

SUP

NOVEMBER 2022

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

TOTAL SHEETS = 16

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C SUPERIOR, WOODLAWN ROAD

42ND ST TO BARDON AVE

LOC STR

DOUGLAS COUNTY

STATE PROJECT NUMBER

8998-00-44

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8998-00-44	WISC 2023063	1

PROJECT ID:

8998-00-44

COUNTY:

DOUGLAS

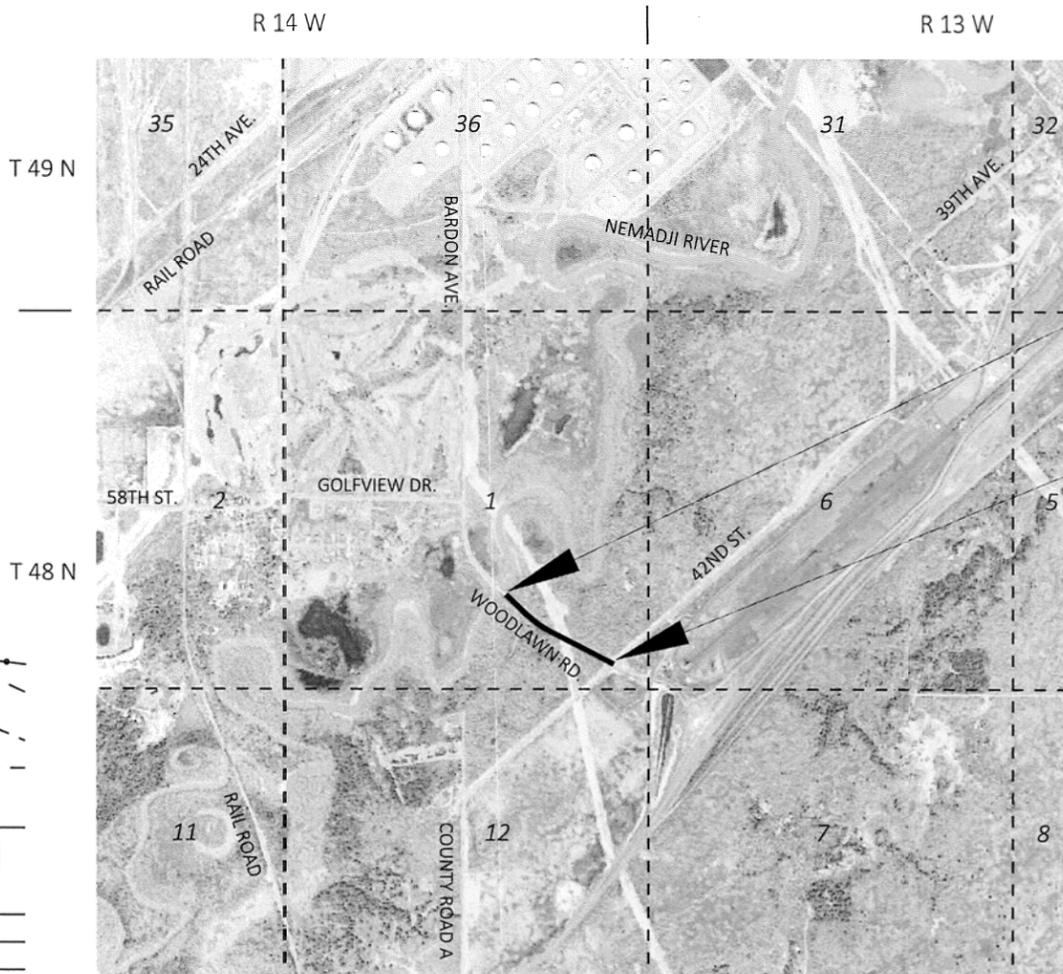


DESIGN DESIGNATION

A.A.D.T.	2022	=	1400
A.A.D.T.	2042	=	1700
D.H.V.		=	255
D.D.		=	50/50
T.		=	10%
DESIGN SPEED		=	30 MPH
ESALS		=	520,000

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
	STORM SEWER
	TELEPHONE
MARSH AREA	WATER
	UTILITY PEDESTAL
	POWER POLE
WOODED OR SHRUB AREA	TELEPHONE POLE



BEGIN PROJECT
STA 100+20
Y = 285486.488
X = 157001.399

END PROJECT
STA 118+87

LAYOUT
SCALE 0 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.354 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DOUGLAS COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ACCEPTED FOR CITY OF SUPERIOR

DATE: 7/18/22
(Signature)

ORIGINAL PLANS PREPARED BY



DATE: 7/18/2022
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	SEH
Designer	SEH
Project Manager	PAULA GROOM
Regional Examiner	TOU YANG
Regional Supervisor	TYLER RONGSTAD

APPROVED FOR THE DEPARTMENT
DATE: 07/18/2022
(Signature)

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GENERAL NOTES

- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.
- HMA PAVEMENT CALCULATIONS ARE BASED ON 112 LBS/SY/IN.
- 5-INCH HMA PAVEMENT SHALL BE CONSTRUCTED IN TWO LAYERS, 2.25-INCH UPPER LAYER TYPE 4 MT 58-34 H, AND A 2.75-INCH LOWER LAYER TYPE 4 MT 58-34 S.
- WHEN THE QUANTITY OF THE ITEMS BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

UTILITY CONTACTS

ENBRIDGE - COMMUNICATION LINE
 DEAN WILL
 10 BARDON AVENUE
 SUPERIOR, WI 54880
 OFFICE PHONE: 715-398-8348
 MOBILE PHONE: 218-390-5228
 EMAIL: DEAN.WILL@ENBRIDGE.COM

SUPERIOR WATER, LIGHT & POWER CO. - ELECTRICITY
 JAMISON MEHLE
 2915 HILL AVENUE
 SUPERIOR, WISCONSIN 54880
 PHONE: 218-393-6391
 EMAIL: JMEHLE@SWLP.COM

