESS AND  
RESIDENT ACCESS TO PROJECT)

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.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

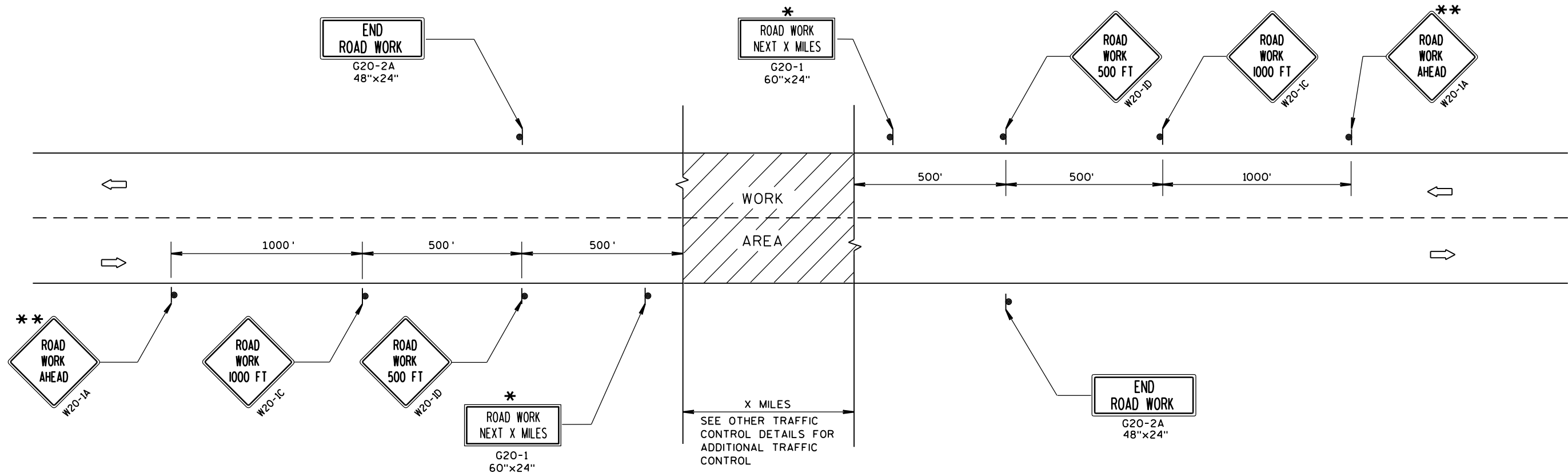
R11-4 AND R11-3 SHALL BE 60" X 30".

\*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.**

|                                                                                       |                                       |
|---------------------------------------------------------------------------------------|---------------------------------------|
|  | SIGN ON PERMANENT SUPPORT             |
|  | TYPE III BARRICADE                    |
|  | TYPE III BARRICADE WITH ATTACHED SIGN |
|  | TYPE "A" WARNING LIGHT (FLASHING)     |
|  | WORK AREA                             |

|                                                                   |                                                                                                  |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <p><b>BARRICADES AND SIGNS<br/>FOR<br/>SIDEROAD CLOSURES</b></p>  |                                                                                                  |
| <p><b>STATE OF WISCONSIN<br/>DEPARTMENT OF TRANSPORTATION</b></p> |                                                                                                  |
| <p><b>APPROVED</b><br/><u>Sept. 2015</u><br/><b>DATE</b></p>      | <p><b>/S/ Peter Amakobe Atepe</b><br/><b>STATEWIDE WORK ZONE TRAFFIC<br/>SAFETY ENGINEER</b></p> |
| <p><b>FHWA</b></p>                                                |                                                                                                  |



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

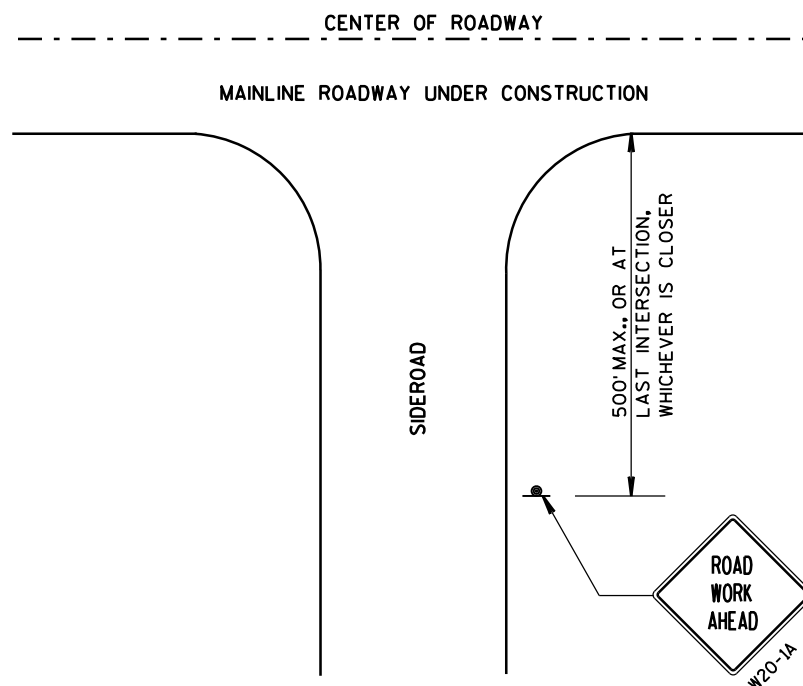
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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.

\* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

\*\* PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



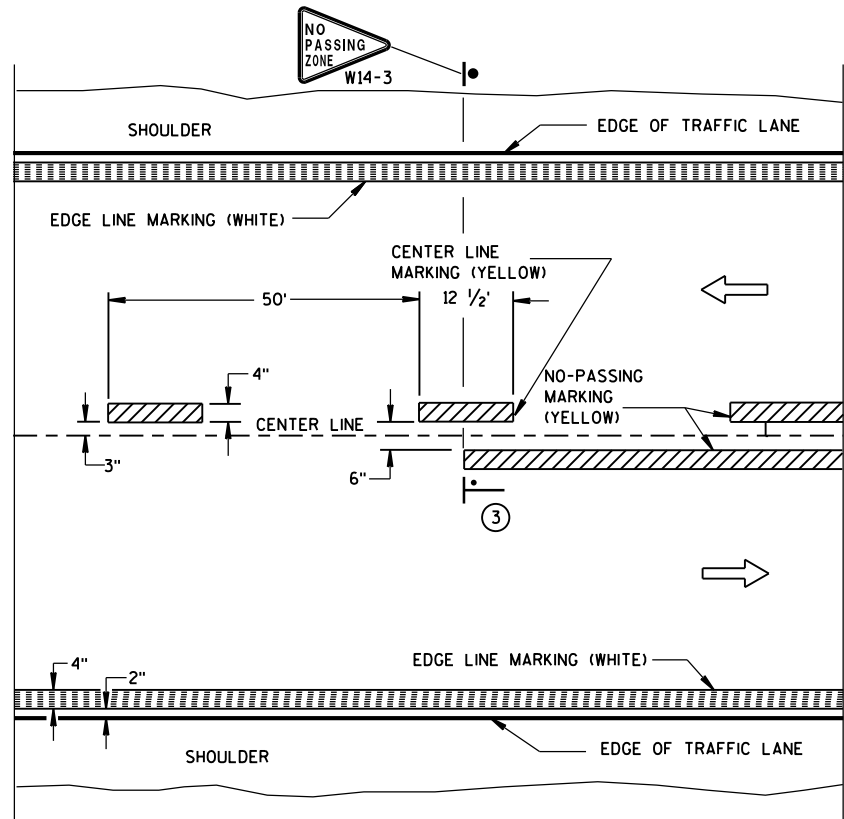
## LEGEND

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

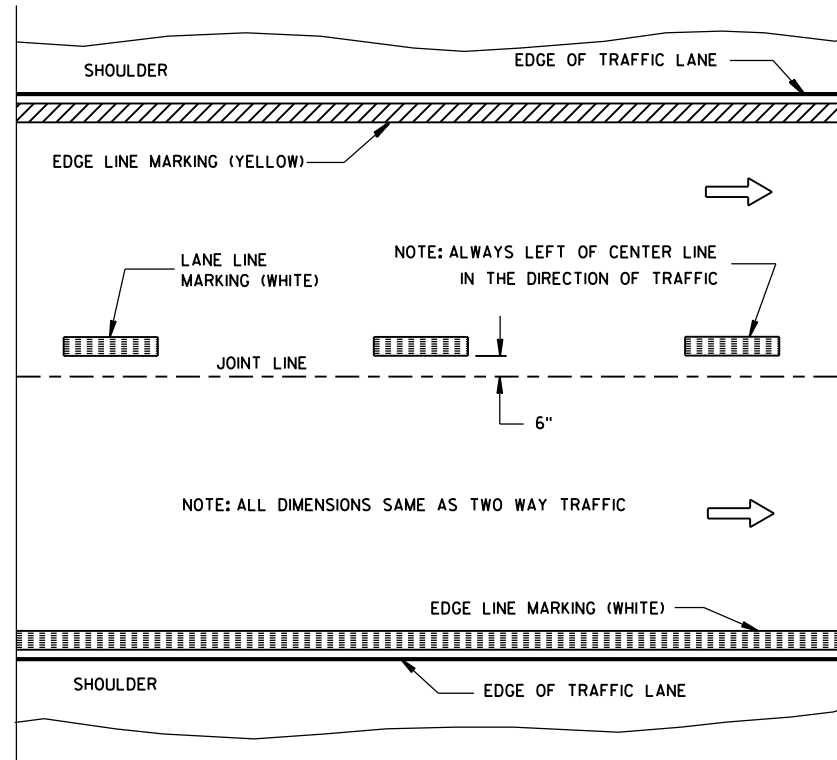
TRAFFIC CONTROL, ADVANCE  
WARNING SIGNS 45 M.P.H.  
OR GREATER TWO-WAY  
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
Sept. 2015 /S/ Peter Amokobe Atepe  
DATE STATEWIDE WORK ZONE TRAFFIC  
FHWA SAFETY ENGINEER

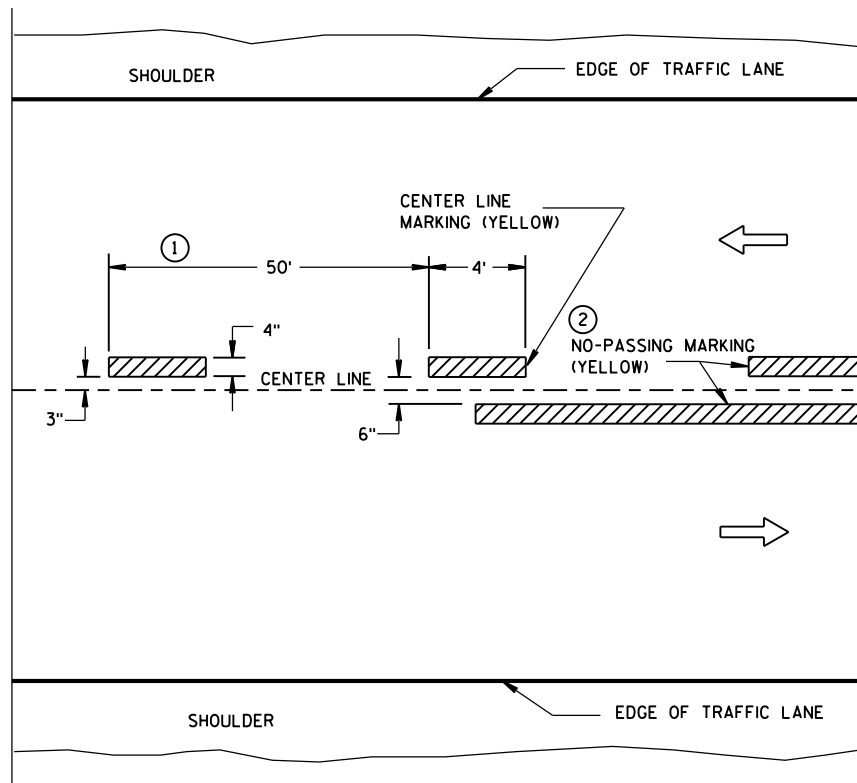


TWO WAY TRAFFIC

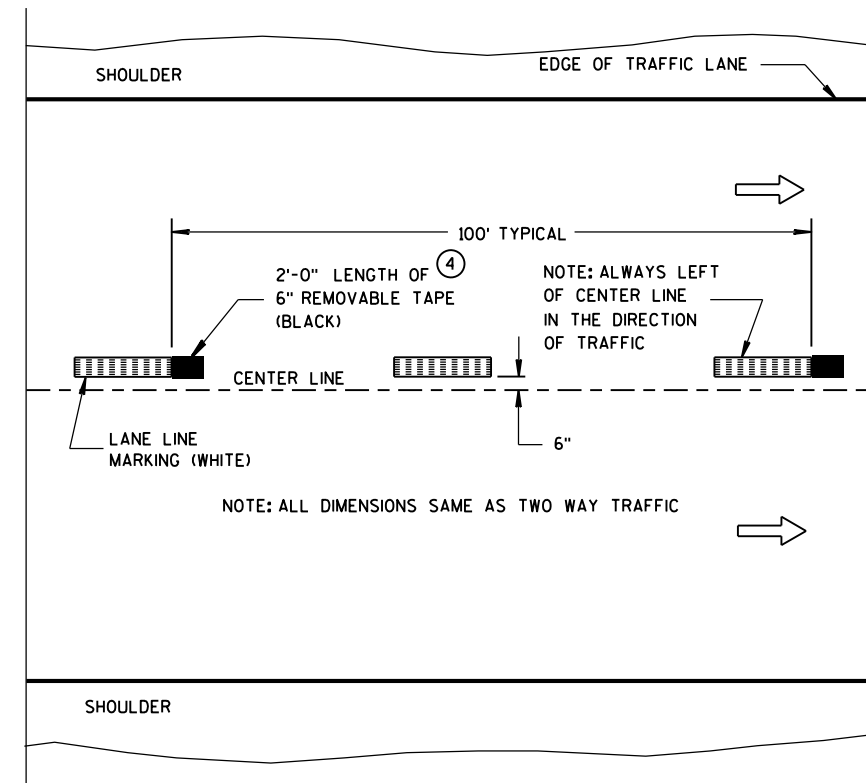


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING  
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

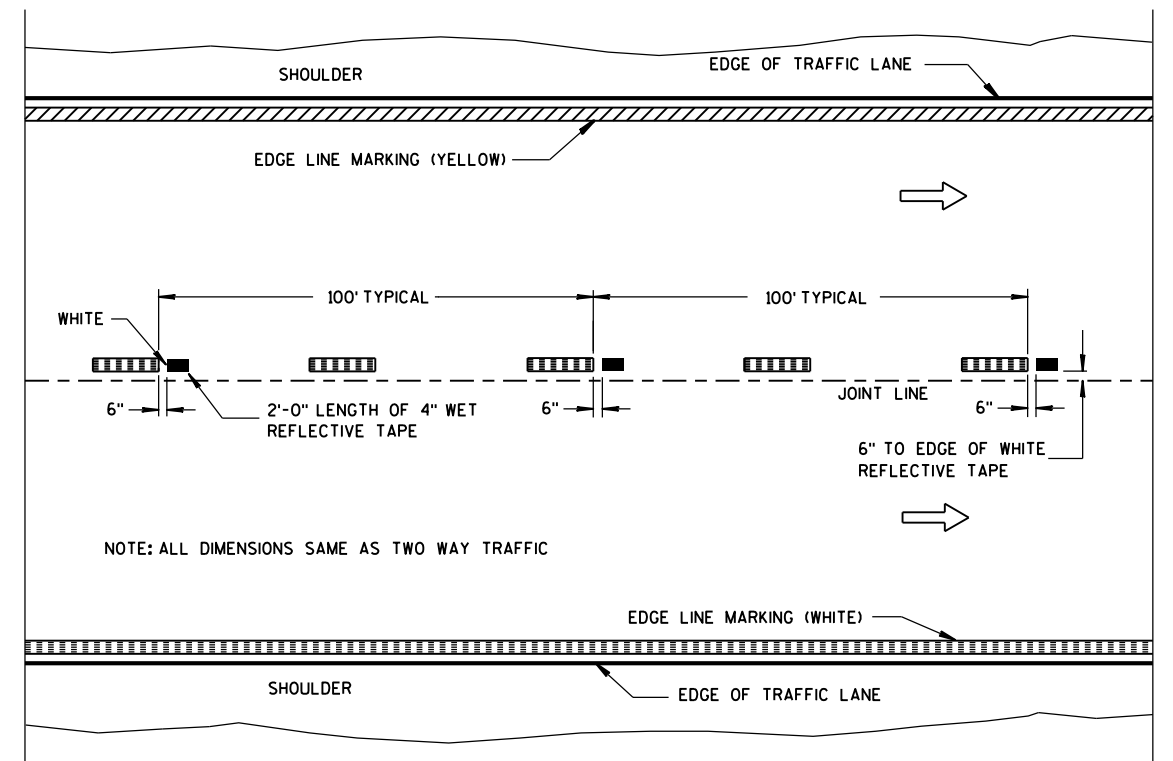
GENERAL NOTES

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

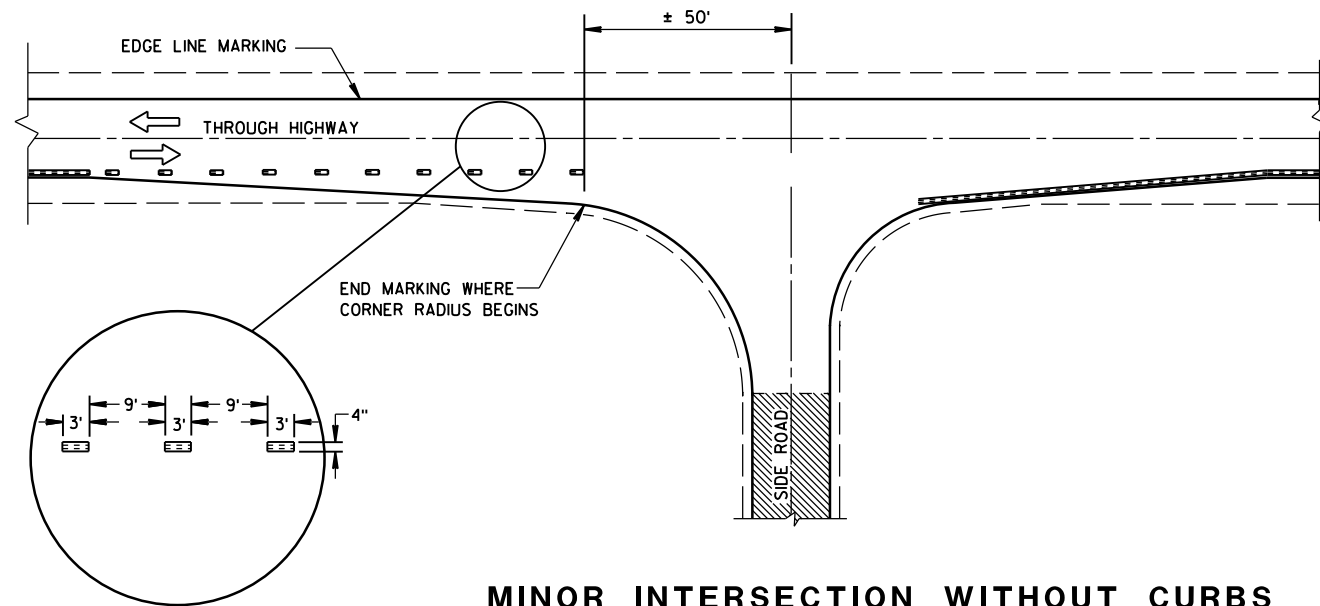
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING  
(MAINLINE)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

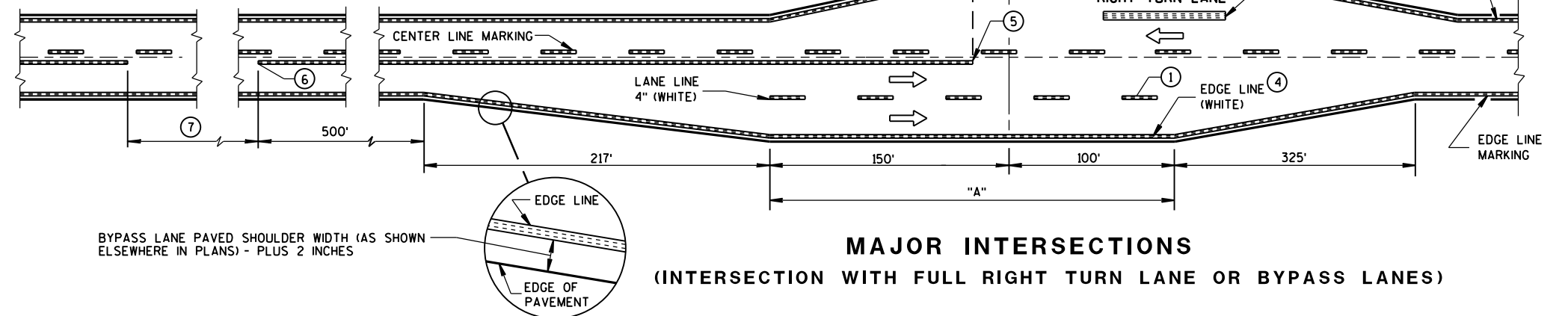
APPROVED  
5-13-2013 /S/ Travis Feltes  
DATE STATE TRAFFIC ENGINEER  
FHWA



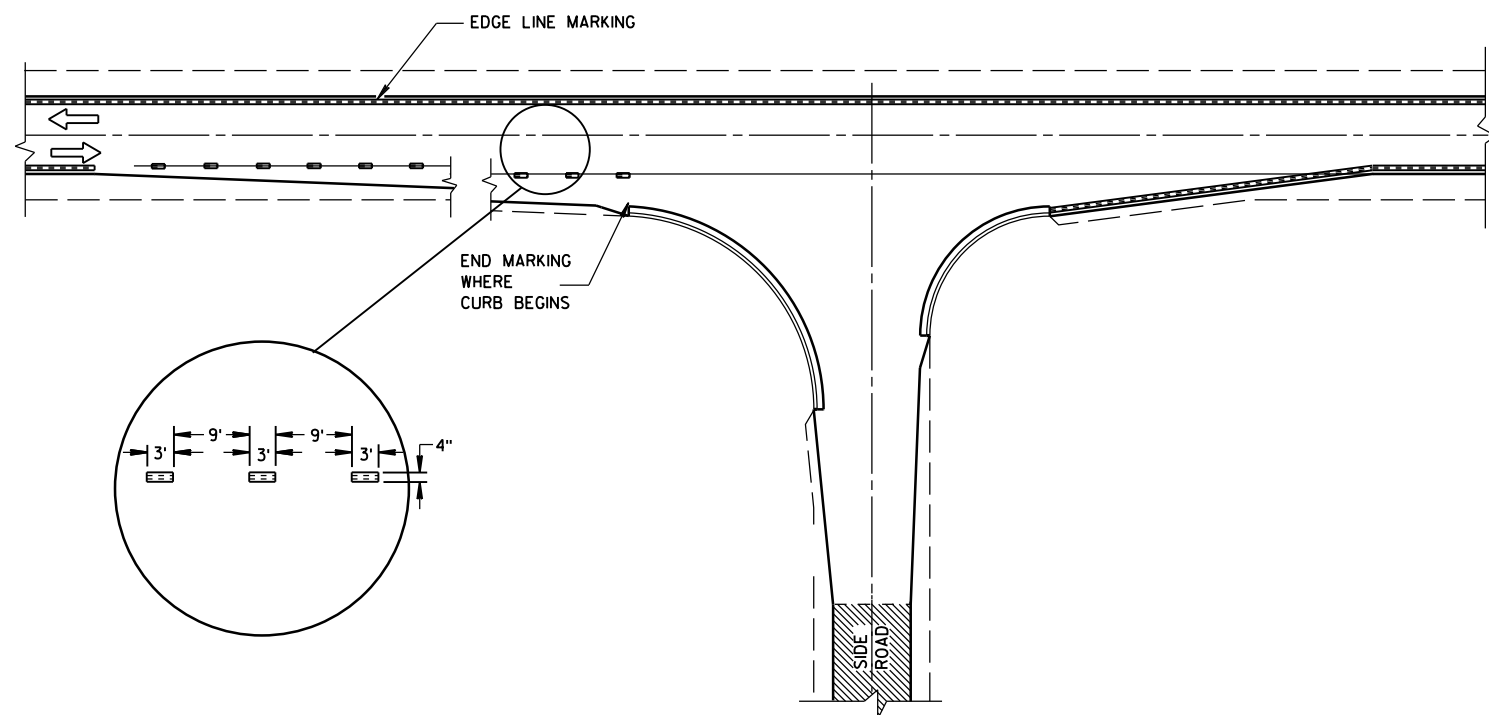
**MINOR INTERSECTION WITHOUT CURBS**

⑦

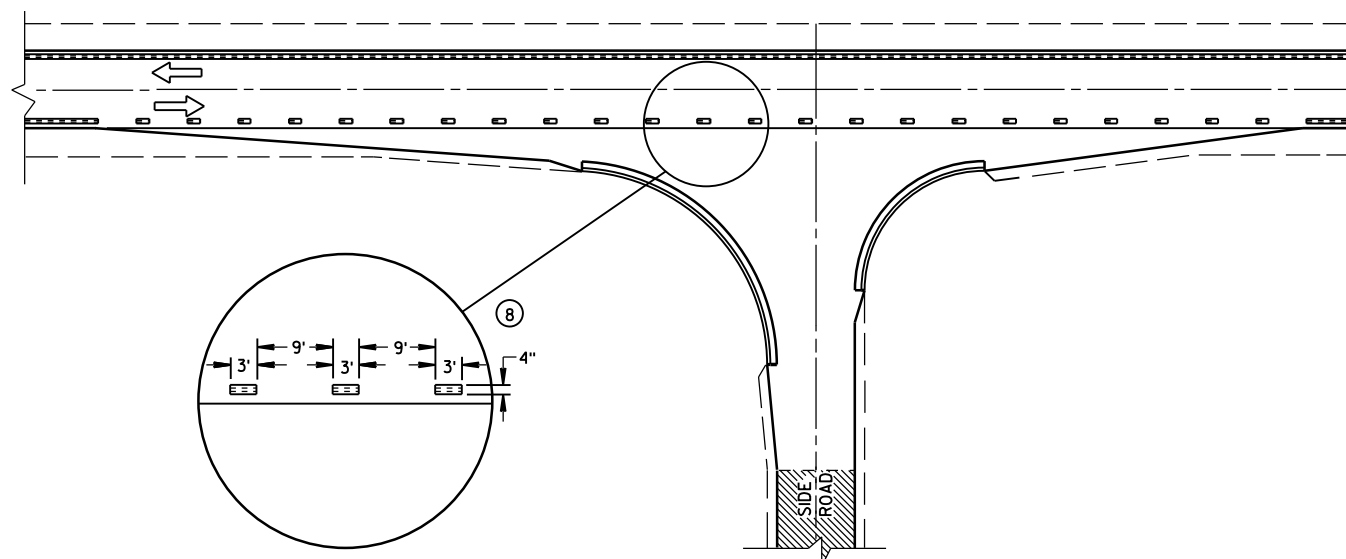
| POSTED SPEED (MPH) | MINIMUM DISTANCE BETWEEN ZONES (FEET) |
|--------------------|---------------------------------------|
| 25 - 30            | 528                                   |
| 35 - 40            | 528                                   |
| 45 - 50            | 686                                   |
| 55                 | 792                                   |



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



**MINOR INTERSECTION WITH CURBS**  
(TYPICAL MARKING)



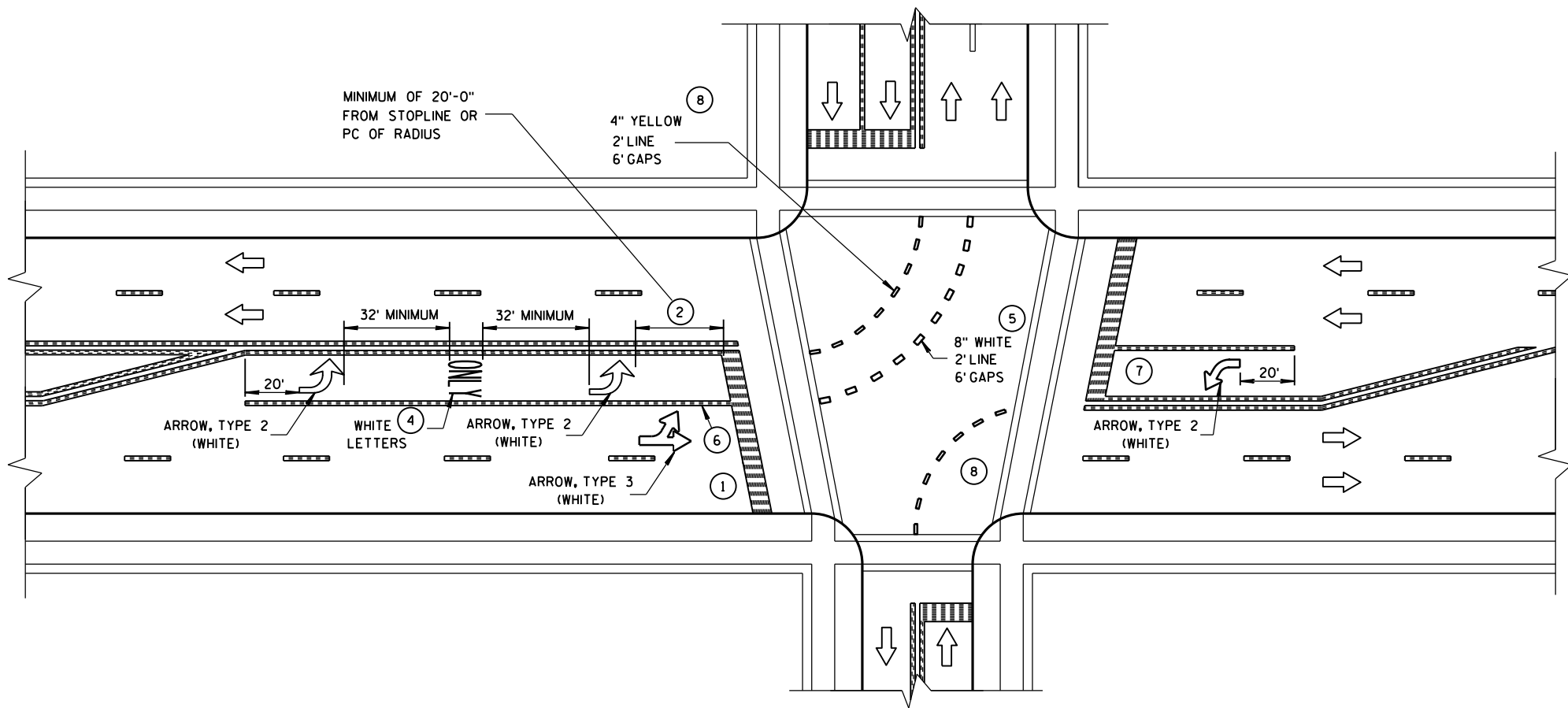
**MINOR INTERSECTION WITH CURBS**  
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

## GENERAL NOTES

- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED 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 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
  - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
  - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
  - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
  - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
  - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL ( → ) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING  
(INTERSECTIONS)

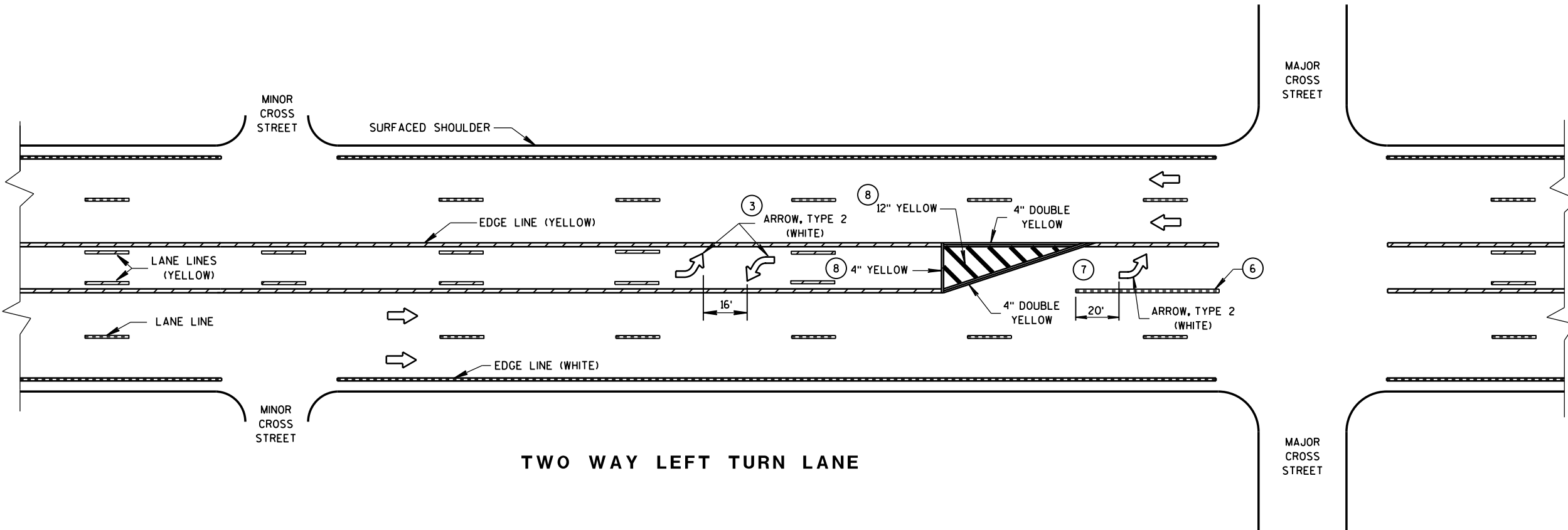
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

