

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. 8	Computer Earthwork Data
Section No. 8	Cross Sections

TOTAL SHEETS = 50

PROJECT LOCATION



52

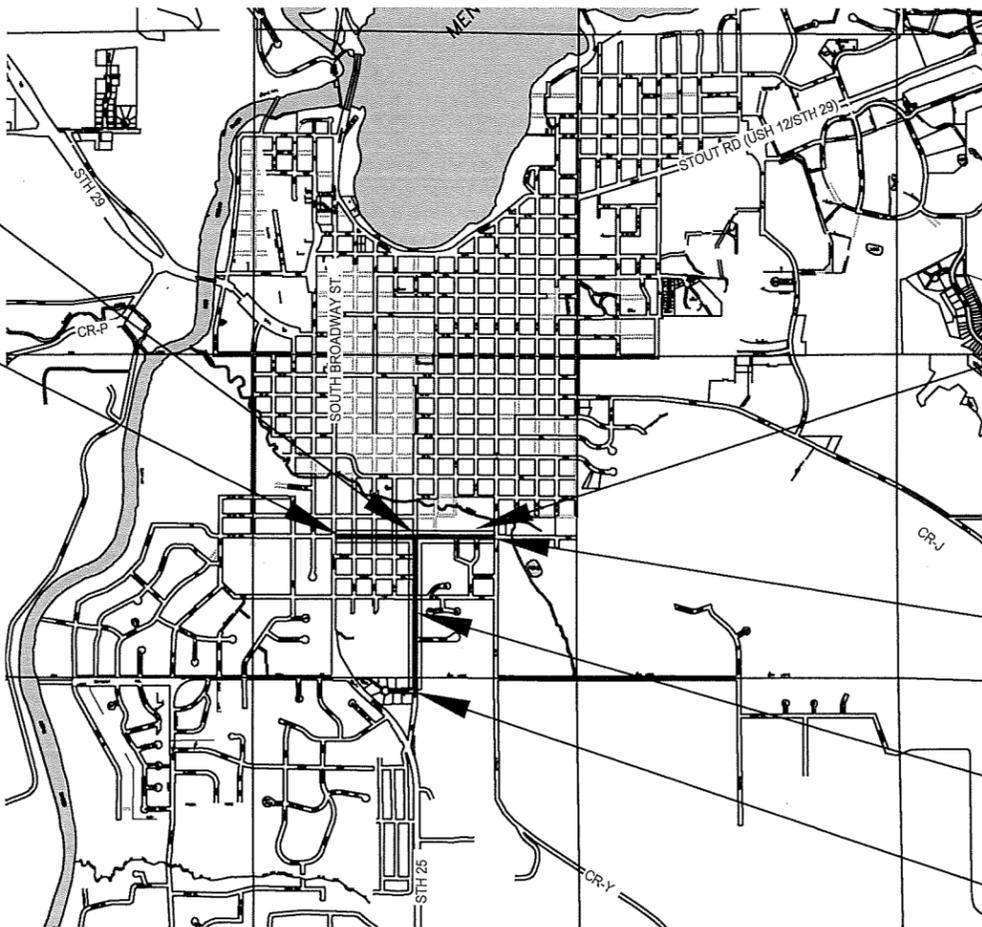
DESIGN DESIGNATION	21st	5TH
A.A.D.T.	2023 = 3919	3060
A.A.D.T.	2043 = 4396	3381
D.H.V.	= 550	422
D.D.	= 50/50	50/50
T.	= 5%	5%
DESIGN SPEED	= 30 MPH	30 MPH
ESALS	= 460,000	

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

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

ROCK
LABEL
95.36
CR-P
CR-J
CR-Y
W
T
G
FO
E



END PROJECT
STA 326+35.27
Y = 166107.3250
X = 162176.9750

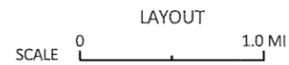
BEGIN PROJECT
STA 219+67.00
Y = 166079.9248
X = 160916.6099

21ST AVENUE EAST
PROJECT LOCATION

END PROJECT
STA 245+12.86
Y = 166062.0038
X = 163462.3901

5TH STREET EAST
PROJECT LOCATION

BEGIN PROJECT
STA 300+43.70
Y = 163516.0061
X = 162154.8489



TOTAL NET LENGTH OF CENTERLINE = 0.973 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DUNN 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 (1991). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C MENOMONIE, 21ST AVE & 5TH ST E

21ST AVE & 5TH ST E

LOC STR

DUNN COUNTY

STATE PROJECT NUMBER

7996-00-89

STATE PROJECT

7996-00-89

FEDERAL PROJECT

PROJECT

WISC 2023054

CONTRACT

1

ACCEPTED FOR
CITY OF MENOMONIE

DATE: 27 Jul 22
RRC
(Signature)

DIRECTOR OF PUBLIC
WORKS
(Title)

ORIGINAL PLANS PREPARED BY

Cedar
corporation

MENOMONIE - MADISON - GREEN BAY - CEDARBURG
www.cedarcorp.com
800-472-7372



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	CEDAR CORPORATION
Surveyor	CEDAR CORPORATION
Designer	MATTHEW J. THORNSEN, PE
Project Manager	TOU YANG, PE
Regional Examiner	TYLER RONGSTAD, PC
Regional Supervisor	

APPROVED FOR THE DEPARTMENT
DATE: 7/27/2022
[Signature]
(Signature)

E

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

BEARINGS REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DUNN COUNTY.

WHEN THE QUANTITY OF ITEM BASE LAYER OR SURFACE LAYER IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS OF THE MATERIAL THAT IS SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER.

STANDARD ABBREVIATIONS

Table with 4 columns of abbreviations and their corresponding full names, including terms like ABUTMENT, AGGREGATE, ANNUAL AVERAGE DAILY TRAFFIC, etc.

DNR CONTACT

DNR WEST CENTRAL REGION HEADQUARTERS
1300 WEST CLAIRMONT AVENUE
EAU CLAIRE, WI 54701
ATTN: AMY LESIK
PH: (715) 836-6571
EMAIL: amy.lesik@wisconsin.gov

DESIGN CONSULTANT CONTACT

CEDAR CORPORATION
604 WILSON AVENUE
MENOMONIE, WI 54751
ATTN: KEVIN OIUM, P.F.
PH: (715) 235-9081
EMAIL: kevin.oium@cedarcorp.com

CITY OF MENOMONIE

PUBLIC WORKS
800 WILSON AVENUE
MENOMONIE, WI 54751
ATTN: RANDY EIDE, DIRECTOR
PH: (715) 232-2207
EMAIL: reide@menomonie-wi.gov

WATER DEPARTMENT

800 WILSON AVENUE
MENOMONIE, WI 54751
ATTN: JERRY HOYT
PH: (715) 232-2395
EMAIL: jhoyt@menomonie-wi.gov

STREET DEPARTMENT

800 WILSON AVENUE
MENOMONIE, WI 54751
ATTN: DAVE FRANK
PH: (715) 232-2302
EMAIL: dfrank@menomonie-wi.gov

WASTEWATER DEPARTMENT

800 WILSON AVENUE
MENOMONIE, WI 54751
ATTN: PAUL STERK
PH: (715) 232-2175
EMAIL: psterk@menomonie-wi.gov

UTILITY CONTACTS

COMMUNICATION
AT&T DISTRIBUTION
304 SOUTH DEWEY STREET
EAU CLAIRE, WI 54701
ATTN: RICK T. PODOLAK
PH: (715) 839-5565
EMAIL: rp4514@att.com

COMMUNICATION

CCI SYSTEMS/ASIREA
105 KENT STREET
IRON MOUNTAIN, MI 49801
ATTN: ANDREW J. HEIGL
PH: (906) 776-7609
EMAIL: andy.heigl@astreaconnect.com

COMMUNICATION

WEST WISCONSIN TELCOM
912 CRESCENT STREET
MENOMONIE, WI 54751
ATTN: BRADLEY J. SCHMIDTKNECHT, P.E.
PH: (715) 231-0504
EMAIL: brads@wwt.coop

COMMUNICATION

SPECTRUM (CHARTER) COMMUNICATIONS
1201 MCCANN DRIVE
ALTOONA, WI 54720
ATTN: SHANE YODER
PH: (715) 831-8940, ext 51113
EMAIL: shane.yoder@charter.com

UTILITY CONTACTS

ELECTRIC
XCCEL ENERGY COOPERATIVE
320 HELLER ROAD
MENOMONIE, WI 54751
ATTN: MEGAN BOLDIG, DESIGNER
PH: (715) 232-7412
EMAIL: megan.m.boldig@xcelenergy.com

GAS

XCCEL ENERGY COOPERATIVE
320 HELLER ROAD
MENOMONIE, WI 54751
ATTN: AMBER J. MANKA
PH: (715) 797-0407
EMAIL: amber.j.manka@xcelenergy.com



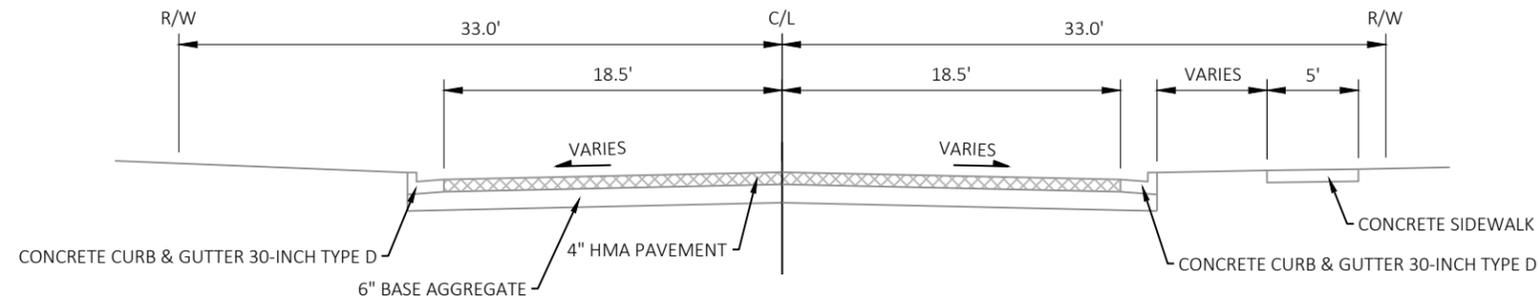
Dial 811 or (800)242-8511

www.DiggersHotline.com
**DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS.