SUPERIOR WATER, LIGHT & POWER CO. - GAS
 JAMISON MEHLE
 2915 HILL AVENUE
 SUPERIOR, WISCONSIN 54880
 PHONE: 218-393-6391
 EMAIL: JMEHLE@SWLP.COM

WISDOT CONTACT

NORTHWEST REGION
 PAULA GROOM
 PROJECT MANAGER
 718 W. CLAIREMONT AVE.
 EAU CLAIRE, WI 54701
 PHONE: 715-579-6776
 EMAIL: PAULA.GROOM@DOT.WI.GOV

CITY OF SUPERIOR CONTACT

TODD JANIGO
 PUBLIC WORKS DIRECTOR
 1316 N 14TH STREET
 SUPERIOR, WI 54880
 PHONE: 715-395-7373
 EMAIL: JANIGOT@CI.SUPERIOR.WI.US

DNR LIAISON

NORTHERN REGION
 AMY CRONK
 810 W. MAPLE STREET
 SPOONER, WI 54801
 PHONE: 715-635-4229
 EMAIL: AMY.CRONK@WISCONSIN.GOV

DESIGN CONTACT

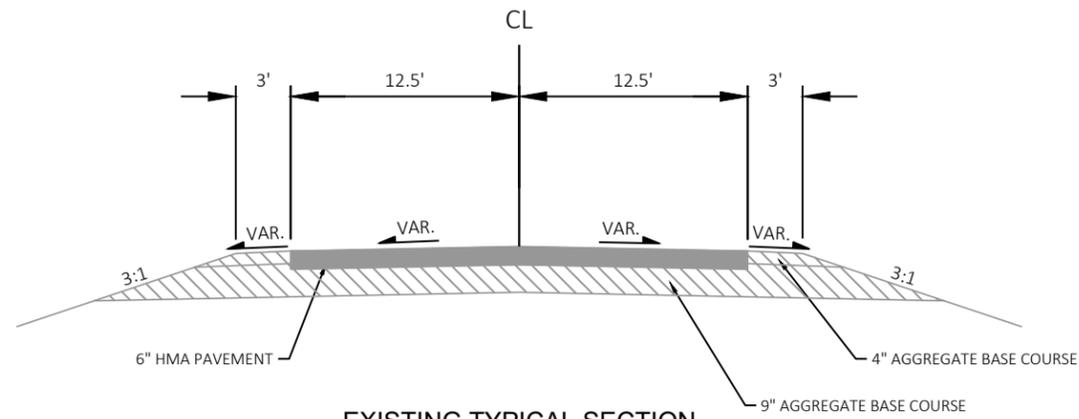
SEH INC.
 MATT BOLF
 PROJECT MANAGER
 418 W. SUPERIOR ST. SUITE 200
 DULUTH, MN 55802-1512
 PHONE: 218-279-3025
 EMAIL: MBOLF@SEHINC.COM



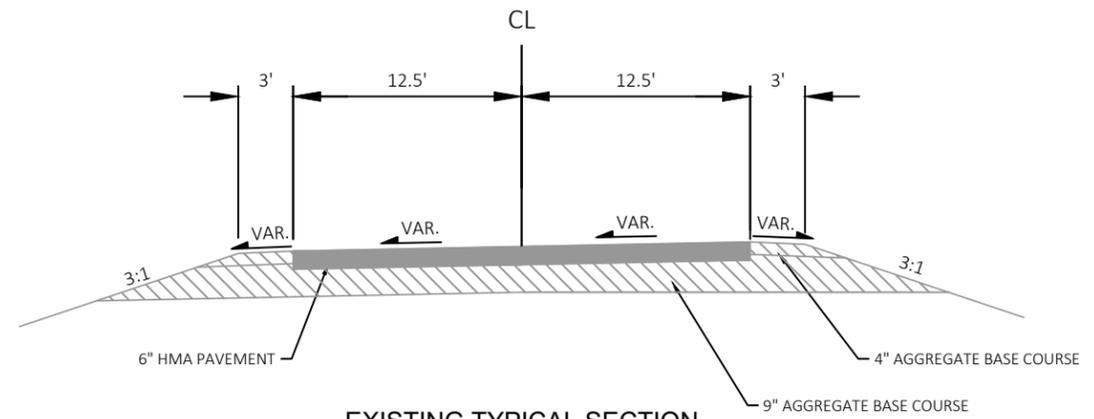
PROJECT NO: 8998-00-44	HWY: LOC STR	COUNTY: DOUGLAS	GENERAL NOTES	SHEET	E
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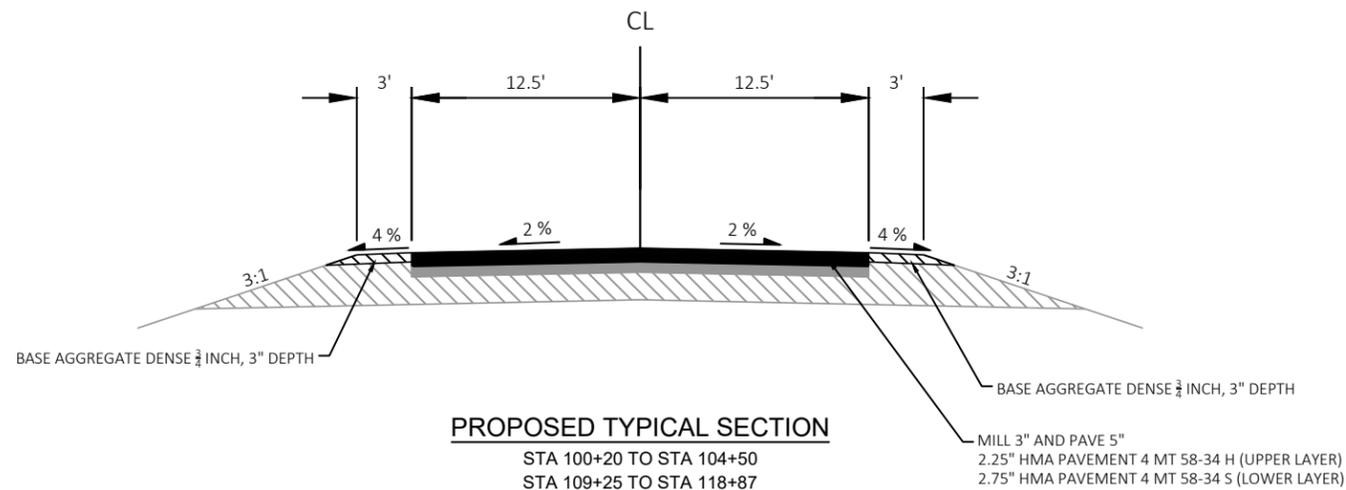
PROJECT NO: 8998-00-44	HWY: LOC STR	COUNTY: DOUGLAS	PROJECT OVERVIEW	SHEET	E
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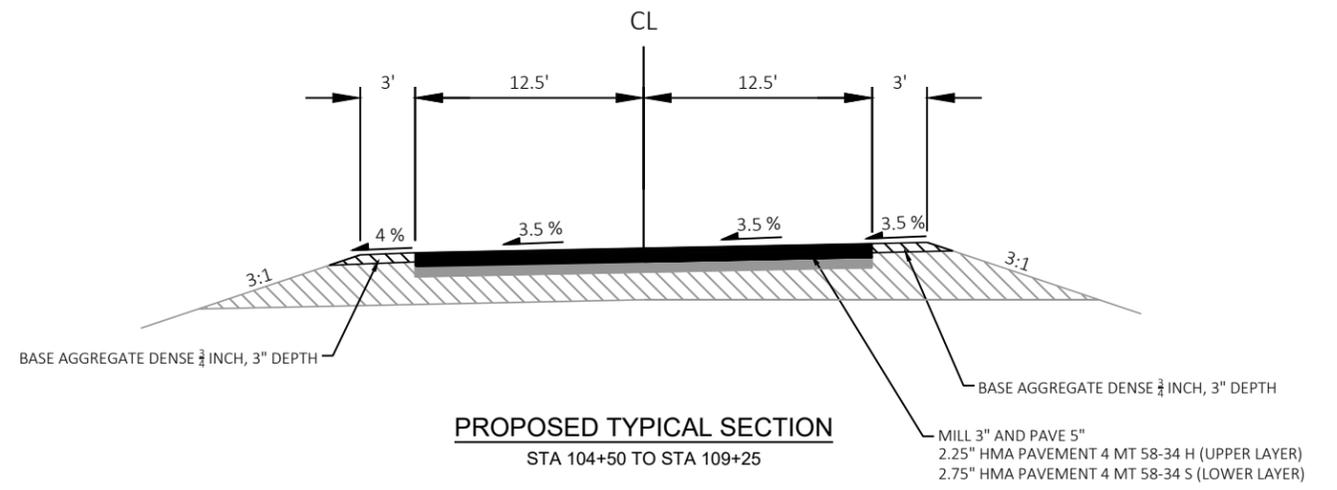
EXISTING TYPICAL SECTION
 STA 100+20 TO STA 104+50
 STA 109+25 TO STA 118+87