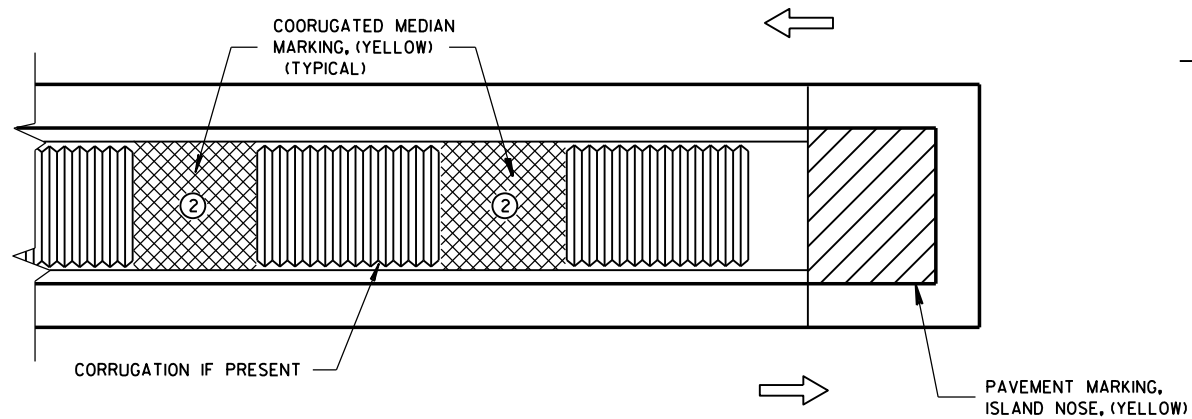
- 1 STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- 2 DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
- 3 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 4 ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET 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 FEET.
- 8 REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:  
ARROW SYMBOL (➡)  
SHOWS DIRECTION OF TRAVEL

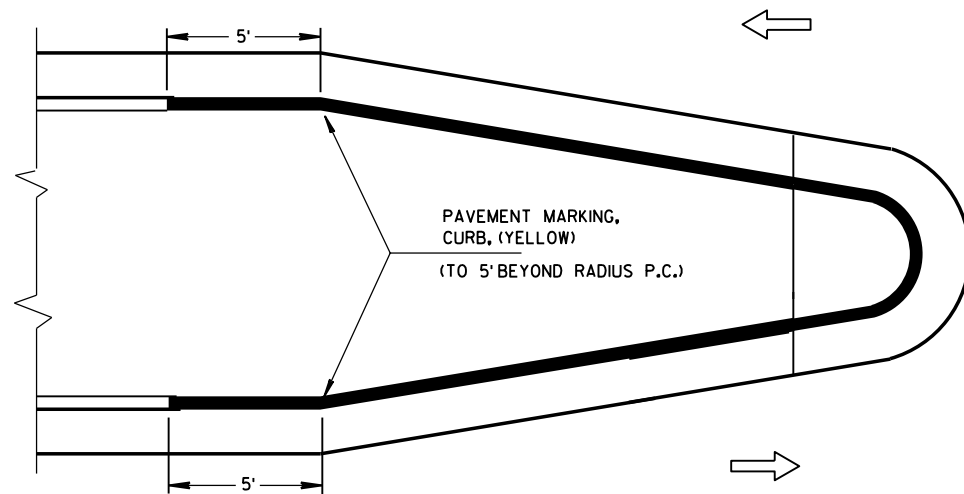


PAVEMENT MARKING  
(LEFT TURN LANE)

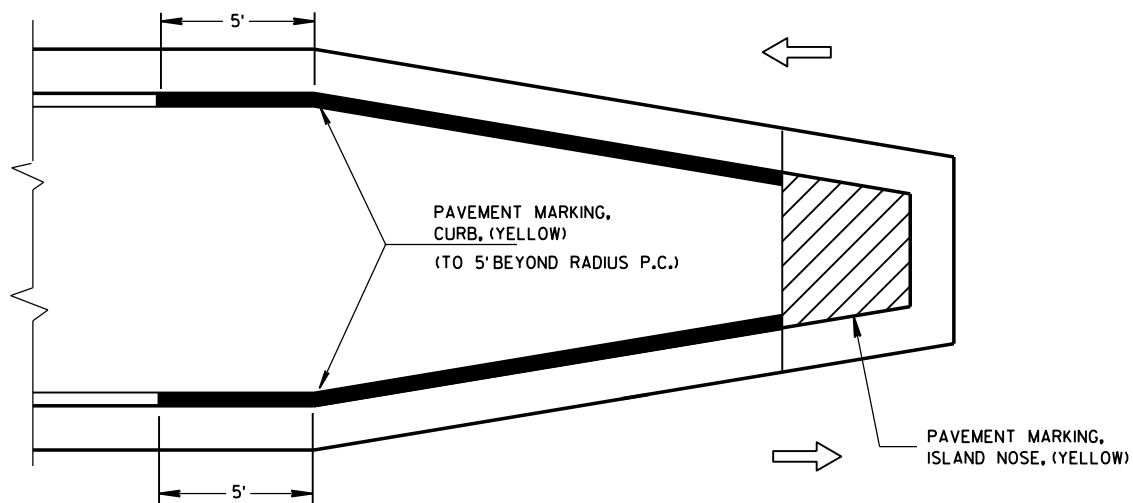
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

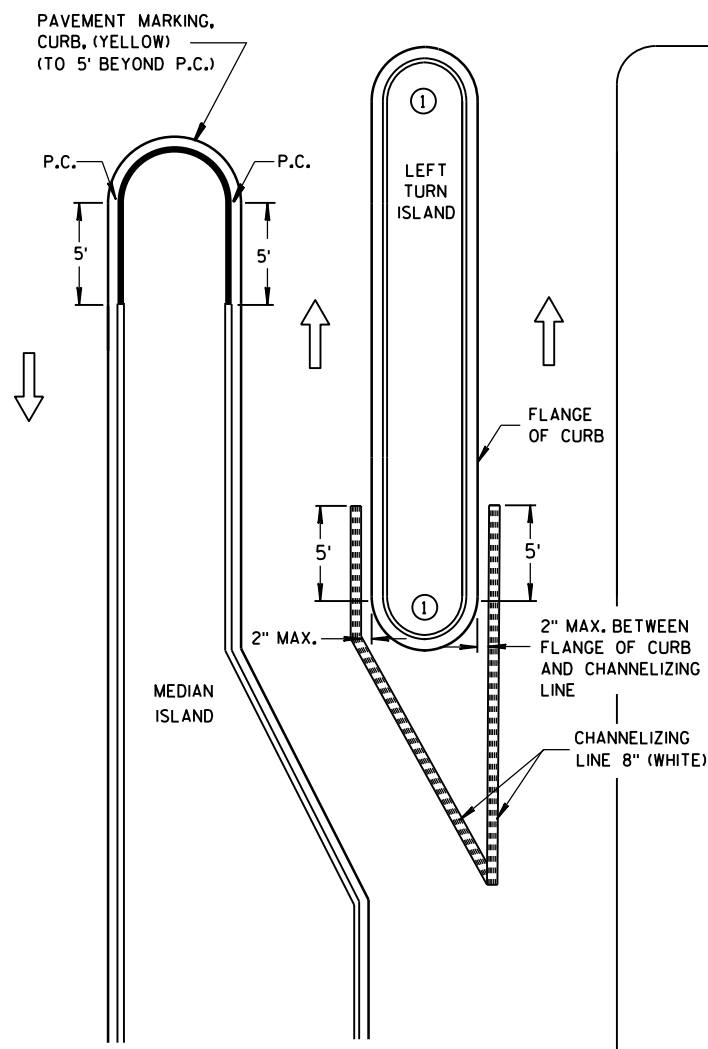


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

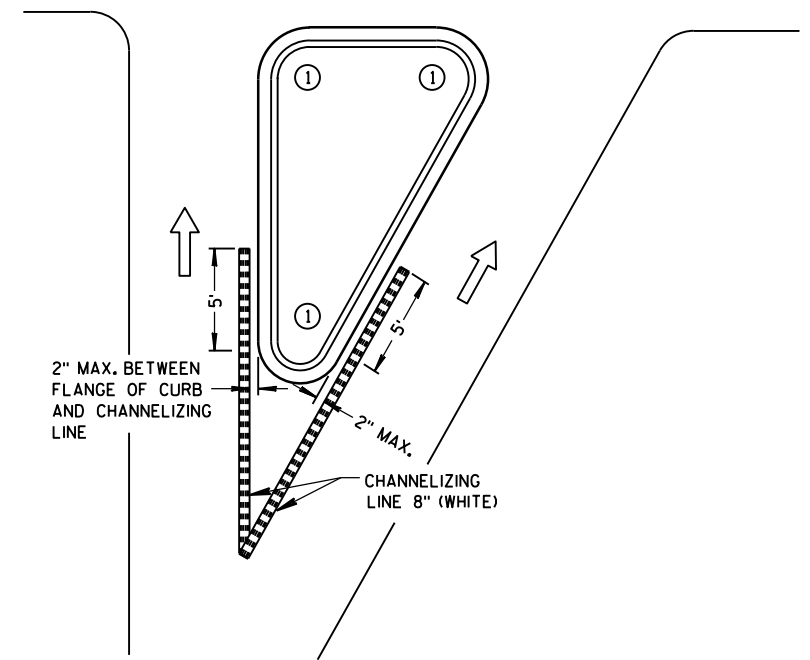
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- 1 DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- 2 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

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

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 TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

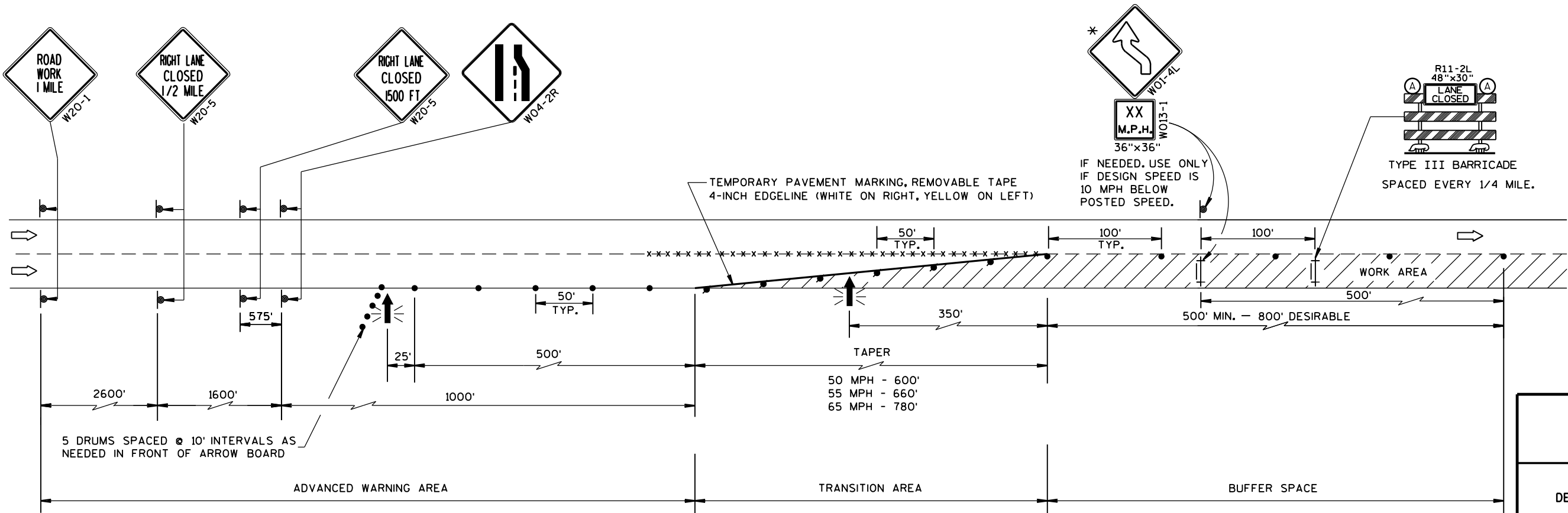
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

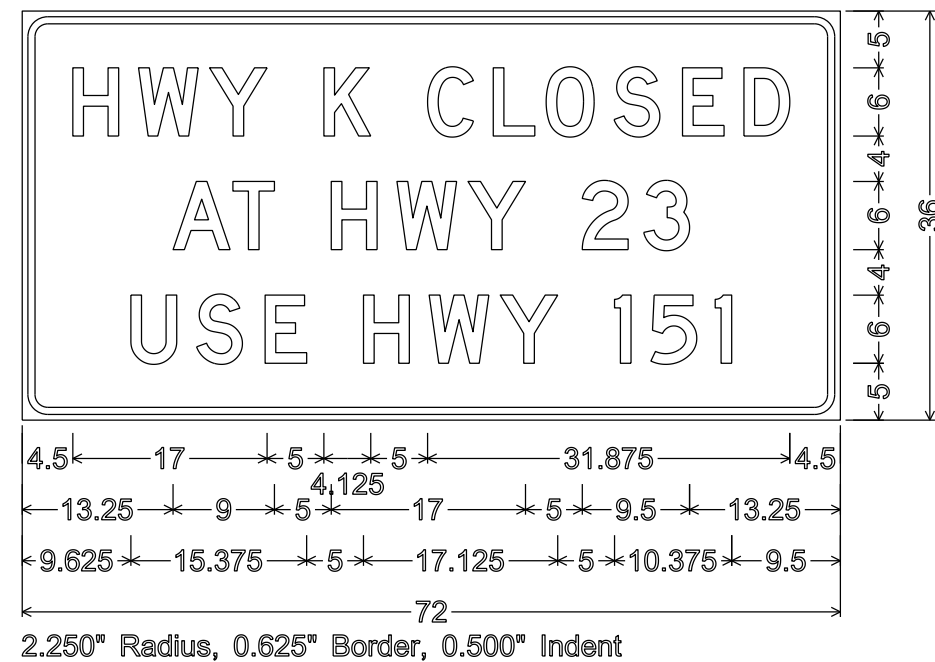
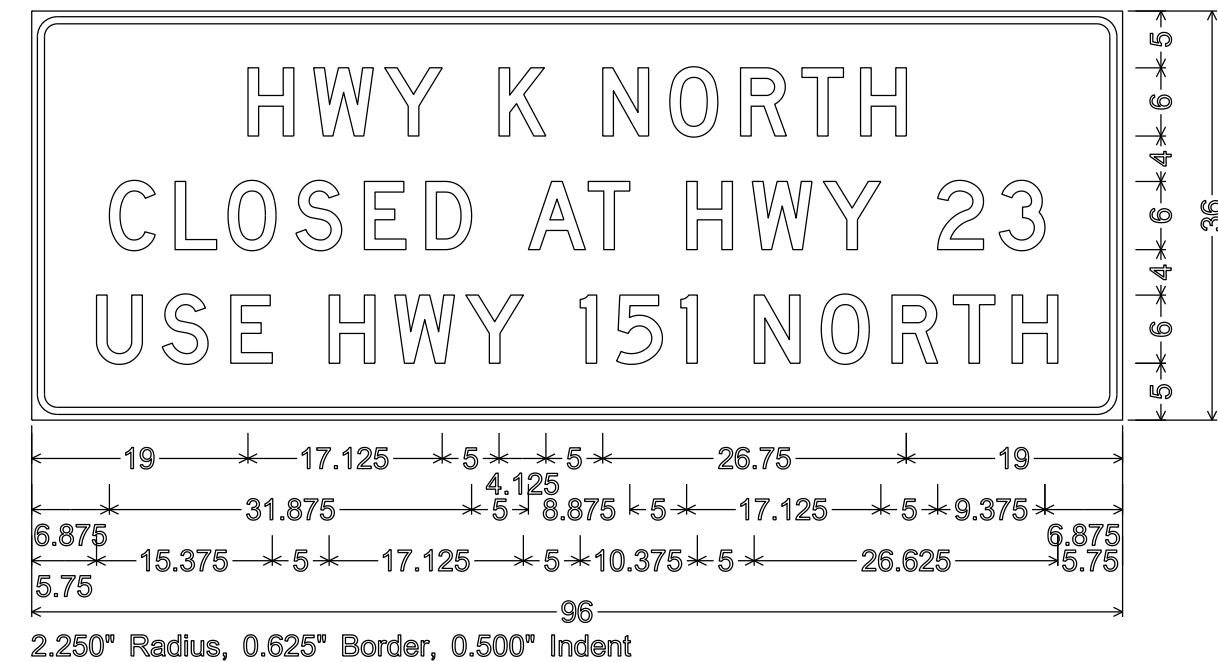
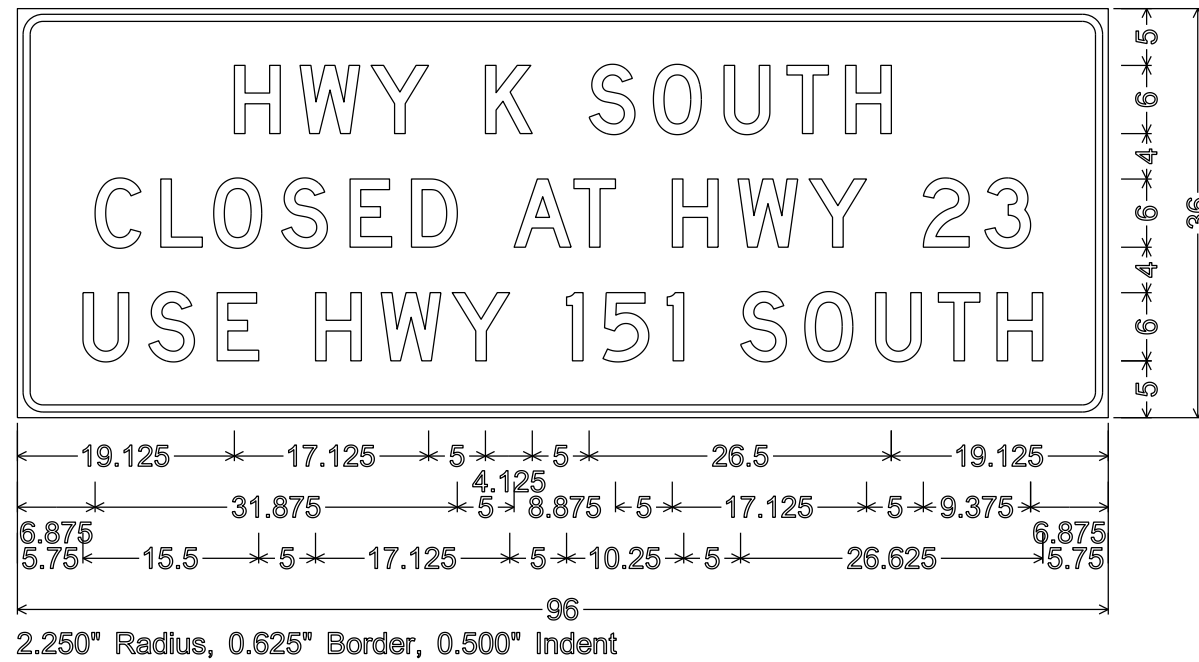
\* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



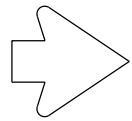
|                                                    |                                                       |
|----------------------------------------------------|-------------------------------------------------------|
| TRAFFIC CONTROL,<br>LANE CLOSURE                   |                                                       |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |                                                       |
| APPROVED<br>Feb. 2015<br>DATE                      | /S/ Travis Feltes<br>STATE TRAFFIC ENGINEER OF DESIGN |
| FHWA                                               |                                                       |

NOTES

1. Sign is Type II - Type F Reflective
2. Color:  
Background - Orange  
Message - Black
3. Message Series - D



Taycheedah  
Correctional  
Institution

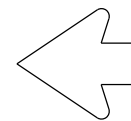


6  
4.75  
6  
4.375  
6  
4.5  
6  
4.375  
8  
13.875  
36

7.375  
54.75  
7.5  
8.5  
5.875  
5.875  
57.75  
20.375  
9.5  
50.5  
24  
84

D1-3; 2.250" Radius, 0.750" Border

Taycheedah  
Correctional  
Institution



13.875  
8  
14.125  
6  
4.5  
6  
4.375  
4.75  
36

8.5  
7.5  
54.75  
7.375  
5.875  
20.375  
57.75  
24  
50.5  
9.5  
84

D1-3; 2.250" Radius, 0.750" Border

NOTES

1. Signs are Type II- Type H Reflective
2. Color:  
Background - Green  
Message - White
3. Message Series - E

Plymouth 22  
Kohler 32  
Sheboygan 35

4.375  
6  
4.5  
6  
4.375  
36

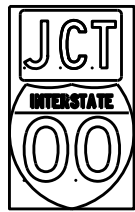
6  
44  
17.125  
10.875  
6  
6  
29.5  
48.5  
6  
50.125  
10.75  
11.125  
6  
84

D2-3; 2.250" Radius, 0.750" Border

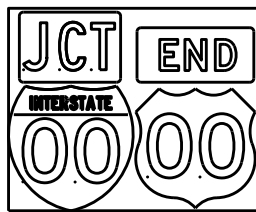
7

7

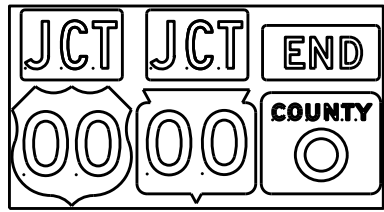
TYPICAL ASSEMBLIES



J1-1



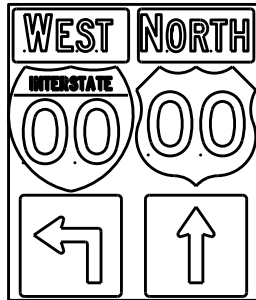
J1-2



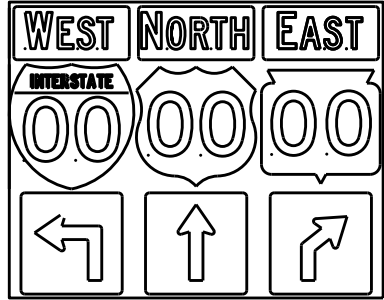
J1-3



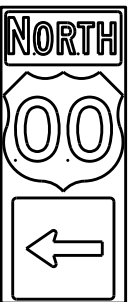
J2-1



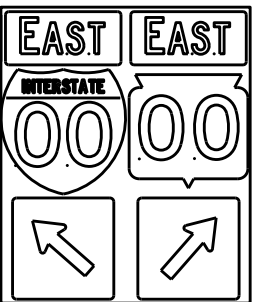
J2-2



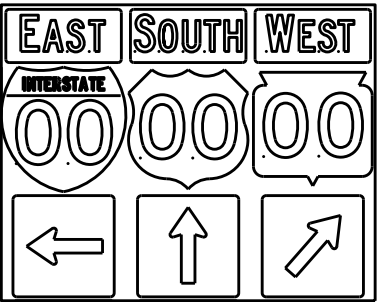
J2-3



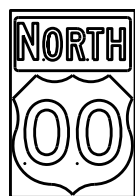
J3-1



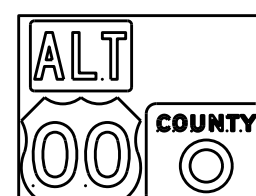
J3-2



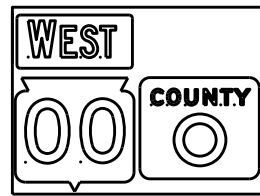
J3-3



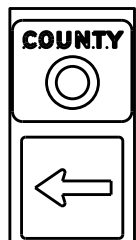
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

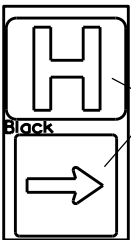


J22-1



JV

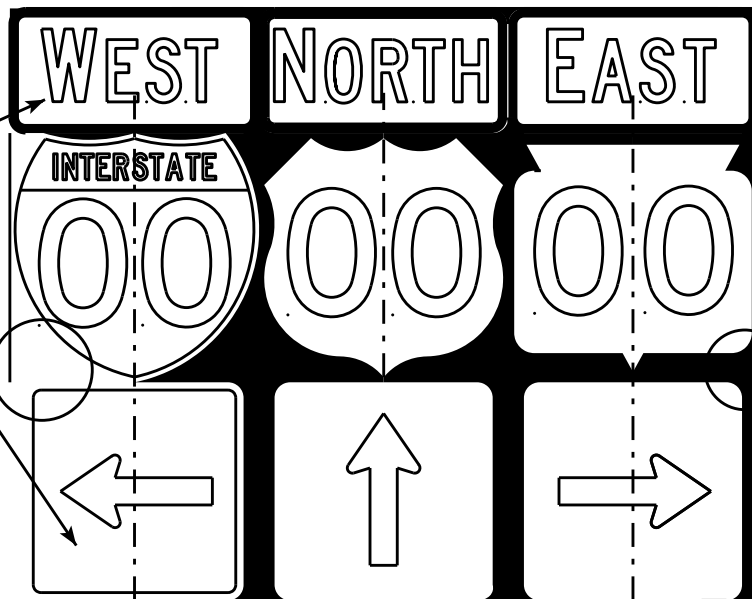
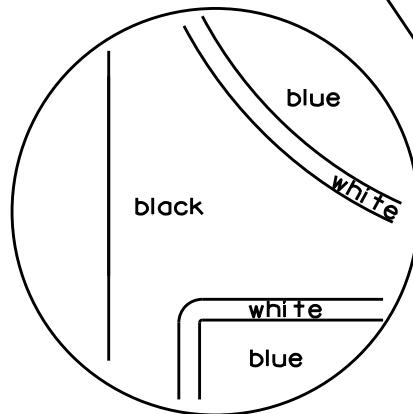
( Typical Vertical J-Assembly  
See Note 10 and 11)



JH-1

Blue Background

[blue background  
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS  
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

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 inches (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.

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A21S.DGN

PLOT DATE : 06-FEB-2014 14:10

PLOT BY : mscs.ja

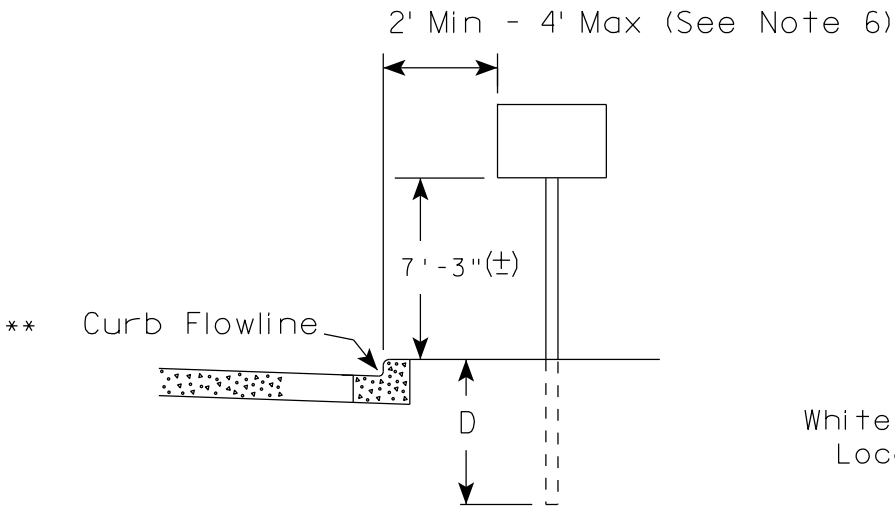
PLOT NAME :

SHEET NO:

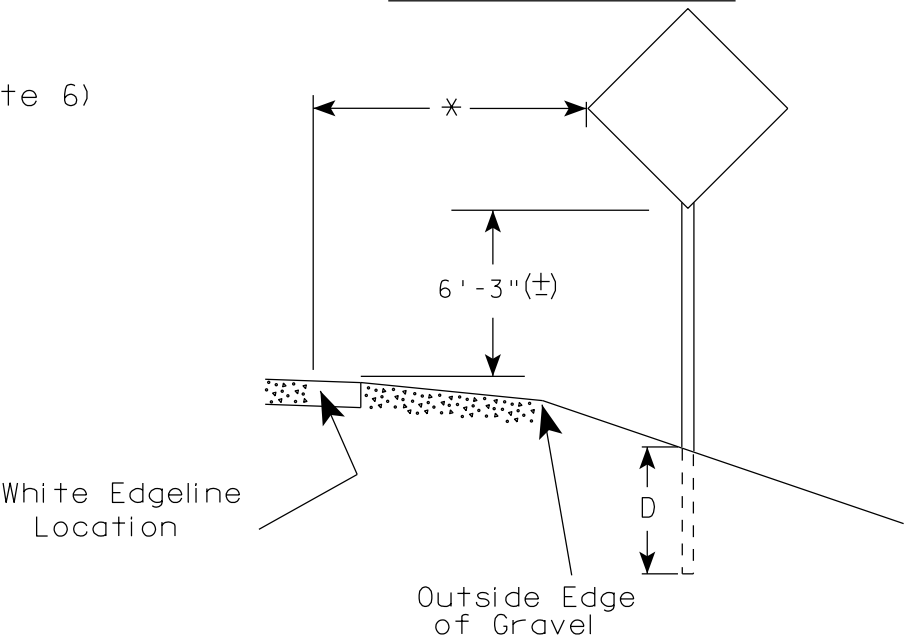
E

WISDOT/CADDs SHEET 42

URBAN AREA

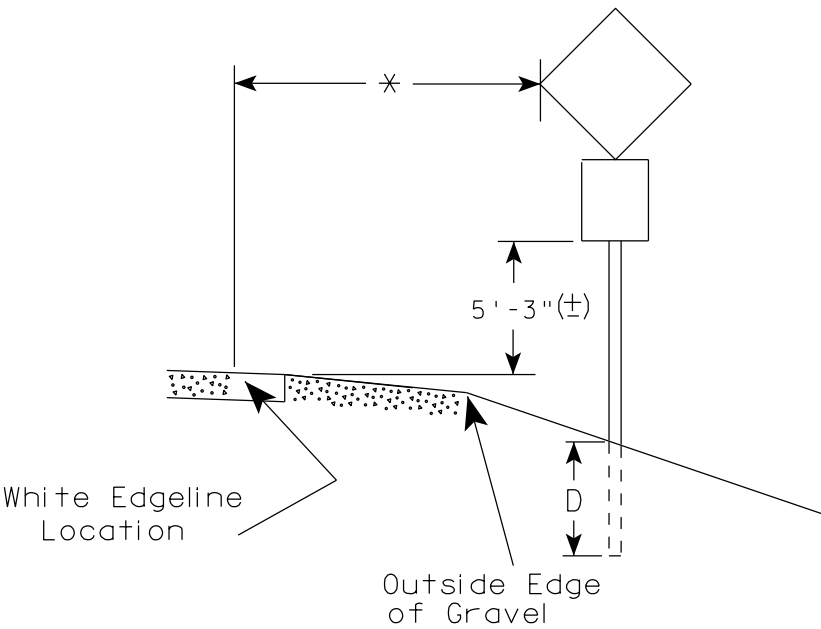
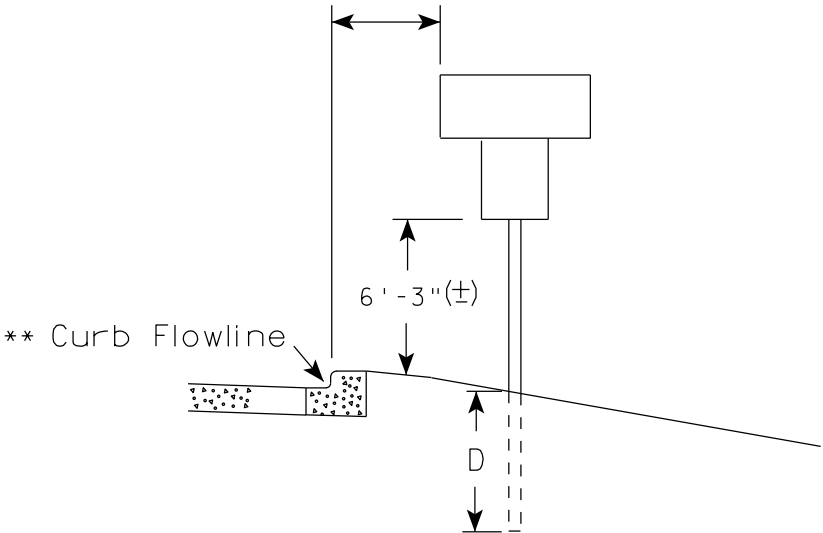


RURAL AREA (See Note 2)



- 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 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 (A2-1S) 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 signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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



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.