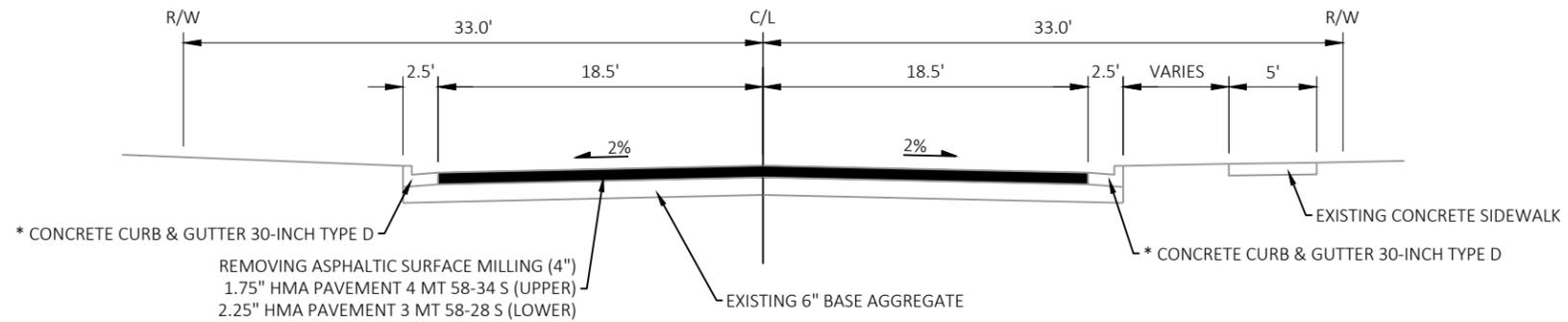
RUNOFF COEFFICIENT TABLE

Table with columns for LAND USE, HYDROLOGIC SOIL GROUP (A, B, C, D), and SLOPE RANGE (PERCENT). Rows include LAND USE, ROW CROPS, MEDIAN STRIP-TURF, SIDE SLOPE TURF, PAYMENT, ASPHALT, CONCRETE, BRICK, DRIVES, WALKS, ROOFS, GRAVEL ROADS, SHOULDERS.

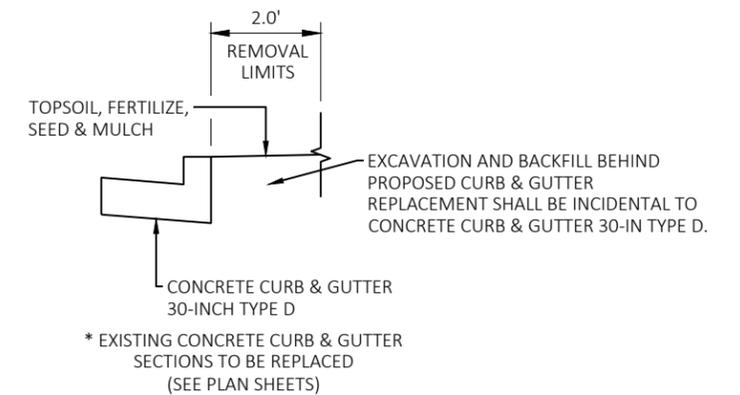
TOTAL PROJECT AREA = 4.29 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.04 ACRES

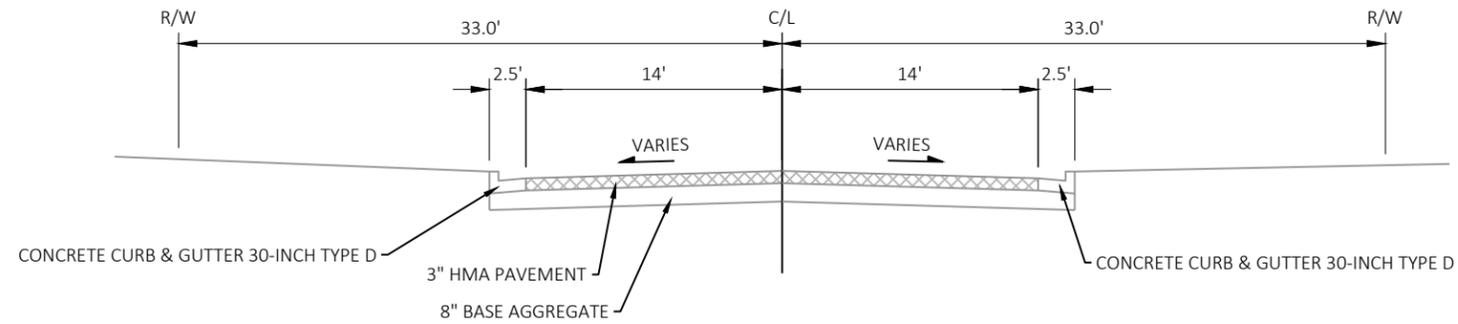


EXISTING TYPICAL SECTION 21ST AVENUE
STA 219+67 - 245+13



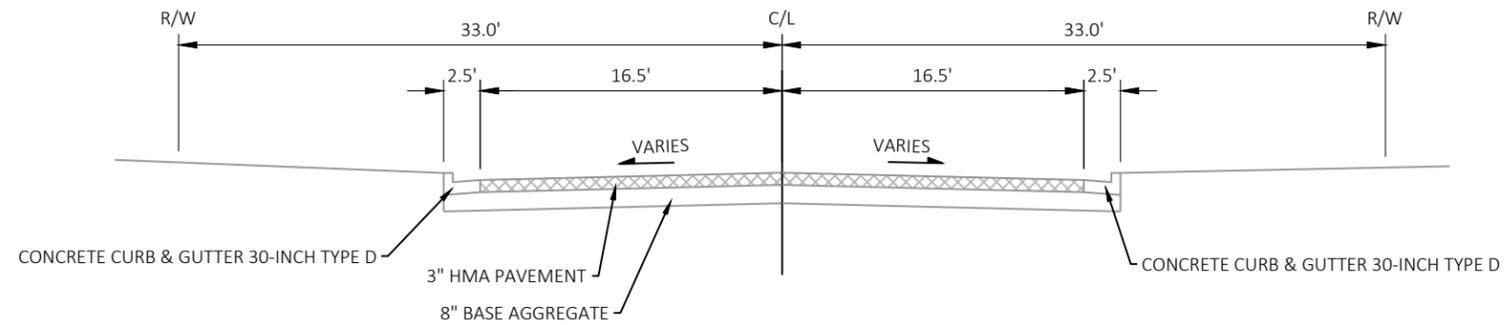
PROPOSED TYPICAL SECTION 21ST AVENUE
STA 219+67 - 245+13





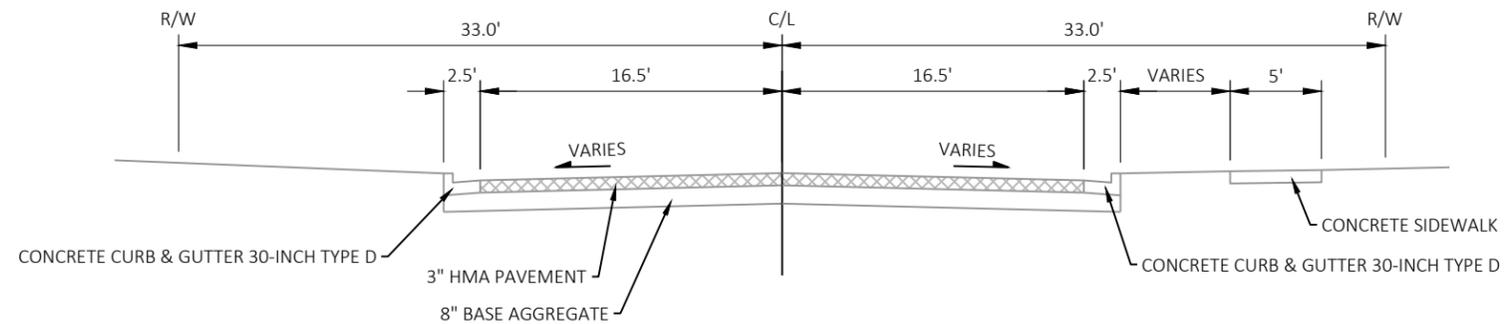
EXISTING TYPICAL SECTION 5TH STREET EAST