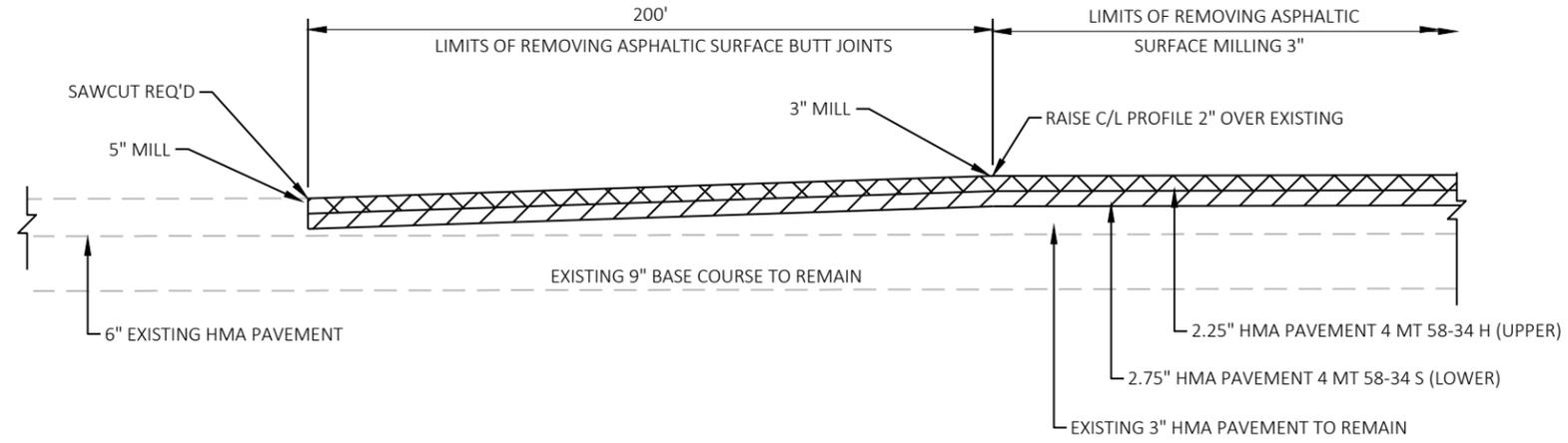
EXISTING TYPICAL SECTION
 STA 104+50 TO STA 109+25