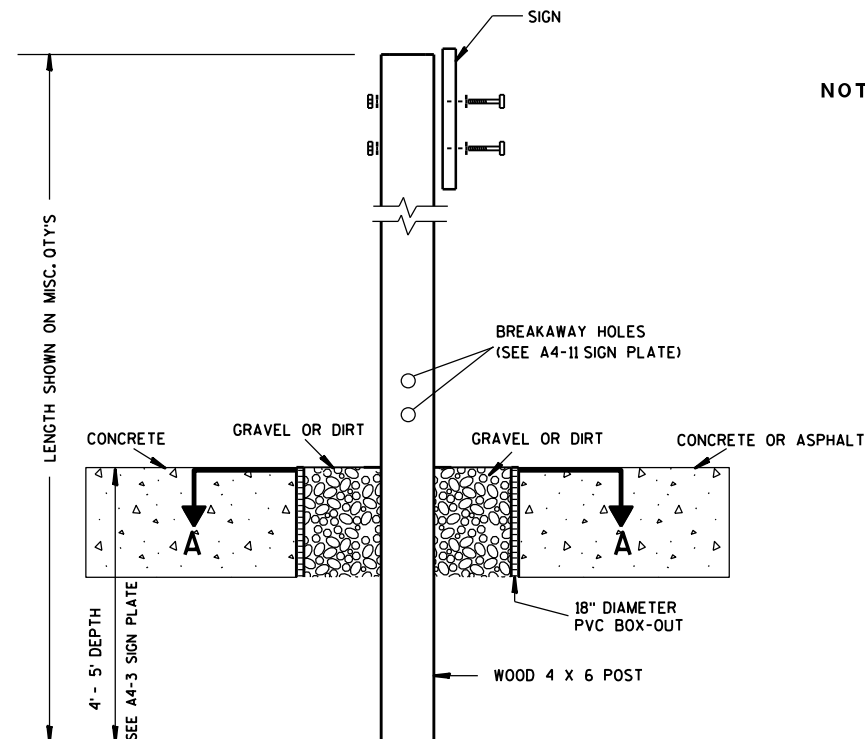
\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION  
OF PERMANENT TYPE II  
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
for State Traffic Engineer

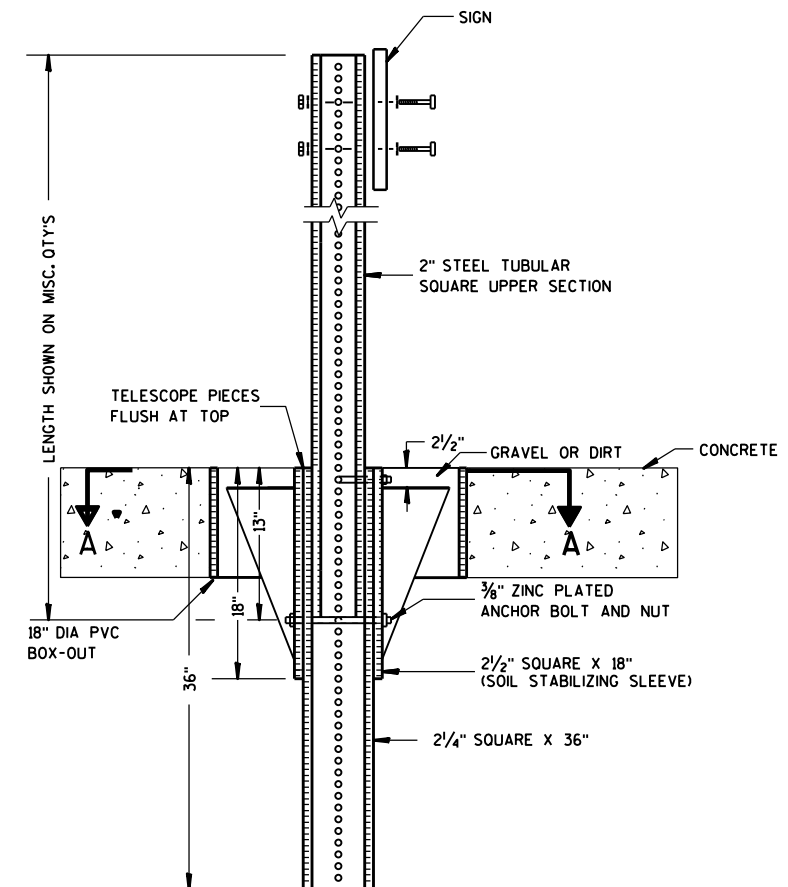
DATE 7/23/15 PLATE NO. A4-3.20



### ELEVATION VIEW

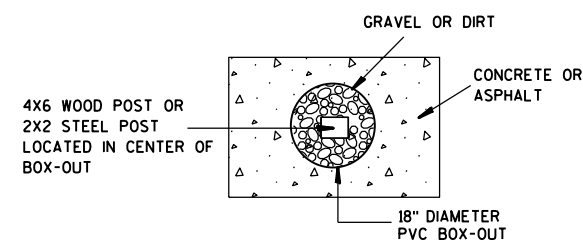
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

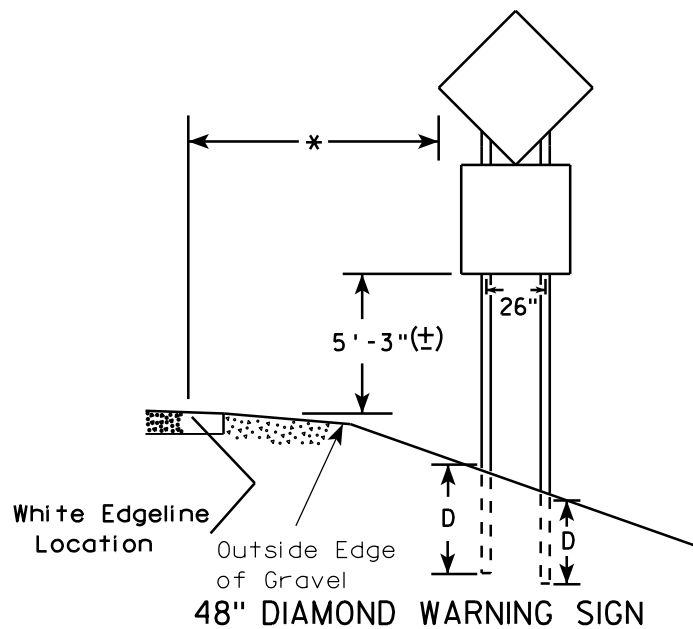
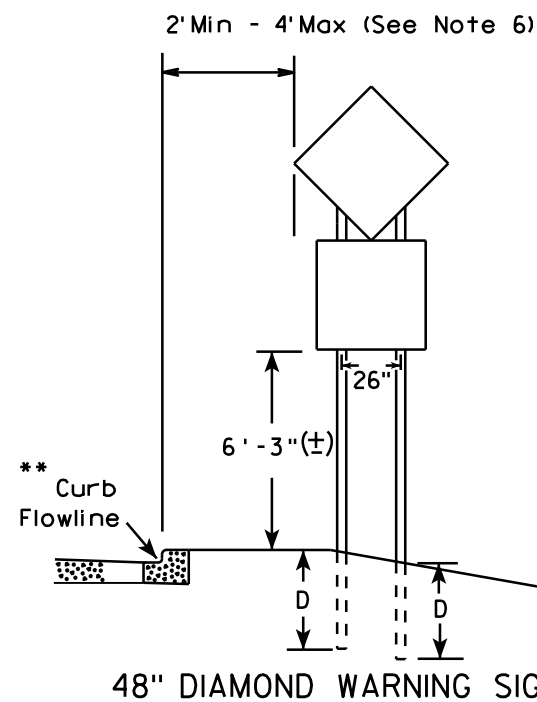
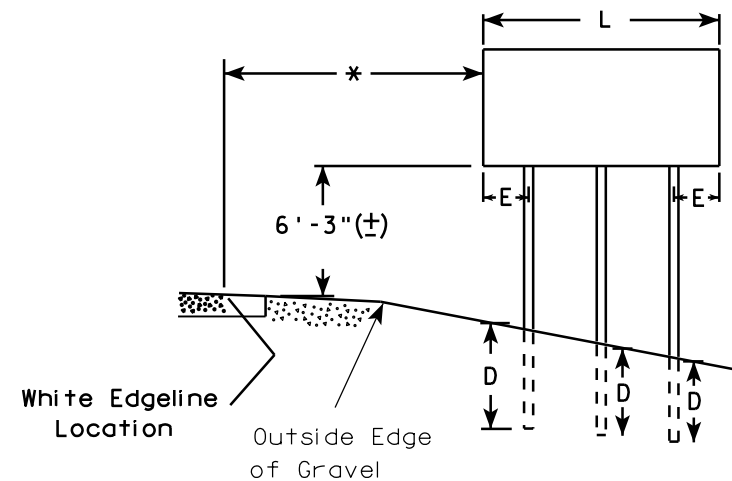
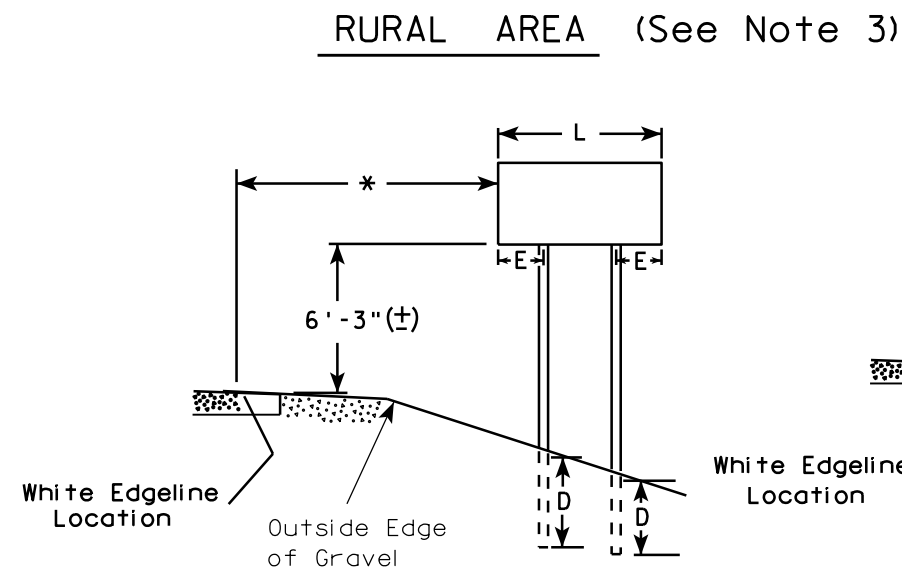
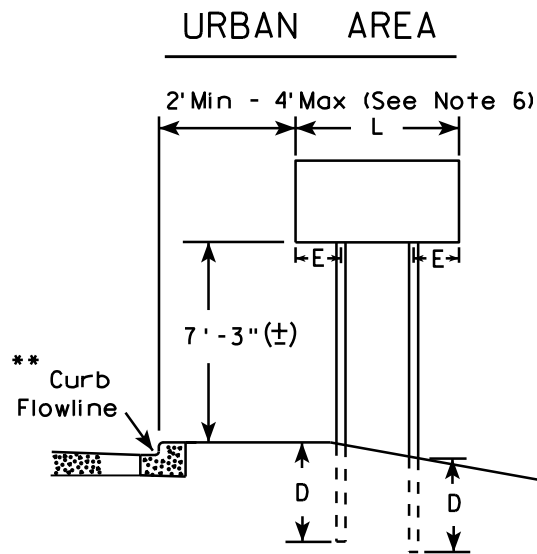
FOR NEW CONCRETE/ASPHALT INSTALLATIONS

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



- 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. Minimum mounting height for J assemblies (A2-1S) 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 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" (±).

\* 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<br>(TWO POSTS REQUIRED) |     |
|-------------------------------------------------------|-----|
| L                                                     | E   |
| Greater than 48"<br>Less than 60"                     | 12" |
| 60" to 120"                                           | L/5 |

| SIGN SHAPE OTHER THAN DIAMOND<br>(THREE POSTS REQUIRED) |     |
|---------------------------------------------------------|-----|
| L                                                       | E   |
| Greater than 120"<br>less than 168"                     | 12" |

| SIGN SHAPE OTHER THAN DIAMOND<br>(FOUR POSTS REQUIRED) |     |
|--------------------------------------------------------|-----|
| L                                                      | E   |
| 168" and greater                                       | 12" |

POST EMBEDMENT DEPTH

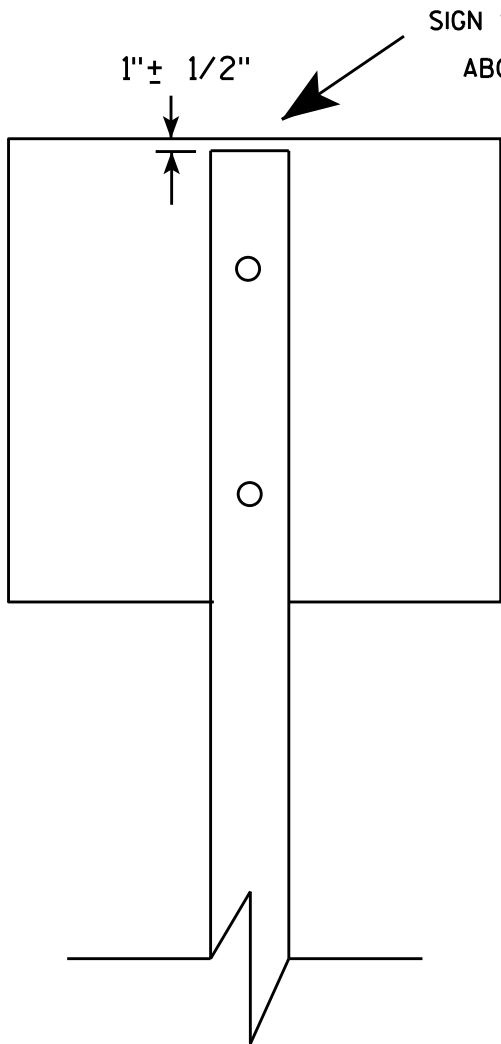
| Area of Sign<br>Installation<br>( Sq. Ft. ) | D<br>( Min ) |
|---------------------------------------------|--------------|
| 20 or Less                                  | 4'           |
| Greater than 20                             | 5'           |

TYPICAL INSTALLATION  
OF TYPE II SIGNS  
ON MULTIPLE POSTS

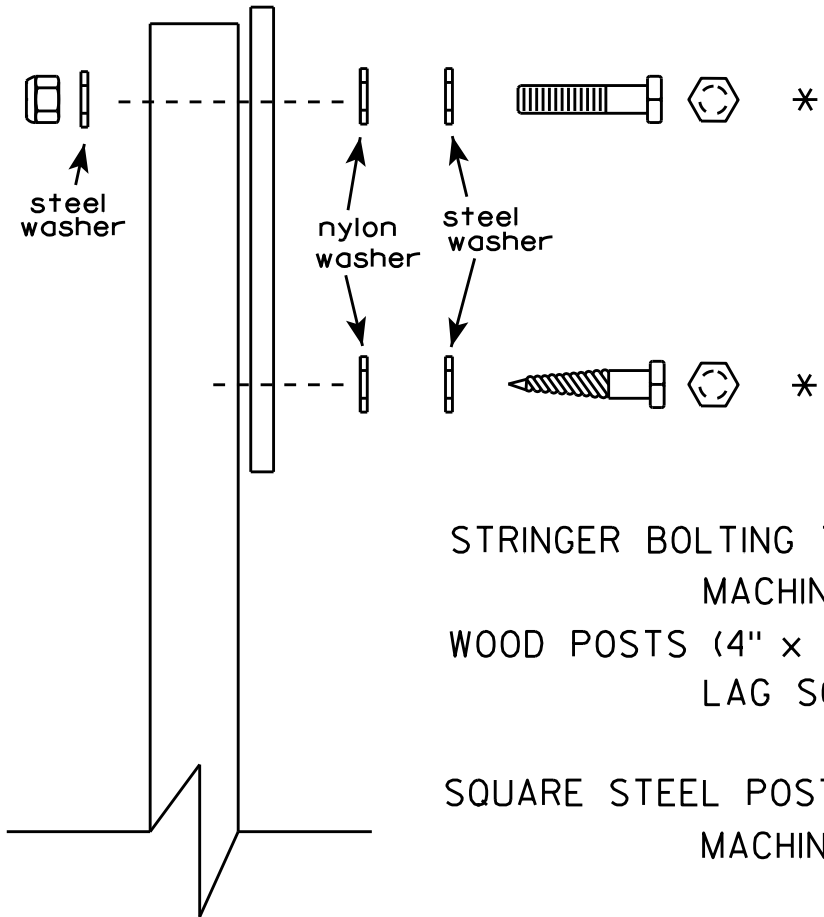
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4.14



SIGN SHALL BE MOUNTED TO PROJECT  
ABOVE THE TOP OF THE POST



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.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
  - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
  - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- 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

\* 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<br>TO POSTS  |                                                       |
| WISCONSIN DEPT OF TRANSPORTATION |                                                       |
| APPROVED                         | <i>Matthew R. Rauch</i><br>For State Traffic Engineer |
| DATE 4/27/16                     | PLATE NO. A4-8.8                                      |

**2 1/4" SQUARE  
12 GAUGE  
PERFORATED  
GALVANIZED FINISH**

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

2 1/2" TELES PAR TUBE

4"

2 1/2"

10"

1 1/2"

12 1/2"

4" x 10" x 10 GA. STEEL PLATE (CUT AS SHOWN) WELDED TO ALL FOUR CORNERS OF TELES PAR TUBE

[illegible]

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY.

**Side View Dimensions:**

- Overall height: LENGTH SHOWN ON MISC. QTY'S
- Section 1: 2" STEEL TUBULAR SQUARE UPPER SECTION
- Section 2: 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
- Section 3: 2 1/4" SQUARE X 36"
- Section 4: 36" (Total length of the bottom section)
- Section 5: 18"
- Section 6: 12"

**End View Details:**

- SIGN
- SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
- ALL HOLES 7/16" SPACED 1" C-C
- ALL FOUR SIDES
- 3/8" ZINC PLATED CORNER ANCHOR BOLT AND NUT
- 1"
- 3/8" ZINC PLATED ANCHOR BOLT AND NUT

**Other Labels:**

- TELESCOPE PIECES FLUSH AT TOP
- A
- B

3/8" ZINC PLATED CORNER  
ANCHOR BOLT AND NUT

DIRECTION  
OF TRAFFIC

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 2/05/15 PLATE NO. A4-9.9

PROJECT NO:

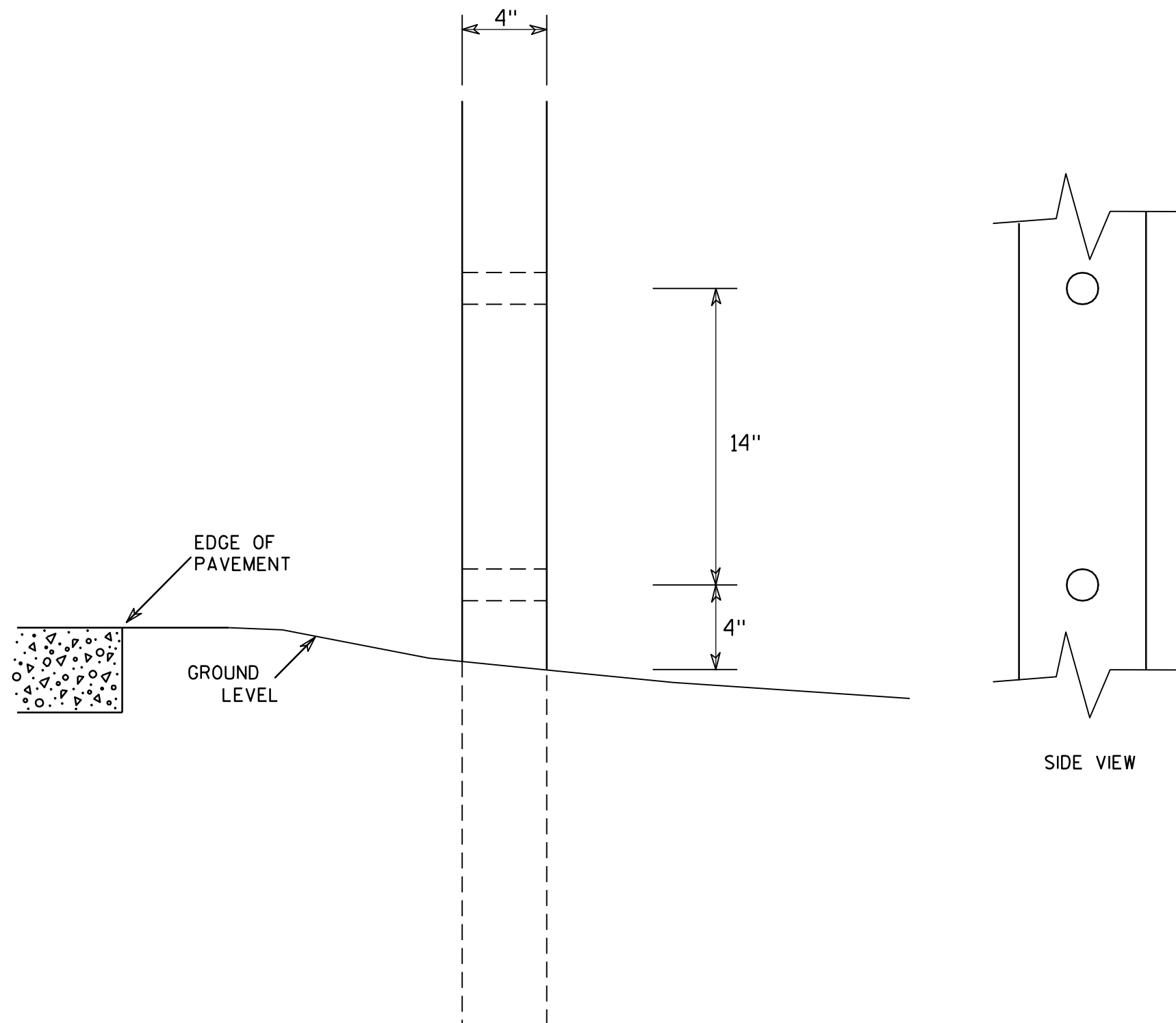
HWY:

COUNTY:

SHEET NO:

**T**

7



### 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

## 4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

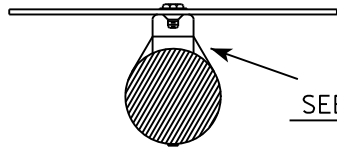
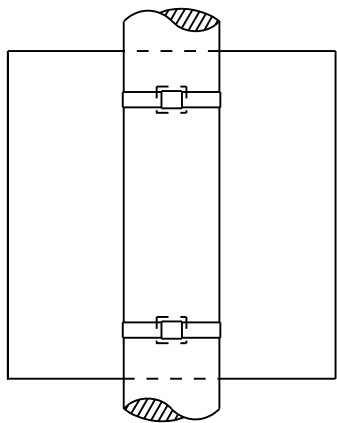
COUNTY:

SHEET NO:

E

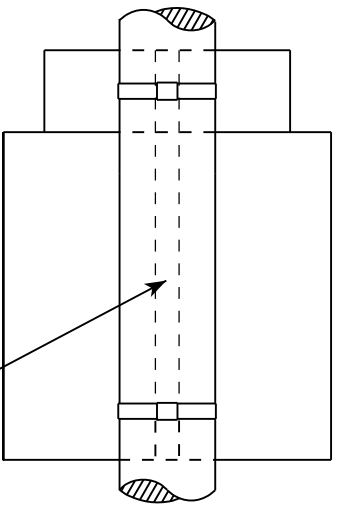
BANDING

SINGLE SIGN

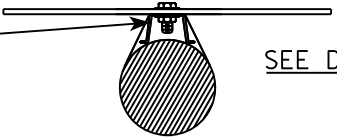


SEE DETAIL A

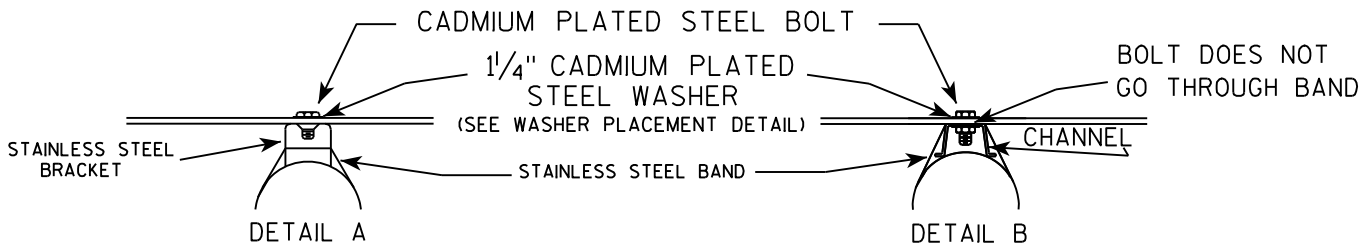
"J" ASSEMBLY



CHANNEL  
SEE TYPICAL PANEL  
INSTALLATION SHEET



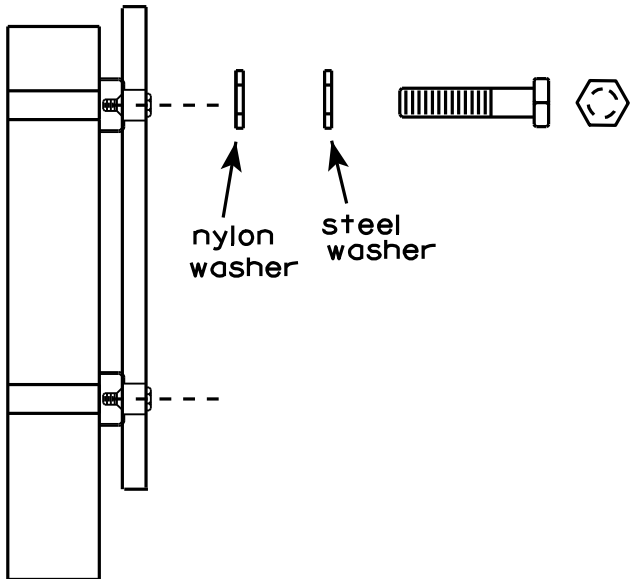
SEE DETAIL B



GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

WASHER PLACEMENT



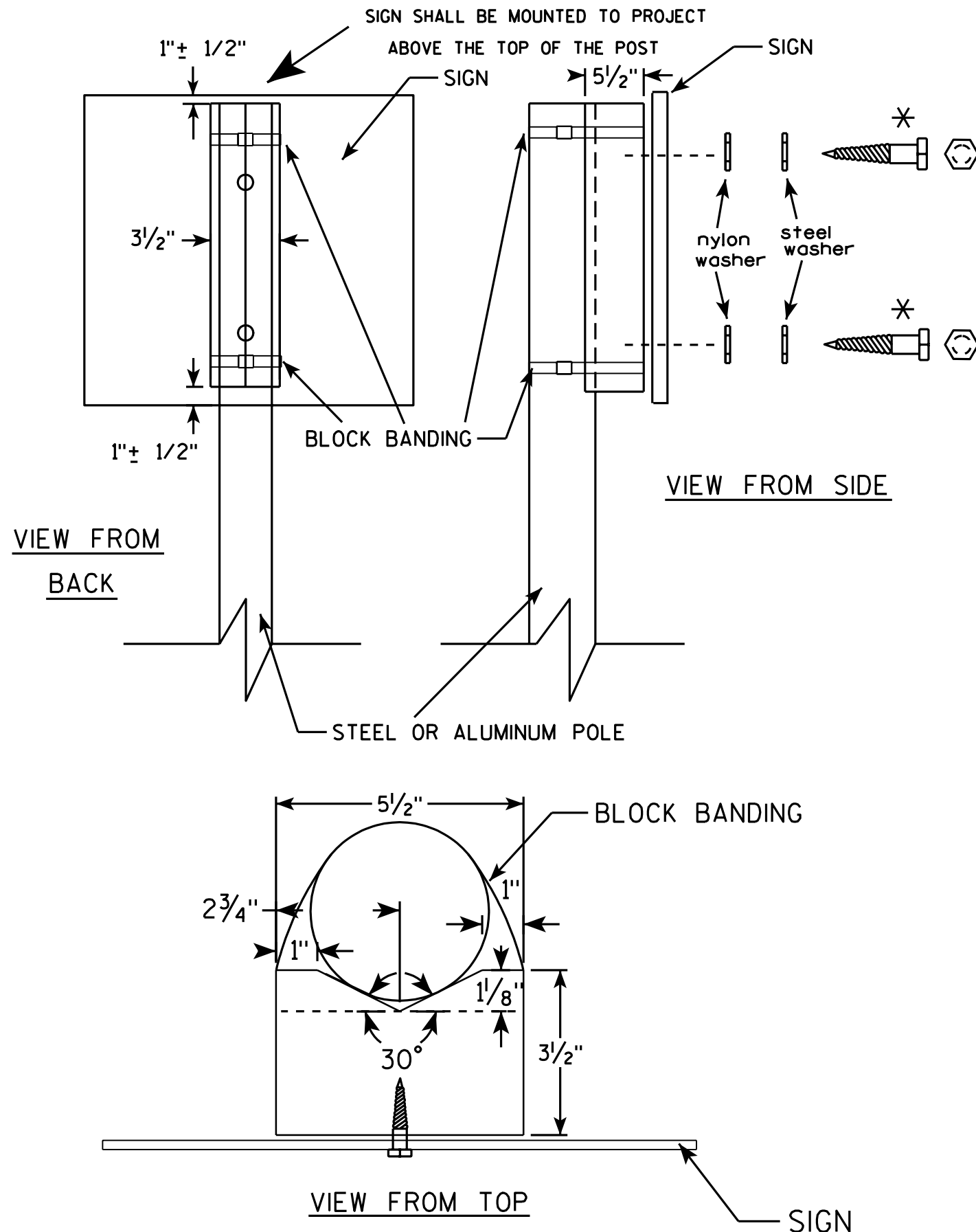
WASHERS (ALL POSTS) -  
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL  
1-1/4" O.D. X 3/8" I.D. X .080 NYLON  
FOR ALL TYPE H SIGNS

STANDARD SIGN  
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3



## GENERAL NOTES

1. WOOD 4"x6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
  - b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
  - c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"

BLOCK BANDING DETAIL  
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

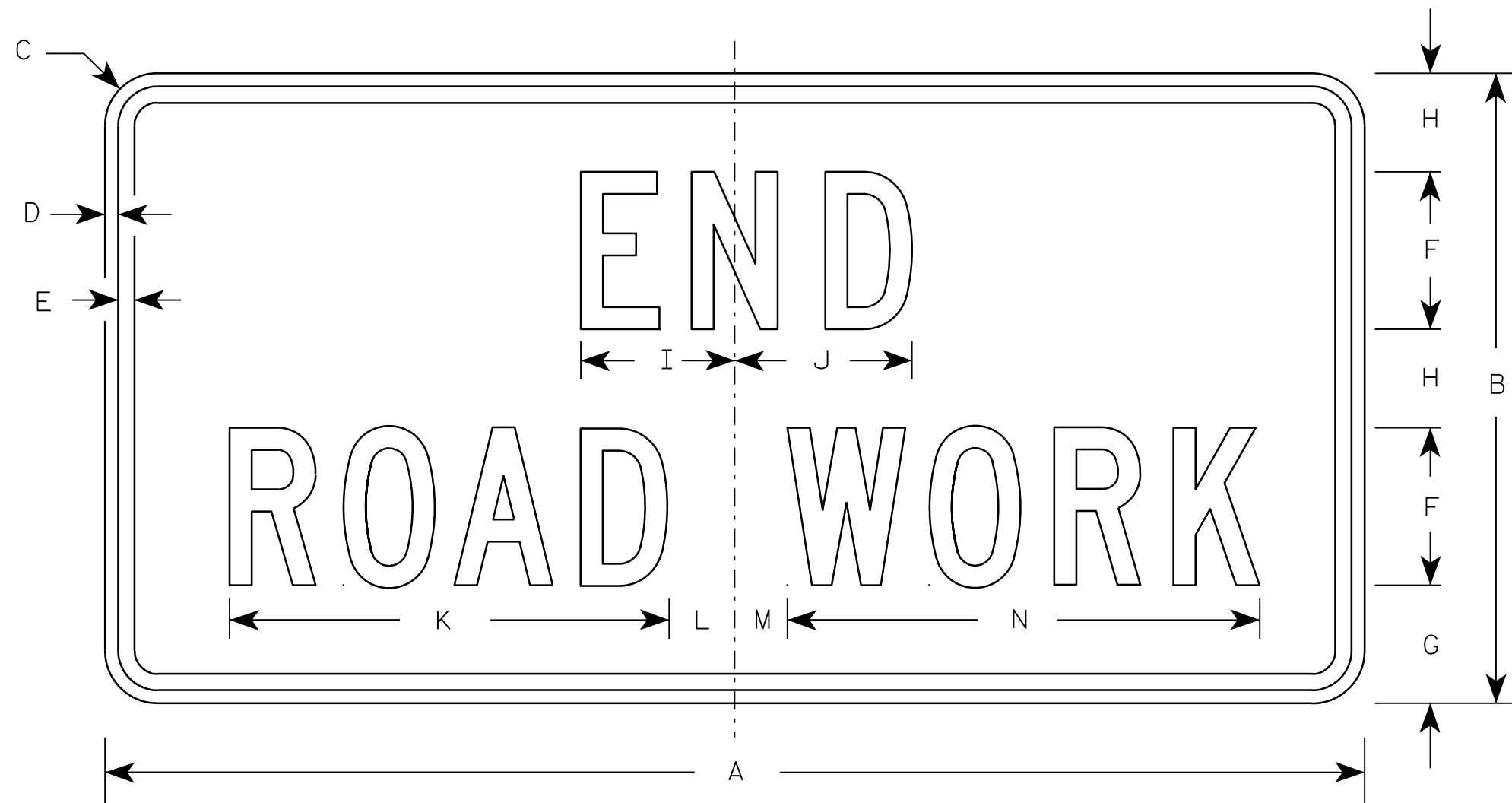
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO:

E

7



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Orange  
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.