STA 300+43 - 303+00



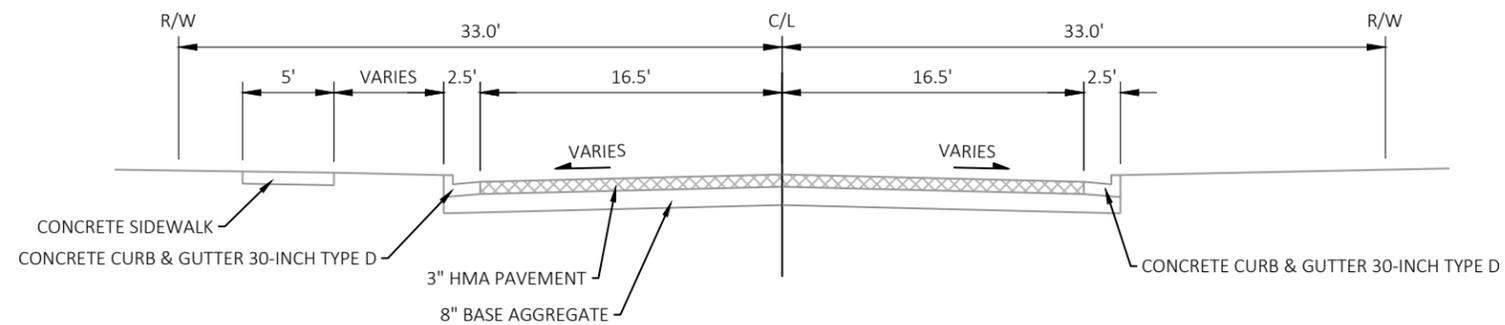
EXISTING TYPICAL SECTION 5TH STREET EAST

STA 303+00 - 309+30



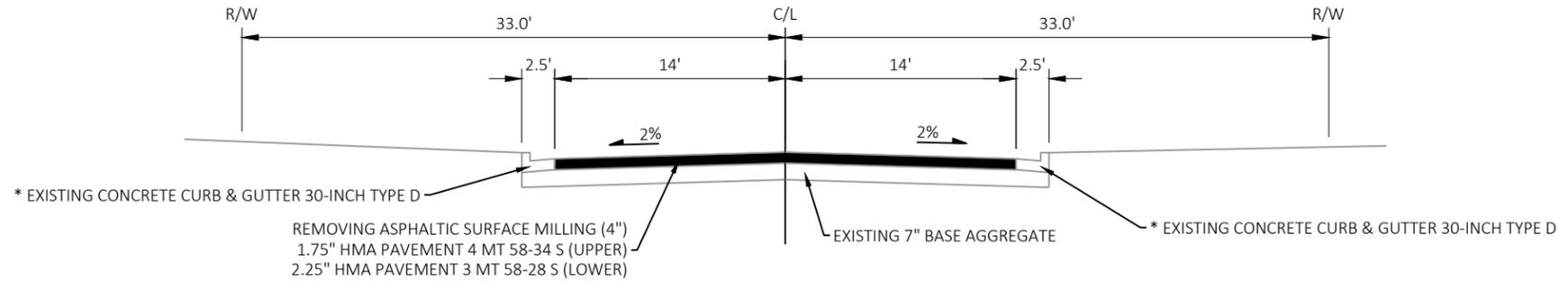
EXISTING TYPICAL SECTION 5TH STREET EAST

STA 309+30 - 316+12



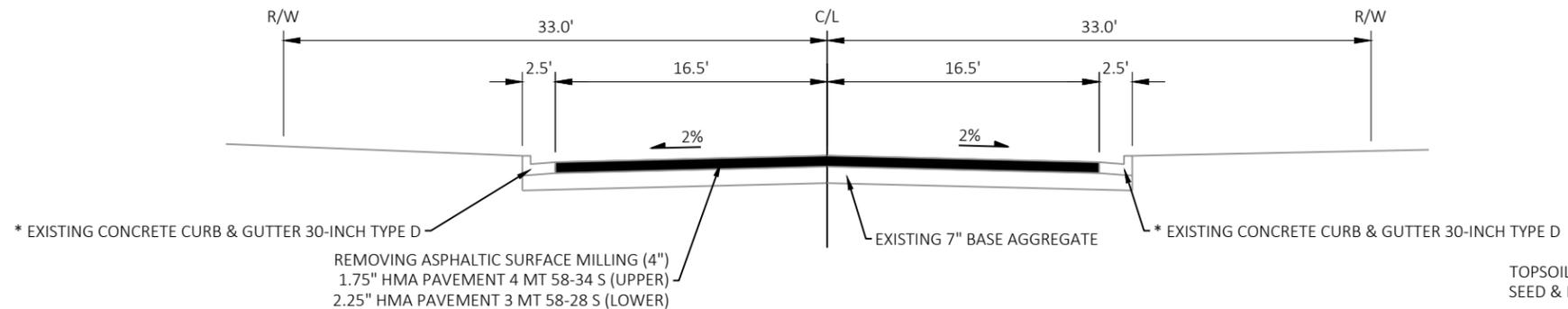
EXISTING TYPICAL SECTION 5TH STREET EAST

STA 316+12 - 326+35



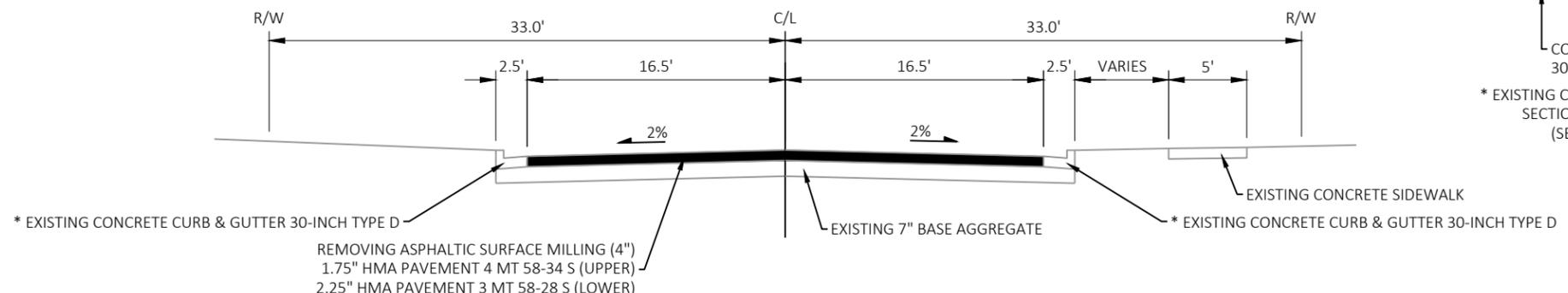
PROPOSED TYPICAL SECTION 5TH STREET EAST

STA 300+43 - 303+00



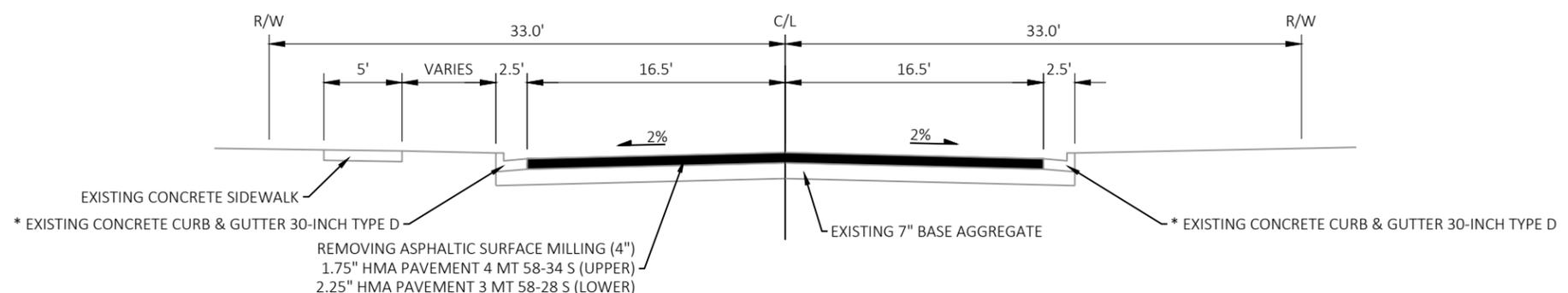
PROPOSED TYPICAL SECTION 5TH STREET EAST