PROPOSED TYPICAL SECTION
 STA 100+20 TO STA 104+50
 STA 109+25 TO STA 118+87

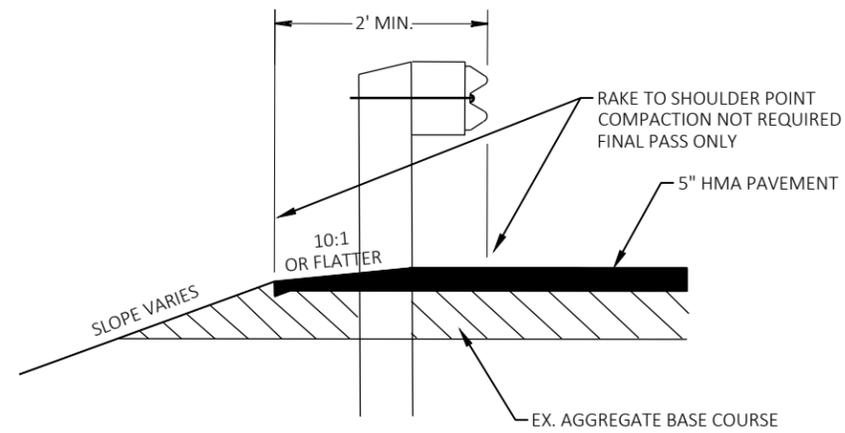


PROPOSED TYPICAL SECTION
 STA 104+50 TO STA 109+25

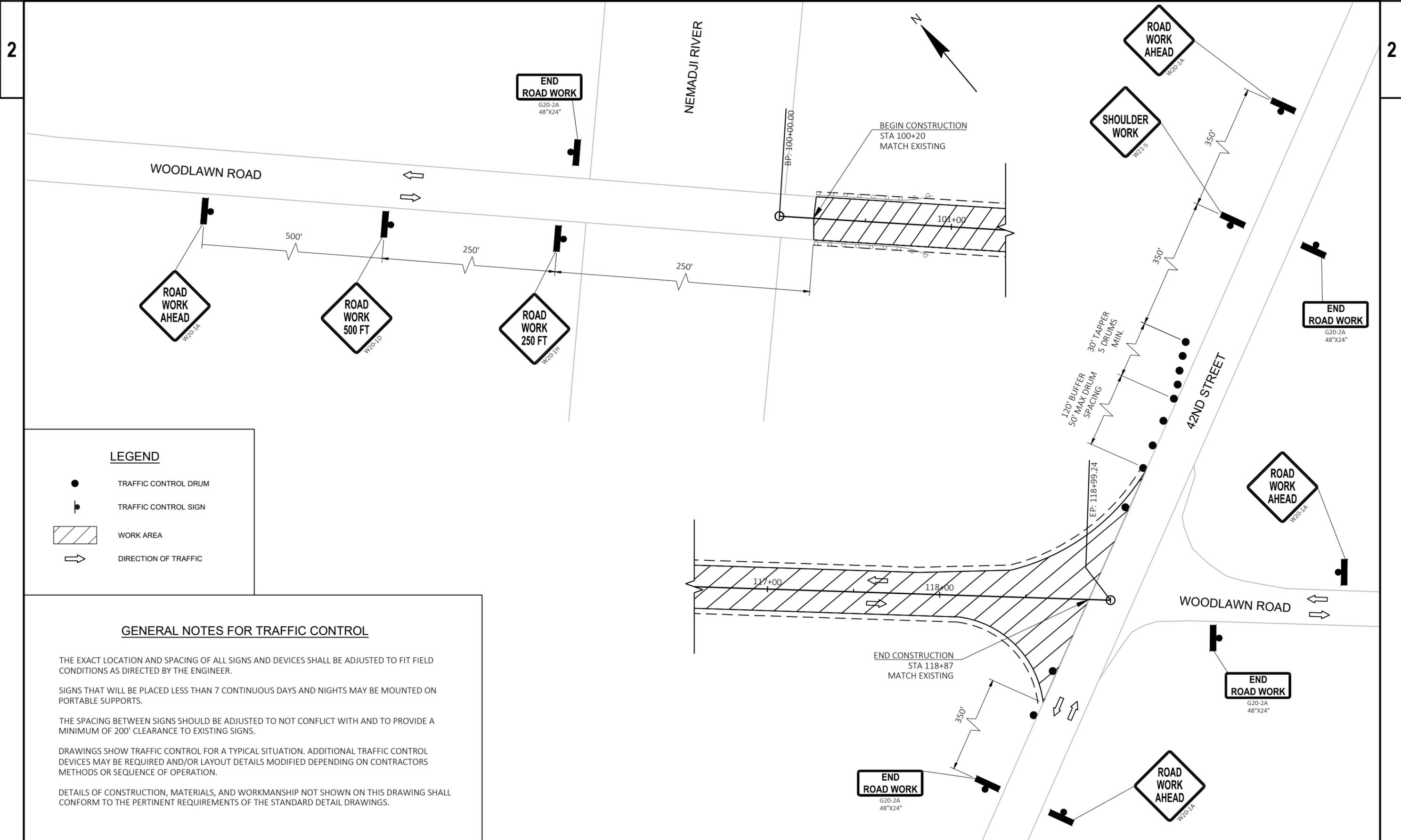


REMOVING ASPHALTIC SURFACE BUTT JOINT

STA 100+20 - STA 102+20
STA 116+87 - STA 118+87



ASPHALTIC SHOULDER AT GUARD RAIL



LEGEND

- TRAFFIC CONTROL DRUM
- ⌚ TRAFFIC CONTROL SIGN
- ▨ WORK AREA
- ➡ DIRECTION OF TRAFFIC

GENERAL NOTES FOR TRAFFIC CONTROL

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200' CLEARANCE TO EXISTING SIGNS.

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 SEQUENCE OF OPERATION.