Metric equivalent  
for this sign is:

| SIZE |                  |
|------|------------------|
| 1    | 900 mm X 450 mm  |
| 2    | 1200 mm X 600 mm |
| 3    | 1200 mm X 600 mm |
| 4    | 1200 mm X 600 mm |
| 5    | 1200 mm X 600 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<br>sq. ft. | Area<br>m <sup>2</sup> |
|------|----|----|-------|-----|-----|---|-------|-------|-------|-------|--------|-------|-------|--------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|------------------------|
| 1    | 36 | 18 | 1 1/8 | 3/8 | 1/2 | 4 | 3 3/4 | 2 1/2 | 4 1/8 | 4 1/8 | 11 1/8 | 2     | 1     | 12 1/8 |   |   |   |   |   |   |   |   |   |   |   |   | 4.5             | 0.41                   |
| 2    | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             | 0.72                   |
| 3    | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             | 0.72                   |
| 4    | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             | 0.72                   |
| 5    | 48 | 24 | 1 1/2 | 1/2 | 5/8 | 6 | 4 1/2 | 3 3/4 | 5 7/8 | 6 3/4 | 16 3/4 | 2 1/2 | 1 3/4 | 18 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             | 0.72                   |

STANDARD SIGN  
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

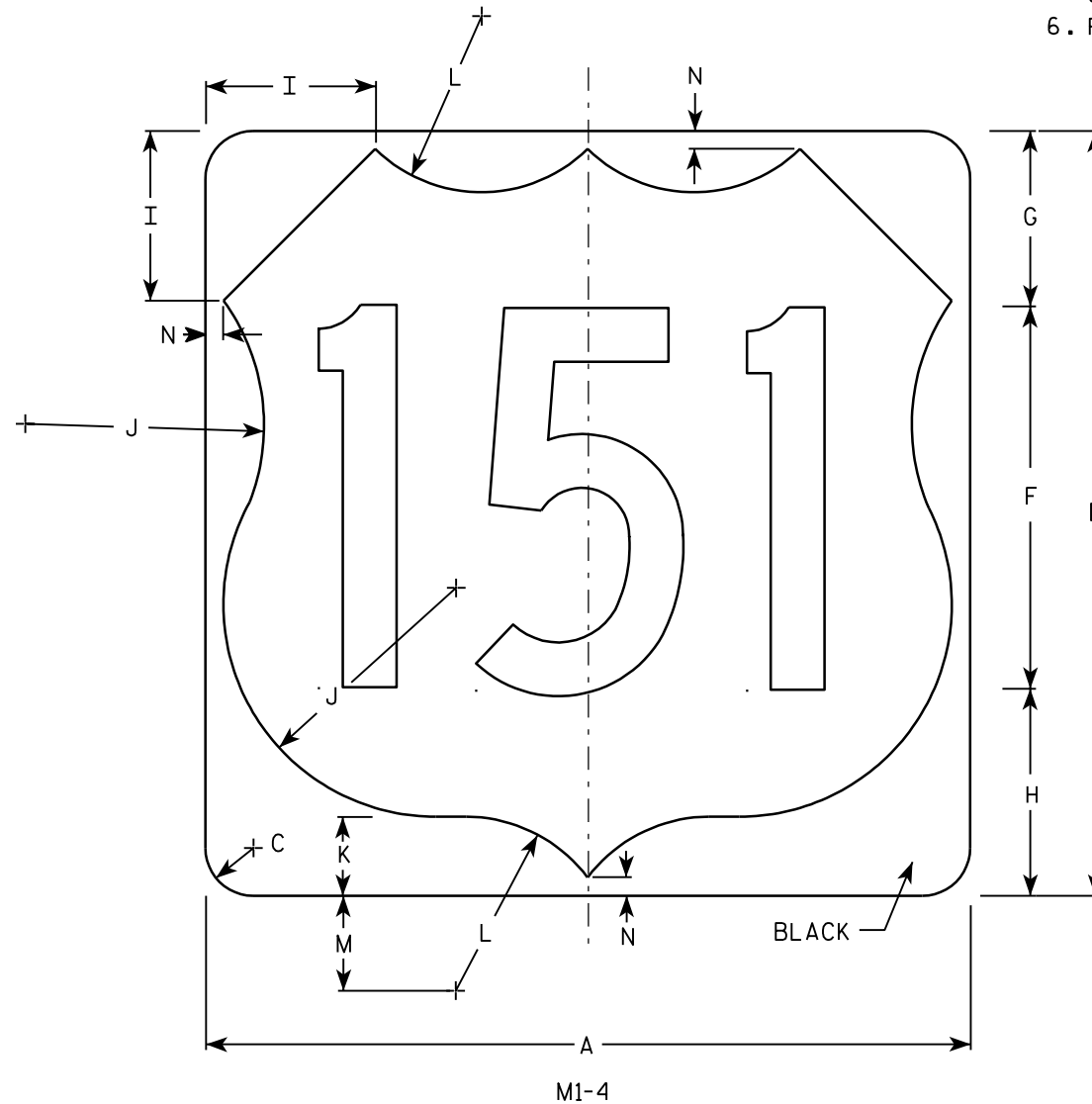
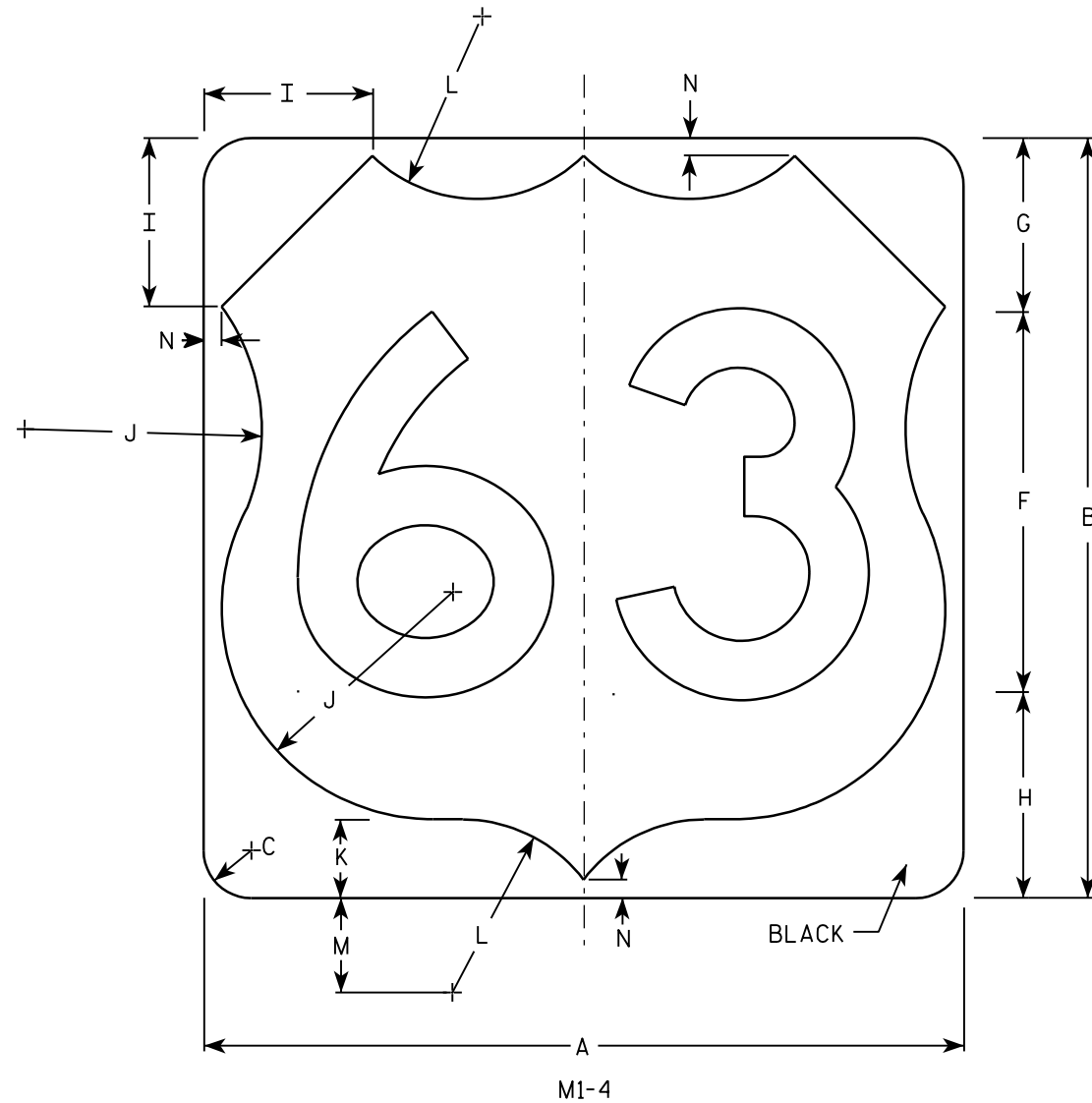
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

7

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



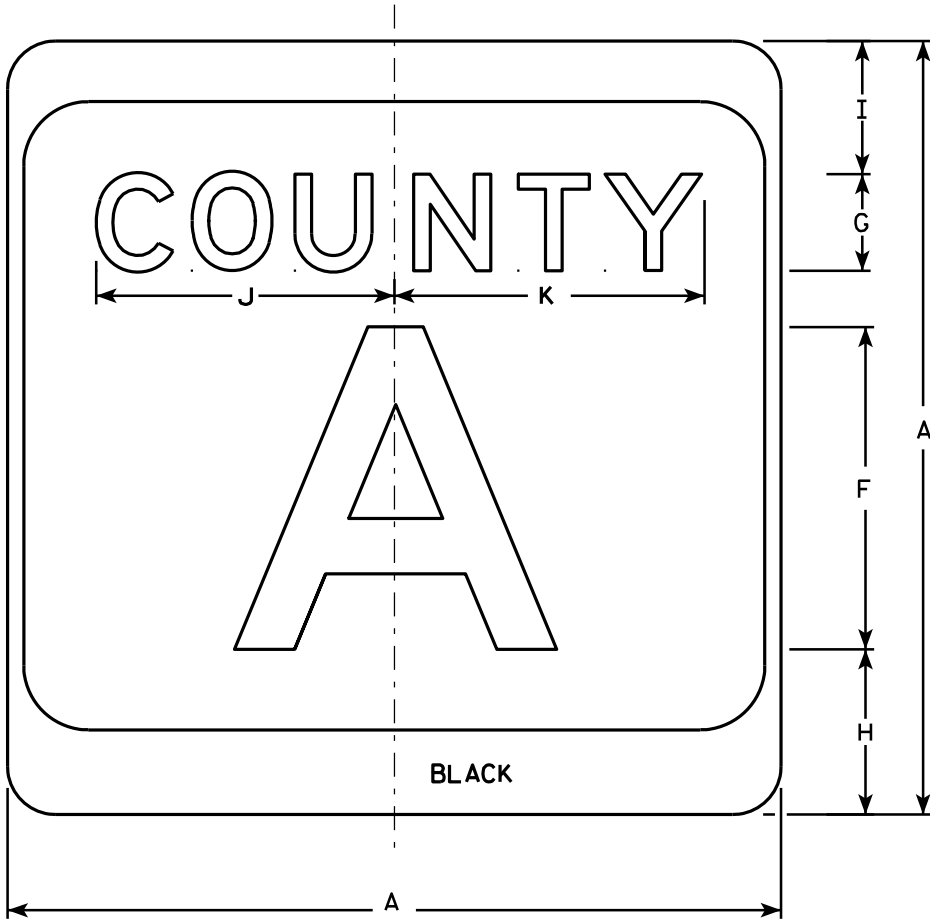
Metric equivalent  
for this sign is:

| 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 |

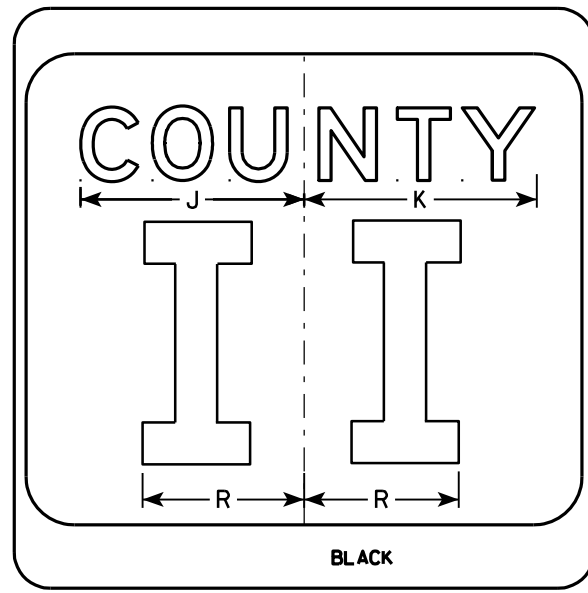
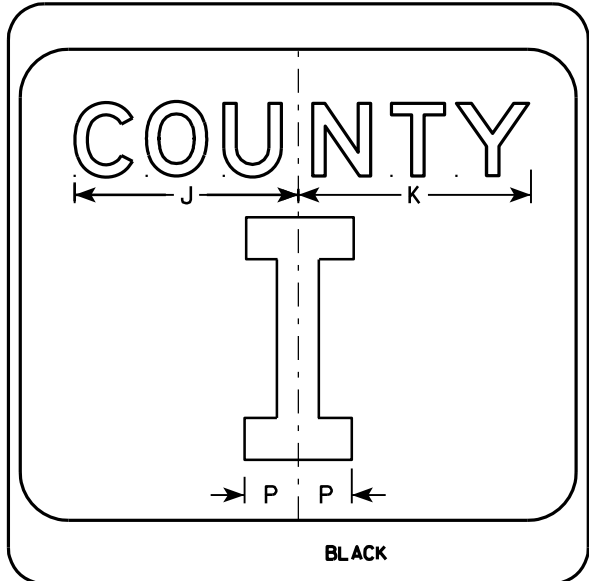
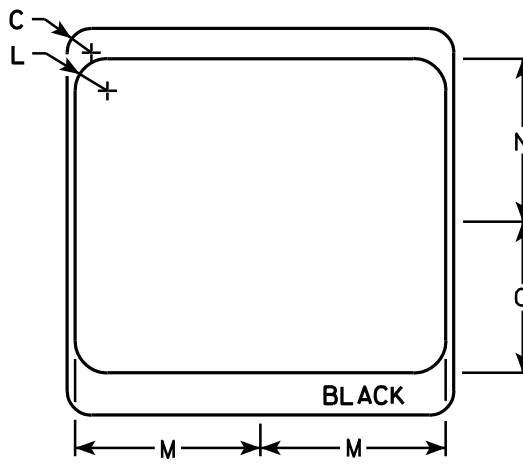
| SIZE | A  | B  | C     | D | E | F  | G     | H     | I     | J      | K     | L     | M     | N   | O | P | Q | R | S | T | U | V | W | X | Y | Z | Areq<br>sq. ft. | Areq<br>m <sup>2</sup> |
|------|----|----|-------|---|---|----|-------|-------|-------|--------|-------|-------|-------|-----|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|------------------------|
| 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                    |

PROJECT NO: HWY: COUNTY: SHEET NO: E

7



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<br>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:

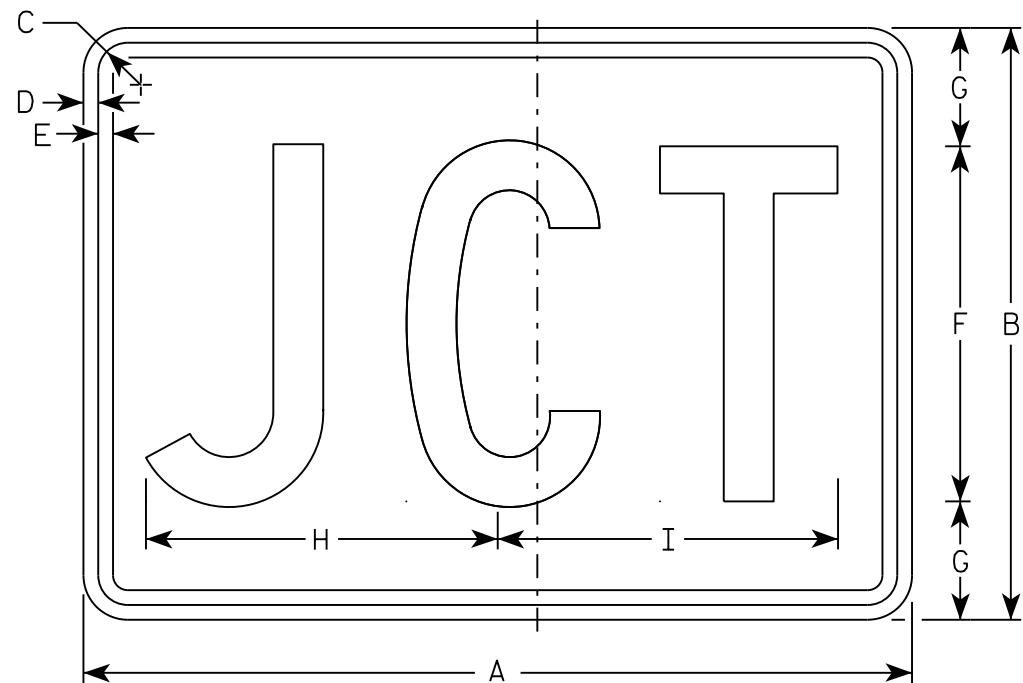
HWY:

COUNTY:

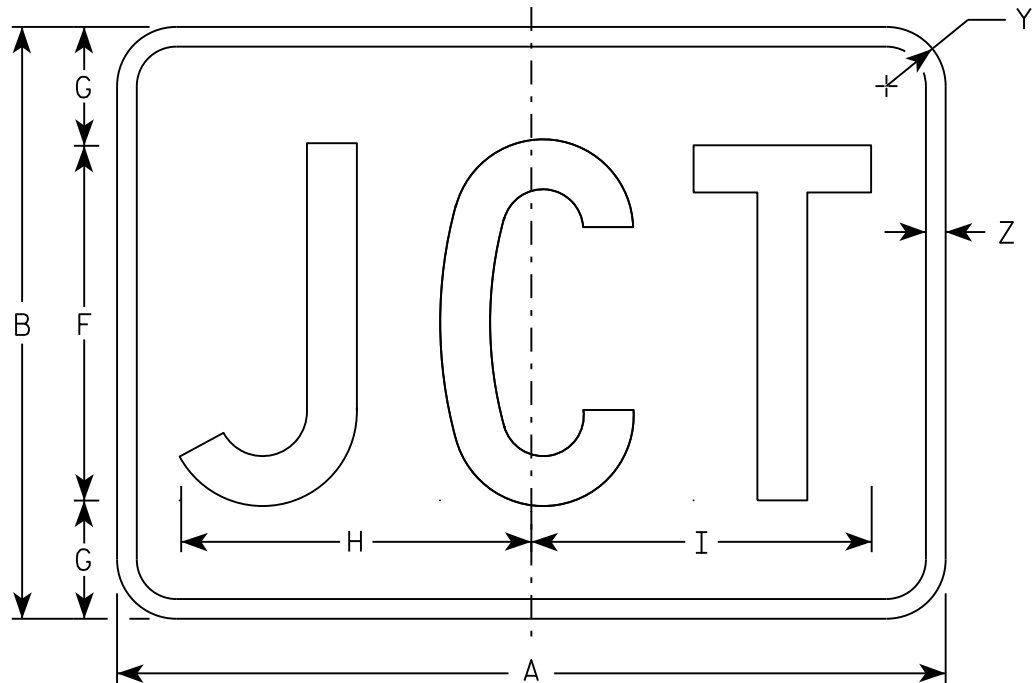
SHEET NO:

E

7



M2-1  
MM2-1  
MP2-1



MB2-1  
MK2-1  
MN2-1  
MR2-1

NOTES

- 1. Sign is Type II - Type H
- 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  
    Message - Black  
    MB2-1 Background - Blue  
    Message - White  
    MK2-1 Background - Green  
    Message - White  
    MM2-1 Background - White  
    Message - Green  
    MN2-1 Background - Brown  
    Message - White  
    MP2-1 Background - White  
    Message - Blue  
    MR2-1 Background - Brown  
    Message - Yellow

| 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<br>sq. ft. |
|------|----|----|-------|-----|-----|----|---|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-----|-----------------|
| 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            |
| 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            |
| 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            |
| 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            |

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

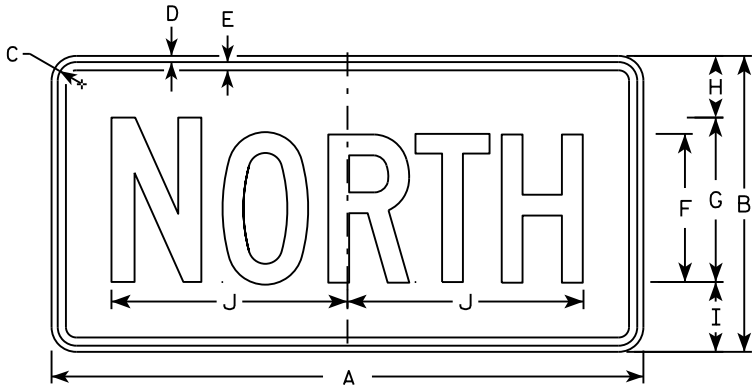
APPROVED

Matthew R. Rauch

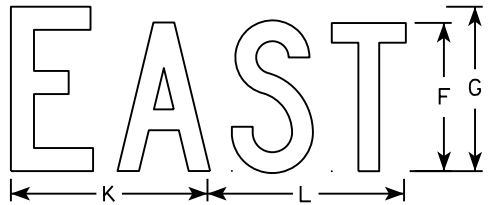
For State Traffic Engineer

DATE 10/15/15

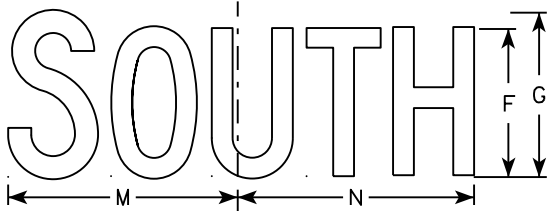
PLATE NO. M2-1.12



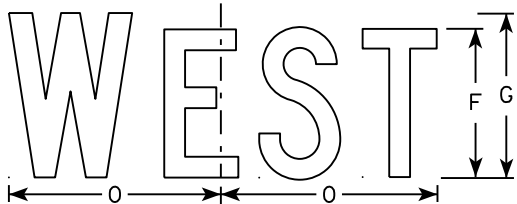
M3-1  
MM3-1  
MP3-1



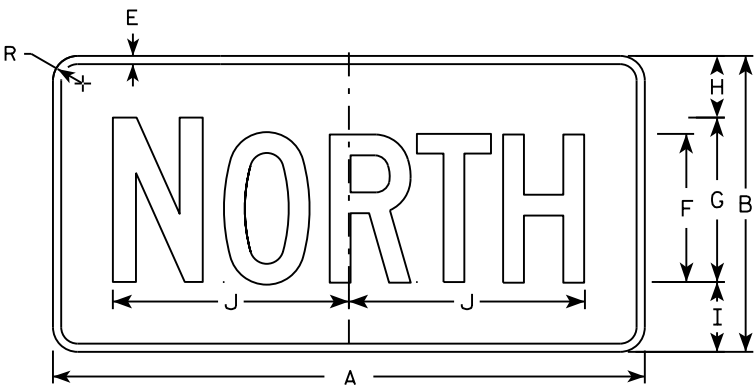
M3-2  
MM3-2  
MP3-2



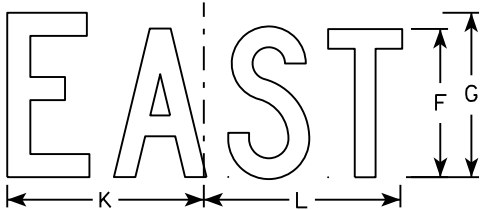
M3-3  
MM3-3  
MP3-3



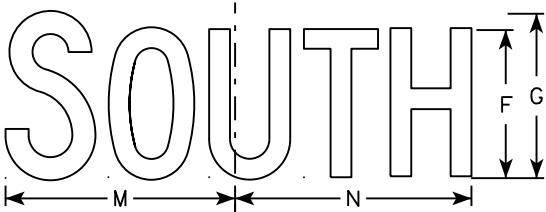
M3-4  
MM3-4  
MP3-4



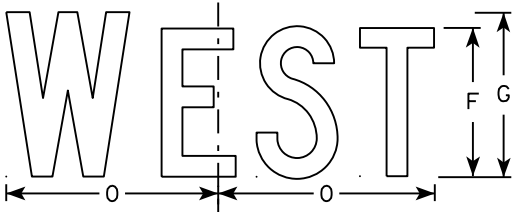
MB3-1  
MK3-1  
MN3-1



MB3-2  
MK3-2  
MN3-2



MB3-3  
MK3-3  
MN3-3



MB3-4  
MK3-4  
MN3-4

NOTES

1. All Signs Type II - Type H
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  
Message - Black  
MB3-1 thru MB3-4 Background - Blue  
Message - White  
MK3-1 thru MK3-4 Background - Green  
Message - White  
MM3-1 thru MM3-4 Background - White  
Message - Green  
MN3-1 thru MN3-4 Background - Brown  
Message - White  
MP3-1 thru MP3-4 Background - White  
Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

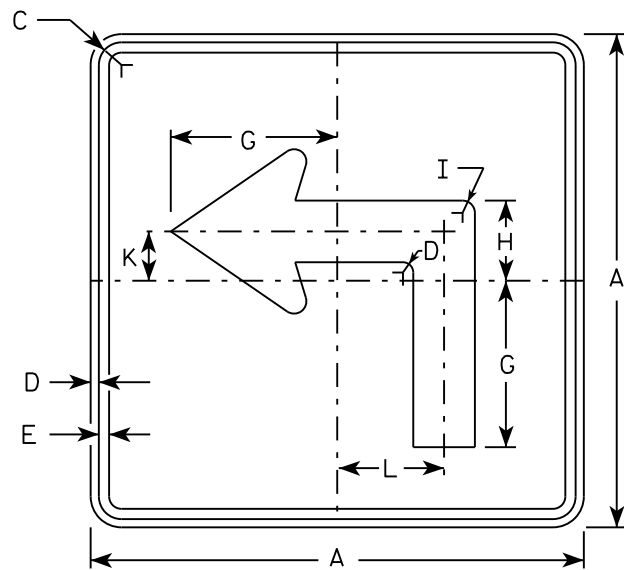
| SIZE | A  | B  | C     | D   | E   | F | G  | H     | I     | J      | K     | L      | M      | N      | O     | P | Q | R     | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|----|-------|-----|-----|---|----|-------|-------|--------|-------|--------|--------|--------|-------|---|---|-------|---|---|---|---|---|---|---|---|-----------------|
| 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 thru M3-4  
SERIES

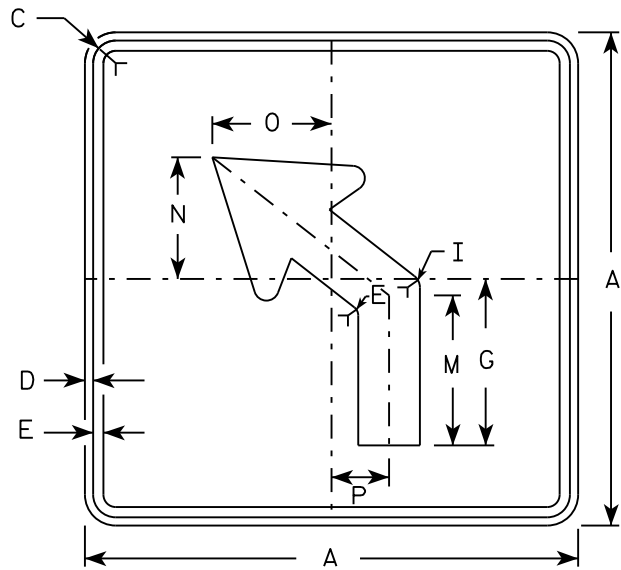
WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
for State Traffic Engineer

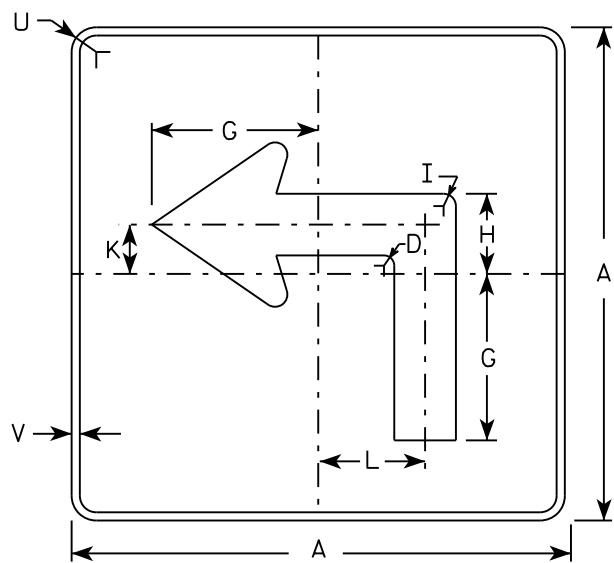
DATE 10/15/15 PLATE NO. M3-1.14



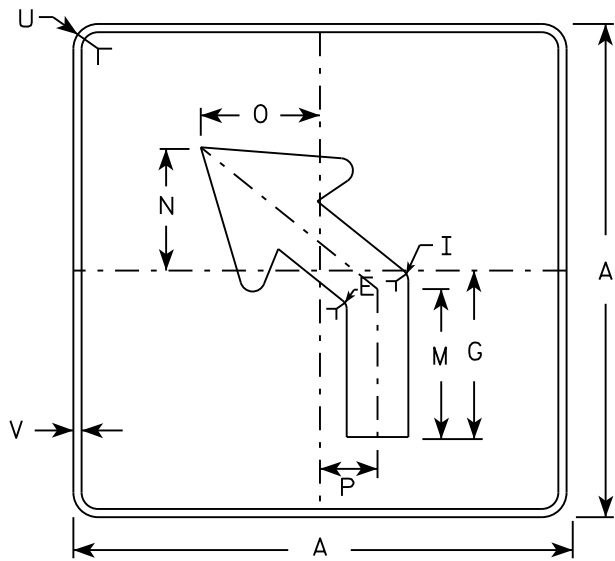
M5-1L  
MM5-1L  
M05-1L  
MP5-1L



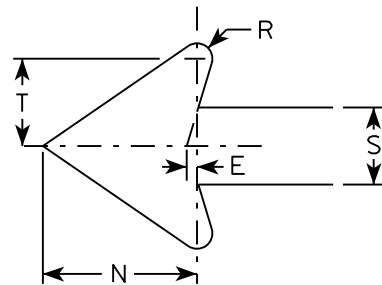
M5-2L  
MM5-2L  
M05-2L  
MP5-2L



MB5-1L  
MK5-1L  
MN5-1L  
MR5-1L



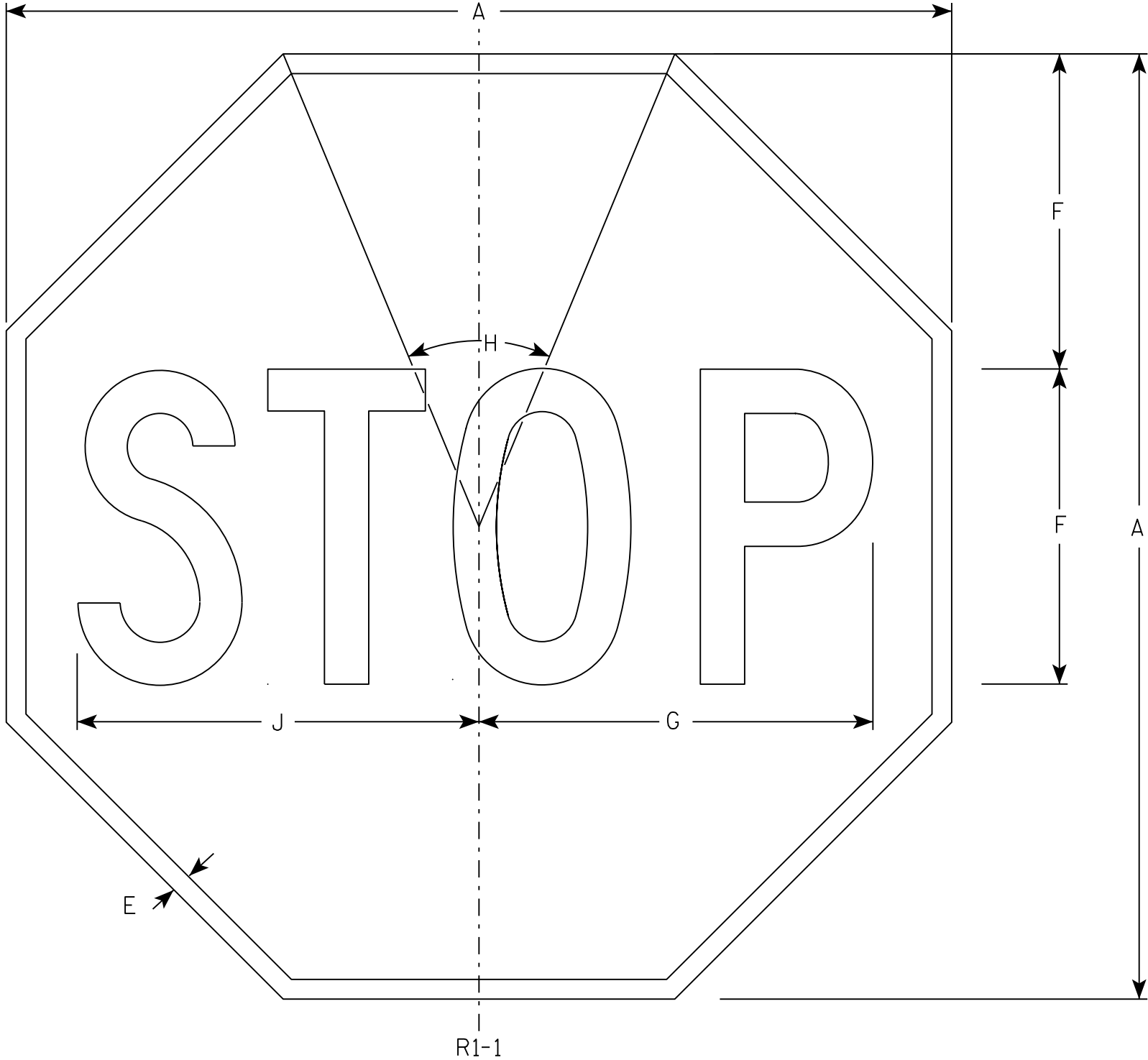
MB5-2L  
MK5-2L  
MN5-2L  
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:  
Background - See note 4  
Message - See note 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.
- |                 |                                         |
|-----------------|-----------------------------------------|
| M5-1 and M5-2   | Background - White                      |
|                 | Message - Black                         |
| MB5-1 and MB5-2 | Background - Blue                       |
|                 | Message - White                         |
| MK5-1 and MK5-2 | Background - Green                      |
|                 | Message - White                         |
| MM5-1 and MM5-2 | Background - White                      |
|                 | Message - Green                         |
| MN5-1 and MN5-2 | Background - Brown                      |
|                 | Message - White                         |
| M05-1 and M05-2 | Background - Orange - Type F Reflective |
|                 | Message - Black                         |
| MP5-1 and MP5-2 | Background - White - Type H Reflective  |
|                 | Message - Blue                          |
| MR5-1 and MR5-2 | Background - Brown                      |
|                 | Message - Yellow                        |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

| 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<br>sq. ft. |
|------|----|---|-------|-----|-----|---|--------|-------|-----|---|-------|-------|-------|-------|-------|-------|---|-----|-------|-------|-------|-----|---|---|---|---|-----------------|
| 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            |
| 3    | 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            |
| 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            |
| 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            |



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<br>sq. ft. |
|------|----|---|---|---|-----|----|--------|-----|---|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    | 30 |   |   |   | 5/8 | 10 | 12 1/2 | 45° |   | 12 3/4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5.18            |
| 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            |

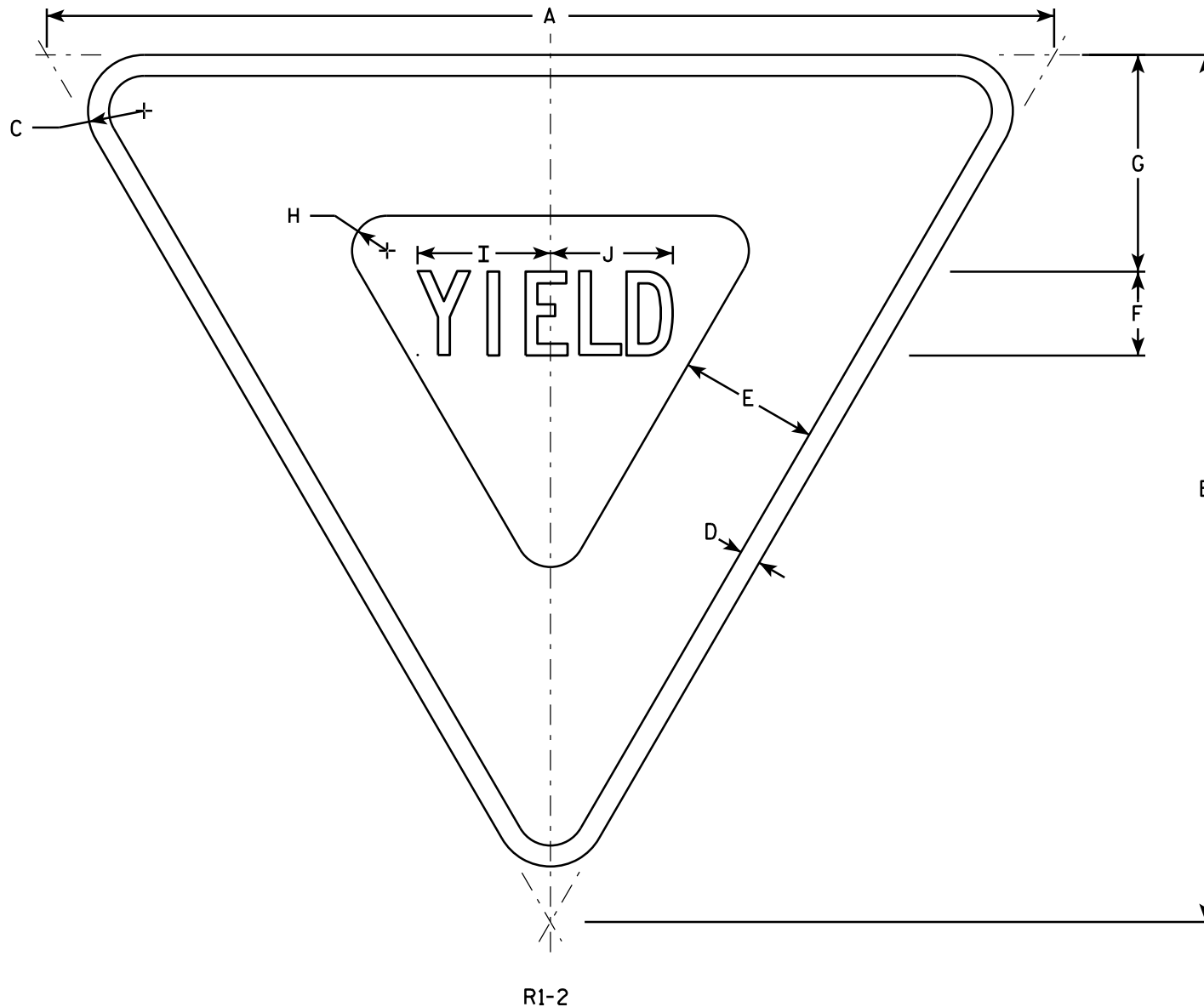
STANDARD SIGN

R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13



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.

