

GRE

PROJECT ID:
WITH: N/A

6180-29-60

COUNTY: WINNEBAGO

MAY 2019

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 Plat |
| Section No. | 5 | Plan and Profile |
| Section No. | 6 | Standard Detail Drawings |
| Section No. | 7 | Sign Plates |
| Section No. | 8 | Structure Plans |
| Section No. | 9 | Computer Earthwork Data |
| Section No. | 9 | Gross Sections |

TOTAL SHEETS = 92



DESIGN DESIGNATION

| | | | |
|--------------|--------|---|-----------|
| A.A.D.T. | (2019) | = | 5,900 |
| A.A.D.T. | (2039) | = | 7,400 |
| D.H.V. | (2039) | = | 475 |
| D.D. | | = | 60/40 |
| T. | | = | 11.2% |
| DESIGN SPEED | | = | 55 MPH |
| ESALS | | = | 1,900,000 |

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 | |

| | |
|--|--|
| <u>PROFILE</u> | |
| GRADE LINE | |
| ORIGINAL GROUND | |
| MARSH OR ROCK PROFILE (To be noted as such) | |
| SPECIAL DITCH | |
| GRADE ELEVATION | |
| CULVERT (Profile View) | |
| <u>UTILITIES</u> | |
| ELECTRIC | |
| 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

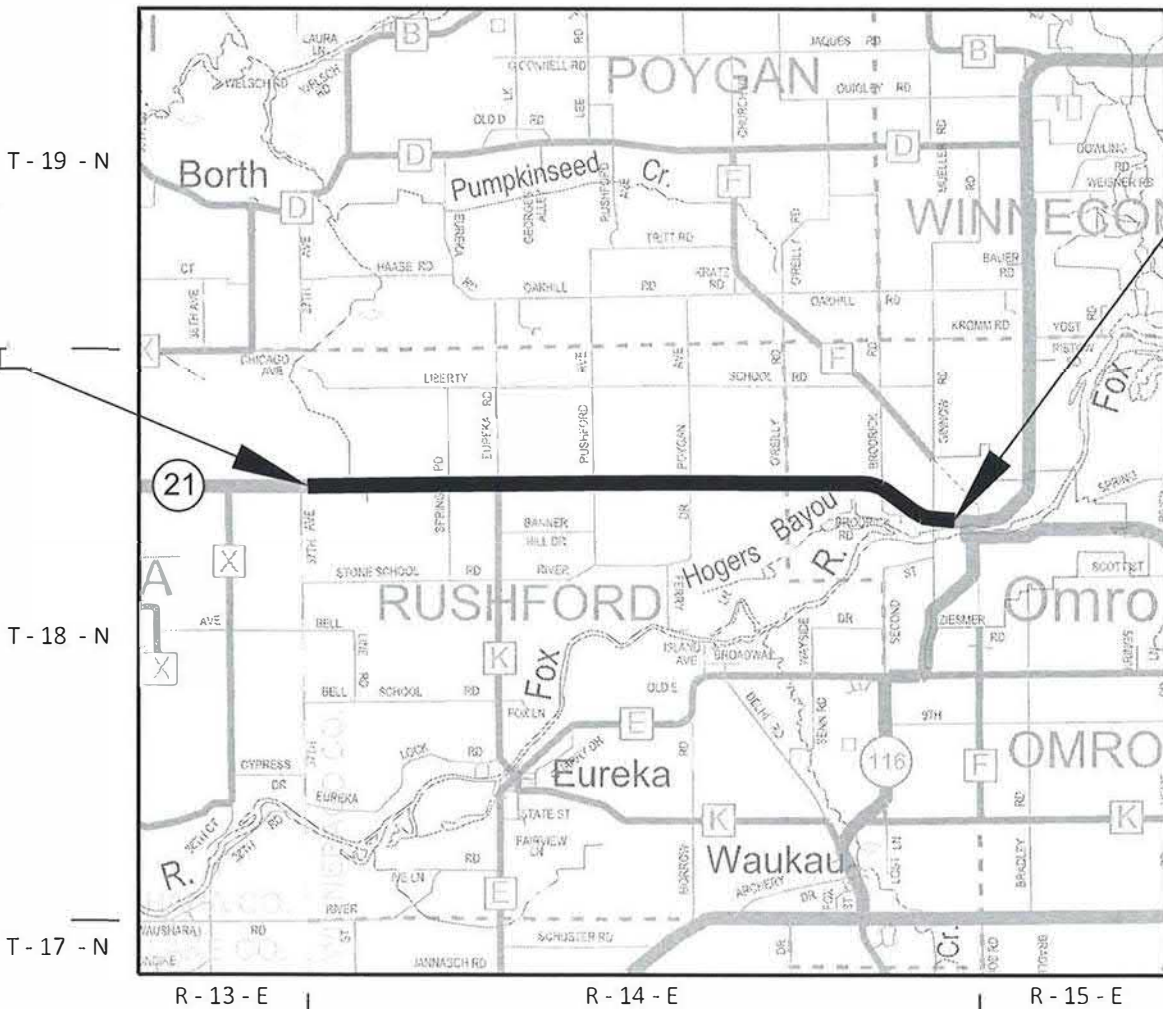
REDGRANITE - OMRO

WCL - STH 116

STH 21

WINNEBAGO COUNTY

STATE PROJECT NUMBER
6180-29-60



BEGIN PROJECT
STA 103+34.54
X = 701,755.01
Y = 484,659.96

END PROJECT
STA 466+50.11

ORIGINAL PLANS PREPARED BY:



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



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

| | |
|---------------------|-------------------------|
| Surveyor | STRAND ASSOCIATES, INC. |
| Designer | STRAND ASSOCIATES, INC. |
| Project Manager | WILLIAM BERTRAND, P.E. |
| Regional Examiner | |
| Regional Supervisor | CHARLES KAROW, P.E. |

APPROVED FOR THE DEPT

7-20-2018

DATE:

William R. Bertrand

(Signature)

GENERAL NOTES

THE CENTERLINE OF STH 21 IS APPROXIMATELY THE MAINLINE REFERENCE LINE.

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE IS MEASURED FOR PAYMENT IN TONS, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

EXACT LOCATIONS AND WIDTHS OF DRIVEWAYS AND PRIVATE FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THAT AREA.

ADJUST THE LOCATIONS OF CONTRACT ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT SPECIAL PROVISIONS.

ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEIR REMOVAL OR UNLESS THE ENGINEER APPROVES THEIR REMOVAL.

THE CONTRACTORS'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, PASSING, OR TURNING LANE.

SECTION 2 ORDER OF SHEETS

- GENERAL NOTES
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- PERMANENT SIGNING
- TRAFFIC CONTROL - ADVANCE WARNING SIGNING

HMA PAVEMENT SUMMARY TABLE

| 2" HMA PAVEMENT (OVERLAY) | | |
|---------------------------|-----------|--------------|
| LAYER | THICKNESS | HMA TYPE |
| UPPER LAYER | 2" | 4 MT 58-28 S |

UTILITY CONTACTS

ALLIANT ENERGY - ELECTRICITY AND GAS/PETROLEUM
MARK VILLARS
880 N. WISCONSIN STREET
BERLIN, WI 54923
920-361-5652
MARKVILLARS@ALLIANTENERGY.COM

AT&T WISCONSIN - COMMUNICATION LINE
CHARLES BARTELT
70 E. DIVISION STREET
FOND DU LAC, WI 54986
920-929-1013
CELL 920-410-5104
CB1461@ATT.COM

ATC MANAGEMENT, INC. - ELECTRICITY TRANSMISSION
GERALD RHODE
801 O'KEEFE ROAD
PO BOX 6113
DE PERE, WI 54115
920-338-6523
GRHODE@ATCLLC.COM

CENTURYLINK - COMMUNICATION LINE
TIM KROEZE
19 W. FOND DU LAC STREET
RIPON, WI 54971
920-748-8491
TIM.KROEZE@CENTURYLINK.COM

CHARTER COMMUNICATIONS - COMMUNICATION LINE
TODD HILDEBRANDT
165 KNIGHTS WAY
FOND DU LAC, WI 54935
920-794-4946
TODD.HILDEBRANDT@CHARTER.COM

CITY OF OMRO WATER AND SEWER UTILITY - WATER AND SEWER
MARK VAN PELT
720 HAWTHORNE DRIVE
OMRO, WI 54963
920-685-7020
MVANPELT1@ATT.NET



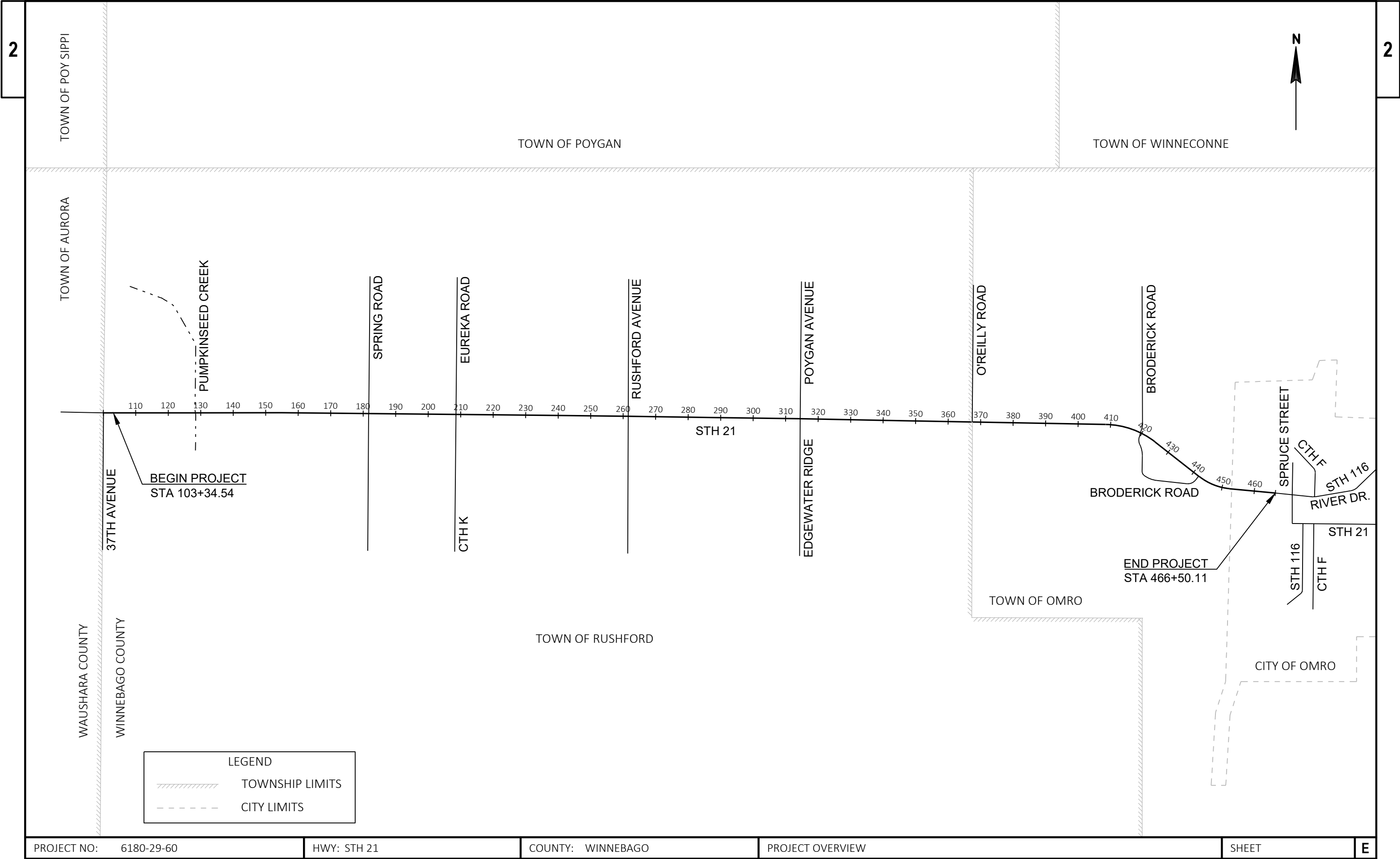
Dial 811 or (800)242-8511
www.DiggersHotline.com

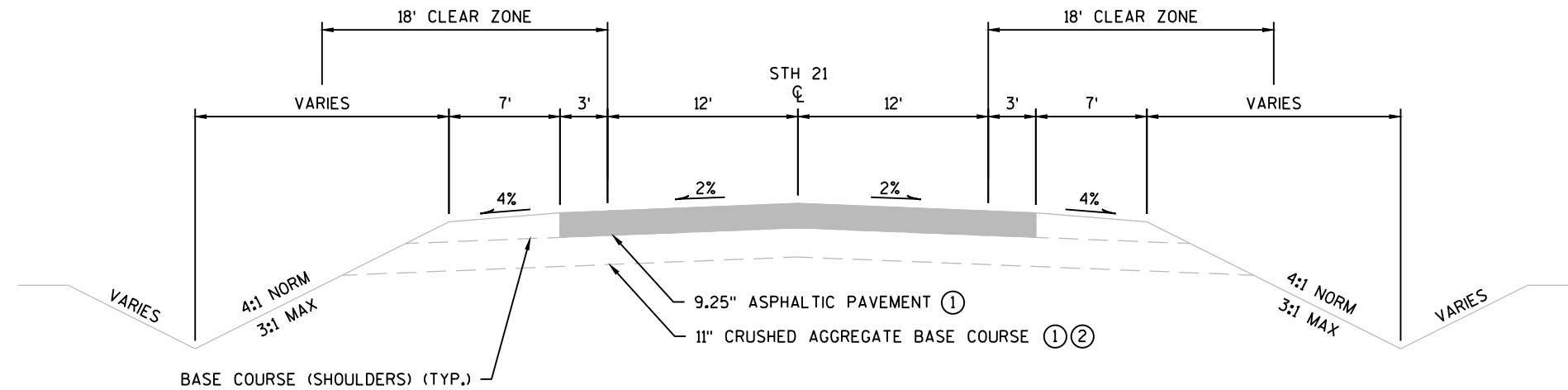
DNR LIAISON

JAY SCHIEFELBEIN
DNR NORTHEAST REGIONAL HEADQUARTERS
2984 SHAWANO AVE
GREEN BAY, WI 54313
920-360-3784
JEREMIAH.SCHIEFELBEIN@WI.GOV

WISDOT REGION SURVEY COORDINATOR

CORMAC MCINNIS
NORTHEAST REGION SURVEY COORDINATOR
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-5638
CORMAC.MCINNIS@DOT.WI.GOV



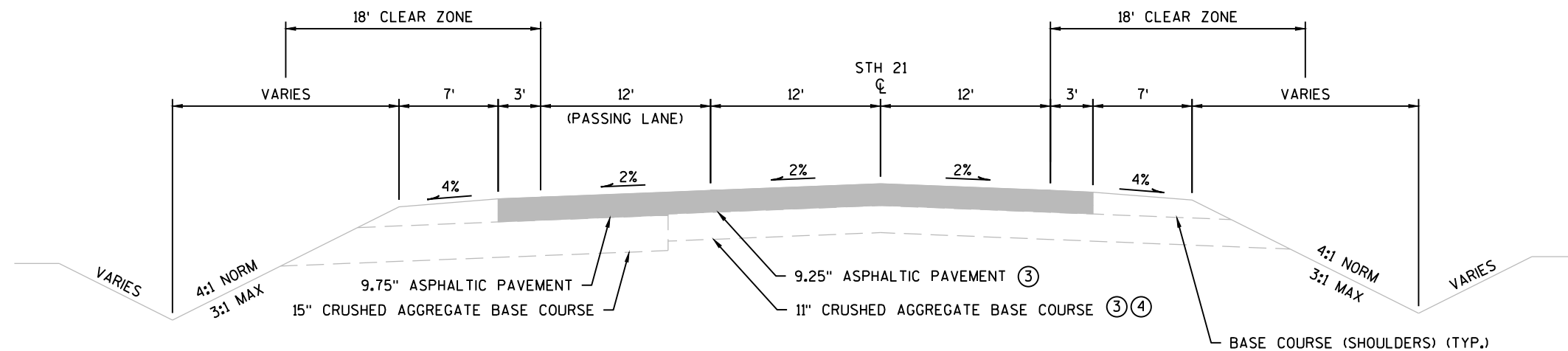


EXISTING TYPICAL SECTION - STH 21 MAINLINE

STA. 103+35 - STA. 115+11
STA. 176+36 - STA. 466+50

- ① FROM STA. 103+35 - STA. 115+11 THE PAVEMENT STRUCTURE CONSISTS OF 8.25" ASPHALTIC PAVEMENT OVER UNKNOWN THICKNESSES OF EXISTING ASPHALTIC PAVEMENT AND EXISTING CONCRETE PAVEMENT ACCORDING TO THE 1986 ROADWAY PLANS UNDER PROJECT ID 6184-04-71.
- ② THE PAVEMENT STRUCTURE UNDER THE 9.25" OF ASPHALTIC PAVEMENT CONSISTS OF 6" CRUSHED AGGREGATE BASE COURSE OVER EXISTING CRACK AND SEATED CONCRETE PAVEMENT ACCORDING TO THE 1986 ROADWAY PLANS UNDER PROJECT ID 6184-04-71 WITHIN THE FOLLOWING STATION RANGES:

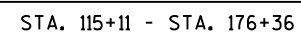
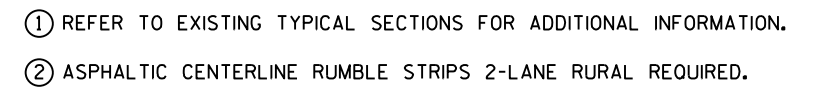
STA. 176+36 - STA. 199+00
STA. 248+00 - STA. 251+00
STA. 341+00 - STA. 392+00



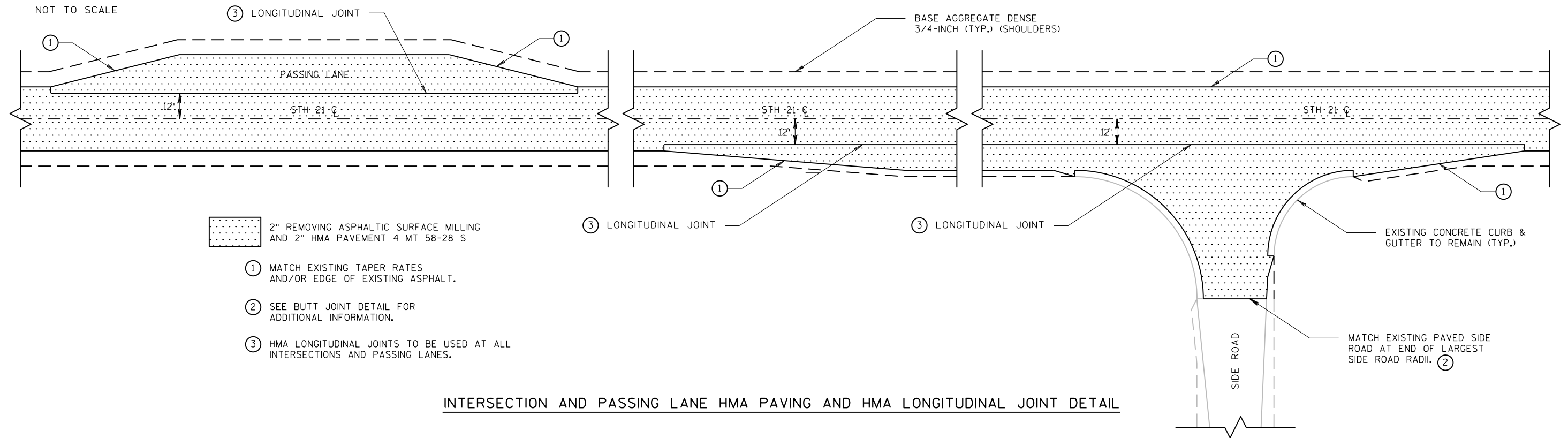
EXISTING TYPICAL SECTION - STH 21 MAINLINE (PASSING LANE)

STA. 115+11 - STA. 176+36

- ③ FROM STA. 115+11 - STA. 138+00 THE PAVEMENT STRUCTURE CONSISTS OF 8.25" ASPHALTIC PAVEMENT OVER UNKNOWN THICKNESSES OF EXISTING ASPHALTIC PAVEMENT AND EXISTING CONCRETE PAVEMENT ACCORDING TO THE 1986 AND 2006 ROADWAY PLANS UNDER PROJECT ID'S 6184-04-71 AND 6180-13-71.
- ④ FROM STA. 154+00 - STA. 176+36 THE PAVEMENT STRUCTURE UNDER THE 9.25" OF ASPHALTIC PAVEMENT CONSISTS OF 6" CRUSHED AGGREGATE BASE COURSE OVER EXISTING CRACK AND SEATED CONCRETE PAVEMENT ACCORDING TO THE 1986 ROADWAY PLANS UNDER PROJECT ID 6184-04-71.

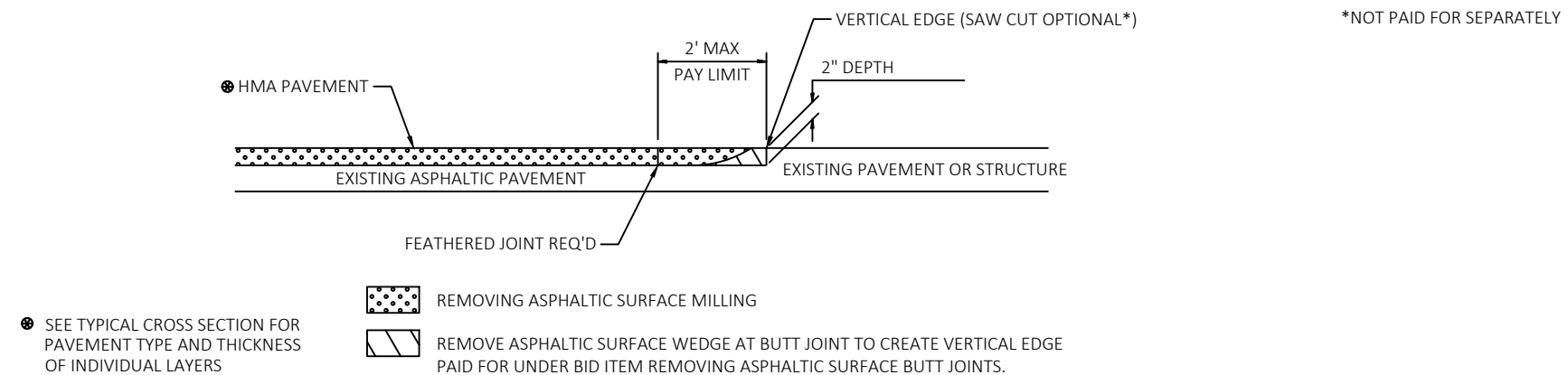


2



2 |

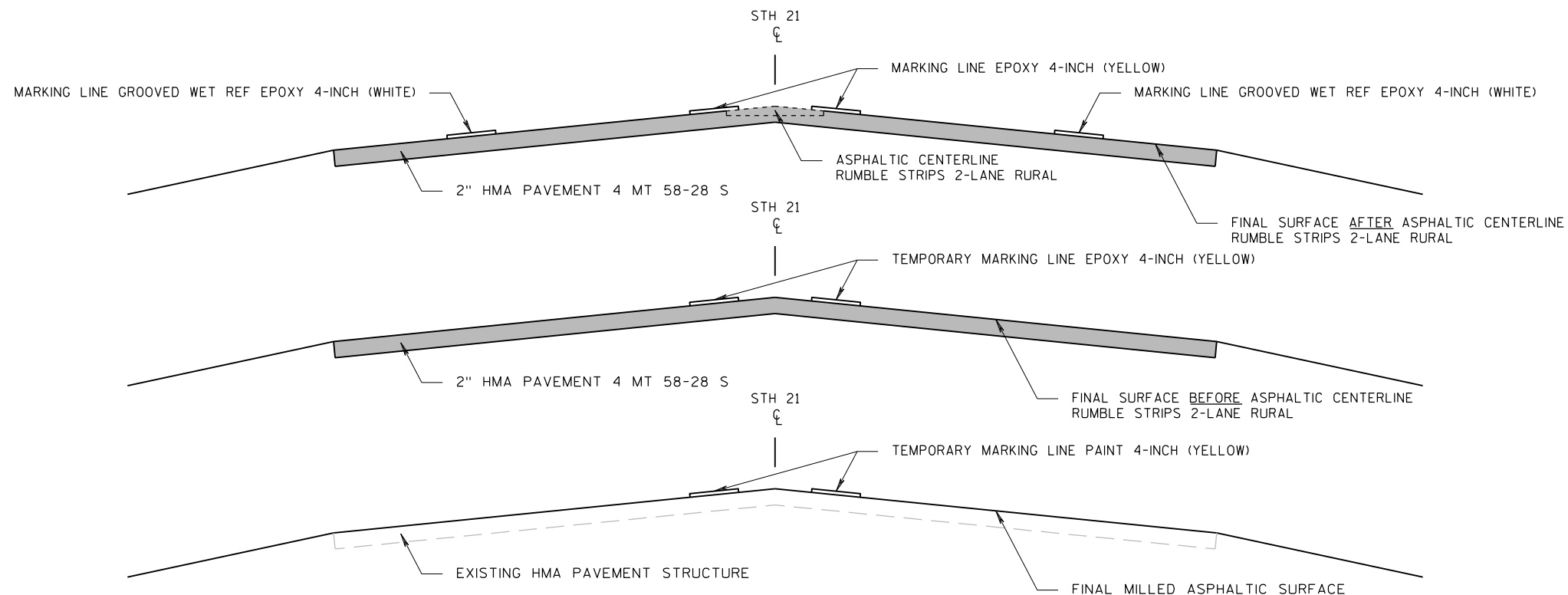
NOT TO SCALE



REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAIL (NO PROFILE CHANGE)

MAINLINE AND SIDE ROADS

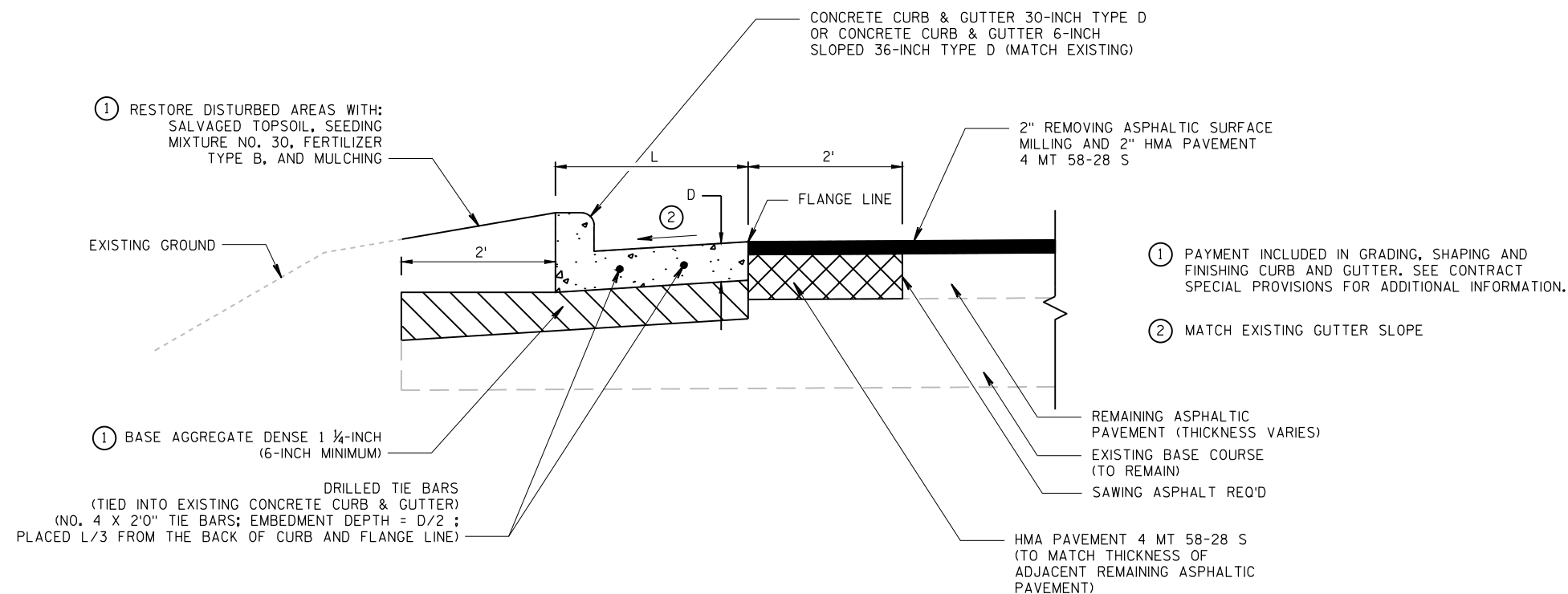
NOT TO SCALE



PAVEMENT MARKING APPLICATION SEQUENCE DETAIL

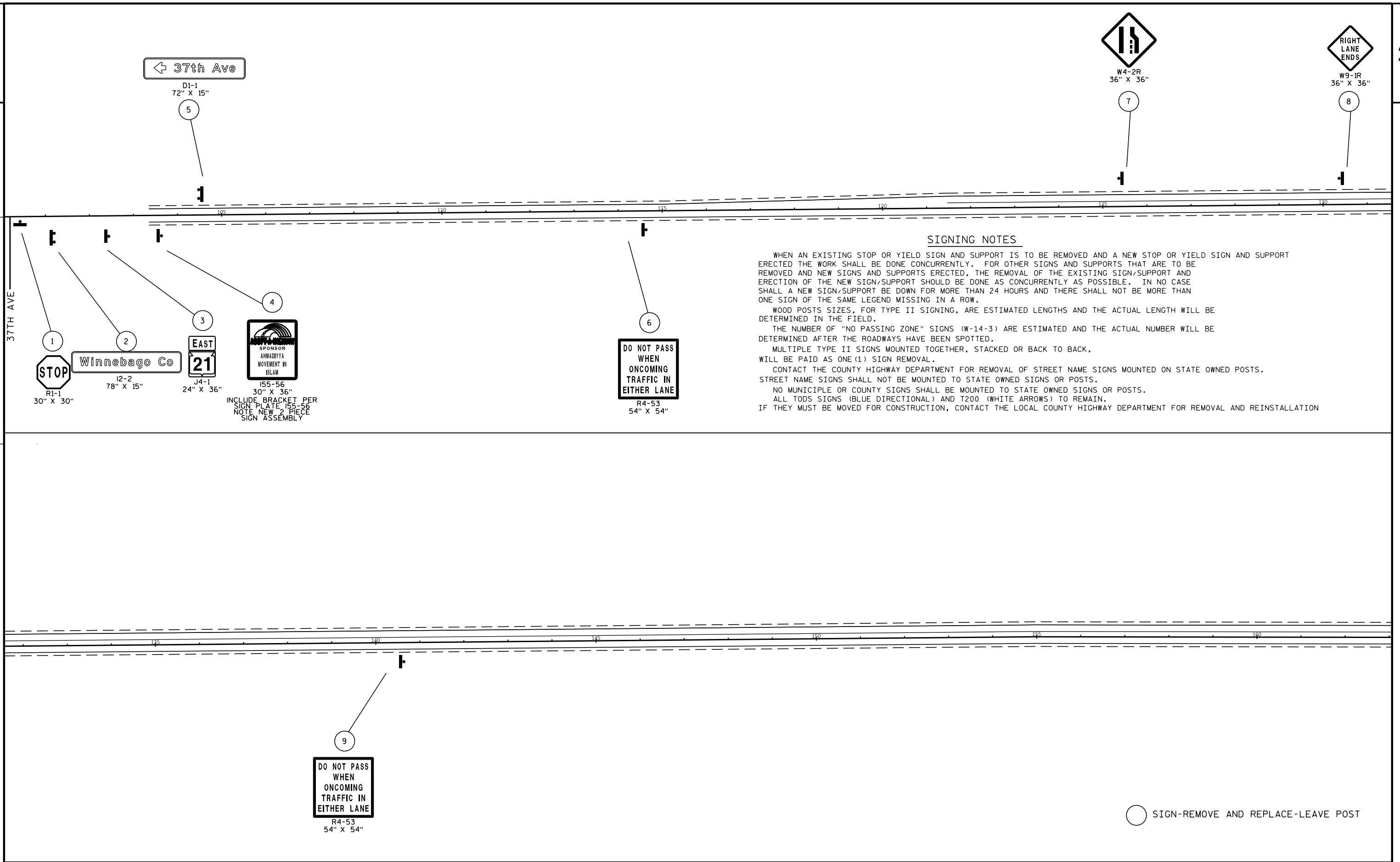
NOTE: ALL NEW CENTERLINE PASSING/NO PASSING PAVEMENT MARKING (BEGIN/END) LOCATIONS TO MATCH EXISTING PASSING/NO PASSING MARKING (BEGIN/END) LOCATIONS.

NOT TO SCALE



CONCRETE CURB & GUTTER SPOT REPLACEMENT

CTH K AND RUSHFORD AVENUE



SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD 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.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK, WILL BE PAID AS ONE (1) SIGN REMOVAL.

CONTACT THE COUNTY HIGHWAY DEPARTMENT FOR REMOVAL OF STREET NAME SIGNS MOUNTED ON STATE OWNED POSTS.

STREET NAME SIGNS SHALL NOT BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

NO MUNICIPAL OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

ALL TODS SIGNS (BLUE DIRECTIONAL) AND T200 (WHITE ARROWS) TO REMAIN.

IF THEY MUST BE MOVED FOR CONSTRUCTION, CONTACT THE LOCAL COUNTY HIGHWAY DEPARTMENT FOR REMOVAL AND REINSTALLATION

○ SIGN-REMOVE AND REPLACE-LEAVE POST

| | | | | | |
|-----------------------|-------------|-------------------|-------------------|-------|---|
| PROJECT NO:6180-29-60 | HWY: STH 21 | COUNTY: WINNEBAGO | PERMANENT SIGNING | SHEET | E |
|-----------------------|-------------|-------------------|-------------------|-------|---|

SIGNING NOTES

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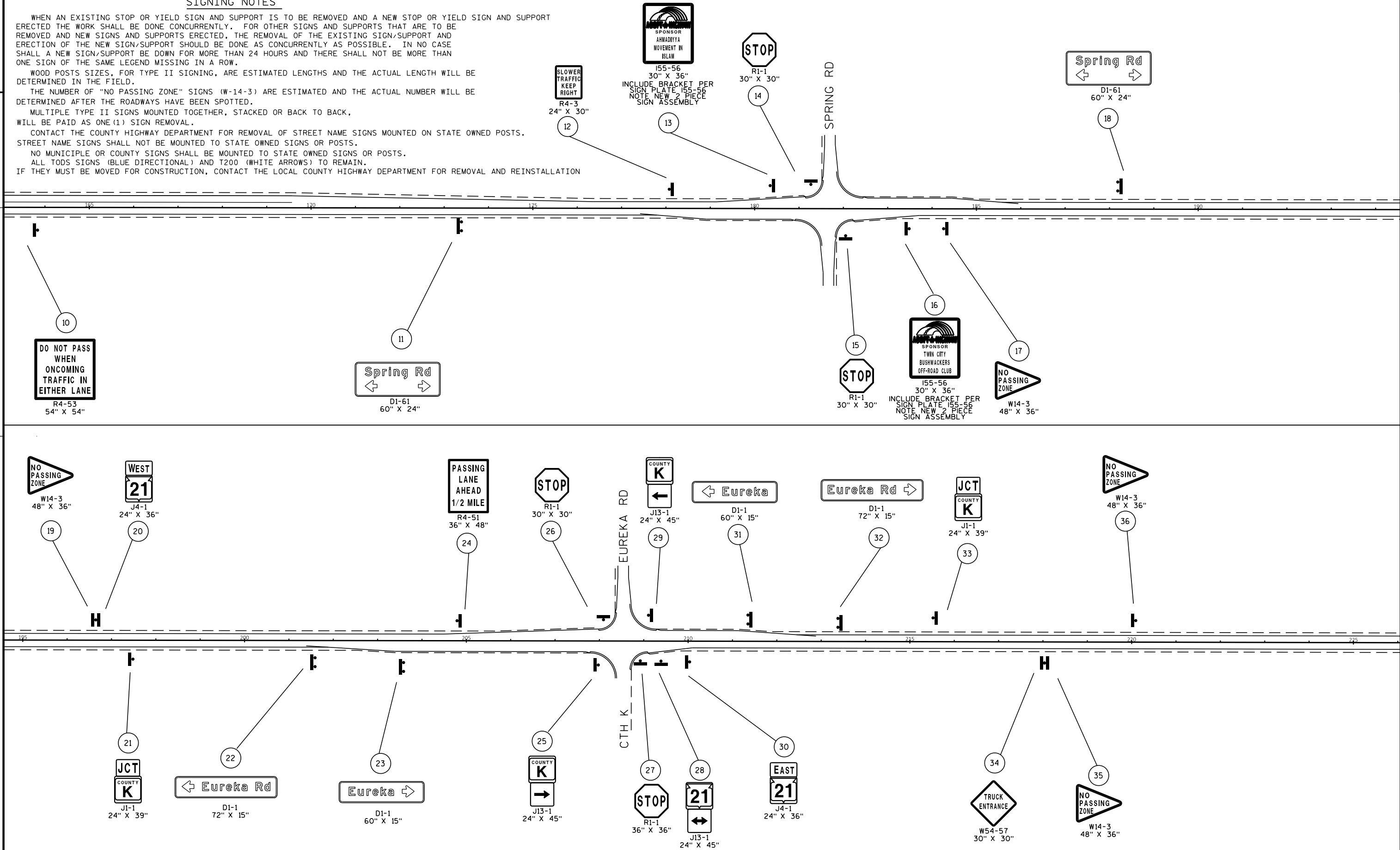
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| | | | | | |
|------------------------|-------------|-------------------|-------------------|-------|---|
| PROJECT NO: 6180-29-60 | HWY: STH 21 | COUNTY: WINNEBAGO | PERMANENT SIGNING | SHEET | E |
|------------------------|-------------|-------------------|-------------------|-------|---|

PASSING
LANE
AHEAD
1 MILE

R4-51
36" X 48"

37

TRUCK
ENTRANCE

W54-57
30" X 30"

38

SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD 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
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MULTIPLE TYPE II SIGNS MOUNTED TOGETHER, STACKED OR BACK TO BACK,
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IF THEY MUST BE MOVED FOR CONSTRUCTION, CONTACT THE LOCAL COUNTY HIGHWAY DEPARTMENT FOR REMOVAL AND REINSTALLATION

NO
PASSING
ZONE

W14-3
48" X 36"

39

Rushford Ave
← →

D1-61
78" X 24"

40

SPONSOR
TWIN CITY
BUSHWACKERS
OFF-ROAD CLUB

I55-56
30" X 36"

INCLUDE BRACKET PER
SIGN PLATE I55-56
NOTE NEW 2 PIECE
SIGN ASSEMBLY

41

STOP

R1-1
30" X 30"

42

RUSHFORD AVE

Rushford Ave
← →

D1-61
78" X 24"

45

NO
PASSING
ZONE

W14-3
48" X 36"

46

SPONSOR
BEST BUY
USHKOSH
*1890

I55-56
30" X 36"

INCLUDE BRACKET PER
SIGN PLATE I55-56
NOTE NEW 2 PIECE
SIGN ASSEMBLY

STOP

R1-1
30" X 30"

43

44



S3-1
36" X 36"

47



J4-1
24" X 36"

50



R1-1
30" X 30"

51



W14-3
48" X 36"

54

POYGAN AVE

SIGNING NOTES

WHEN AN EXISTING STOP OR YIELD SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP OR YIELD 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.

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ALL TODS SIGNS (BLUE DIRECTIONAL) AND T200 (WHITE ARROWS) TO REMAIN.

IF THEY MUST BE MOVED FOR CONSTRUCTION, CONTACT THE LOCAL COUNTY HIGHWAY DEPARTMENT FOR REMOVAL AND REINSTALLATION



W14-3
48" X 36"

48



D1-2
108" X 30"

49



R1-1
30" X 30"

52



J4-1
24" X 36"

53

← Edgewater Ridge

Poygan Ave →

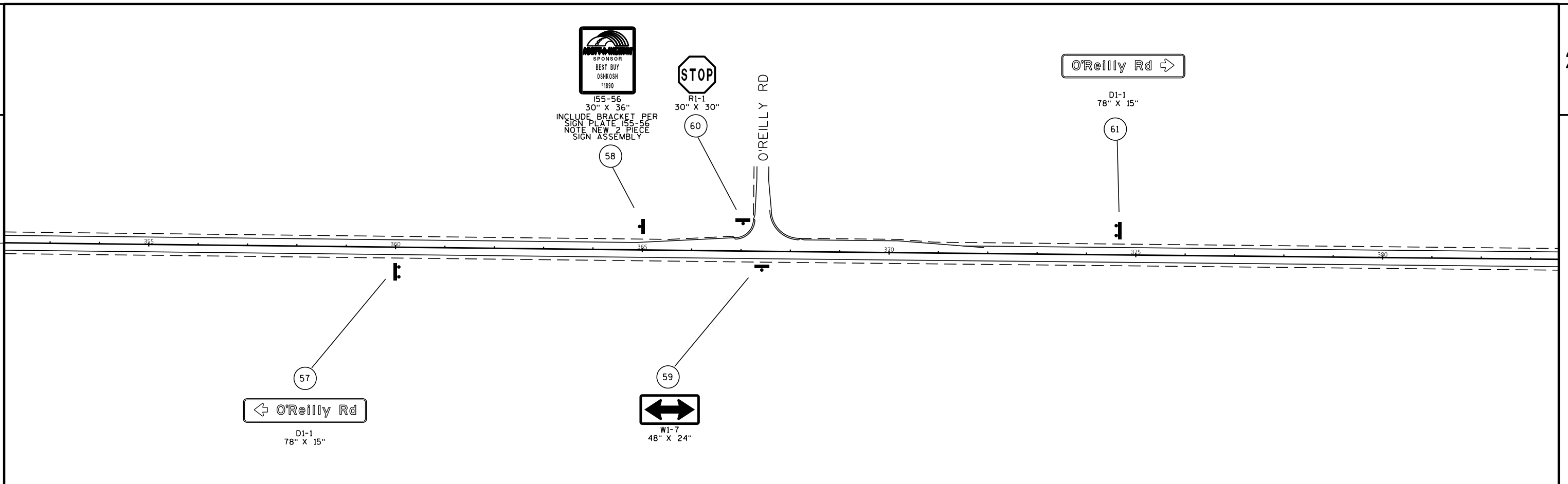
D1-2
108" X 30"

55



W14-3
48" X 36"

56



SIGNING NOTES

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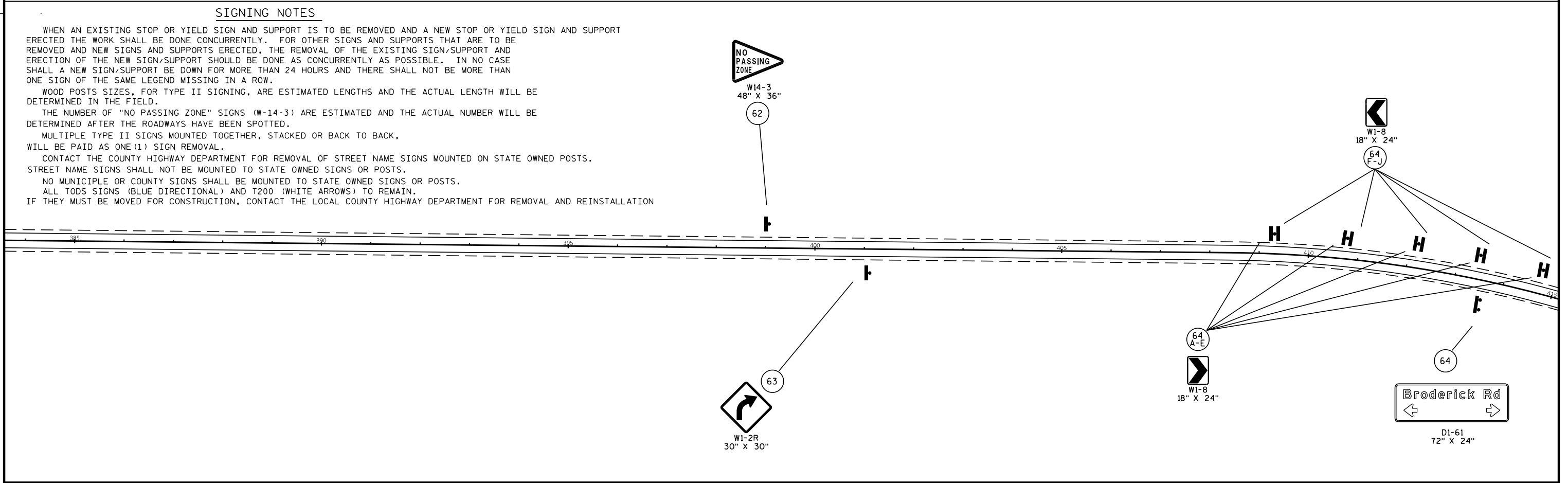
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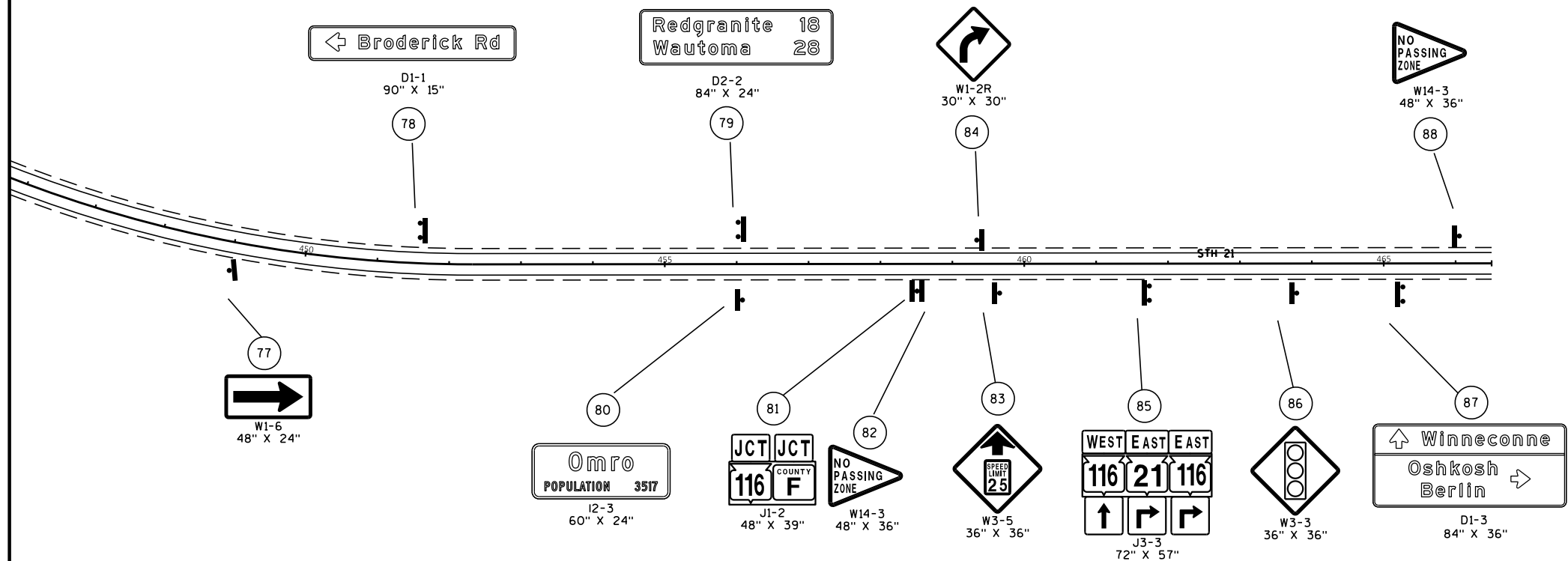
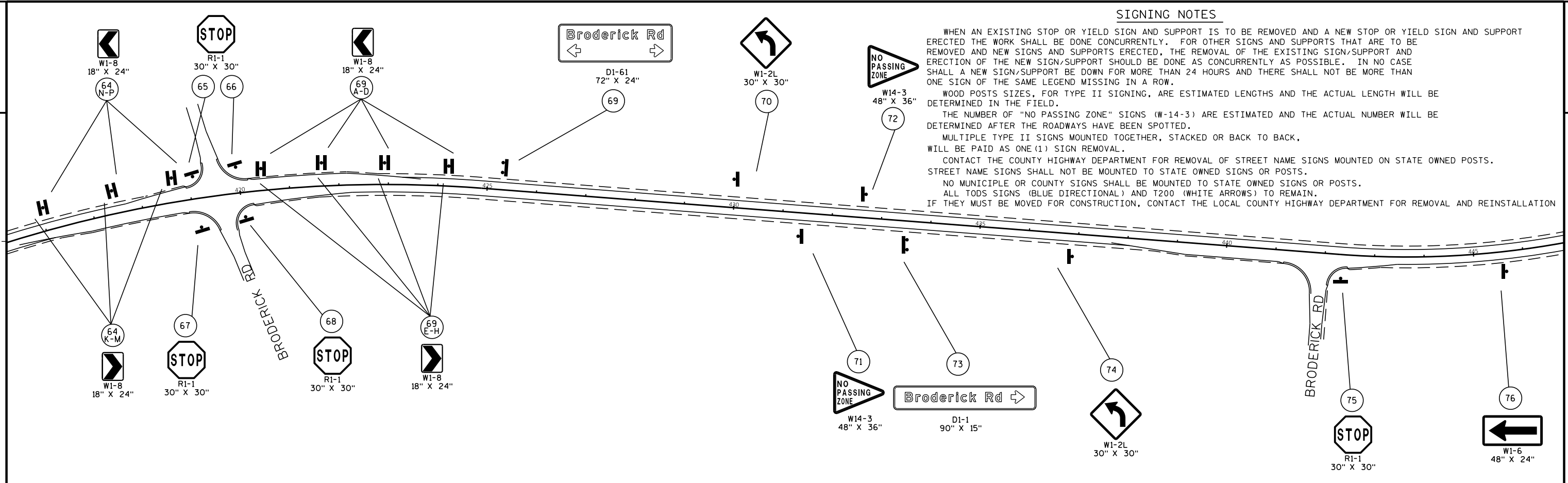
NO MUNICIPAL OR COUNTY SIGNS SHALL BE MOUNTED TO STATE OWNED SIGNS OR POSTS.

ALL TODS SIGNS (BLUE DIRECTIONAL) AND T200 (WHITE ARROWS) TO REMAIN.

IF THEY MUST BE MOVED FOR CONSTRUCTION, CONTACT THE LOCAL HWY DEPARTMENT FOR REMOVAL AND REINSTALLATION



| | | | | | |
|------------------------|-------------|-------------------|-------------------|-------|---|
| PROJECT NO: 6180-29-60 | HWY: STH 21 | COUNTY: WINNEBAGO | PERMANENT SIGNING | SHEET | E |
|------------------------|-------------|-------------------|-------------------|-------|---|



GENERAL NOTES FOR TRAFFIC CONTROL

ALL SIGN LOCATIONS ARE APPROXIMATE THE ACTUAL LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCES OF OPERATION.

TEMPORARY OR PERMANENT SIGNS WHICH CONFLICT WITH THE STAGED TRAFFIC CONTROL PLAN SHALL BE REMOVED OR COVERED.

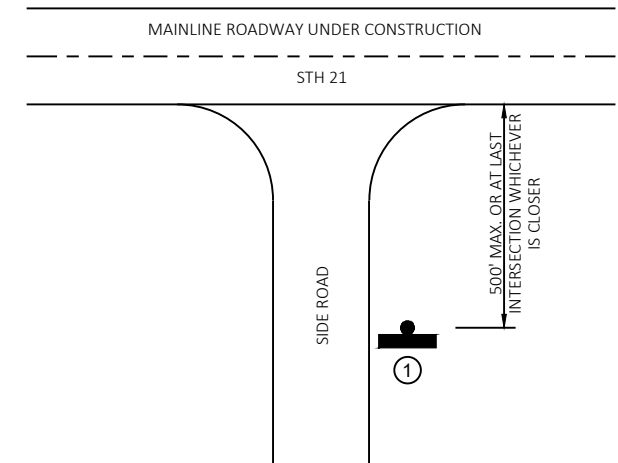
EXISTING TRAFFIC SIGNS MAY REQUIRE RELOCATION DURING STAGES OF CONSTRUCTION AND SHALL BE LOCATED AS REQUIRED BY THE ENGINEER IN THE FIELD AND SHALL BE CONSIDERED INCIDENTAL TO THE TRAFFIC CONTROL ITEM.

ROAD MACHINERY, TRUCK ENTRANCE, FLAGMEN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO WARNING LIGHT SHALL BE USED WITH A COVERED SIGN.