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

Estimate Of Quantities

8998-00-44

Line	Item	Item Description	Unit	Total	Qty
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,370.000	1,370.000
0004	204.0120	Removing Asphaltic Surface Milling	SY	4,110.000	4,110.000
0006	213.0100	Finishing Roadway (project) 01. 8998-00-44	EACH	1.000	1.000
0008	305.0110	Base Aggregate Dense 3/4-Inch	TON	240.000	240.000
0010	455.0605	Tack Coat	GAL	665.000	665.000
0012	460.2000	Incentive Density HMA Pavement	DOL	1,010.000	1,010.000
0014	460.6244	HMA Pavement 4 MT 58-34 S	TON	860.000	860.000
0016	460.6444	HMA Pavement 4 MT 58-34 H	TON	710.000	710.000
0018	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8998-00-44	EACH	1.000	1.000
0020	619.1000	Mobilization	EACH	1.000	1.000
0022	624.0100	Water	MGAL	2.400	2.400
0024	642.5001	Field Office Type B	EACH	1.000	1.000
0026	643.0300	Traffic Control Drums	DAY	104.000	104.000
0028	643.0900	Traffic Control Signs	DAY	88.000	88.000
0030	643.5000	Traffic Control	EACH	1.000	1.000
0032	646.1020	Marking Line Epoxy 4-Inch	LF	7,220.000	7,220.000
0034	650.8000	Construction Staking Resurfacing Reference	LF	1,850.000	1,850.000
0036	650.9911	Construction Staking Supplemental Control (project) 01. 8998-00-44	EACH	1.000	1.000
0038	690.0150	Sawing Asphalt	LF	150.000	150.000
0040	740.0440	Incentive IRI Ride	DOL	1,420.000	1,420.000
0042	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	200.000	200.000
0044	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	200.000	200.000

REMOVE ASPHALTIC SURFACE BUTT JOINTS - 204.0115

CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	100+20	-	102+20	BOP	560	
0010	116+87	-	118+87	EOP	810	
TOTAL					1370	

REMOVE ASPHALTIC MILLING - 204.0120

CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	102+20	-	116+87	RT/LT	4,950	
TOTAL					4110	

BASES AND SUBBASES

CATEGORY	STATION	TO	STATION	LOCATION	TON	MGAL
					305.0110 BASE AGGREGATE DENSE 3/4-INCH	624.0100 WATER
0010	100+20	-	118+87	LT	120	1.2
0010	100+20	-	118+87	RT	120	1.2
TOTAL					240	2.4

MARKING LINE EPOXY 4-INCH - 646.1020

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	100+20	-	118+25	CL	3610	DOUBLE YELLOW
0010	100+20	-	118+25	LT	1805	WHITE
0010	100+20	-	118+25	RT	1805	WHITE
TOTAL					7220	

WATER - 624.0100

CATEGORY	STATION	TO	STATION	LOCATION	MGAL	REMARKS
0010	100+20	-	118+87	PROJECT	2.4	
TOTAL					2.4	

HMA PAVEMENT AND TACK COAT

CATEGORY	STATION	TO	STATION	LOCATION	4 MT 58-34 H (UPPER LAYER 2.25 INCH)	4 MT 58-34 S (LOWER LAYER 2.75 INCH)	455.0605 - TACK COAT	REMARKS
					TON	TON	GAL	
0010	100+20	-	118+87	PROJECT	700	850	660	
0010	100+20	-	118+87	DRIVES	10	10	5	
TOTAL					710	860	665	

TRAFFIC CONTROL

CATEGORY	LOCATION	SIGN CODE	MESSAGE	SERVICE PERIOD DAYS	643.0300 TRAFFIC CONTROL DRUMS:		643.0900 TRAFFIC CONTROL SIGNS:		643.5000 TRAFFIC CONTROL:
					NO.	DAY	NO.	DAY	EACH
0010	PROJECT	W20-1-A	ROAD WORK AHEAD	8	---	---	4	32	---
0010	PROJECT	W20-1 (MOD)	ROAD WORK 250 FT	8	---	---	1	8	---
0010	PROJECT	W20-1-D	ROAD WORK 500 FT	8	---	---	1	8	---
0010	PROJECT	W21-5	SHOULDER WORK	8	---	---	1	8	---
0010	PROJECT	G20-2A	END ROAD WORK	8	---	---	4	32	---
0010	EOP	---	---	8	13	104	---	---	---
0010	PROJECT	---	---	---	---	---	---	---	1
TOTAL							104	88	1

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	LF	650.8000 RESURFACING REFERENCE:	650.9911 SUPPLEMENTAL CONTROL:	REMARKS
0010	100+20	-	118+87	PROJECT	1,850		1	
TOTAL					1,850		1	

SAWING ASPHALT - 690.0150

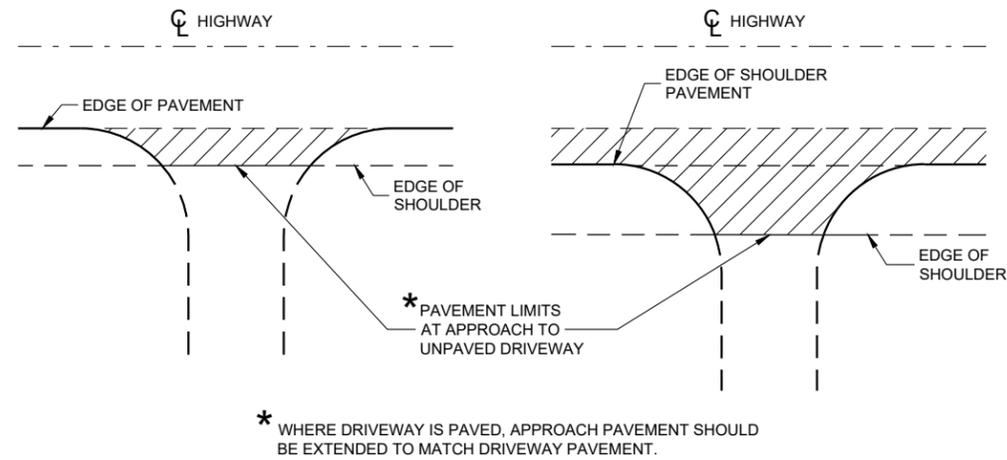
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	100+20	-	118+87	PROJECT	150	
TOTAL					150	



PROJECT NO: 8998-00-44	HWY: LOC STR	COUNTY: DOUGLAS	PLAN SHEET	SHEET	E
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Standard Detail Drawing List

08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M. P. H. OR LESS
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