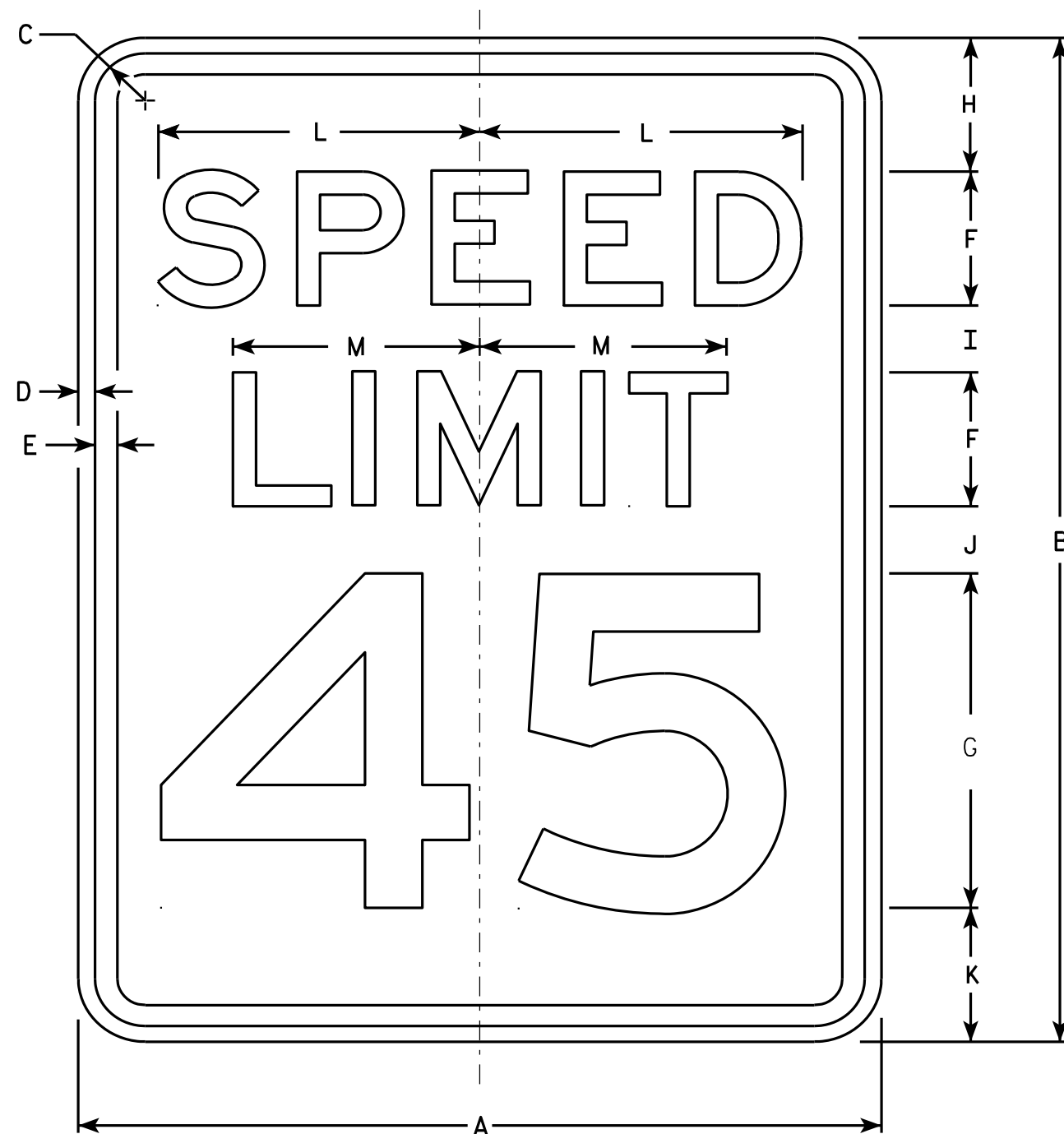
| SIZE | A  | B      | C     | D     | E     | F     | G     | H     | I     | J     | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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    |    |        |       |       |       |       |       |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 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 10/13/14 PLATE NO. R1-2.12



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<br>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

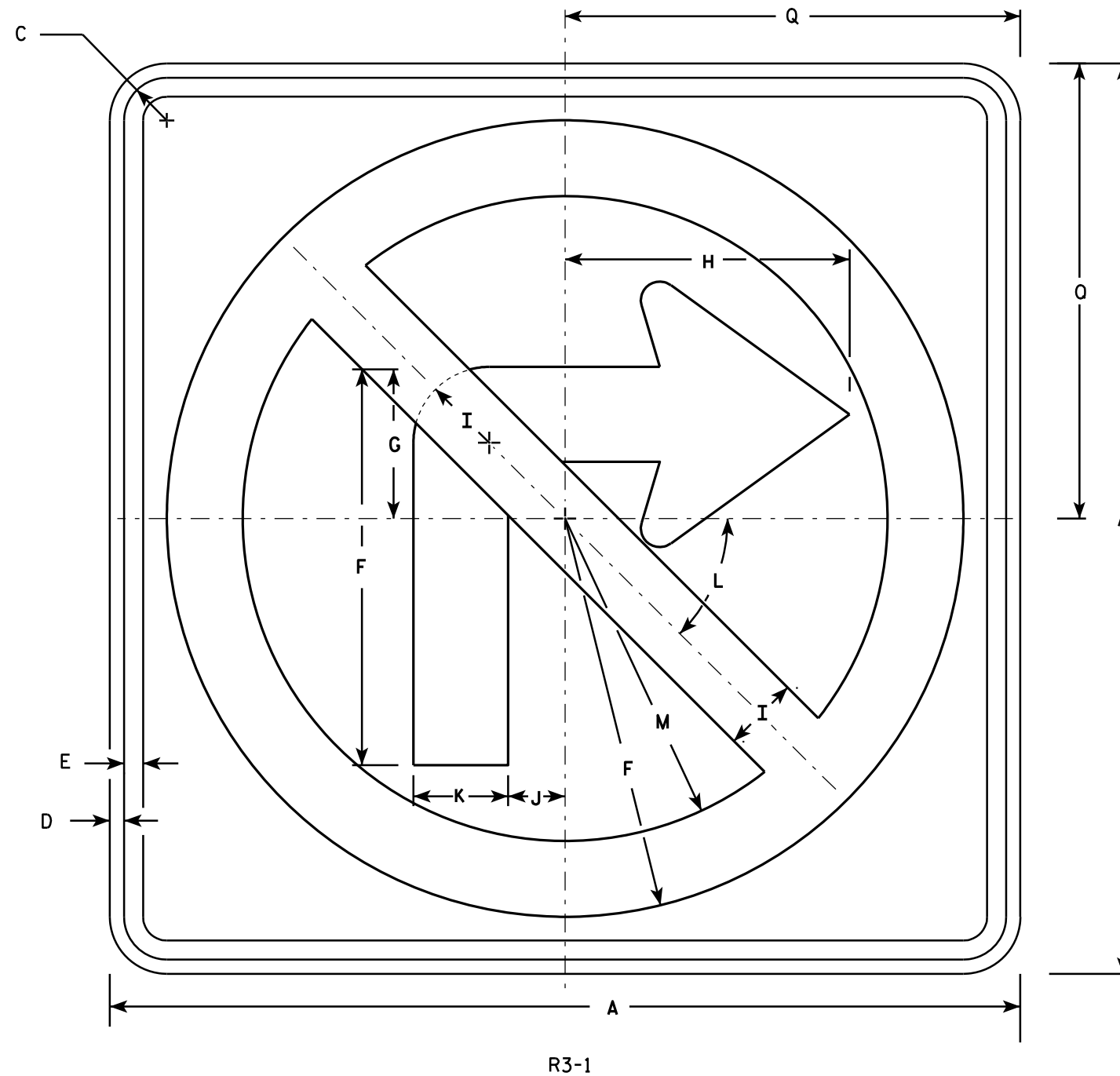
PROJECT NO:

HWY:

COUNTY:

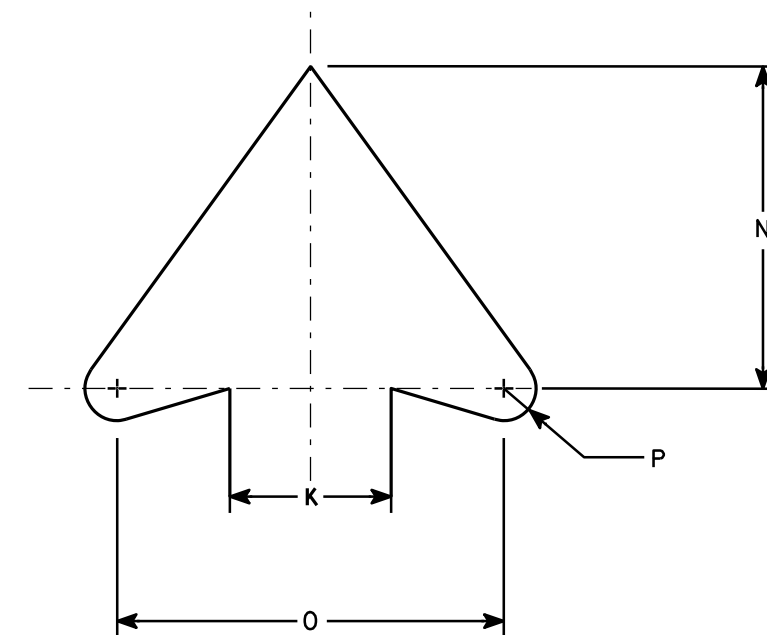
SHEET NO:

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 - 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<br>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

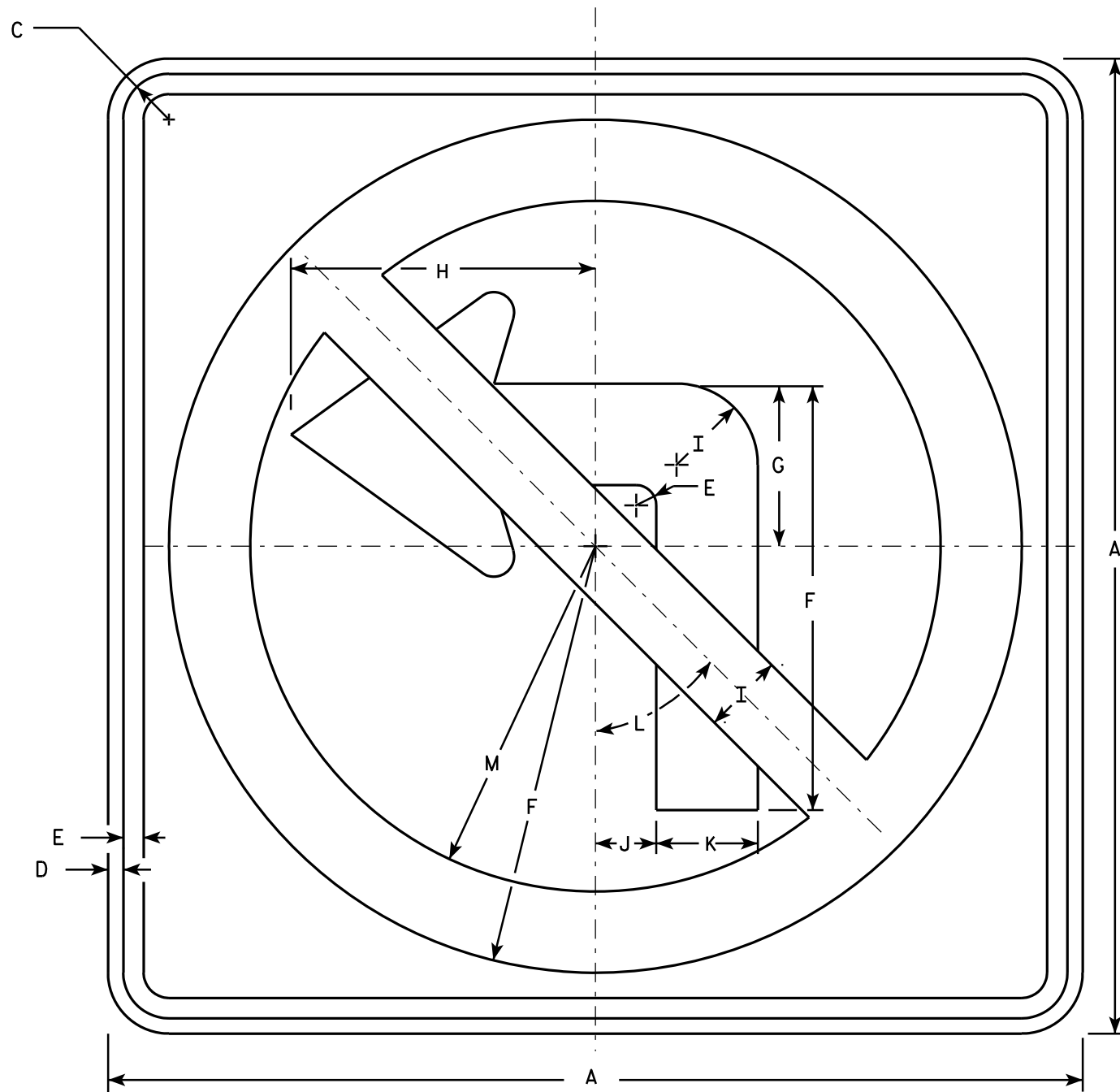
PROJECT NO:

HWY:

COUNTY:

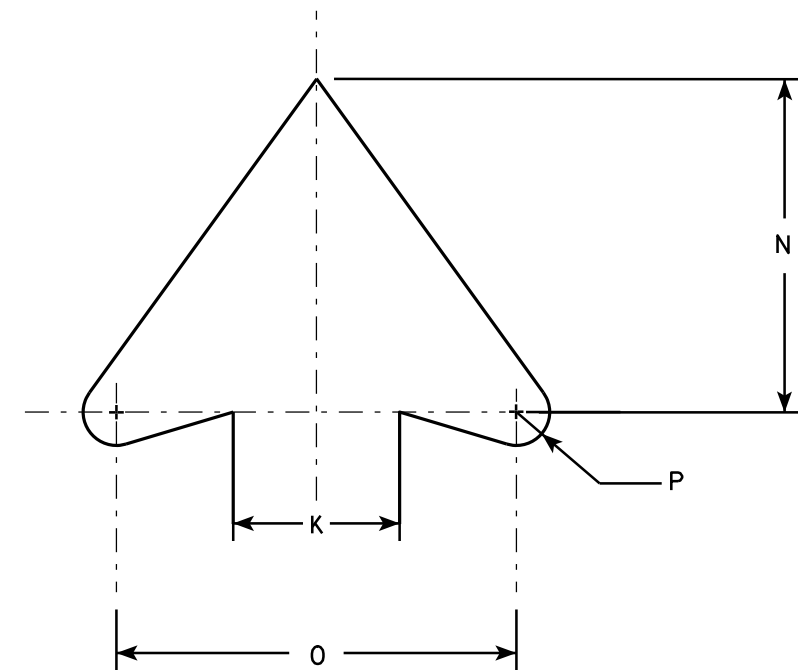
SHEET NO:

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.

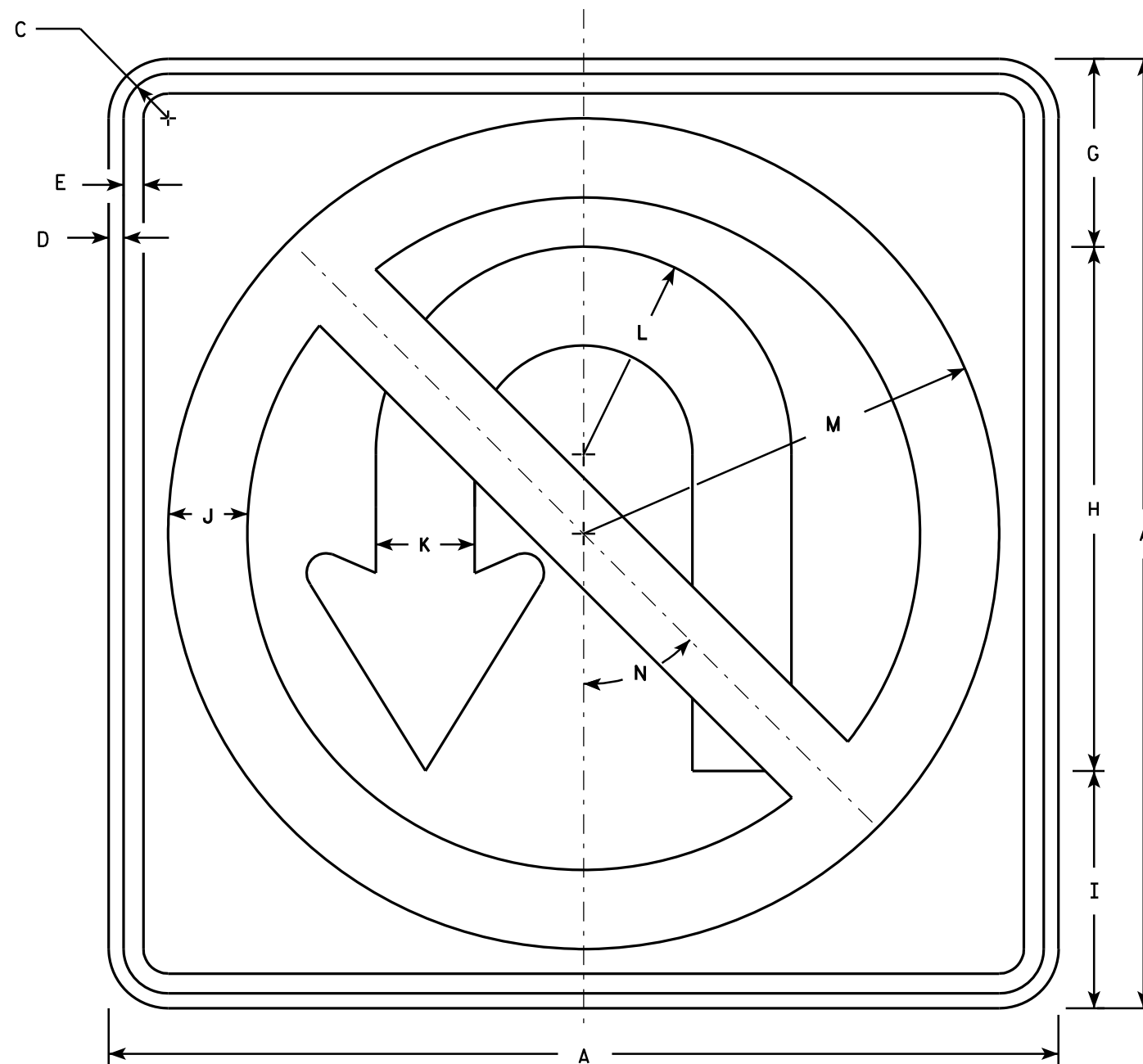


ARROW DETAIL

| SIZE | A  | B | C     | D   | E   | F      | G | H      | I | J     | K     | L   | M      | N     | O  | P   | O | R | S | T | U | V | W | X | Y | Z | Area<br>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            |

PROJECT NO: HWY: COUNTY: SHEET NO: E

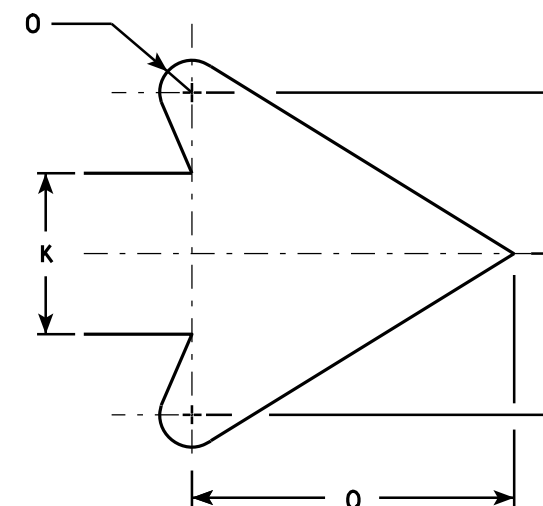
|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| STANDARD SIGN<br>R3-2            |                                                       |
| WISCONSIN DEPT OF TRANSPORTATION |                                                       |
| APPROVED                         | <i>Matthew R. Rauch</i><br>for State Traffic Engineer |
| DATE 12/08/10                    | PLATE NO. R3-2.10                                     |



R3-4

### 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 - 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.

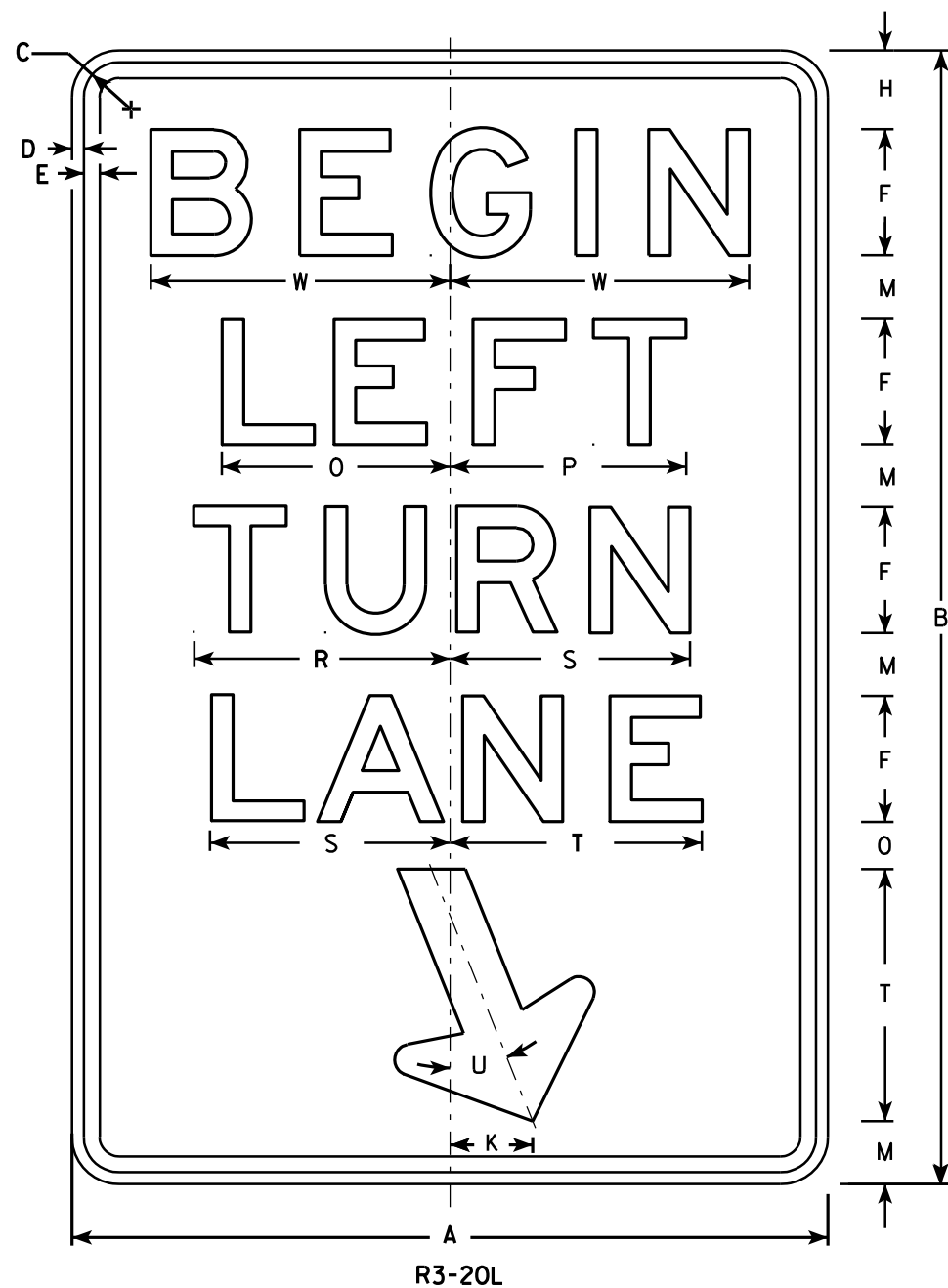


ARROW DETAIL

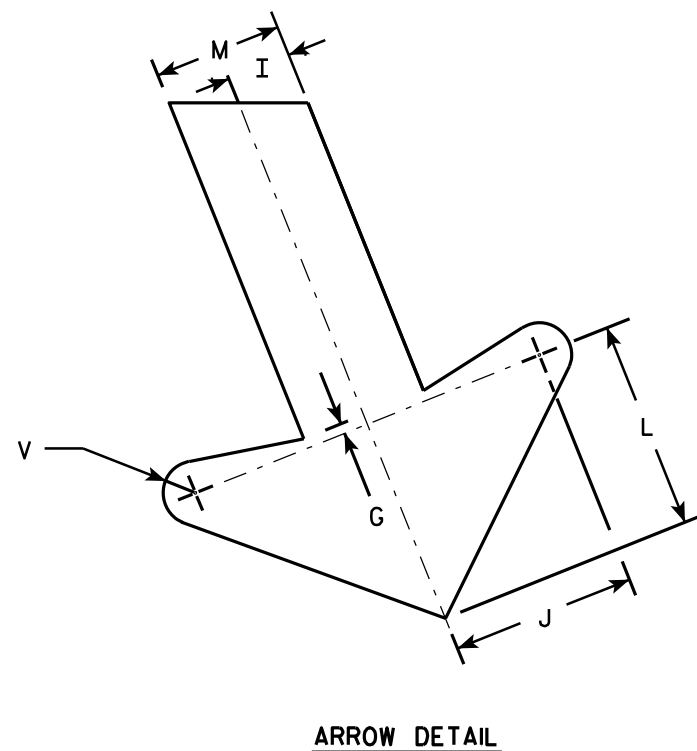
| SIZE | A  | B | C     | D   | E   | F | G     | H      | I | J | K     | L     | M      | N   | O   | P | Q     | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|---|-------|-----|-----|---|-------|--------|---|---|-------|-------|--------|-----|-----|---|-------|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |   |       |     |     |   |       |        |   |   |       |       |        |     |     |   |       |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 24 |   | 1 1/8 | 3/8 | 1/2 |   | 4 3/4 | 13 1/4 | 6 | 2 | 2 1/2 | 5 1/4 | 10 1/2 | 45° | 1/2 |   | 5     |   |   |   |   |   |   |   |   |   | 4.0             |
| 2M   | 36 |   | 1 5/8 | 5/8 | 3/4 |   | 7 1/8 | 19 7/8 | 9 | 3 | 3 3/4 | 7 7/8 | 15 3/4 | 45° | 3/4 |   | 7 5/8 |   |   |   |   |   |   |   |   |   | 9.0             |
| 3    | 36 |   | 1 5/8 | 5/8 | 3/4 |   | 7 1/8 | 19 7/8 | 9 | 3 | 3 3/4 | 7 7/8 | 15 3/4 | 45° | 3/4 |   | 7 5/8 |   |   |   |   |   |   |   |   |   | 9.0             |
| 4    | 36 |   | 1 5/8 | 5/8 | 3/4 |   | 7 1/8 | 19 7/8 | 9 | 3 | 3 3/4 | 7 7/8 | 15 3/4 | 45° | 3/4 |   | 7 5/8 |   |   |   |   |   |   |   |   |   | 9.0             |
| 5    | 36 |   | 1 5/8 | 5/8 | 3/4 |   | 7 1/8 | 19 7/8 | 9 | 3 | 3 3/4 | 7 7/8 | 15 3/4 | 45° | 3/4 |   | 7 5/8 |   |   |   |   |   |   |   |   |   | 9.0             |

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| STANDARD SIGN                    |                                                       |
| R3-4                             |                                                       |
| WISCONSIN DEPT OF TRANSPORTATION |                                                       |
| APPROVED                         | <i>Matthew R. Rauch</i><br>for State Traffic Engineer |
| DATE 12/08/10                    | PLATE NO. R3-4.11                                     |

|             |      |         |           |   |
|-------------|------|---------|-----------|---|
| PROJECT NO: | HWY: | COUNTY: | SHEET NO: | 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 - 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.



| 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<br>sq. ft. |
|------|----|----|-------|-----|-----|---|-----|-------|-------|-------|-------|-------|---|-------|--------|--------|---|--------|--------|----|-----|-----|--------|---|---|---|-----------------|
| 1    |    |    |       |     |     |   |     |       |       |       |       |       |   |       |        |        |   |        |        |    |     |     |        |   |   |   |                 |
| 2S   | 24 | 36 | 1 1/8 | 3/8 | 1/2 | 4 | 1/4 | 2 1/2 | 1     | 2 7/8 | 2 5/8 | 3 1/4 | 2 | 1 1/2 | 7 1/4  | 7 1/2  |   | 8 1/8  | 7 5/8  | 8  | 22° | 1/2 | 9 1/2  |   |   |   | 6.0             |
| 2M   | 24 | 36 | 1 1/8 | 3/8 | 1/2 | 4 | 1/4 | 2 1/2 | 1     | 2 7/8 | 2 5/8 | 3 1/4 | 2 | 1 1/2 | 7 1/4  | 7 1/2  |   | 8 1/8  | 7 5/8  | 8  | 22° | 1/2 | 9 1/2  |   |   |   | 6.0             |
| 3    | 36 | 54 | 1 3/4 | 1/2 | 5/8 | 6 | 3/8 | 3 3/4 | 1 1/2 | 4 1/4 | 4     | 4 7/8 | 3 | 2 1/4 | 10 7/8 | 11 1/4 |   | 12 1/4 | 11 1/2 | 12 | 22° | 3/4 | 13 1/4 |   |   |   | 13.5            |
| 4    |    |    |       |     |     |   |     |       |       |       |       |       |   |       |        |        |   |        |        |    |     |     |        |   |   |   |                 |
| 5    |    |    |       |     |     |   |     |       |       |       |       |       |   |       |        |        |   |        |        |    |     |     |        |   |   |   |                 |

|             |      |         |  |           |   |
|-------------|------|---------|--|-----------|---|
| PROJECT NO: | HWY: | COUNTY: |  | SHEET NO: | E |
|-------------|------|---------|--|-----------|---|

STANDARD SIGN  
R3-20L

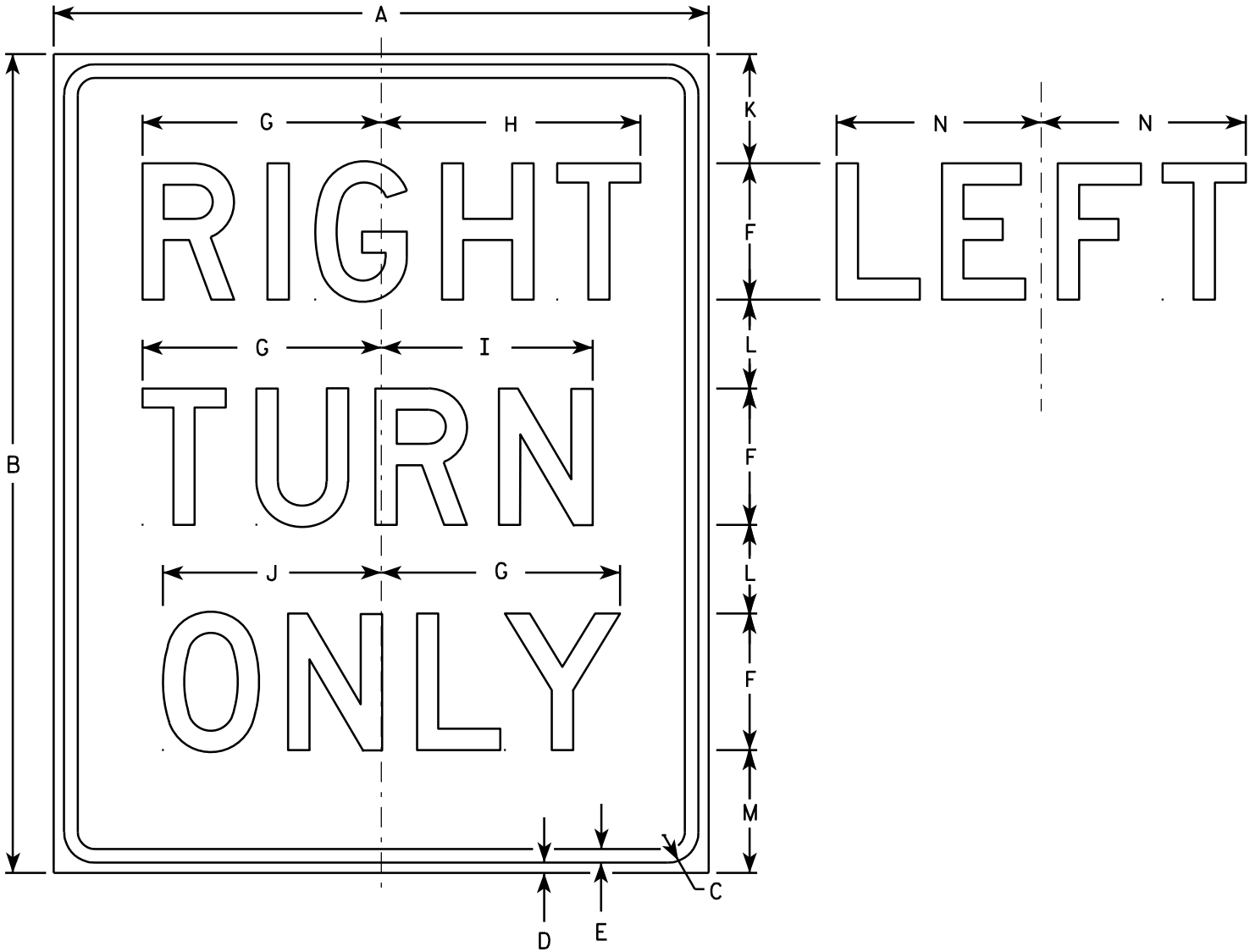
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.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 - 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. R3-53L same as R3-53R except LEFT is substituted for RIGHT.