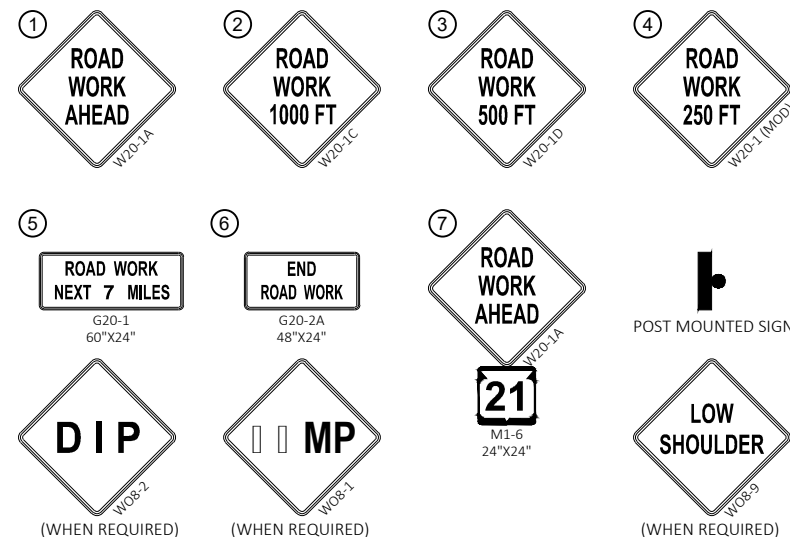
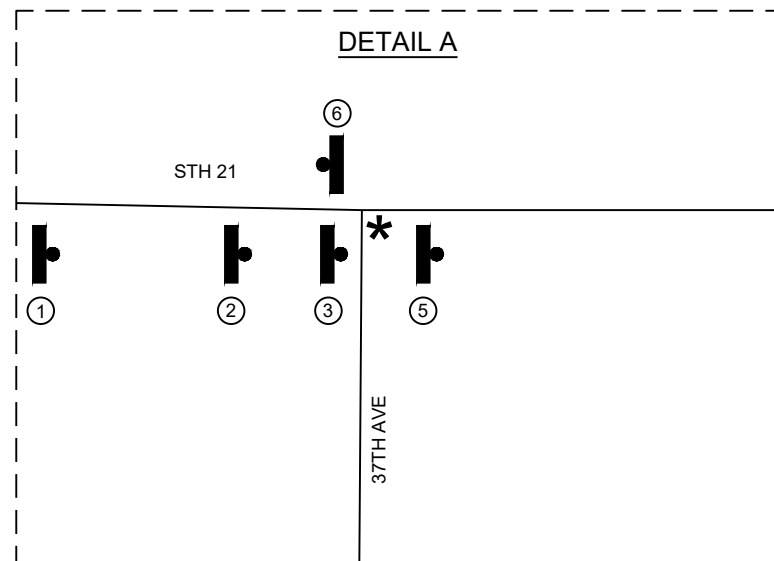
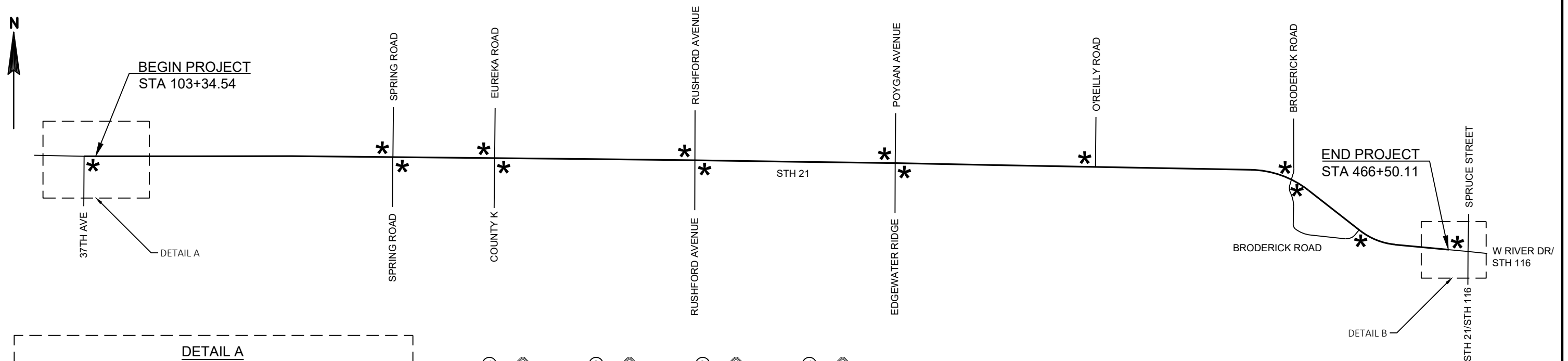
"WO" SERIES SIGNS ARE "W" SERIES EXCEPT THE BACKGROUND IS ORANGE.

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

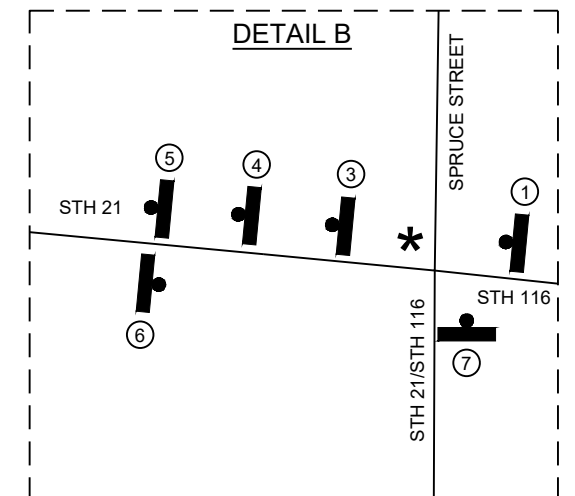
DETAILS OF TRAFFIC CONTROL NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



* TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL



FOR ADDITIONAL INFORMATION SEE STANDARD DETAIL DRAWINGS:
"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
"TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"
"MOVING PAVEMENT MARKING OPERATION - TWO-LANE TWO-WAY ROADWAY"
"TRAFFIC CONTROL FOR DROP-OFF SIGNING"



Estimate Of Quantities

6180-29-60

| Line | Item | Item Description | Unit | Total | Qty |
|------|------------|---|------|-------------|-------------|
| 0002 | 204.0115 | Removing Asphaltic Surface Butt Joints | SY | 103.000 | 103.000 |
| 0004 | 204.0120 | Removing Asphaltic Surface Milling | SY | 138,450.000 | 138,450.000 |
| 0006 | 204.0150 | Removing Curb & Gutter | LF | 43.000 | 43.000 |
| 0008 | 213.0100 | Finishing Roadway (project) 01. 6180-29-60 | EACH | 1.000 | 1.000 |
| 0010 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 5,565.000 | 5,565.000 |
| 0012 | 305.0120 | Base Aggregate Dense 1 1/4-Inch | TON | 8.000 | 8.000 |
| 0014 | 416.0610 | Drilled Tie Bars | EACH | 4.000 | 4.000 |
| 0016 | 455.0605 | Tack Coat | GAL | 9,780.000 | 9,780.000 |
| 0018 | 460.0105.S | HMA Percent Within Limits (PWL) Test Strip Volumetrics | EACH | 1.000 | 1.000 |
| 0020 | 460.0110.S | HMA Percent Within Limits (PWL) Test Strip Density | EACH | 1.000 | 1.000 |
| 0022 | 460.2005 | Incentive Density PWL HMA Pavement | DOL | 11,470.000 | 11,470.000 |
| 0024 | 460.2007 | Incentive Density HMA Pavement Longitudinal Joints | DOL | 16,460.000 | 16,460.000 |
| 0026 | 460.2010 | Incentive Air Voids HMA Pavement | DOL | 15,260.000 | 15,260.000 |
| 0028 | 460.6224 | HMA Pavement 4 MT 58-28 S | TON | 15,256.000 | 15,256.000 |
| 0030 | 465.0475 | Asphalt Centerline Rumble Strips 2-Lane Rural | LF | 36,315.000 | 36,315.000 |
| 0032 | 601.0411 | Concrete Curb & Gutter 30-Inch Type D | LF | 15.000 | 15.000 |
| 0034 | 601.0557 | Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D | LF | 28.000 | 28.000 |
| 0036 | 618.0100 | Maintenance And Repair of Haul Roads (project) 01. 6180-29-60 | EACH | 1.000 | 1.000 |
| 0038 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 0040 | 624.0100 | Water | MGAL | 56.000 | 56.000 |
| 0042 | 628.1905 | Mobilizations Erosion Control | EACH | 1.000 | 1.000 |
| 0044 | 628.1910 | Mobilizations Emergency Erosion Control | EACH | 1.000 | 1.000 |
| 0046 | 628.7015 | Inlet Protection Type C | EACH | 1.000 | 1.000 |
| 0048 | 633.5200 | Markers Culvert End | EACH | 2.000 | 2.000 |
| 0050 | 637.2210 | Signs Type II Reflective H | SF | 629.600 | 629.600 |
| 0052 | 637.2230 | Signs Type II Reflective F | SF | 184.340 | 184.340 |
| 0054 | 638.2602 | Removing Signs Type II | EACH | 97.000 | 97.000 |
| 0056 | 642.5201 | Field Office Type C | EACH | 1.000 | 1.000 |
| 0058 | 643.0300 | Traffic Control Drums | DAY | 70.000 | 70.000 |
| 0060 | 643.0310.S | Temporary Portable Rumble Strips | LS | 1.000 | 1.000 |
| 0062 | 643.0900 | Traffic Control Signs | DAY | 1,986.000 | 1,986.000 |
| 0064 | 643.1050 | Traffic Control Signs PCMS | DAY | 14.000 | 14.000 |
| 0066 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0068 | 646.1020 | Marking Line Epoxy 4-Inch | LF | 32,700.000 | 32,700.000 |
| 0070 | 646.1040 | Marking Line Grooved Wet Ref Epoxy 4-Inch | LF | 72,400.000 | 72,400.000 |
| 0072 | 646.3040 | Marking Line Grooved Wet Ref Epoxy 8-Inch | LF | 625.000 | 625.000 |
| 0074 | 649.0105 | Temporary Marking Line Paint 4-Inch | LF | 32,700.000 | 32,700.000 |
| 0076 | 649.0120 | Temporary Marking Line Epoxy 4-Inch | LF | 32,700.000 | 32,700.000 |
| 0078 | 650.8000 | Construction Staking Resurfacing Reference | LF | 36,300.000 | 36,300.000 |

Estimate Of Quantities

| 6180-29-60 | | | | | |
|------------|----------|---|------|------------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0080 | 650.9910 | Construction Staking Supplemental Control (project) 01. 6180-29-60 | LS | 1.000 | 1.000 |
| 0082 | 690.0150 | Sawing Asphalt | LF | 54.000 | 54.000 |
| 0084 | 690.0250 | Sawing Concrete | LF | 6.000 | 6.000 |
| 0086 | 740.0440 | Incentive IRI Ride | DOL | 29,334.000 | 29,334.000 |
| 0088 | ASP.1T0A | On-the-Job Training Apprentice at \$5.00/HR | HRS | 1,200.000 | 1,200.000 |
| 0090 | ASP.1T0G | On-the-Job Training Graduate at \$5.00/HR | HRS | 600.000 | 600.000 |
| 0092 | SPV.0105 | Special 01. Grading, Shaping and Finishing Curb and Gutter STH 21 and CTH K | LS | 1.000 | 1.000 |
| 0094 | SPV.0105 | Special 02. Grading, Shaping and Finishing Curb and Gutter STH 21 and Rushford Avenue | LS | 1.000 | 1.000 |

| REMOVING ASPHALTIC SURFACE | | | | |
|----------------------------|-------------------------------|----------|-------------------------|---------------------|
| | | | BUTT JOINTS 204.0115 | MILLING 204.0120 |
| CATEGORY | STATION - STATION | LOCATION | SY | SY |
| 0010 | 103+35 - 208+58 | LT/RT | 7 | 44,300 |
| | 208+58 - 314+54 | LT/RT | --- | 37,300 |
| | 314+54 - 419+57 | LT/RT | --- | 36,500 |
| | 419+57 - 466+50 | LT/RT | 7 | 16,600 |
| | SPRING ROAD | LT/RT | 15 | 640 |
| | EUREKA ROAD/CTH K | LT/RT | 15 | 630 |
| | RUSHFORD AVENUE | LT/RT | 15 | 630 |
| | POYGAN AVENUE/EDGEWATER RIDGE | LT/RT | 15 | 640 |
| | O'REILLY ROAD | LT/RT | 7 | 320 |
| | BRODERICK ROAD/BRODERICK ROAD | LT/RT | 15 | 570 |
| | BRODERICK ROAD | LT/RT | 7 | 320 |
| | TOTALS | | | 103 |

| FINISHING ROADWAY | | |
|-------------------|------------|----------|
| CATEGORY | PROJECT | 213.0100 |
| | | EACH |
| 0010 | 6180-29-60 | 1 |

| GRADING, SHAPING AND FINISHING CURB AND GUTTER | | | | | | | | |
|--|--------------------------------|----------------|---|----------------------|---------------------|----------|----------------------|------------------------------|
| | | | FOR INFORMATION ONLY | | | | | |
| | | | CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER | EXCAVATION COMMON | SALVAGED TOPSOIL | MULCHING | FERTILIZER TYPE B | SEEDING MIXTURE NO. 30 |
| | | | | | | | | |
| | | | | | | | | |
| CATEGORY | LOCATION | SPV.0105 LS | LF | CY | SY | SY | CWT | LB |
| 0010 | 01. STH 21 AND CTH K | 1 | 15 | 5 | 10 | 10 | 0.008 | 0.3 |
| | 02. STH 21 AND RUSHFORD AVENUE | 1 | --- | 3 | 5 | 5 | 0.004 | 0.2 |
| | | | 15 | 8 | 15 | 15 | 0.012 | 0.5 |

| REMOVING CURB & GUTTER | | | | |
|------------------------|-------------------|----------|----------|------------------------------|
| CATEGORY | STATION - STATION | LOCATION | 204.0150 | REMARKS |
| | | | LF | |
| 0010 | 207+80 - 208+08 | LT | 28 | EUREKA ROAD/CTH K ROAD RADII |
| | 261+96 - 262+11 | LT | 15 | RUSHFORD AVENUE RADII |
| TOTAL | | | 43 | |

| BASE AGGREGATE DENSE | | | |
|----------------------|-------------------|----------------|----------|
| CATEGORY | STATION - STATION | 305.0110 | 624.0100 |
| | | BASE AGGREGATE | WATER |
| | | DENSE 3/4-INCH | |
| | | TON | MGAL |
| 0010 | 103+34 - 208+58 | 1,600 | 16 |
| | 208+58 - 314+54 | 1,600 | 16 |
| | 314+54 - 419+57 | 1,600 | 16 |
| | 419+57 - 466+50 | 700 | 7 |
| | UNDISTRIBUTED | 65 | 1 |
| TOTALS | | 5,565 | 56 |

| CONCRETE CURB & GUTTER ITEMS | | | | | | |
|------------------------------|-------------------|----------|------------|----------|----------------|----------------|
| CATEGORY | STATION - STATION | LOCATION | 305.0120 | 416.0610 | 601.0411 | 601.0557 |
| | | | BASE | DRILLED | CONCRETE | CONCRETE |
| | | | AGGREGATE | TIE BARS | CURB & GUTTER | CURB & GUTTER |
| | | | DENSE | | 30-INCH TYPE D | 6-INCH SLOPED |
| | | | 1 1/4-INCH | | | 36-INCH TYPE D |
| TON | EACH | LF | LF | | | |
| 0010 | 207+80 - 208+08 | RT | 5 | 2 | --- | 28 |
| | 261+96 - 262+11 | LT | 3 | 2 | 15 | --- |
| TOTALS | | | 8 | 4 | 15 | 28 |

3

| ASPHALTIC ITEMS | | | | |
|-----------------|-------------------------------|------------------------------|--------------|---|
| CATEGORY | STATION - STATION | 460.6224 | 455.0605 | 465.0475 |
| | | HMA PAVEMENT 4 MT 58-28 S | TACK COAT | ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF |
| 0010 | 103+35 - 208+58 | 4,870 | 3,100 | 10,523 |
| | 208+58 - 314+54 | 4,110 | 2,600 | 10,596 |
| | 314+54 - 419+57 | 4,020 | 2,600 | 10,503 |
| | 419+57 - 466+50 | 1,830 | 1,200 | 4,693 |
| | SPRING ROAD | 72 | 50 | --- |
| | EUREKA ROAD/CTH K | 74 | 50 | --- |
| | RUSHFORD AVENUE | 73 | 50 | --- |
| | POYGAN AVENUE/EDGEWATER RIDGE | 71 | 50 | --- |
| | O'REILLY ROAD | 36 | 20 | --- |
| | BRODERICK ROAD/BRODERICK ROAD | 64 | 40 | --- |
| | BRODERICK ROAD | 36 | 20 | --- |
| | TOTALS | 15,256 | 9,780 | 36,315 |

NOTE: HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 110 LB/SY/IN.

| LOCATION | STATION | MIXTURE USE | UNDERLYING SURFACE | BID ITEM | TONS | THICKNESS | QUALITY MANAGEMENT PROGRAM TO BE USED FOR: | |
|----------------------|------------------|-------------|-----------------------------|--------------|--------|-----------|--|--|
| | | | | | | | MIXTURE ACCEPTANCE | DENSITY ACCEPTANCE |
| 12 FOOT DRIVING LANE | 103+35 TO 466+50 | UPPER LAYER | MILLED EXISTING HMA SURFACE | 4 MT 58-28 S | 11,470 | 2" | INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010 | INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005 |
| 3 FOOT SHOULDER | 103+35 TO 466+50 | UPPER LAYER | MILLED EXISTING HMA SURFACE | 4 MT 58-28 S | 2,440 | 2" | INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010 | ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE |
| INTERSECTIONS | 103+35 TO 466+50 | UPPER LAYER | MILLED EXISTING HMA SURFACE | 4 MT 58-28 S | 1,346 | 2" | INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010 | ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE |

| MAINTENANCE AND REPAIR OF HAUL ROADS | | |
|--------------------------------------|------------|-------------|
| CATEGORY | PROJECT | 618.0100.01 |
| | | EACH |
| 0010 | 6180-29-60 | 1 |

| HMA PAVEMENT PWL ITEMS | | | |
|------------------------|-------------------|-----------------------------|-----------------------------|
| CATEGORY | STATION - STATION | 460.0105.S | 460.0110.S |
| | | HMA | HMA |
| | | PERCENT WITHIN LIMITS (PWL) | PERCENT WITHIN LIMITS (PWL) |
| | | TEST STRIP VOLUMETRICS | TEST STRIP DENSITY |
| | | EACH | EACH |
| 0010 | 103+35 - 466+50 | 1 | 1 |

3

3

| MOBI LI ZATI ONS EROSION CONTROL | | | |
|----------------------------------|------------|------------------|------------------|
| | | 628. 1905 | 628. 1910 |
| | | MOBI LI ZATI ONS | MOBI LI ZATI ONS |
| | | EROSION CONTROL | EMERGENCY |
| | | EACH | EROSION CONTROL |
| | | EACH | EACH |
| CATEGORY | PROJECT | | |
| 0010 | 6180-29-60 | 1 | 1 |

| INLET PROTECTION TYPE C | | | |
|-------------------------|---------|-----------|-----------|
| | | | 628. 7015 |
| CATEGORY | STATION | LOCATI ON | EACH |
| 0010 | 262+00 | LT | 1 |

| MARKERS CULVERT END | | | |
|---------------------|---------|-----------|-----------|
| | | | 633. 5200 |
| CATEGORY | STATION | LOCATI ON | EACH |
| 0010 | 311+04 | LT | 1 |
| | 407+75 | LT | 1 |
| TOTAL | | | 2 |

| FIELD OFFICE TYPE C | | |
|---------------------|------------|-----------|
| | | 642. 5201 |
| CATEGORY | PROJECT | EACH |
| 0010 | 6180-29-60 | 1 |

| TEMPORARY PORTABLE RUMBLE STRIPS | | |
|----------------------------------|------------|--------------|
| | | 643. 0310. S |
| CATEGORY | PROJECT | LS |
| 0010 | 6180-29-60 | 1 |

| TRAFFIC CONTROL | | | | | | |
|-----------------|------------|---------------------|-----------|------|------------|------|
| | | | 643. 0300 | | 643. 1050 | |
| | | | DRUMS | | SIGNS PCMS | |
| CATEGORY | Project | DURATI ON (DAYS) | EACH | DAYS | EACH | DAYS |
| 0010 | 6180-29-60 | 7 | 10 | 70 | 2 | 14 |

| TRAFFIC CONTROL | | |
|-----------------|------------|-----------|
| | | 643. 5000 |
| CATEGORY | PROJECT | EACH |
| 0010 | 6180-29-60 | 1 |

| TRAFFIC CONTROL SIGNS ITEMS | | | | | | | | |
|-----------------------------|-----------------------------|-------------|-------------------------|----------|---------------------|------------------|--------|--|
| | | | | | | 643. 0900 | | |
| | | | | | | TRAFFI C CONTROL | | |
| | | | | | | SIGNS | | |
| CATEGORY | TRAFFI C CONTROL | CODE | SIGN DESCRI PTI ON | SI ZE | DURATI ON (DAYS) | EACH | DAYS | |
| OPERATI ONS | | | | | | | | |
| 0010 | ADVANCED WARNI NG | W20-1A | ROAD WORK AHEAD | 48" X48" | 45 | 17 | 765 | |
| | | W20-1C | ROAD WORK 1000 FT | 48" X48" | 45 | 1 | 45 | |
| | | W20-1D | ROAD WORK 500 FT | 48" X48" | 45 | 2 | 90 | |
| | | W20-1 (MOD) | ROAD WORK 250 FT | 48" X48" | 45 | 1 | 45 | |
| | | G20-1 | ROAD WORK NEXT 7 MI LES | 60" X24" | 45 | 2 | 90 | |
| | | G20-2A | END ROAD WORK | 48" X24" | 45 | 2 | 90 | |
| | | M1-6 | STH 21 | 24" X24" | 45 | 1 | 45 | |
| | MOVI NG MARKI NG OPERATI ON | W21-66 | WET PAI NT | 48" X48" | 3 | 2 | 6 | |
| | UNDI STRI BUTED | W08-7 | LOOSE GRAVEL | 48" X48" | 45 | 4 | 180 | |
| | | W8-11 | UNEVEN LANES | 48" X48" | 45 | 2 | 90 | |
| | | W08-9 | LOW SHOULDER | 48" X48" | 45 | 4 | 180 | |
| | | W08-2 | DI P | 48" X48" | 45 | 2 | 90 | |
| | | W08-1 | BUMP | 48" X48" | 45 | 2 | 90 | |
| | | W21-5 | SHOULDER WORK | 48" X48" | 45 | 4 | 180 | |
| | | TOTAL | | | | | 1, 986 | |

3

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

| SIGN NO. | LOCATION | SIGN CODE | W X H | 637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F. | 637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F. | 638. 2602 REMOVING SIGNS TYPE II EACH | REMARKS |
|----------------|-------------------------|-----------|-----------|--|--|---|--|
| 1 | 37TH AVE | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 2 | STH 21, E. OF 37TH AVE | I2- 2 | 78" X 15" | 8. 13 | --- | 1 | SEE SIGN DETAILS |
| 3 | " | J4- 1 | 24" X 36" | 6. 00 | --- | 1 | SEE PLAN SHEET |
| 4 | " | I55- 56 | 30" X 36" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 5 | " | D1- 1 | 72" X 15" | 7. 50 | --- | 1 | SEE SIGN DETAILS |
| 6 | " | R4- 53 | 54" X 54" | 20. 25 | --- | 1 | |
| 7 | " | W4- 2R | 36" X 36" | --- | 9. 00 | 1 | |
| 8 | " | W9- 1R | 36" X 36" | --- | 9. 00 | 1 | |
| 9 | " | R4- 53 | 54" X 54" | 20. 25 | --- | 1 | |
| 10 | " | R4- 53 | 54" X 54" | 20. 25 | --- | 1 | |
| 11 | " | D1- 61 | 60" X 24" | 10. 00 | --- | 1 | SEE SIGN DETAILS |
| 12 | " | R4- 3 | 24" X 30" | 5. 00 | --- | 1 | |
| 13 | " | I55- 56 | 30" X 36" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 14 | SPRING RD | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 15 | " | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 16 | STH 21, E. OF SPRING RD | I55- 56 | 30" X 36" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 17 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 18 | " | D1- 61 | 60" X 24" | 10. 00 | --- | 1 | SEE SIGN DETAILS |
| 19 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 20 | " | J4- 1 | 24" X 36" | 6. 00 | --- | --- | MOUNT TO BACK OF SIGN 19, SEE PLAN SHEET |
| 21 | " | J1- 1 | 24" X 39" | 6. 50 | --- | 1 | SEE PLAN SHEET |
| 22 | " | D1- 1 | 72" X 15" | 7. 50 | --- | 1 | SEE SIGN DETAILS |
| 23 | " | D1- 1 | 60" X 15" | 6. 25 | --- | 1 | SEE SIGN DETAILS |
| 24 | " | R4- 51 | 36" X 48" | 12. 00 | --- | 1 | 1/2 MILE |
| 25 | " | J13- 1 | 24" X 45" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 26 | EUREKA RD | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 27 | CTH K | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 28 | " | J13- 1 | 24" X 45" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 29 | STH 21, E. OF CTH K | J13- 1 | 24" X 45" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 30 | " | J4- 1 | 24" X 36" | 6. 00 | --- | 1 | SEE PLAN SHEET |
| 31 | " | D1- 1 | 60" X 15" | 6. 25 | --- | 1 | SEE SIGN DETAILS |
| 32 | " | D1- 1 | 72" X 15" | 7. 50 | --- | 1 | SEE SIGN DETAILS |
| 33 | " | J1- 1 | 24" X 39" | 6. 50 | --- | 1 | SEE PLAN SHEET |
| 34 | " | W54- 57 | 30" X 30" | --- | 6. 25 | 1 | |
| 35 | " | W14- 3 | 48" X 36" | --- | 5. 56 | --- | MOUNT TO BACK OF SIGN 34, SEE PLAN SHEET |
| PAGE SUBTOTALS | | | | 242. 78 | 40. 93 | 33 | |

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

| SIGN NO. | LOCATION | SIGN CODE | W X H | 637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F. | 637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F. | 638. 2602 REMOVING SIGNS TYPE II EACH | REMARKS |
|----------------|------------------------------|-----------|------------|--|--|---|---|
| 36 | STH 21, E. OF CTH K | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 37 | STH 21, W. OF RUSHFORD AVE | R4- 51 | 36" X 48" | 12. 00 | --- | 1 | |
| 38 | " | W54- 57 | 30" X 30" | --- | 6. 25 | 1 | |
| 39 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 40 | " | D1- 61 | 78" X 24" | 13. 00 | --- | 1 | SEE SIGN DETAILS |
| 41 | " | I 55- 56 | 30" X 36" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 42 | RUSHFORD AVE | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 43 | " | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 44 | STH 21, E. OF RUSHFORD AVE | I 55- 56 | 30" X 36" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 45 | " | D1- 61 | 78" X 24" | 13. 00 | --- | 1 | SEE SIGN DETAILS |
| 46 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 47 | STH 21, W. OF POYGAN AVE | S3- 1 | 36" X 36" | --- | 9. 00 | 1 | |
| 48 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 49 | " | D1- 2 | 108" X 30" | 22. 50 | --- | 1 | SEE SIGN DETAILS |
| 50 | " | J4- 1 | 24" X 36" | 6. 00 | --- | 1 | SEE PLAN SHEET |
| 51 | POYGAN AVE | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 52 | EDGEWATER RIDGE | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 53 | STH 21, E. OF POYGAN AVE | J4- 1 | 24" X 36" | 6. 00 | --- | 1 | SEE PLAN SHEET |
| 54 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 55 | " | D1- 2 | 108" X 30" | 22. 50 | --- | 1 | SEE SIGN DETAILS |
| 56 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 57 | STH 21, W. OF O' REILLY RD | D1- 1 | 78" X 15" | 8. 13 | --- | 1 | SEE SIGN DETAILS |
| 58 | " | I 55- 56 | 30" X 36" | 7. 50 | --- | 1 | SEE PLAN SHEET |
| 59 | " | W1- 7 | 24" X 48" | --- | 8. 00 | 1 | |
| 60 | O' REILLY RD | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 61 | STH 21, E. OF O' REILLY RD | D1- 1 | 78" X 15" | 8. 13 | --- | 1 | SEE SIGN DETAILS |
| 62 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 63 | " | W1- 2R | 30" X 30" | --- | 6. 25 | 1 | |
| 64 | " | D1- 61 | 72" X 24" | 12. 00 | --- | 1 | SEE SIGN DETAILS |
| 64A- 9 | " | W1- 8 | 18" X 24" | 48. 00 | --- | 8 | 16 SIGNS @ 3. 00 S. F. EACH (8 LOCATIONS, 2 SIGNS EACH FOR REMOVAL) |
| 65 | BRODERICK RD | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 66 | " | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 67 | " | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 68 | " | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 69 | STH 21, BETWEEN BRODERICK RD | D1- 61 | 72" X 24" | 12. 00 | --- | 1 | SEE SIGN DETAILS |
| 69A- H | " | W1- 8 | 18" X 24" | 24. 00 | --- | 4 | 8 SIGNS @ 3. 00 S. F. EACH (4 LOCATIONS, 2 SIGNS EACH FOR REMOVAL) |
| 70 | " | W1- 2L | 30" X 30" | --- | 6. 25 | 1 | |
| 71 | " | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| PAGE SUBTOTALS | | | | 276. 38 | 80. 23 | 48 | |

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

| SIGN NO. | LOCATION | SIGN CODE | W X H | 637. 2210 SIGNS TYPE II REFLECTIVE TYPE H S. F. | 637. 2230 SIGNS TYPE II REFLECTIVE TYPE F S. F. | 638. 2602 REMOVING SIGNS TYPE II EACH | REMARKS |
|----------------|------------------------------|-----------|-----------|--|--|---|--------------------------|
| 72 | STH 21, BETWEEN BRODERICK RD | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| 73 | " | D1- 1 | 90" X 15" | 9. 38 | --- | 1 | SEE SIGN DETAILS |
| 74 | " | W1- 2L | 30" X 30" | --- | 6. 25 | 1 | |
| 75 | BRODERICK RD | R1- 1 | 30" X 30" | 5. 18 | --- | 1 | |
| 76 | STH 21, E. OF BRODERICK RD | W1- 6 | 24" X 48" | --- | 8. 00 | 1 | |
| 77 | " | W1- 6 | 24" X 48" | --- | 8. 00 | 1 | |
| 78 | " | D1- 1 | 90" X 15" | 9. 38 | --- | 1 | SEE SIGN DETAILS |
| 79 | " | D2- 2 | 84" X 24" | 14. 00 | --- | 1 | SEE SIGN DETAILS |
| 80 | " | I2- 3 | 60" X 24" | 10. 00 | --- | 1 | SEE SIGN DETAILS |
| 81 | " | J1- 2 | 48" X 39" | 13. 00 | --- | 1 | SEE PLAN SHEET |
| 82 | " | W14- 3 | 48" X 36" | --- | 5. 56 | --- | MOUNT TO BACK OF SIGN 81 |
| 83 | " | W3- 5 | 36" X 36" | --- | 9. 00 | 1 | 25 MPH |
| 84 | " | W1- 2R | 30" X 30" | --- | 6. 25 | 1 | |
| 85 | " | J3- 3 | 72" X 57" | 28. 50 | --- | 1 | SEE PLAN SHEET |
| 86 | " | W3- 3 | 36" X 36" | --- | 9. 00 | 1 | |
| 87 | | D1- 3 | 84" X 36" | 21. 00 | --- | 1 | SEE SIGN DETAILS |
| 88 | | W14- 3 | 48" X 36" | --- | 5. 56 | 1 | |
| PAGE SUBTOTALS | | | | 110. 44 | 63. 18 | 16 | |
| PROJECT TOTALS | | | | 629. 60 | 184. 34 | 97 | |

| PAVEMENT MARKING ITEMS | | | | | | | | |
|------------------------|-------------------|--|--------------------------|--------------------|--|----------|--|-----------------|
| CATEGORY | STATION - STATION | 646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH | | | 646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH | | 646.1020 MARKING LINE EPOXY 4-INCH | |
| | | (WHITE) | (12.5' SEG. , 37.5' GAP) | (3' SEG. , 9' GAP) | (WHITE) | (YELLOW) | (12.5' SEG. , 37.5' GAP) | (DOUBLE YELLOW) |
| | | LF | LF | LF | LF | LF | LF | LF |
| | | | | | | | | |
| 0010 | 103+35 - 208+58 | 20,650 | 1,200 | 170 | 440 | 7,940 | 2,630 | 150 |
| | 208+58 - 314+54 | 20,600 | --- | --- | 185 | 5,440 | 2,560 | 710 |
| | 314+54 - 419+57 | 20,650 | --- | --- | --- | 3,230 | 2,370 | 2,010 |
| | 419+57 - 466+50 | 9,130 | --- | --- | --- | 3,620 | 1,050 | 990 |
| SUBTOTALS | | 71,030 | 1,200 | 170 | 625 | 20,230 | 8,610 | 3,860 |
| TOTALS | | | 72,400 | | 625 | | 32,700 | |

| TEMPORARY PAVEMENT MARKING ITEMS | | | | | | | | |
|----------------------------------|-------------------|--|--------------------------|-----------------|--|--------------------------|-----------------|--|
| CATEGORY | STATION - STATION | 649.0105 TEMPORARY MARKING LINE PAINT 4-INCH | | | 649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH | | | |
| | | (YELLOW) | (12.5' SEG. , 37.5' GAP) | (DOUBLE YELLOW) | (YELLOW) | (12.5' SEG. , 37.5' GAP) | (DOUBLE YELLOW) | |
| | | LF | LF | LF | LF | LF | LF | |
| | | | | | | | | |
| 0010 | 103+35 - 208+58 | 7,940 | 2,630 | 150 | 7,940 | 2,630 | 150 | |
| | 208+58 - 314+54 | 5,440 | 2,560 | 710 | 5,440 | 2,560 | 710 | |
| | 314+54 - 419+57 | 3,230 | 2,370 | 2,010 | 3,230 | 2,370 | 2,010 | |
| | 419+57 - 466+50 | 3,620 | 1,050 | 990 | 3,620 | 1,050 | 990 | |
| SUBTOTALS | | 20,230 | 8,610 | 3,860 | 20,230 | 8,610 | 3,860 | |
| TOTALS | | | 32,700 | | | 32,700 | | |

| SAWING | | | | |
|----------|-------------------|------------|-------------|---|
| CATEGORY | STATION - STATION | 690.0150 | 690.0250 | REMARKS |
| | | ASPHALT LF | CONCRETE LF | |
| 0010 | 207+80 - 208+08 | 34 | 3 | CTH K CURB & GUTTER REPLACEMENT |
| | 261+96 - 262+11 | 20 | 3 | RUSHFORD AVENUE CURB & GUTTER REPLACEMENT |
| TOTALS | | 54 | 6 | |

| CONSTRUCTION STAKING RESURFACING REFERENCE | | |
|--|-------------------|-------------|
| CATEGORY | STATION - STATION | 650.8000 LF |
| 0010 | 103+35 - 466+50 | 36,300 |



| | | | | | |
|------------------------|-------------|-------------------|-----------|-------|---|
| PROJECT NO: 6180-29-60 | HWY: STH 21 | COUNTY: WINNEBAGO | ALIGNMENT | SHEET | E |
|------------------------|-------------|-------------------|-----------|-------|---|



| | | | | | |
|------------------------|-------------|-------------------|-----------|-------|---|
| PROJECT NO: 6180-29-60 | HWY: STH 21 | COUNTY: WINNEBAGO | ALIGNMENT | SHEET | E |
|------------------------|-------------|-------------------|-----------|-------|---|



| | | | | | |
|------------------------|-------------|-------------------|-----------|-------|---|
| PROJECT NO: 6180-29-60 | HWY: STH 21 | COUNTY: WINNEBAGO | ALIGNMENT | SHEET | E |
|------------------------|-------------|-------------------|-----------|-------|---|



| | | | | | |
|------------------------|-------------|-------------------|-----------|-------|---|
| PROJECT NO: 6180-29-60 | HWY: STH 21 | COUNTY: WINNEBAGO | ALIGNMENT | SHEET | E |
|------------------------|-------------|-------------------|-----------|-------|---|



PROJECT NO: 6180-29-60

HWY: STH 21

COUNTY: WINNEBAGO

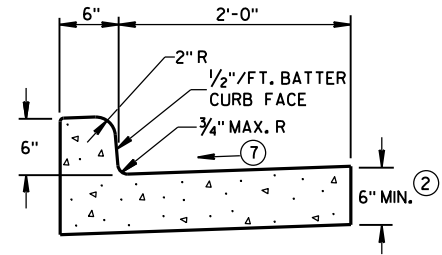
ALIGNMENT

SHEET

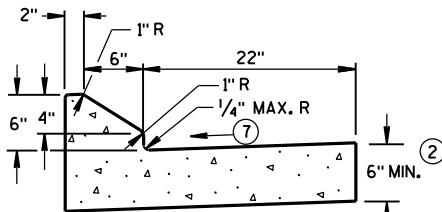
E

Standard Detail Drawing List

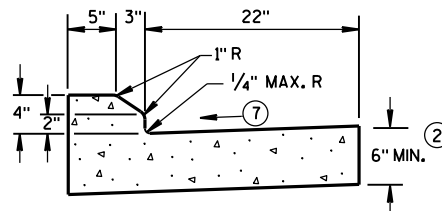
| | |
|-----------|--|
| 08D01-20A | CONCRETE CURB & GUTTER |
| 08D01-20B | CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS |
| 08E10-02 | INLET PROTECTION TYPE A, B, C AND D |
| 13A11-03A | 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING |
| 13A11-03B | 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING |
| 15A03-02A | FLEXIBLE MARKER POST FOR CULVERT END |
| 15A03-02B | FLEXIBLE MARKER POST FOR CULVERT END |
| 15C04-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC |
| 15C05-05 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS |
| 15C08-19A | LONGITUDINAL MARKING (MAINLINE) |
| 15C11-07B | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |
| 15C12-06 | TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION |
| 15C19-05A | MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY |
| 15C35-03A | PAVEMENT MARKING (INTERSECTIONS) |
| 15C35-03B | PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE) |
| 15C35-03C | PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE) |
| 15D38-02A | TEMPORARY TRAFFIC CONTROL SIGN MOUNTING |
| 15D38-02B | ATTACHMENT OF SIGNS TO POSTS |
| 15D39-02 | TRAFFIC CONTROL, DROP-OFF SIGNING |



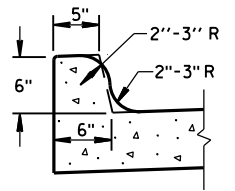
TYPES A^① & D



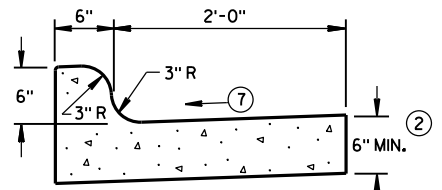
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

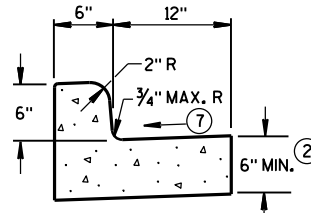


TYPES K^① & L
(OPTIONAL CURB SHAPE)



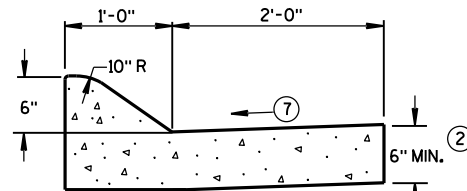
TYPES K^① & L

CONCRETE CURB & GUTTER 30"

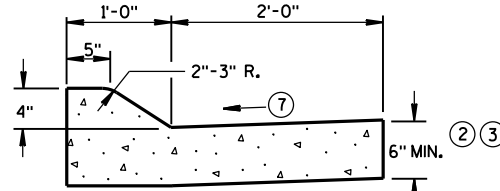


TYPES A^① & D

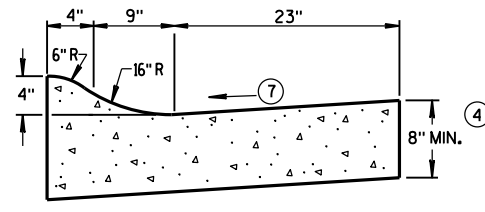
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A^① & D

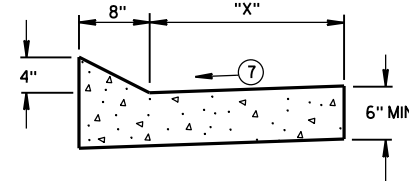


4" SLOPED CURB TYPES A^① & D



4" SLOPED CURB TYPES R^① & T^⑤

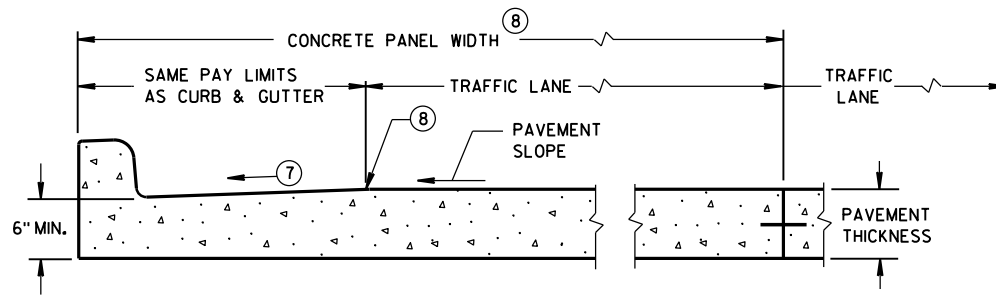
CONCRETE CURB & GUTTER 36"



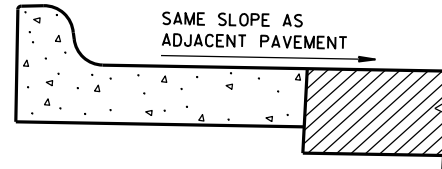
TYPES TBT & TBTT^①

CONCRETE CURB & GUTTER

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



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER^⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 TBTT.
- 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 USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ 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.
- ⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

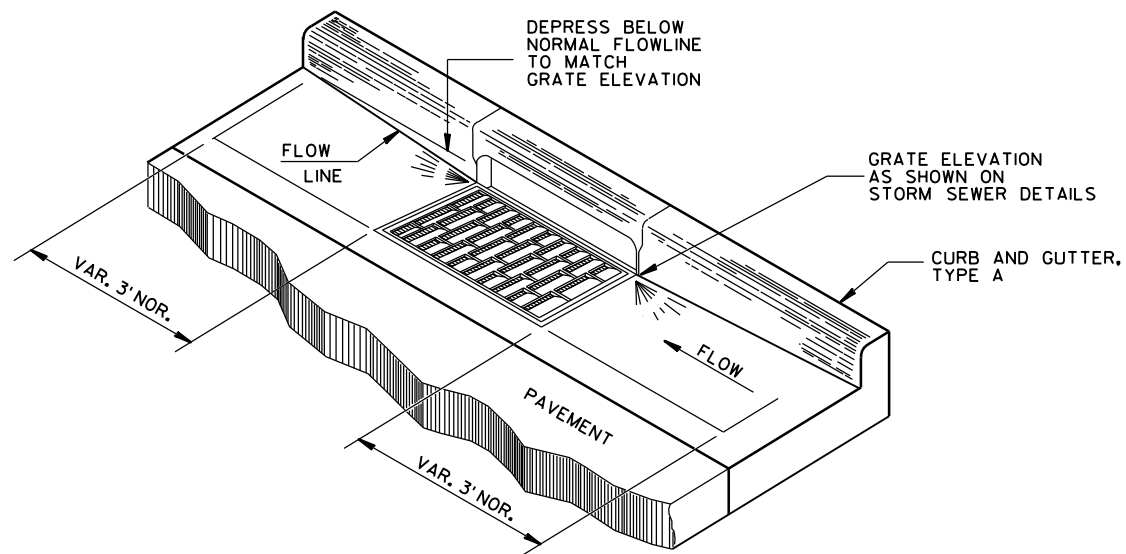
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

| PAVEMENT THICKNESS | MAXIMUM PANEL WIDTH |
|--------------------|---------------------|
| LESS THAN 10" | 12' |
| 10" & ABOVE | 15' |

* BIKE LANE IS NOT SHOWN.

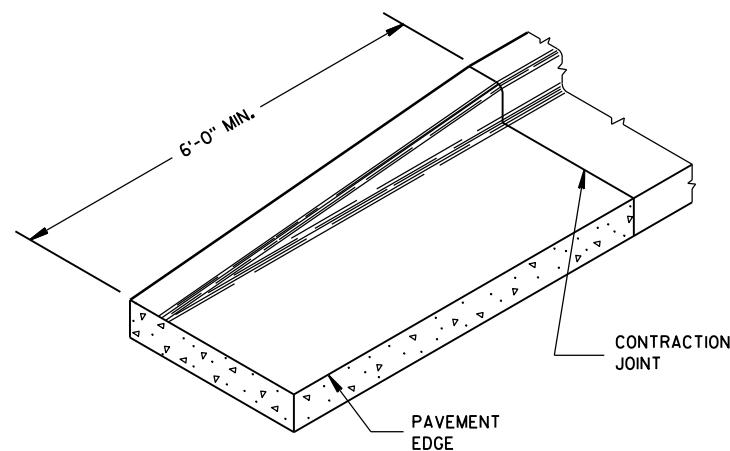
CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

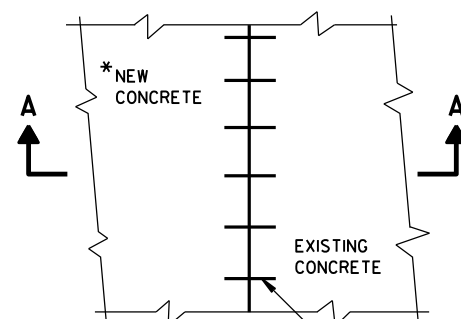


DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

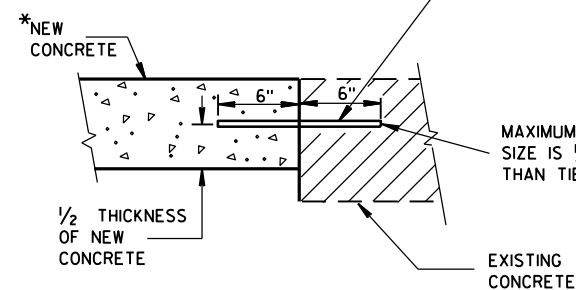


END SECTION CURB & GUTTER



PLAN VIEW

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



**SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT**

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

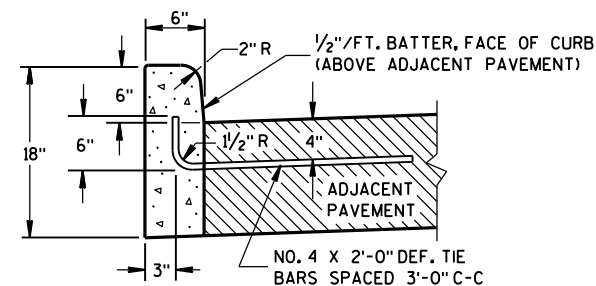
GENERAL NOTES

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

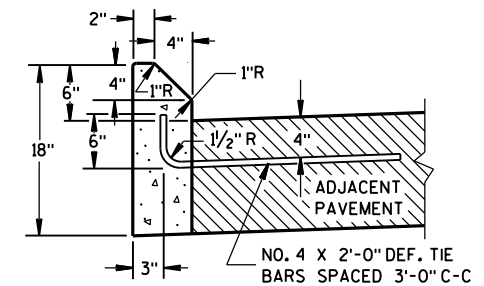
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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 TBTT.
- 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.
- ⑨ REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

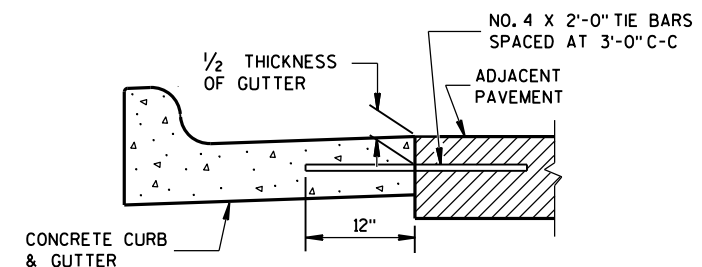


TYPES A^① & D

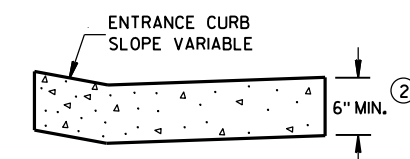


TYPES G^① & J

CONCRETE CURB



TYPICAL TIE BAR LOCATION^①



DRIVEWAY ENTRANCE CURB^⑨
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2017

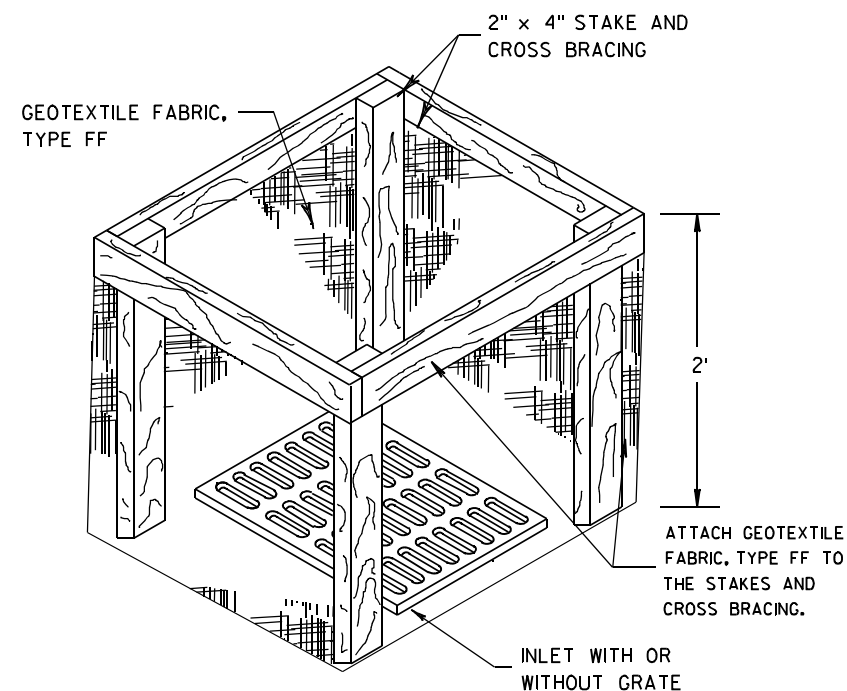
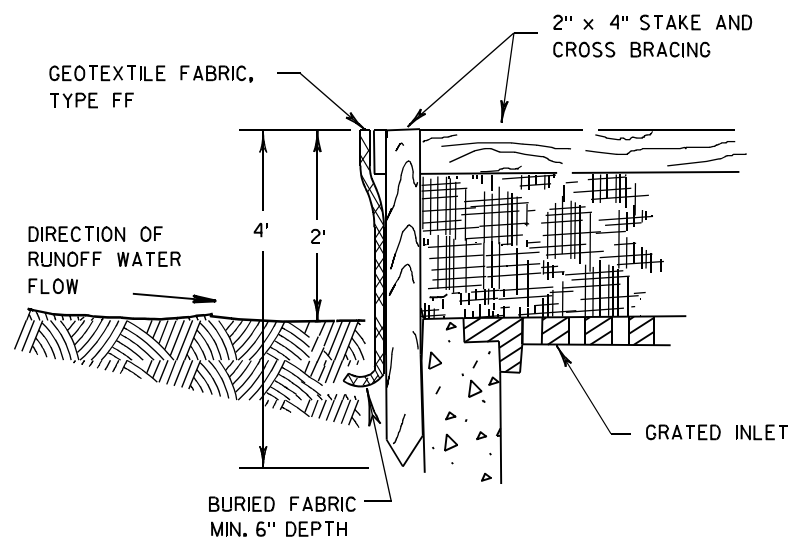
DATE

FHWA

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR



INLET PROTECTION, TYPE A

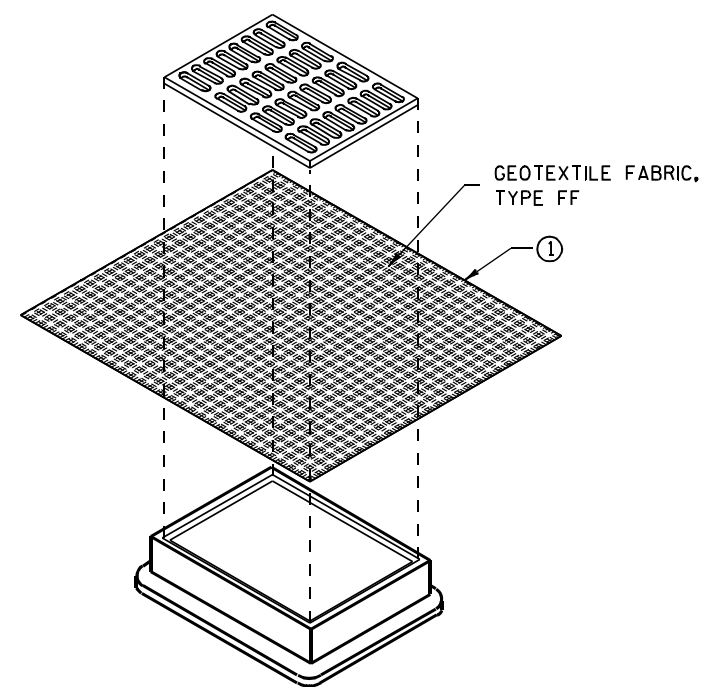
GENERAL NOTES

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.

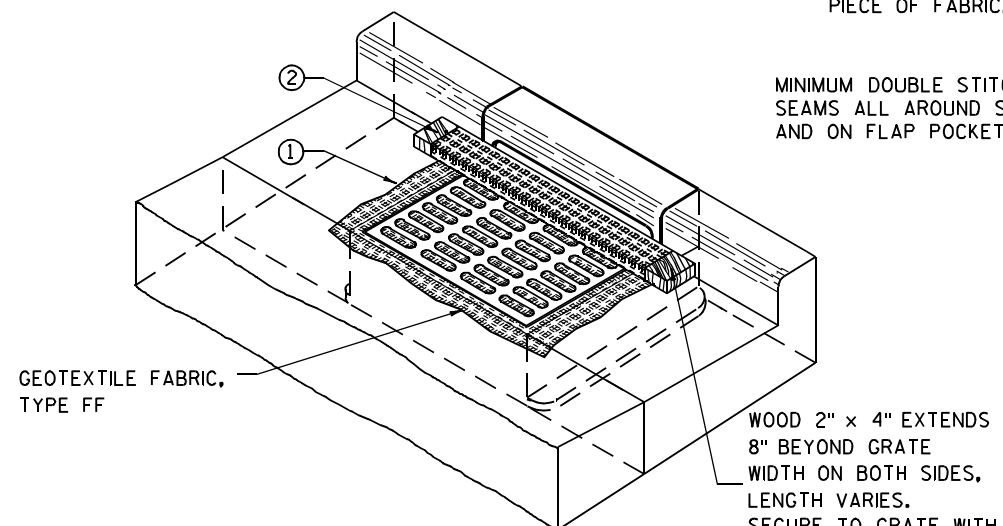
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 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.