STA 303+00 - 309+30



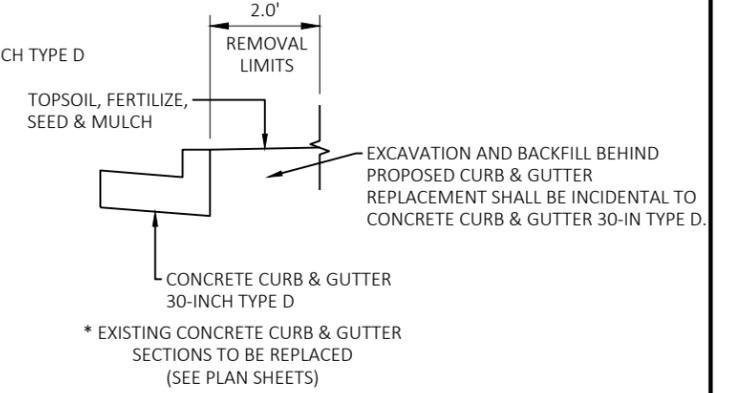
PROPOSED TYPICAL SECTION 5TH STREET EAST

STA 309+30 - 316+12



PROPOSED TYPICAL SECTION 5TH STREET EAST

STA 316+12 - 326+35

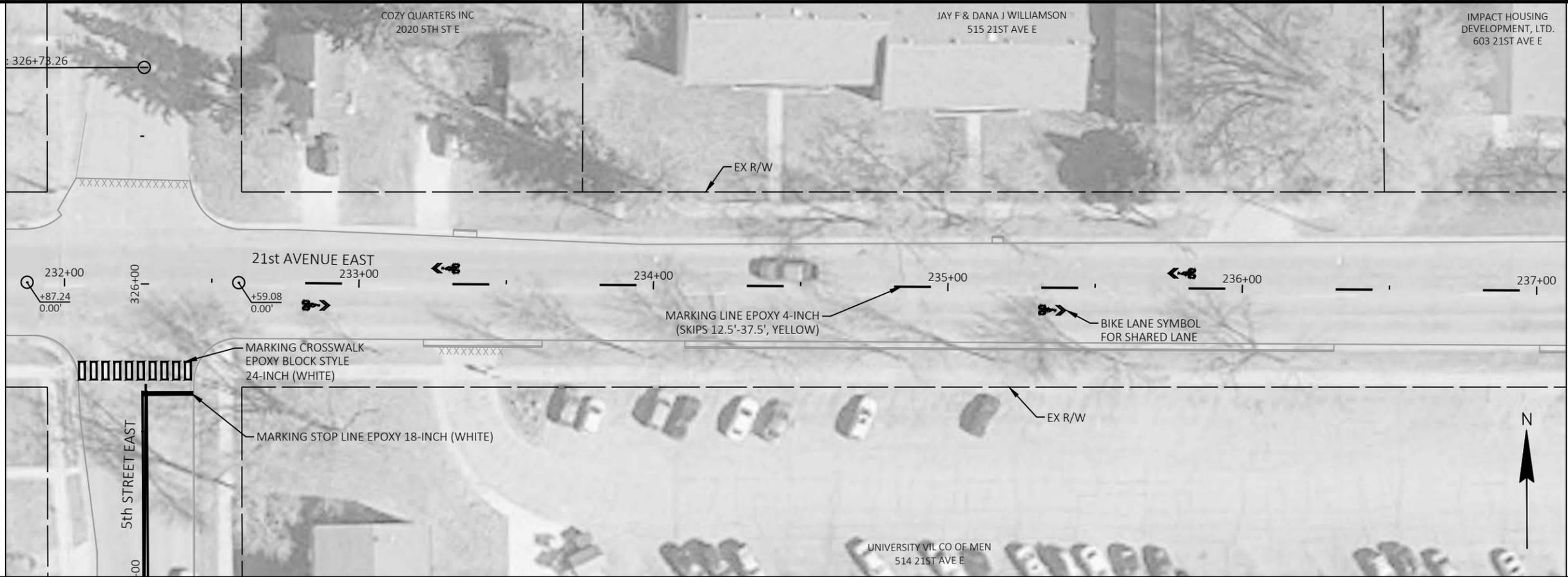
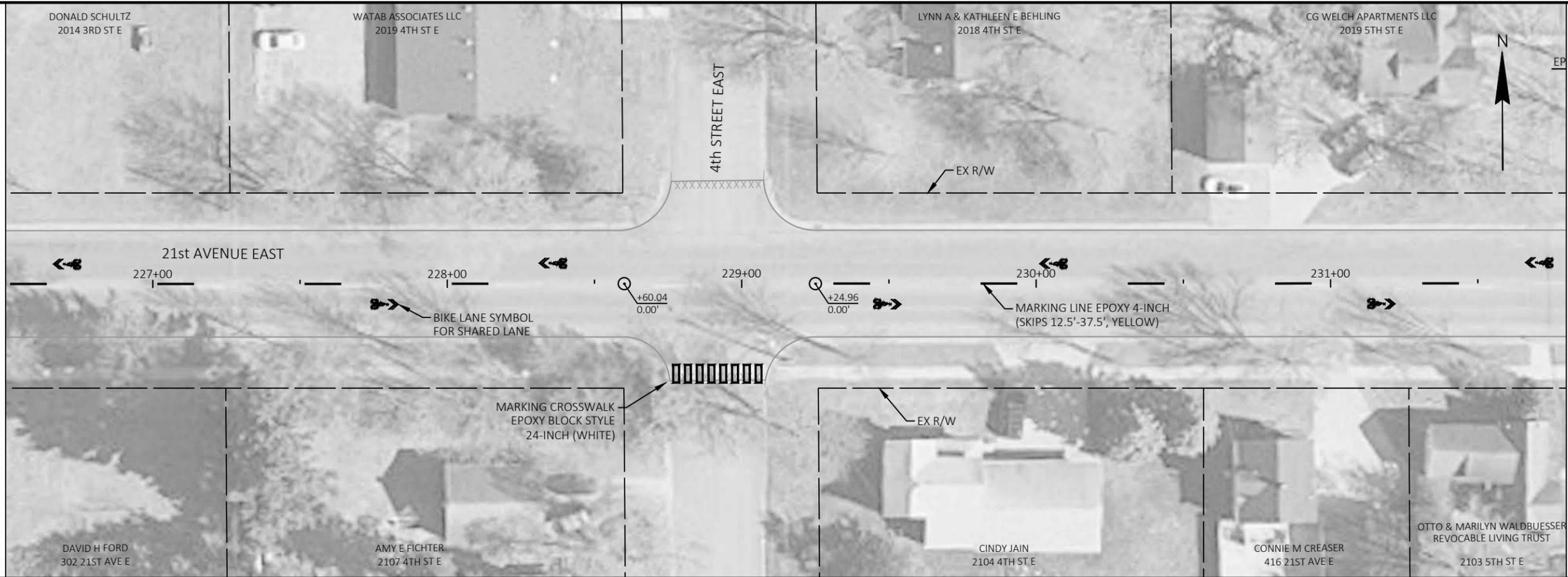




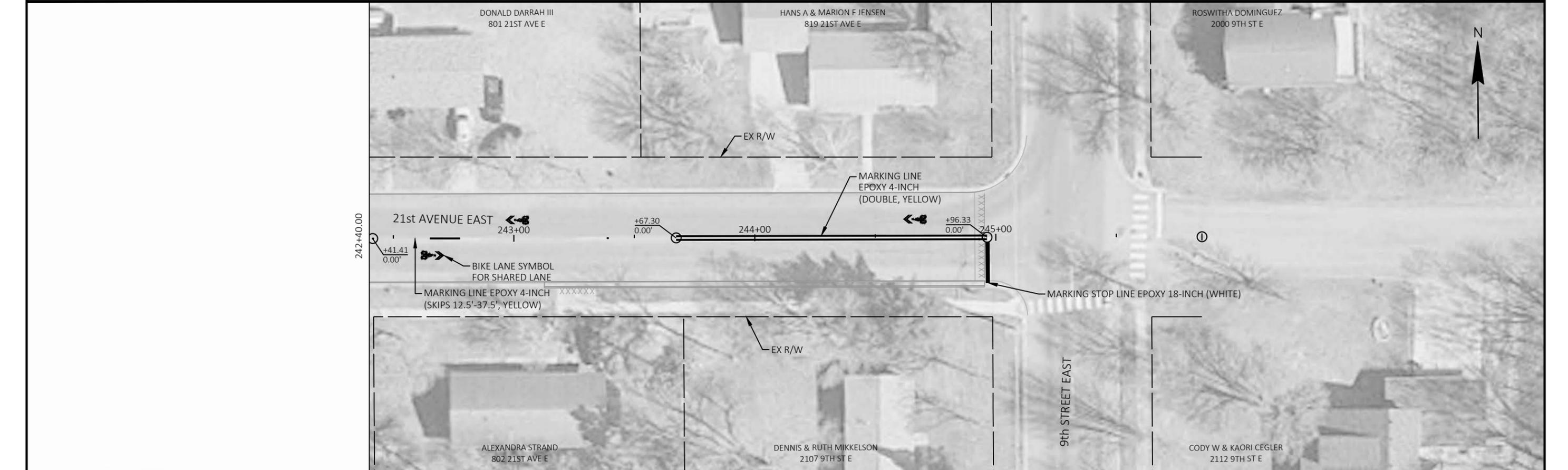
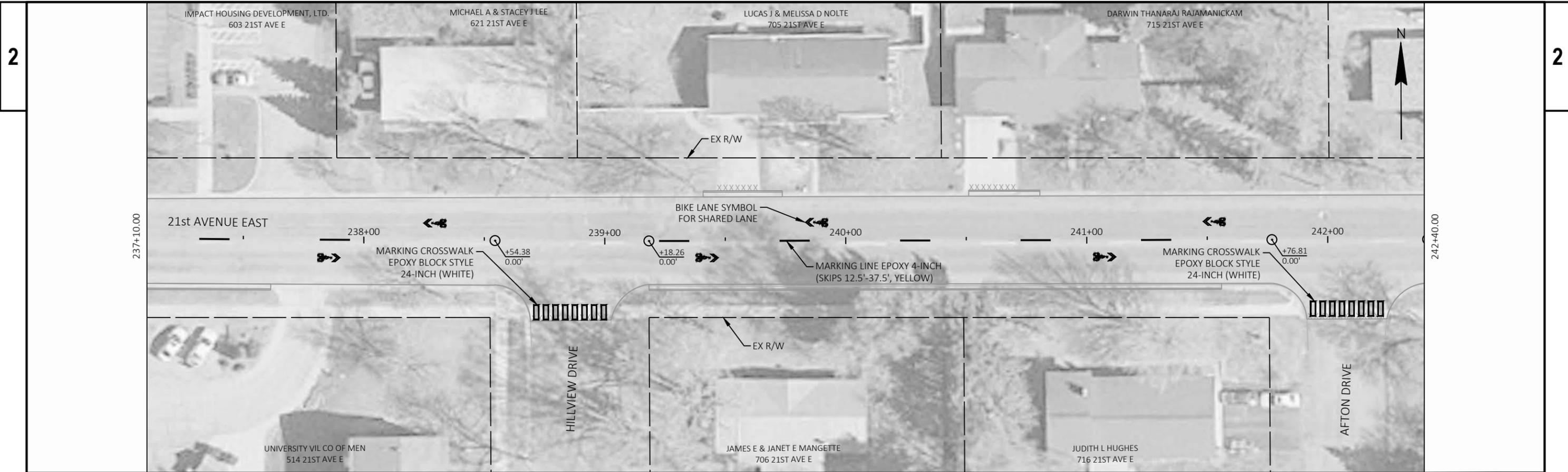
PROJECT NO: 7996-00-89 HWY: 21ST AVE & 5TH ST E COUNTY: DUNN PAVEMENT MARKING SHEET **E**