R3-53R

| 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<br>sq. ft. |
|------|----|----|-------|-----|-----|---|-------|-------|-------|---|---|-------|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |     |   |       |       |       |   |   |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 8 3/4 | 9 1/2 | 7 3/4 | 8 | 4 | 3 1/4 | 4 1/2 | 7 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 5.0             |
| 2M   | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 8 3/4 | 9 1/2 | 7 3/4 | 8 | 4 | 3 1/4 | 4 1/2 | 7 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 5.0             |
| 3    | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 8 3/4 | 9 1/2 | 7 3/4 | 8 | 4 | 3 1/4 | 4 1/2 | 7 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 5.0             |
| 4    |    |    |       |     |     |   |       |       |       |   |   |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 5    |    |    |       |     |     |   |       |       |       |   |   |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |                 |

STANDARD SIGN  
R3-53

WISCONSIN DEPT OF TRANSPORTATION

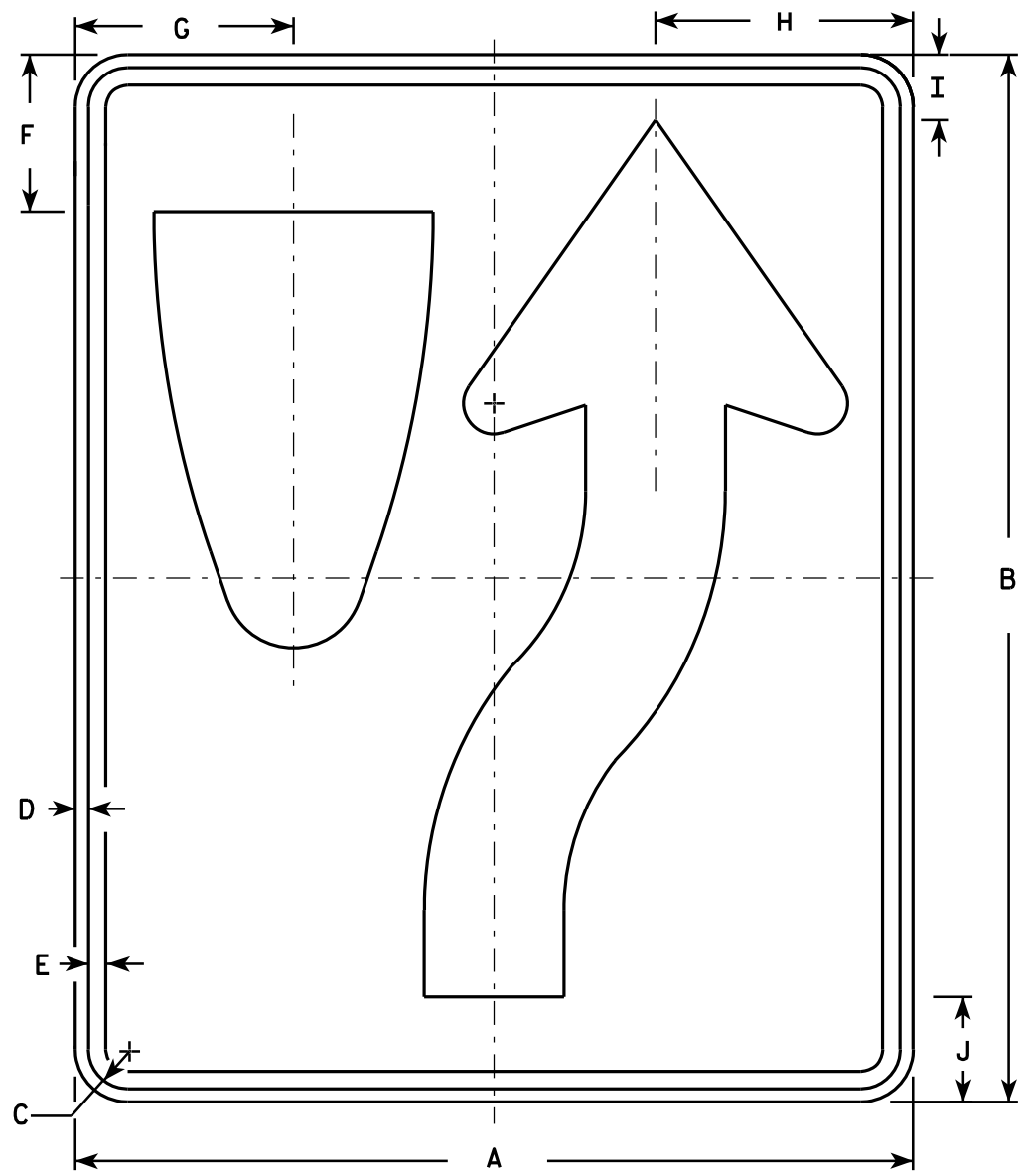
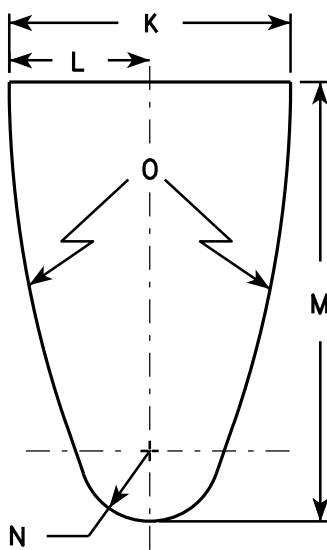
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-53.8

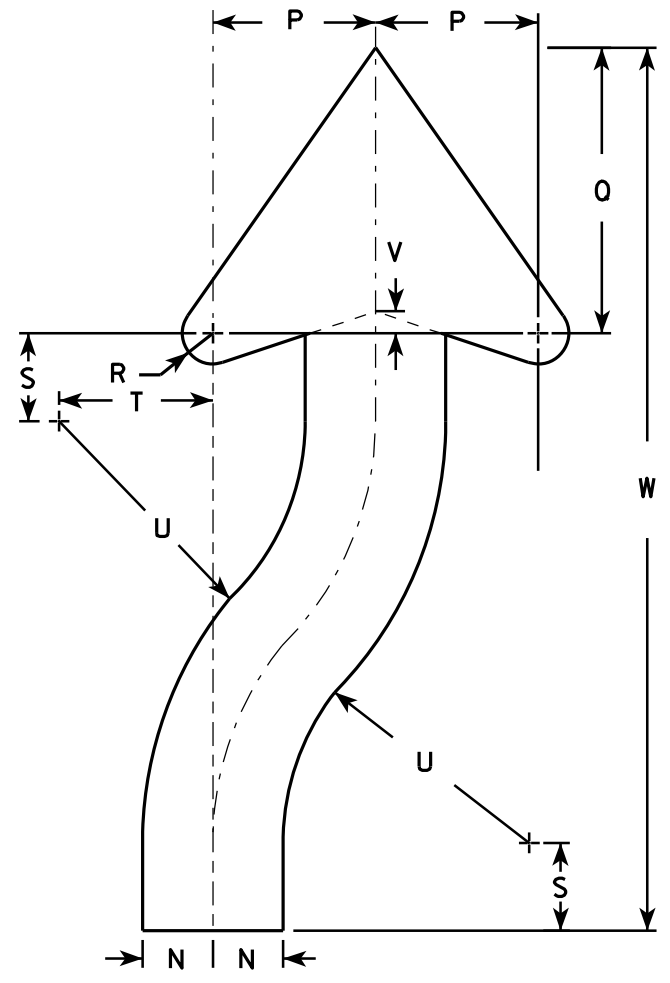
|             |      |         |           |   |
|-------------|------|---------|-----------|---|
| PROJECT NO: | HWY: | COUNTY: | SHEET NO: | E |
|-------------|------|---------|-----------|---|

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.



R4-7



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<br>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:

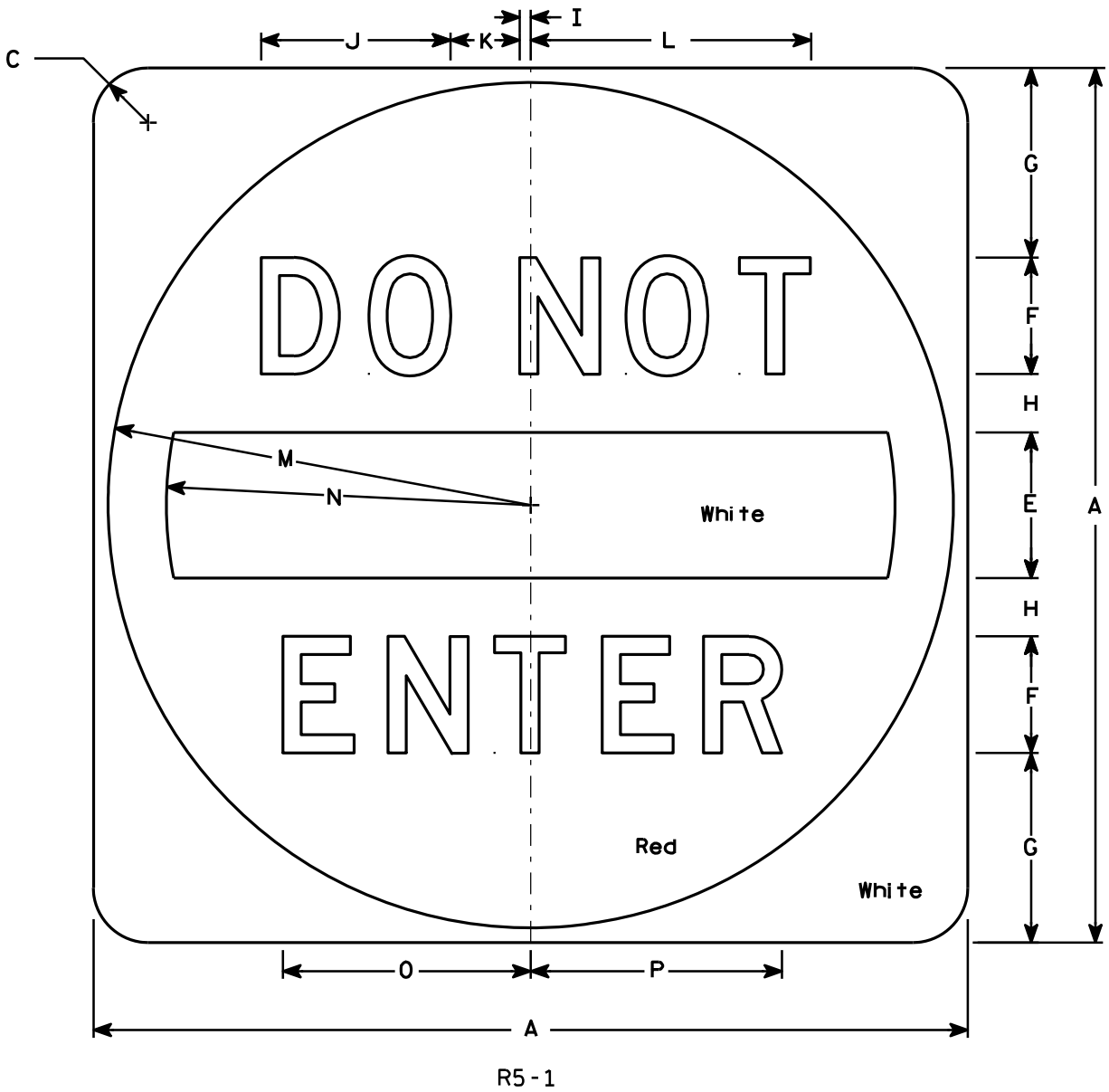
COUNTY:

SHEET NO:

E

NOTES

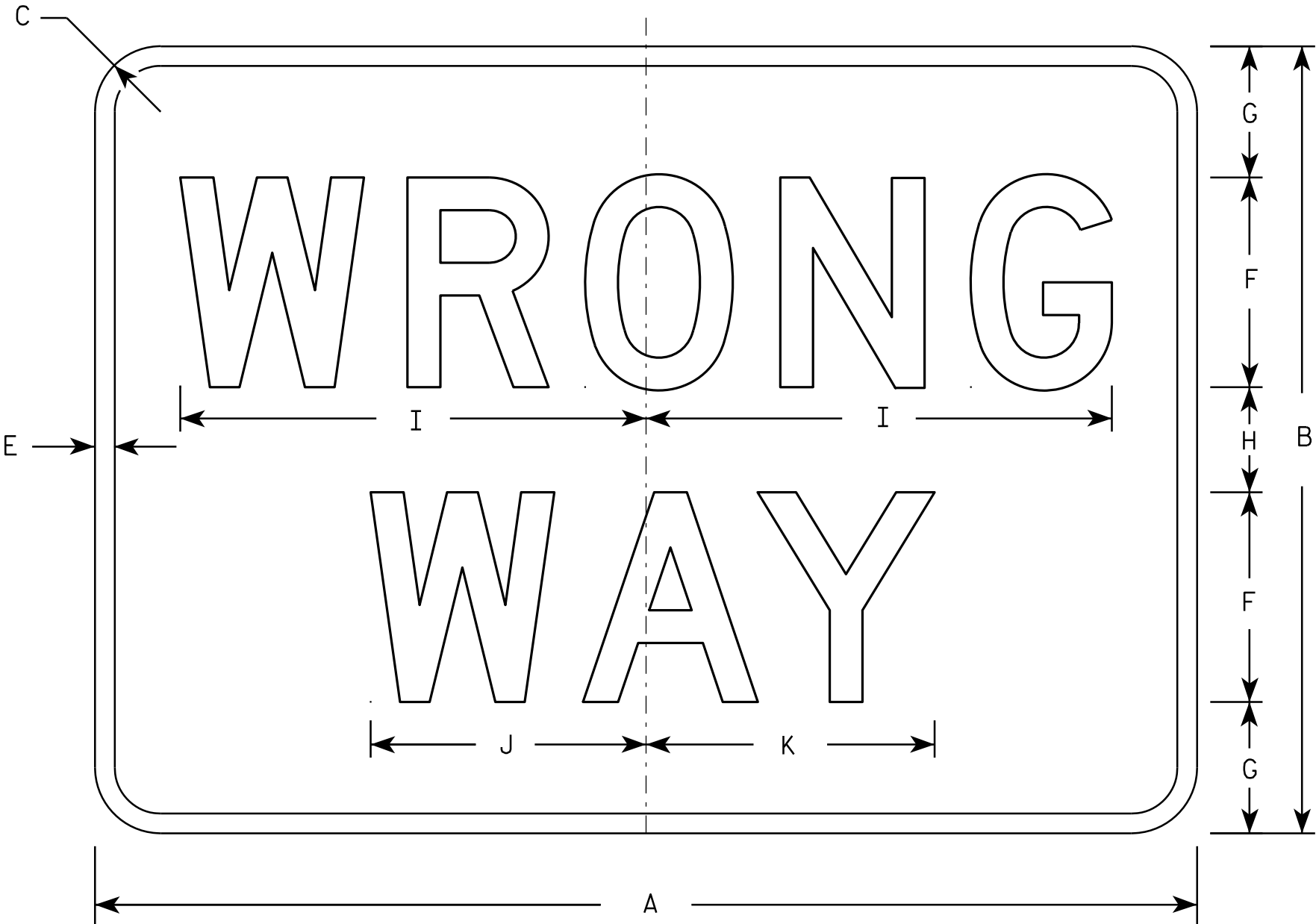
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - See detail  
Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the corners 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<br>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                         | <i>Matthew R. Rauch</i><br>for State Traffic Engineer |
| DATE 12/17/10                    | PLATE NO. R5-1.15                                     |

|             |      |         |           |   |
|-------------|------|---------|-----------|---|
| PROJECT NO: | HWY: | COUNTY: | SHEET NO: | E |
|-------------|------|---------|-----------|---|



R5-1A

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 - 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<br>sq. ft. |
|------|----|----|-------|---|-----|---|-------|---|--------|--------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    | 30 | 18 | 1 1/2 |   | 1/2 | 5 | 3     | 2 | 11     | 6 1/2  | 6 7/8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.75            |
| 2S   | 36 | 24 | 2     |   | 5/8 | 6 | 4 1/2 | 3 | 13 1/4 | 7 7/8  | 8 1/4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6.00            |
| 2M   | 42 | 30 | 2 1/2 |   | 3/4 | 8 | 5     | 4 | 17 3/4 | 10 1/2 | 11    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8.75            |
| 3    | 42 | 30 | 2 1/2 |   | 3/4 | 8 | 5     | 4 | 17 3/4 | 10 1/2 | 11    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8.75            |
| 4    | 42 | 30 | 2 1/2 |   | 3/4 | 8 | 5     | 4 | 17 3/4 | 10 1/2 | 11    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8.75            |
| 5    | 42 | 30 | 2 1/2 |   | 3/4 | 8 | 5     | 4 | 17 3/4 | 10 1/2 | 11    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8.75            |

STANDARD SIGN  
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

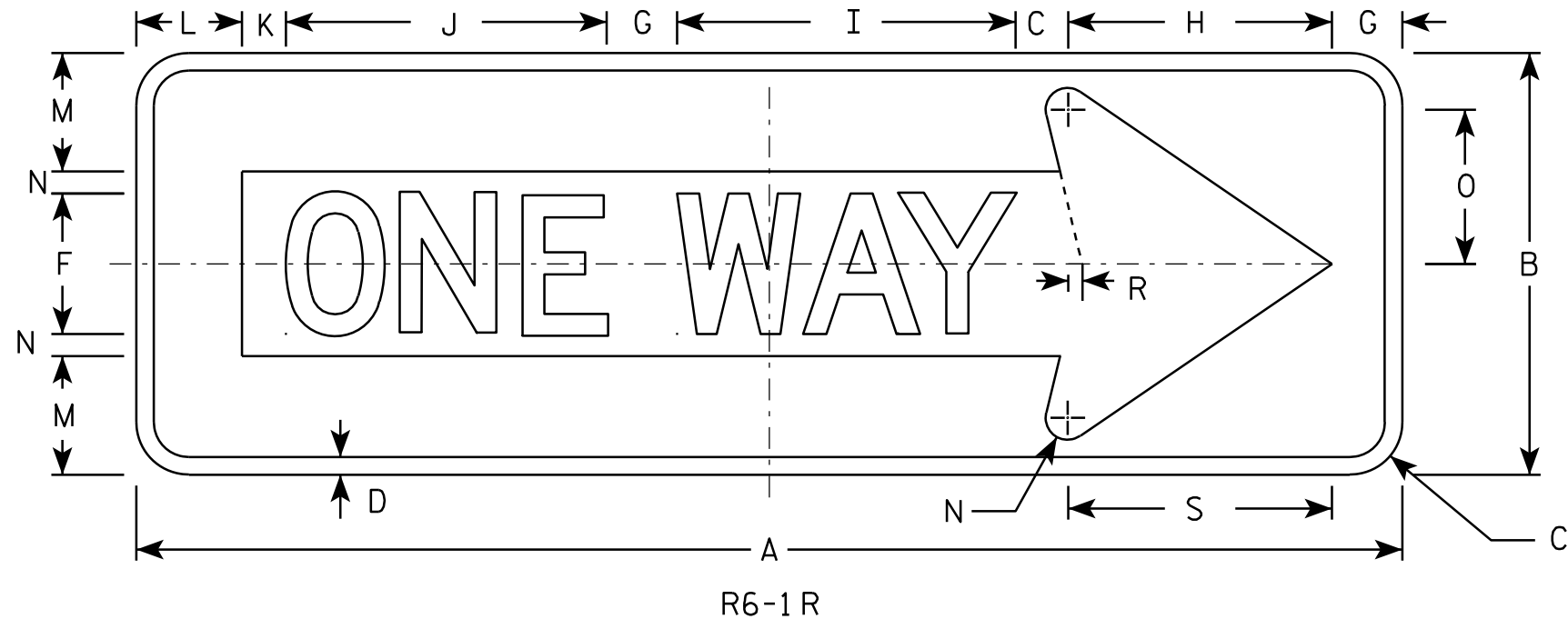
PROJECT NO:

HWY:

COUNTY:

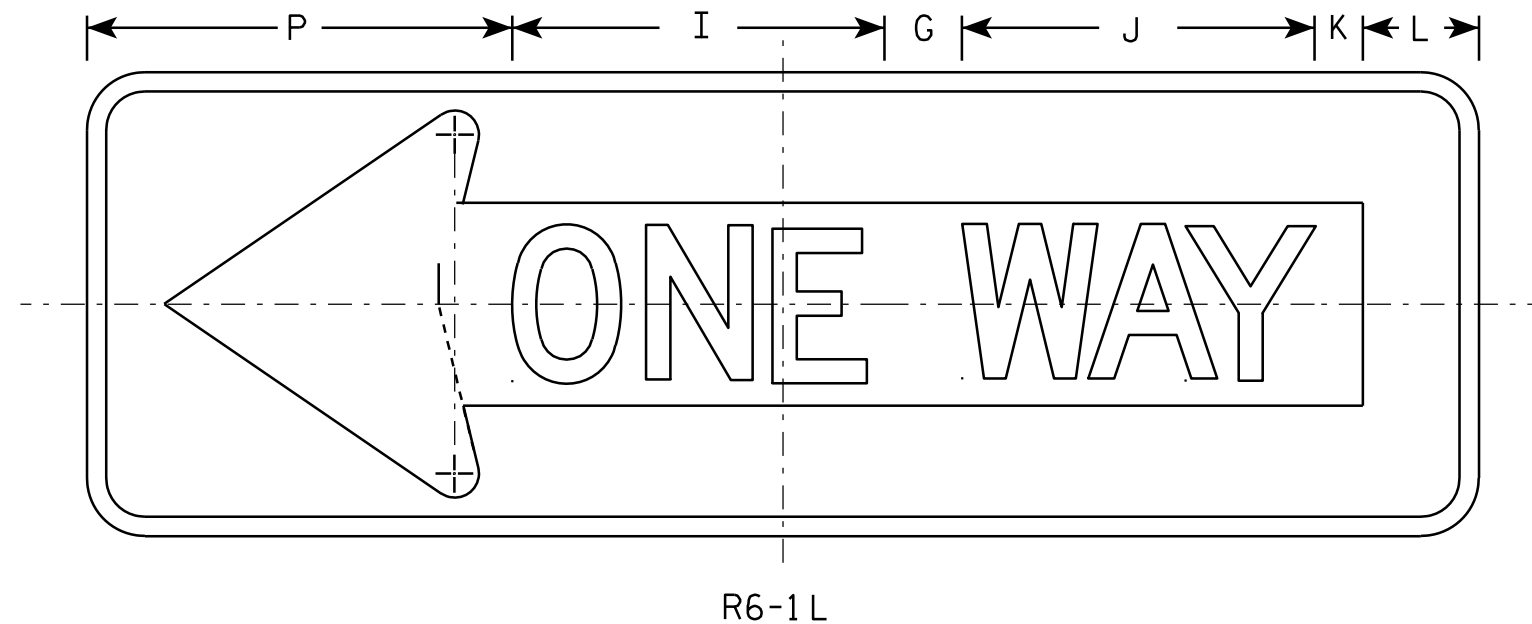
SHEET NO:

E



# NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:  
Background - BLACK  
Message - BLACK LEGEND & WHITE ARROW & BORDER
- Message Series - D
- 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<br>sq. ft. |
|------|----|----|-------|-----|---|---|---|--------|--------|--------|-------|-------|-------|-----|-------|--------|---|-----|--------|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |   |   |   |        |        |        |       |       |       |     |       |        |   |     |        |   |   |   |   |   |   |   |                 |
| 2S   | 36 | 12 | 1 1/2 | 1/2 |   | 4 | 2 | 7 1/2  | 9 5/8  | 9 1/8  | 1 1/4 | 3     | 3 3/8 | 5/8 | 4 3/8 | 11     |   | 3/8 | 7 1/2  |   |   |   |   |   |   |   | 3.0             |
| 2M   | 54 | 18 | 2 1/4 | 3/4 |   | 6 | 3 | 11 1/4 | 14 1/2 | 13 5/8 | 1 7/8 | 4 1/2 | 5     | 1   | 6 1/2 | 16 1/2 |   | 5/8 | 11 1/4 |   |   |   |   |   |   |   | 6.75            |
| 3    | 54 | 18 | 2 1/4 | 3/4 |   | 6 | 3 | 11 1/4 | 14 1/2 | 13 5/8 | 1 7/8 | 4 1/2 | 5     | 1   | 6 1/2 | 16 1/2 |   | 5/8 | 11 1/4 |   |   |   |   |   |   |   | 6.75            |
| 4    | 54 | 18 | 2 1/4 | 3/4 |   | 6 | 3 | 11 1/4 | 14 1/2 | 13 5/8 | 1 7/8 | 4 1/2 | 5     | 1   | 6 1/2 | 16 1/2 |   | 5/8 | 11 1/4 |   |   |   |   |   |   |   | 6.75            |
| 5    |    |    |       |     |   |   |   |        |        |        |       |       |       |     |       |        |   |     |        |   |   |   |   |   |   |   |                 |

## STANDARD SIGN R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

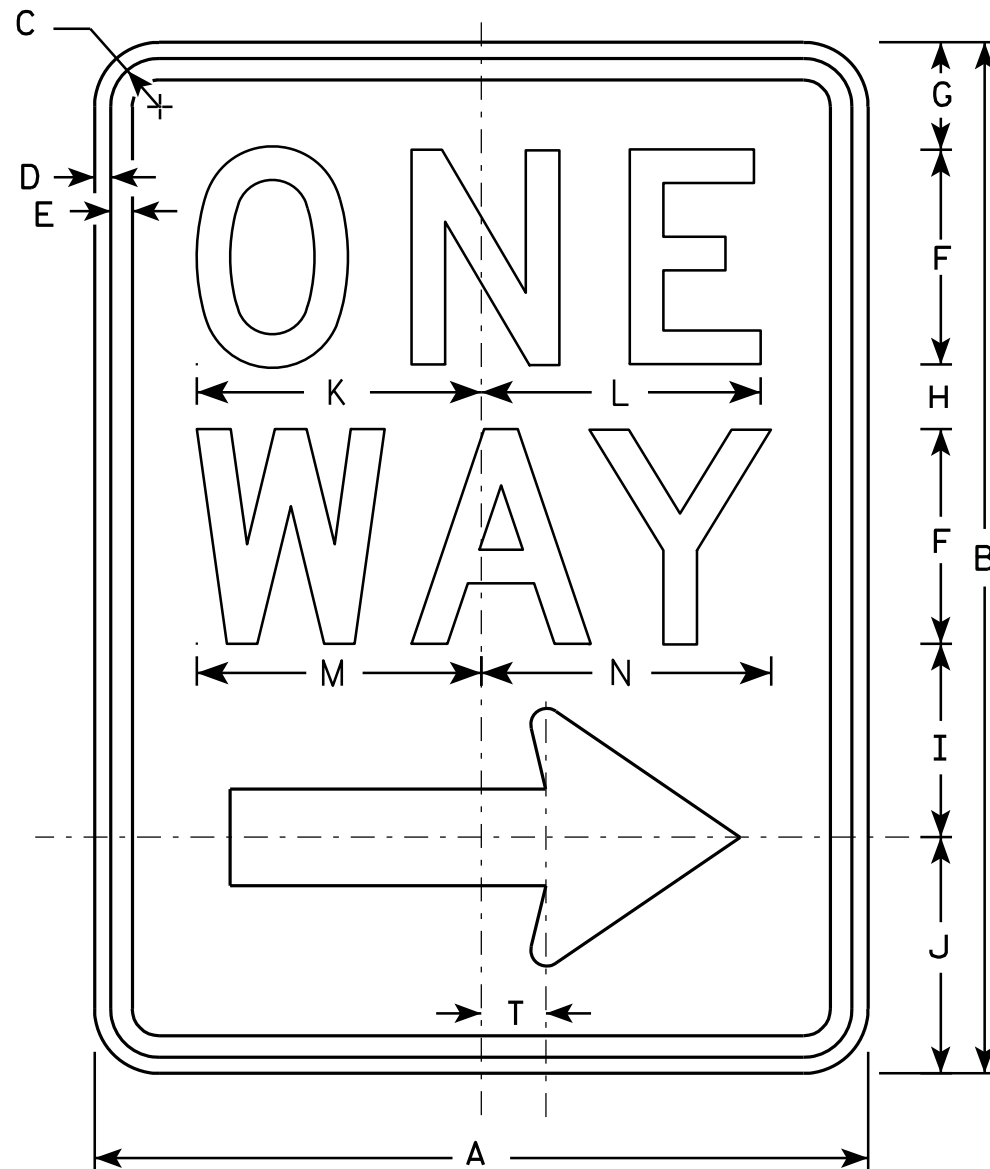
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

SHEET NO:

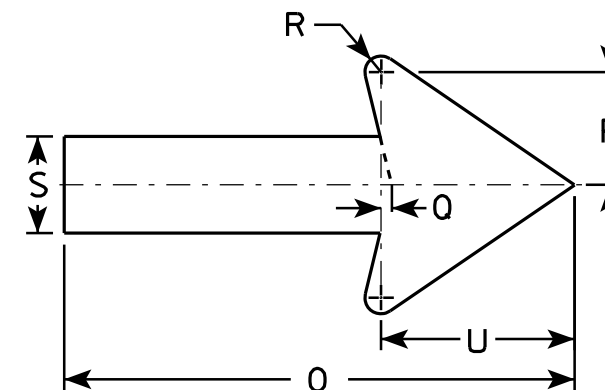
E



R6-2R

NOTES

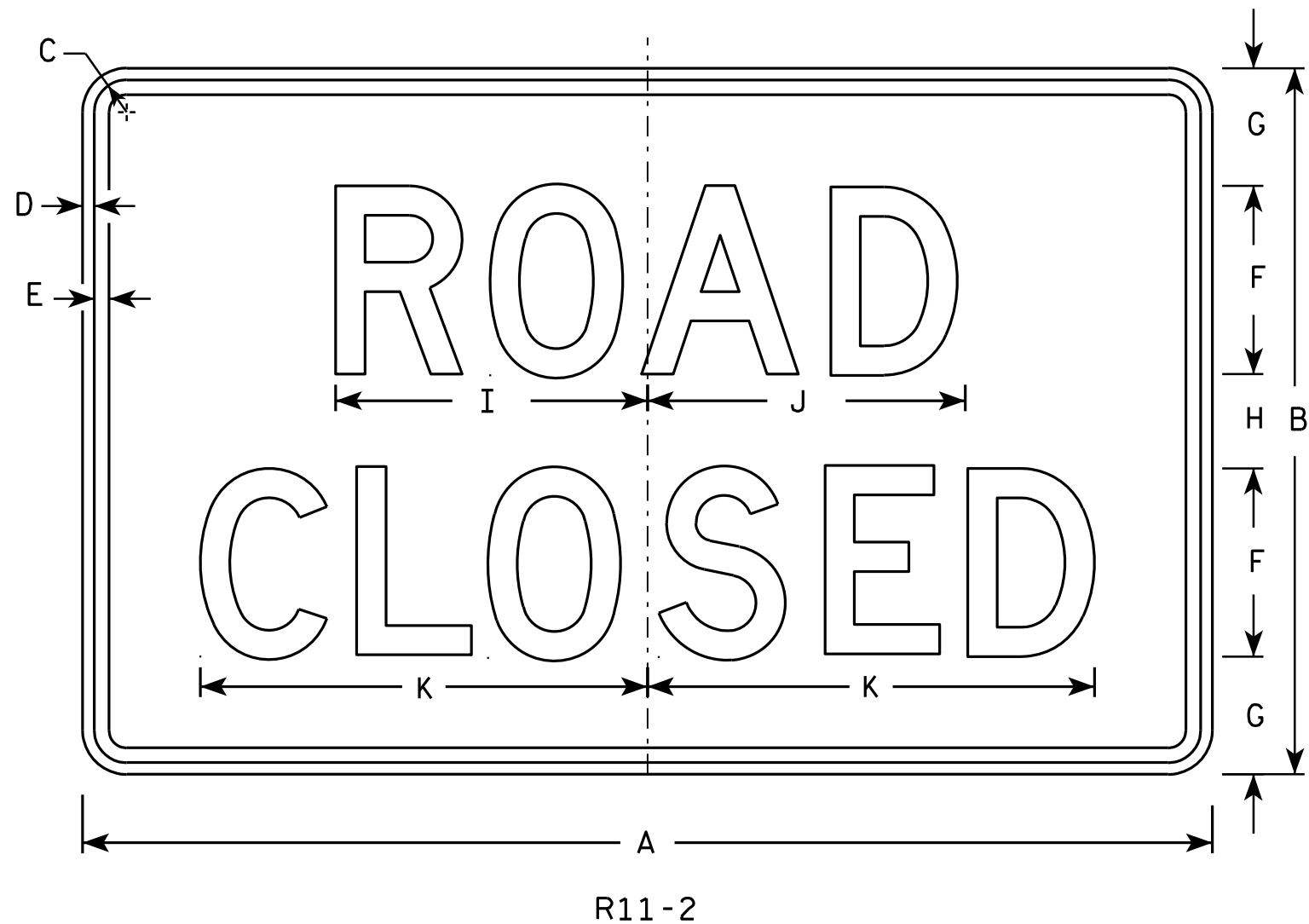
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - White  
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded 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    |    |    |       |     |     |    |       |       |       |        |        |        |        |        |        |       |     |     |       |       |       |   |   |   |   |   |

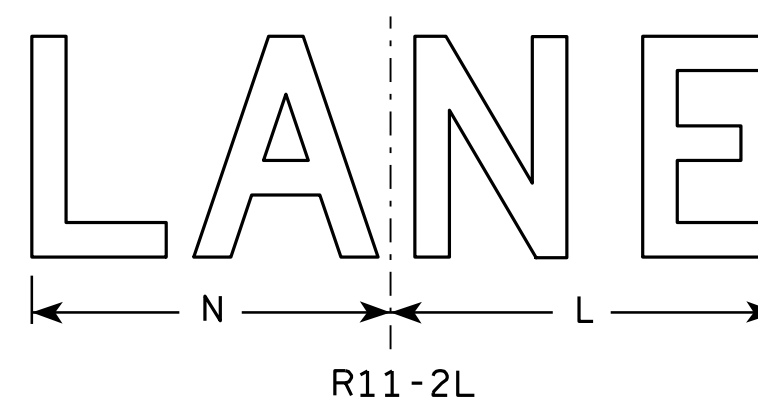
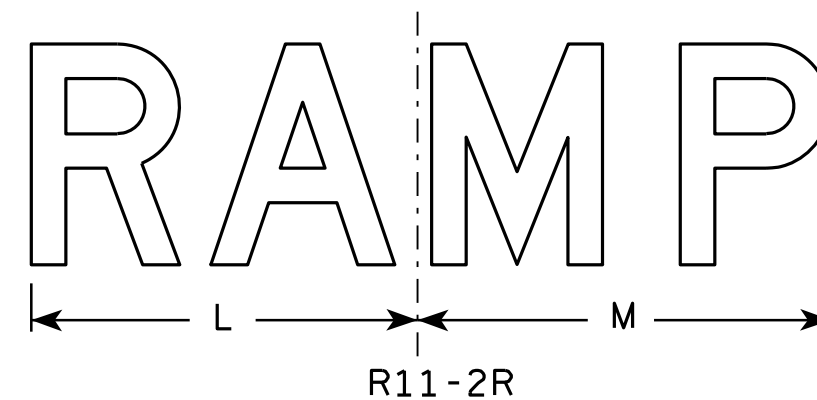
|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| STANDARD SIGN<br>R6-2 R&L        |                                                       |
| WISCONSIN DEPT OF TRANSPORTATION |                                                       |
| APPROVED                         | <i>Matthew R. Rauch</i><br>for State Traffic Engineer |
| DATE 11/2/10                     | PLATE NO. R6-2.8                                      |

|             |      |         |           |   |
|-------------|------|---------|-----------|---|
| PROJECT NO: | HWY: | COUNTY: | SHEET NO: | 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 - 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. Modify the message as required.