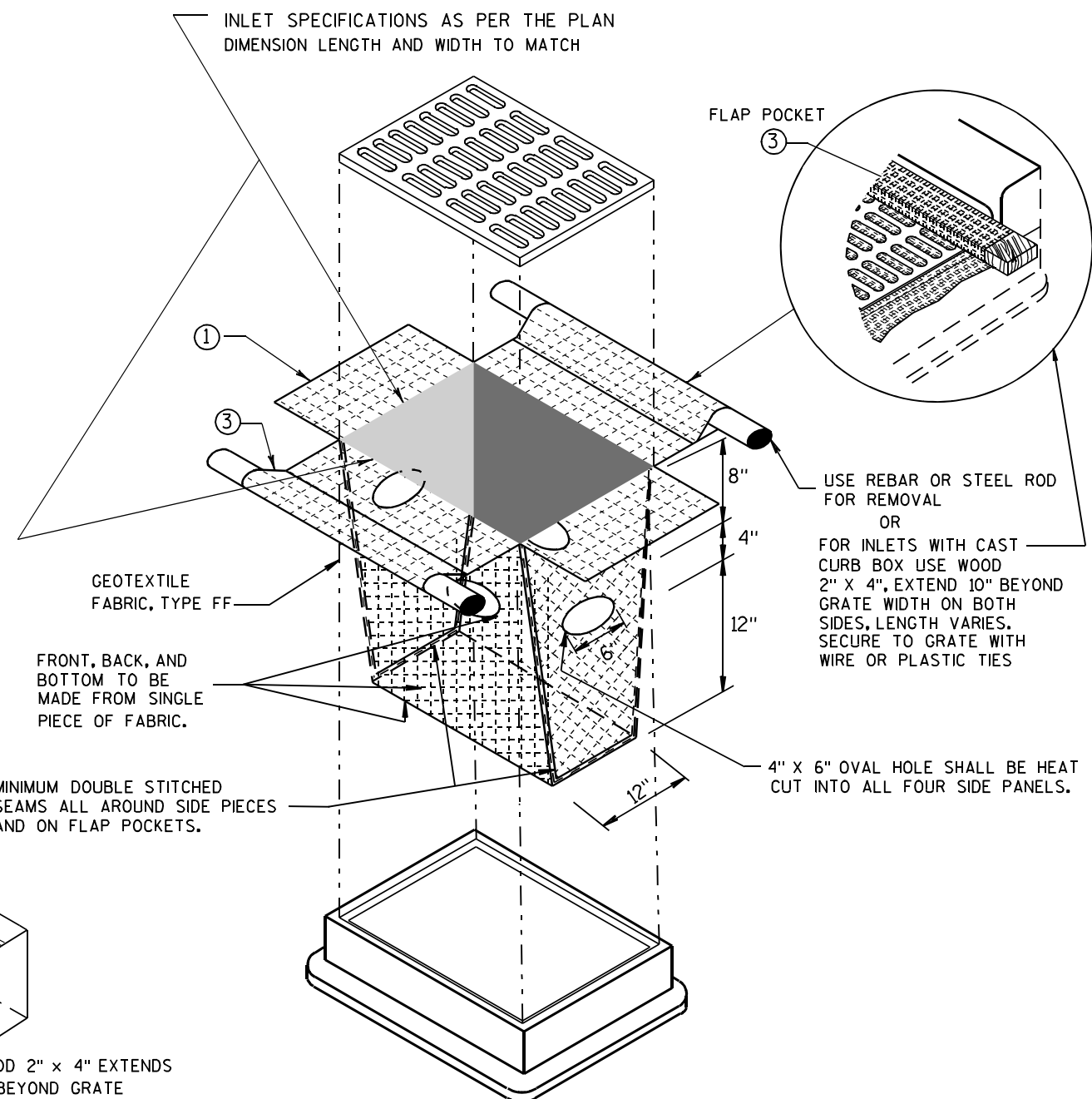
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

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.

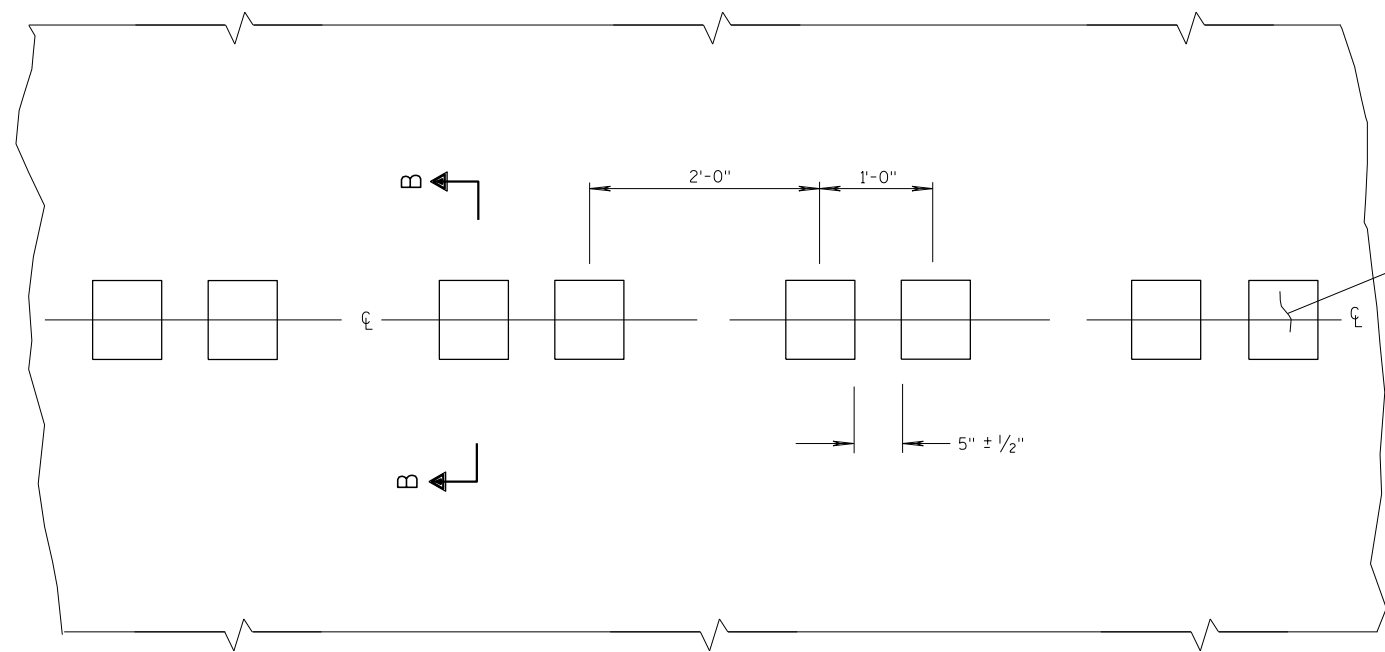
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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



INLET PROTECTION, TYPE D

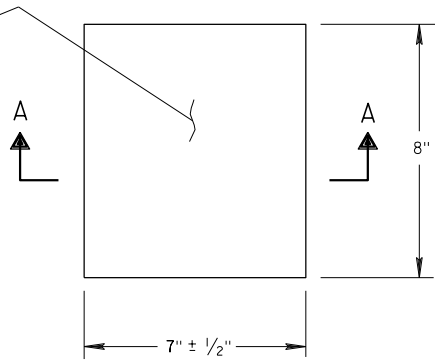
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

| | |
|--|--|
| INLET PROTECTION TYPE A, B, C, AND D | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 10/16/02 DATE | /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER |
| FHWA | |



PLAN VIEW
CENTER LINE WITH GROOVES

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

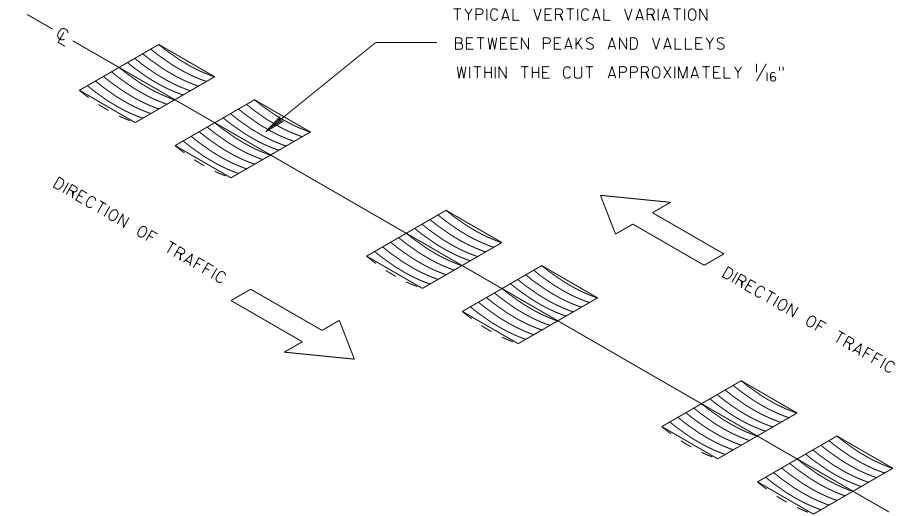


PLAN VIEW
(SINGLE GROOVE)

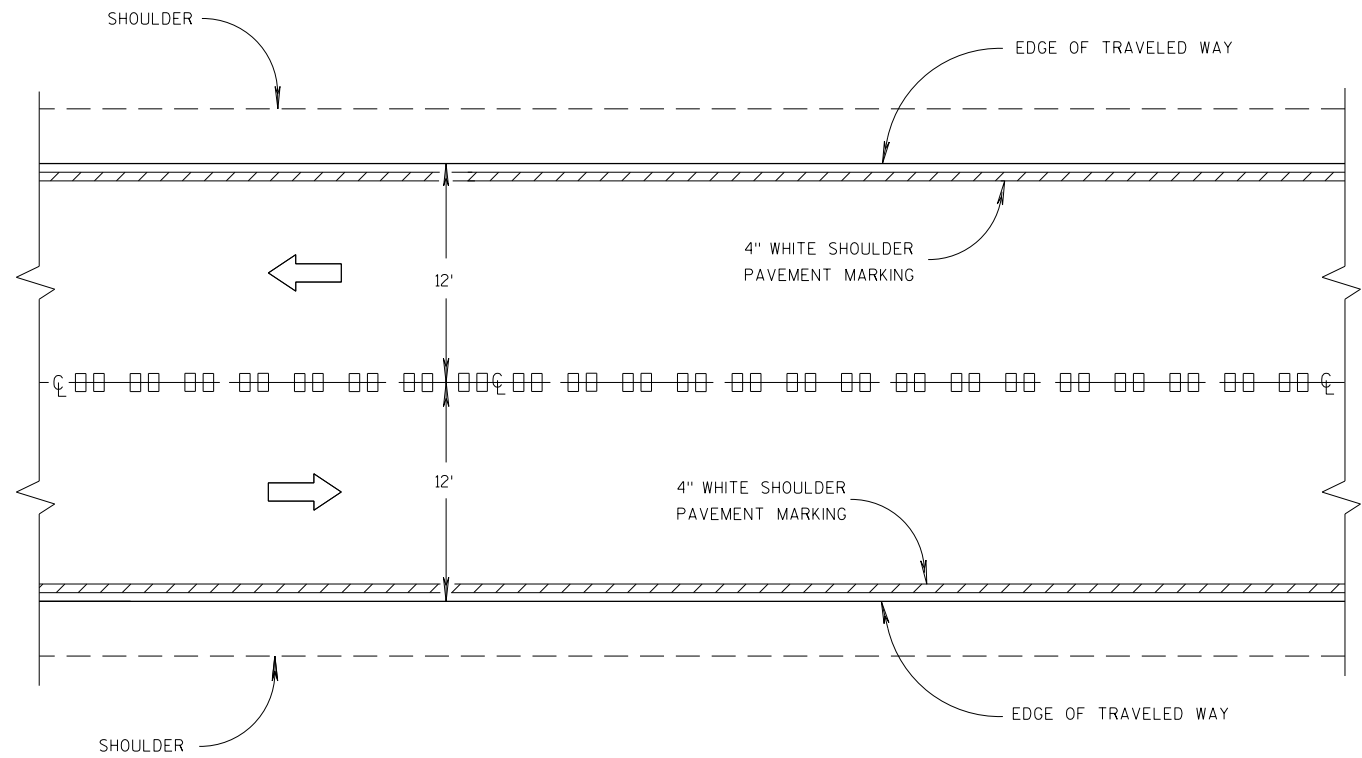
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.
INSTALL PERMANENT MARKING EPOXY 4-INCH AFTER THE GROOVES ARE INSTALLED.
SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

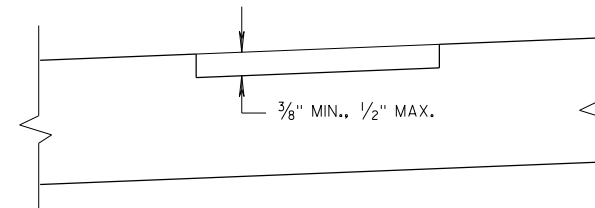
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



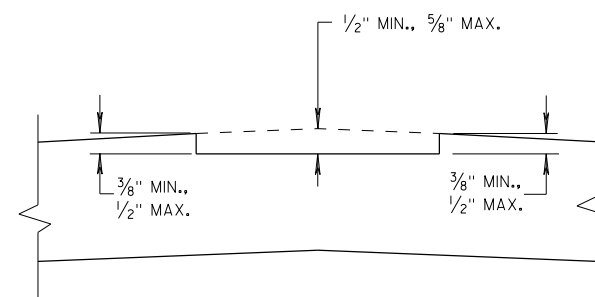
ISOMETRIC



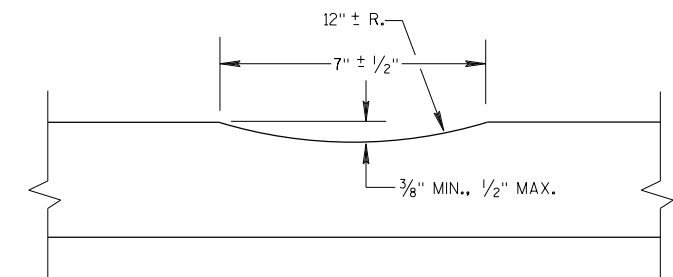
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



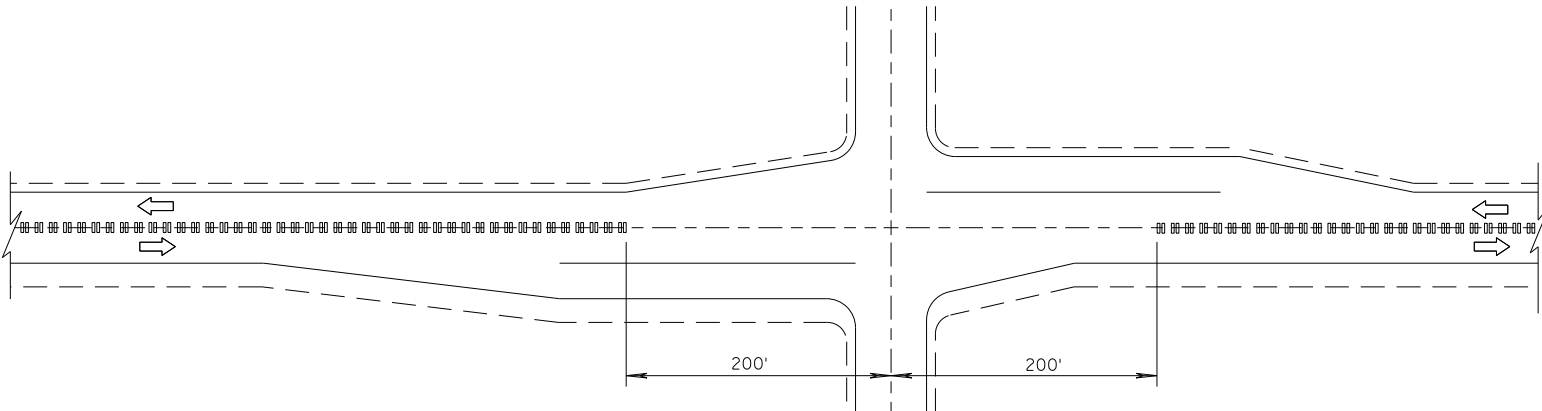
SECTION B-B
CROWNED ROADWAY



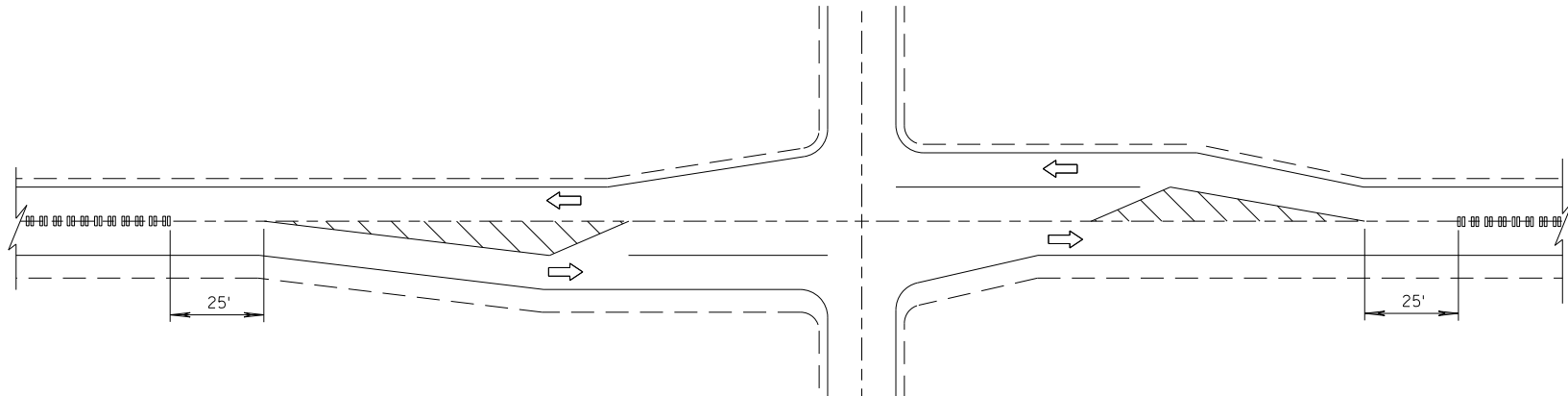
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

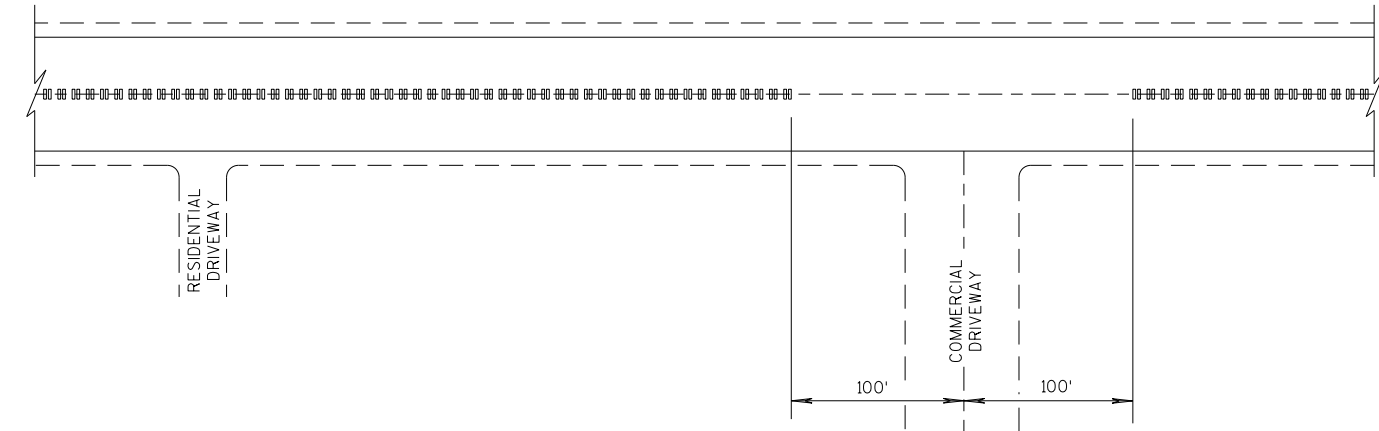
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS



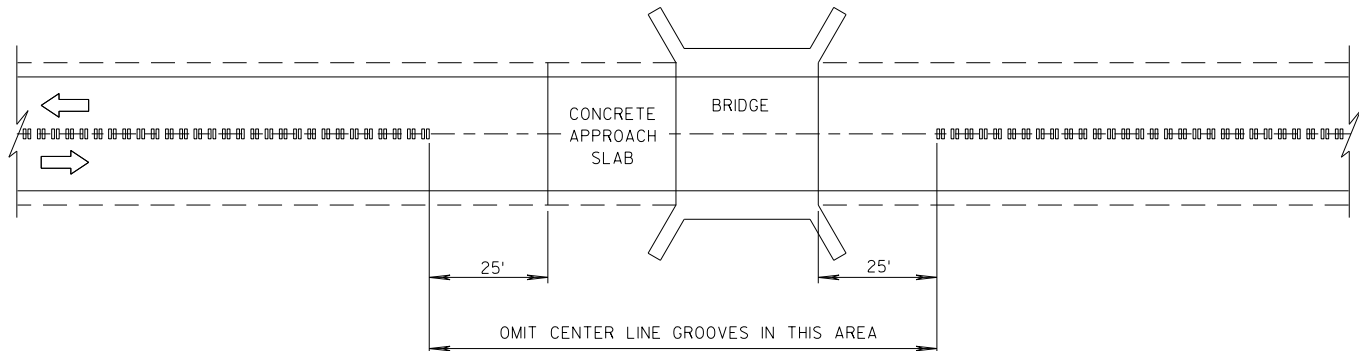
CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)



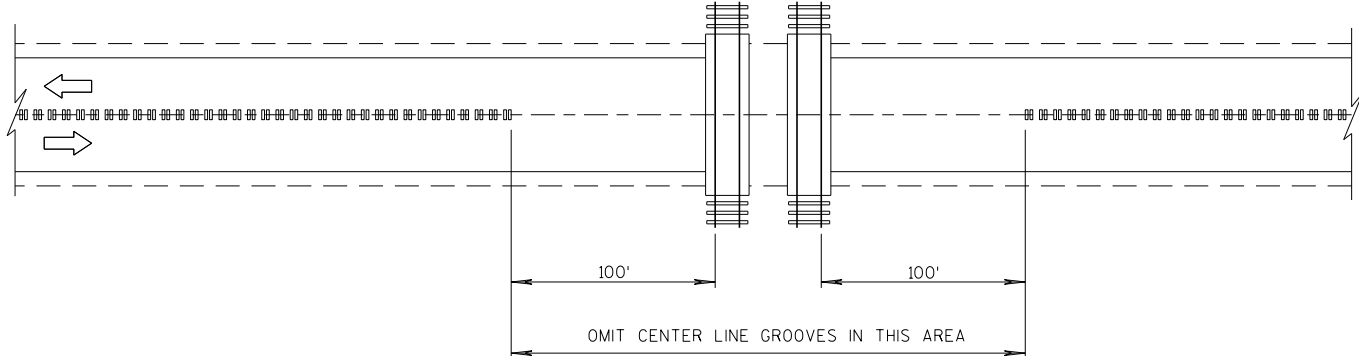
CENTER LINE GROOVES AT DRIVEWAYS

1

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

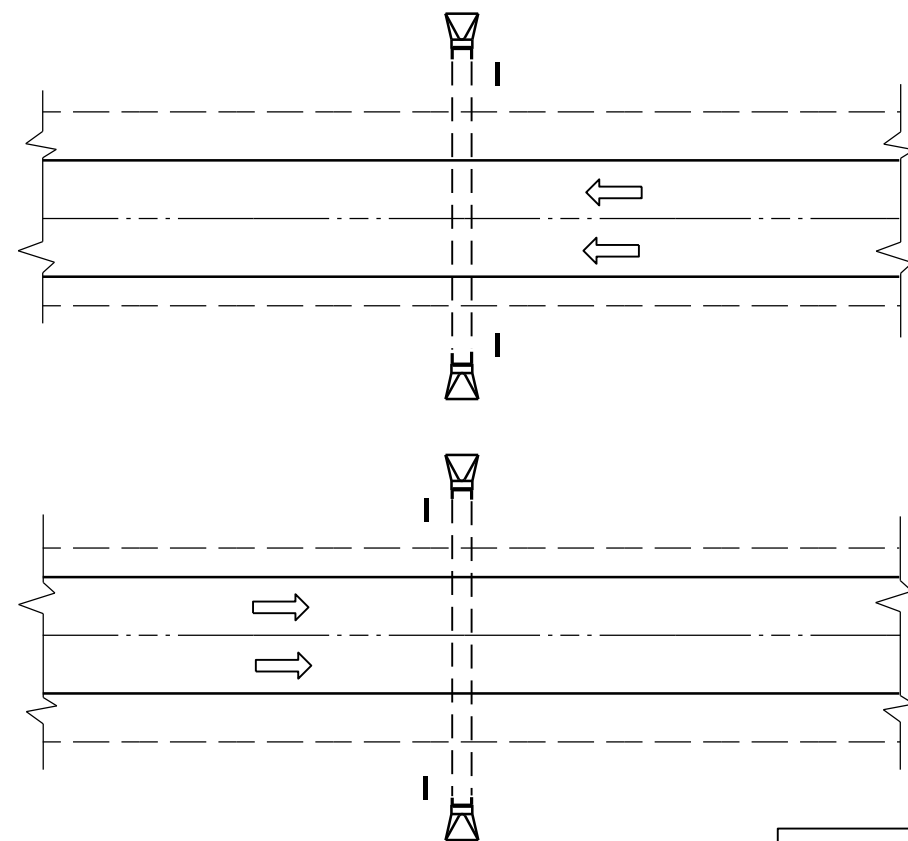


CENTER LINE GROOVES AT BRIDGES

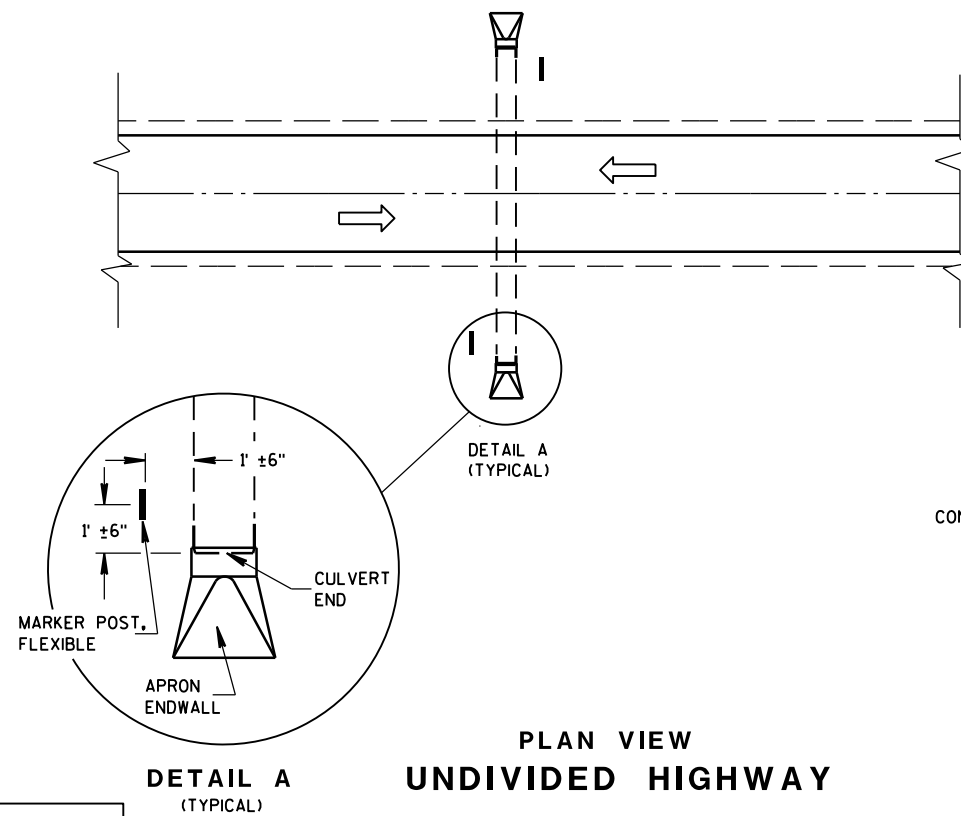


CENTER LINE GROOVES AT RAILROADS

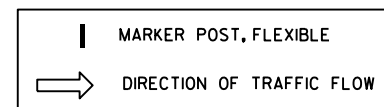
| | |
|--|---|
| 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED 7/2018 DATE | /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR |
| FHWA | |



PLAN VIEW
DIVIDED HIGHWAY



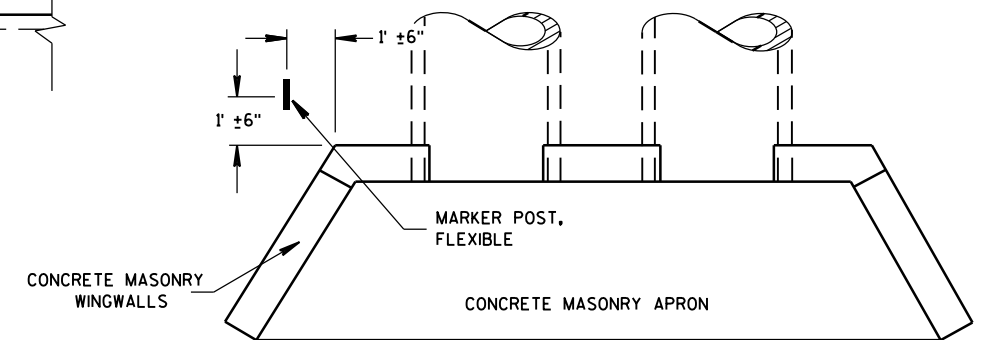
PLAN VIEW
UNDIVIDED HIGHWAY



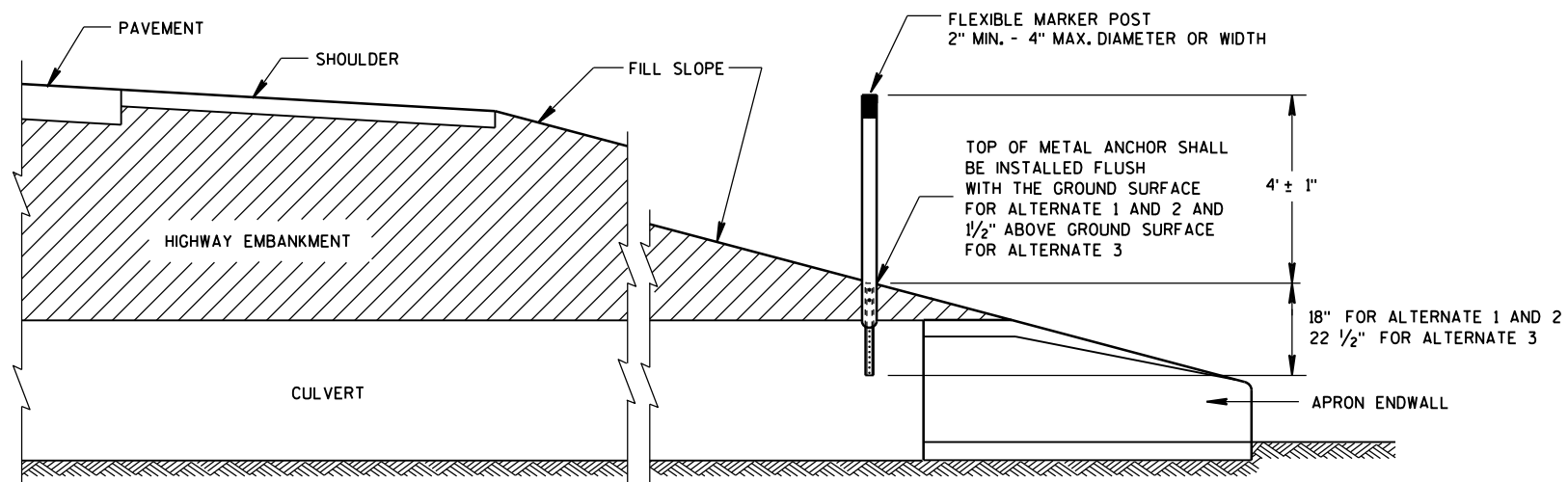
FLEXIBLE MARKER POST LOCATION

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.



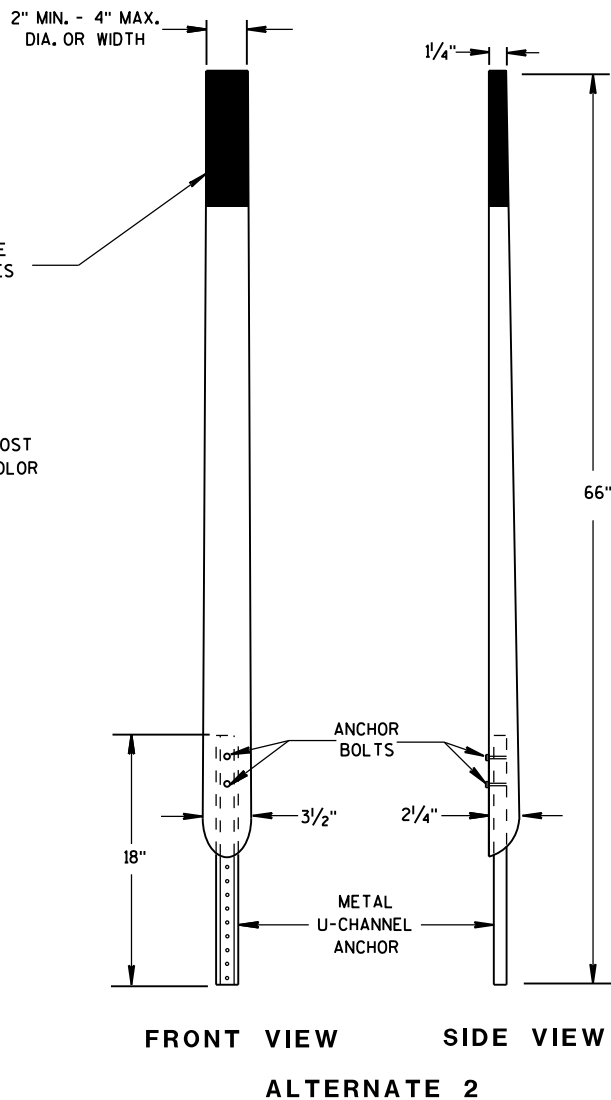
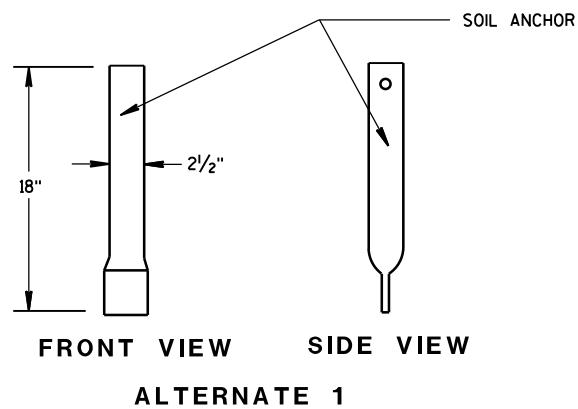
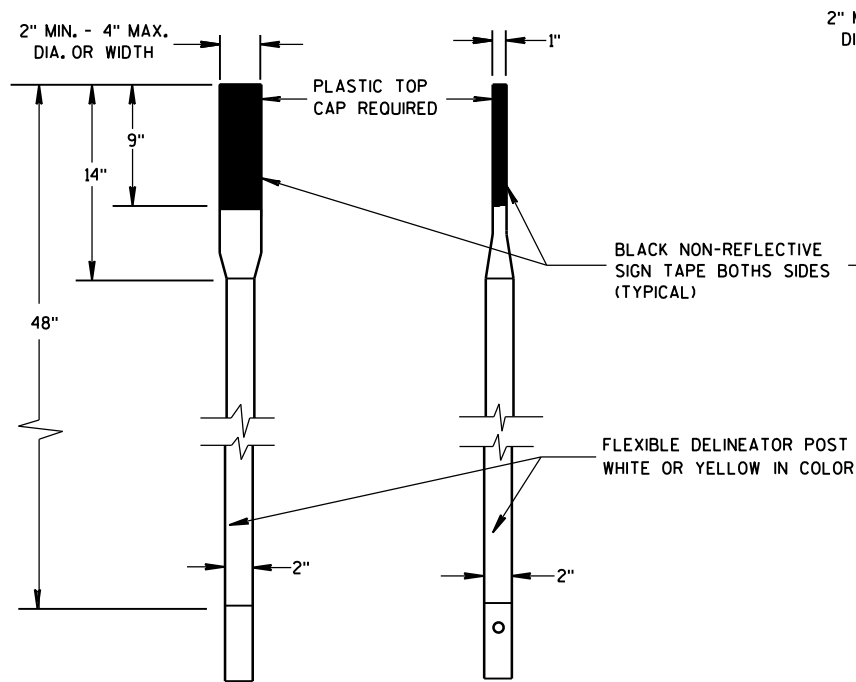
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



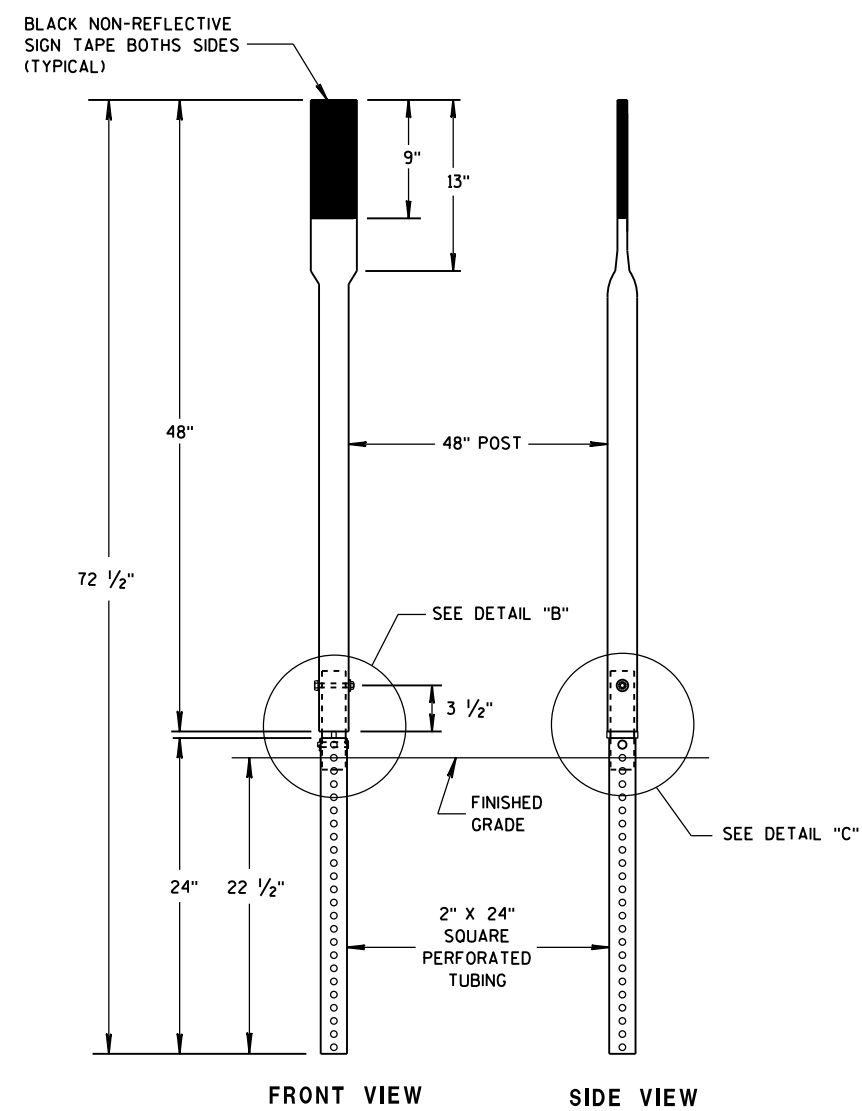
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

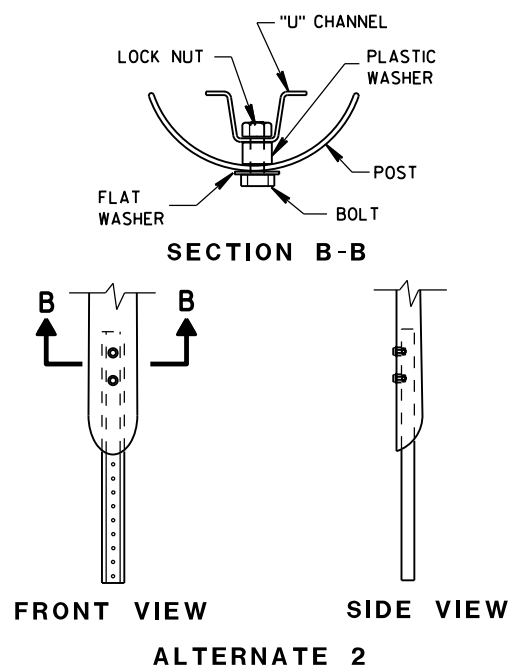
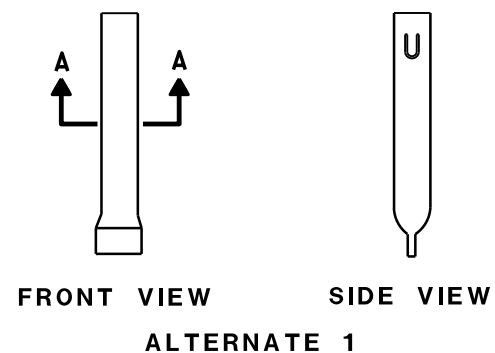
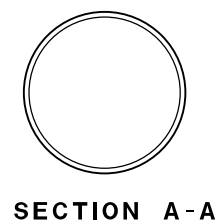
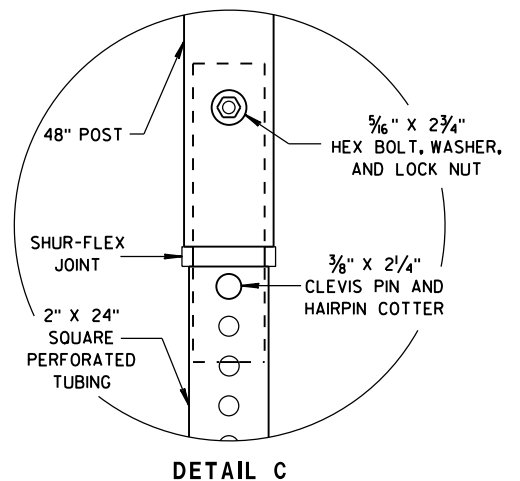
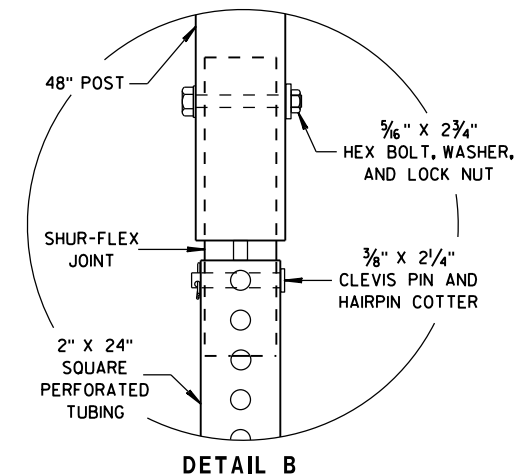
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



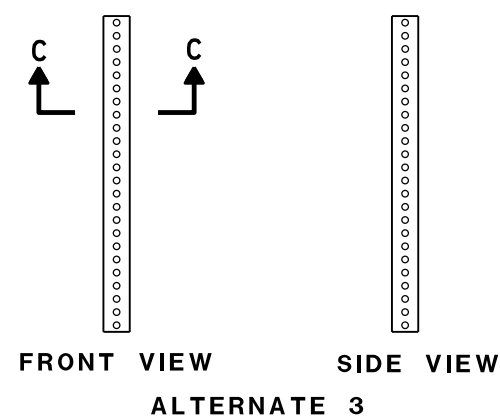
FLEXIBLE MARKER POSTS

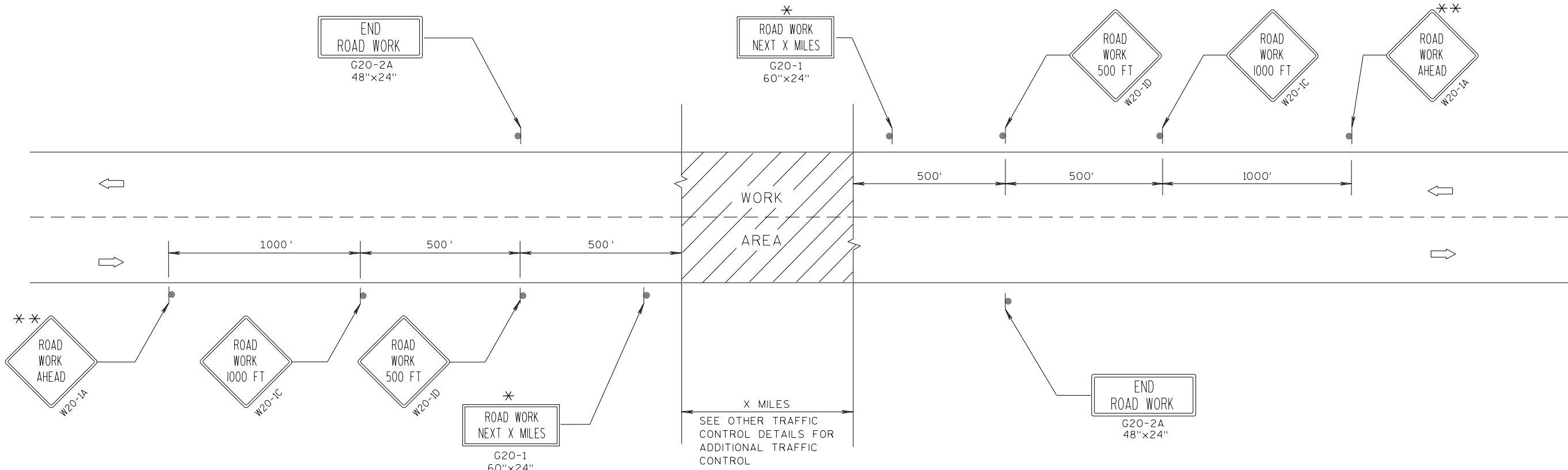


SECTION C-C



FLEXIBLE MARKER POST ANCHORS

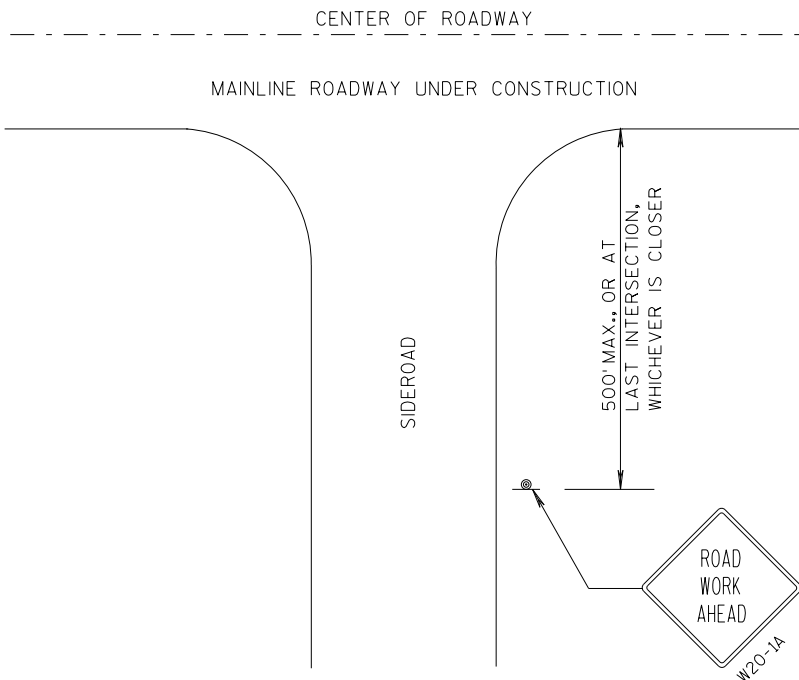
FLEXIBLE MARKER POST
FOR CULVERT ENDSTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATIONAPPROVED
10/1/2012
DATE
FHWA/S/ Travis Feltes
STATE TRAFFIC ENGINEER OF DESIGN



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.