2

2



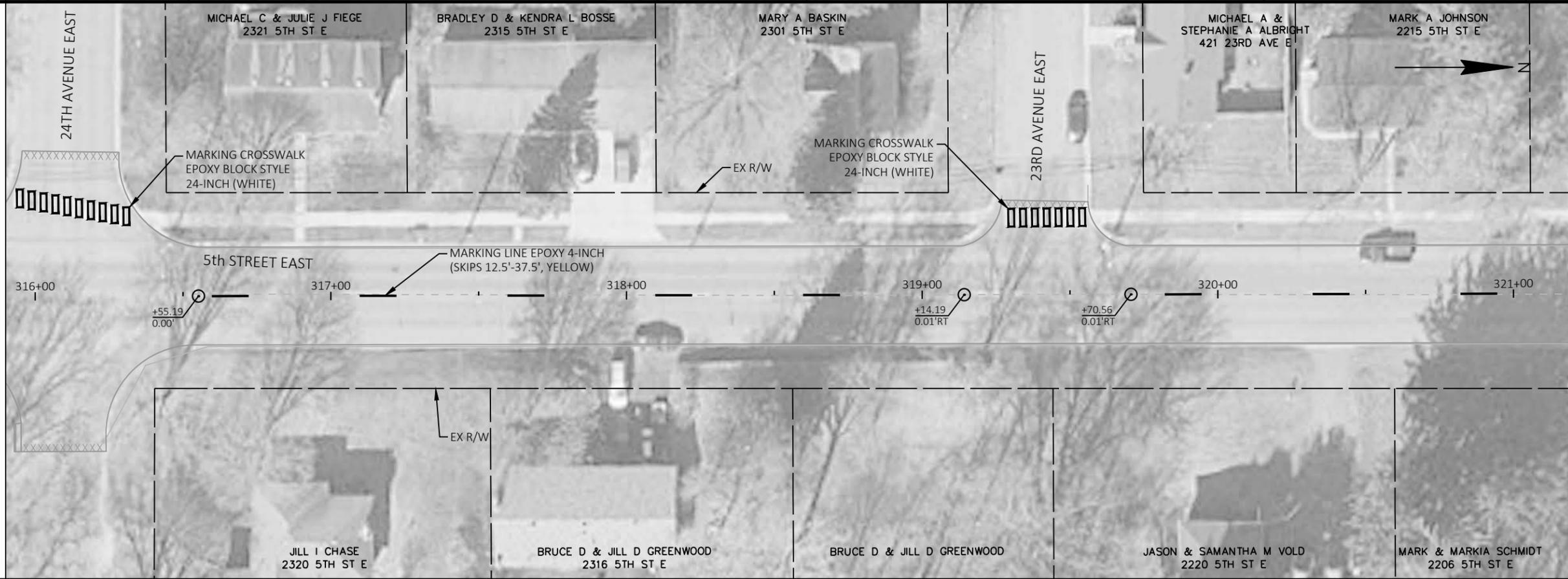
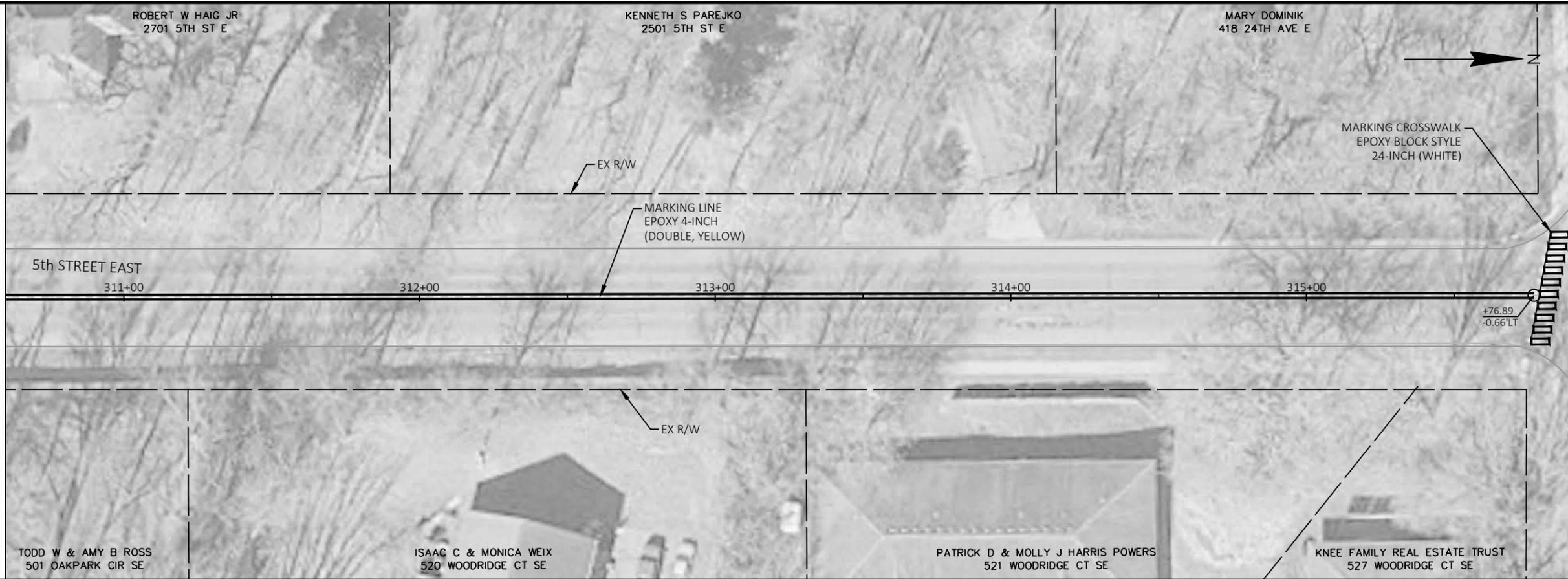
PROJECT NO: 7996-00-89	HWY: 21ST AVE & 5TH ST E	COUNTY: DUNN	PAVEMENT MARKING	SHEET	E
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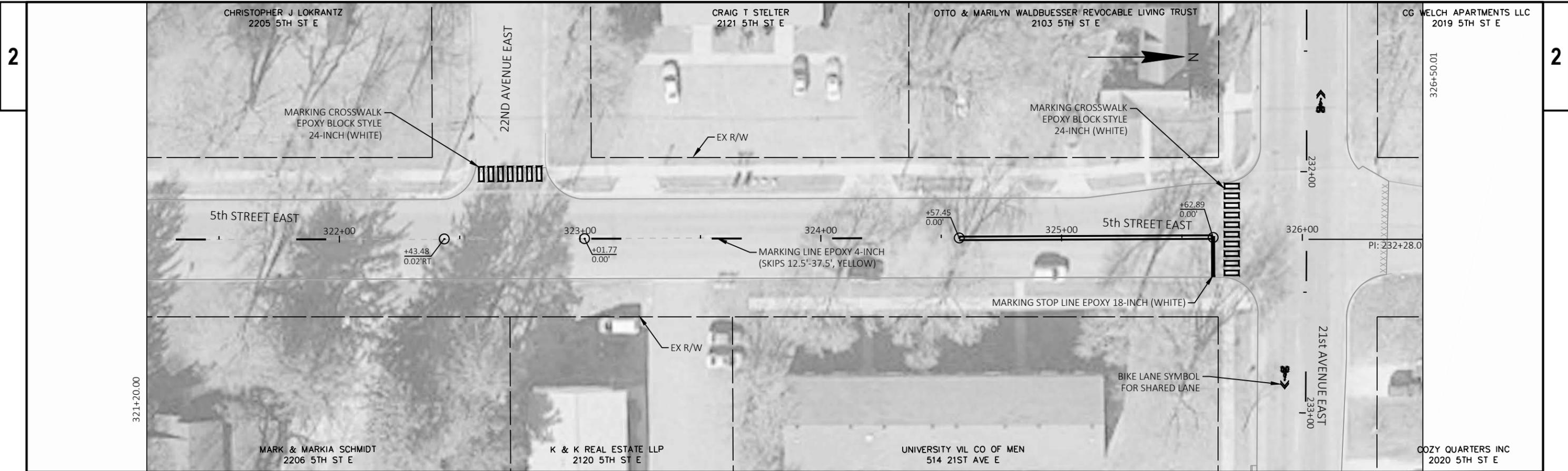
PROJECT NO: 7996-00-89 HWY: 21ST AVE & 5TH ST E COUNTY: DUNN PAVEMENT MARKING SHEET E