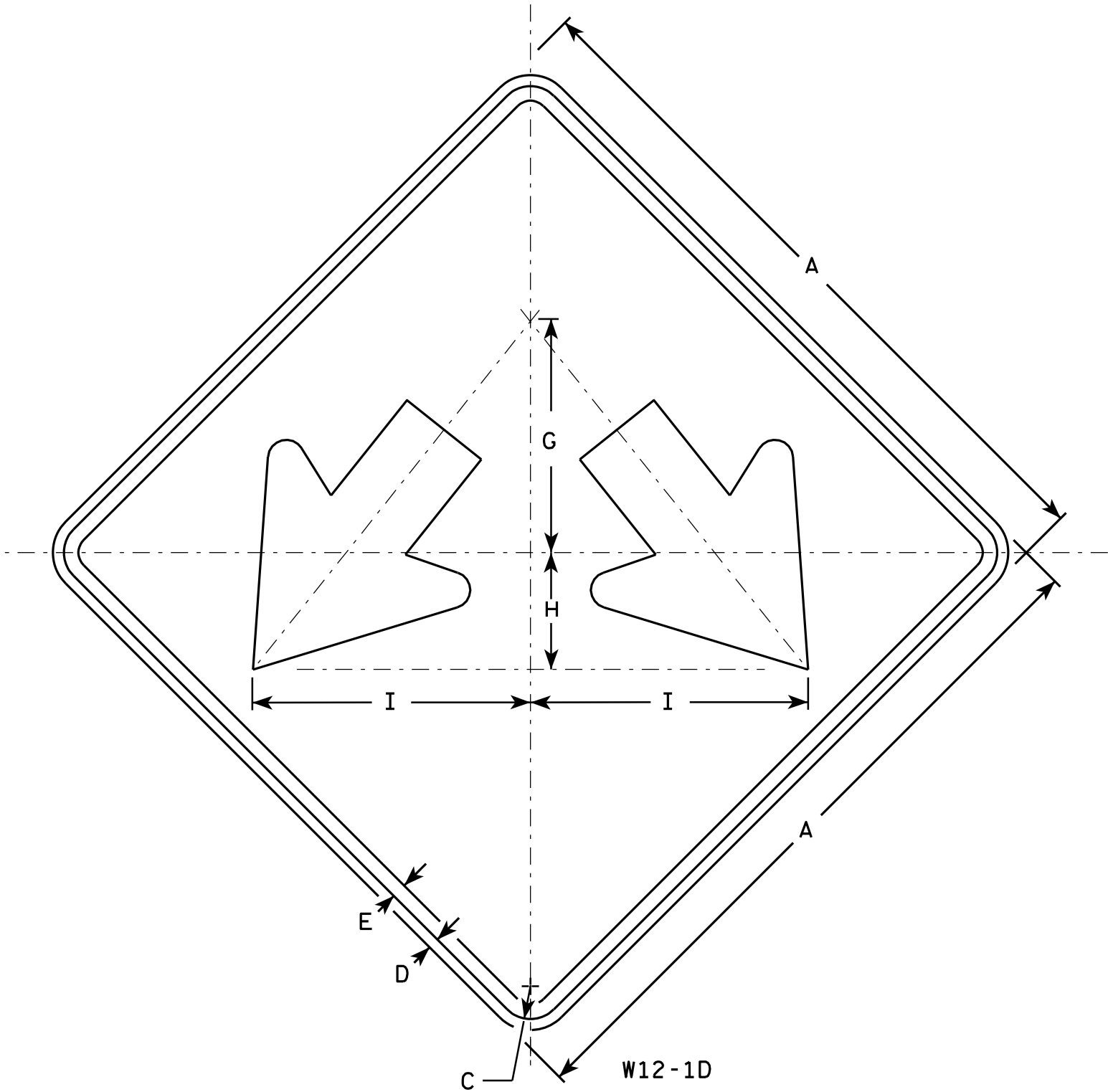


| SIZE | A  | B  | C     | D   | E   | F | G | H | I      | J      | K  | L  | M  | N  | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|----|-------|-----|-----|---|---|---|--------|--------|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |     |   |   |   |        |        |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 48 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 | 8 | 5 | 4 | 13 1⁄4 | 13 1⁄2 | 19 | 14 | 15 | 13 |   |   |   |   |   |   |   |   |   |   |   |   | 10.0            |
| 2M   | 48 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 | 8 | 5 | 4 | 13 1⁄4 | 13 1⁄2 | 19 | 14 | 15 | 13 |   |   |   |   |   |   |   |   |   |   |   |   | 10.0            |
| 3    | 48 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 | 8 | 5 | 4 | 13 1⁄4 | 13 1⁄2 | 19 | 14 | 15 | 13 |   |   |   |   |   |   |   |   |   |   |   |   | 10.0            |
| 4    | 48 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 | 8 | 5 | 4 | 13 1⁄4 | 13 1⁄2 | 19 | 14 | 15 | 13 |   |   |   |   |   |   |   |   |   |   |   |   | 10.0            |
| 5    | 48 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 | 8 | 5 | 4 | 13 1⁄4 | 13 1⁄2 | 19 | 14 | 15 | 13 |   |   |   |   |   |   |   |   |   |   |   |   | 10.0            |

STANDARD SIGN  
R11-2

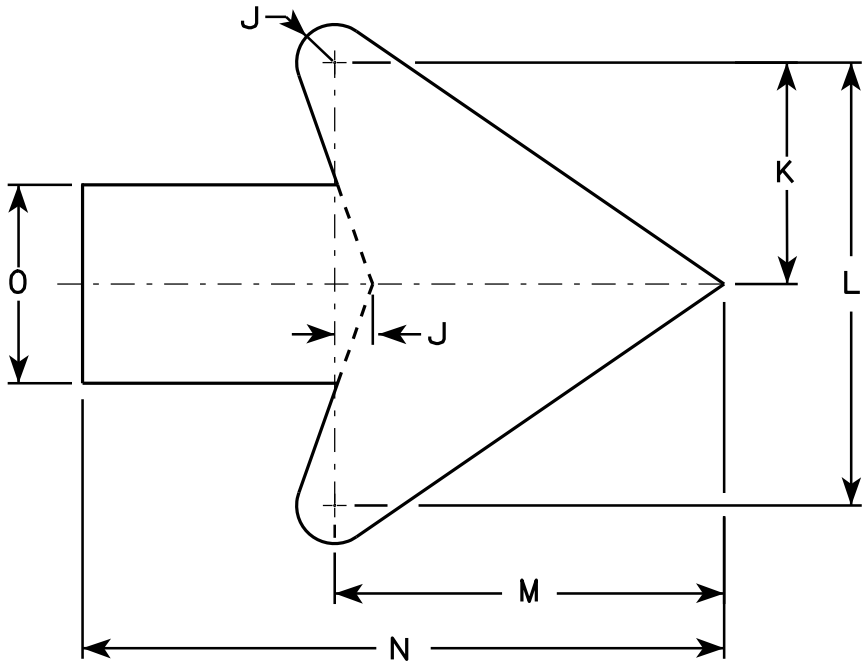
WISCONSIN DEPT OF TRANSPORTATION  
APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: HWY: COUNTY: SHEET NO: 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

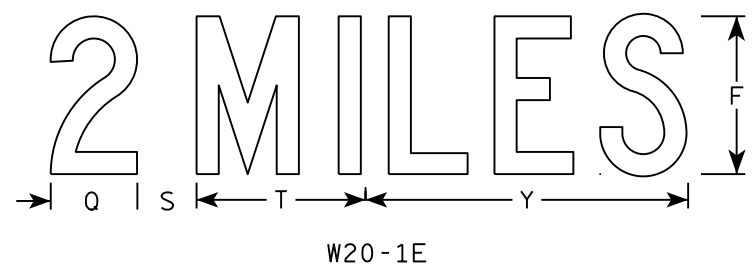
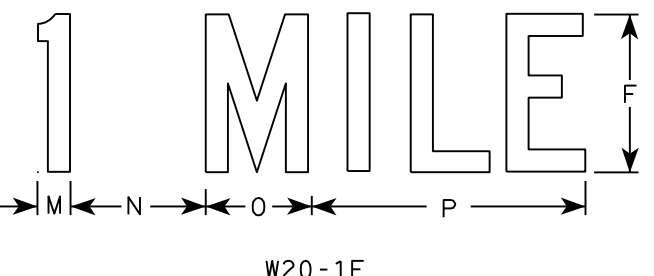
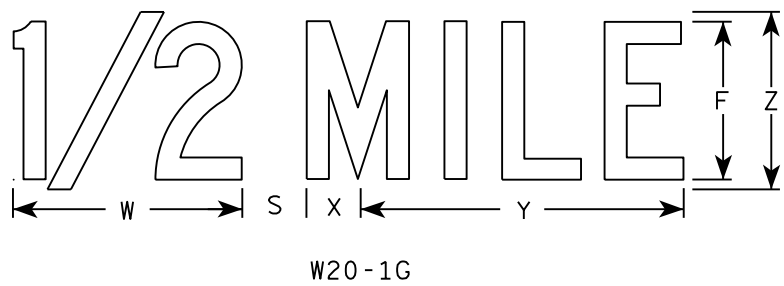
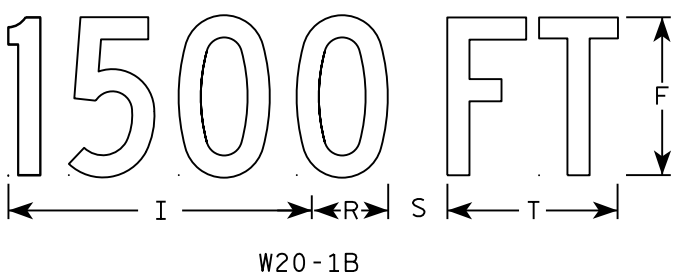
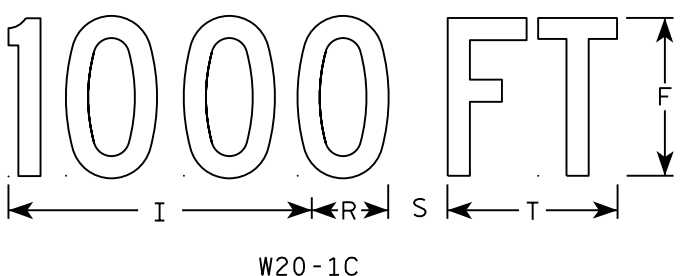
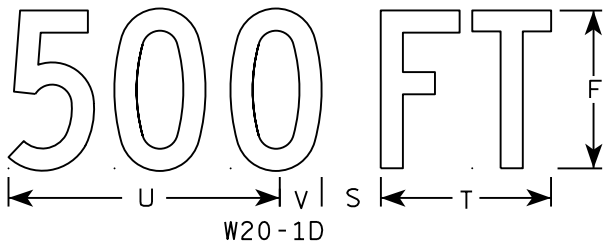
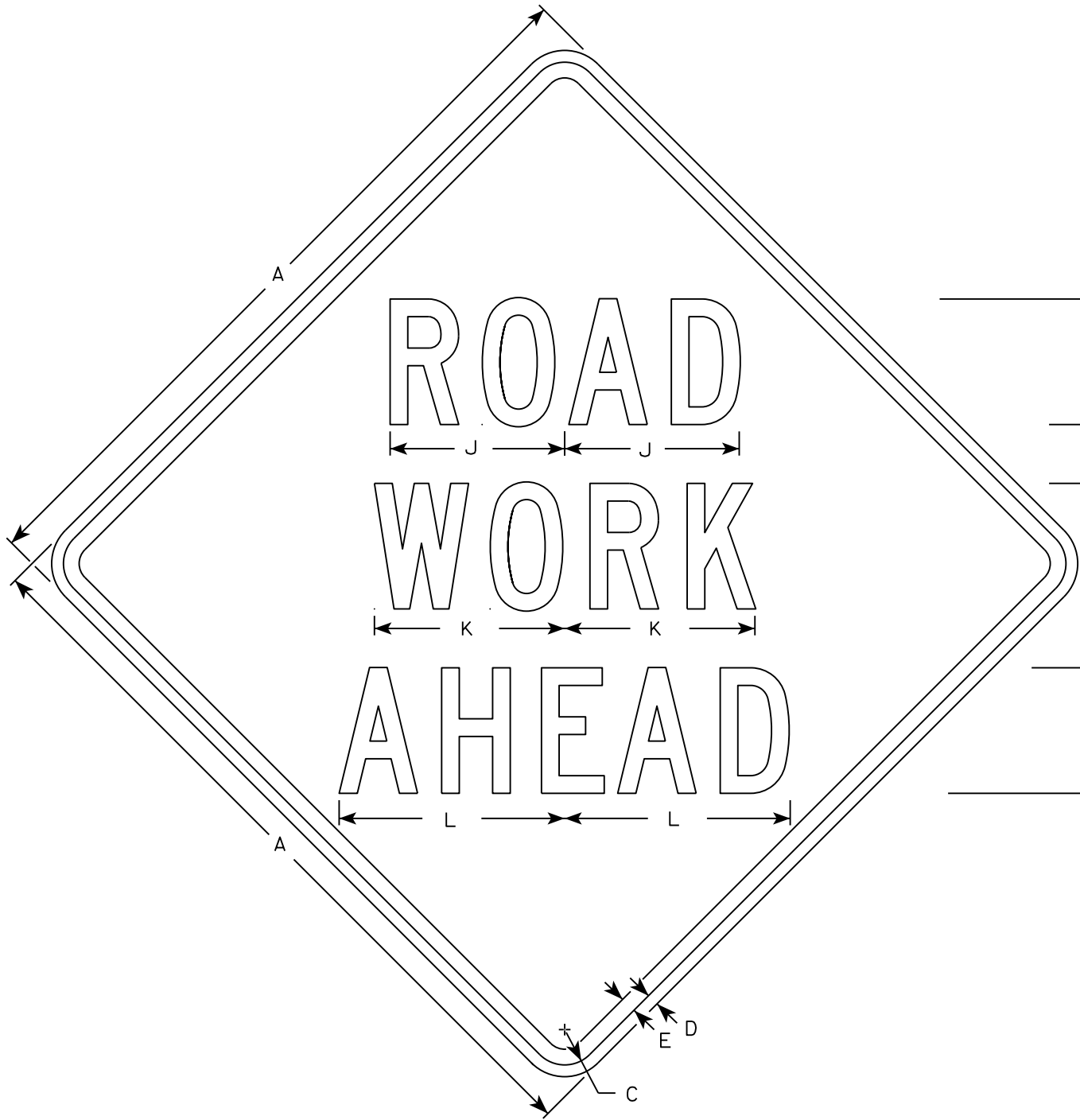
| SIZE | A  | B | C     | D   | E   | F | G  | H | I      | J     | K     | L      | M      | N      | O     | P | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|---|-------|-----|-----|---|----|---|--------|-------|-------|--------|--------|--------|-------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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



NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:  
Background - Orange  
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.

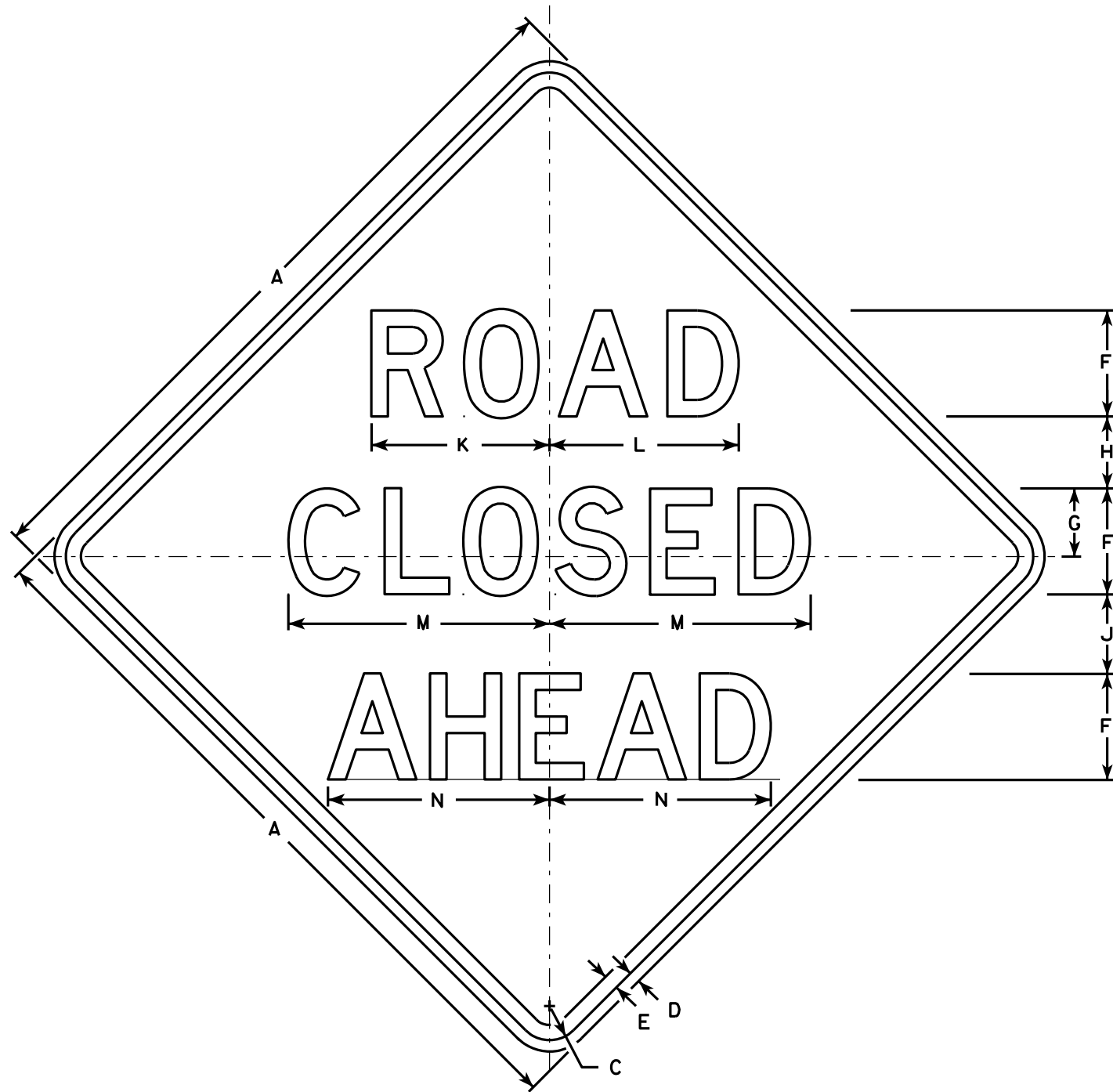
| SIZE | A  | B | C     | D   | E   | F | G     | H     | I      | J      | K      | L      | M     | N     | O     | P      | Q     | R     | S     | T     | U      | V     | W      | X     | Y      | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|-------|--------|---|--------------|
| 1    | 36 |   | 1 3/8 | 1/2 | 5/8 | 5 | 2 5/8 | 3 1/4 | 10 1/8 | 7      | 7 5/8  | 8 7/8  | 1 1/8 | 4 1/2 | 3 1/2 | 9      |       | 2 1/2 | 2 1/4 | 5 5/8 | 9      | 1 3/8 | 8      | 1 3/4 | 10 3/4 | 6 | 9.0          |
| 2S   | 48 |   | 2 1/4 | 3/4 | 1   | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3     | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0         |
| 2M   | 48 |   | 2 1/4 | 3/4 | 1   | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3     | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0         |
| 3    | 48 |   | 2 1/4 | 3/4 | 1   | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3     | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0         |
| 4    | 48 |   | 2 1/4 | 3/4 | 1   | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3     | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0         |
| 5    | 48 |   | 2 1/4 | 3/4 | 1   | 8 | 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 | 4 3/8 | 3 7/8 | 3     | 8 5/8 | 13 3/4 | 2 1/8 | 11 7/8 | 2 3/4 | 16 3/8 | 9 | 16.0         |

STANDARD SIGN  
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10



W20-3A

500 FT

W20-3D

1000 FT

W20-3C

1500 FT

W20-3B

1/2 MILE

W20-3G

1 MILE

W20-3F

# NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Orange  
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. Lines 1 and 2 are Series D.  
Line 3 is Series D for AHEAD and Series C for all other distances.

| 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<br>sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-------|-------|-------|--------|--------|--------|--------|----|---|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-----------------|
| 1    | 36 |   | 1 5/8 | 5/8 | 3/4 | 5 | 3 3/8 | 3 1/2 | 1 1/8 | 4     | 8 3/8  | 8 7/8  | 12 1/2 | 11     | 9  | 6 | 10 1/8 | 2 1/2 | 1 7/8 | 5 5/8 | 8      | 1 3/8 | 4 1/2 | 3 1/2 | 10 3/4 | 1 3/4 | 9.0             |
| 2S   | 48 |   | 2 1/4 | 3/4 | 1   | 7 | 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 12 | 8 | 13 1/2 | 3 3/8 | 2 5/8 | 7 1/2 | 10 5/8 | 1 7/8 | 6     | 4 5/8 | 14 3/8 | 2 3/8 | 16.0            |
| 2M   | 48 |   | 2 1/4 | 3/4 | 1   | 7 | 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 12 | 8 | 13 1/2 | 3 3/8 | 2 5/8 | 7 1/2 | 10 5/8 | 1 7/8 | 6     | 4 5/8 | 14 3/8 | 2 3/8 | 16.0            |
| 3    | 48 |   | 2 1/4 | 3/4 | 1   | 7 | 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 12 | 8 | 13 1/2 | 3 3/8 | 2 5/8 | 7 1/2 | 10 5/8 | 1 7/8 | 6     | 4 5/8 | 14 3/8 | 2 3/8 | 16.0            |
| 4    | 48 |   | 2 1/4 | 3/4 | 1   | 7 | 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 12 | 8 | 13 1/2 | 3 3/8 | 2 5/8 | 7 1/2 | 10 5/8 | 1 7/8 | 6     | 4 5/8 | 14 3/8 | 2 3/8 | 16.0            |
| 5    | 48 |   | 2 1/4 | 3/4 | 1   | 7 | 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 12 | 8 | 13 1/2 | 3 3/8 | 2 5/8 | 7 1/2 | 10 5/8 | 1 7/8 | 6     | 4 5/8 | 14 3/8 | 2 3/8 | 16.0            |

STANDARD SIGN  
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

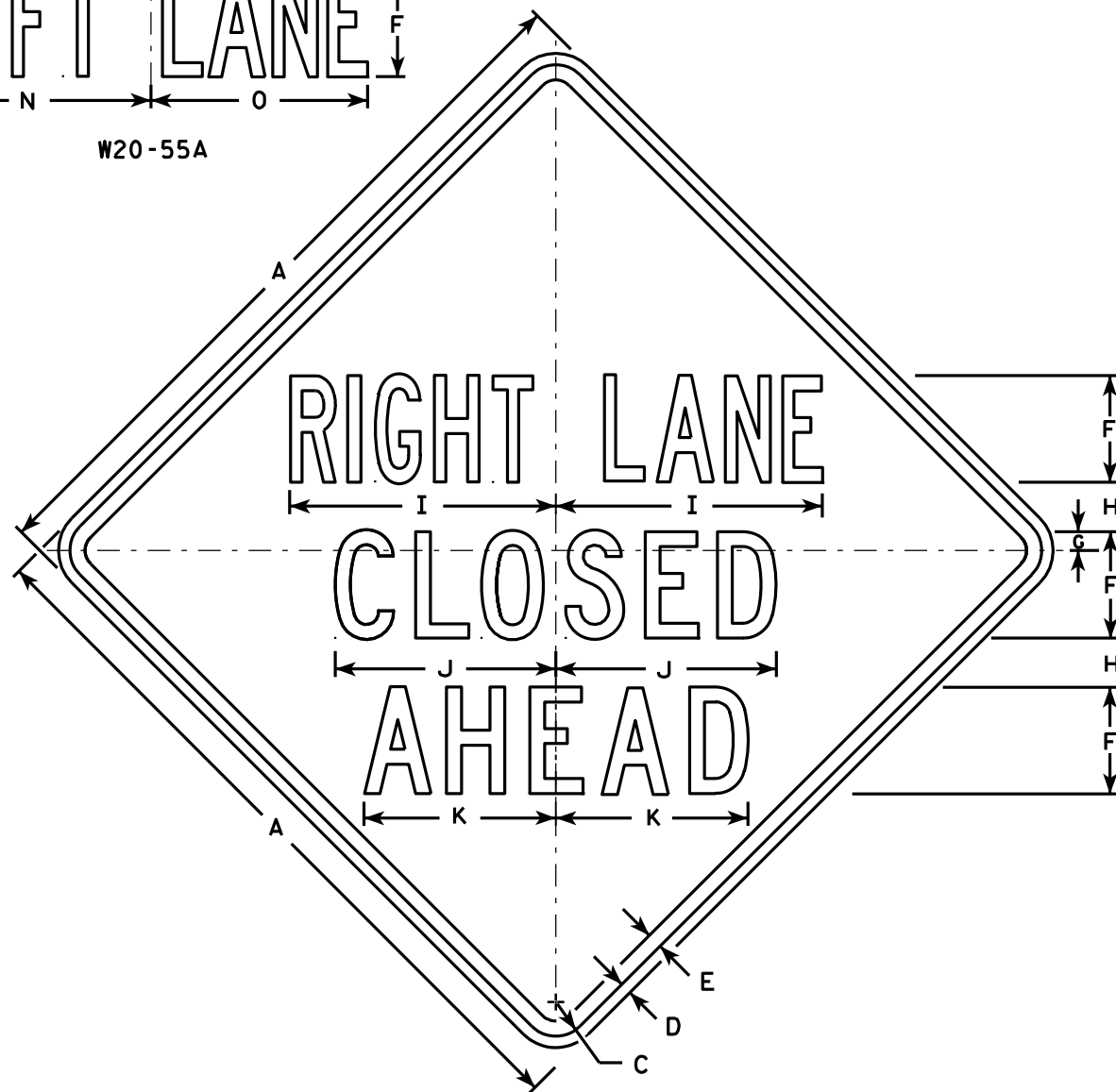
E

CENTER LANE

W20-56A

LEFT LANE

W20-55A



W20-5A

500 FT

W20-5D

1000 FT

W20-5C

1500 FT

W20-5B

1/2 MILE

W20-5G

1 MILE

W20-5F

### NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Orange  
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. "----- LANE" is Series B.  
All other copy is 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<br>sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-------|--------|--------|--------|--------|--------|----|--------|-------|-------|-------|-------|----|-------|-------|--------|-------|-------|--------|-----------------|
| 1    | 36 | 6 | 1 5/8 | 5/8 | 3/4 | 5 | 7/8   | 2 1/2 | 13 1/8 | 10 3/4 | 9 1/2  | 14 1/4 | 13 5/8 | 12 | 12     | 1 3/8 | 1 1/8 | 4 1/2 | 3 1/2 | 9  | 1 7/8 | 5 5/8 | 10 1/8 | 2 1/2 | 1 3/4 | 8      | 9.0             |
| 2S   | 48 | 8 | 2 1/4 | 3/4 | 1   | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19     | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6     | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0            |
| 2M   | 48 | 8 | 2 1/4 | 3/4 | 1   | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19     | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6     | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0            |
| 3    | 48 | 8 | 2 1/4 | 3/4 | 1   | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19     | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6     | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0            |
| 4    | 48 | 8 | 2 1/4 | 3/4 | 1   | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19     | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6     | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0            |
| 5    | 48 | 8 | 2 1/4 | 3/4 | 1   | 7 | 1 1/4 | 3 1/4 | 17 1/2 | 14 3/8 | 12 5/8 | 19     | 18 3/8 | 16 | 14 1/4 | 1 7/8 | 1 1/2 | 6     | 4 5/8 | 12 | 2 5/8 | 7 1/2 | 13 1/2 | 3 3/8 | 2 3/8 | 10 5/8 | 16.0            |

PROJECT NO:

HWY:

COUNTY:

STANDARD SIGN  
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

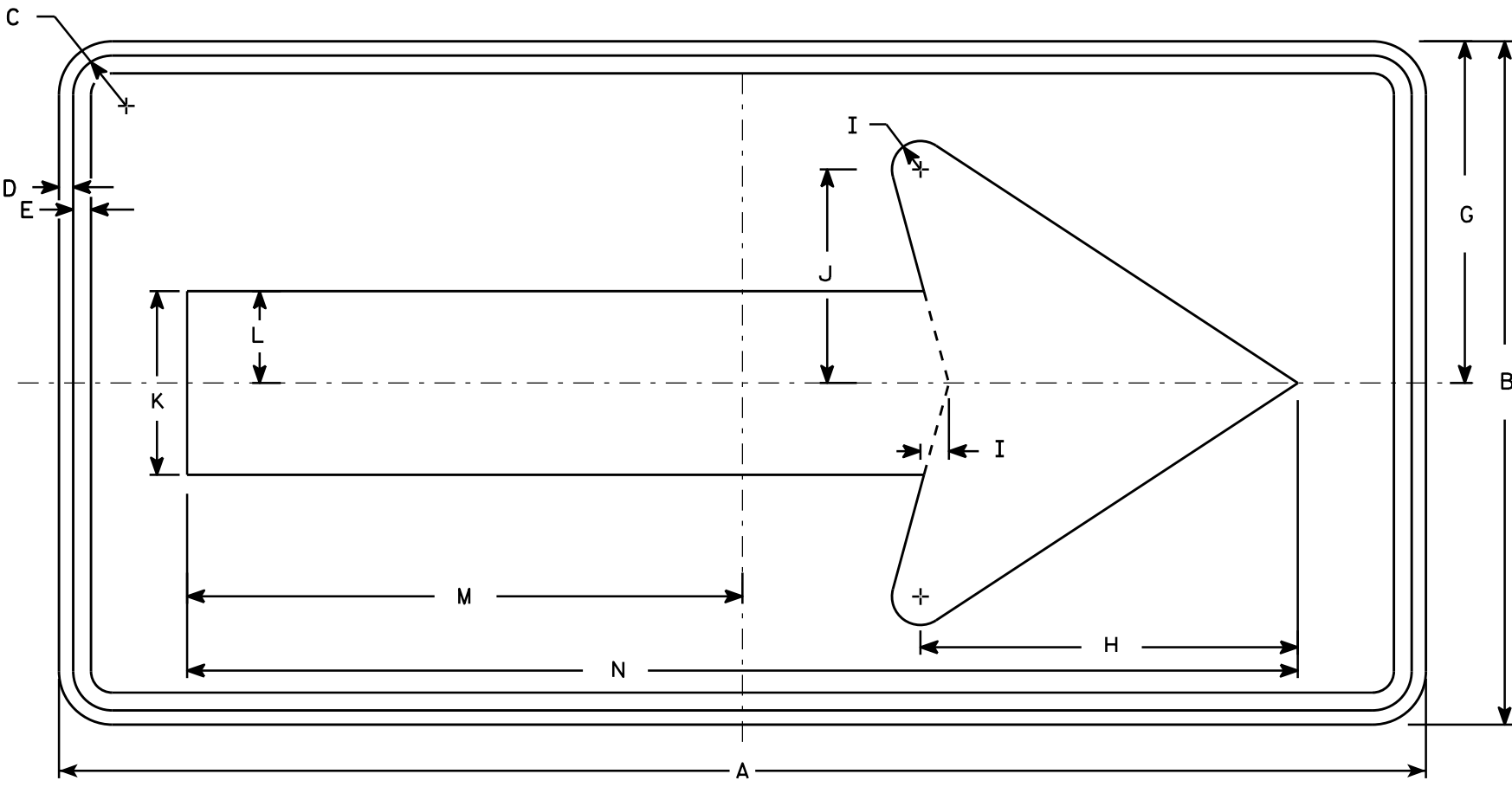
DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

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 - Orange  
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.