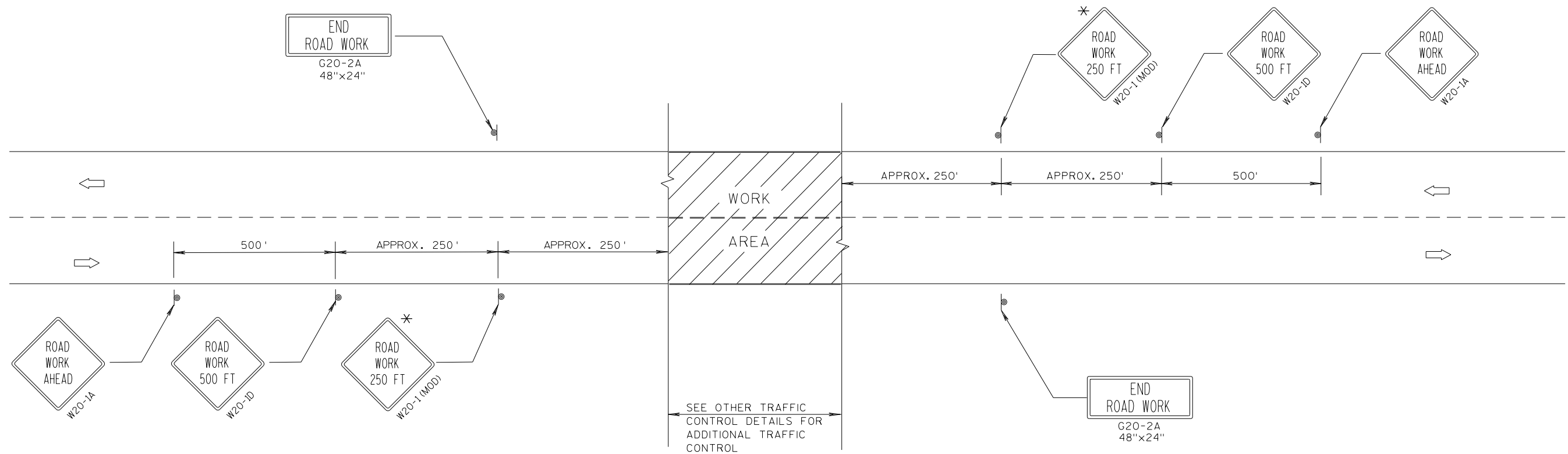
LEGEND

- 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
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

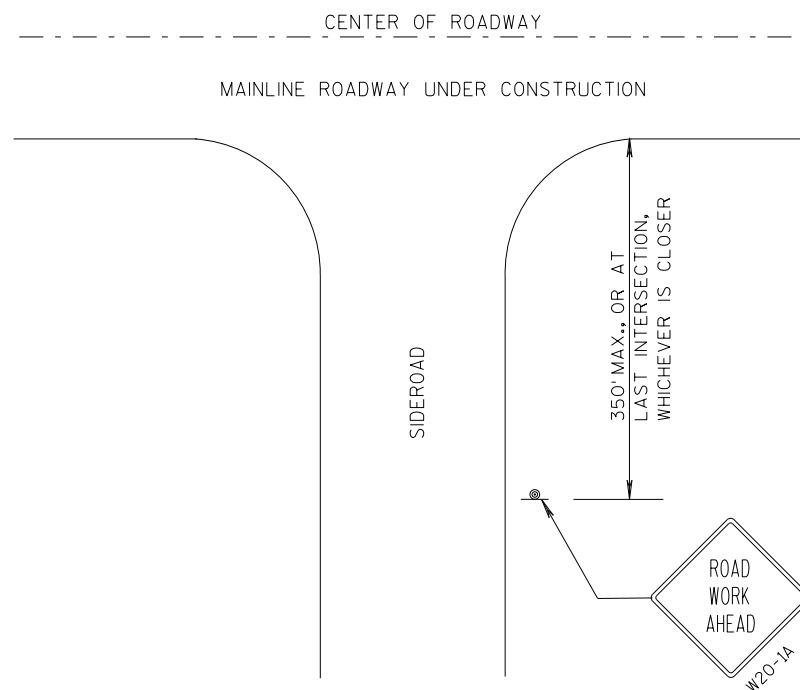
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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



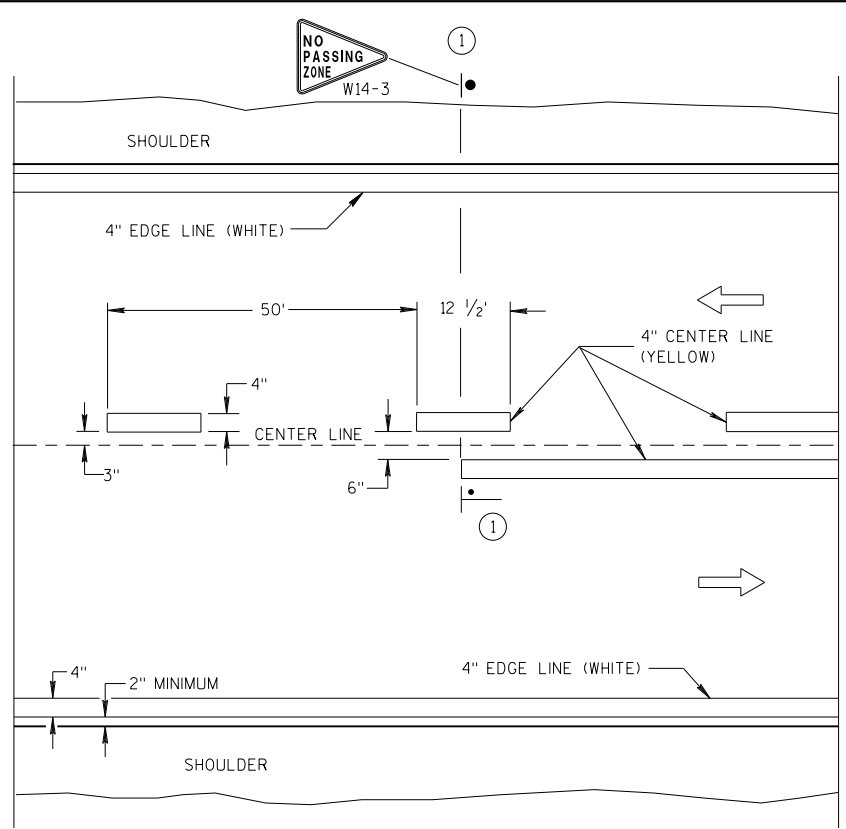
LEGEND

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

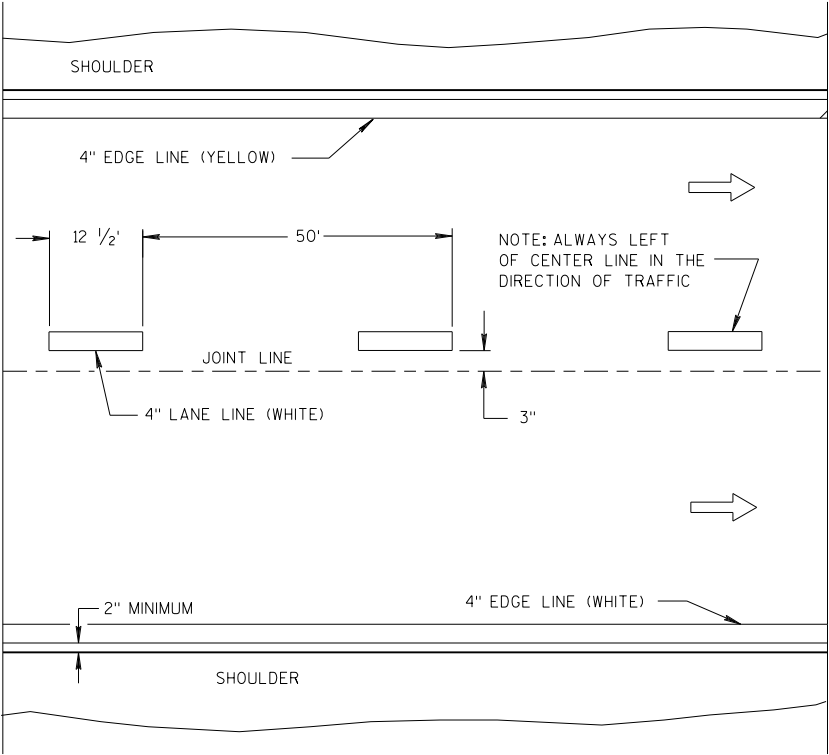
**TRAFFIC CONTROL. ADVANCE
WARNING SIGNS 40 M.P.H.
OR LESS TWO-WAY UNDIVIDED
ROAD OPEN TO TRAFFIC**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

| | |
|----------|--------------------|
| APPROVED | |
| 7/2018 | /S/ Andrew Heidtke |
| DATE | WORK ZONE ENGINEER |
| FHWA | |

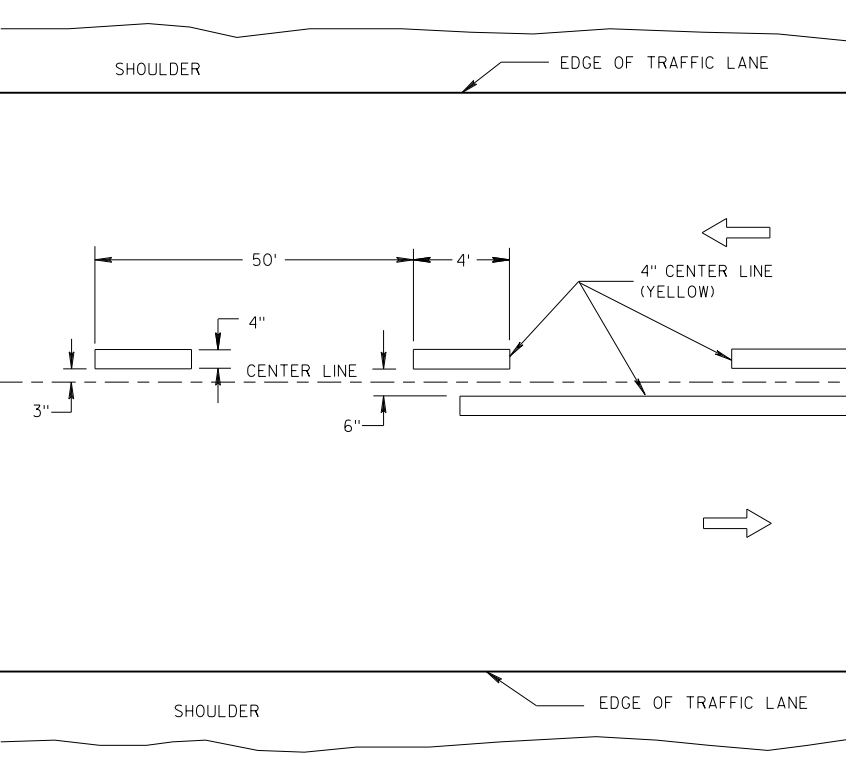


TWO WAY TRAFFIC

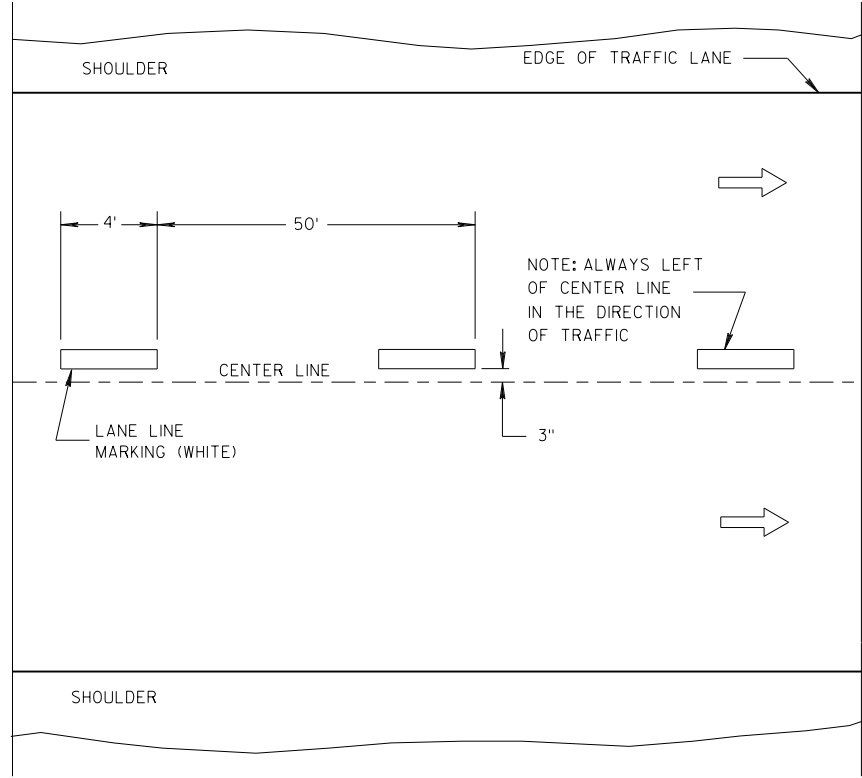


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

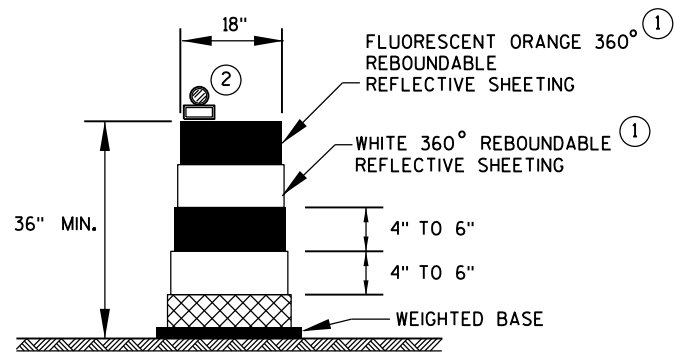
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

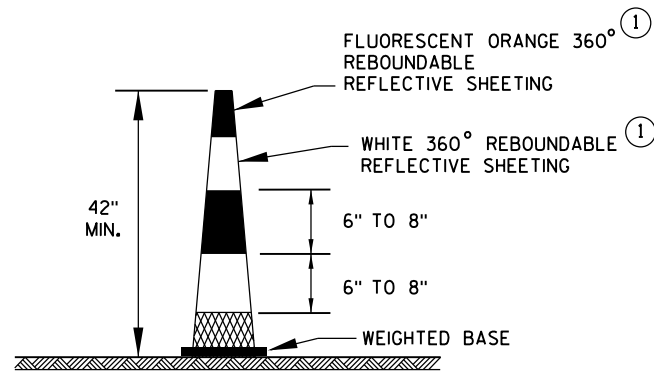
LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



DRUM

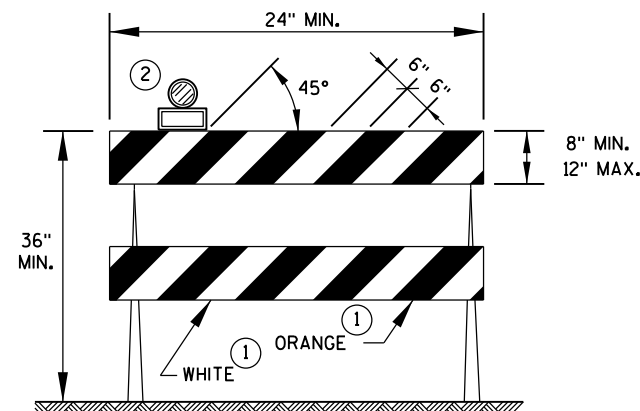


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

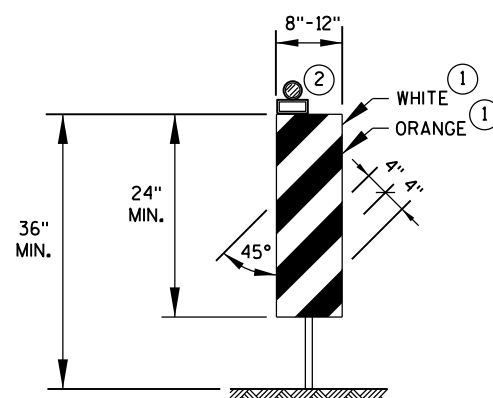
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



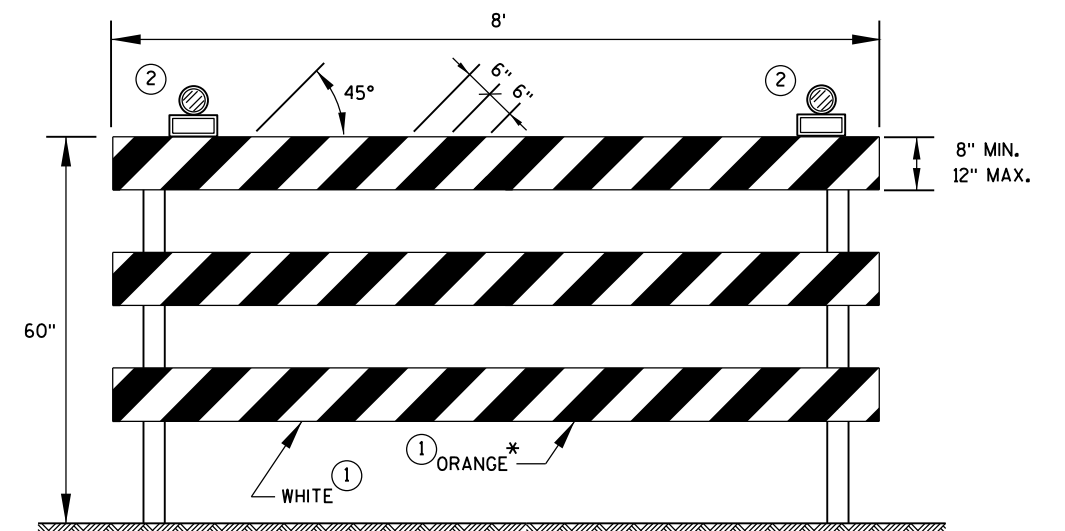
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

FHWA

/S/ Andrew Heidtke
WORK ZONE ENGINEER

LEGEND

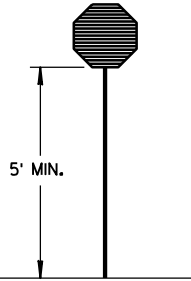
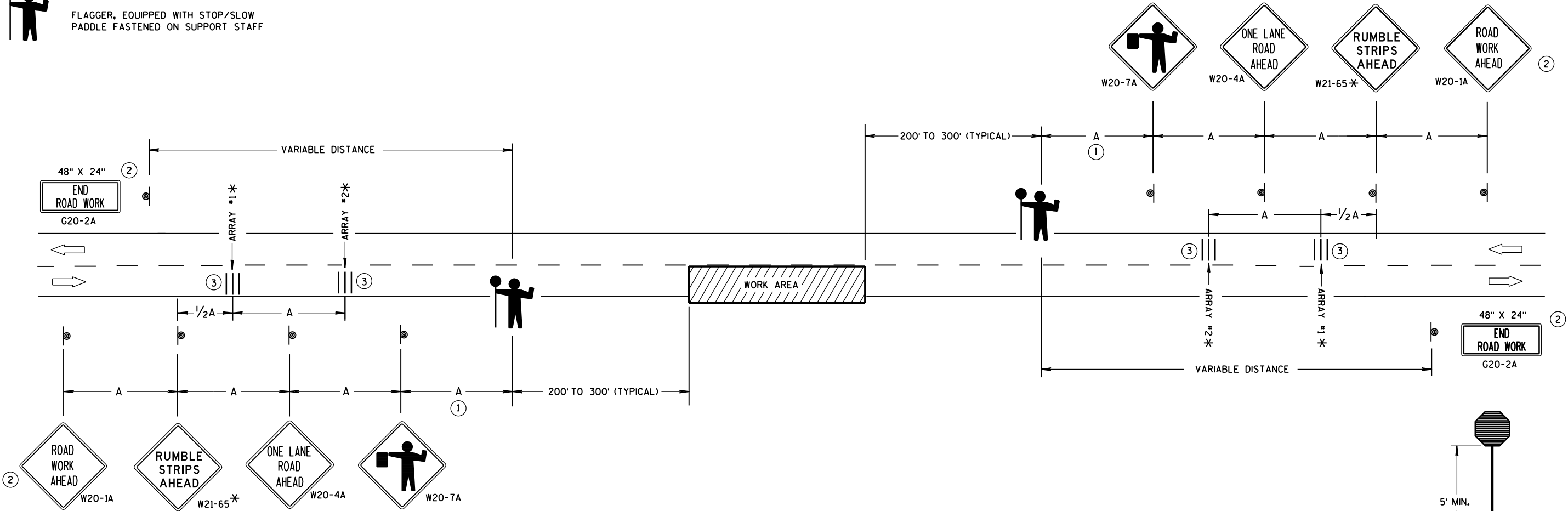
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



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



STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

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

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENGINEER
FHWA

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

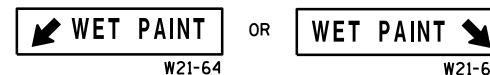
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

- ④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR



SIGN ON TEMPORARY SUPPORT

 DIRECTION OF TRAFFIC

○ CONES



FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

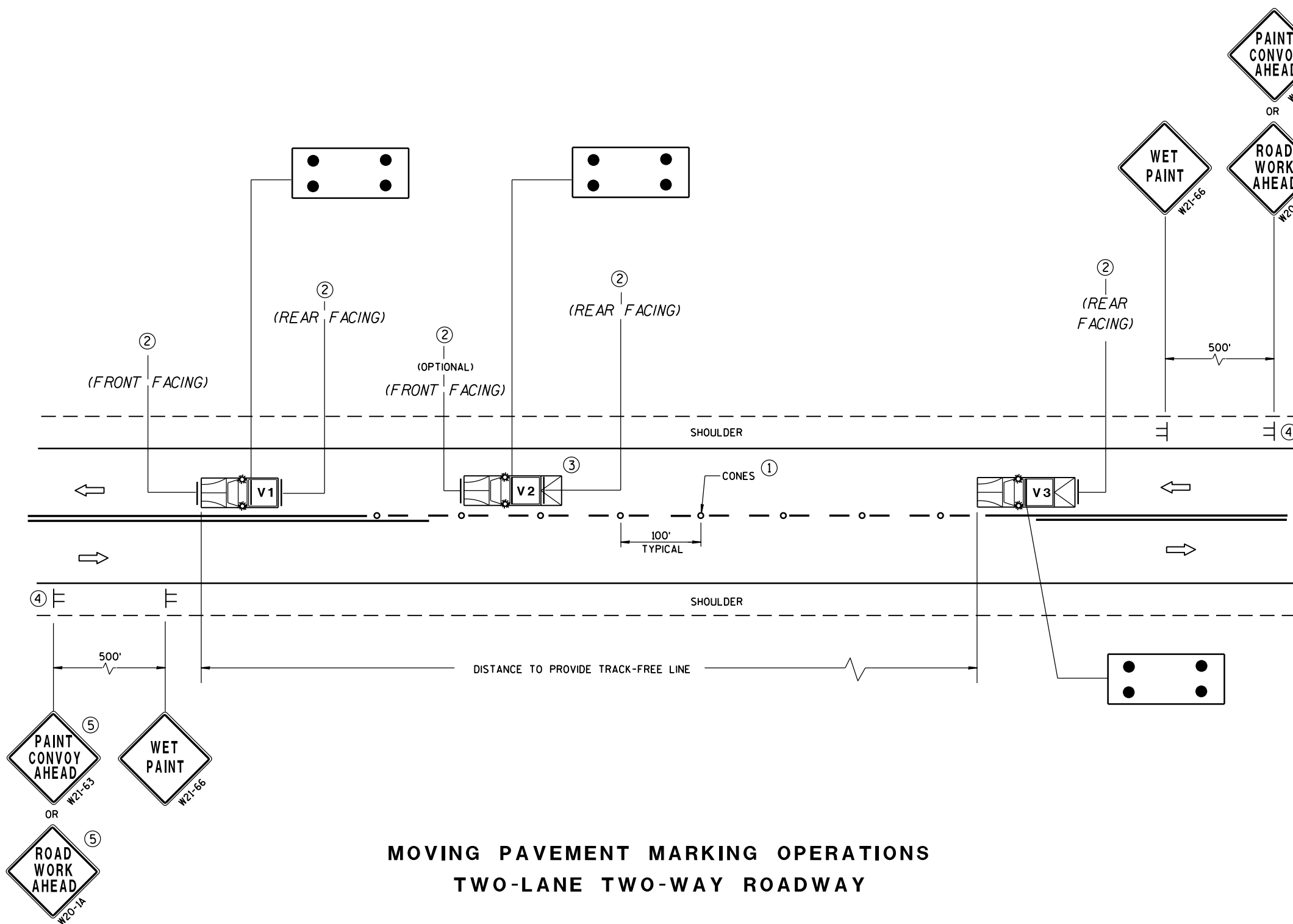
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

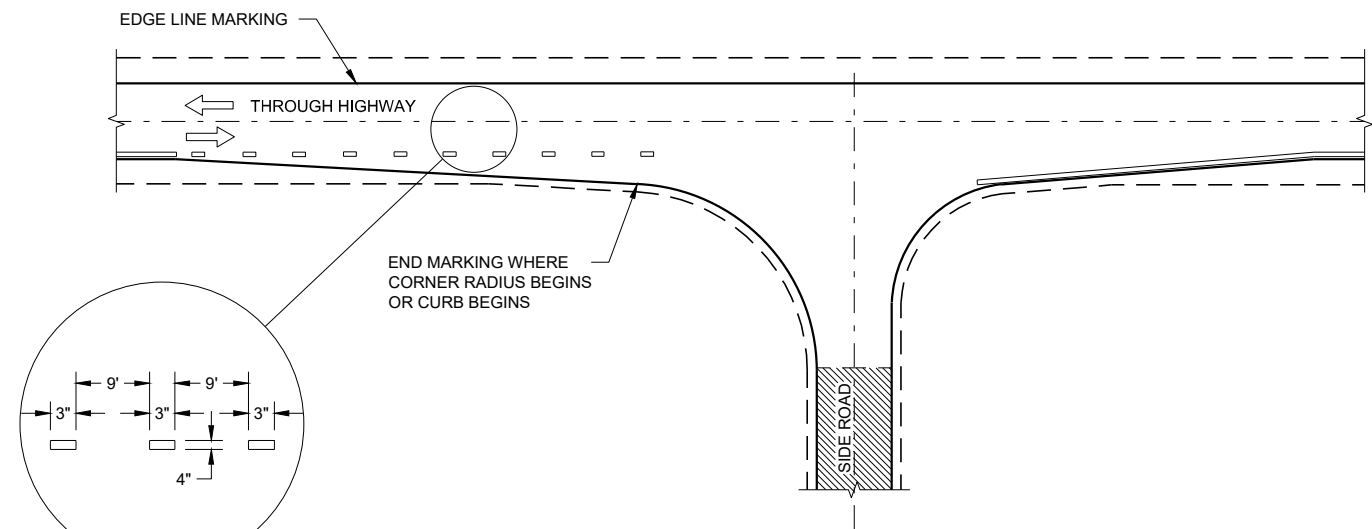
APPROVED

Sept., 2017
DATE

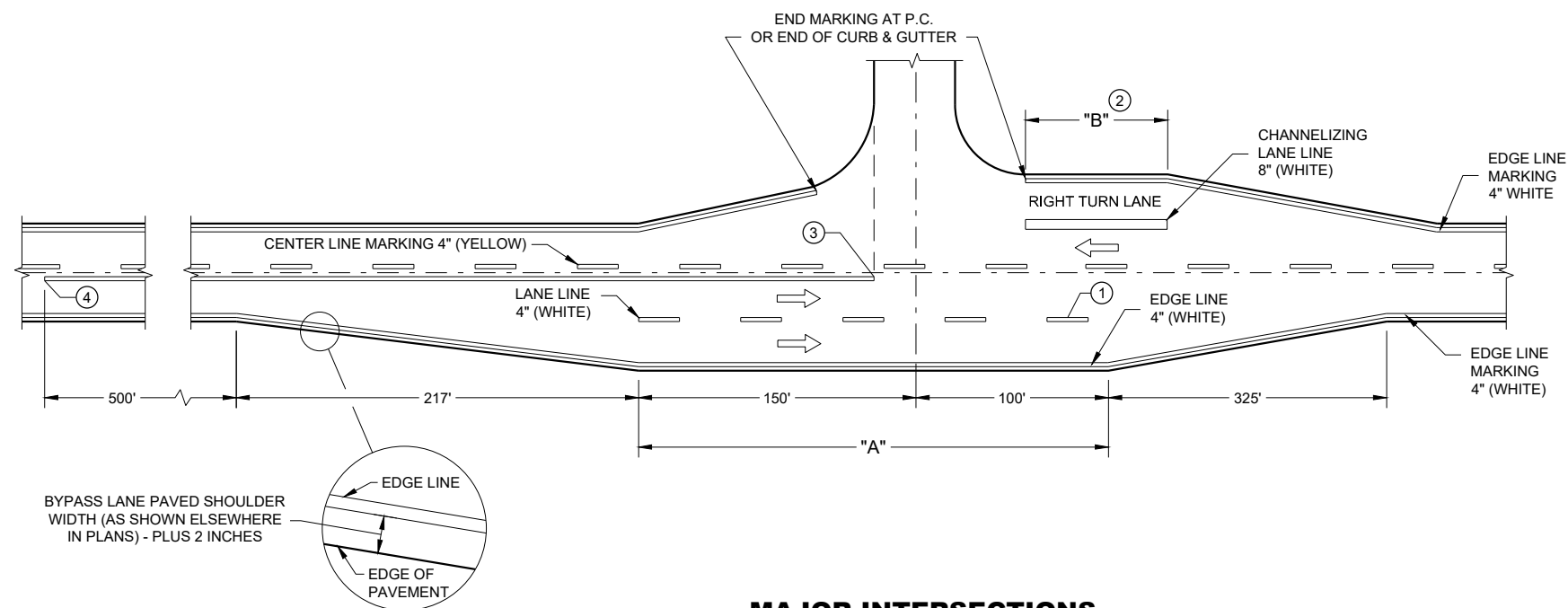
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA





MINOR INTERSECTION



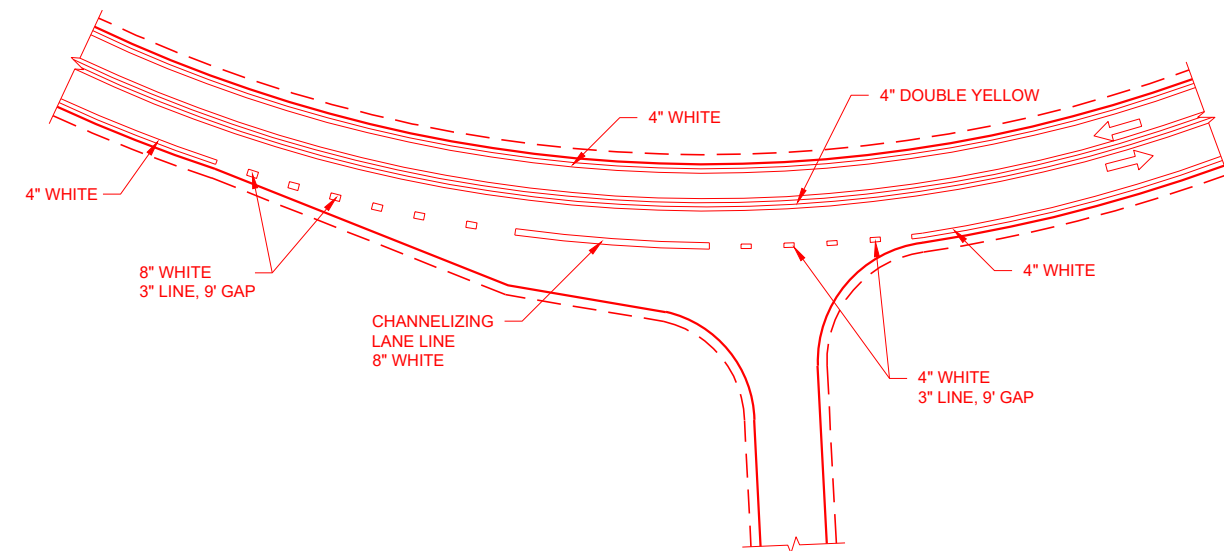
MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

GENERAL NOTES

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

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

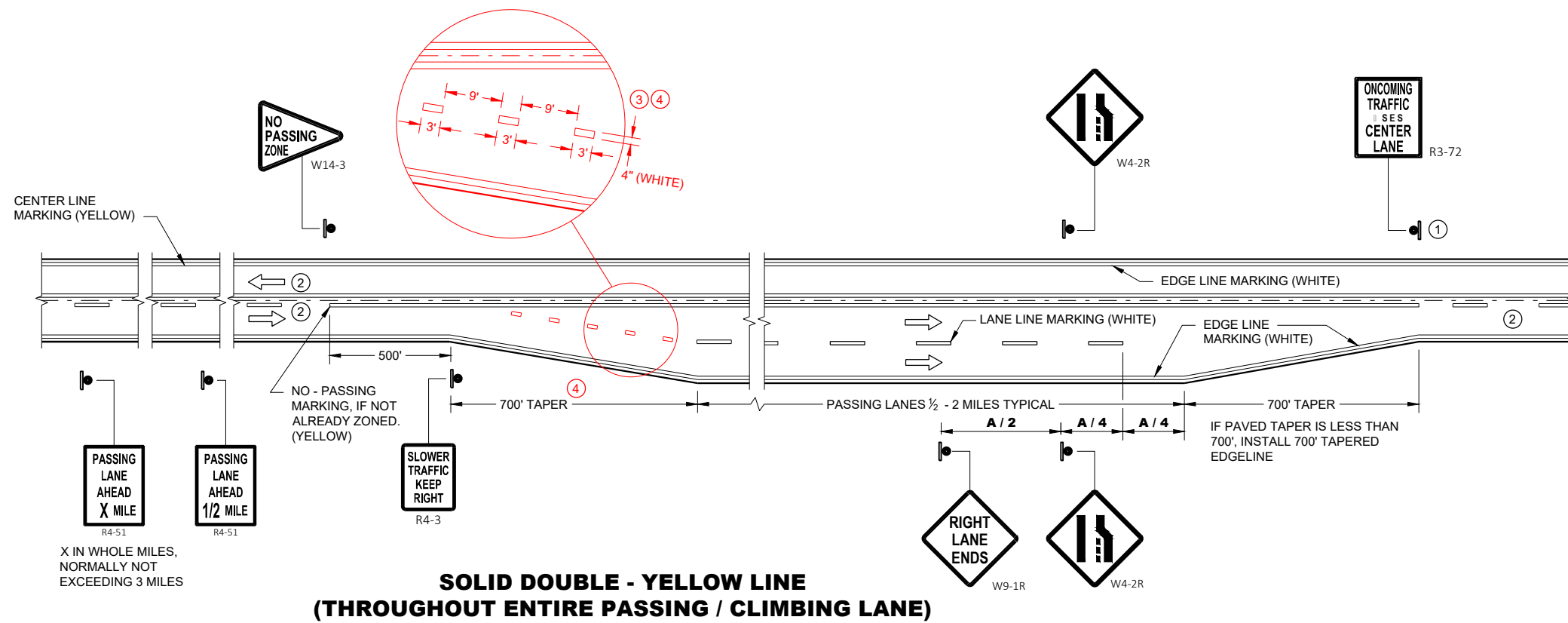
ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

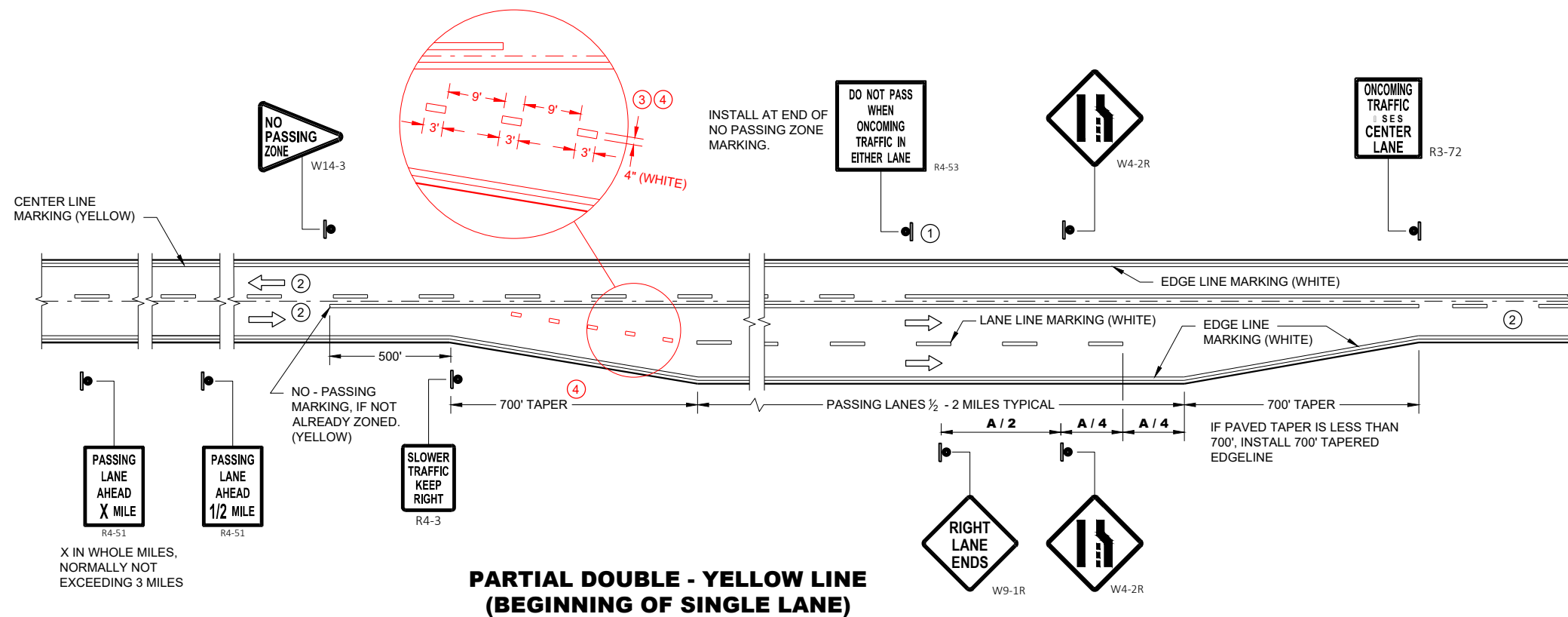


GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

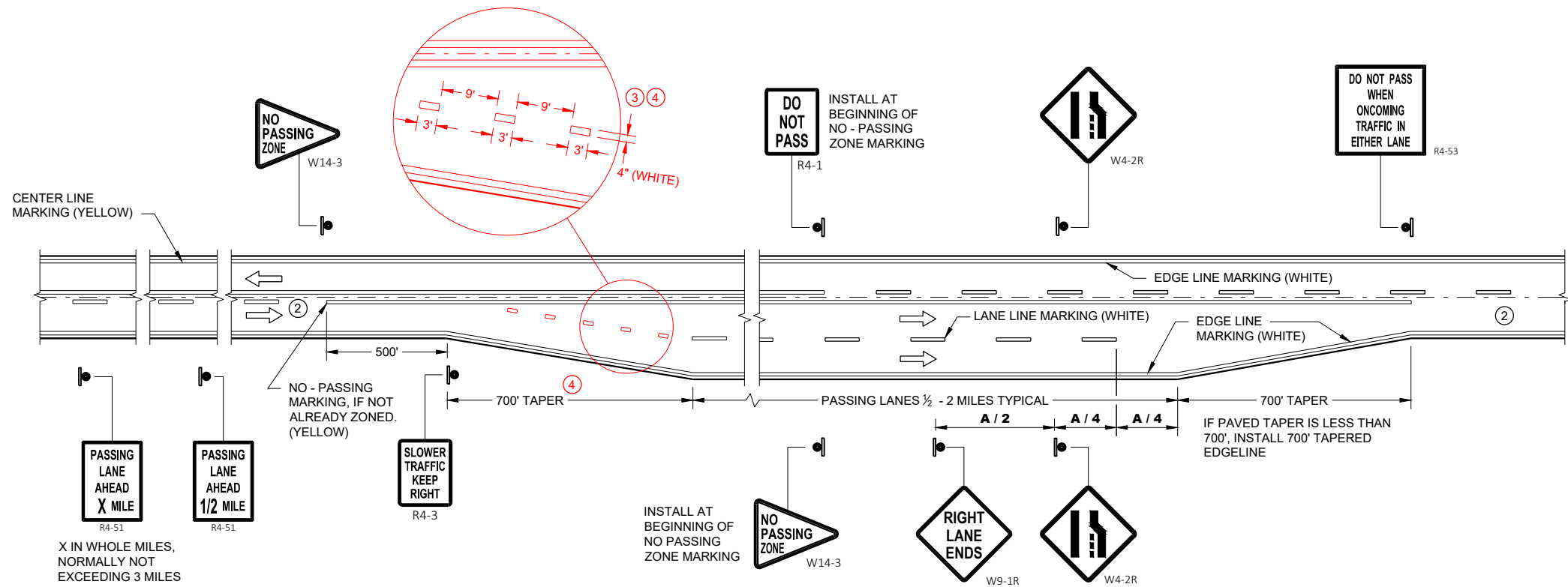
ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

| POSTED OR 85th PERCENTILE SPEED | DISTANCE "A" |
|--|---------------------|
| 45 | 775 |
| 50 | 850 |
| 55 | 950 |

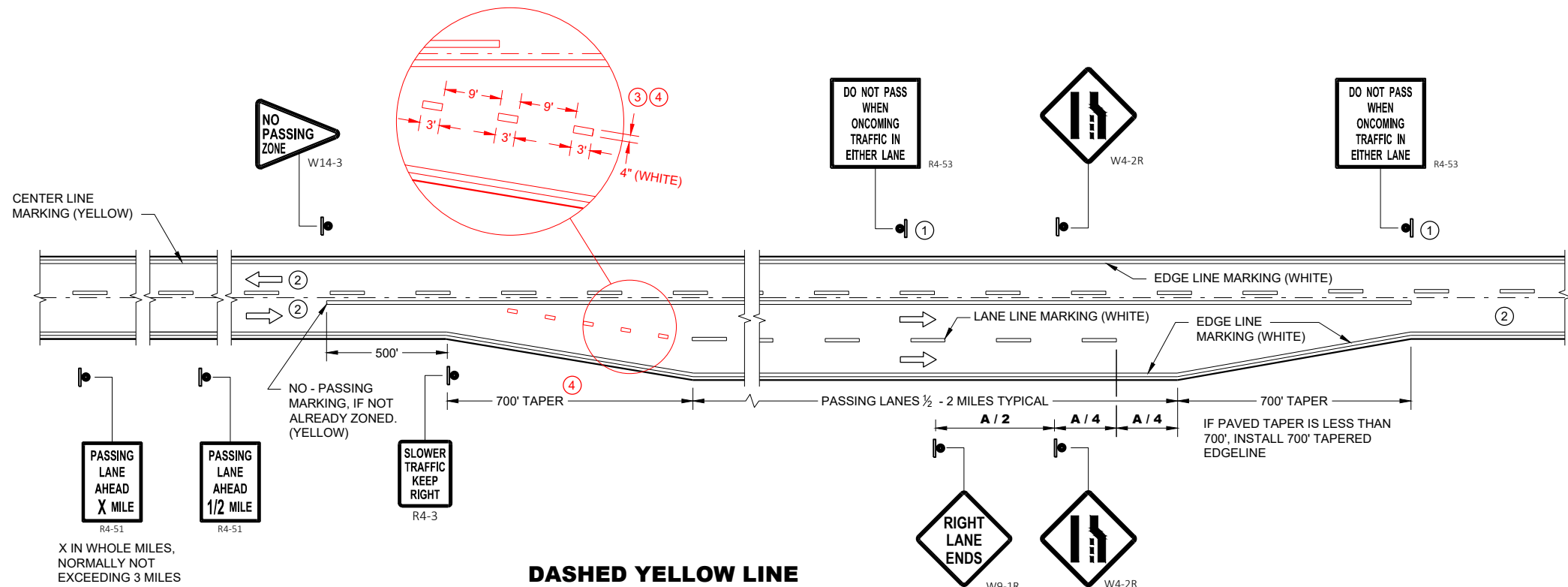


PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)**



**DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)**

GENERAL NOTES

- 1 SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2 THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

| POSTED OR 85th PERCENTILE SPEED | DISTANCE "A" |
|---------------------------------|--------------|
| 45 | 775 |
| 50 | 850 |
| 55 | 950 |

**PAVEMNET MARKING & SIGNING
(CLIMBLING LANE & PASSING LANE)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
00-00-00
DATE
/S/ <AUTHOR>
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

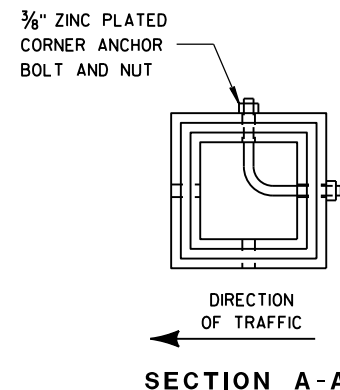


DETAIL OF TUBULAR
STEEL SIGN POST

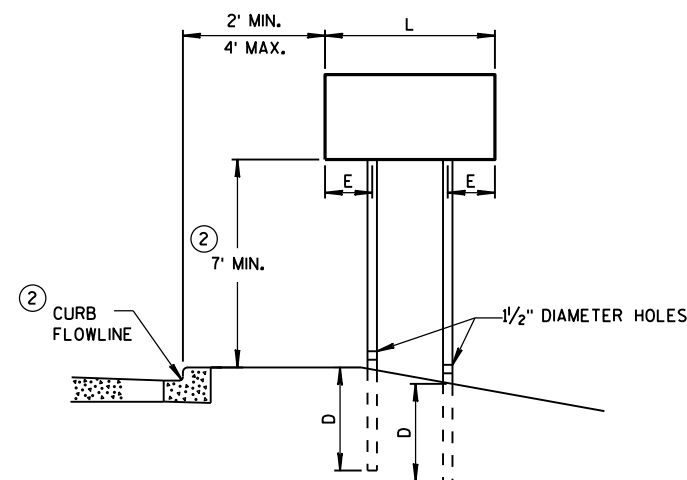
TUBULAR STEEL POSTS

| AREA OF SIGN INSTALLATION (SQ. FT.) | NUMBER OF REQUIRED TUBULAR STEEL 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).
SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED
ON TUBULAR STEEL POSTS.



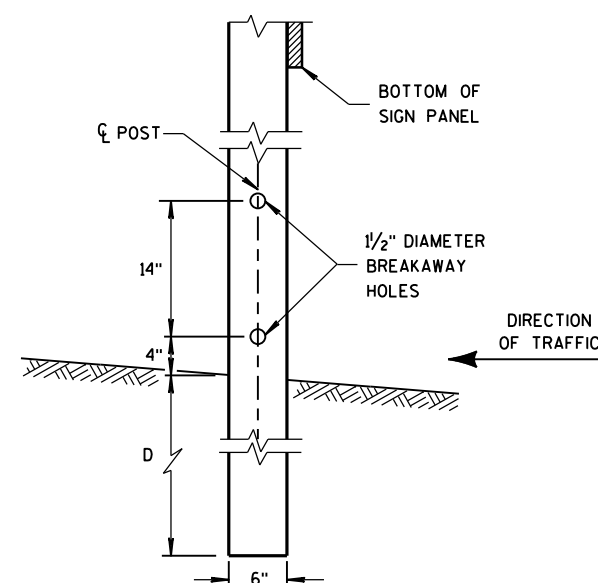
SECTION A-A



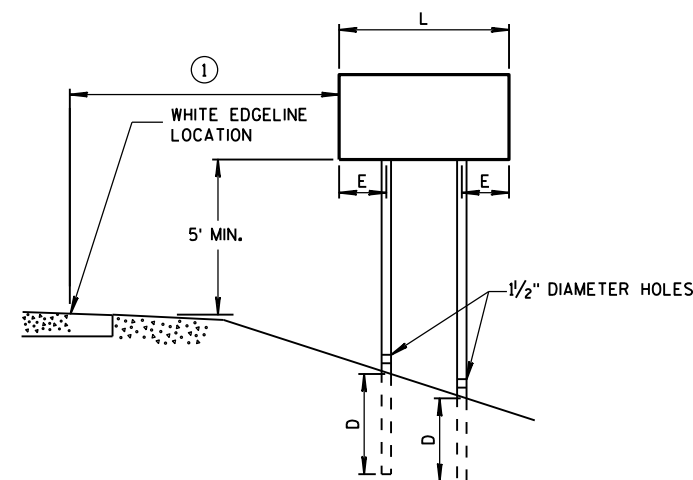
URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

| WOOD POST EMBEDMENT DEPTH | |
|---|------------|
| AREA OF SIGN INSTALLATION (SQ. FT.) | D (MIN) |
| 20 OR LESS | 4' |
| GREATER THAN 20 | 5' |



4 "x6 " WOOD POST
MODIFICATION



RURAL AREA

| POST SPACING REQUIREMENTS | | NUMBER OF WOOD POSTS REQUIRED |
|---|-----|-------------------------------------|
| L | E | |
| 48" OR LESS AND LESS THAN 20 SQ. FT. | - | 1 |
| LESS THAN 60" | 12" | 2 |
| 60" TO 120" | L/5 | 2 |
| GREATER THAN 120" LESS THAN 168" | 12" | 3 |
| 168" AND GREATER | 12" | 4 |

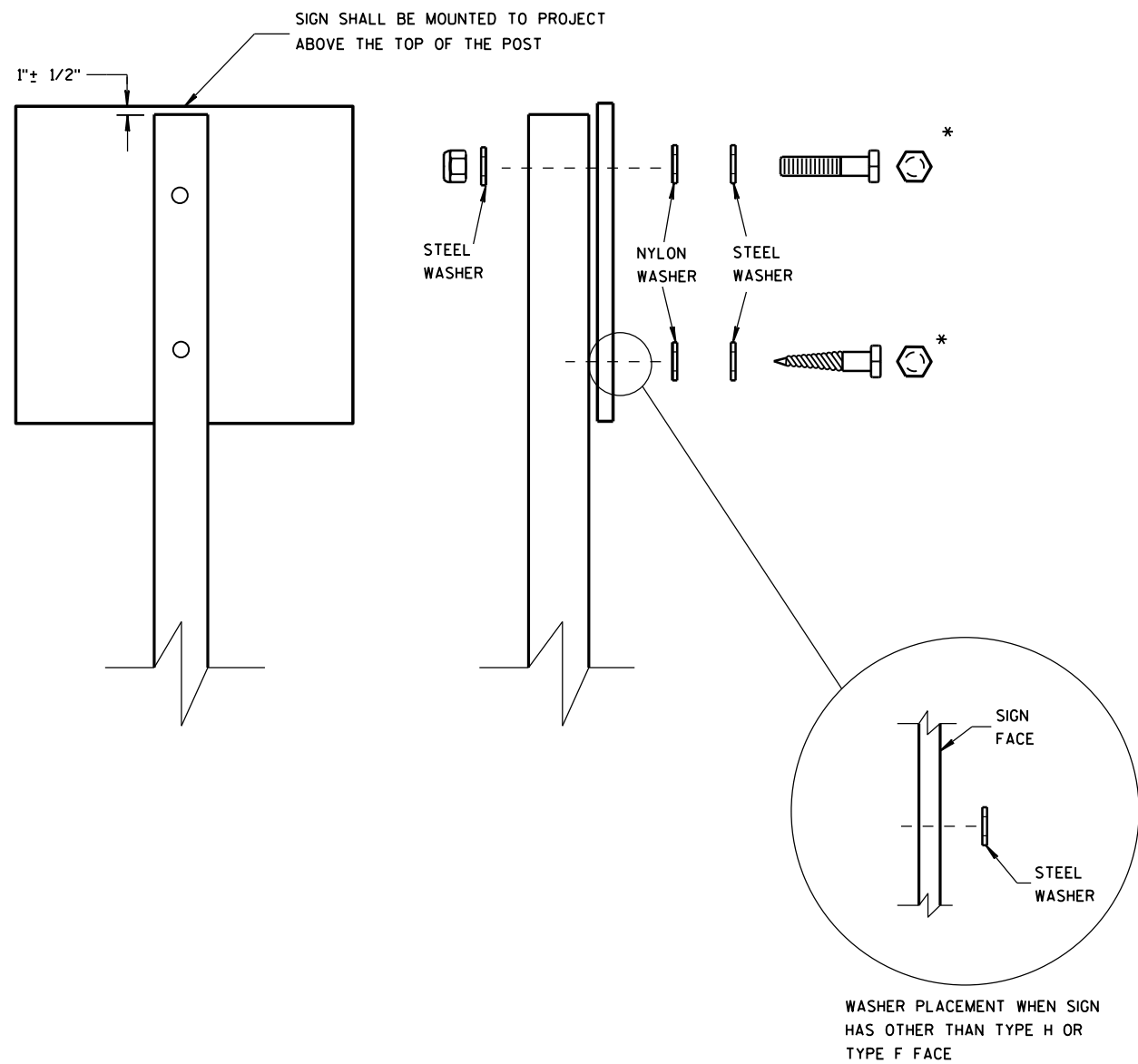
SEE NOTE ③

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② 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. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

TEMPORARY TRAFFIC CONTROL
SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

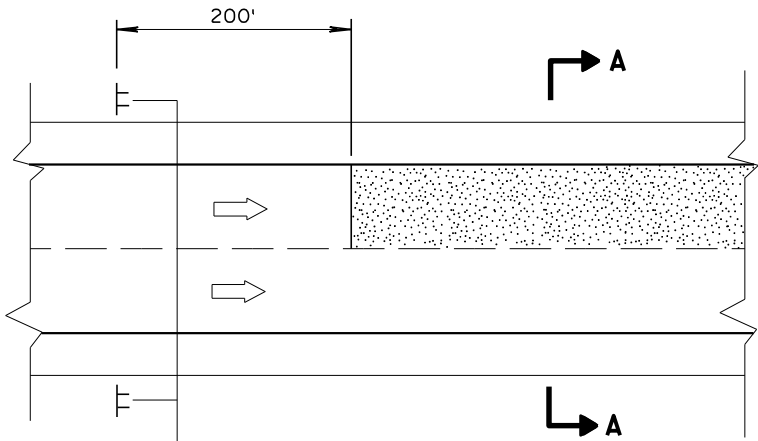
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" x 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

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

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

| | |
|--|--|
| ATTACHMENT OF SIGNS TO POSTS | |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
| APPROVED June 2017 DATE | /S/ Andrew Heldtke WORK ZONE ENGINEER |
| FHWA | |

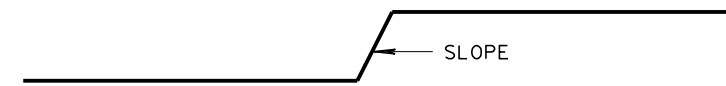


MULTI-LANE

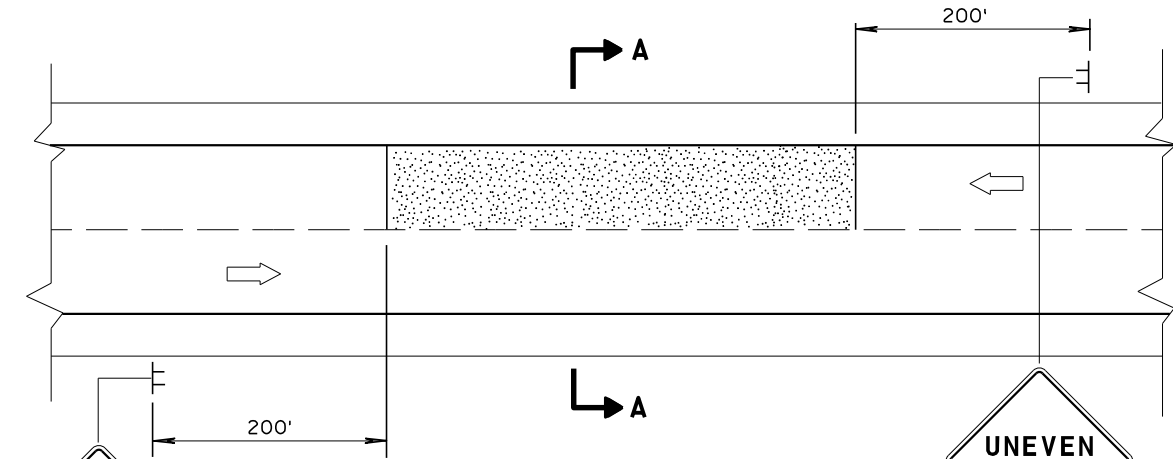


SECTION A-A

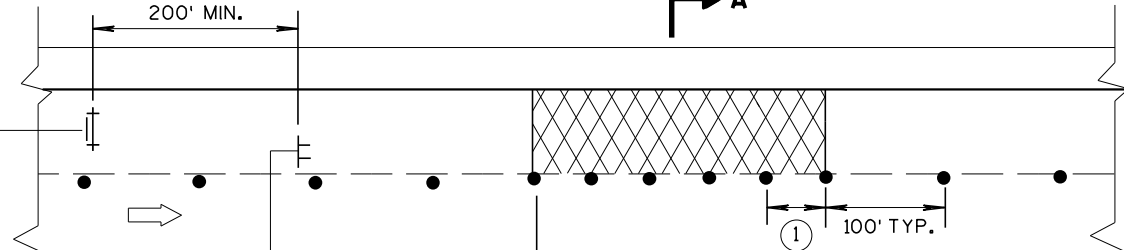
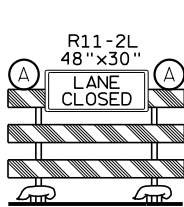
OR



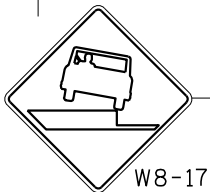
SECTION A-A



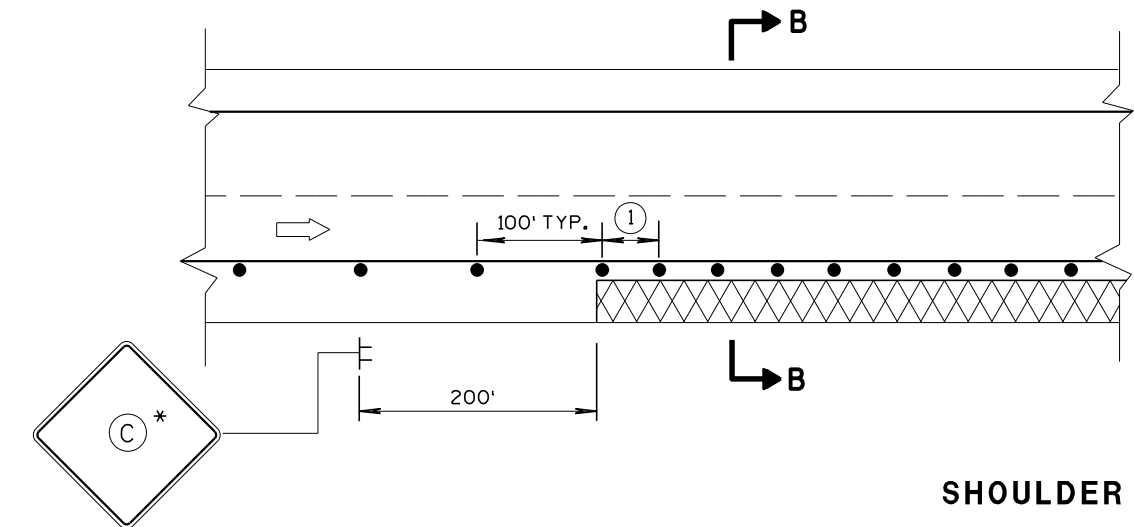
TWO-WAY TWO LANE



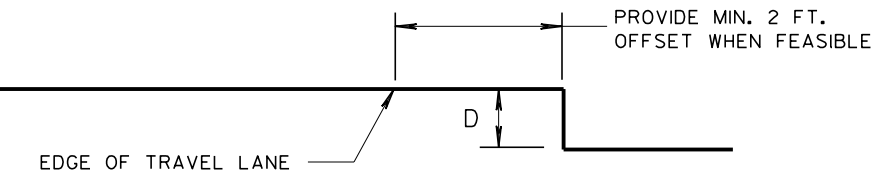
MULTI-LANE BASE PATCHING



ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B-B

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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



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

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EACH ENTRANCE RAMP.

① USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

| D | SIGN (C) |
|---------------------------------------|---|
| < 2" WITH A SLOPE STEEPER THAN 3:1 |  W08-9 |
| 2" < 6" WITH A SLOPE STEEPER THAN 3:1 |  W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT |

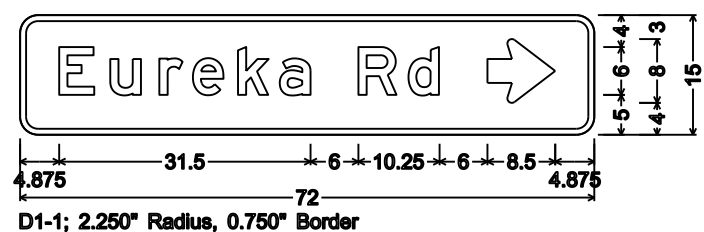
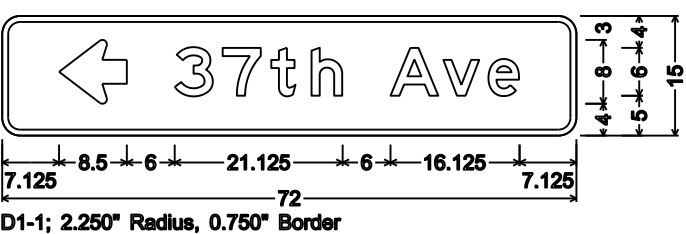
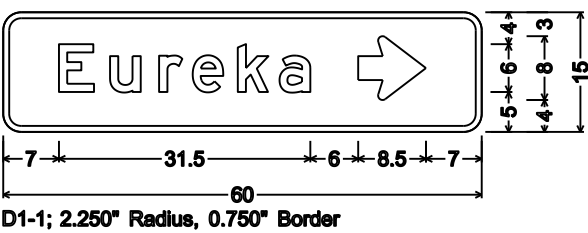
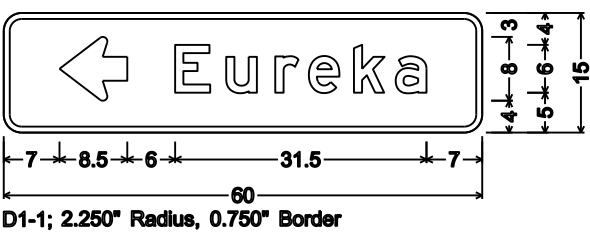
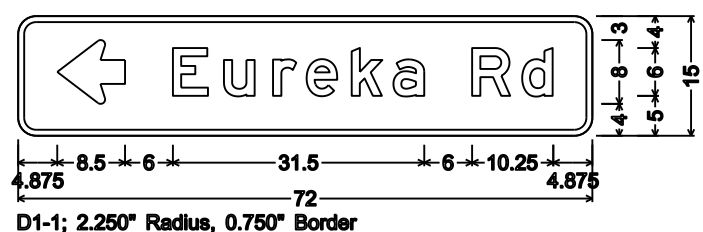
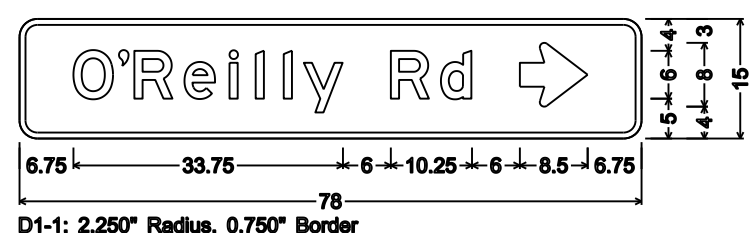
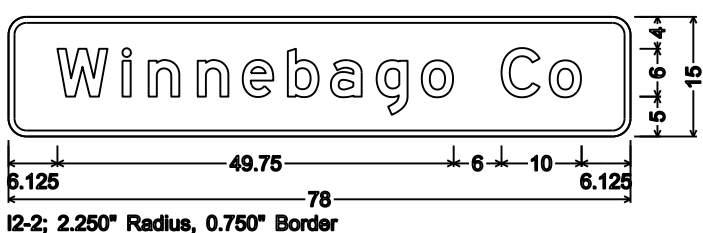
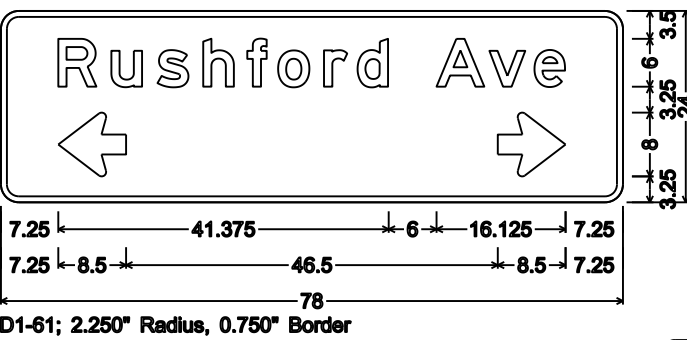
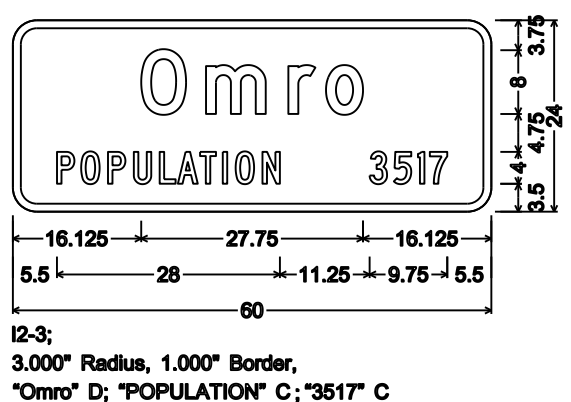
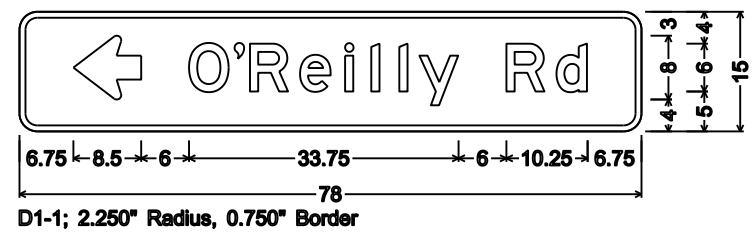
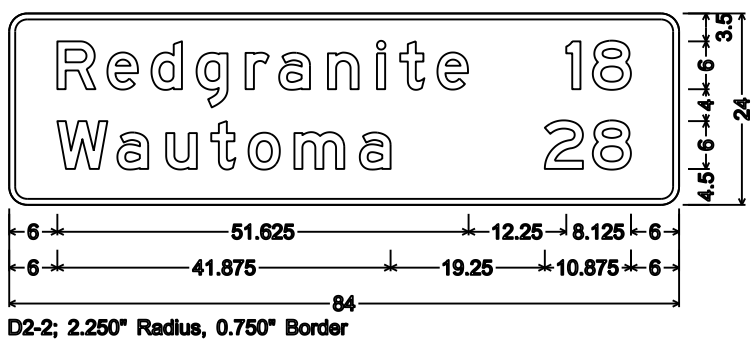
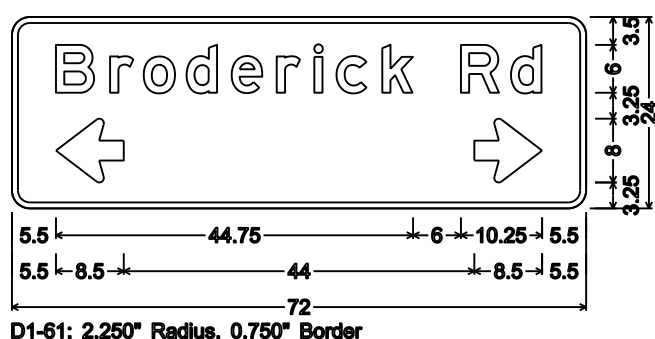
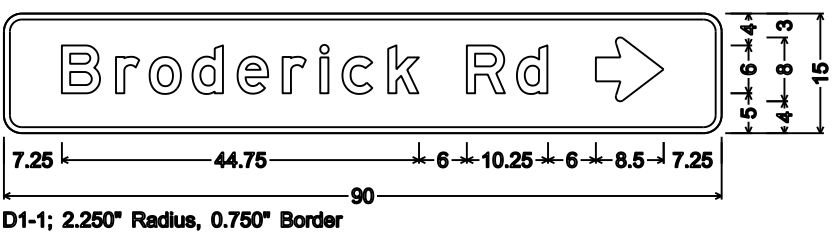
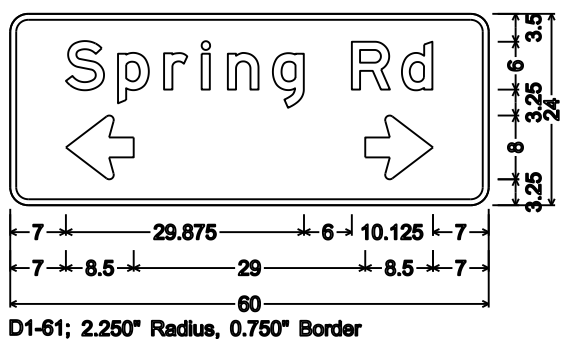
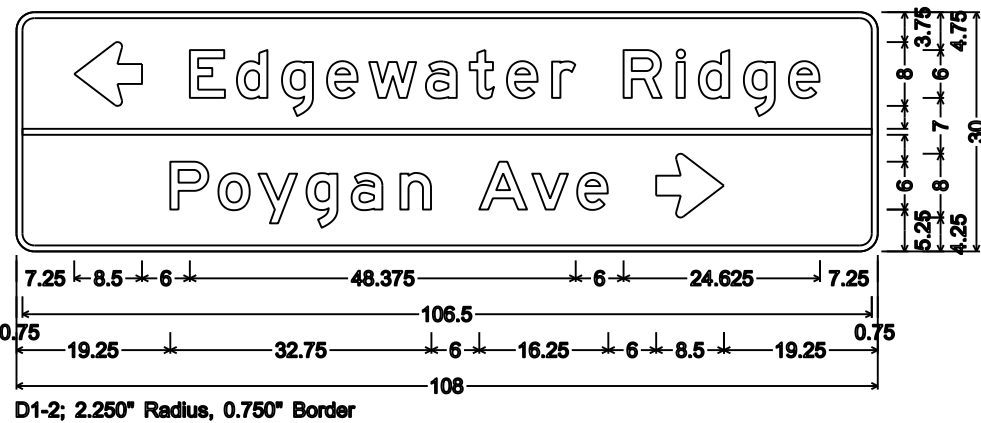
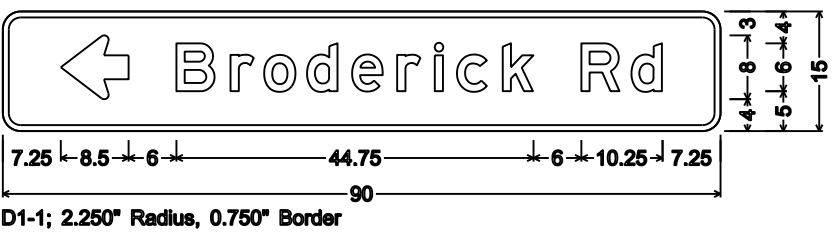
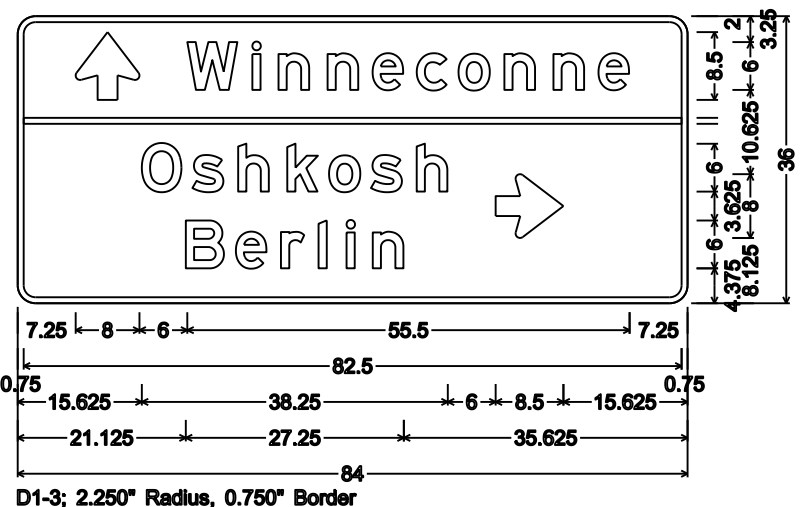
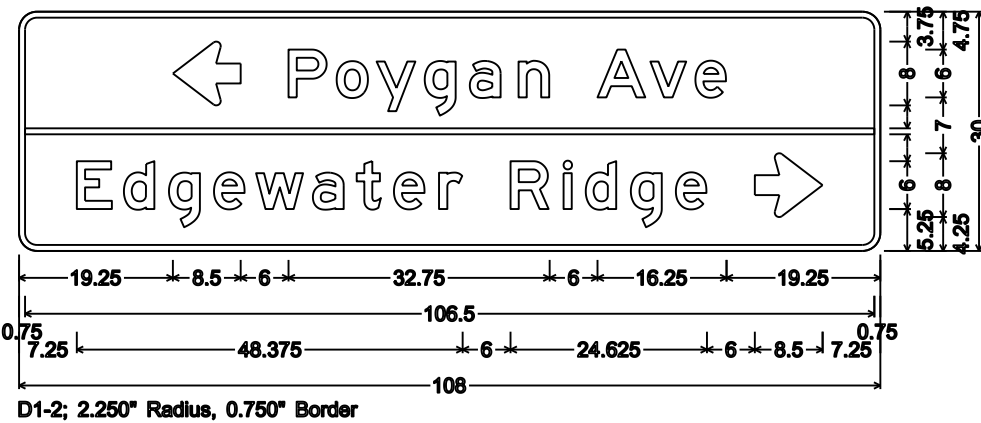
TRAFFIC CONTROL,
DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

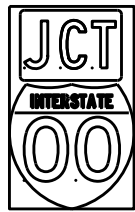
APPROVED
March 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

NOTES

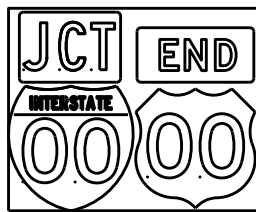
- 1. All Signs Type II - Type H Reflective
- 2. Color:
Background - Green
Message - White
- 3. Message Series - E except as noted



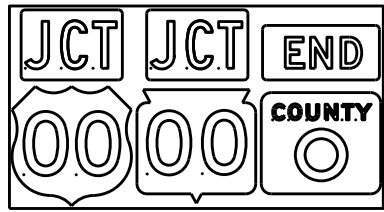
TYPICAL ASSEMBLIES



J1-1



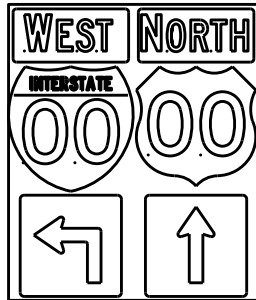
J1-2



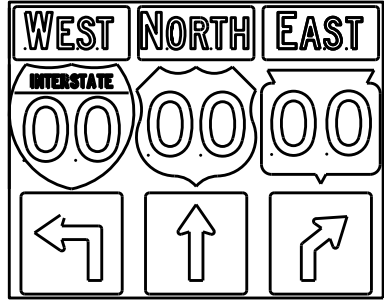
J1-3



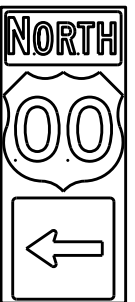
J2-1



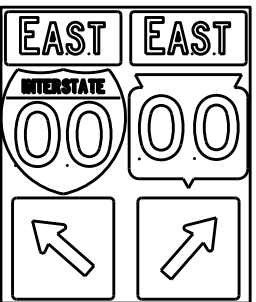
J2-2



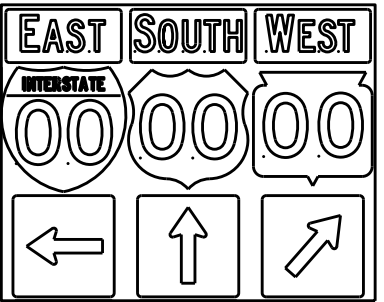
J2-3



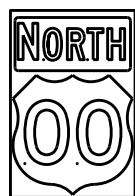
J3-1



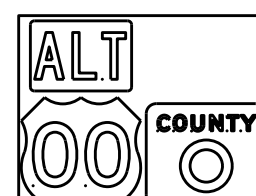
J3-2



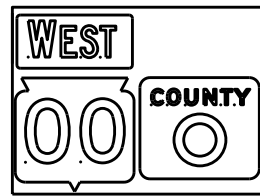
J3-3



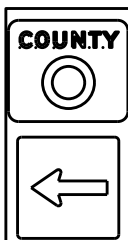
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

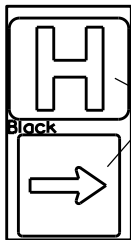


J22-1



JV

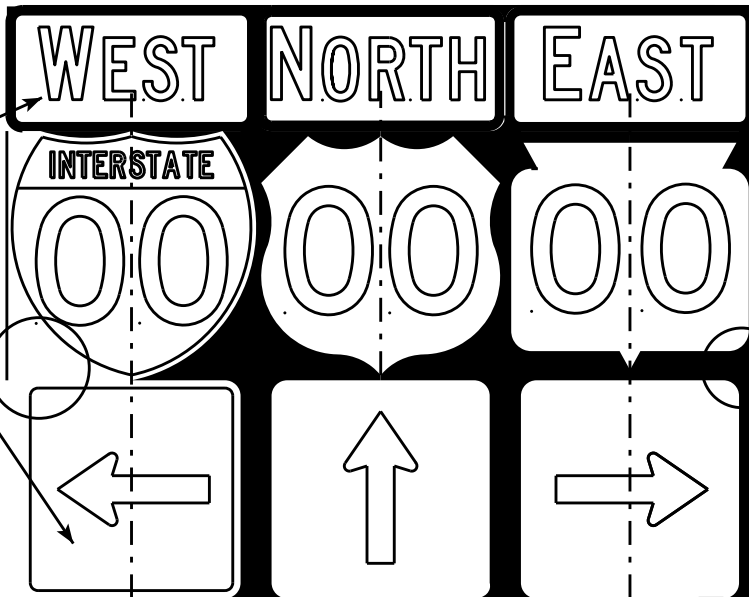
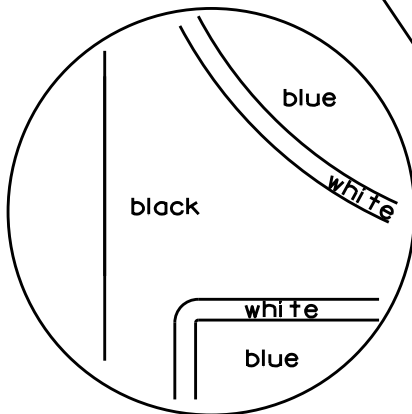
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

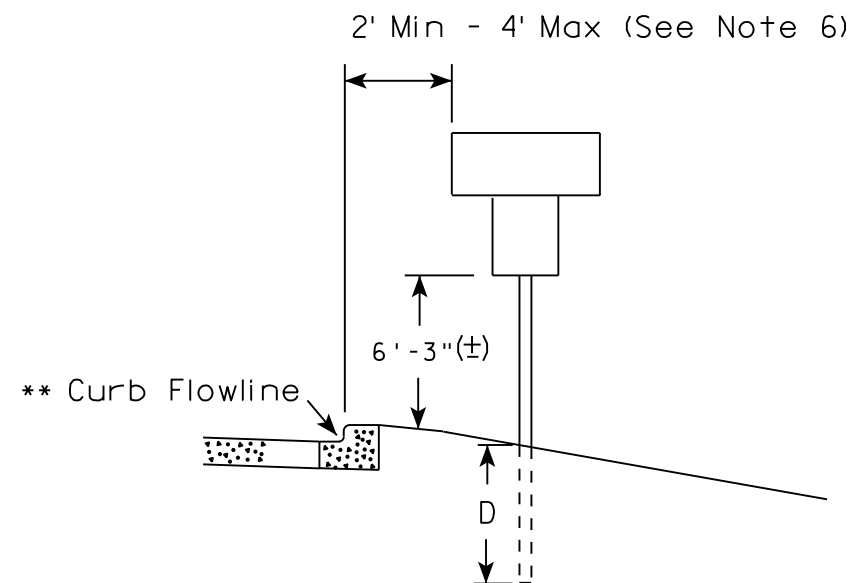
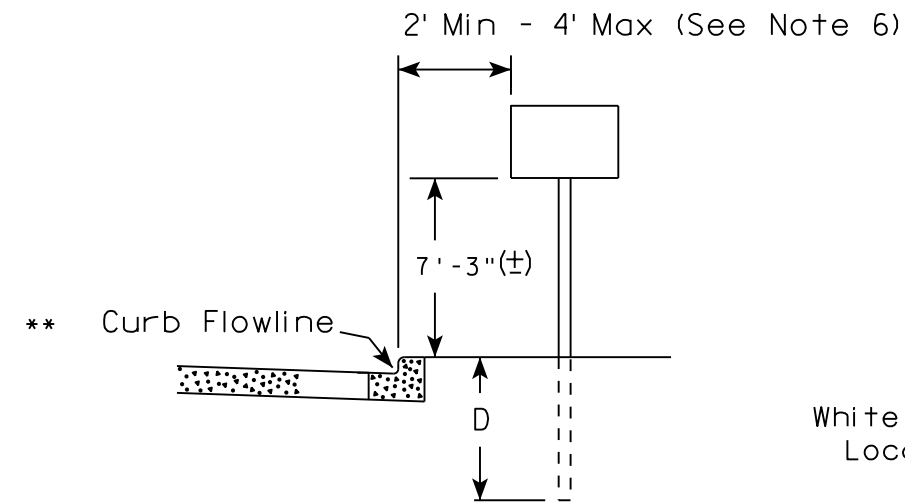
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

NOTES

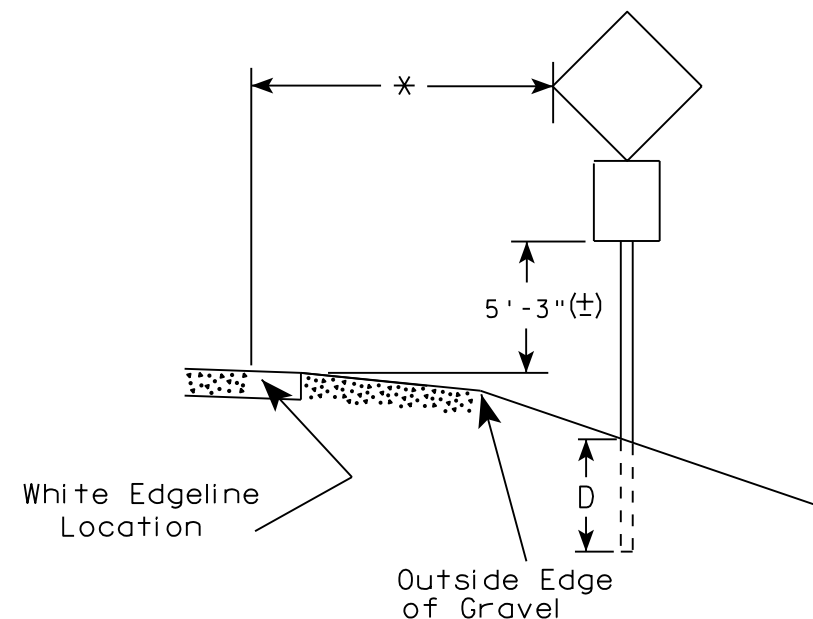
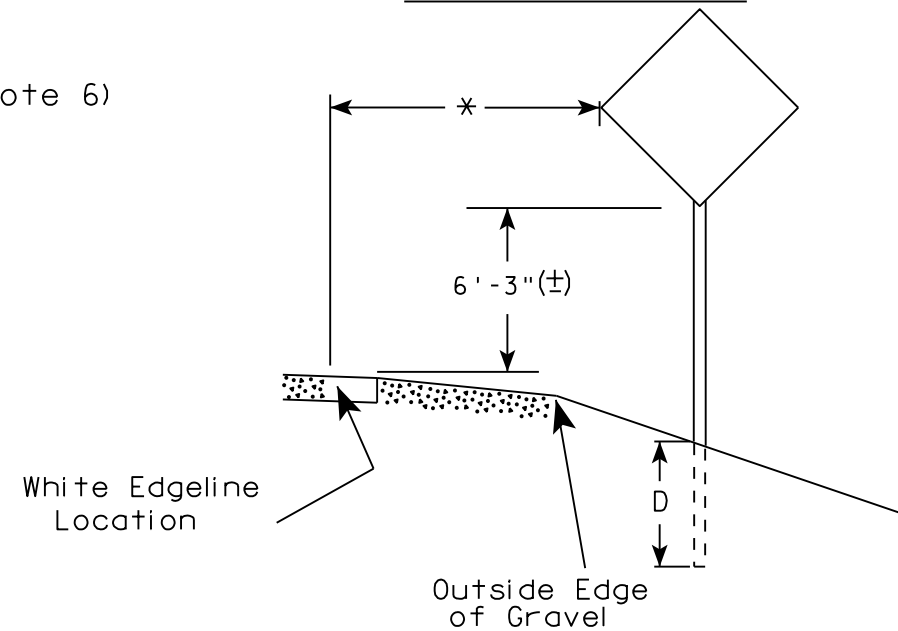
1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. 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.

URBAN AREA



✱✱ 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.

RURAL AREA (See Note 2)



* 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.

POST EMBEDMENT DEPTH

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

GENERAL NOTES

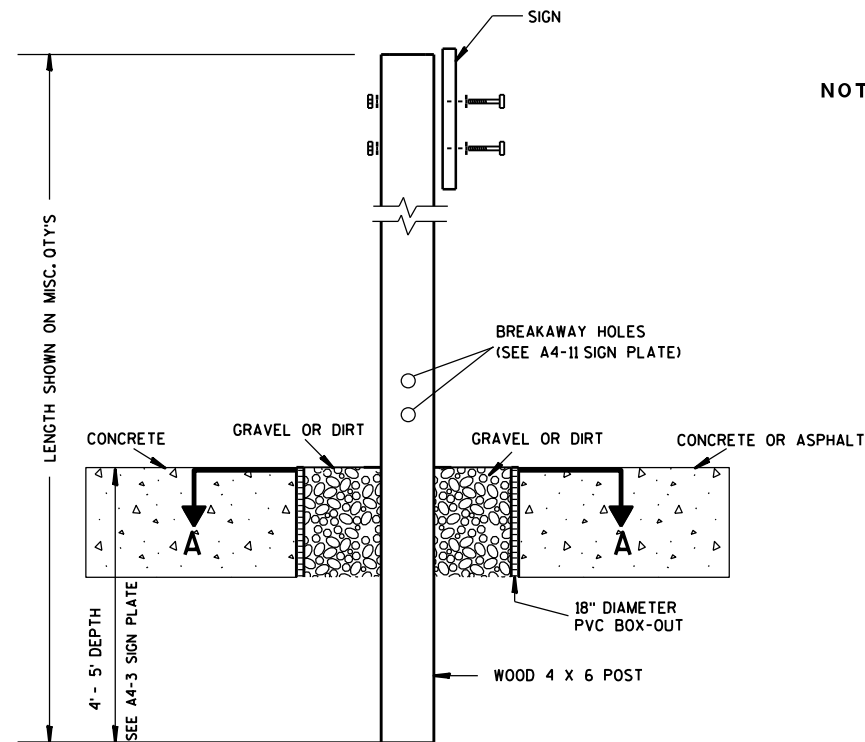
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
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" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

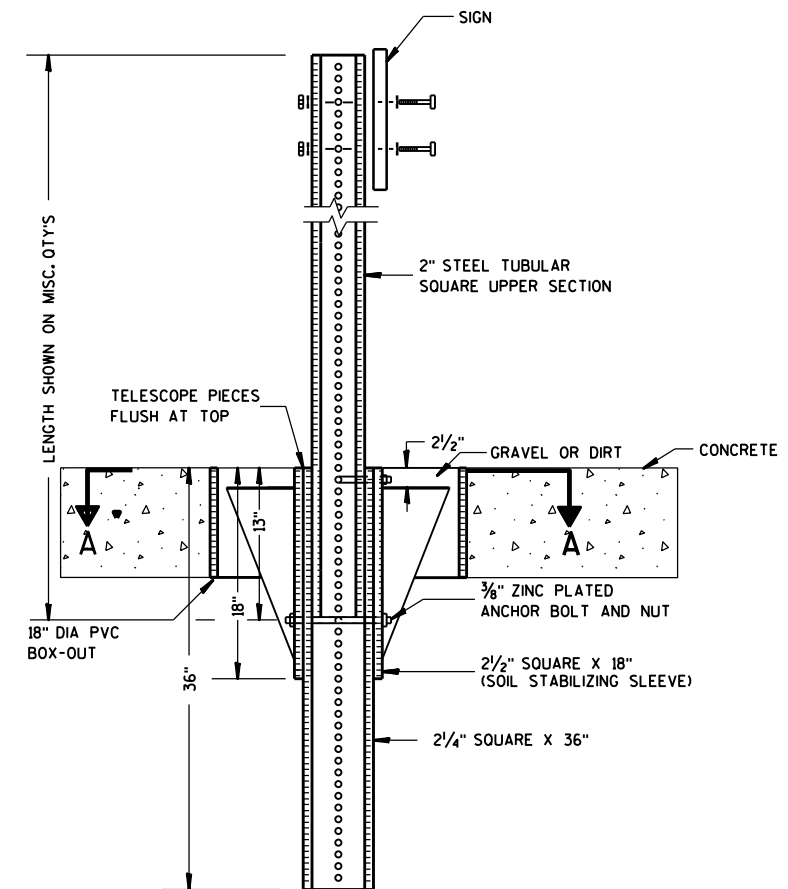
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

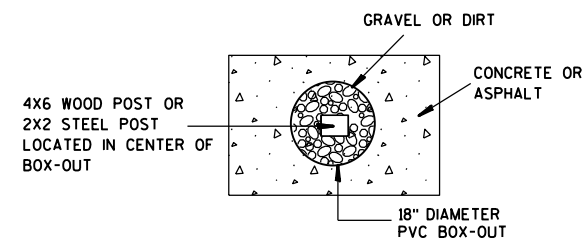
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

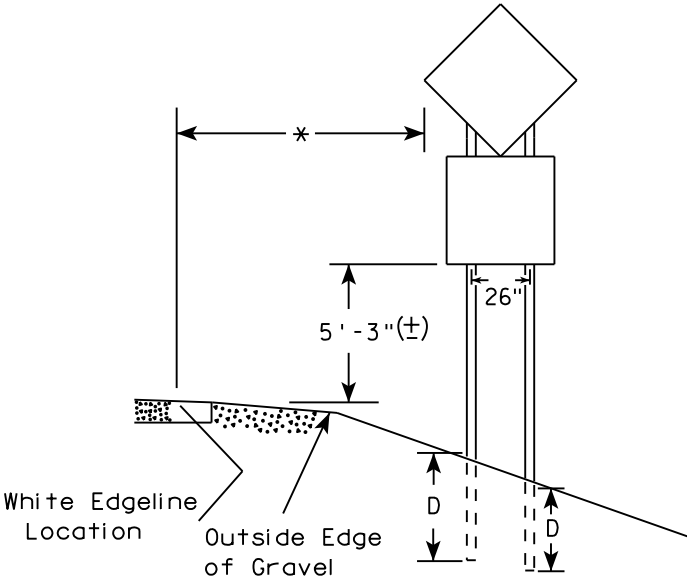
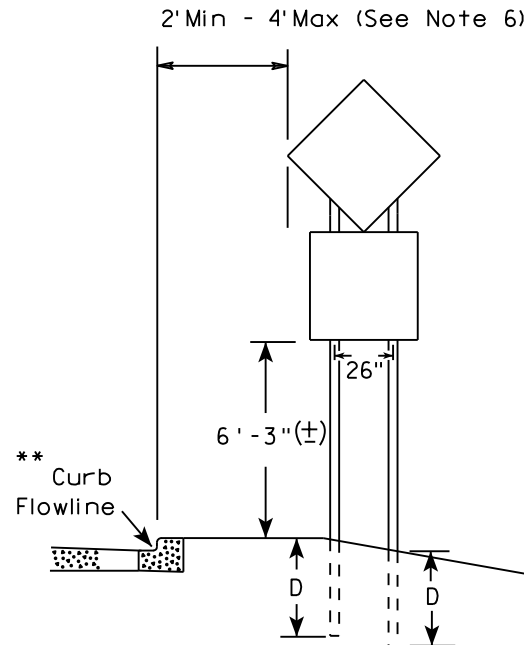
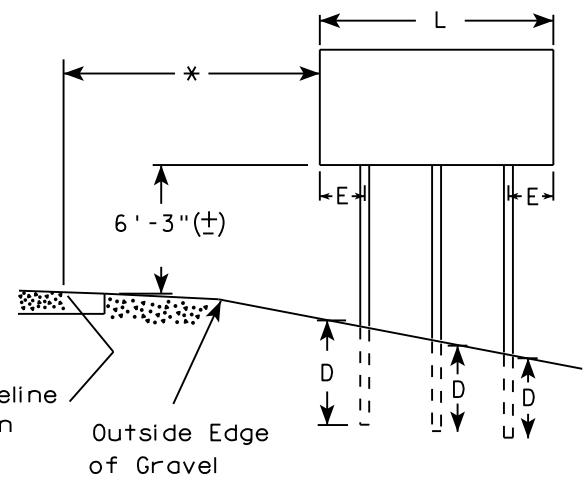
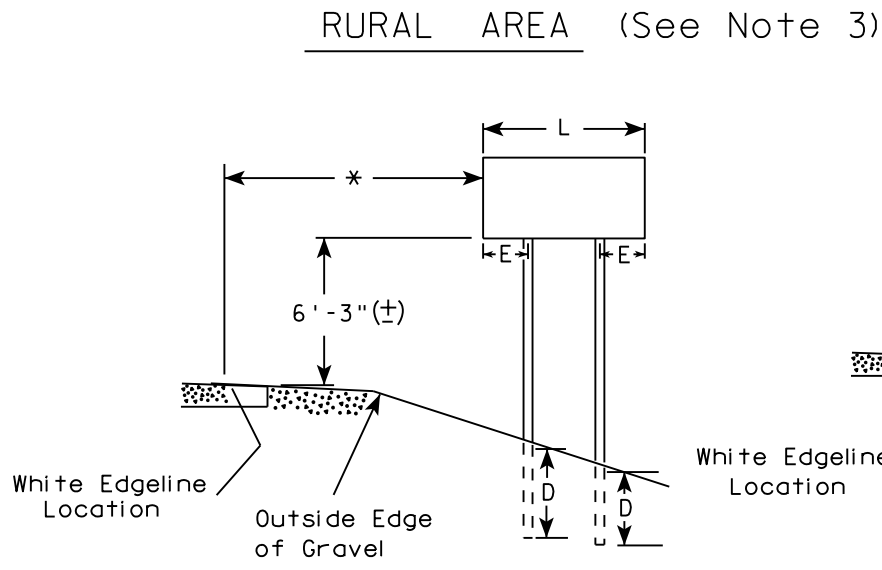
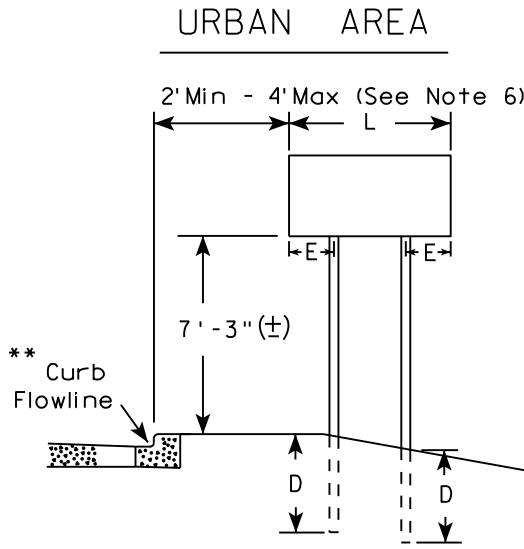
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

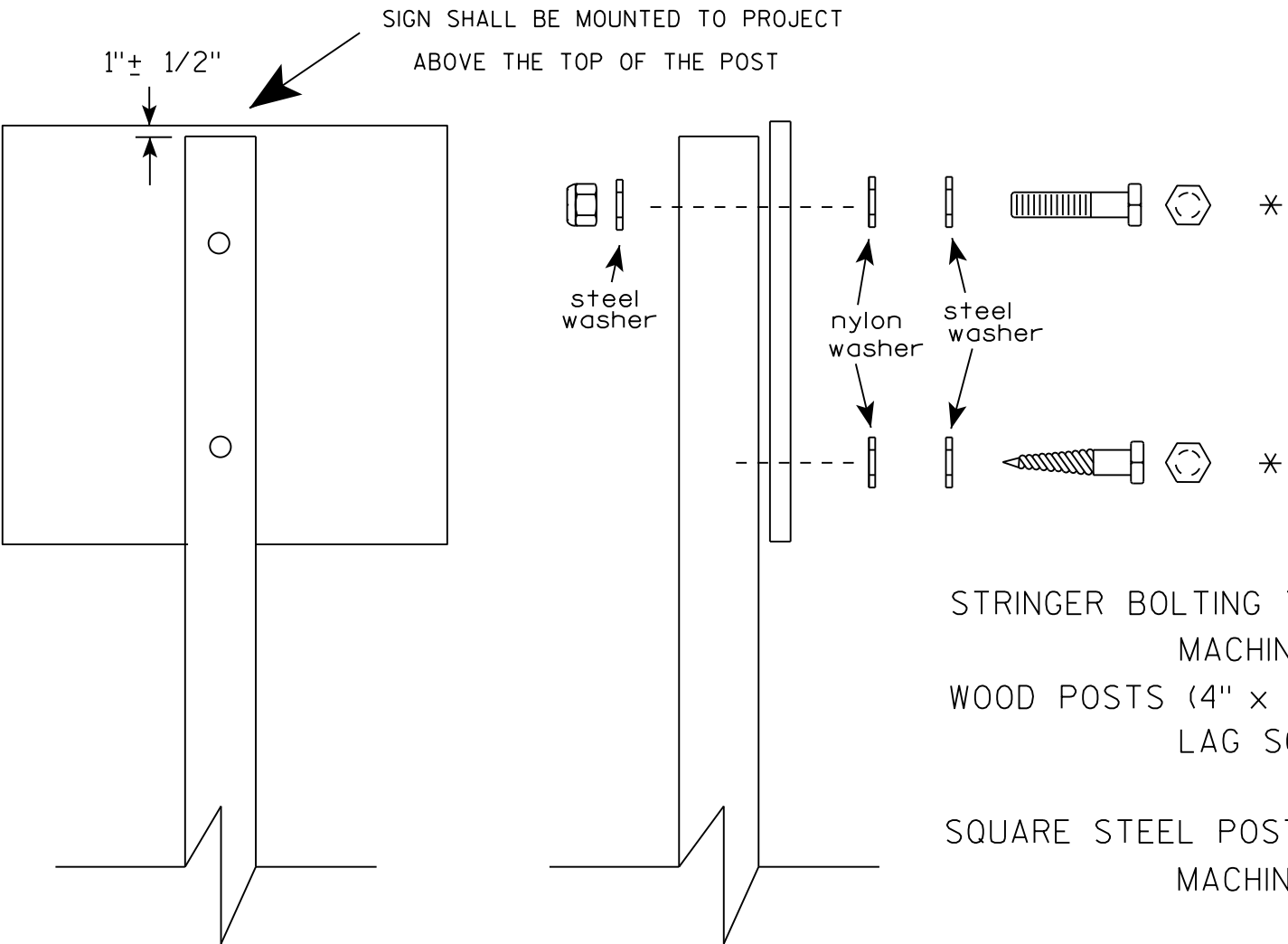
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

- GENERAL NOTES
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. J-Assemblies are considered to be one sign for mounting height.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

- * 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.



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/ lock 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 TO POSTS | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R. Rauch</i> For State Traffic Engineer |
| DATE 8/11/16 | PLATE NO. A4-8.8 |

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

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

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

2 1/2" TELES PAR TUBE

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

4"

2 1/2"

10"

3 1/2"

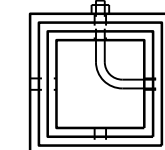
16"

[illegible]

TECHNICAL DRAWING OF A SIGNPOST ASSEMBLY:

- Dimensions:**
 - Overall height: LENGTH SHOWN ON MISC. DTYS
 - Section 1 height: 36"
 - Section 2 height: 18"
 - Section 3 height: 12"
- Components and Labels:**
 - SIGN
 - SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
 - 2" STEEL TUBULAR SQUARE UPPER SECTION
 - ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C
 - ALL FOUR SIDES
 - $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT
 - TELESCOPE PIECES FLUSH AT TOP
 - $\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT
 - 2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
 - 2 1/4" SQUARE X 36"

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:

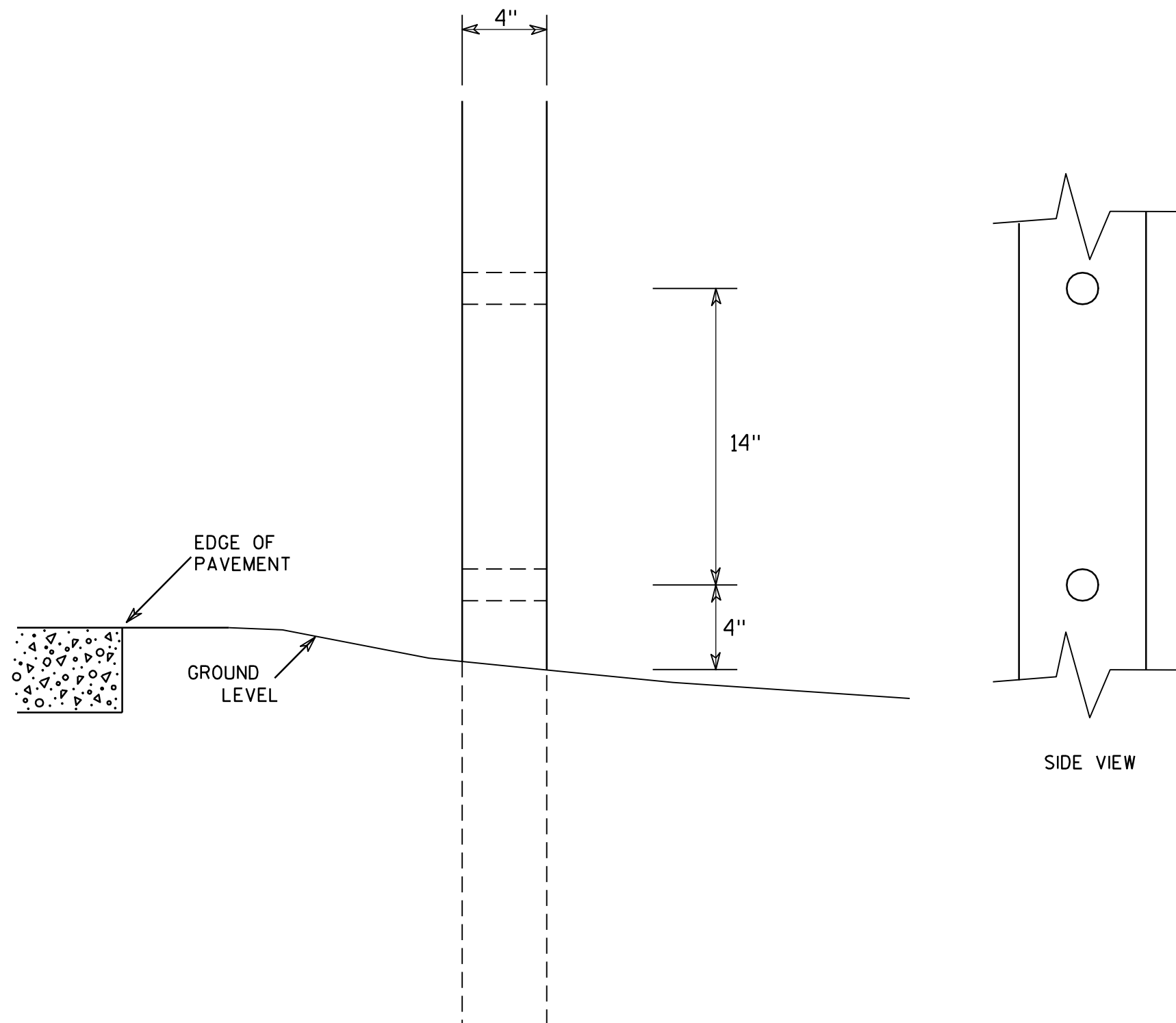
HWY:

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

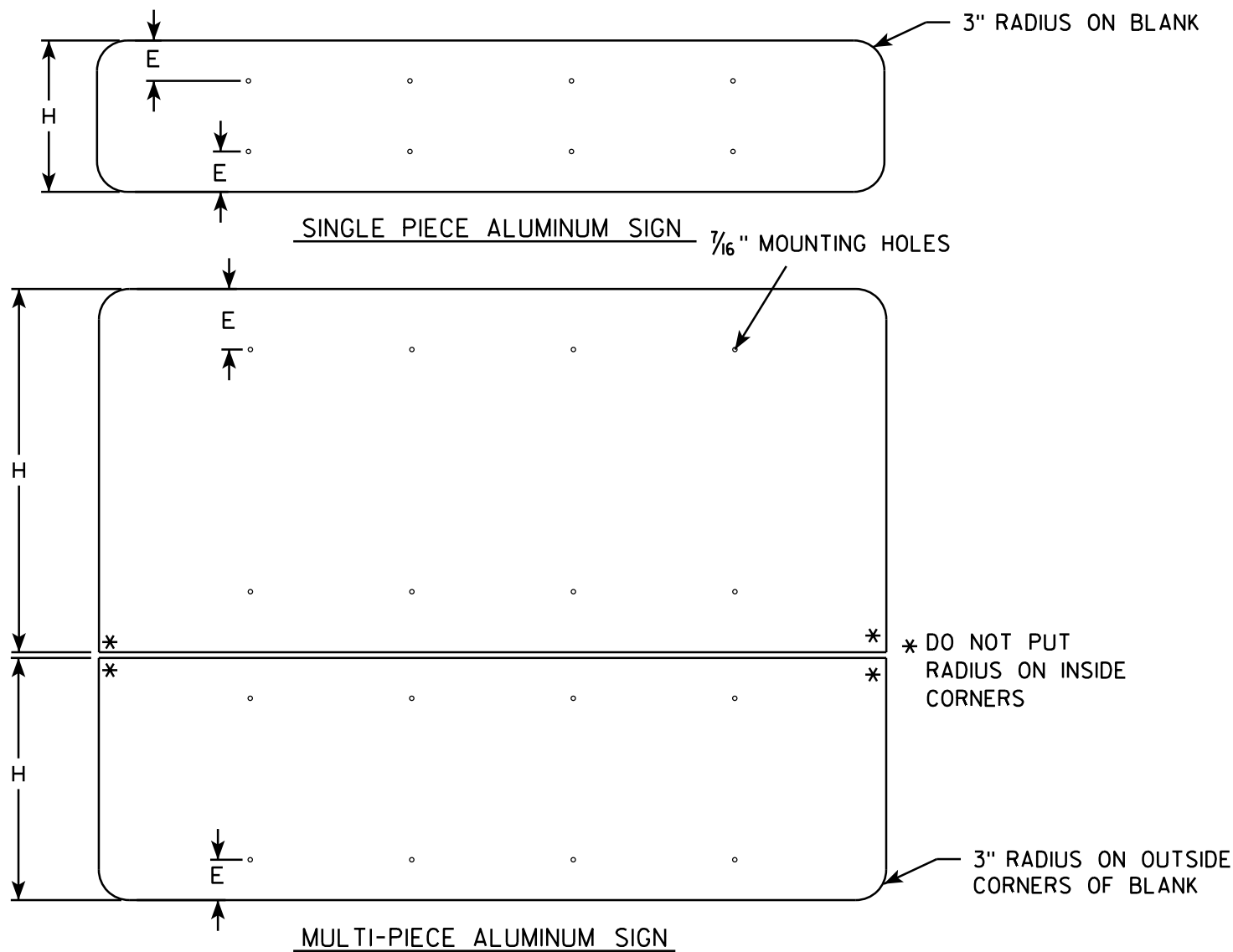
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

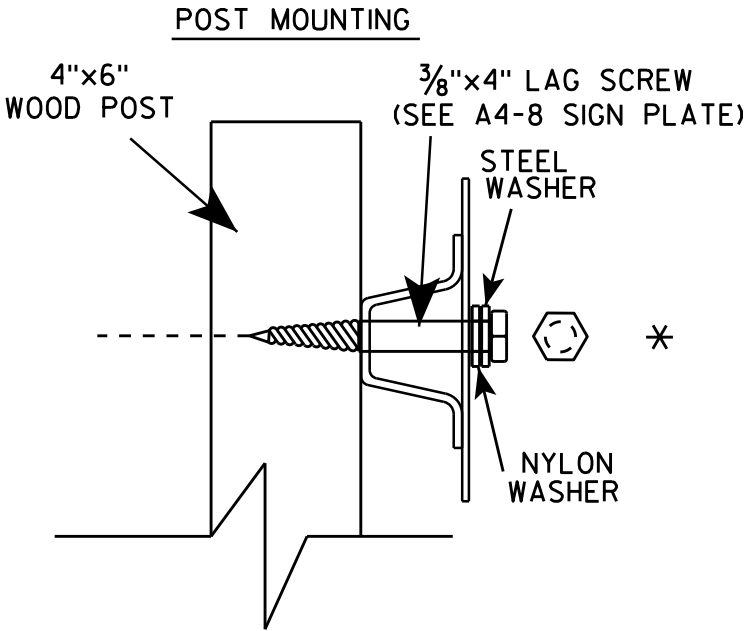
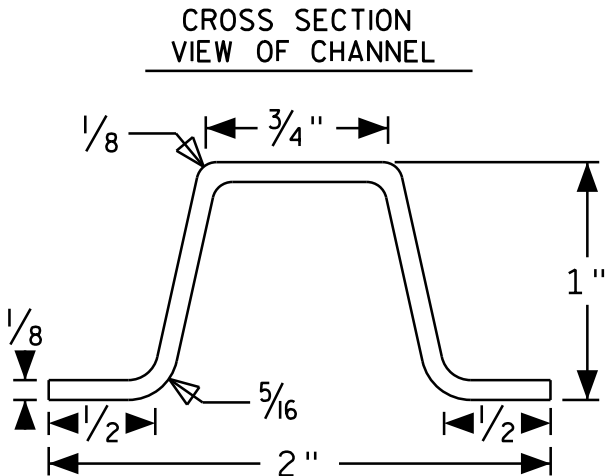
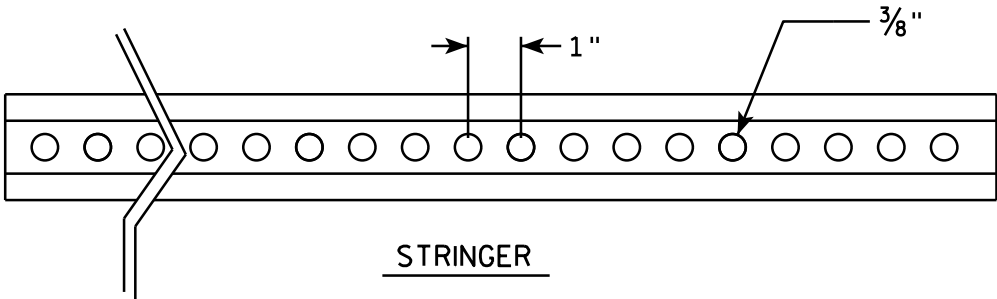
E



GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

| SIGN WIDTH | STRINGER WIDTH | POSTS | HOLE SPACING | MOUNTING HOLES | | | |
|------------|----------------|-------|--------------|----------------|---------|---------|-------------------|
| 78" | 72" | 2 | 16" | 15" | 31" | 47" | 63" |
| 84" | 72" | 2 | 17" | 16 1/2" | 33 1/2" | 50 1/2" | 67 1/2" |
| 90" | 72" | 2 | 18" | 18" | 36" | 54" | 72" |
| 96" | 90" | 2 | 19" | 19 1/2" | 38 1/2" | 57 1/2" | 76 1/2" |
| 102" | 90" | 2 | 20" | 21" | 41" | 61" | 81" |
| 108" | 90" | 2 | 21" | 22 1/2" | 43 1/2" | 64 1/2" | 85 1/2" |
| 114" | 108" | 3 | 15" | 12" | 27" | 42" | 57" 72" 87" 102" |
| 120" | 108" | 3 | 16" | 12" | 28" | 44" | 60" 76" 92" 108" |
| 126" | 108" | 3 | 17" | 12" | 29" | 46" | 63" 80" 97" 114" |
| 132" | 126" | 3 | 18" | 12" | 30" | 48" | 66" 84" 102" 120" |
| 138" | 126" | 3 | 19" | 12" | 31" | 50" | 69" 88" 107" 126" |
| 144" | 126" | 3 | 20" | 12" | 32" | 52" | 72" 92" 112" 132" |



SIGN STRINGER
MOUNTING REQUIREMENTS

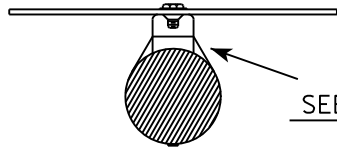
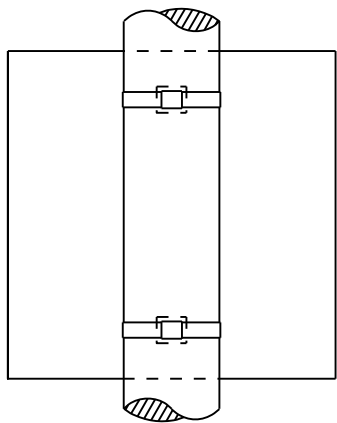
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/26/16 PLATE NO. A4-18.1

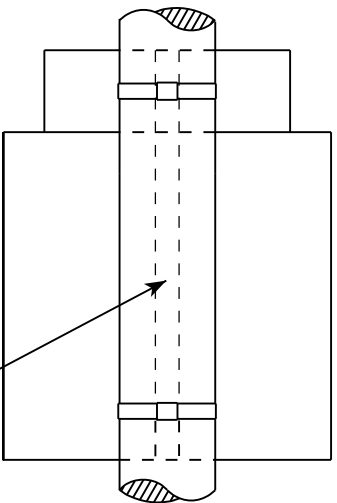
BANDING

SINGLE SIGN

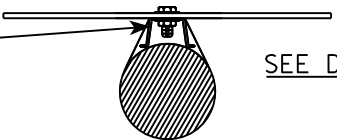


SEE DETAIL A

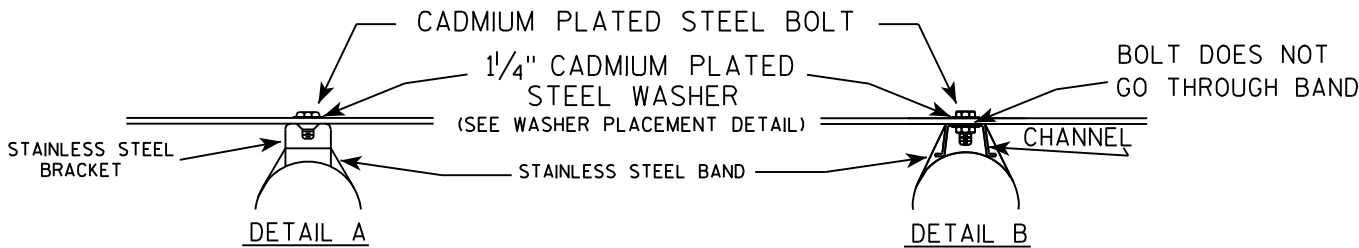
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



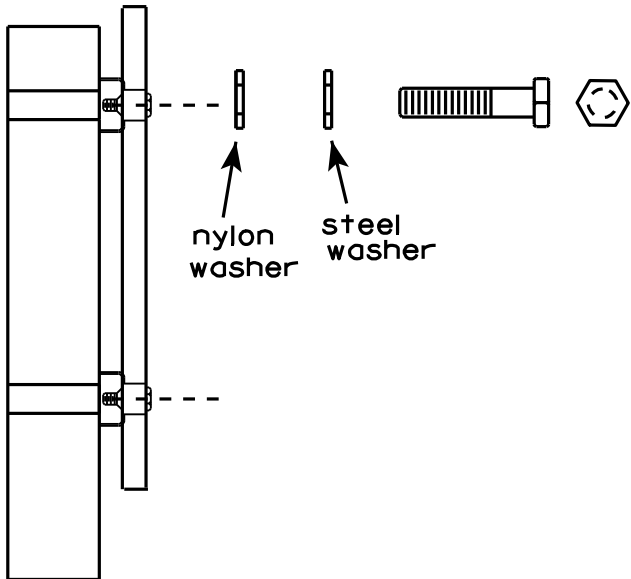
SEE DETAIL B



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 $\frac{3}{4}$ " in width and 0.025" thickness.