PROJECT NO: 7996-00-89 HWY: 21ST AVE & 5TH ST E COUNTY: DUNN PAVEMENT MARKING SHEET **E**



PROJECT NO: 7996-00-89	HWY: 21ST AVE & 5TH ST E	COUNTY: DUNN	PAVEMENT MARKING	SHEET	E
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PROJECT NO: 7996-00-89	HWY: 21ST AVE & 5TH ST E	COUNTY: DUNN	PAVEMENT MARKING	SHEET	E
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GENERAL NOTES

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

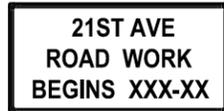
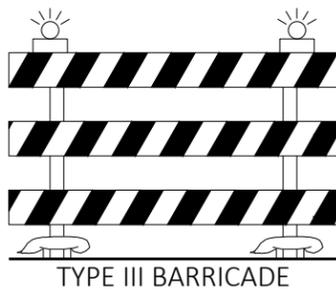
THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

LEGEND

-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  WORK AREA
-  BICYCLE DETOUR ROUTE



Estimate Of Quantities

7996-00-89

Line	Item	Item Description	Unit	Total	Qty
0002	204.0120	Removing Asphaltic Surface Milling	SY	20,642.000	20,642.000
0004	204.0150	Removing Curb & Gutter	LF	962.000	962.000
0006	213.0100	Finishing Roadway (project) 01. 7996-00-89	EACH	1.000	1.000
0008	305.0110	Base Aggregate Dense 3/4-Inch	TON	377.000	377.000
0010	416.0610	Drilled Tie Bars	EACH	64.000	64.000
0012	450.4000	HMA Cold Weather Paving	TON	1,156.000	1,156.000
0014	455.0605	Tack Coat	GAL	1,445.000	1,445.000
0016	460.2000	Incentive Density HMA Pavement	DOL	2,960.000	2,960.000
0018	460.6223	HMA Pavement 3 MT 58-28 S	TON	2,600.000	2,600.000
0020	460.6244	HMA Pavement 4 MT 58-34 S	TON	2,023.000	2,023.000
0022	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	962.000	962.000
0024	611.0420	Reconstructing Manholes	EACH	9.000	9.000
0026	611.8110	Adjusting Manhole Covers	EACH	4.000	4.000
0028	611.8115	Adjusting Inlet Covers	EACH	1.000	1.000
0030	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7996-00-89	EACH	1.000	1.000
0032	619.1000	Mobilization	EACH	1.000	1.000
0034	624.0100	Water	MGAL	6.000	6.000
0036	625.0100	Topsoil	SY	197.000	197.000
0038	627.0200	Mulching	SY	197.000	197.000
0040	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0042	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0044	628.7015	Inlet Protection Type C	EACH	45.000	45.000
0046	629.0210	Fertilizer Type B	CWT	0.100	0.100
0048	630.0140	Seeding Mixture No. 40	LB	3.100	3.100
0050	630.0500	Seed Water	MGAL	2.000	2.000
0052	642.5001	Field Office Type B	EACH	1.000	1.000
0054	643.0420	Traffic Control Barricades Type III	DAY	630.000	630.000
0056	643.0705	Traffic Control Warning Lights Type A	DAY	1,260.000	1,260.000
0058	643.0900	Traffic Control Signs	DAY	1,540.000	1,540.000
0060	643.1000	Traffic Control Signs Fixed Message	SF	67.400	67.400
0062	643.5000	Traffic Control	EACH	1.000	1.000
0064	644.1440	Temporary Pedestrian Surface Matting	SF	1,595.000	1,595.000
0066	644.1601	Temporary Pedestrian Curb Ramp	DAY	630.000	630.000
0068	644.1605	Temporary Pedestrian Detectable Warning Field	SF	180.000	180.000
0070	646.1020	Marking Line Epoxy 4-Inch	LF	4,175.000	4,175.000
0072	646.3020	Marking Line Epoxy 8-Inch	LF	42.000	42.000
0074	646.5020	Marking Arrow Epoxy	EACH	2.000	2.000
0076	646.5220	Marking Symbol Epoxy	EACH	28.000	28.000
0078	646.6120	Marking Stop Line Epoxy 18-Inch	LF	56.000	56.000
0080	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	630.000	630.000
0082	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	962.000	962.000
0084	650.8000	Construction Staking Resurfacing Reference	LF	5,051.000	5,051.000
0086	650.9911	Construction Staking Supplemental Control (project) 01. 7996-00-89	EACH	1.000	1.000
0088	690.0150	Sawing Asphalt	LF	576.000	576.000
0090	690.0250	Sawing Concrete	LF	219.000	219.000
0092	740.0440	Incentive IRI Ride	DOL	3,830.000	3,830.000
0094	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0096	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0098	SPV.0060	Special 01. Adjusting Water Valve Box	EACH	16.000	16.000

PAVEMENT REMOVAL

CATEGORY	STATION	TO	STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
0010	219+67.00	-	244+95.28	21ST AVENUE EAST	10,773
0010	300+43.70	-	325+66.46	5TH STREET EAST	9,869
TOTAL 0010					20,642

CURB & GUTTER

CATEGORY	STATION	TO	STATION	SIDE	LOCATION	*				REMARKS
						204.0150 REMOVING CURB & GUTTER LF	416.0610 DRILLED TIE BARS EACH	601.0411 CONCRETE CURB & GUTTER 30- INCH TYPE D LF	690.0250 SAWING CONCRETE LF	
0010	219+67.5	-	220+13.0	RT	21ST AVENUE EAST	46	4	46	5	
0010	219+77.8	-	220+19.5	LT	21ST AVENUE EAST	42	4	42	5	
0010	220+68.3	-	220+74.3	RT	21ST AVENUE EAST	6	4	6	5	
0010	221+14.3	-	221+41.8	RT	21ST AVENUE EAST	28	4	28	5	
0010	222+60.2	-	222+70.9	RT	21ST AVENUE EAST	10	4	10	5	
0010	233+21.9	-	233+62.3	RT	21ST AVENUE EAST	40	4	40	5	
0010	233+31.9	-	233+39.9	LT	21ST AVENUE EAST	8	4	8	5	
0010	234+10.7	-	236+31.2	RT	21ST AVENUE EAST	221	4	221	5	
0010	235+15.0	-	235+18.7	LT	21ST AVENUE EAST	4	4	4	5	
0010	237+01.1	-	237+61.5	RT	21ST AVENUE EAST	60	4	60	5	
0010	239+18.3	-	241+55.9	RT	21ST AVENUE EAST	238	4	238	5	
0010	239+40.8	-	239+73.7	LT	21ST AVENUE EAST	33	4	33	5	
0010	240+51.1	-	240+80.6	LT	21ST AVENUE EAST	30	4	30	5	
0010	243+12.6	-	244+95.3	RT	21ST AVENUE EAST	183	4	183	5	
0010	309+45	-	309+49	LT	5TH STREET EAST	3	4	3	5	
0010	315+93	-	315+93	RT	24TH AVENUE EAST	10	4	10	5	
TOTAL 0010						962	64	962	80	

*QUANTITIES FOUND ELSEWHERE IN PLANS

BASE AGGREGATE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	624.0100 WATER MGAL	REMARKS
0010	219+67.00	-	244+95.28	21ST AVENUE EAST	180	3	CROWN ADJUSTMENT
0010	300+43.70	-	325+66.46	5TH STREET EAST	179	3	CROWN ADJUSTMENT
0010	300+43.70	-	302+90.20	5TH STREET EAST	18	0	SHOULDER
TOTAL 0010					377	6	

HMA

CATEGORY	STATION	TO	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6244 HMA PAVEMENT 4 MT 58-34 S TON	REMARKS
0010	219+67.00	-	244+95.28	21ST AVENUE EAST	603	754	1,357	1,056	
0010	300+43.70	-	325+66.46	5TH STREET EAST	553	691	1,243	967	
TOTAL 0010					1,156	1,445	2,600	2,023	