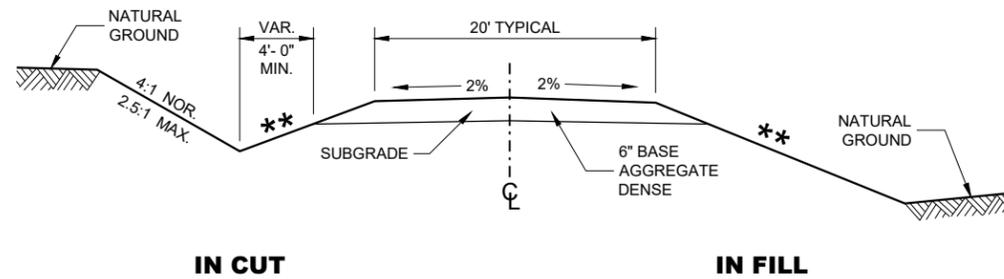


PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

* WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

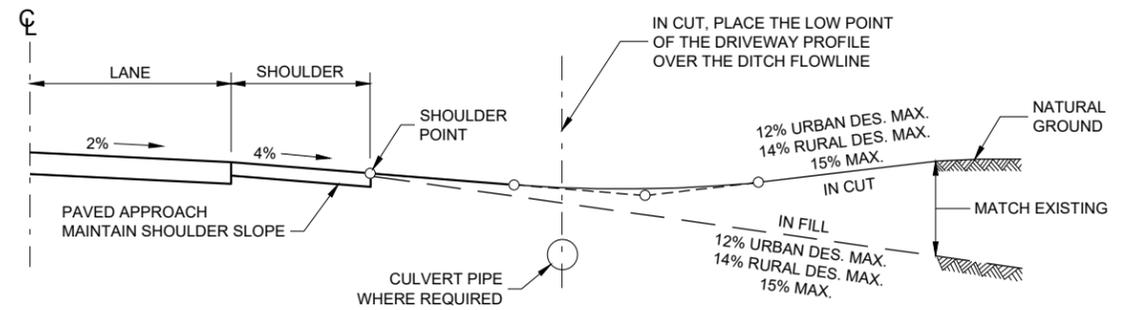
**RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)**



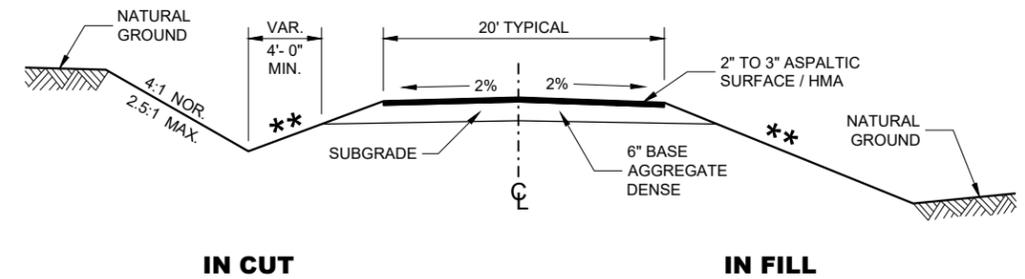
**TYPICAL CROSS SECTION FOR
PRIVATE DRIVE OR FIELD ENTRANCE
AGGREGATE SURFACE**

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



TYPICAL DRIVEWAY PROFILES



**TYPICAL CROSS SECTION FOR
PRIVATE DRIVE OR FIELD ENTRANCE
ASPHALTIC SURFACE**

DRIVEWAYS WITHOUT CURB AND GUTTER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED December 2017 DATE	/s/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA	

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

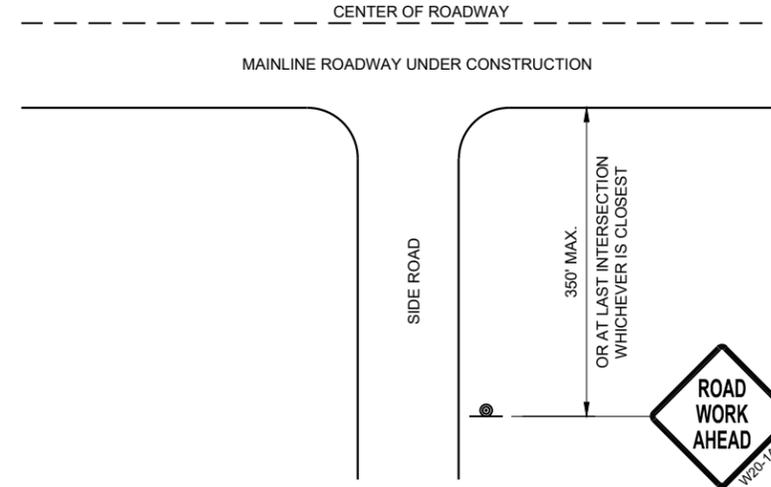
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

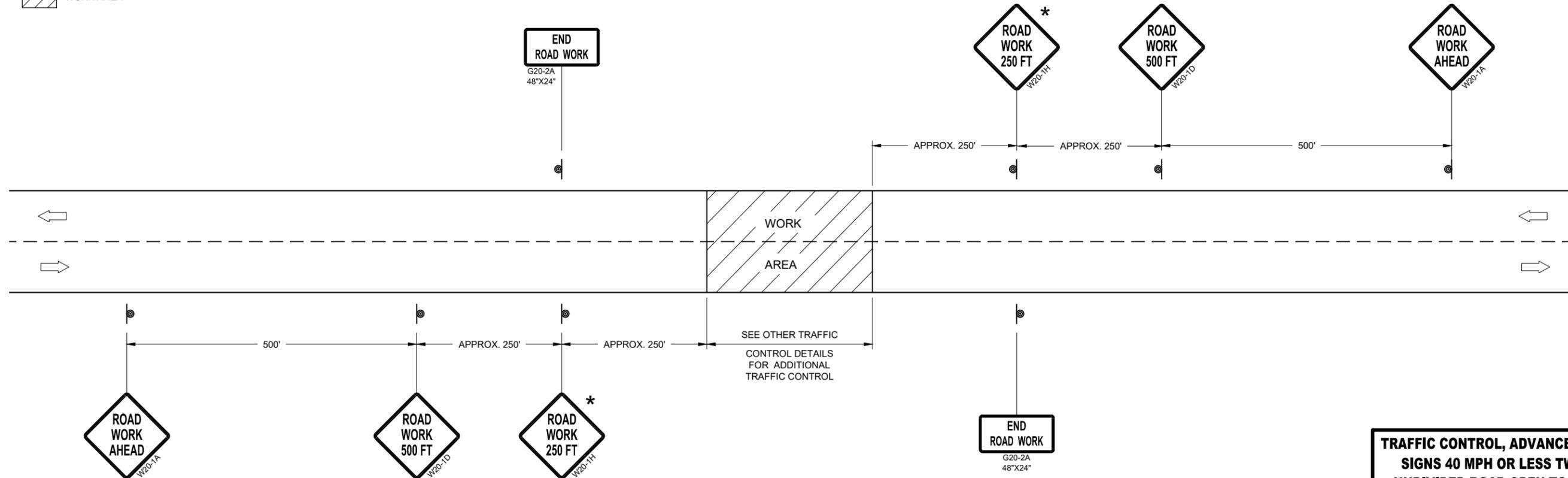
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