WASHER PLACEMENT



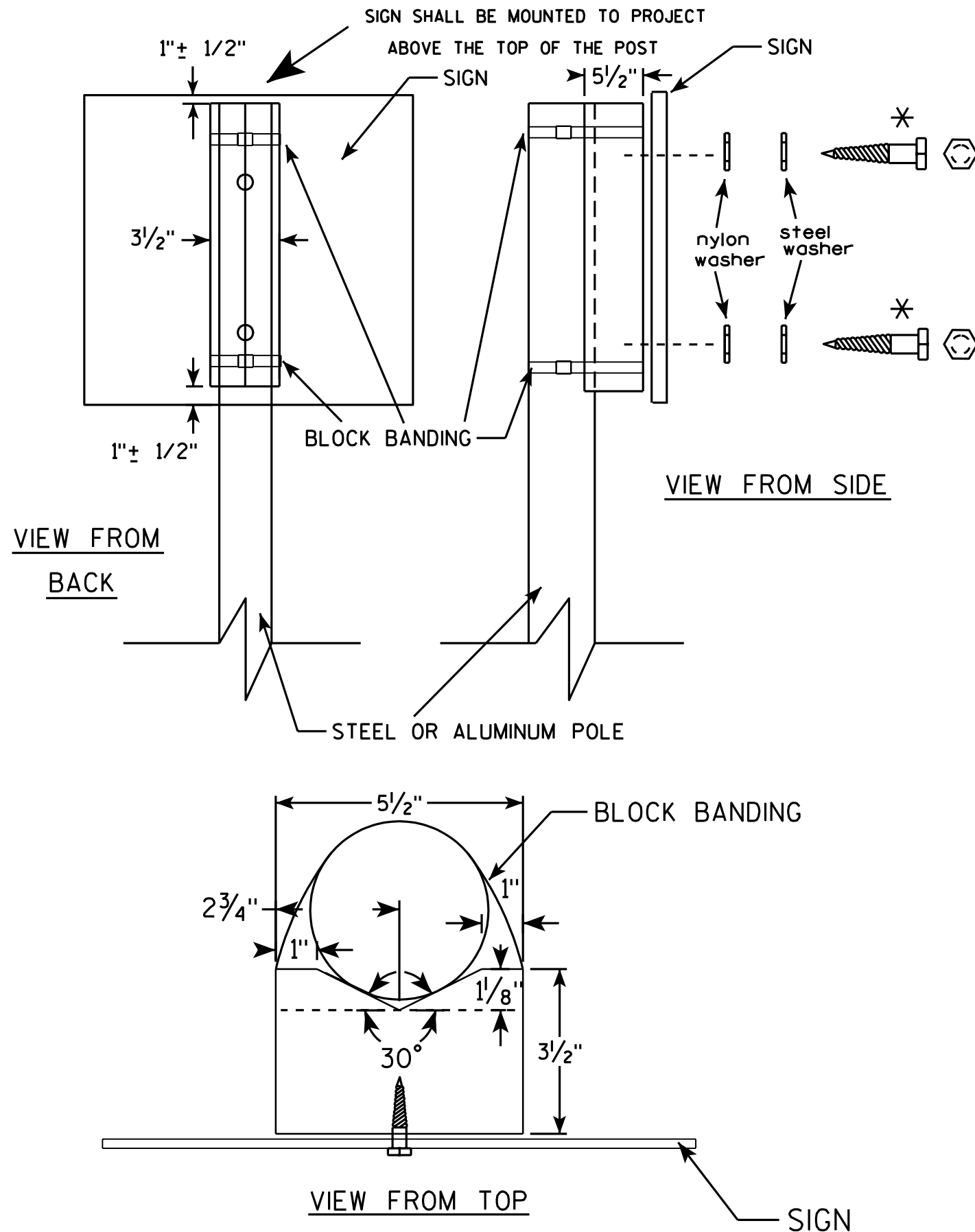
WASHERS (ALL POSTS) -
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

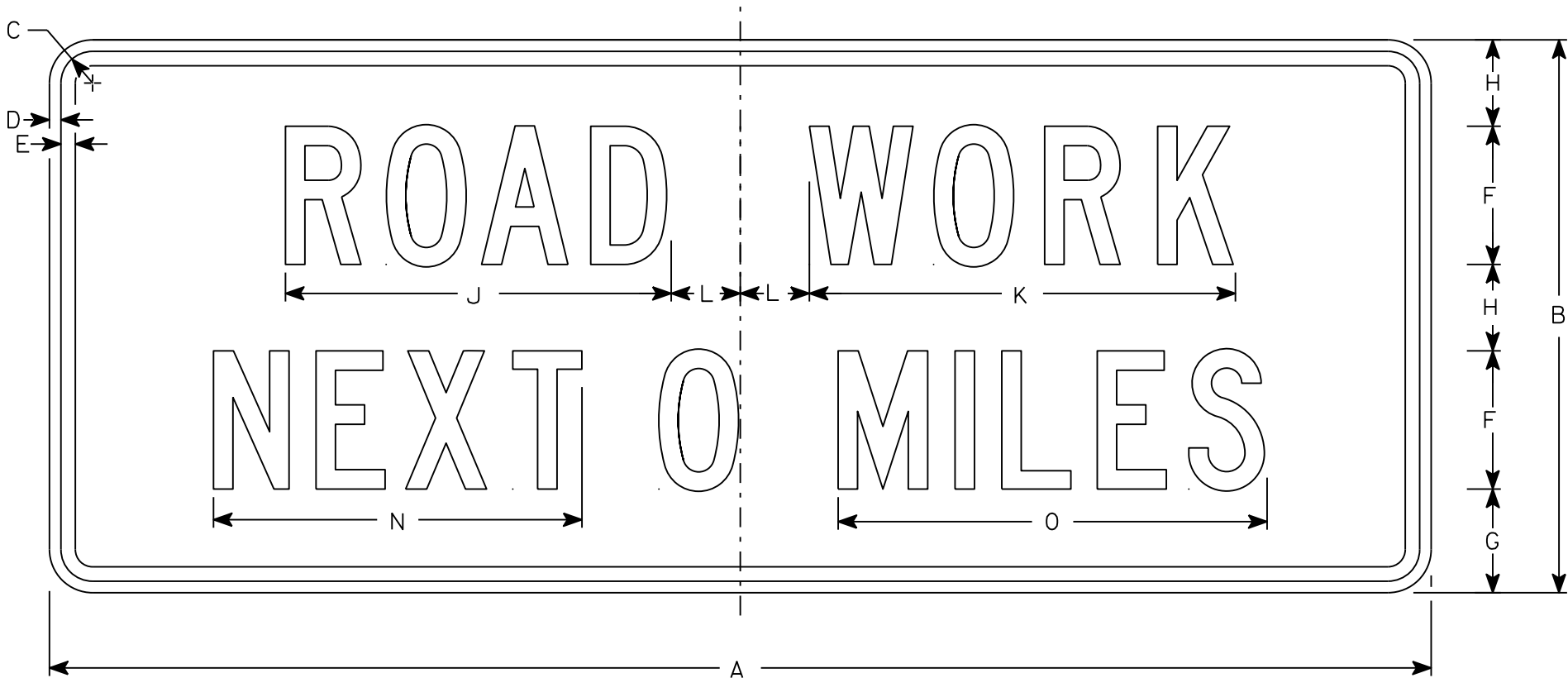
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

PROJECT NO:

SHEET NO:

E



G20-1

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.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

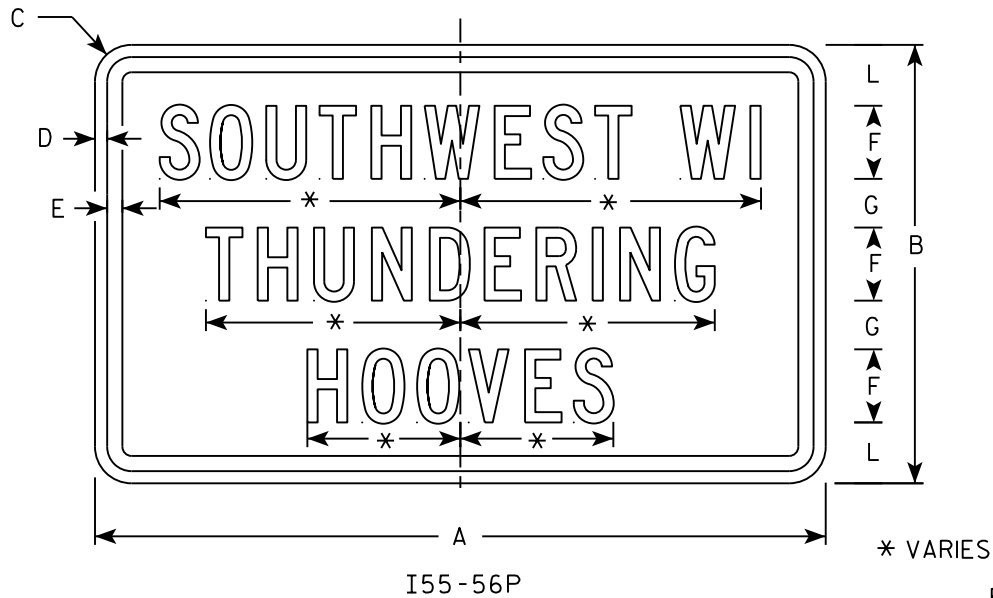
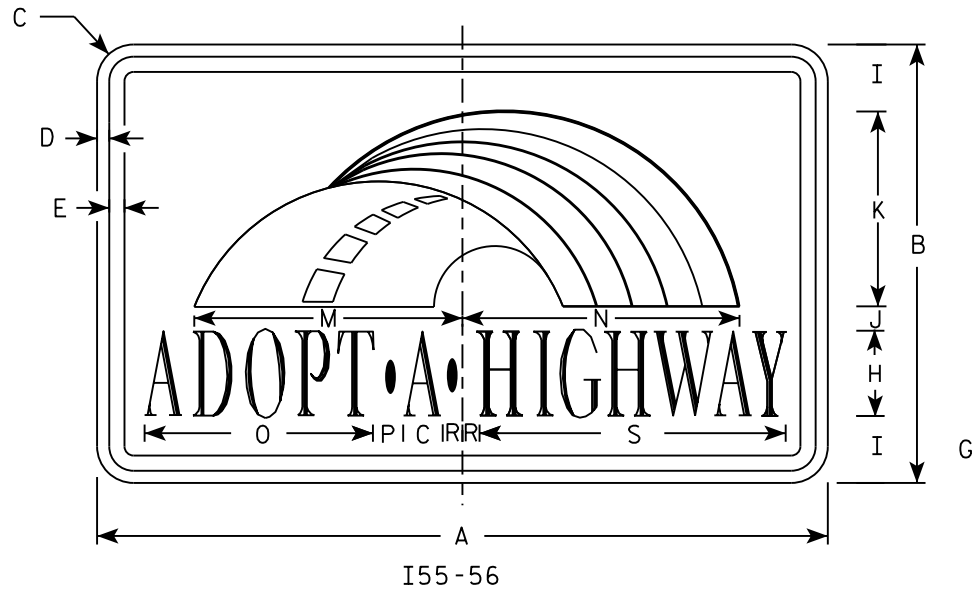
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|---|-------|-------|---|--------|--------|---|---|----|--------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 60 | 24 | 1 3⁄8 | 1⁄2 | 5⁄8 | 6 | 4 1⁄2 | 3 3⁄4 | | 16 3⁄4 | 18 1⁄2 | 3 | | 16 | 18 5⁄8 | | | | | | | | | | | | 10 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 60 | 24 | 1 3⁄8 | 1⁄2 | 5⁄8 | 6 | 4 1⁄2 | 3 3⁄4 | | 16 3⁄4 | 18 1⁄2 | 3 | | 16 | 18 5⁄8 | | | | | | | | | | | | 10 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STANDARD SIGN
G20-1

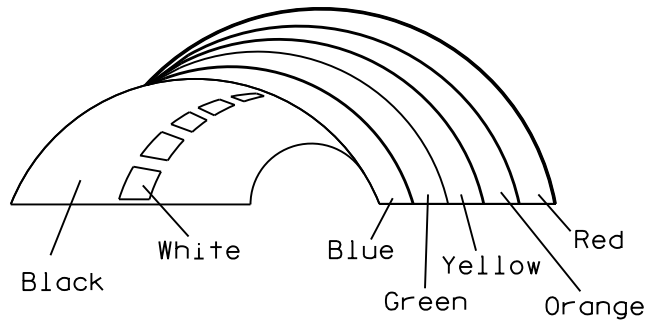
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8



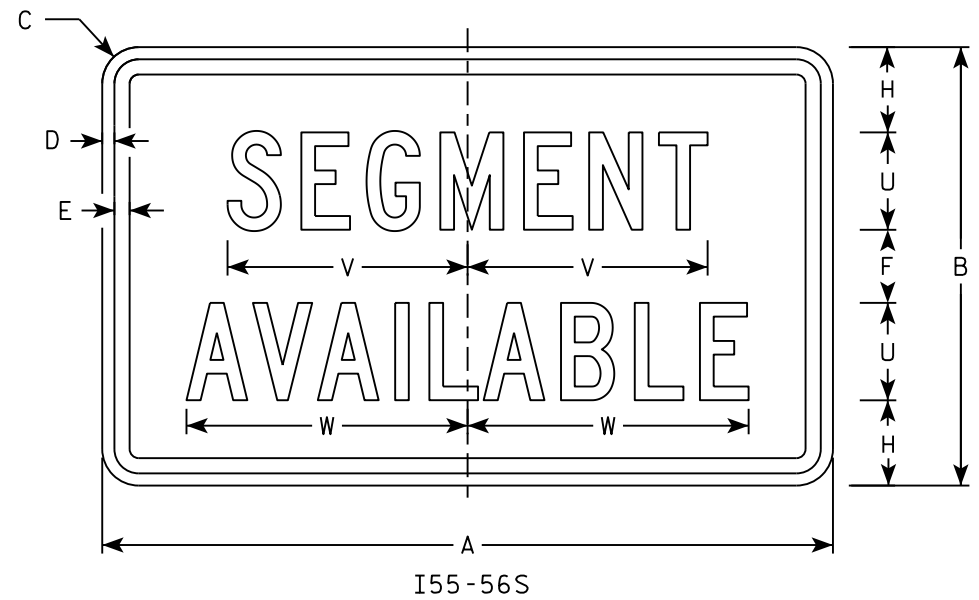
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
Adopt a Highway - Red
All other Text - Blue
5. Adopt a Highway - Dutch 8011L
All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.



| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | v | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|---|---|-------|-------|---|---|-------|--------|--------|-------|-------|---|-----|--------|-------|---|-------|--------|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 30 | 18 | 1 1/2 | 1/2 | 5/8 | 3 | 2 | 3 1/2 | 2 3/4 | 1 | 8 | 2 1/2 | 11 1/4 | 11 1/8 | 9 3/8 | 1 1/4 | | 3/4 | 12 5/8 | 7 1/2 | 4 | 9 7/8 | 11 1/2 | | | | 3.75 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

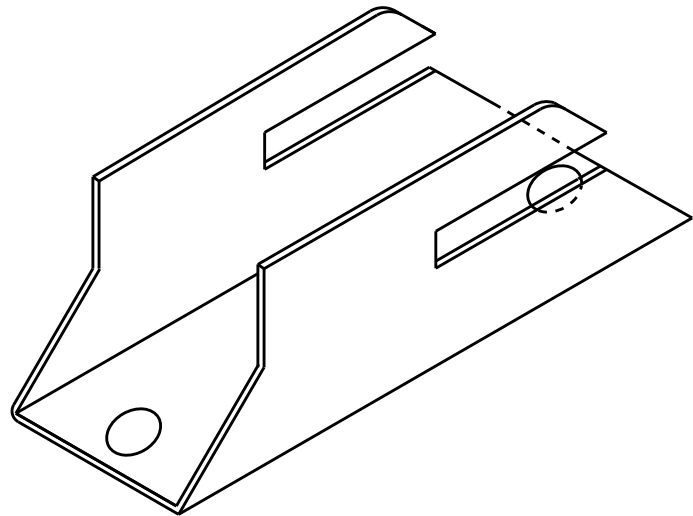
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

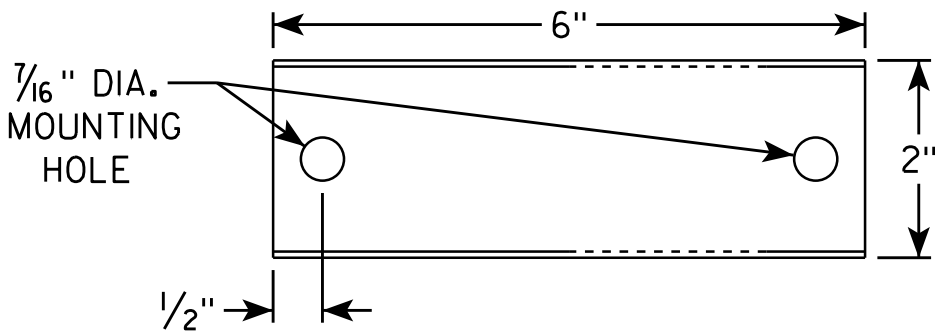
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/20/18 PLATE NO. I55-56.4

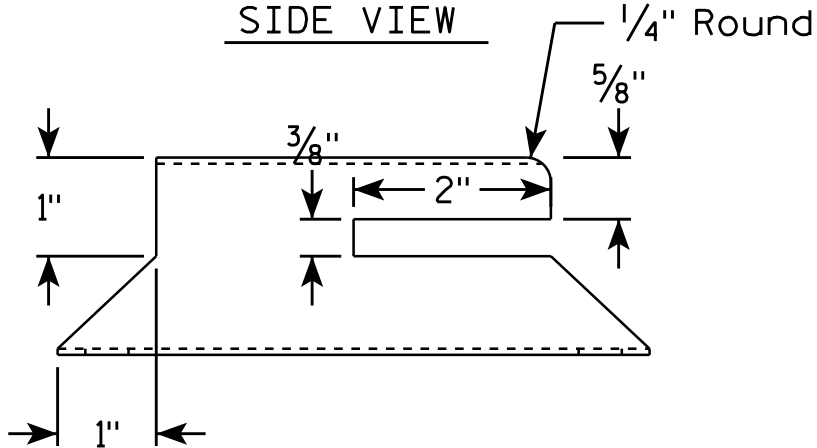
ISOMETRIC VIEW



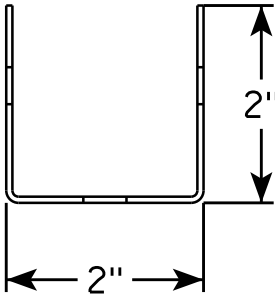
TOP VIEW



SIDE VIEW



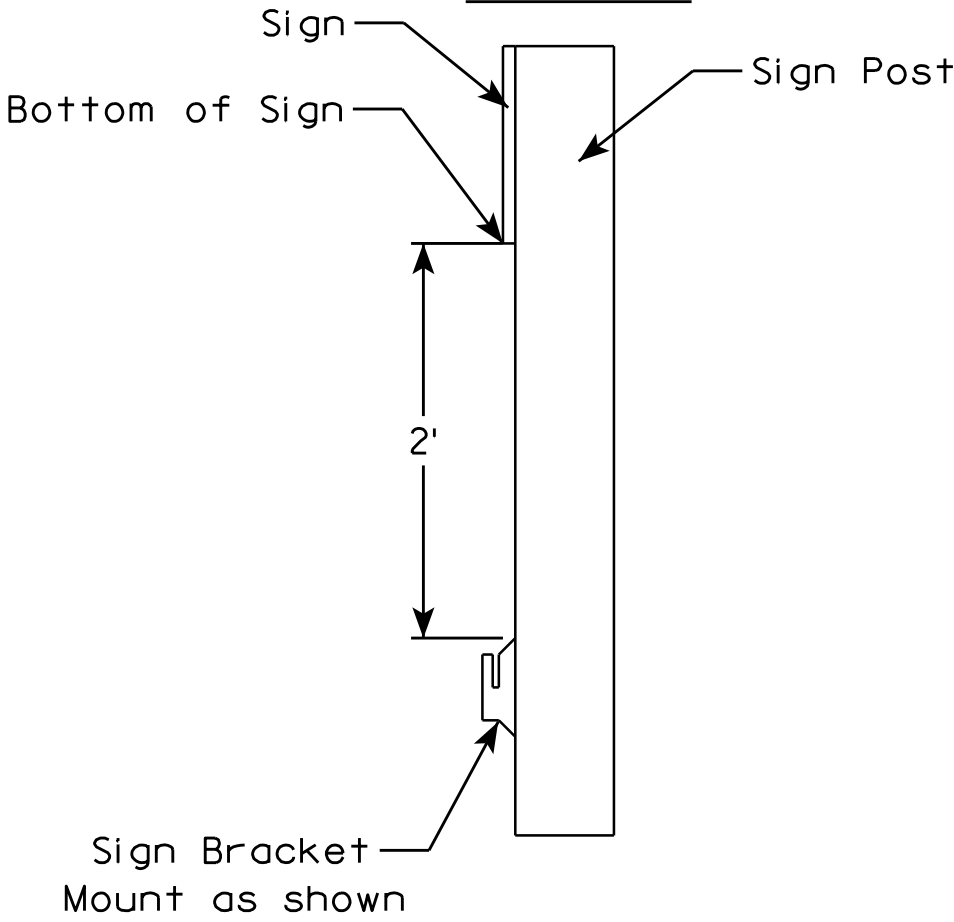
END VIEW



NOTES

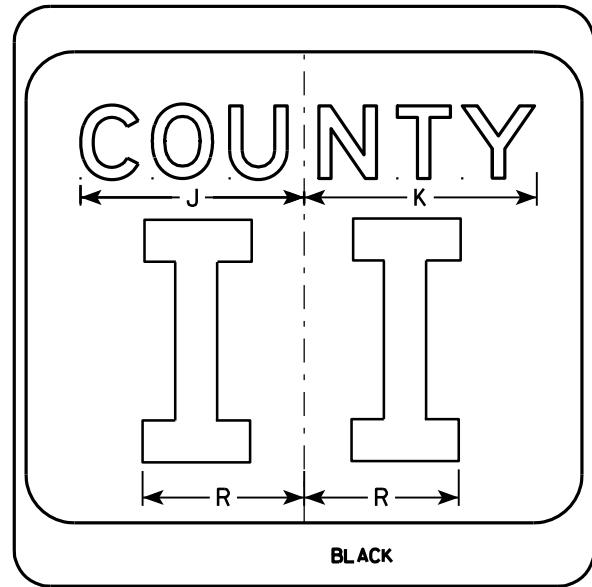
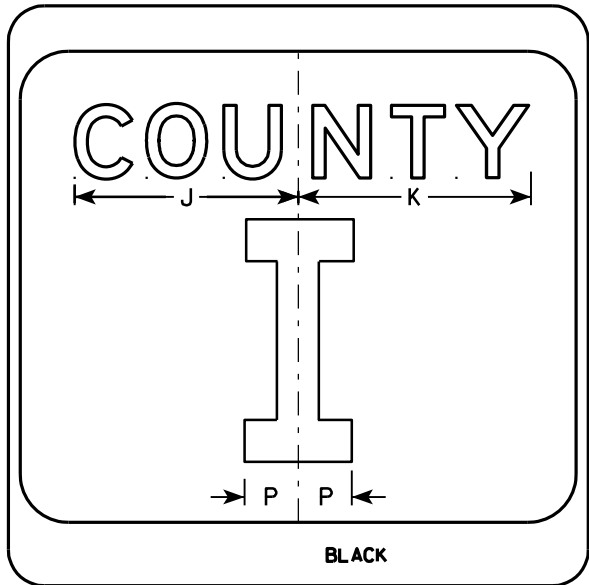
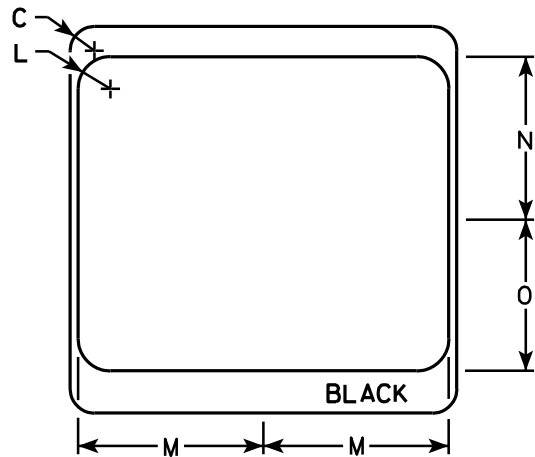
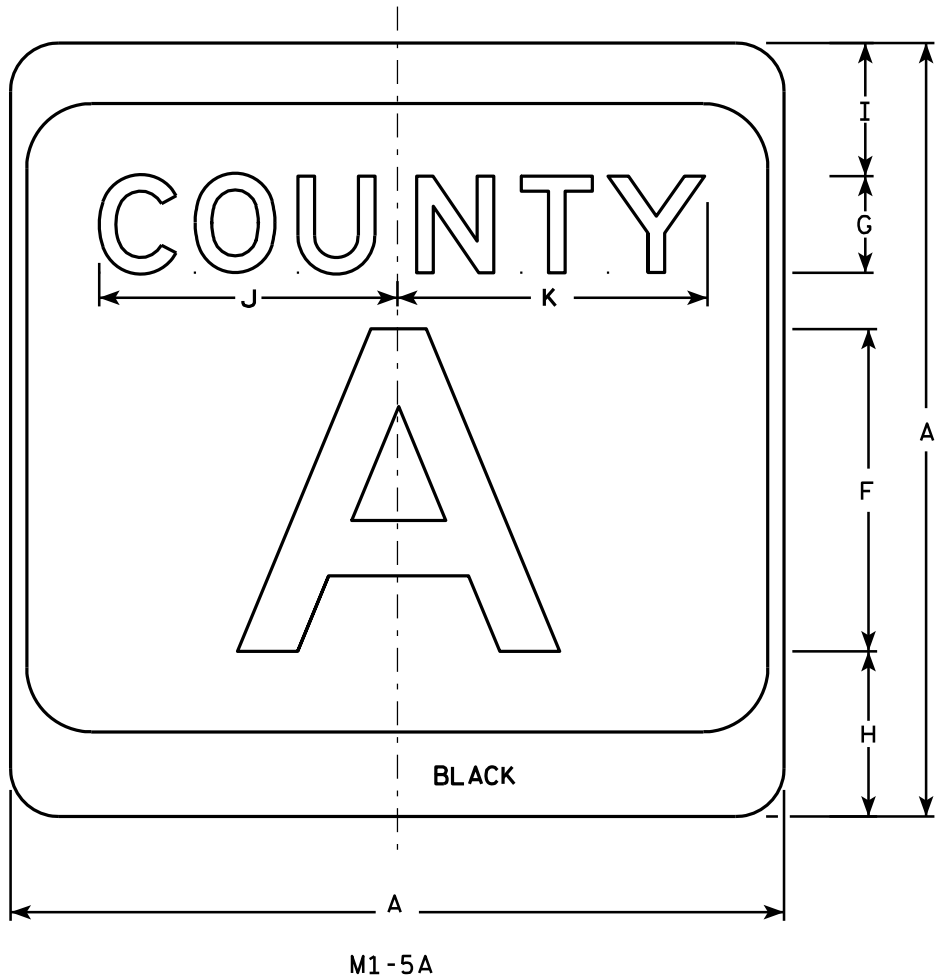
1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



| | |
|----------------------------------|---|
| ROLLUP SIGN BRACKET I55-56B | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R. Rauch</i> for State Traffic Engineer |
| DATE 4/26/16 | PLATE NO. I55-56B.2 |

7



NOTES

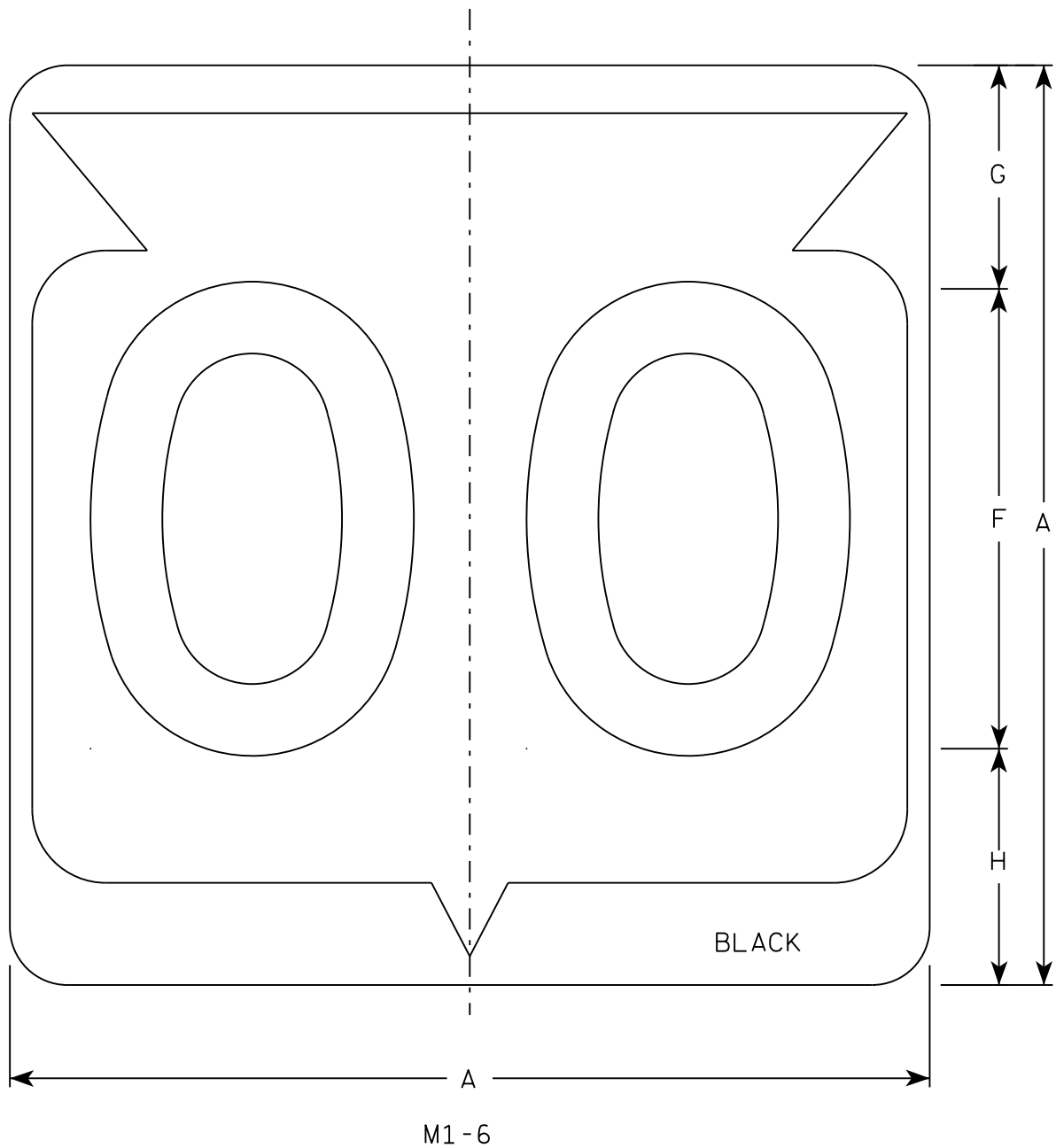
1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 7
Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|---|---|----|---|-------|-------|--------|--------|---|--------|--------|-------|-------|---|-------|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 24 | | 1 1/2 | | | 10 | 3 | 5 1/8 | 4 1/8 | 9 1/4 | 9 5/8 | 2 | 11 1/2 | 10 1/8 | 9 3/8 | 2 1/4 | | 6 5/8 | | | | | | | | | 4.0 |
| 3 | 36 | | 2 1/4 | | | 16 | 4 | 7 5/8 | 5 5/8 | 12 1/4 | 12 7/8 | 3 | 17 1/8 | 15 1/4 | 14 | 3 3/8 | | 10 | | | | | | | | | 9.0 |
| 4 | 36 | | 2 1/4 | | | 16 | 4 | 7 5/8 | 5 5/8 | 12 1/4 | 12 7/8 | 3 | 17 1/8 | 15 1/4 | 14 | 3 3/8 | | 10 | | | | | | | | | 9.0 |
| 5 | 36 | | 2 1/4 | | | 16 | 4 | 7 5/8 | 5 5/8 | 12 1/4 | 12 7/8 | 3 | 17 1/8 | 15 1/4 | 14 | 3 3/8 | | 10 | | | | | | | | | 9.0 |

| | |
|----------------------------------|---|
| CTH MARKER | |
| M1-5A FOR ASSEMBLIES | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R. Rauch</i> For State Traffic Engineer |
| DATE 9/27/11 | PLATE NO. M1-5A.8 |

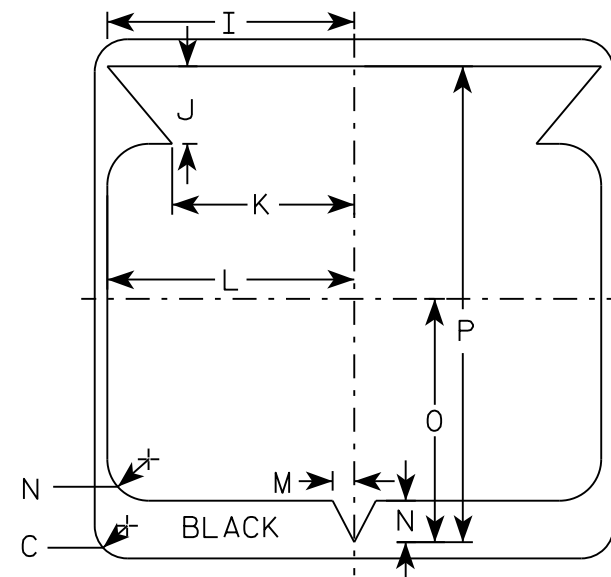
| | | | | |
|-------------|------|---------|-----------|---|
| PROJECT NO: | HWY: | COUNTY: | SHEET NO: | E |
|-------------|------|---------|-----------|---|

7



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|---|---|----|-------|-------|--------|-------|--------|--------|-------|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 24 | | 1 1/2 | | | 12 | 5 1/2 | 6 1/2 | 10 1/4 | 2 1/2 | 8 7/8 | 11 1/2 | 1 | 1 7/8 | 11 1/4 | 21 7/8 | | | | | | | | | | | 4.0 |
| 3 | 36 | | 2 1/4 | | | 18 | 8 3/4 | 9 1/4 | 15 3/8 | 5 3/8 | 12 5/8 | 17 1/8 | 1 1/2 | 2 7/8 | 16 7/8 | 33 | | | | | | | | | | | 9.0 |
| 4 | 36 | | 2 1/4 | | | 18 | 8 3/4 | 9 1/4 | 15 3/8 | 5 3/8 | 12 5/8 | 17 1/8 | 1 1/2 | 2 7/8 | 16 7/8 | 33 | | | | | | | | | | | 9.0 |
| 5 | 36 | | 2 1/4 | | | 18 | 8 3/4 | 9 1/4 | 15 3/8 | 5 3/8 | 12 5/8 | 17 1/8 | 1 1/2 | 2 7/8 | 16 7/8 | 33 | | | | | | | | | | | 9.0 |

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

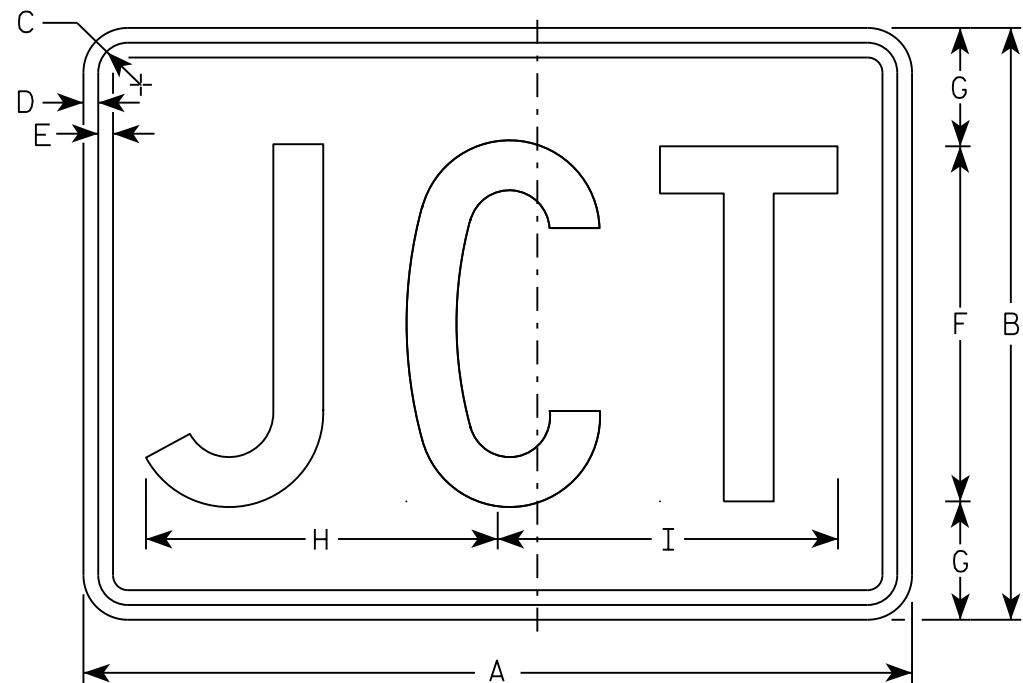
PROJECT NO:

HWY:

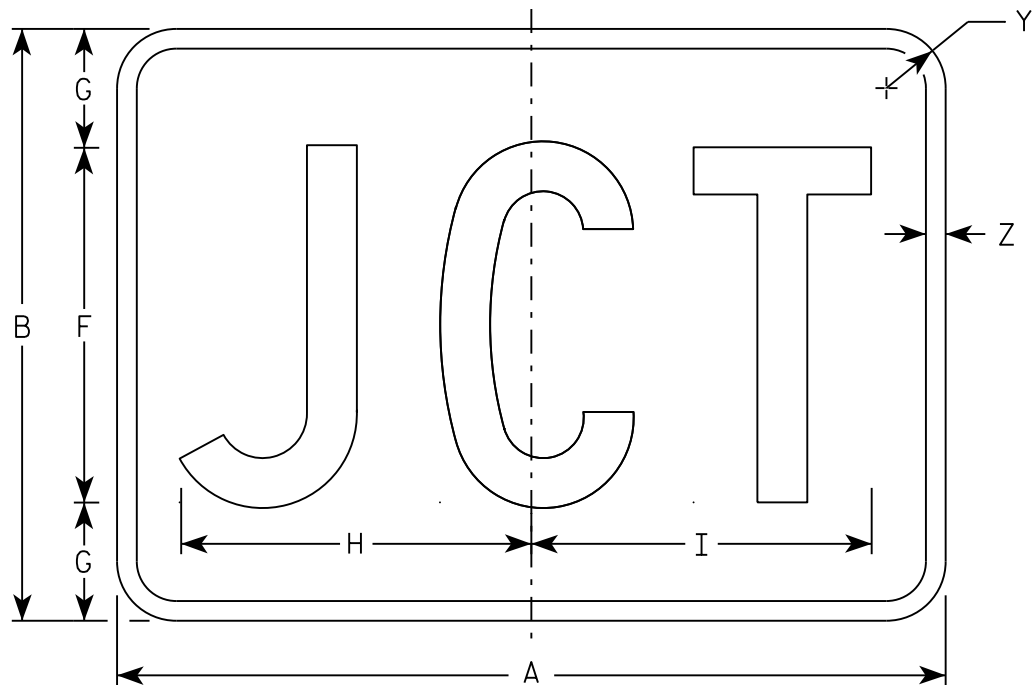
COUNTY:

SHEET NO:

E



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 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

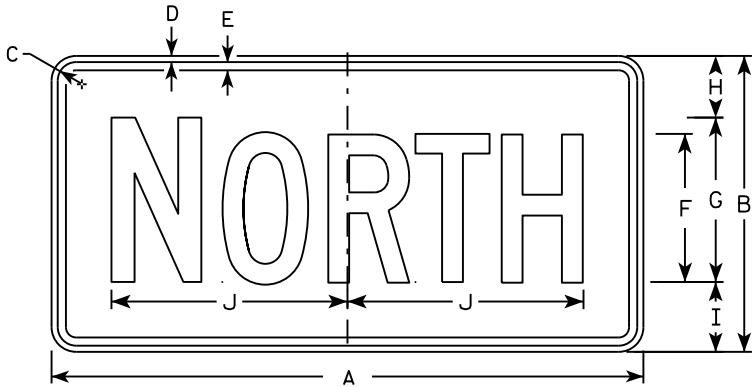
APPROVED

Matthew R. Rauch

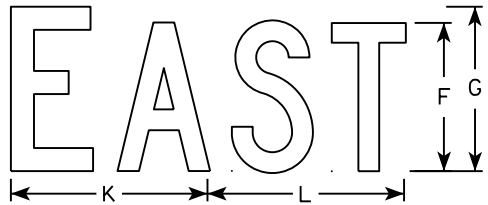
For State Traffic Engineer

DATE 10/15/15

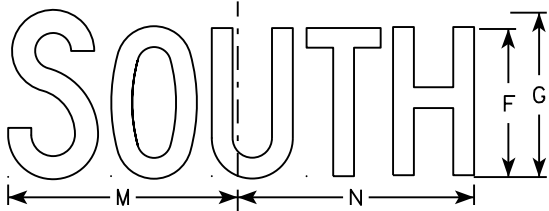
PLATE NO. M2-1.12



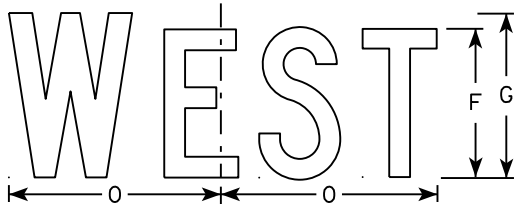
M3-1
MM3-1
MP3-1



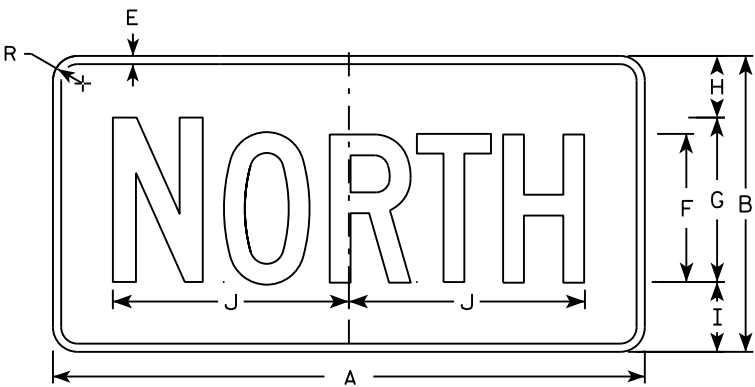
M3-2
MM3-2
MP3-2



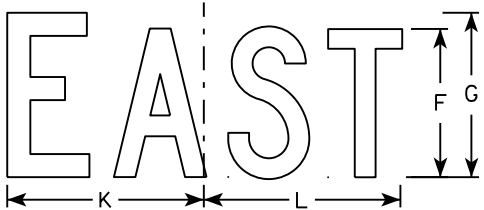
M3-3
MM3-3
MP3-3



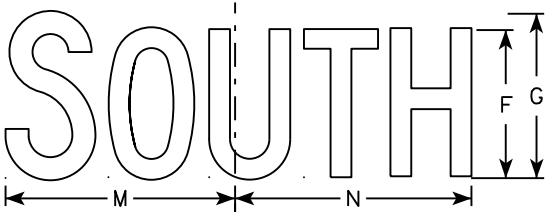
M3-4
MM3-4
MP3-4



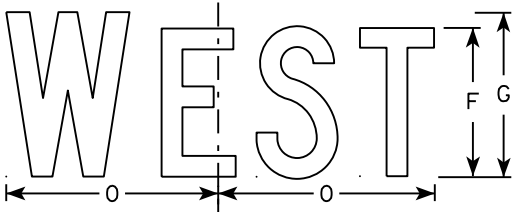
MB3-1
MK3-1
MN3-1



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.

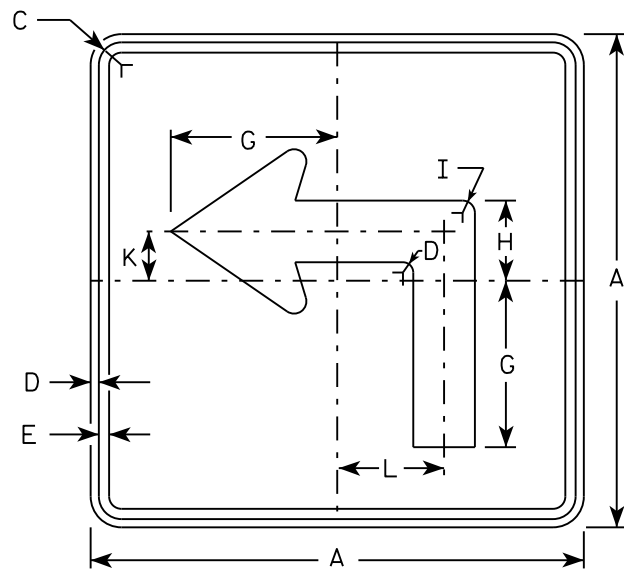
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|---|----|-------|-------|--------|-------|--------|--------|--------|-------|---|---|-------|---|---|---|---|---|---|---|---|-----------------|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

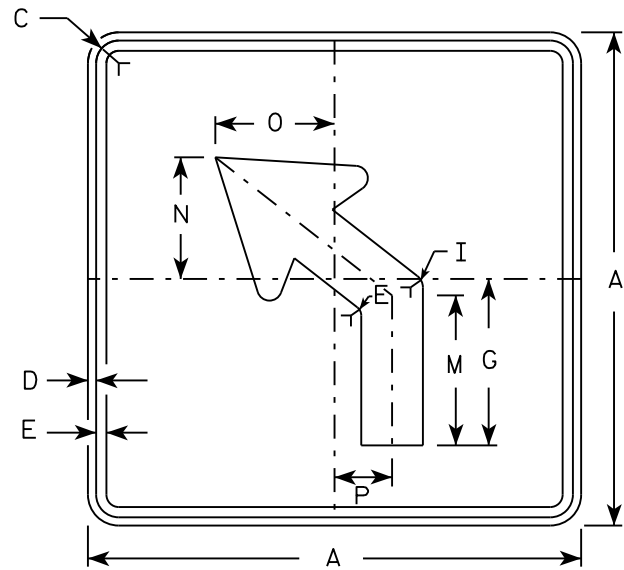
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

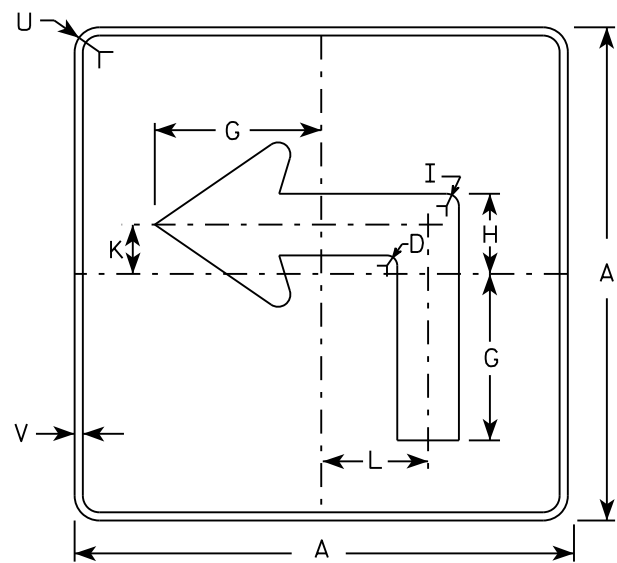
DATE 10/15/15 PLATE NO. M3-1.14



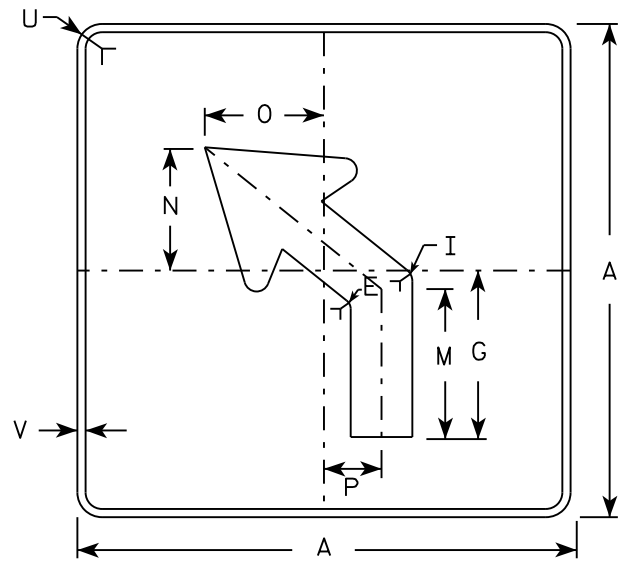
M5-1L
MM5-1L
M05-1L
MP5-1L



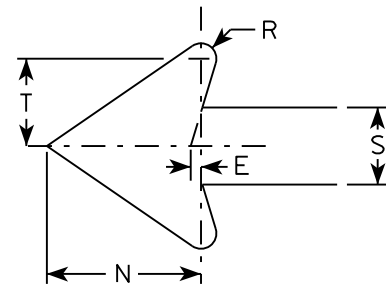
M5-2L
MM5-2L
M05-2L
MP5-2L



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 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 |

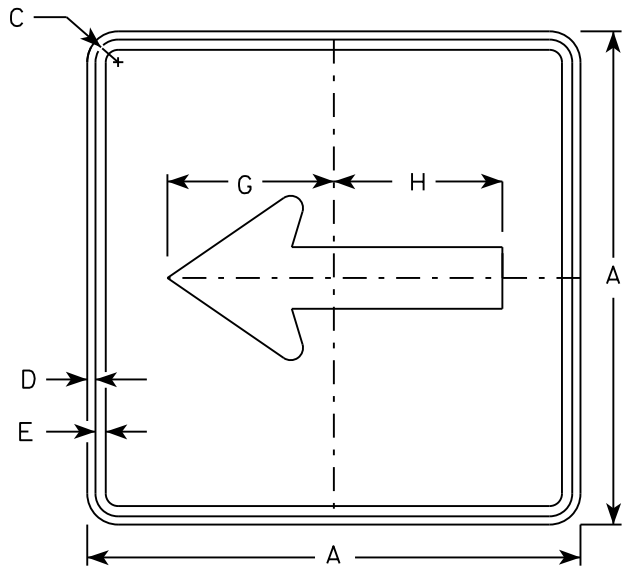
| | | | | |
|-------------|------|---------|-----------|---|
| PROJECT NO: | HWY: | COUNTY: | SHEET NO: | E |
|-------------|------|---------|-----------|---|

STANDARD SIGN
M5-1 & M5-2

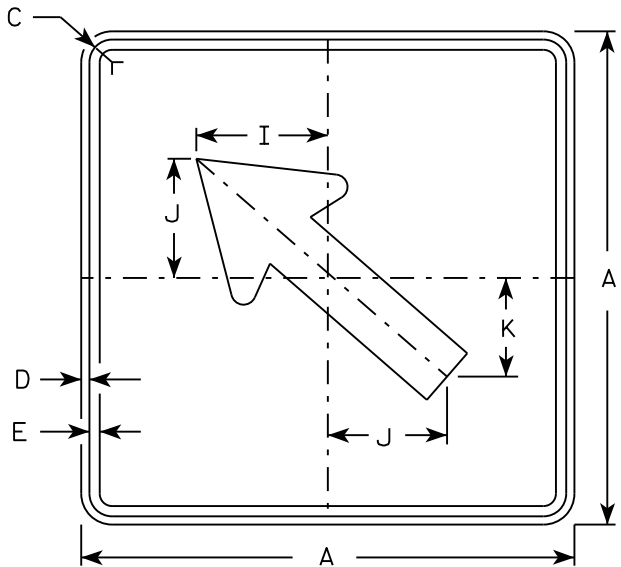
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

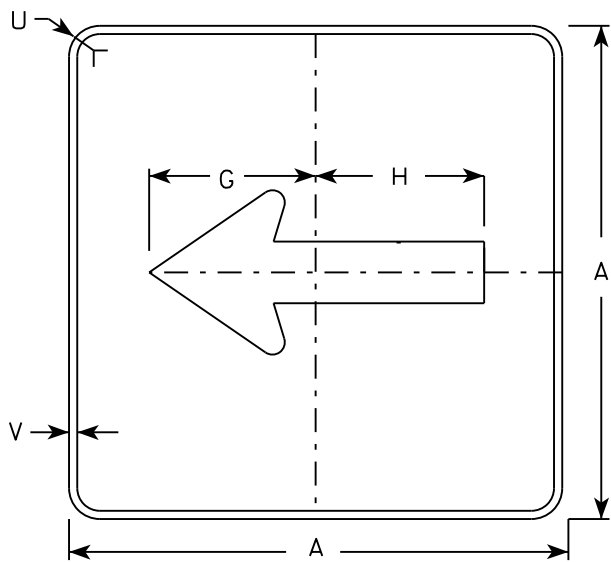
DATE 10/15/15 PLATE NO. M5-1.13



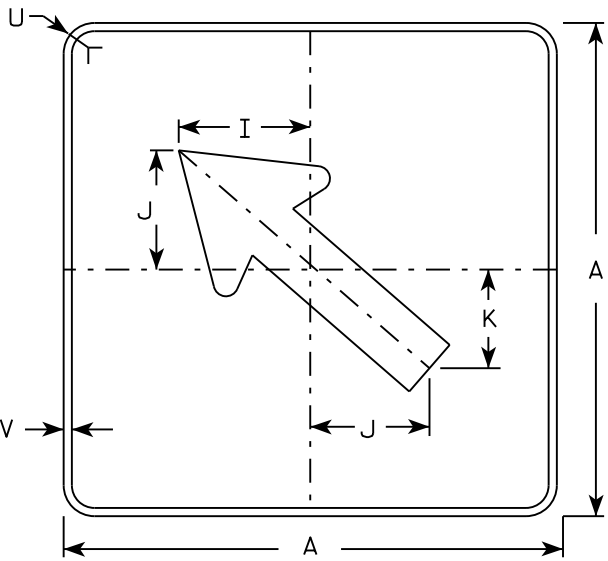
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



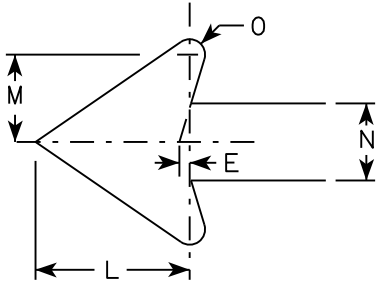
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 2
MR6 - 2



NOTES

- Signs are Type II - Type H 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.
- M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 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 sq. ft. |
|------|----|---|-------|-----|-----|---|--------|--------|-------|-------|-------|-------|-------|-------|-----|---|---|---|---|---|-------|-----|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 21 | | 1 1/8 | 3/8 | 3/8 | | 7 1/2 | 7 1/8 | 5 5/8 | 5 | 4 1/4 | 5 1/4 | 3 | 2 5/8 | 1/2 | | | | | | 1 1/2 | 1/2 | | | | | 3.06 |
| 3 | 30 | | 1 3/8 | 1/2 | 5/8 | | 10 3/4 | 10 1/4 | 8 | 7 1/4 | 6 | 7 1/2 | 4 1/4 | 3 3/4 | 3/4 | | | | | | 1 7/8 | 1/2 | | | | | 6.25 |
| 4 | 30 | | 1 3/8 | 1/2 | 5/8 | | 10 3/4 | 10 1/4 | 8 | 7 1/4 | 6 | 7 1/2 | 4 1/4 | 3 3/4 | 3/4 | | | | | | 1 7/8 | 1/2 | | | | | 6.25 |
| 5 | 30 | | 1 3/8 | 1/2 | 5/8 | | 10 3/4 | 10 1/4 | 8 | 7 1/4 | 6 | 7 1/2 | 4 1/4 | 3 3/4 | 3/4 | | | | | | 1 7/8 | 1/2 | | | | | 6.25 |