W01-6

| 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<br>sq. ft. |
|------|----|----|-------|-----|-----|---|----|--------|-------|-------|-------|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |     |   |    |        |       |       |       |       |        |        |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 48 | 24 | 1 3⁄8 | 1⁄2 | 5⁄8 |   | 12 | 13 1⁄4 | 1     | 7 1⁄2 | 6 1⁄2 | 3 1⁄4 | 19 1⁄2 | 39     |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             |
| 2M   | 48 | 24 | 1 3⁄8 | 1⁄2 | 5⁄8 |   | 12 | 13 1⁄4 | 1     | 7 1⁄2 | 6 1⁄2 | 3 1⁄4 | 19 1⁄2 | 39     |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             |
| 3    | 60 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 |   | 15 | 16 1⁄4 | 1 1⁄4 | 9 1⁄4 | 8     | 4     | 24 3⁄8 | 48 3⁄4 |   |   |   |   |   |   |   |   |   |   |   |   | 12.5            |
| 4    | 60 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 |   | 15 | 16 1⁄4 | 1 1⁄4 | 9 1⁄4 | 8     | 4     | 24 3⁄8 | 48 3⁄4 |   |   |   |   |   |   |   |   |   |   |   |   | 12.5            |
| 5    | 60 | 30 | 1 3⁄8 | 1⁄2 | 5⁄8 |   | 15 | 16 1⁄4 | 1 1⁄4 | 9 1⁄4 | 8     | 4     | 24 3⁄8 | 48 3⁄4 |   |   |   |   |   |   |   |   |   |   |   |   | 12.5            |

STANDARD SIGN  
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

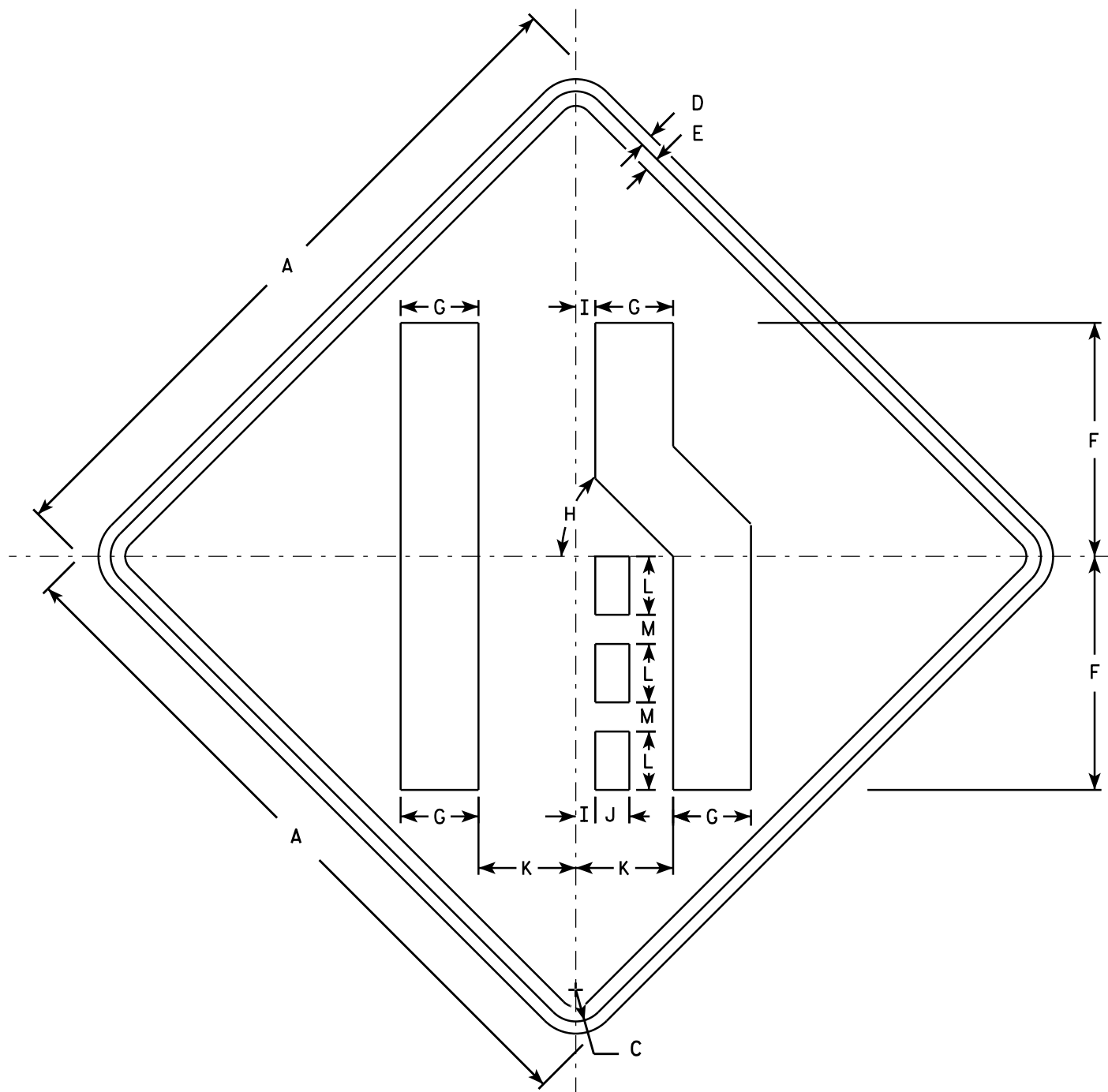
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



W04-2R

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:  
Background - Orange  
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. W04-2L is the same as W04-2R except the symbol 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<br>sq. ft. |
|------|----|---|-------|-----|-----|----|-------|-----|-------|-------|-------|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    | 36 |   | 1 5/8 | 5/8 | 3/4 | 12 | 4     | 45° | 1     | 1 3/4 | 5     | 3 | 1 1/2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 9.0             |
| 2S   | 48 |   | 2 1/4 | 3/4 | 1   | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3/4 | 4 | 2     |   |   |   |   |   |   |   |   |   |   |   |   |   | 16.0            |
| 2M   | 48 |   | 2 1/4 | 3/4 | 1   | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3/4 | 4 | 2     |   |   |   |   |   |   |   |   |   |   |   |   |   | 16.0            |
| 3    | 48 |   | 2 1/4 | 3/4 | 1   | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3/4 | 4 | 2     |   |   |   |   |   |   |   |   |   |   |   |   |   | 16.0            |
| 4    | 48 |   | 2 1/4 | 3/4 | 1   | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3/4 | 4 | 2     |   |   |   |   |   |   |   |   |   |   |   |   |   | 16.0            |
| 5    | 48 |   | 2 1/4 | 3/4 | 1   | 16 | 5 3/8 | 45° | 1 1/4 | 2 3/8 | 6 3/4 | 4 | 2     |   |   |   |   |   |   |   |   |   |   |   |   |   | 16.0            |

STANDARD SIGN

W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch

For State Traffic Engineer

DATE 11/20/13

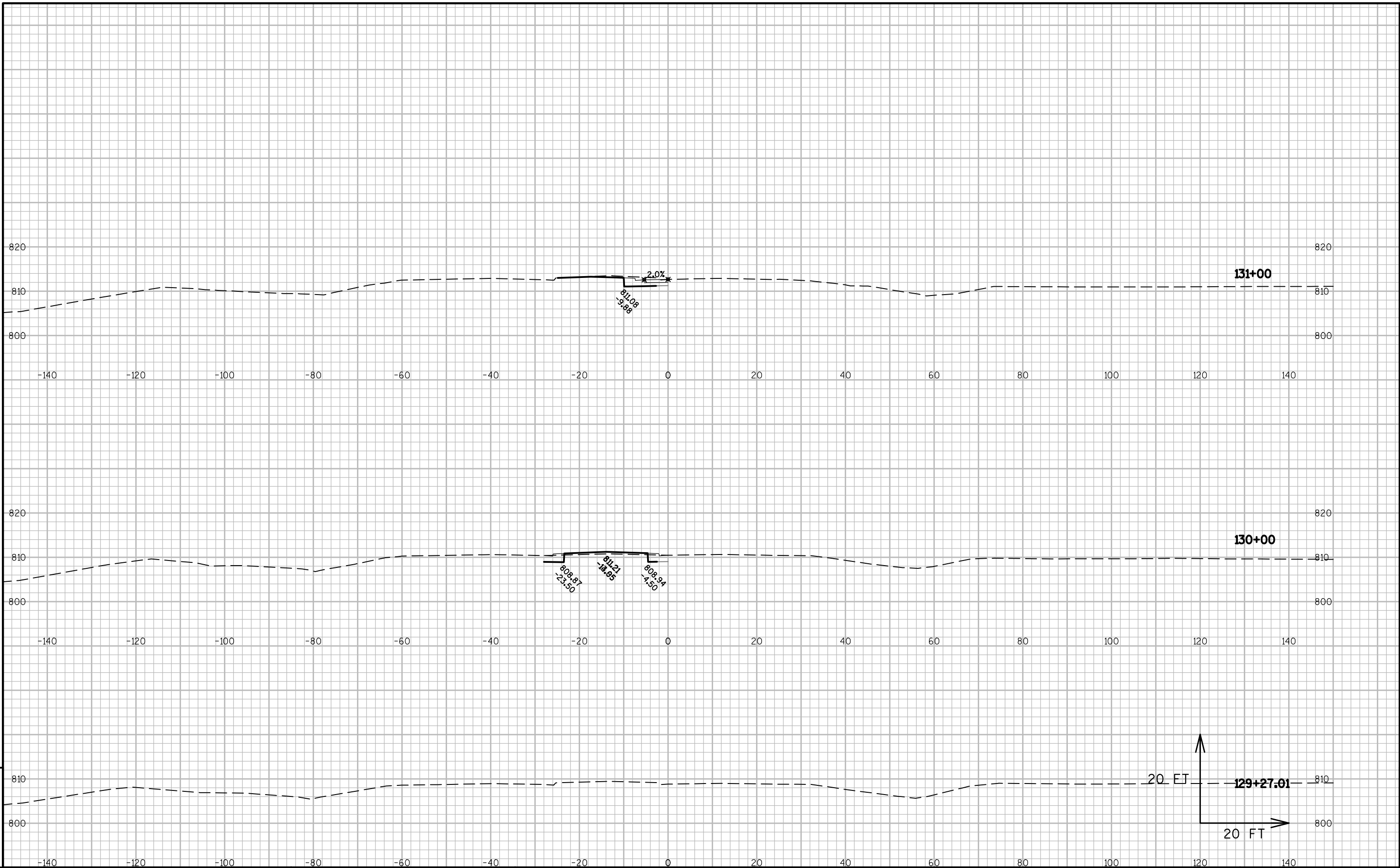
PLATE NO. W04-2.1

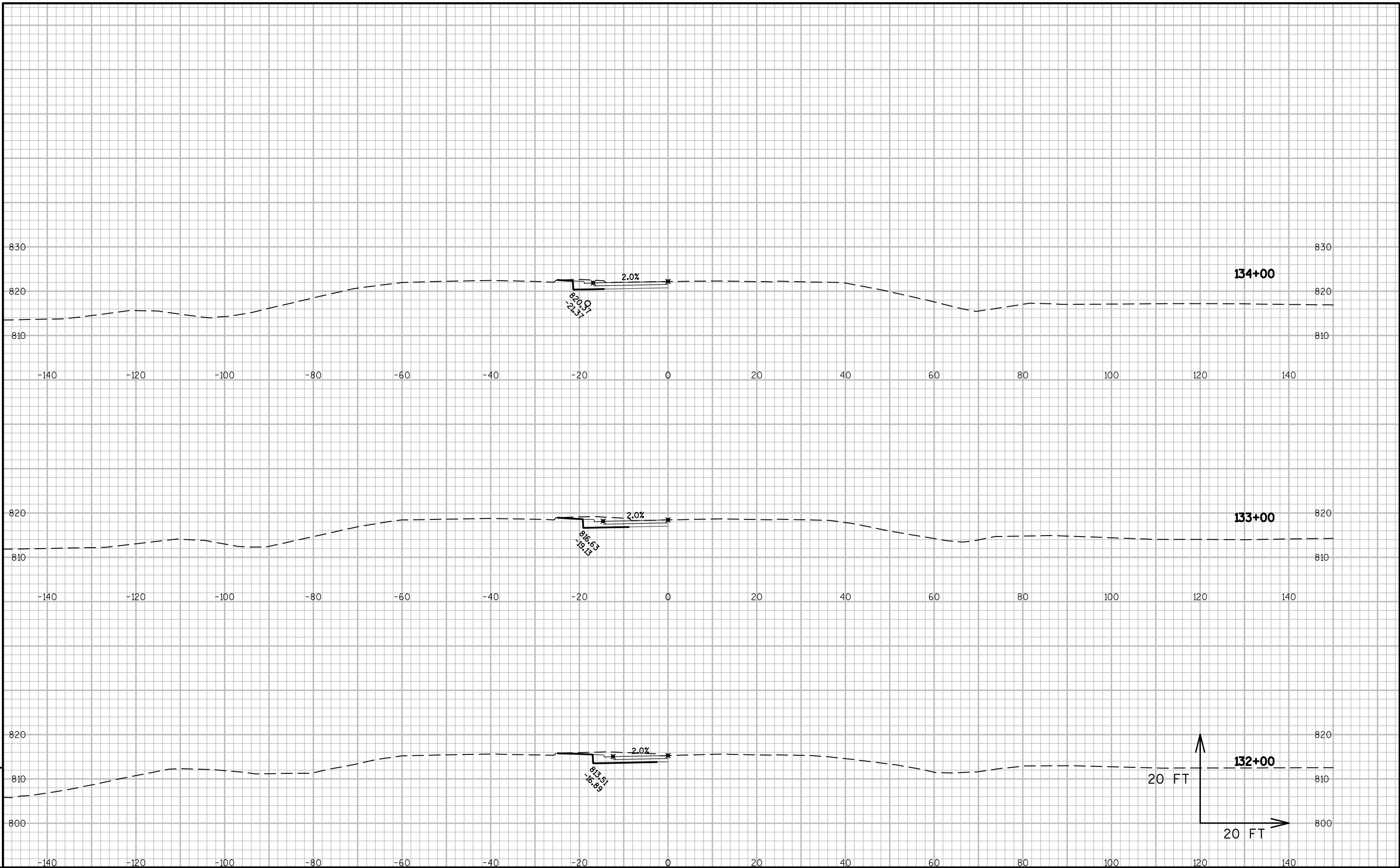
| STATION      | Real Station | Distance | AREA (SF) |      | Incremental Vol (CY) (Unadjusted) |      | Cumulative Vol (CY) |                       | Mass Ordinate |
|--------------|--------------|----------|-----------|------|-----------------------------------|------|---------------------|-----------------------|---------------|
|              |              |          | Cut       | Fill | Cut                               | Fill | Cut<br>1.00         | Expanded Fill<br>1.25 |               |
|              |              |          |           |      |                                   |      |                     |                       |               |
| 129+27.01(1) | 12927.01     | 0.00     | 0.00      | 0.00 | 0                                 | 0    | 0                   | 0                     | 0.00          |
| 129+50(1)    | 12950.00     | 22.99    | 9.41      | 3.15 | 4                                 | 1    | 4                   | 2                     | 2.33          |
| 130+00(1)    | 13000.00     | 50.00    | 10.09     | 7.52 | 18                                | 10   | 22                  | 14                    | 8.05          |
| 130+50(1)    | 13050.00     | 50.00    | 13.19     | 0.03 | 22                                | 7    | 44                  | 23                    | 20.86         |
| 131+00(1)    | 13100.00     | 50.00    | 17.24     | 0.00 | 28                                | 0    | 72                  | 23                    | 49.00         |
| 131+50(1)    | 13150.00     | 50.00    | 28.10     | 0.00 | 42                                | 0    | 114                 | 23                    | 90.98         |
| 132+00(1)    | 13200.00     | 50.00    | 34.75     | 0.00 | 58                                | 0    | 172                 | 23                    | 149.17        |
| 132+50(1)    | 13250.00     | 50.00    | 36.19     | 0.00 | 66                                | 0    | 238                 | 23                    | 214.85        |
| 133+00(1)    | 13300.00     | 50.00    | 25.19     | 0.00 | 57                                | 0    | 294                 | 23                    | 271.69        |
| 133+50(1)    | 13350.00     | 50.00    | 14.73     | 0.00 | 37                                | 0    | 331                 | 23                    | 308.66        |
| 134+00(1)    | 13400.00     | 50.00    | 15.29     | 0.00 | 28                                | 0    | 359                 | 23                    | 336.44        |
| 134+50(1)    | 13450.00     | 50.00    | 17.84     | 0.00 | 31                                | 0    | 390                 | 23                    | 367.11        |
| 135+00(1)    | 13500.00     | 50.00    | 20.73     | 0.00 | 36                                | 0    | 426                 | 23                    | 402.83        |
| 135+50(1)    | 13550.00     | 50.00    | 23.09     | 0.00 | 41                                | 0    | 466                 | 23                    | 443.40        |
| 136+00(1)    | 13600.00     | 50.00    | 0.00      | 0.00 | 21                                | 0    | 488                 | 23                    | 464.78        |
| 136+50(1)    | 13650.00     | 50.00    | 0.00      | 0.00 | 0                                 | 0    | 488                 | 23                    | 464.78        |
| 137+00(1)    | 13700.00     | 50.00    | 0.00      | 0.00 | 0                                 | 0    | 488                 | 23                    | 464.78        |
| 137+50(1)    | 13750.00     | 50.00    | 20.08     | 0.00 | 19                                | 0    | 506                 | 23                    | 483.38        |
| 138+00(1)    | 13800.00     | 50.00    | 19.43     | 0.00 | 37                                | 0    | 543                 | 23                    | 519.96        |
| 138+50(1)    | 13850.00     | 50.00    | 19.11     | 0.00 | 36                                | 0    | 578                 | 23                    | 555.64        |
| 139+00(1)    | 13900.00     | 50.00    | 24.87     | 0.00 | 41                                | 0    | 619                 | 23                    | 596.37        |
| 139+50(1)    | 13950.00     | 50.00    | 29.92     | 0.00 | 51                                | 0    | 670                 | 23                    | 647.10        |
| 140+00(1)    | 14000.00     | 50.00    | 33.92     | 0.00 | 59                                | 0    | 729                 | 23                    | 706.21        |
| 140+50(1)    | 14050.00     | 50.00    | 33.93     | 0.00 | 63                                | 0    | 792                 | 23                    | 769.03        |
| 141+00(1)    | 14100.00     | 50.00    | 24.60     | 0.00 | 54                                | 0    | 846                 | 23                    | 823.21        |
| 141+50(1)    | 14150.00     | 50.00    | 15.39     | 0.21 | 37                                | 0    | 883                 | 23                    | 859.99        |
| 142+00(1)    | 14200.00     | 50.00    | 7.78      | 0.84 | 21                                | 1    | 904                 | 24                    | 880.22        |
| 142+24.64(1) | 14224.64     | 24.64    | 4.38      | 1.25 | 6                                 | 1    | 910                 | 25                    | 884.57        |

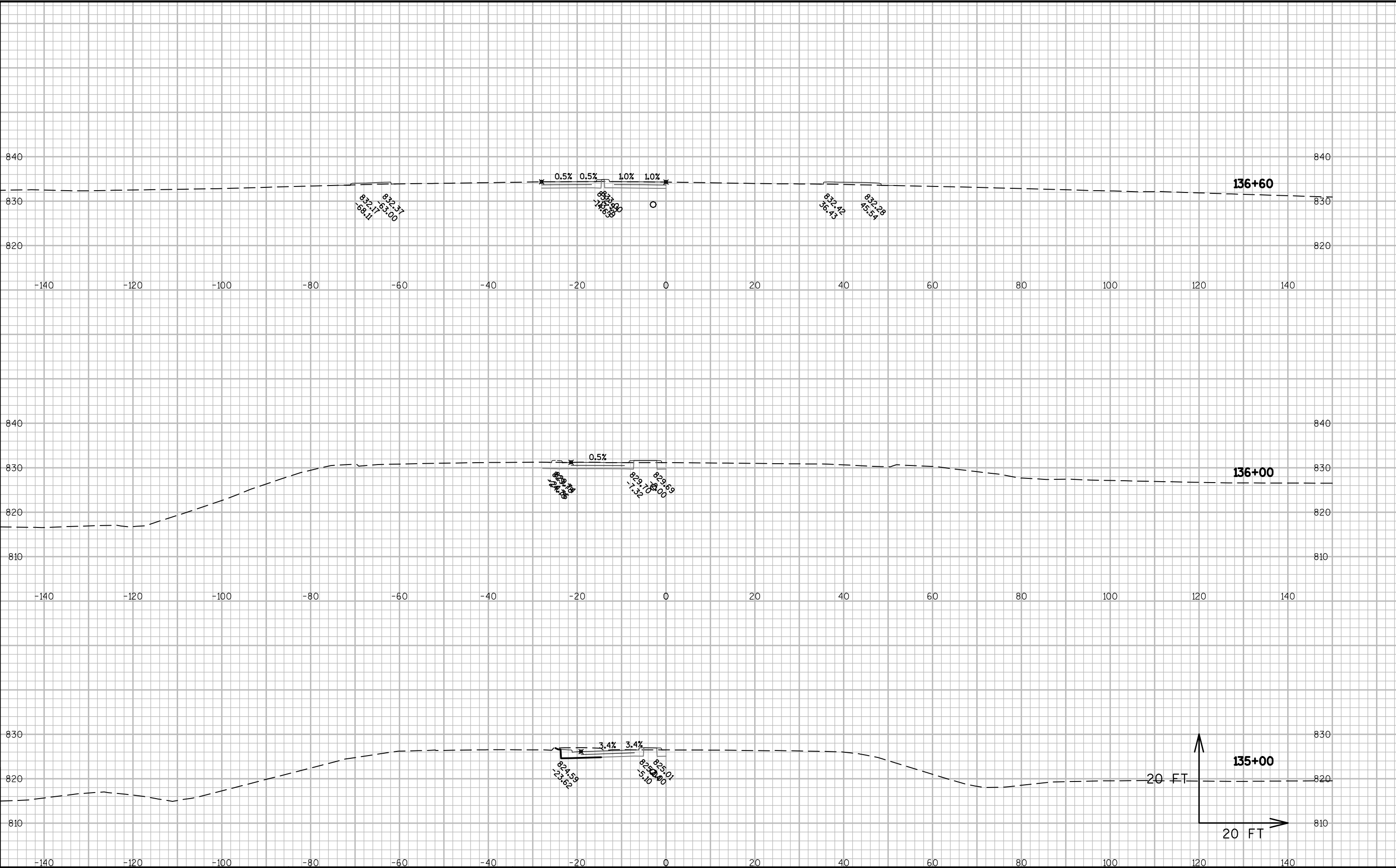
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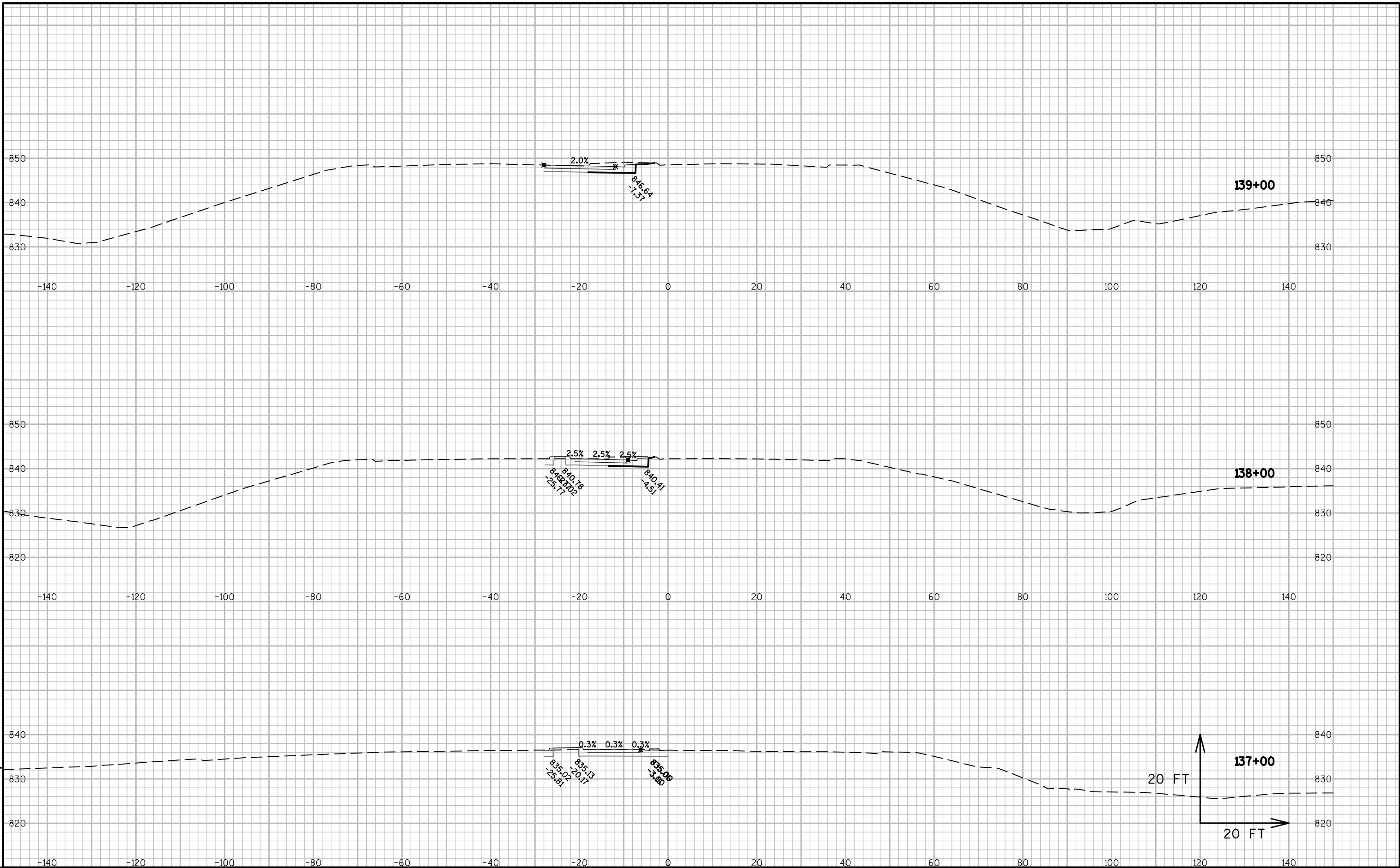
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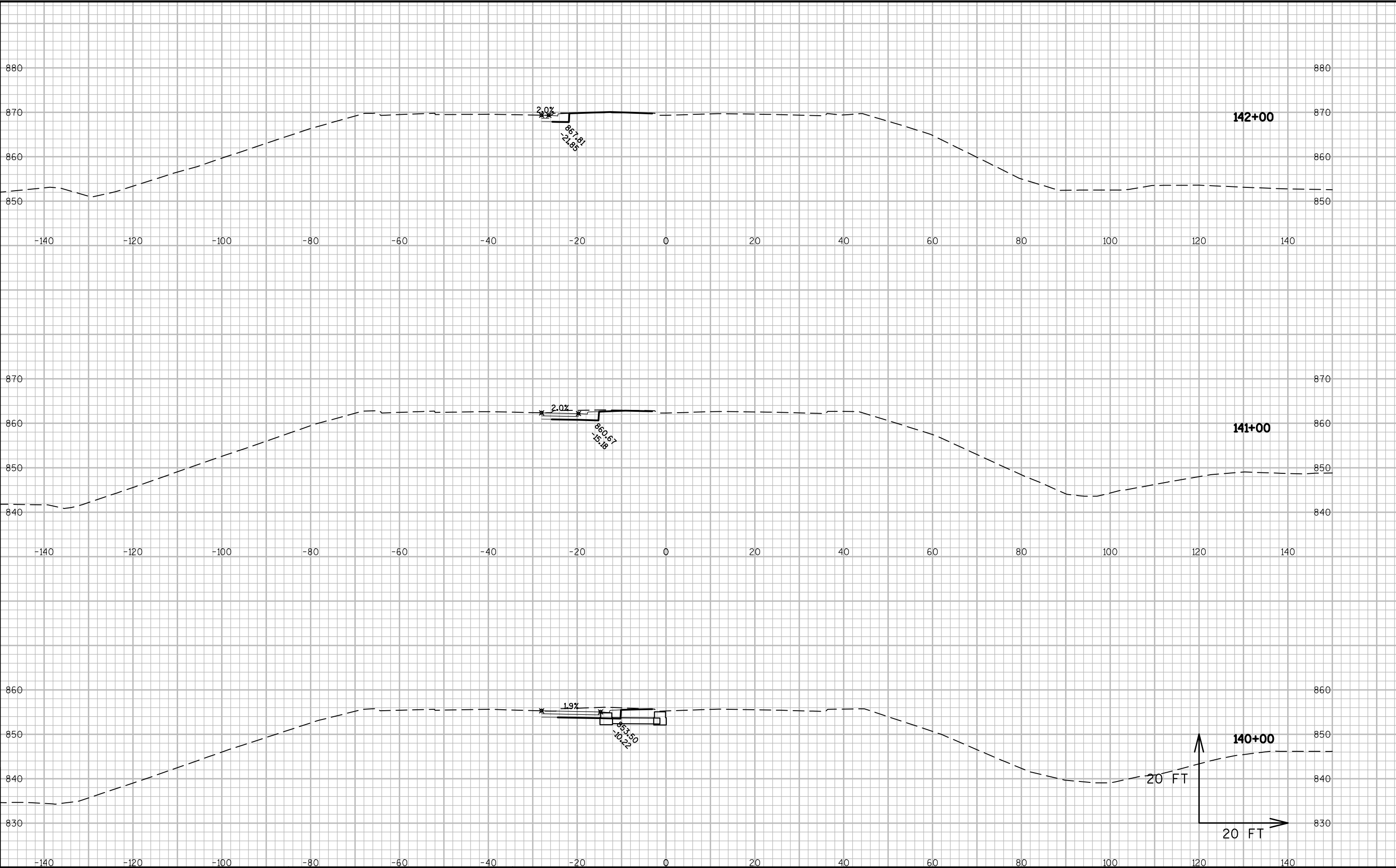
|          |                                                  |
|----------|--------------------------------------------------|
| Notes:   |                                                  |
| 1 - Cut  | Cut includes Salvaged/Unusable Pavement material |
| 3 - Fill | Does not include Unusable Pavement Exc volume    |

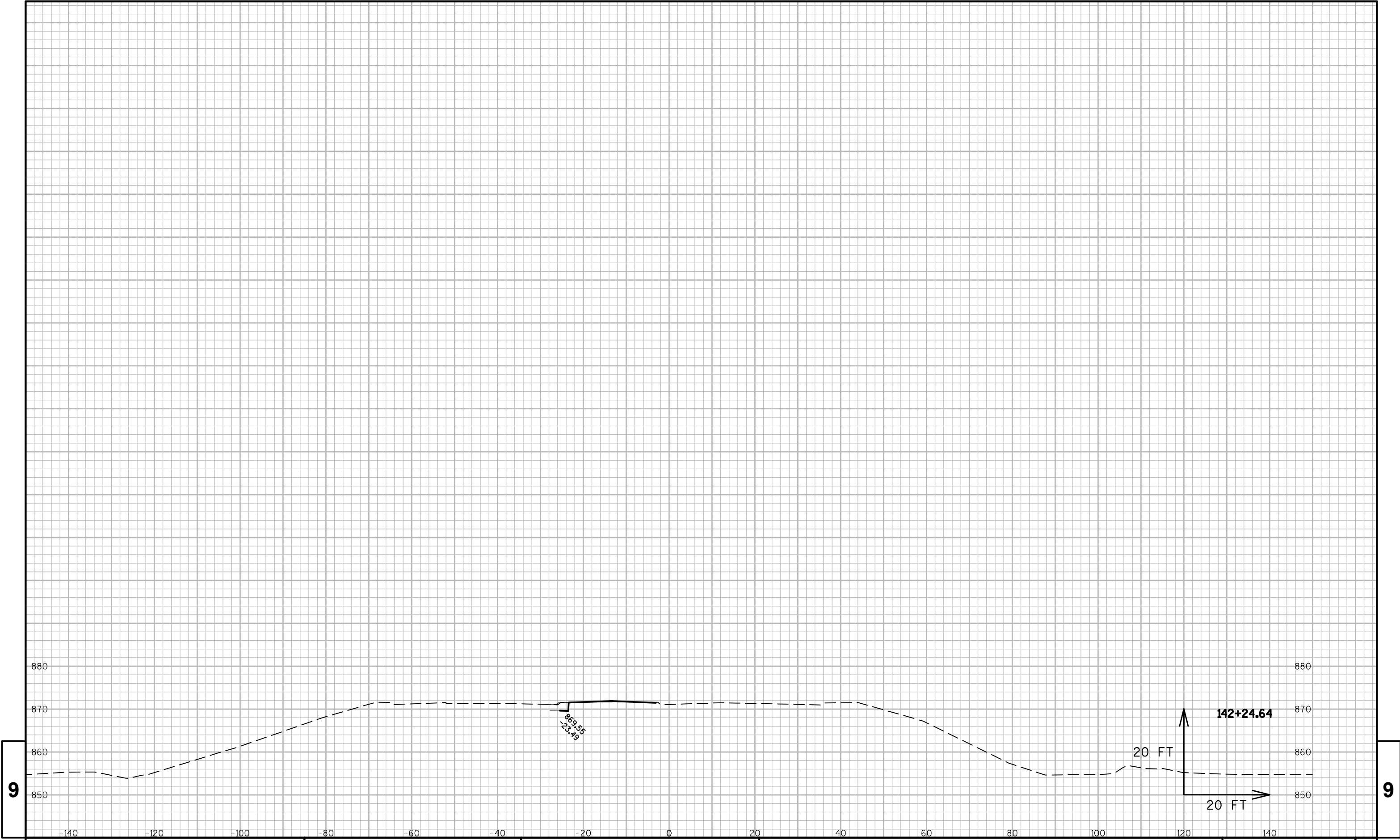




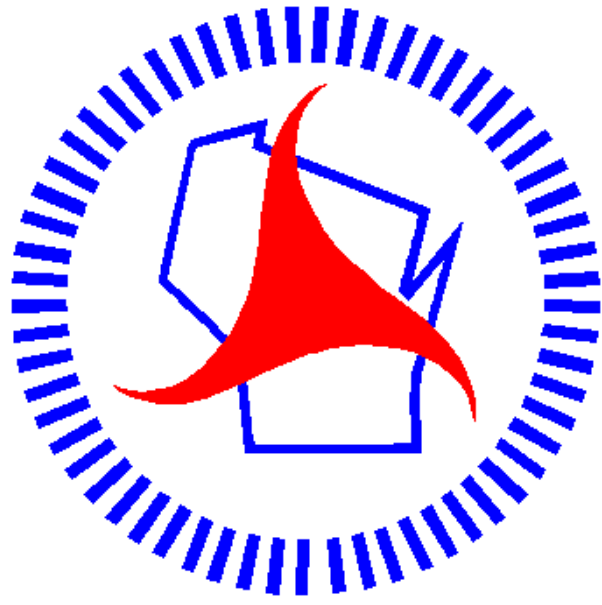








## Notes



## ***Wisconsin Department of Transportation***

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