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



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

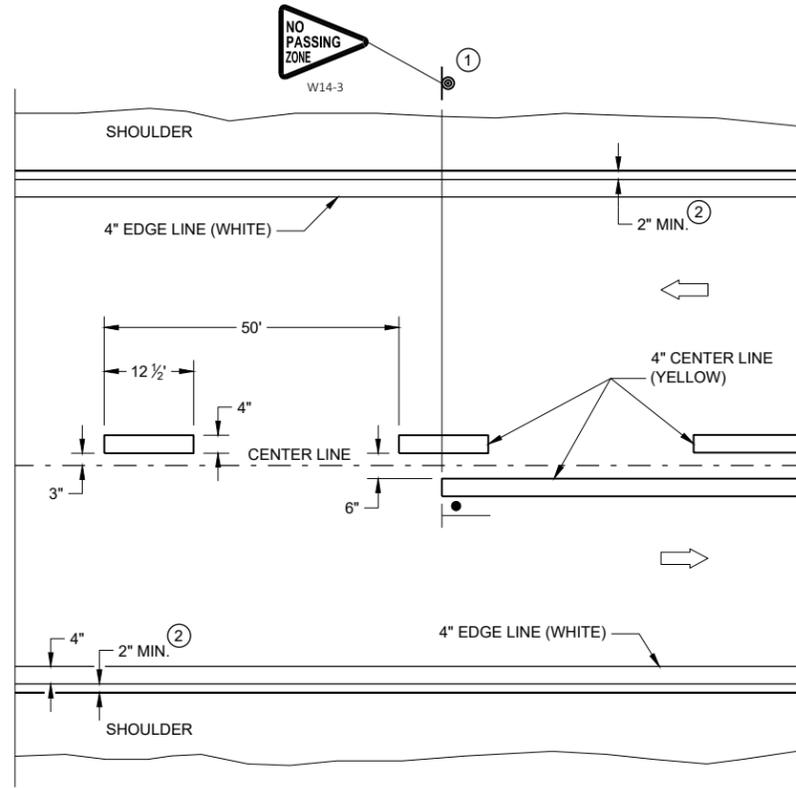
GENERAL NOTES

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

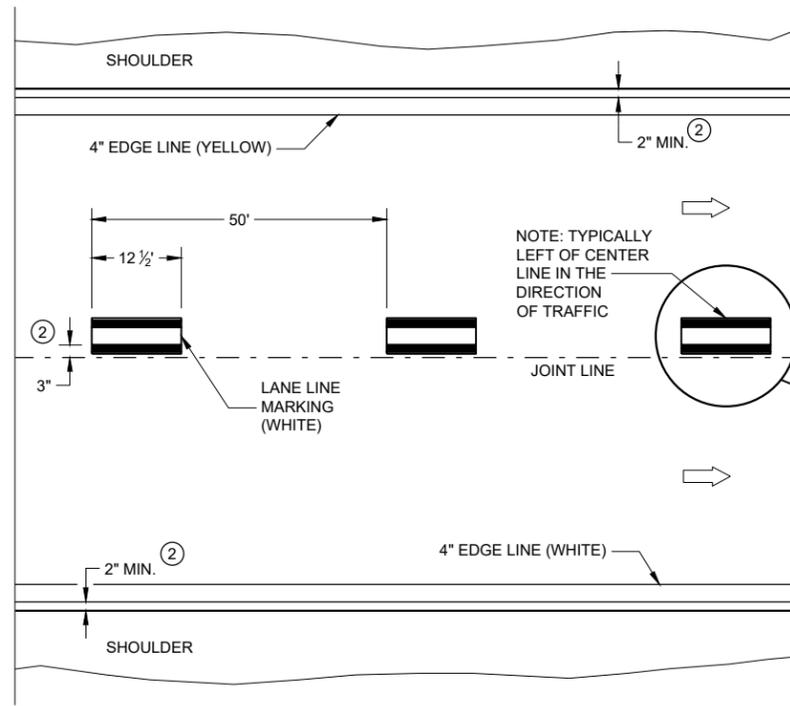
- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

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

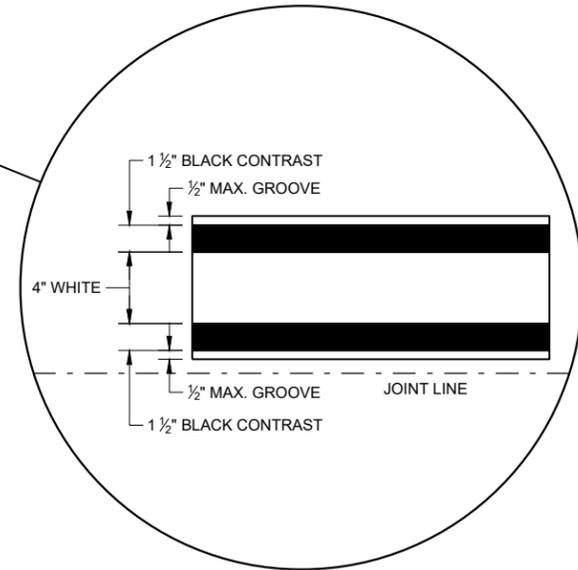


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



6

6

SDD 15C08 - 21a

SDD 15C08 - 21a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2022 /S/ Jeannie Silver
STATEWIDE SIGNING AND MARKING ENGINEER