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

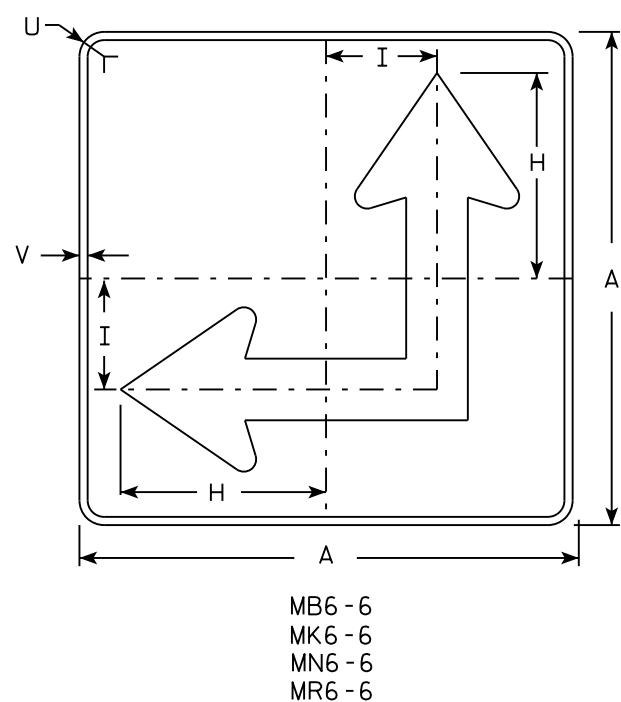
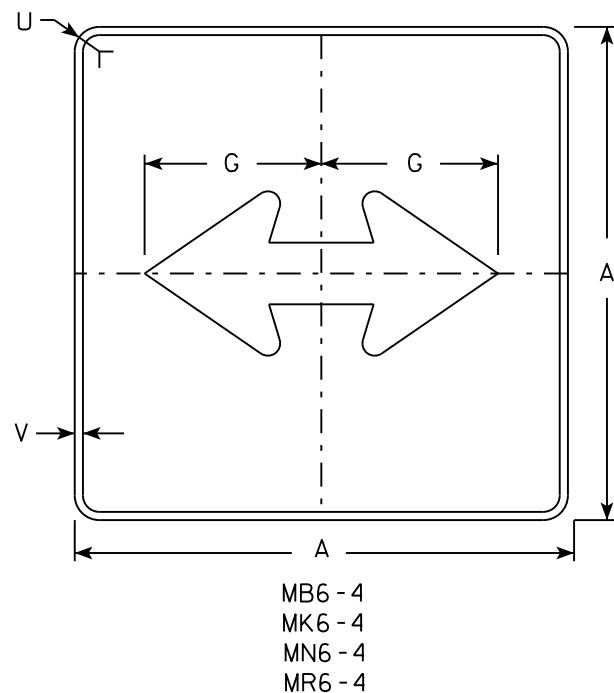
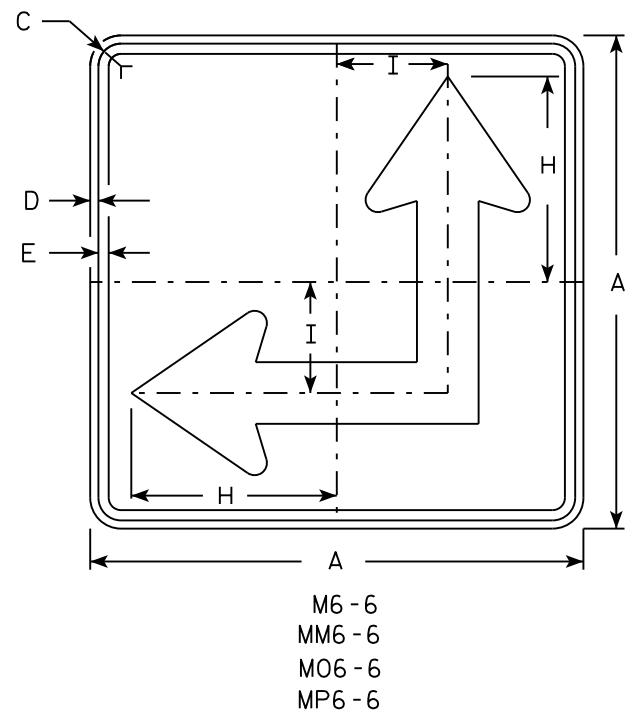
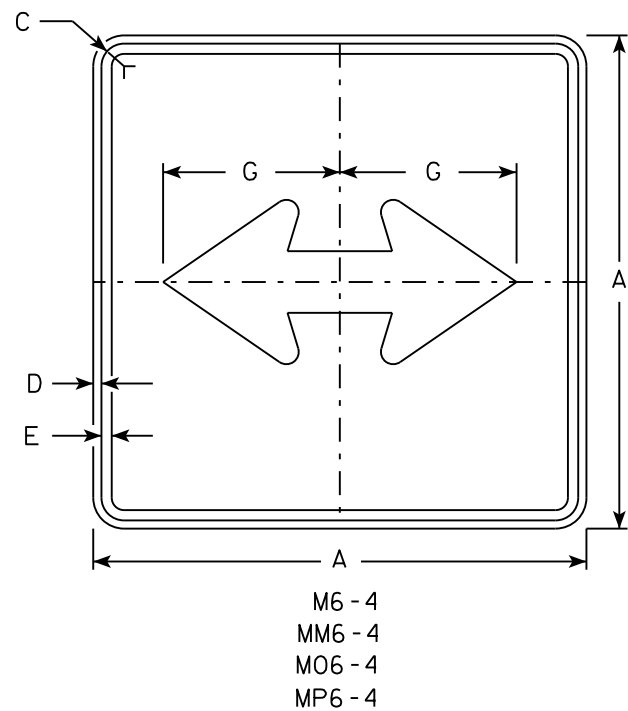
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

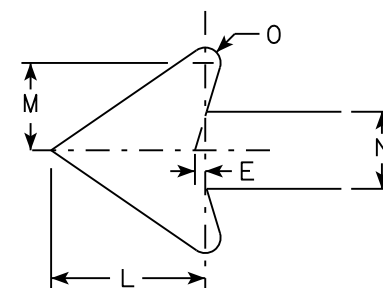
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15



NOTES

- Signs are Type II - Type H 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
MO6-4 and MO6-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and 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 sq. ft. |
|------|----|---|-------|-----|-----|---|--------|--------|-------|---|---|-------|-------|-------|-----|---|---|---|---|---|-------|-----|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 21 | | 1 1/8 | 3/8 | 3/8 | | 7 1/2 | 8 3/4 | 4 1/4 | | | 5 1/4 | 3 | 2 5/8 | 1/2 | | | | | | 1 1/2 | 1/2 | | | | | 3.06 |
| 3 | 30 | | 1 3/8 | 1/2 | 5/8 | | 10 3/4 | 12 1/2 | 6 3/4 | | | 7 1/2 | 4 1/4 | 3 3/4 | 3/4 | | | | | | 1 7/8 | 1/2 | | | | | 6.25 |
| 4 | 30 | | 1 3/8 | 1/2 | 5/8 | | 10 3/4 | 12 1/2 | 6 3/4 | | | 7 1/2 | 4 1/4 | 3 3/4 | 3/4 | | | | | | 1 7/8 | 1/2 | | | | | 6.25 |
| 5 | 30 | | 1 3/8 | 1/2 | 5/8 | | 10 3/4 | 12 1/2 | 6 3/4 | | | 7 1/2 | 4 1/4 | 3 3/4 | 3/4 | | | | | | 1 7/8 | 1/2 | | | | | 6.25 |

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

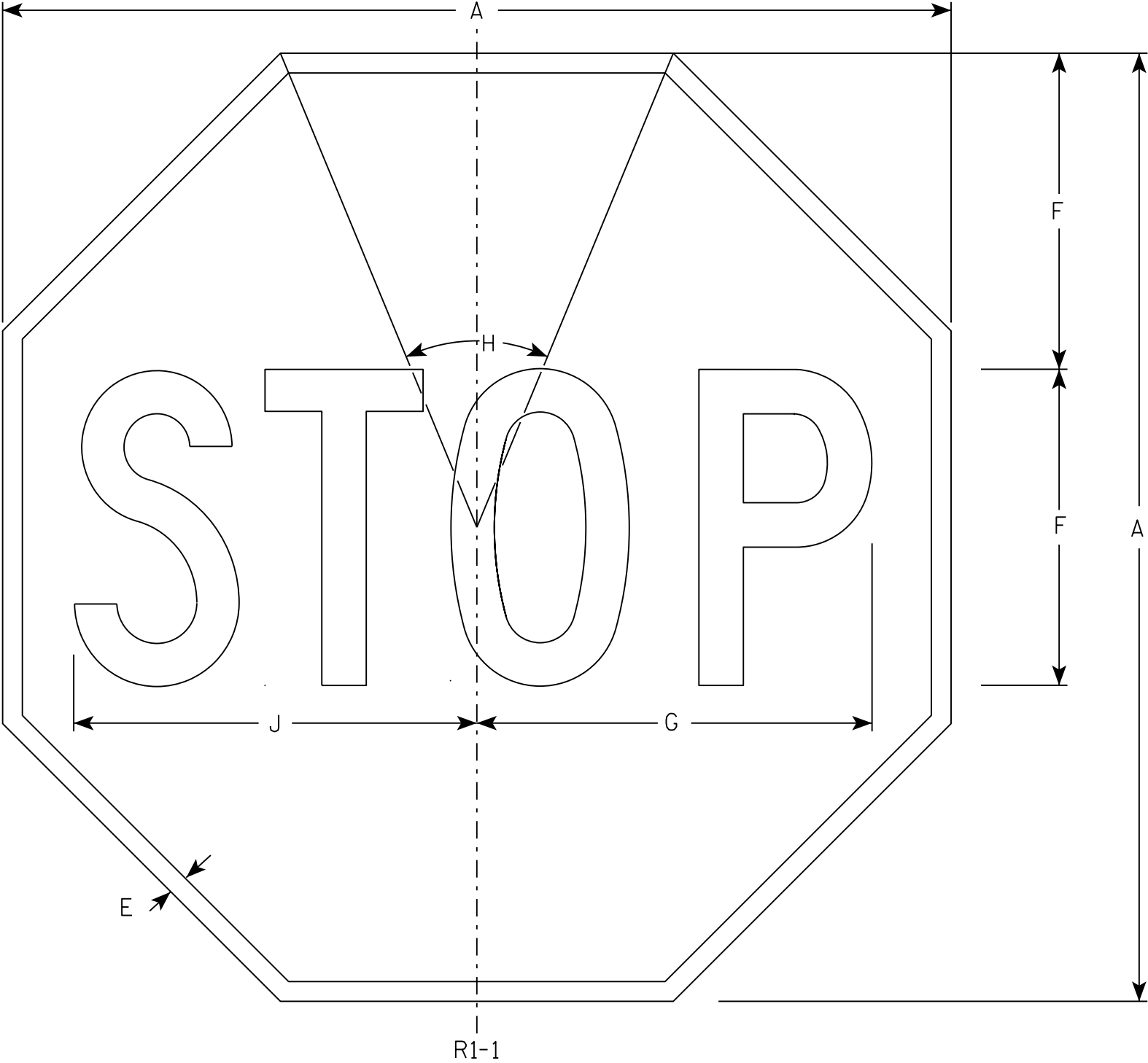
STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10

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 - Red
Message - White
- 3. Message Series - C

7

R1-1

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|---|---|-----|----|--------|-----|---|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 30 | | | | 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



R4-3

NOTES

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

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|---|-------|-------|--------|----|--------|--------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 4 | 3 5/8 | 2 1/4 | 9 3/4 | 10 | 6 1/4 | 6 3/4 | 7 1/8 | 7 5/8 | | | | | | | | | | | | | 5.0 |
| 2M | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 4 | 3 5/8 | 2 1/4 | 9 3/4 | 10 | 6 1/4 | 6 3/4 | 7 1/8 | 7 5/8 | | | | | | | | | | | | | 5.0 |
| 3 | 36 | 48 | 1 5/8 | 5/8 | 3/4 | 6 | 6 | 4 | 14 5/8 | 15 | 9 3/8 | 10 | 10 3/4 | 11 3/8 | | | | | | | | | | | | | 12.0 |
| 4 | 36 | 48 | 1 5/8 | 5/8 | 3/4 | 6 | 6 | 4 | 14 5/8 | 15 | 9 3/8 | 10 | 10 3/4 | 11 3/8 | | | | | | | | | | | | | 12.0 |
| 5 | 48 | 60 | 2 1/4 | 3/4 | 1 | 8 | 7 1/4 | 4 1/2 | 19 1/2 | 20 | 12 1/2 | 13 1/2 | 14 1/4 | 15 1/4 | | | | | | | | | | | | | 20.0 |

STANDARD SIGN R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

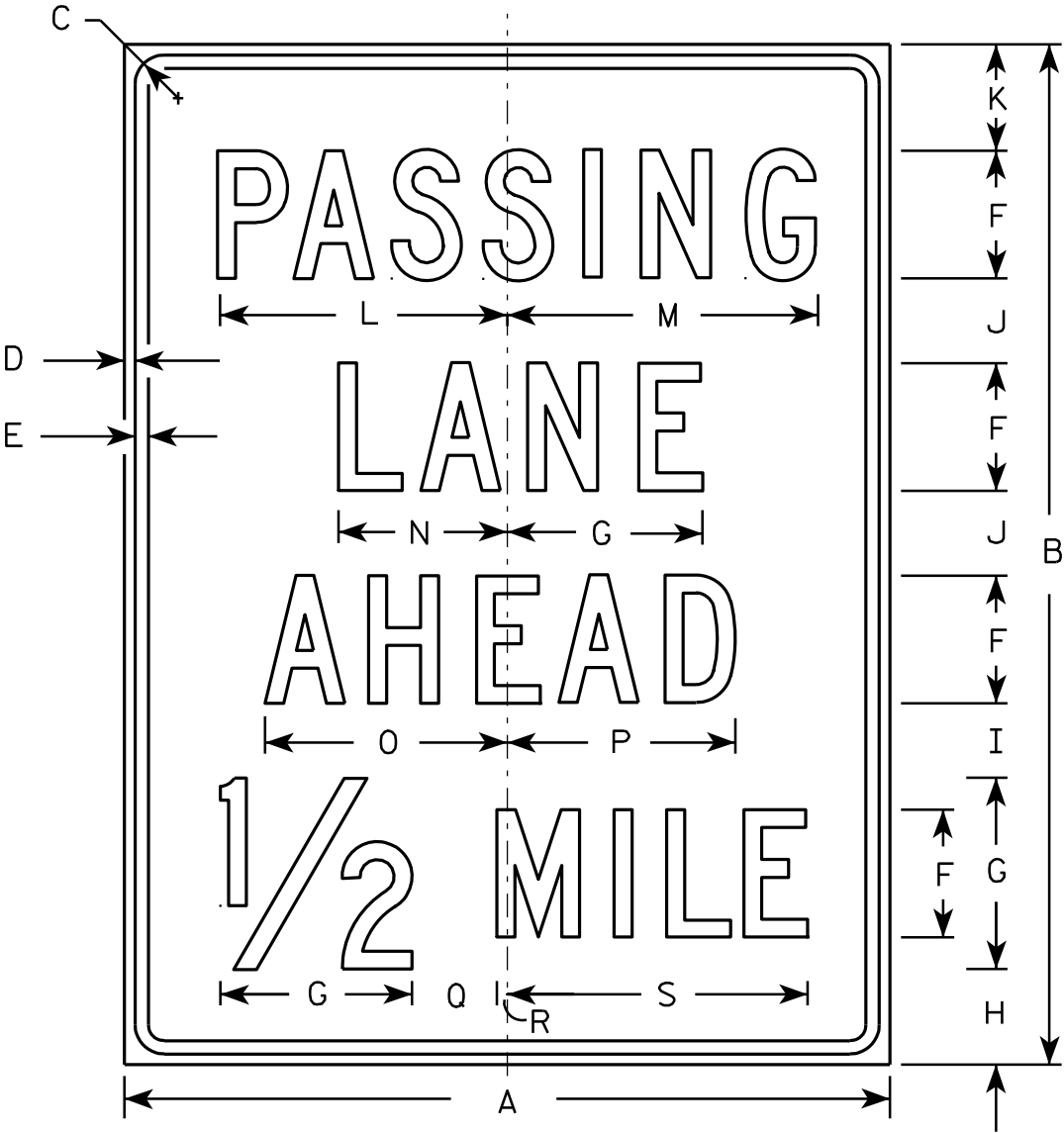
PROJECT NO:

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 - 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.



R4-51

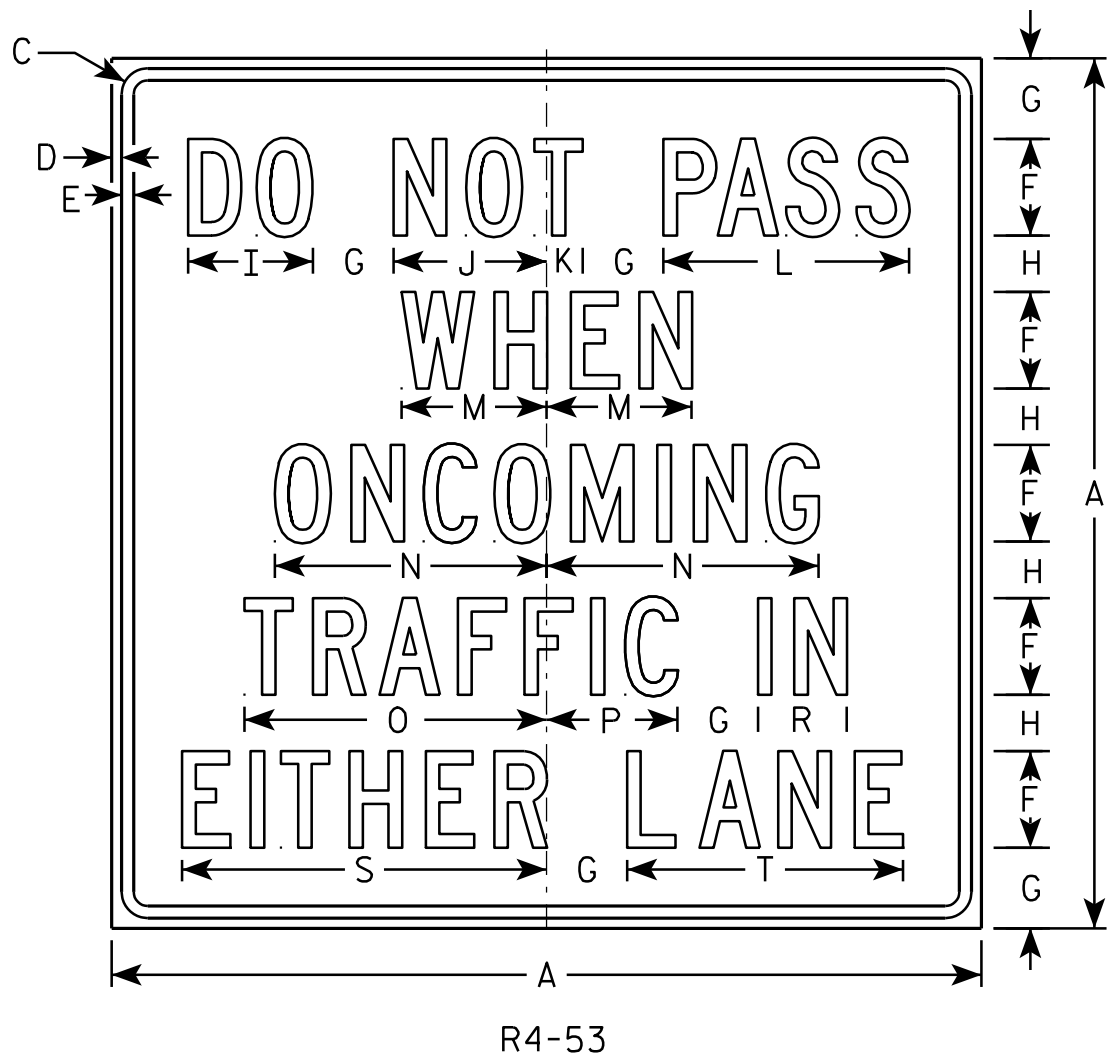
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------------------------------|-----|-----------------------------|---|---|-------|-------|---|---|--------------------------------|--------|---|--------------------------------|--------------------------------|---|-----|--------|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 36 | 48 | 1 ³ / ₈ | 1/2 | ⁵ / ₈ | 6 | 9 | 4 1/2 | 3 1/2 | 4 | 5 | 13 ⁵ / ₈ | 14 1/2 | 8 | 11 ³ / ₈ | 10 ³ / ₄ | 4 | 1/2 | 14 1/8 | | | | | | | | 12.0 |
| 2M | 36 | 48 | 1 ³ / ₈ | 1/2 | ⁵ / ₈ | 6 | 9 | 4 1/2 | 3 1/2 | 4 | 5 | 13 ⁵ / ₈ | 14 1/2 | 8 | 11 ³ / ₈ | 10 ³ / ₄ | 4 | 1/2 | 14 1/8 | | | | | | | | 12.0 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STANDARD SIGN
R4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-51.4

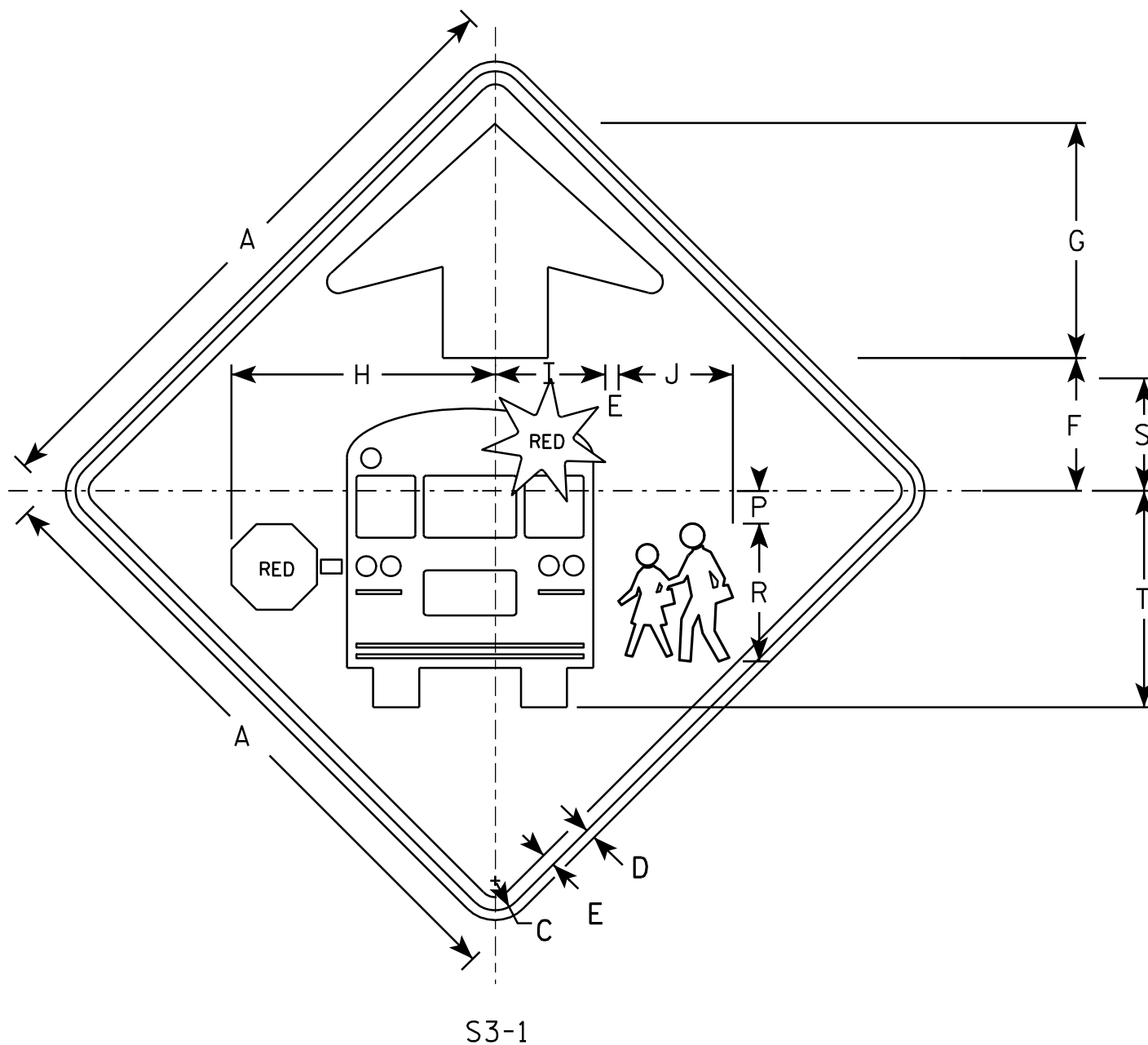


NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - WHITE
Message - BLACK
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

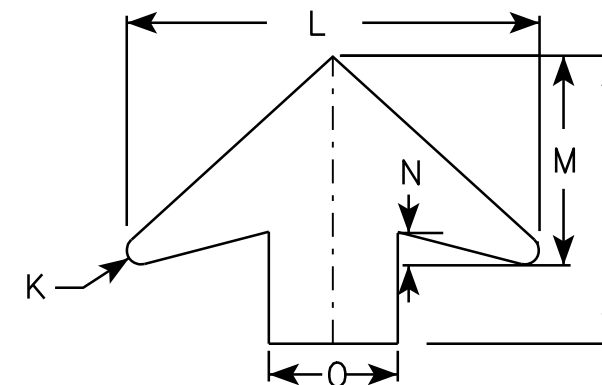
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|---|-------|-------|-------|-------|--------|---|--------|--------|-------|---|-------|--------|--------|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 54 | | 1 5/8 | 5/8 | 3/4 | 6 | 5 | 3 1/2 | 7 3/4 | 9 1/2 | 2 1/4 | 15 1/4 | 9 | 16 7/8 | 18 3/4 | 8 1/8 | | 5 1/2 | 22 5/8 | 17 1/8 | | | | | | | 20.25 |
| 2M | 54 | | 1 5/8 | 5/8 | 3/4 | 6 | 5 | 3 1/2 | 7 3/4 | 9 1/2 | 2 1/4 | 15 1/4 | 9 | 16 7/8 | 18 3/4 | 8 1/8 | | 5 1/2 | 22 5/8 | 17 1/8 | | | | | | | 20.25 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|----------------------------------|---|
| STANDARD SIGN R4-53 | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R. Rauch</i> for State Traffic Engineer |
| DATE 6/2/10 | PLATE NO. R4-53.1 |



NOTES

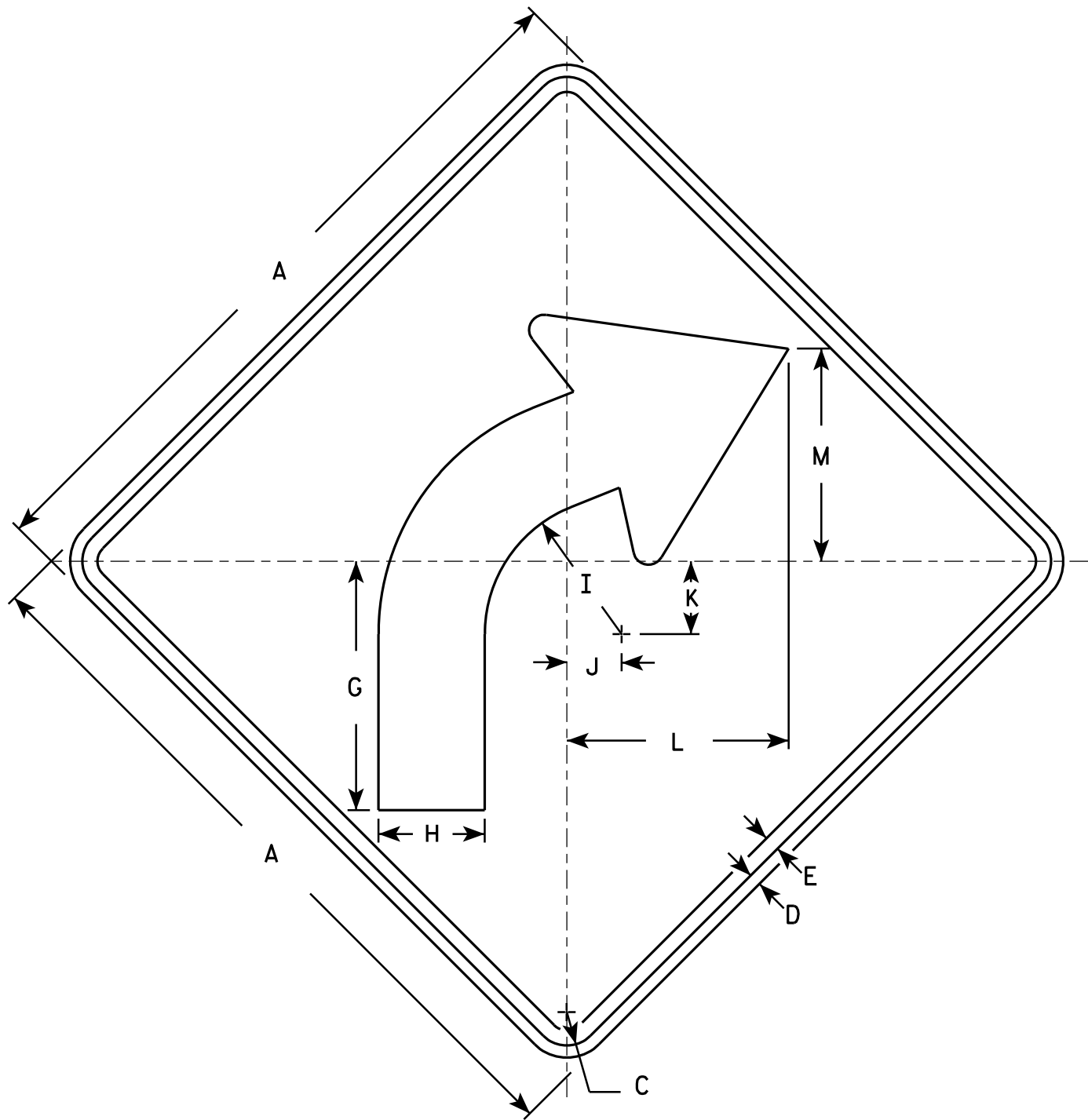
1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 - Background - YELLOW-GREEN
 - Message - BLACK except as noted
 - Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

[illegible]

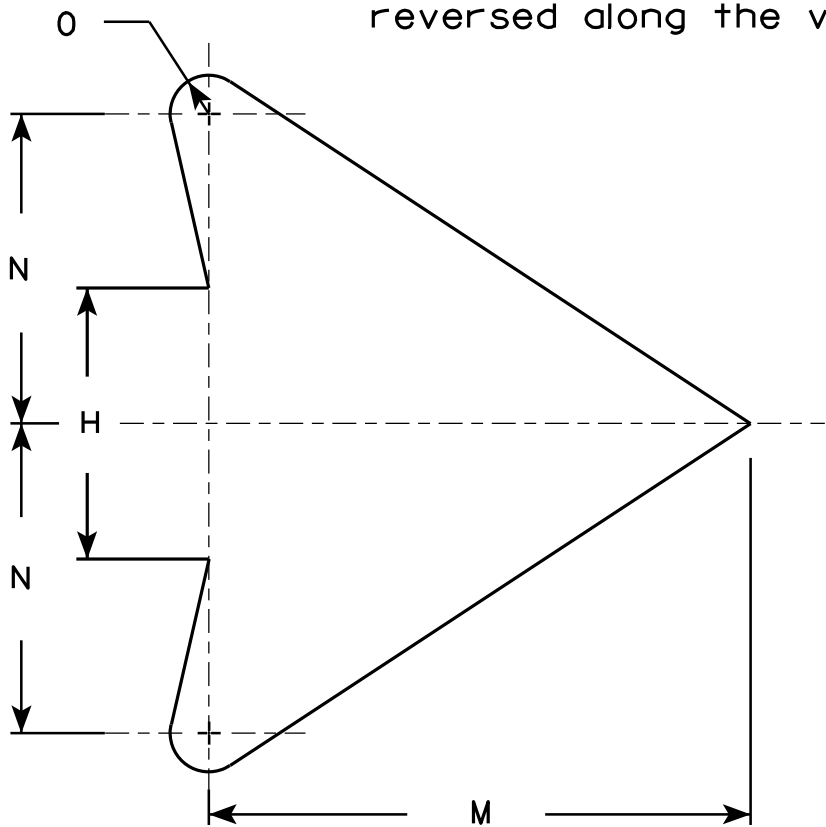
| | |
|----------------------------------|---|
| STANDARD SIGN | |
| S3-1 | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <u>Matthew R. Rauch</u> for State Traffic Engineer |
| DATE <u>6/8/10</u> | PLATE NO. <u>S3-16</u> |

NOTES

1. Sign is Type II - Type F Reflective - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is
reversed along the vertical centerline.



W1-2R



ARROW DETAIL

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|--------|-------|-------|-------|-------|--------|--------|---|-----|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 24 | | 1 1/8 | 3/8 | 1/2 | | 8 1/4 | 3 1/2 | 4 1/2 | 1 3/4 | 2 3/8 | 7 1/4 | 7 | 4 | 1/2 | | | | | | | | | | | | 4.0 |
| 2S | 30 | | 1 3/8 | 1/2 | 5/8 | | 10 1/4 | 4 3/8 | 5 5/8 | 2 1/4 | 3 | 9 1/8 | 8 3/4 | 5 | 5/8 | | | | | | | | | | | | 6.25 |
| 2M | 36 | | 1 5/8 | 5/8 | 3/4 | | 12 3/8 | 5 1/4 | 6 3/4 | 2 5/8 | 3 1/2 | 10 7/8 | 10 1/2 | 6 | 3/4 | | | | | | | | | | | | 9.0 |
| 3 | 36 | | 1 5/8 | 5/8 | 3/4 | | 12 3/8 | 5 1/4 | 6 3/4 | 2 5/8 | 3 1/2 | 10 7/8 | 10 1/2 | 6 | 3/4 | | | | | | | | | | | | 9.0 |
| 4 | 36 | | 1 5/8 | 5/8 | 3/4 | | 12 3/8 | 5 1/4 | 6 3/4 | 2 5/8 | 3 1/2 | 10 7/8 | 10 1/2 | 6 | 3/4 | | | | | | | | | | | | 9.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | | 16 1/2 | 7 | 9 | 3 1/2 | 4 5/8 | 14 1/2 | 14 | 8 | 1 | | | | | | | | | | | | 16.0 |

STANDARD SIGN
W1-2

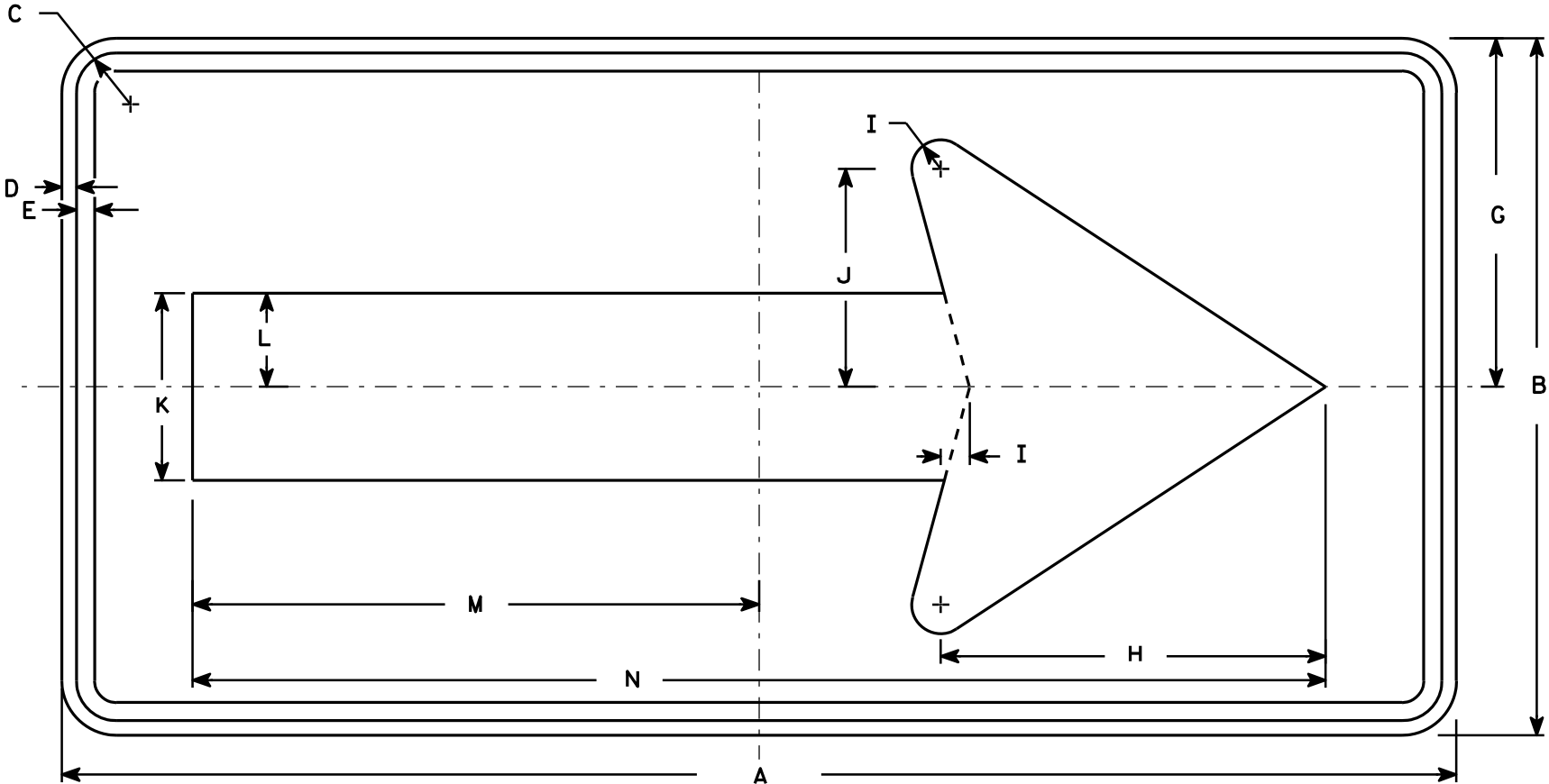
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

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.



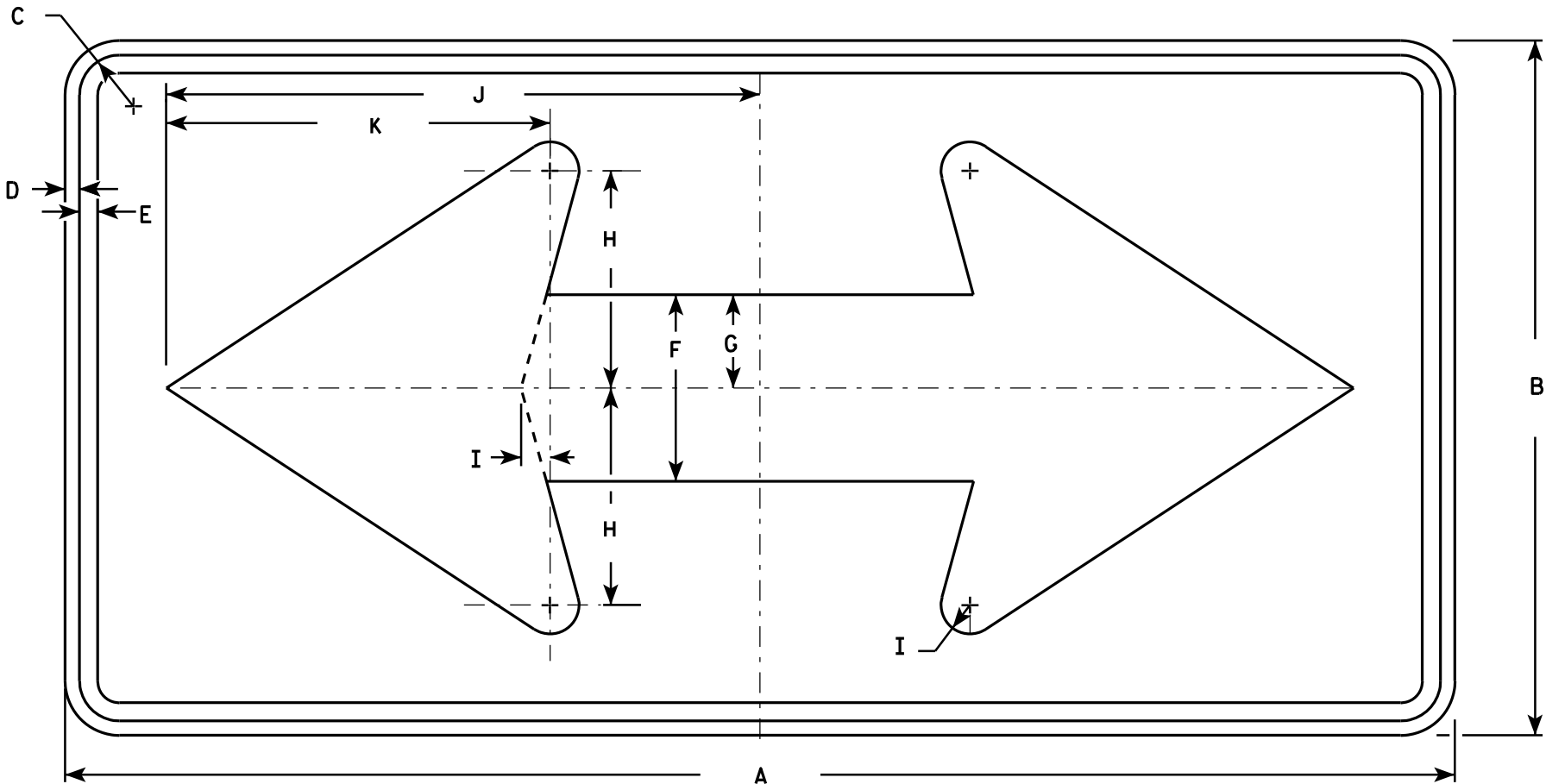
W1-6

| 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 sq. ft. |
|------|----|----|-------|-----|-----|---|----|--------|-------|-------|-------|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 36 | 18 | 1 1/8 | 3/8 | 3/8 | | 9 | 10 | 3/4 | 5 5/8 | 4 3/4 | 2 3/8 | 14 5/8 | 29 1/4 | | | | | | | | | | | | | 4.5 |
| 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 | 96 | 48 | 2 1/4 | 3/4 | 1 | | 24 | 26 1/2 | 2 | 15 | 13 | 6 1/2 | 39 | 78 | | | | | | | | | | | | | 32.0 |

STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8



W1-7

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|-------|-------|-------|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 36 | 18 | 1 1/8 | 3/8 | 1/2 | 5 | 2 1/2 | 5 3/4 | 3/4 | 15 5/8 | 10 1/8 | | | | | | | | | | | | | | | | 4.5 |
| 2S | 48 | 24 | 1 3/8 | 1/2 | 5/8 | 6 1/2 | 3 1/4 | 7 1/2 | 1 | 20 1/2 | 13 1/4 | | | | | | | | | | | | | | | | 8.0 |
| 2M | 48 | 24 | 1 3/8 | 1/2 | 5/8 | 6 1/2 | 3 1/4 | 7 1/2 | 1 | 20 1/2 | 13 1/4 | | | | | | | | | | | | | | | | 8.0 |
| 3 | 60 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 4 | 9 1/4 | 1 1/4 | 25 3/8 | 16 1/4 | | | | | | | | | | | | | | | | 12.5 |
| 4 | 60 | 30 | 1 3/8 | 1/2 | 5/8 | 8 | 4 | 9 1/4 | 1 1/4 | 25 3/8 | 16 1/4 | | | | | | | | | | | | | | | | 12.5 |
| 5 | 96 | 48 | 2 1/4 | 3/4 | 1 | 13 | 6 1/2 | 15 | 2 | 41 | 26 1/2 | | | | | | | | | | | | | | | | 32.0 |

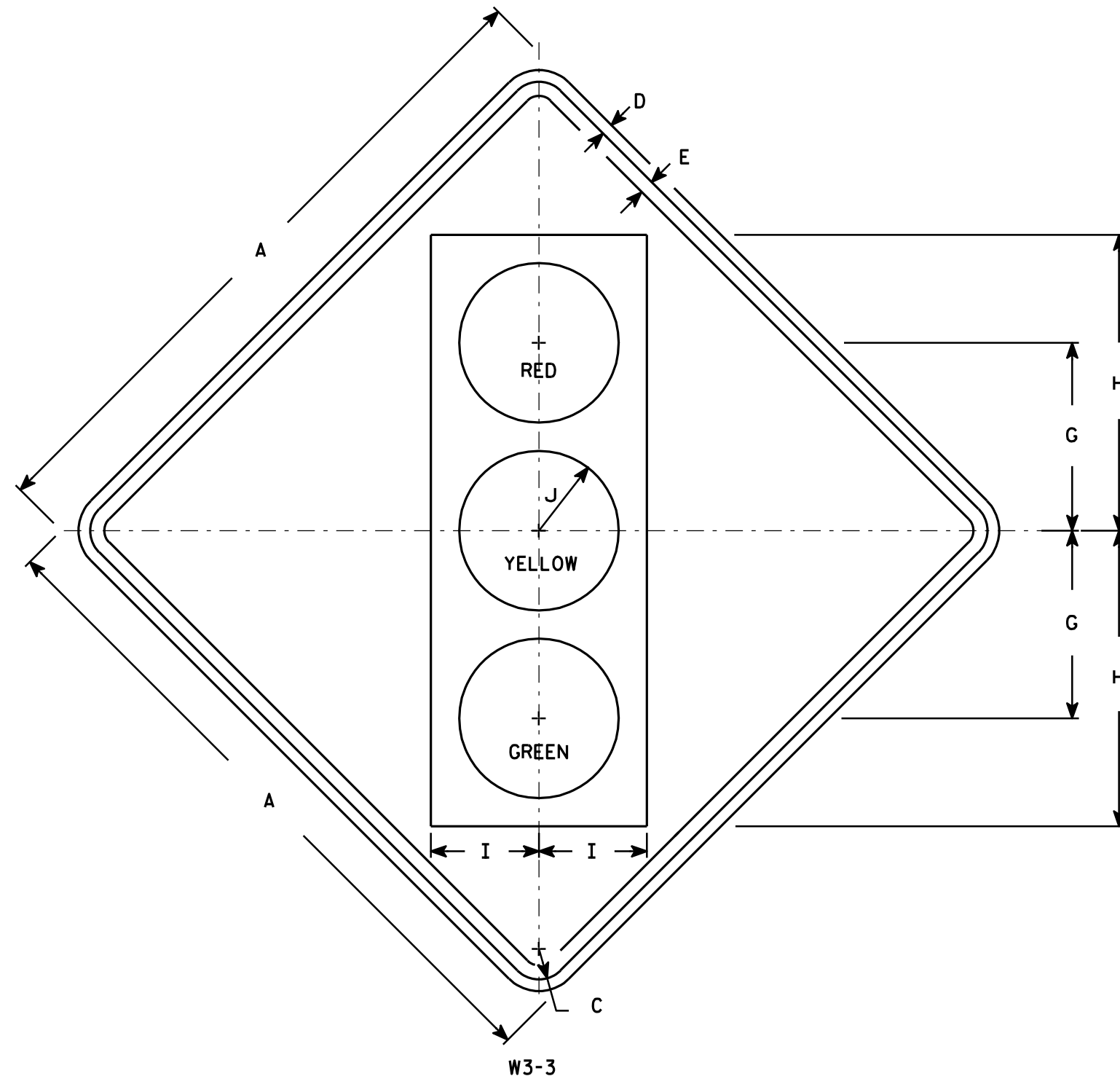
STANDARD SIGN

W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7



NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Yellow
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.
- Symbol and border are non-reflective black.
Top circle - Type H Reflectorized Red
Center circle - Same as background
Bottom circle - Type H Reflectorized Green

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

STANDARD SIGN W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 6/7/10

PLATE NO. W3-3.11

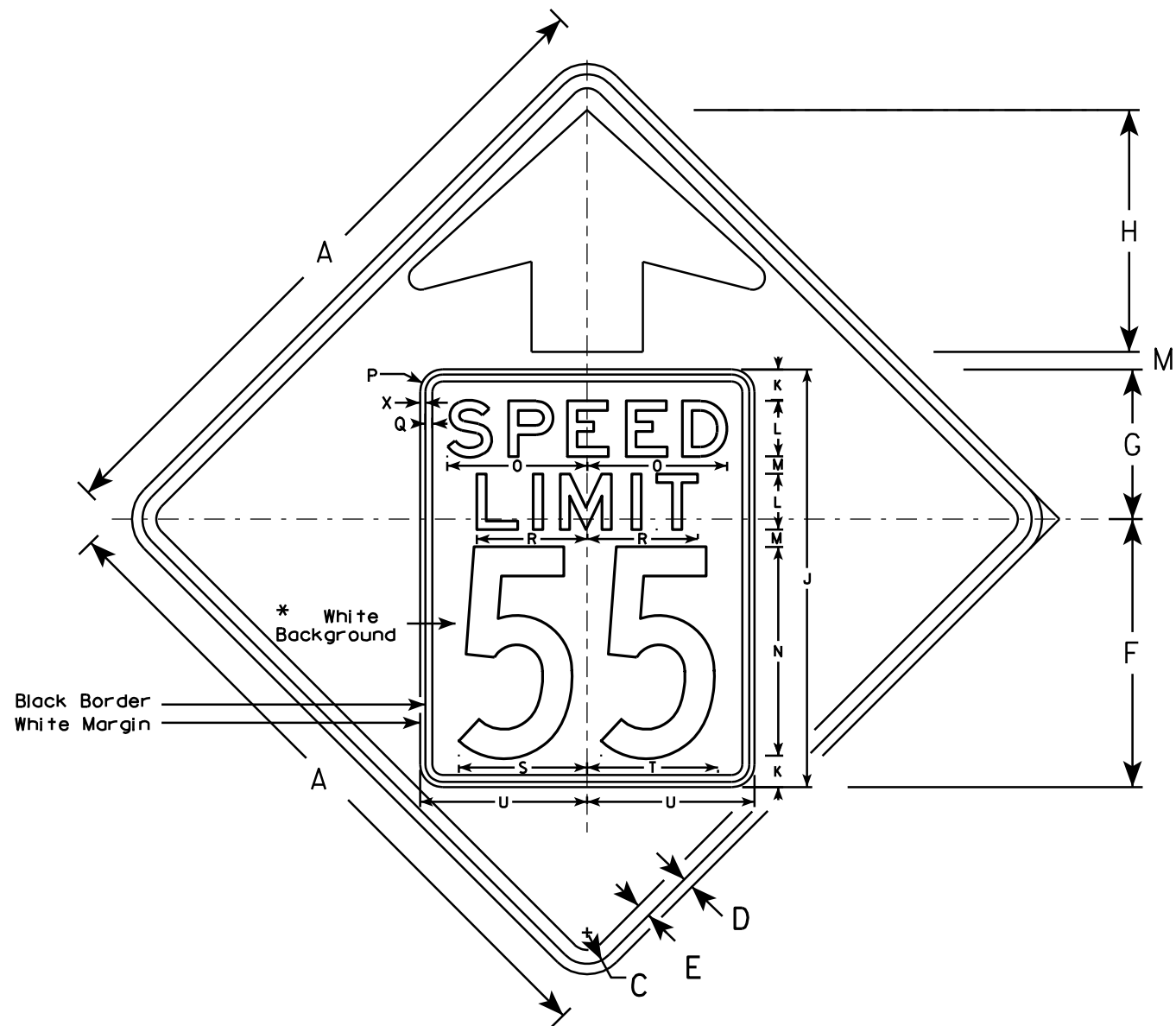
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

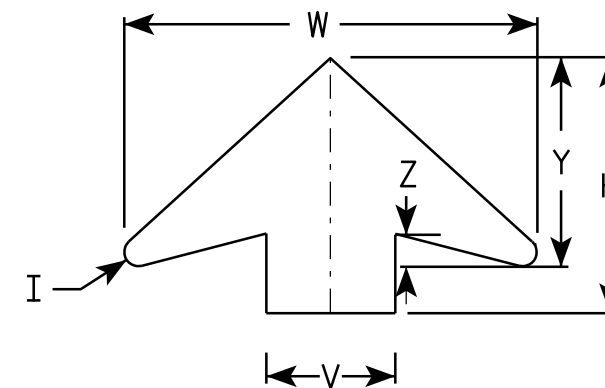


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
Background - YELLOW*
Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|--------|--------|--------|-----|----|-------|---|-------|----|-------|-------|-----|-------|-------|-------|----|---|--------|-----|-------|-------|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 36 | | 1 5/8 | 5/8 | 3/4 | 14 1/2 | 9 1/2 | 11 1/2 | 5/8 | 24 | 2 | 3 | 1 | 12 | 7 1/8 | 1 1/2 | 3/8 | 5 3/4 | 7 1/4 | 7 1/8 | 9 | 6 | 19 1/4 | 3/8 | 9 3/4 | 1 5/8 | 9.0 |
| 2M | 36 | | 1 5/8 | 5/8 | 3/4 | 14 1/2 | 9 1/2 | 11 1/2 | 5/8 | 24 | 2 | 3 | 1 | 12 | 7 1/8 | 1 1/2 | 3/8 | 5 3/4 | 7 1/4 | 7 1/8 | 9 | 6 | 19 1/4 | 3/8 | 9 3/4 | 1 5/8 | 9.0 |
| 3 | 36 | | 1 5/8 | 5/8 | 3/4 | 14 1/2 | 9 1/2 | 11 1/2 | 5/8 | 24 | 2 | 3 | 1 | 12 | 7 1/8 | 1 1/2 | 3/8 | 5 3/4 | 7 1/4 | 7 1/8 | 9 | 6 | 19 1/4 | 3/8 | 9 3/4 | 1 5/8 | 9.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | 7/8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 5/8 | 3/8 | 13 | 2 | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | 7/8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 5/8 | 3/8 | 13 | 2 | 16.0 |

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

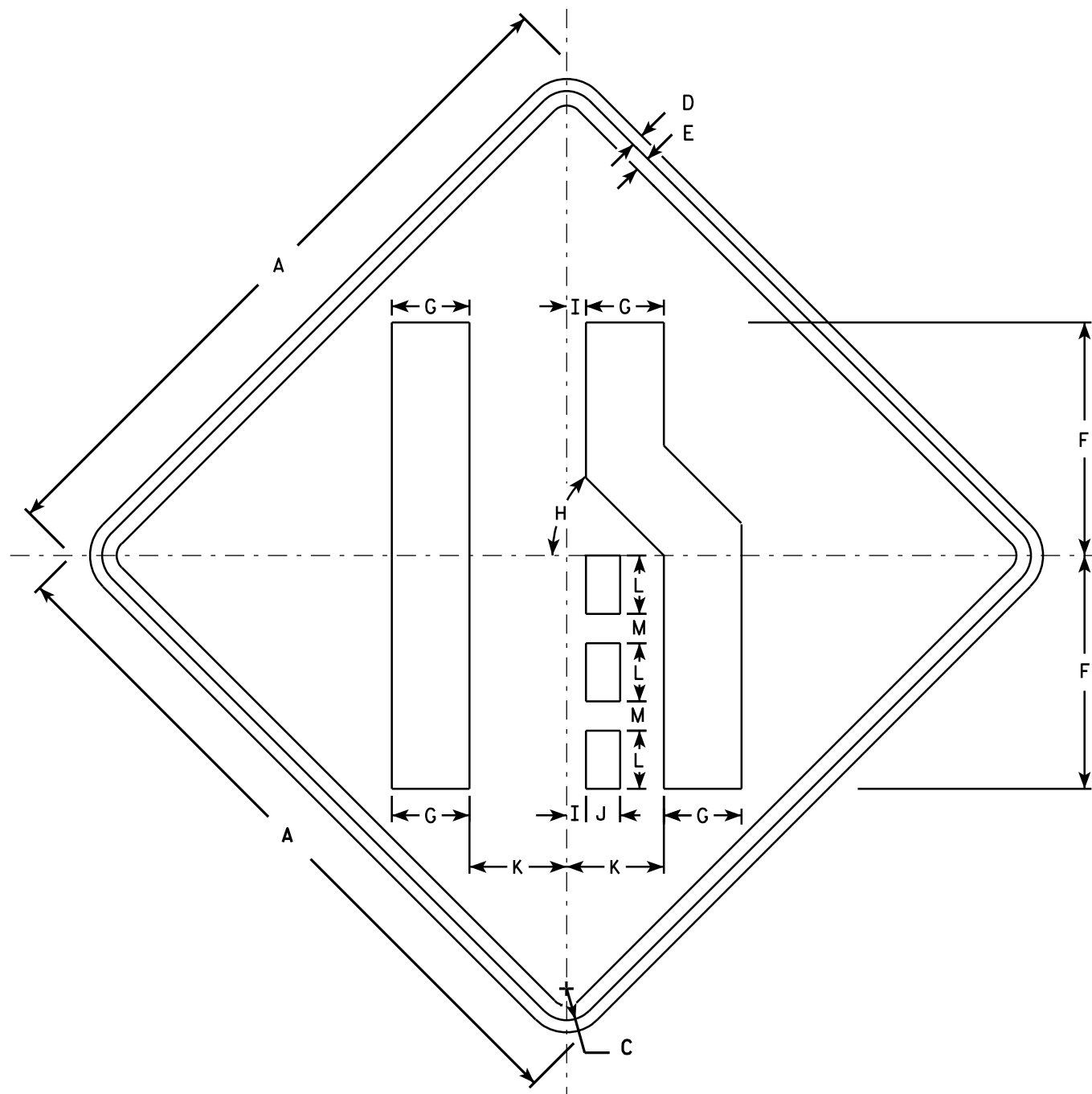
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO:

E



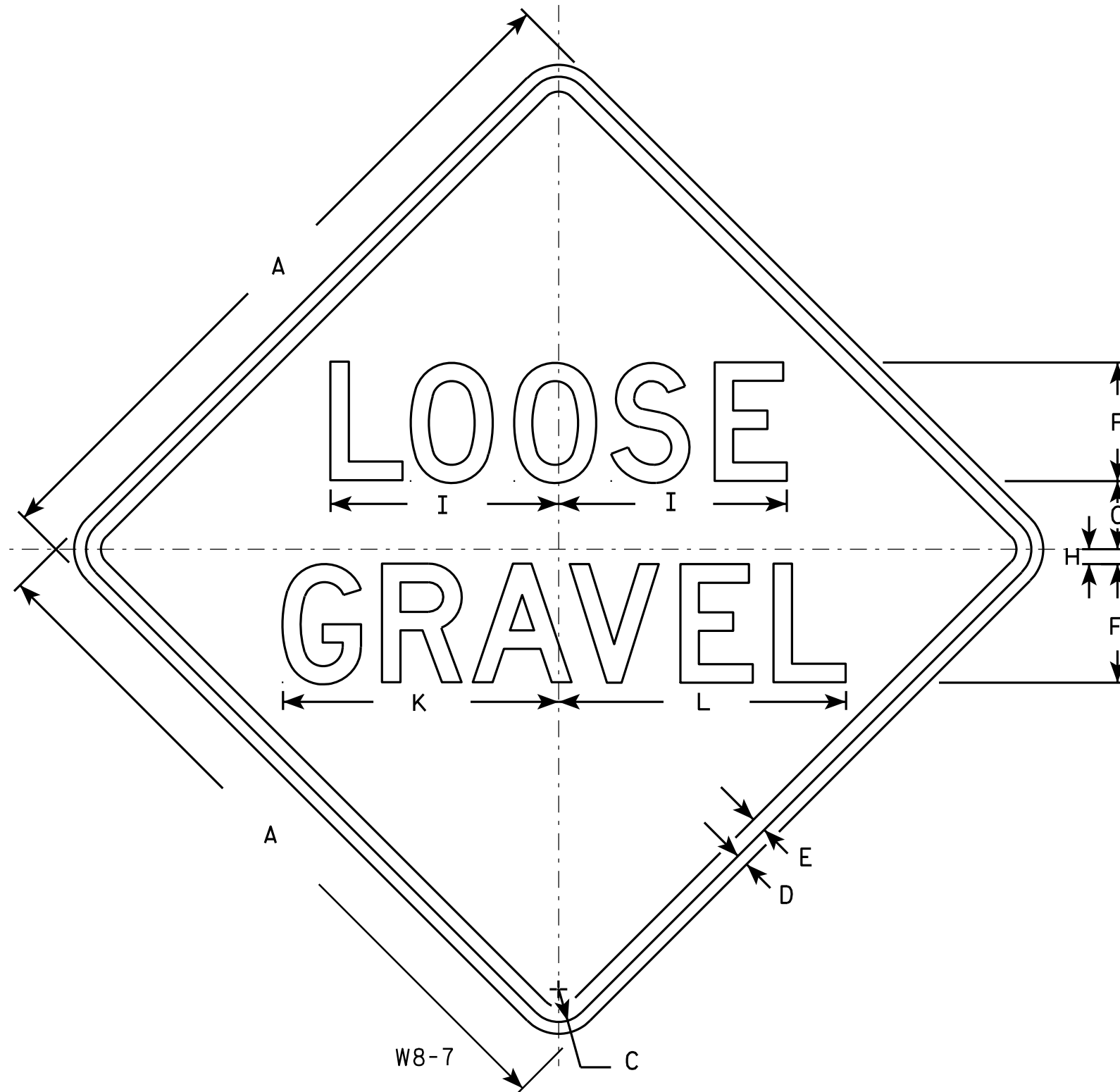
W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbols is reversed along the vertical centerline.