FHWA

LEGEND

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

GENERAL NOTES

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

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

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

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

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

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

FLAGGING

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

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

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

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

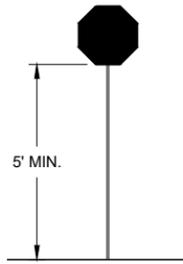
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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



STOP/SLOW PADDLE ON SUPPORT STAFF

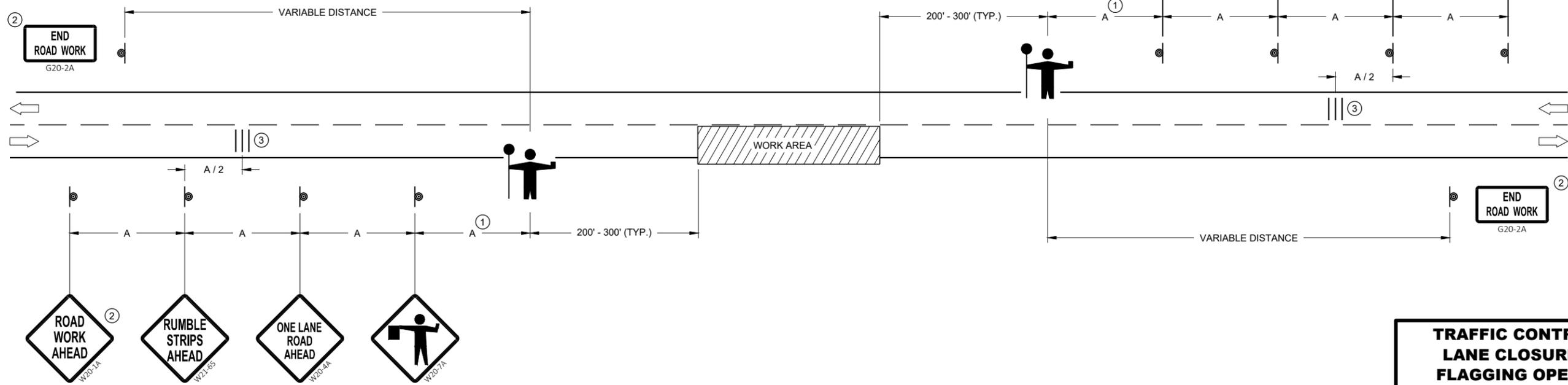
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



W03-4

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

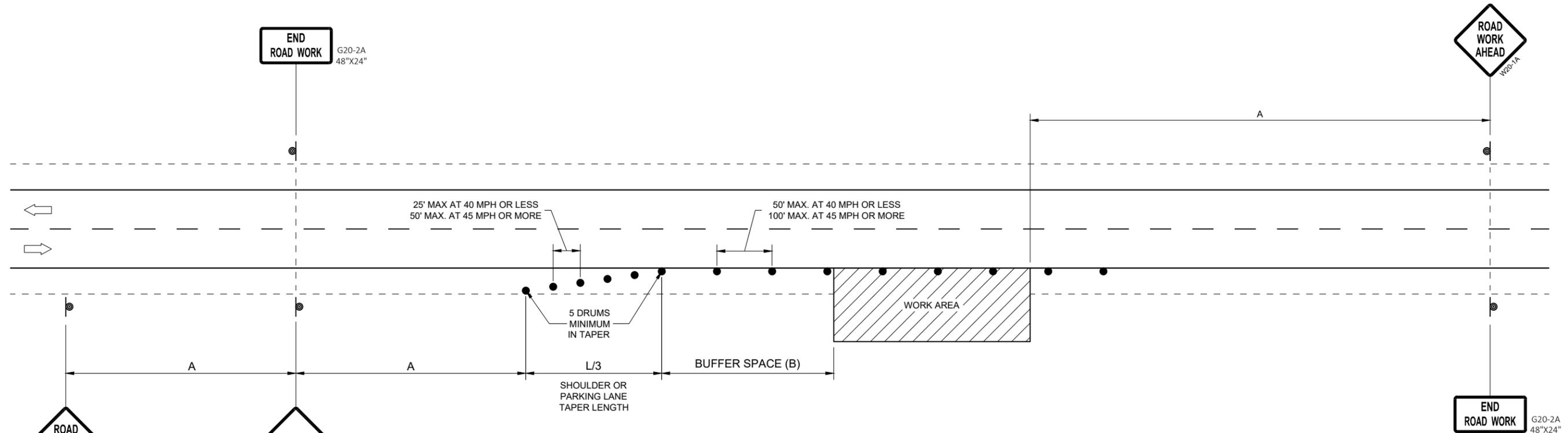
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

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POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

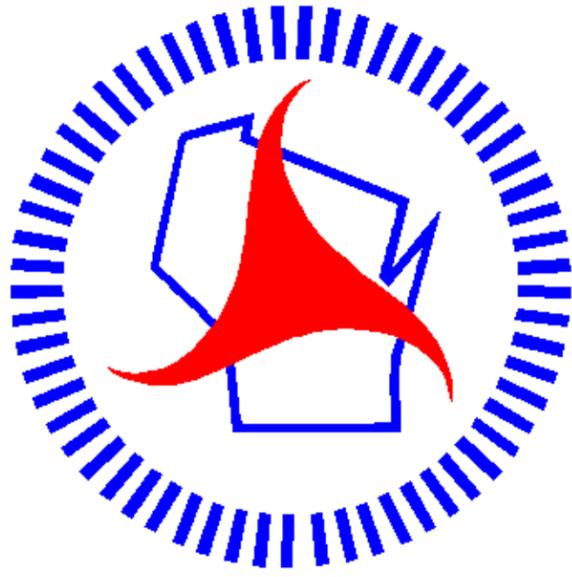
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

SDD 15D28 - 04

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