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|----|-------|-----|-------|-------|-------|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 30 | | 1 3⁄8 | 1⁄2 | 5⁄8 | 10 | 3 3⁄8 | 45° | 7⁄8 | 1 1⁄2 | 4 1⁄4 | 2 1⁄2 | 1 1⁄4 | | | | | | | | | | | | | | 6.25 |
| 2S | 36 | | 1 5⁄8 | 5⁄8 | 3⁄4 | 12 | 4 | 45° | 1 | 1 3⁄4 | 5 | 3 | 1 1⁄2 | | | | | | | | | | | | | | 9.0 |
| 2M | 36 | | 1 5⁄8 | 5⁄8 | 3⁄4 | 12 | 4 | 45° | 1 | 1 3⁄4 | 5 | 3 | 1 1⁄2 | | | | | | | | | | | | | | 9.0 |
| 3 | 36 | | 1 5⁄8 | 5⁄8 | 3⁄4 | 12 | 4 | 45° | 1 | 1 3⁄4 | 5 | 3 | 1 1⁄2 | | | | | | | | | | | | | | 9.0 |
| 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 | |
| W4-2 | |
| WISCONSIN DEPT OF TRANSPORTATION | |
| APPROVED | <i>Matthew R. Rauch</i> for State Traffic Engineer |
| DATE 3/12/13 | PLATE NO. W4-2.14 |



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 - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-----|--------|---|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 24 | | 1 1/8 | 3/8 | 1/2 | 4 | 2 3/4 | 1/2 | 7 3/4 | | 9 1/4 | 9 3/4 | | | | | | | | | | | | | | | 4.0 |
| 2S | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 4 1/8 | 3/4 | 11 5/8 | | 14 | 14 1/2 | | | | | | | | | | | | | | | 9.0 |
| 2M | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 4 1/8 | 3/4 | 11 5/8 | | 14 | 14 1/2 | | | | | | | | | | | | | | | 9.0 |
| 3 | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 4 1/8 | 3/4 | 11 5/8 | | 14 | 14 1/2 | | | | | | | | | | | | | | | 9.0 |
| 4 | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 4 1/8 | 3/4 | 11 5/8 | | 14 | 14 1/2 | | | | | | | | | | | | | | | 9.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 1/2 | 1 | 15 1/2 | | 18 5/8 | 19 3/8 | | | | | | | | | | | | | | | 16.0 |

STANDARD SIGN

W8-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 5/30/12 PLATE NO. W8-7.7

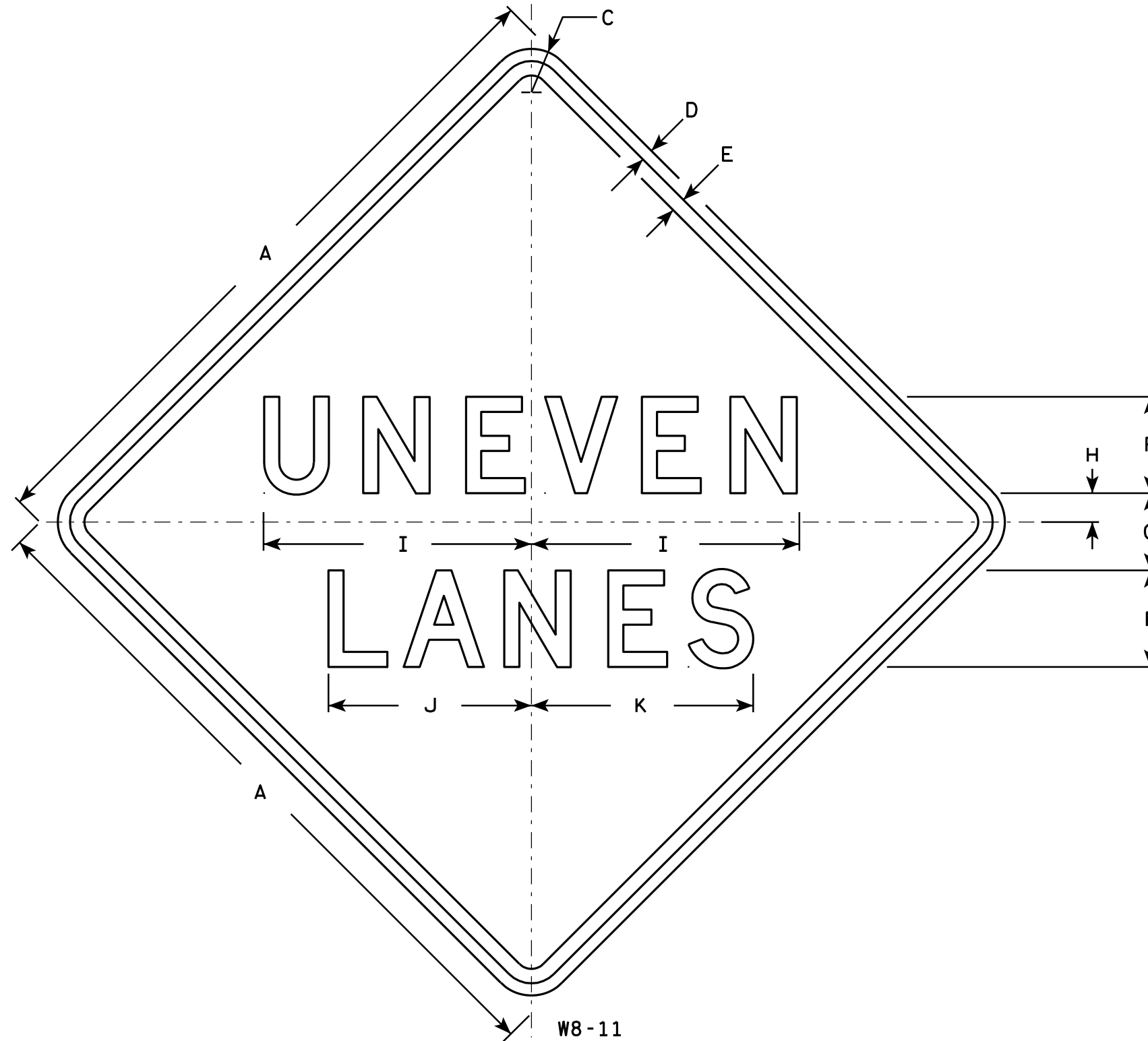
PROJECT NO:

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 - Orange
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|---|-------|--------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 36 | | 1 5/8 | 5/8 | 3/4 | 5 | 4 | 1 1/2 | 13 7/8 | 10 1/2 | 11 1/2 | | | | | | | | | | | | | | | | 9.0 |
| 2M | 36 | | 1 5/8 | 5/8 | 3/4 | 5 | 4 | 1 1/2 | 13 7/8 | 10 1/2 | 11 1/2 | | | | | | | | | | | | | | | | 9.0 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 36 | | 1 5/8 | 5/8 | 3/4 | 5 | 4 | 1 1/2 | 13 7/8 | 10 1/2 | 11 1/2 | | | | | | | | | | | | | | | | 9.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 7 | 5 | 2 | 18 1/2 | 14 | 15 3/8 | | | | | | | | | | | | | | | | 16.0 |

STANDARD SIGN

W8-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W8-11.4

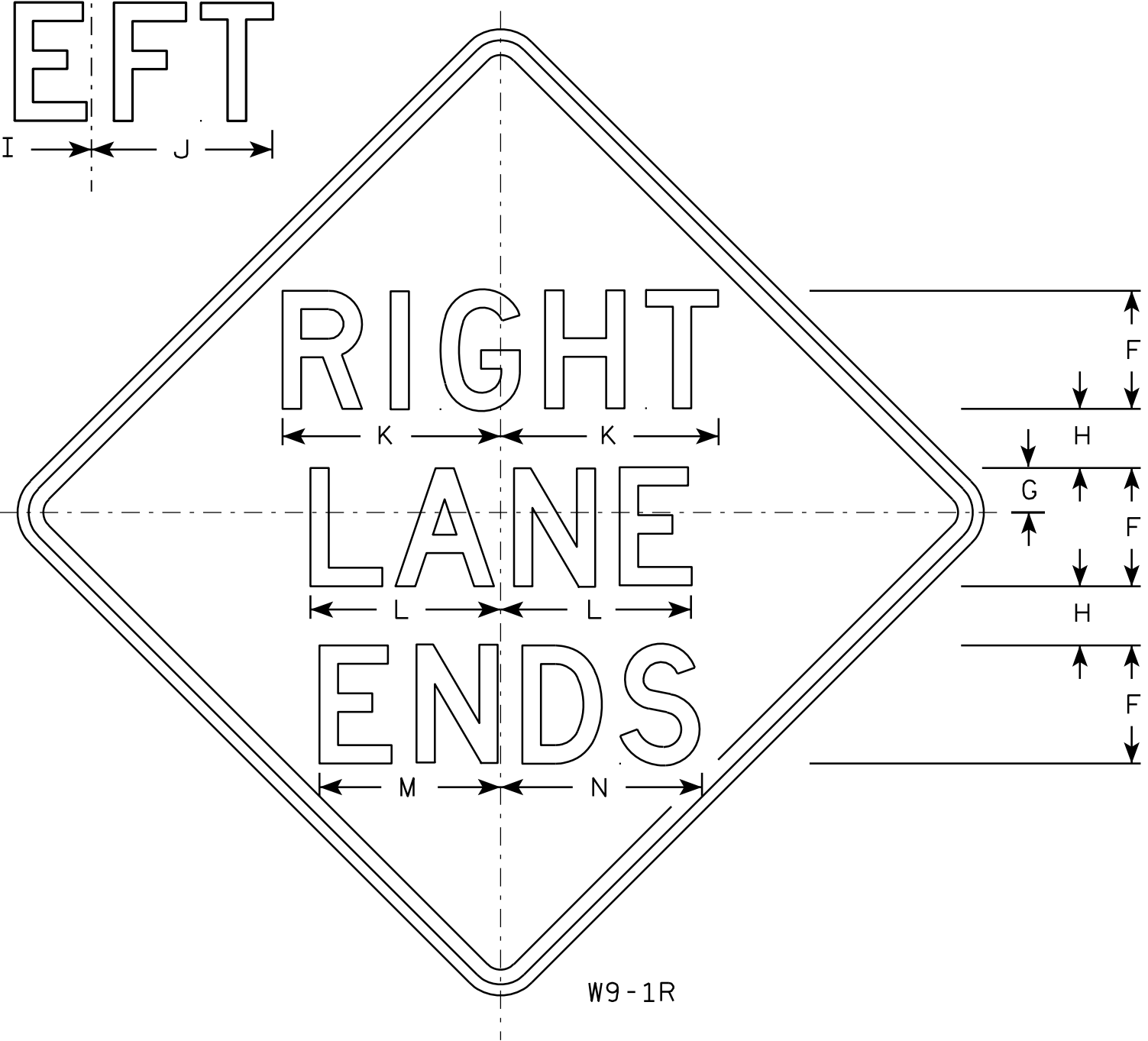
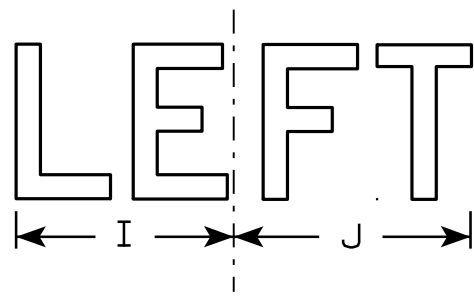
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

7

7

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------------------------------|-----------------------------|-----------------------------|---|-------|-------|--------|--------|--------|--------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 30 | | 1 ³ / ₈ | 1/2 | ⁵ / ₈ | 5 | 1 1/2 | 2 1/2 | 7 1/8 | 7 5/8 | 9 1/4 | 8 1/8 | 7 5/8 | 8 5/8 | | | | | | | | | | | | | 6.25 |
| 2S | 36 | | 1 ⁵ / ₈ | ⁵ / ₈ | ³ / ₄ | 6 | 2 | 3 | 8 1/2 | 9 1/8 | 11 | 9 3/4 | 9 | 10 3/8 | | | | | | | | | | | | | 9.0 |
| 2M | 36 | | 1 ⁵ / ₈ | ⁵ / ₈ | ³ / ₄ | 6 | 2 | 3 | 8 1/2 | 9 1/8 | 11 | 9 3/4 | 9 | 10 3/8 | | | | | | | | | | | | | 9.0 |
| 3 | 36 | | 1 ⁵ / ₈ | ⁵ / ₈ | ³ / ₄ | 6 | 2 | 3 | 8 1/2 | 9 1/8 | 11 | 9 3/4 | 9 | 10 3/8 | | | | | | | | | | | | | 9.0 |
| 4 | 36 | | 1 ⁵ / ₈ | ⁵ / ₈ | ³ / ₄ | 6 | 2 | 3 | 8 1/2 | 9 1/8 | 11 | 9 3/4 | 9 | 10 3/8 | | | | | | | | | | | | | 9.0 |
| 5 | 48 | | 2 1/4 | ³ / ₄ | 1 | 8 | 3 | 4 | 11 1/4 | 12 1/4 | 14 3/4 | 12 7/8 | 12 1/4 | 13 5/8 | | | | | | | | | | | | | 16.0 |

| | | | | | |
|-------------|--|--|--|-----------|---|
| PROJECT NO: | | | | SHEET NO: | E |
|-------------|--|--|--|-----------|---|

STANDARD SIGN

W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch

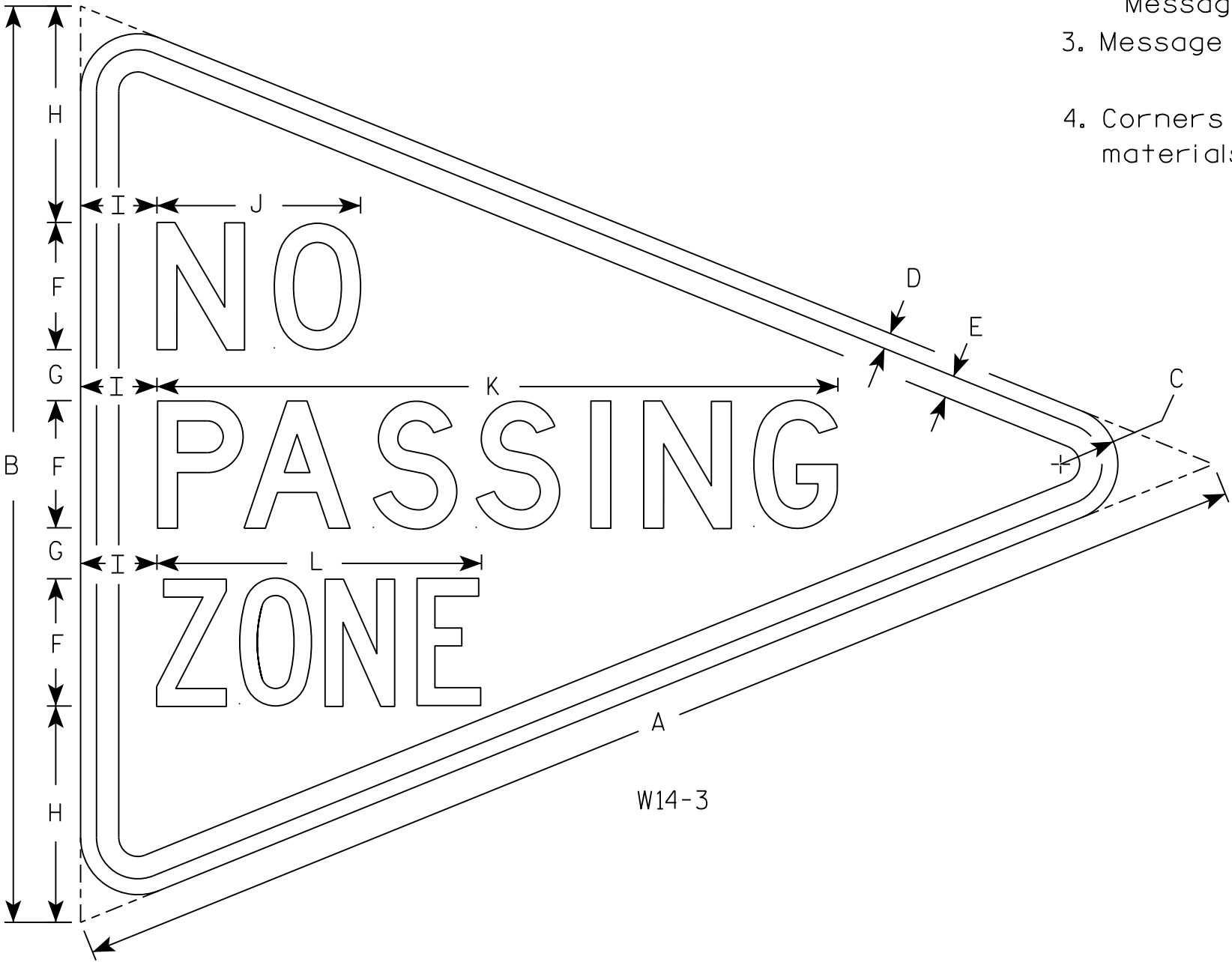
for State Traffic Engineer

DATE 03/18/13

PLATE NO. W9-1.8

NOTES

- 1. Sign is Type II- Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
- 4. Corners and borders shall be rounded on all base materials for this sign.



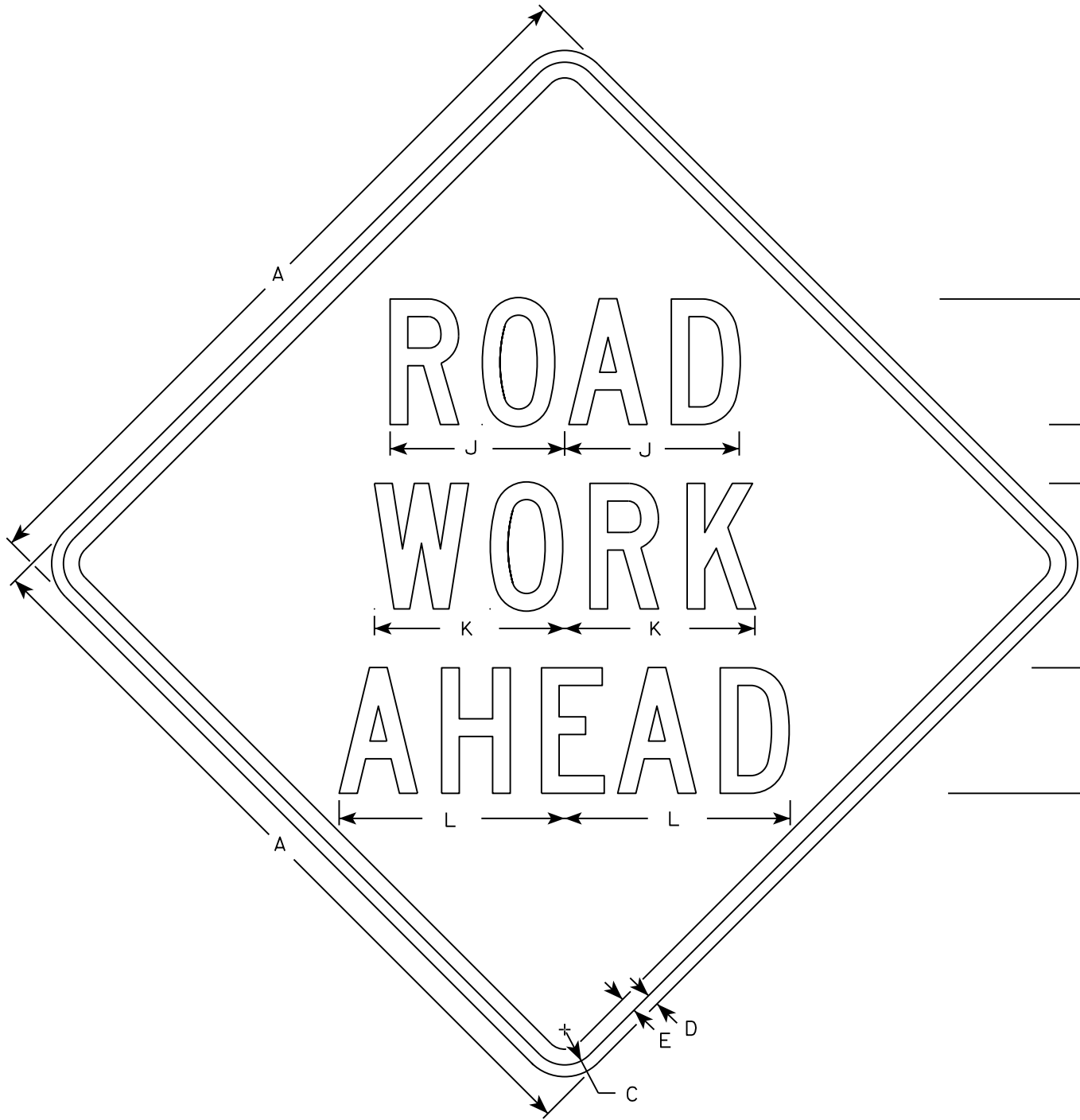
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-----|---|---|-------|---|---|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 48 | 36 | 2 1/4 | 5/8 | 7/8 | 5 | 2 | 8 1/2 | 3 | 8 | 26 3/4 | 12 3/4 | | | | | | | | | | | | | | | 5.56 |
| 2M | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STANDARD SIGN
W14-3

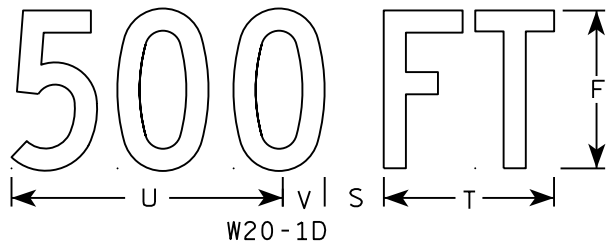
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

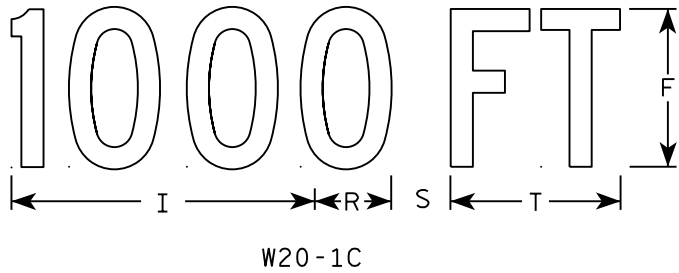
DATE 3/21/17 PLATE NO. W14-3.10



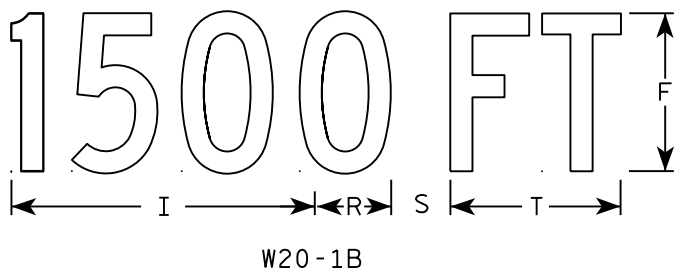
W20-1A



W20-1D



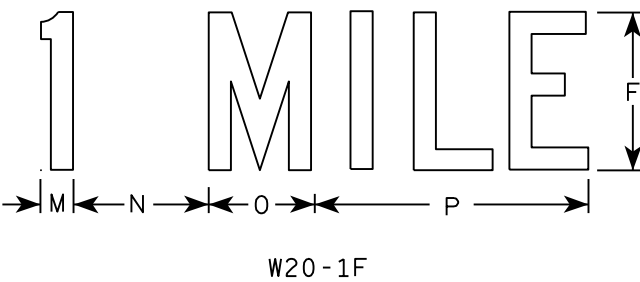
W20-1C



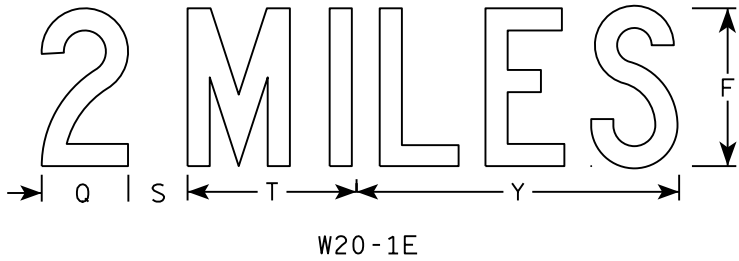
W20-1B



W20-1G



W20-1F



W20-1E

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.

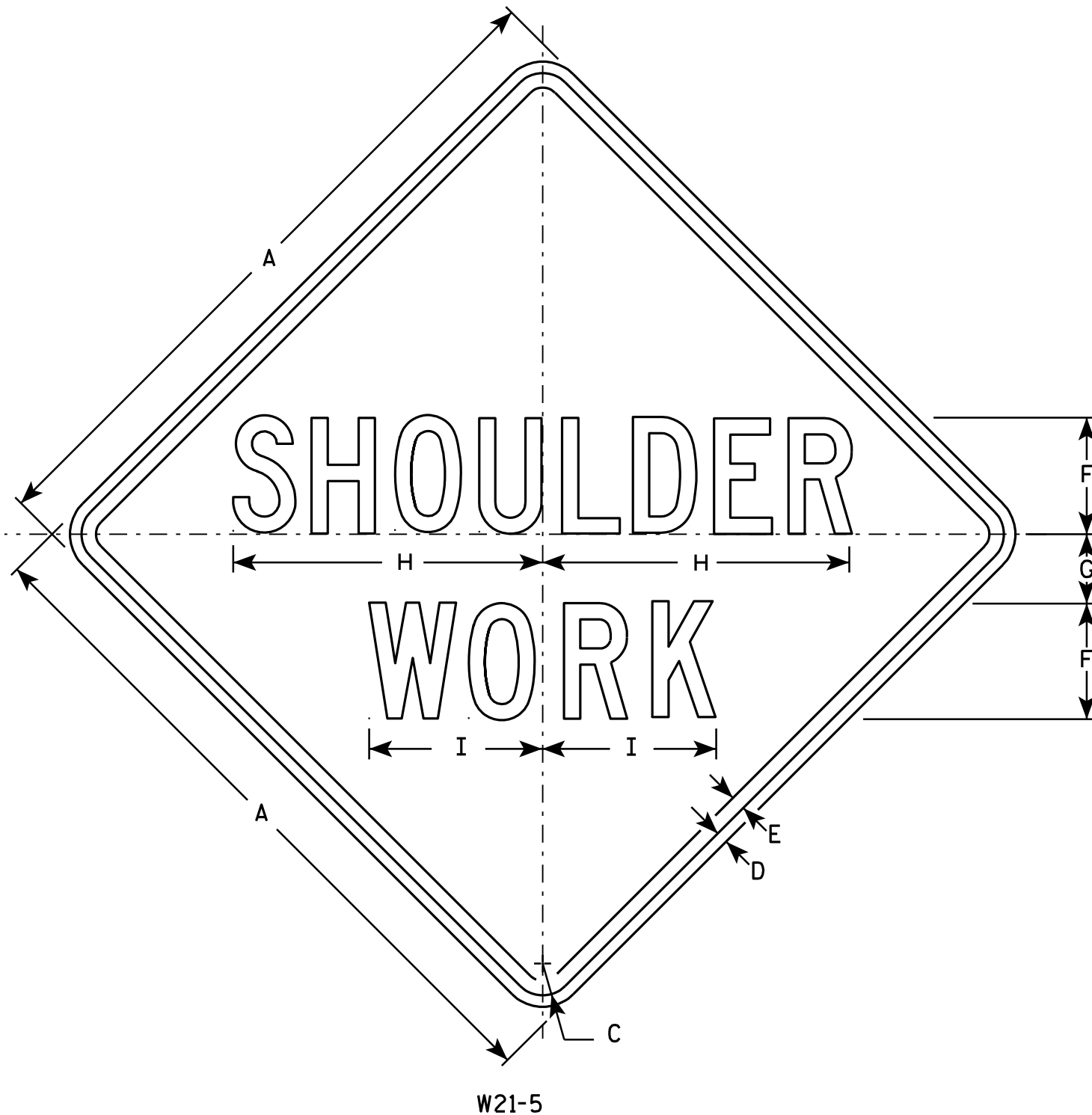
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|-------|--------|---|-----------------|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



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.

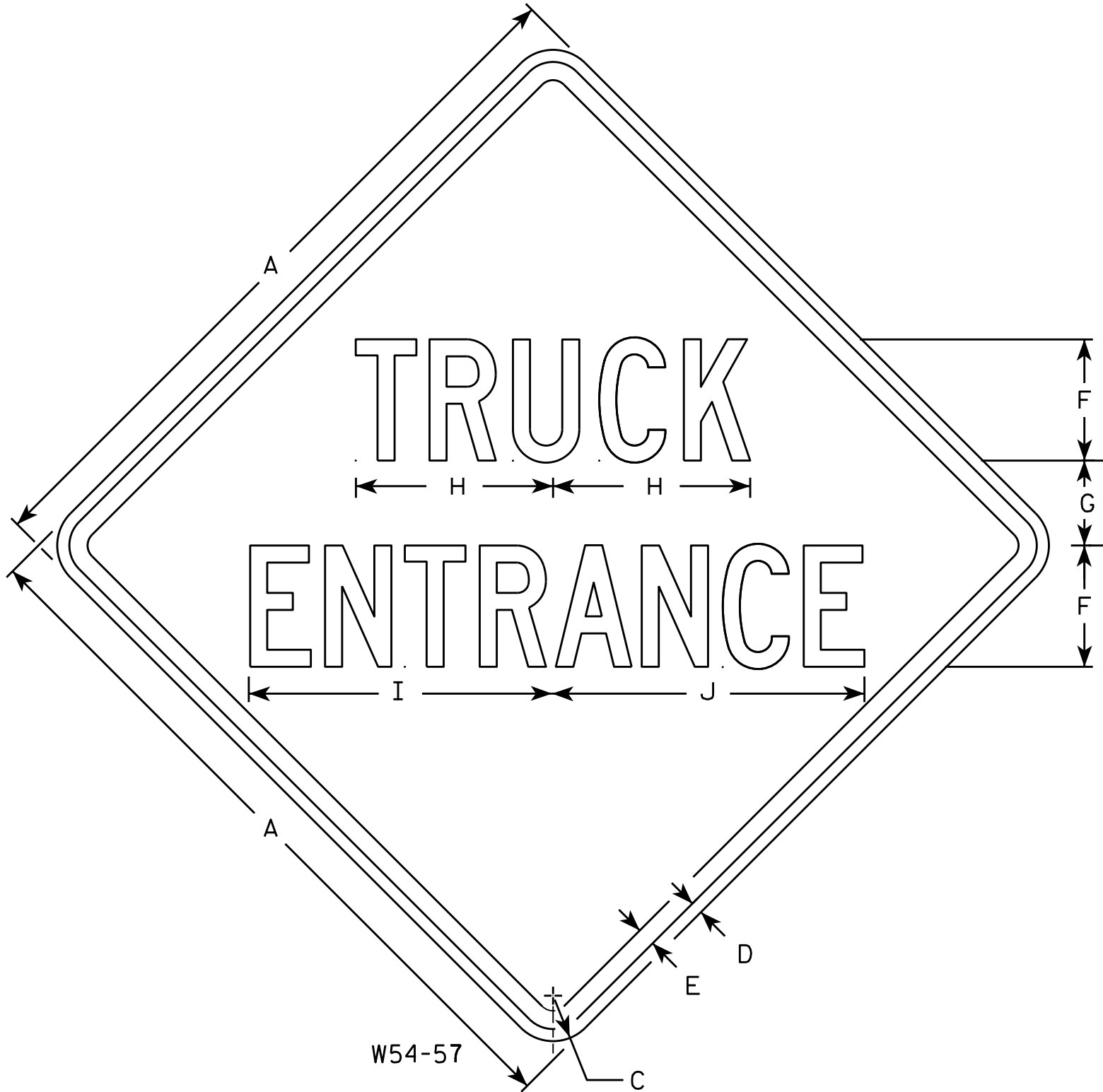
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 24 | | 1 1/8 | 3/8 | 1/2 | 4 | 2 1/2 | 10 3/4 | 6 | | | | | | | | | | | | | | | | | | 4.0 |
| 2S | 30 | | 1 3/8 | 1/2 | 5/8 | 5 | 3 | 13 3/8 | 7 1/2 | | | | | | | | | | | | | | | | | | 6.25 |
| 2M | 30 | | 1 3/8 | 1/2 | 5/8 | 5 | 3 | 13 3/8 | 7 1/2 | | | | | | | | | | | | | | | | | | 6.25 |
| 3 | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 3 1/2 | 16 | 9 | | | | | | | | | | | | | | | | | | 9.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 | 21 3/8 | 11 1/4 | | | | | | | | | | | | | | | | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 | 21 3/8 | 11 1/4 | | | | | | | | | | | | | | | | | | 16.0 |

STANDARD SIGN W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/21/11 PLATE NO. W21-5.5

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. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

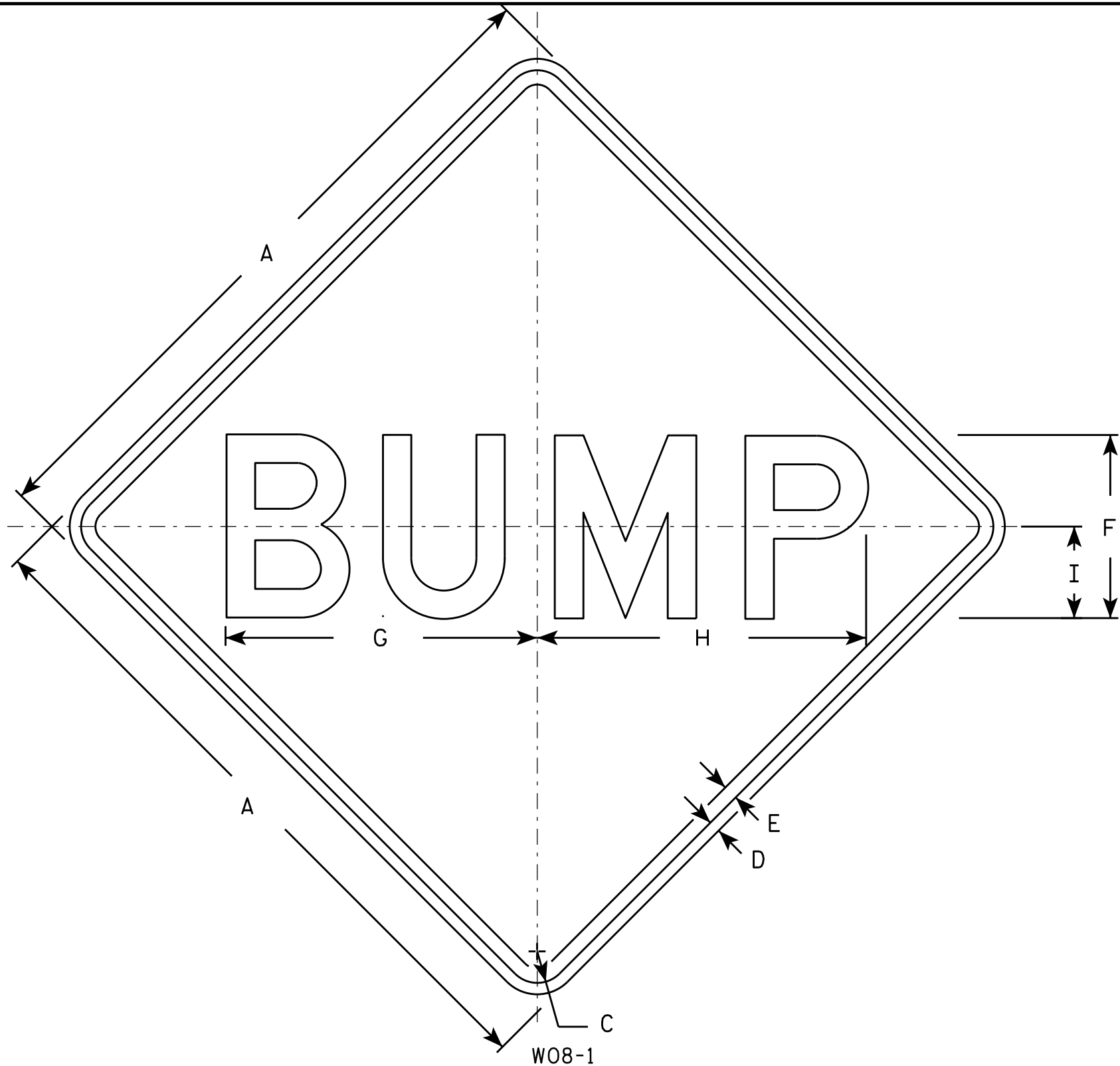
| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|---|-------|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2S | 30 | | 1 3/8 | 1/2 | 5/8 | 5 | 3 1/2 | 8 1/8 | 12 1/2 | 12 7/8 | | | | | | | | | | | | | | | | | 6.25 |
| 2M | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 4 1/4 | 9 5/8 | 15 | 15 3/8 | | | | | | | | | | | | | | | | | 9.00 |
| 3 | 36 | | 1 5/8 | 5/8 | 3/4 | 6 | 4 1/4 | 9 5/8 | 15 | 15 3/8 | | | | | | | | | | | | | | | | | 9.00 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 1/2 | 13 | 20 | 20 5/8 | | | | | | | | | | | | | | | | | 16.00 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

STANDARD SIGN
W54-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-57.9



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 - D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

| SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|----|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 36 | | 1 5⁄8 | 5⁄8 | 3⁄4 | 10 | 16 7⁄8 | 17 7⁄8 | 5 | | | | | | | | | | | | | | | | | | 9.0 |
| 2S | 48 | | 2 1⁄4 | 3⁄4 | 1 | 12 | 20 3⁄8 | 21 5⁄8 | 6 | | | | | | | | | | | | | | | | | | 16.0 |
| 2M | 48 | | 2 1⁄4 | 3⁄4 | 1 | 12 | 20 3⁄8 | 21 5⁄8 | 6 | | | | | | | | | | | | | | | | | | 16.0 |
| 3 | 48 | | 2 1⁄4 | 3⁄4 | 1 | 12 | 20 3⁄8 | 21 5⁄8 | 6 | | | | | | | | | | | | | | | | | | 16.0 |
| 4 | 48 | | 2 1⁄4 | 3⁄4 | 1 | 12 | 20 3⁄8 | 21 5⁄8 | 6 | | | | | | | | | | | | | | | | | | 16.0 |
| 5 | 48 | | 2 1⁄4 | 3⁄4 | 1 | 12 | 20 3⁄8 | 21 5⁄8 | 6 | | | | | | | | | | | | | | | | | | 16.0 |

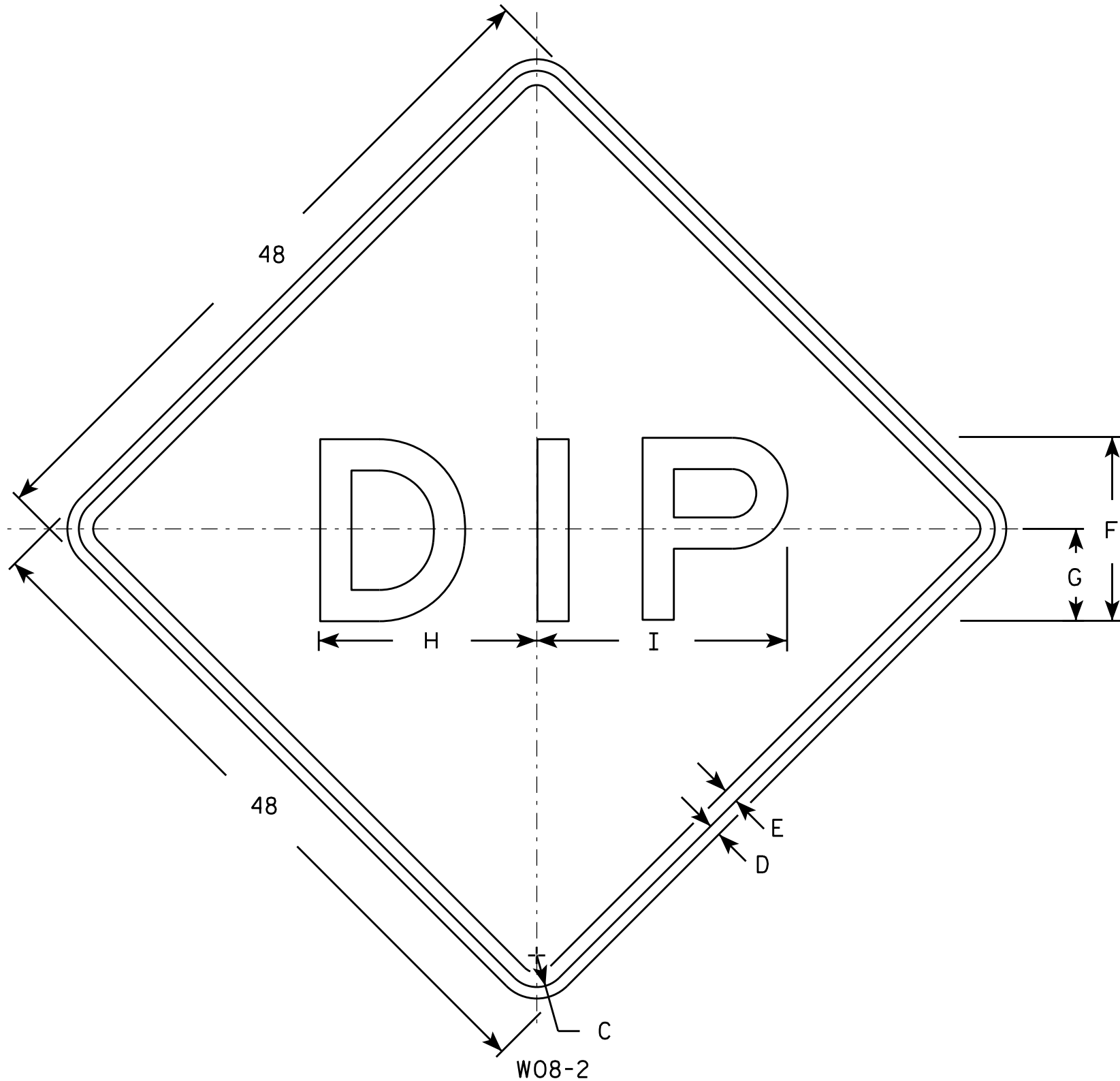
STANDARD SIGN

W08 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W08-1.1



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - 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 sq. ft. |
|------|----|---|-------|-----|-----|----|---|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 36 | | 1 5/8 | 5/8 | 3/4 | 10 | 5 | 11 7/8 | 13 1/2 | | | | | | | | | | | | | | | | | | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 12 | 6 | 14 1/4 | 16 1/4 | | | | | | | | | | | | | | | | | | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 12 | 6 | 14 1/4 | 16 1/4 | | | | | | | | | | | | | | | | | | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 12 | 6 | 14 1/4 | 16 1/4 | | | | | | | | | | | | | | | | | | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 12 | 6 | 14 1/4 | 16 1/4 | | | | | | | | | | | | | | | | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 12 | 6 | 14 1/4 | 16 1/4 | | | | | | | | | | | | | | | | | | 16.0 |

STANDARD SIGN

W08-2

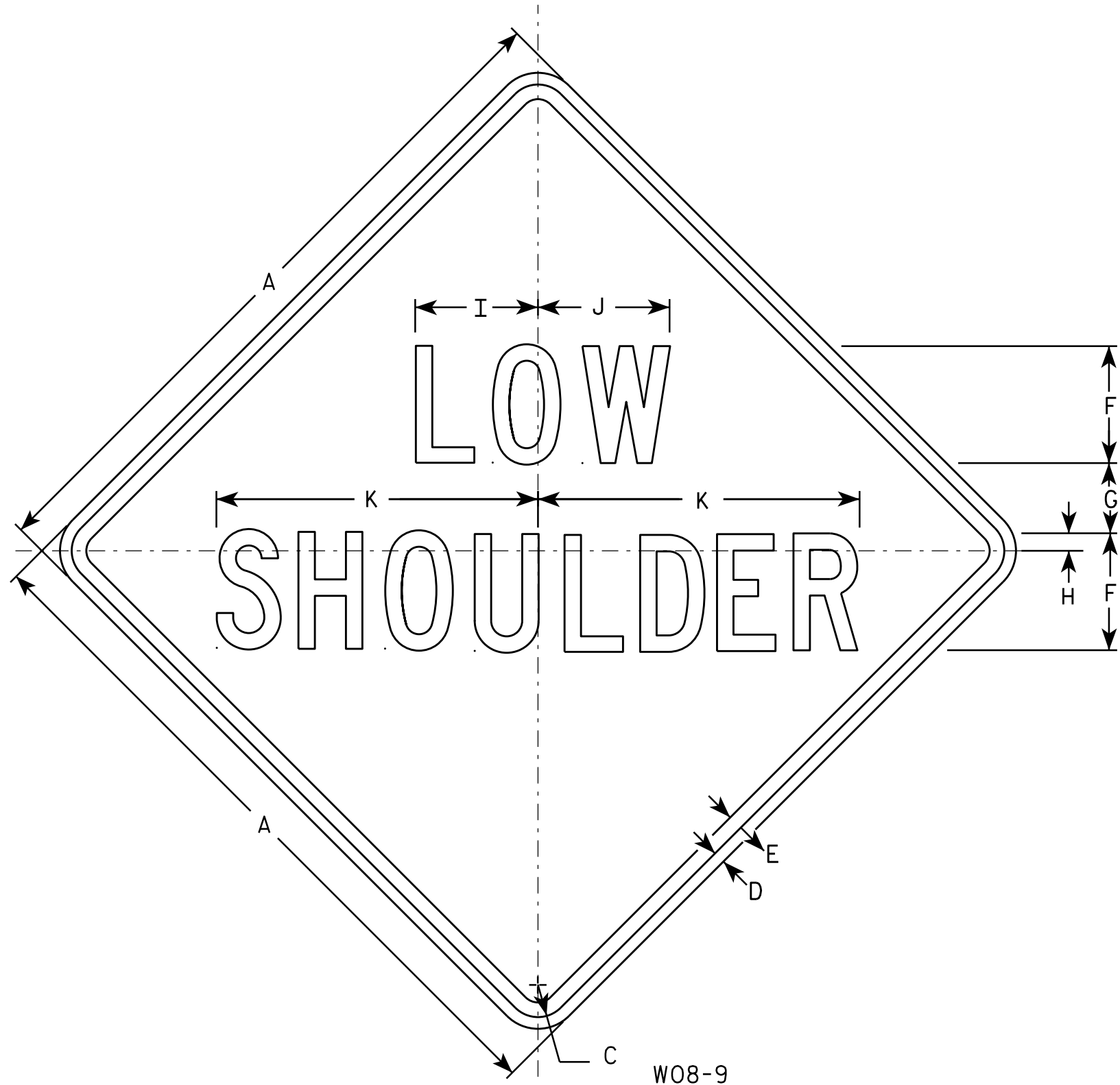
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 11/20/13

PLATE NO. W08-2.1



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - 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 5/8 | 5/8 | 3/4 | 6 | 3 1/2 | 1 | 6 1/4 | 6 3/4 | 16 1/2 | | | | | | | | | | | | | | | | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 | 1 1/4 | 8 1/4 | 9 | 21 7/8 | | | | | | | | | | | | | | | | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 | 1 1/4 | 8 1/4 | 9 | 21 7/8 | | | | | | | | | | | | | | | | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 | 1 1/4 | 8 1/4 | 9 | 21 7/8 | | | | | | | | | | | | | | | | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 | 1 1/4 | 8 1/4 | 9 | 21 7/8 | | | | | | | | | | | | | | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 8 | 5 | 1 1/4 | 8 1/4 | 9 | 21 7/8 | | | | | | | | | | | | | | | | 16.0 |

STANDARD SIGN W08-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 11/20/13 PLATE NO. W08-9.1

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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