ADJUSTING STORM

CATEGORY	STATION	LT / RT	LOCATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	REMARKS
0010	222+69	RT	21ST AVENUE EAST	-	1	-	STM MH
0010	225+54	RT	21ST AVENUE EAST	1	-	-	STM MH, REPLACE ALL RINGS (14 INCHES)
0010	229+11	RT	21ST AVENUE EAST	1	-	-	STM MH, REPLACE ALL RINGS (4 INCHES)
0010	231+85	RT	21ST AVENUE EAST	1	-	-	STM MH, REPLACE ALL RINGS (4 INCHES)
0010	235+24	RT	21ST AVENUE EAST	-	-	1	STM INLET
0010	235+45	LT	21ST AVENUE EAST	1	-	-	STM MH, REPLACE ALL RINGS (4 INCHES)
0010	238+90	LT	21ST AVENUE EAST	1	-	-	STM MH, REPLACE ALL RINGS (2 INCHES)
0010	241+99	LT	21ST AVENUE EAST	1	-	-	STM MH, REPLACE ALL RINGS (13 INCHES)
0010	309+44	RT	5TH STREET EAST	-	1	-	STM MH
0010	311+99	RT	5TH STREET EAST	-	1	-	STM MH
0010	315+65	RT	5TH STREET EAST	1	-	-	STM MH, REPLACE ALL RINGS (5 INCHES)
0010	318+83	RT	5TH STREET EAST	1	-	-	STM MH, REPLACE ALL RINGS (7 INCHES)
0010	322+33	RT	5TH STREET EAST	-	1	-	STM MH
0010	325+62	RT	5TH STREET EAST	1	-	-	STM MH, REPLACE ALL RINGS (6 INCHES)
TOTAL 0010				9	4	1	

EROSION CONTROL

CATEGORY	STATION	LT/RT	LOCATION	628.1905	628.1910	628.7015	REMARKS
				MOBILIZATIONS EROSION CONTROL EACH	MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	INLET PROTECTION TYPE C EACH	
0010	-	-	PROJECT	3	3	-	
0010	219+20	RT	21ST AVENUE EAST	-	-	1	
0010	219+43	LT & RT	21ST AVENUE EAST	-	-	2	
0010	222+13	RT	2ND STREET EAST	-	-	1	
0010	222+63	LT & RT	21ST AVENUE EAST	-	-	1	
0010	222+66	RT	21ST AVENUE EAST	-	-	1	
0010	225+45	RT	3RD STREET EAST	-	-	1	
0010	225+76	RT	3RD STREET EAST	-	-	1	
0010	225+83	LT	21ST AVENUE EAST	-	-	1	
0010	225+96	RT	21ST AVENUE EAST	-	-	1	
0010	228+75	RT	4TH STREET EAST	-	-	1	
0010	229+08	RT	4TH STREET EAST	-	-	1	
0010	229+26	LT	21ST AVENUE EAST	-	-	1	
0010	229+84	LT	21ST AVENUE EAST	-	-	1	
0010	230+86	LT	21ST AVENUE EAST	-	-	1	
0010	231+86	LT & RT	21ST AVENUE EAST	-	-	2	
0010	235+24	RT	21ST AVENUE EAST	-	-	1	
0010	238+60	RT	21ST AVENUE EAST	-	-	1	
0010	238+95	RT	21ST AVENUE EAST	-	-	1	
0010	241+83	RT	21ST AVENUE EAST	-	-	1	
0010	242+30	RT	21ST AVENUE EAST	-	-	1	
0010	245+04	LT & RT	21ST AVENUE EAST	-	-	2	
0010	300+68	LT	SISTERS CIRCLE	-	-	1	
0010	300+98	LT	SISTERS CIRCLE	-	-	1	
0010	309+13	RT	OAK PARK CIRCLE	-	-	1	
0010	309+42	RT	OAK PARK CIRCLE	-	-	1	
0010	309+45	LT	5TH STREET EAST	-	-	1	
0010	312+00	LT & RT	5TH STREET EAST	-	-	2	
0010	315+65	LT & RT	5TH STREET EAST	-	-	2	
0010	315+94	RT	24TH AVENUE EAST	-	-	1	
0010	316+25	RT	24TH AVENUE EAST	-	-	1	
0010	318+80	LT & RT	5TH STREET EAST	-	-	2	
0010	319+26	LT	23RD AVENUE EAST	-	-	1	
0010	319+56	LT	23RD AVENUE EAST	-	-	1	
0010	322+32	LT & RT	5TH STREET EAST	-	-	2	
0010	322+56	LT	22ND AVENUE EAST	-	-	1	
0010	322+86	LT	22ND AVENUE EAST	-	-	1	
0010	325+62	RT	5TH STREET EAST	-	-	1	
0010	325+65	LT	5TH STREET EAST	-	-	1	
TOTAL 0010				3	3	45	

RESTORATION

CATEGORY	STATION	TO	STATION	LOCATION	625.0100	627.0200	629.0210	630.0140	630.0500
					TOPSOIL SY	MULCHING SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 40 LB	SEED WATER MGAL
0010	219+67.00	-	244+95.28	21ST AVENUE EAST	194	194	0.1	3	2
0010	300+43.70	-	325+66.46	5TH STREET EAST	3	3	0.0	0.1	0.0
TOTAL 0010					197	197	0.1	3.1	2

TRAFFIC CONTROL

CATEGORY	LOCATION	NUMBER OF BARRICADES TYPE III PER DAY	NUMBER OF WARNING LIGHTS TYPE A PER DAY	NUMBER OF SIGNS PER DAY	NUMBER OF FIXED MESSAGE SIGNS PER DAY	DAYS	643.0420	643.0705	643.0900	643.1000	643.5000	REMARKS
							TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	TRAFFIC CONTROL SIGNS DAY	TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	TRAFFIC CONTROL EACH	
0010	7-DAY ADVANCED WARNING	-	-	-	3	7	-	-	-	54.00	-	G20-57
0010	21ST AVENUE EAST	11	22	23	8	35	385	770	805	10.72	-	W16-8P
0010	5TH STREET EAST	7	14	8	2	35	245	490	280	2.68	-	W16-8P
0010	BIKE DETOUR ROUTE	-	-	13	-	35	-	-	455	-	-	
0010	PROJECT	-	-	-	-	-	-	-	-	-	1	
TOTAL 0010							630	1,260	1,540	67.40	1	

PEDESTRIAN ACCOMMODATIONS

CATEGORY	STATION	TO	STATION	LT / RT	LOCATION	644.1440	644.1601	644.1605
						TEMPORARY PEDESTRIAN SURFACE MATTING SF	TEMPORARY PEDESTRIAN CURB RAMP DAY	TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF
0010	222+12	-	222+17	RT	21ST AVENUE EAST/2ND STREET EAST	175	70	20
0010	225+45	-	225+77	RT	21ST AVENUE EAST/3RD STREET EAST	160	70	20
0010	228+75	-	229+08	RT	21ST AVENUE EAST/4TH STREET EAST	165	70	20
0010	232+03	-	232+45	RT	21ST AVENUE EAST/5TH STREET EAST	210	70	20
0010	238+68	-	239+03	RT	21ST AVENUE EAST/HILLVIEW DRIVE	175	70	20
0010	241+90	-	242+25	RT	21ST AVENUE EAST/AFTON DRIVE	175	70	20
0010	315+90	-	316+37	LT	5TH STREET EAST/24TH AVENUE EAST	235	70	20
0010	319+26	-	319+57	LT	5TH STREET EAST/23RD AVENUE EAST	155	70	20
0010	322+57	-	322+86	LT	5TH STREET EAST/22ND AVENUE EAST	145	70	20
TOTAL 0010						1,595	630	180

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.1020	646.3020	646.5020	646.5220	646.6120	646.7520	REMARKS
					MARKING LINE EPOXY 4-INCH LF	MARKING LINE EPOXY 8-INCH LF	MARKING ARROW EPOXY EACH	MARKING SYMBOL EPOXY EACH	MARKING STOP LINE EPOXY 18- INCH LF	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	
0010	219+31.19	-	221+96.77	21ST AVENUE EAST	339	42	2	3	22	54	
0010	222+14.30	-	222+44.30	2ND STREET EAST	-	-	-	-	-	54	
0010	222+60.60	-	225+28.53	21ST AVENUE EAST	67	-	-	4	-	-	
0010	225+45.92	-	225+75.92	3RD STREET EAST	-	-	-	-	-	54	
0010	225+85.50	-	228+60.04	21ST AVENUE EAST	67	-	-	4	-	54	
0010	228+76.70	-	229+06.70	4TH STREET EAST	-	-	-	-	-	54	
0010	229+24.96	-	231+87.24	21ST AVENUE EAST	66	-	-	4	-	-	
0010	232+59.08	-	238+54.38	21ST AVENUE EAST	149	-	-	6	-	-	
0010	238+70.71	-	239+00.50	HILLVIEW DRIVE	-	-	-	-	-	48	
0010	239+18.26	-	241+76.81	21ST AVENUE EAST	65	-	-	4	-	-	
0010	241+92.84	-	242+22.84	AFTON DRIVE	-	-	-	-	-	48	
0010	242+41.41	-	244+96.56	21ST AVENUE EAST	290	-	-	3	17	-	
0010	300+43.70	-	300+53.34	5TH STREET EAST	20	-	-	-	-	-	
0010	301+22.38	-	308+82.26	5TH STREET EAST	1,520	-	-	-	-	-	
0010	309+72.53	-	315+88.57	5TH STREET EAST	1,209	-	-	-	-	60	
0010	315+93.82	-	316+31.89	24TH AVENUE EAST	-	-	-	-	-	60	
0010	316+55.19	-	319+14.19	5TH STREET EAST	65	-	-	-	-	-	
0010	319+29.18	-	319+55.18	23RD AVENUE EAST	-	-	-	-	-	42	
0010	319+70.56	-	322+43.48	5TH STREET EAST	68	-	-	-	-	-	
0010	322+58.00	-	322+84.00	22ND AVENUE EAST	-	-	-	-	-	42	
0010	323+01.77	-	325+73.65	5TH STREET EAST	250	-	-	-	17	60	
TOTAL 0010					4,175	42	2	28	56	630	

STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.5500	650.8000	650.9911.01	REMARKS
					CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	CONSTRUCTION STAKING RESURFACING REFERENCE LF	CONSTRUCTION SUPPLEMENTAL CONTROL (PROJECT) (01. 7996-00-89) EACH	
0010	219+67.00	-	244+95.28	21ST AVENUE EAST	949	2,528	-	
0010	300+43.70	-	325+66.46	5TH STREET EAST	13	2,523	-	
0010			PROJECT		-	-	1	
TOTAL 0010					962	5,051	1	

SAWCUT

CATEGORY 20

CATEGORY	STATION	SIDE	LOCATION	*	
				690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
0010	219+68	LT & RT	21ST AVENUE EAST	36	-
0010	219+99	LT	21ST AVENUE EAST	-	35
0010	221+28	RT	21ST AVENUE EAST	-	25
0010	222+28	LT & RT	2ND STREET EAST	65	-
0010	225+60	LT & RT	3RD STREET EAST	62	-
0010	228+90	LT & RT	4TH STREET EAST	63	-
0010	233+38	RT	21ST AVENUE EAST	-	24
0010	238+85	RT	HILLVIEW DRIVE	34	-
0010	239+55	LT	21ST AVENUE EAST	-	18
0010	240+61	LT	21ST AVENUE EAST	-	20
0010	242+10	RT	AFTON DRIVE	33	-
0010	243+26	RT	21ST AVENUE EAST	-	17
0010	244+95	LT & RT	21ST AVENUE EAST	38	-
0010	300+44	LT & RT	5TH STREET EAST	28	-
0010	300+83	LT	SISTERS CIRCLE	29	-
0010	309+28	RT	OAK PARK CIRCLE	29	-
0010	316+10	RT	24TH AVENUE EAST	29	-
0010	316+12	LT	24TH AVENUE EAST	33	-
0010	319+41	LT	23RD AVENUE EAST	29	-
0010	322+71	LT	22ND AVENUE EAST	29	-
0010	326+35	LT & RT	5TH STREET EAST	39	-
TOTAL 0010				576	139

*QUANTITIES FOUND ELSEWHERE

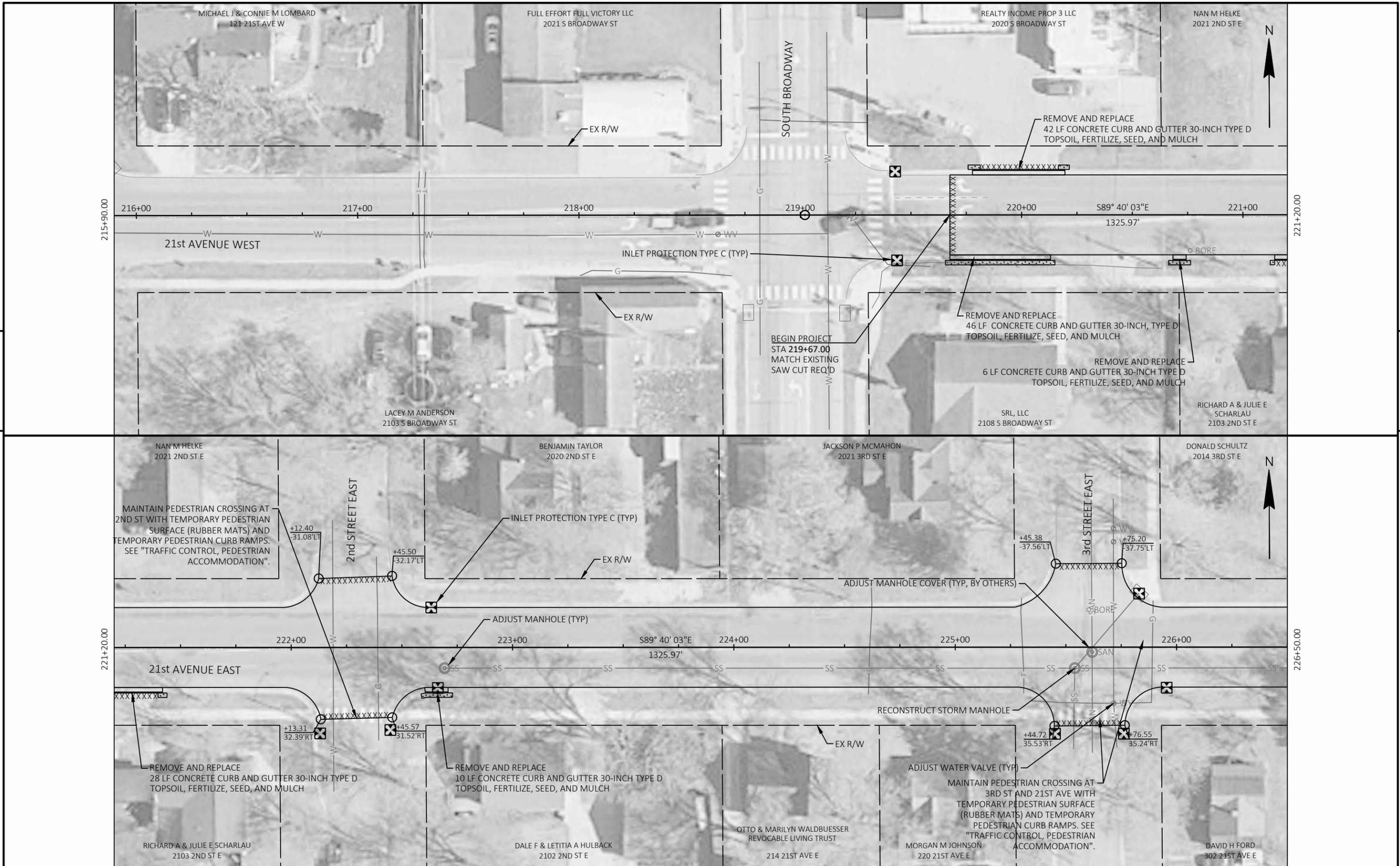
CATEGORY	STATION	SIDE	LOCATION	618.0100.01 MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) (01. 7996-00-89)		SPV.0060.01 SPECIAL (01. ADJUSTING WATER VALVE BOX)		REMARKS
				EACH	EACH	EACH	EACH	
0020	225+72	RT	21ST AVENUE EAST	-	-	1	-	WATER VALVE
0020	232+60	RT	21ST AVENUE EAST	-	-	1	-	WATER VALVE
0020	239+26	RT	21ST AVENUE EAST	-	-	1	-	WATER VALVE
0020	244+91	RT	21ST AVENUE EAST	-	-	1	-	WATER VALVE
0020	300+91	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	300+94	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	303+11	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	307+50	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	309+17	RT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	315+97	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	316+00	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	316+49	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	316+51	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	319+44	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	322+77	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	322+80	LT	5TH STREET EAST	-	-	1	-	WATER VALVE
0020	-	-	PROJECT	1	-	-	-	-
TOTAL 0010				1	-	16	-	-

CATEGORY 20

*
 611.8110 618.0100.01 SPV.0060.01
 MAINTENANCE
 AND REPAIR OF SPECIAL (01.
 ADJUSTING HAUL ROADS ADJUSTING
 MANHOLE (PROJECT) (01. WATER VALVE
 COVERS 7996-00-89) BOX)

CATEGORY	STATION	SIDE	LOCATION	EACH	EACH	EACH	REMARKS
0020	225+62	RT	21ST AVENUE EAST	1	-	-	SAN MH
0020	225+72	RT	21ST AVENUE EAST	-	-	1	WATER VALVE
0020	228+93	RT	21ST AVENUE EAST	1	-	-	SAN MH
0020	232+26	RT	21ST AVENUE EAST	1	-	-	SAN MH
0020	232+60	RT	21ST AVENUE EAST	-	-	1	WATER VALVE
0020	235+56	RT	21ST AVENUE EAST	1	-	-	SAN MH
0020	238+86	LT	21ST AVENUE EAST	1	-	-	SAN MH
0020	239+26	RT	21ST AVENUE EAST	-	-	1	WATER VALVE
0020	242+08	LT	21ST AVENUE EAST	1	-	-	SAN MH
0020	244+91	RT	21ST AVENUE EAST	-	-	1	WATER VALVE
0020	300+84	RT	5TH STREET EAST	1	-	-	SAN MH
0020	300+91	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	300+94	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	303+11	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	303+38	RT	5TH STREET EAST	1	-	-	SAN MH
0020	307+33	RT	5TH STREET EAST	1	-	-	SAN MH
0020	307+50	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	309+17	RT	5TH STREET EAST	-	-	1	WATER VALVE
0020	309+28	RT	5TH STREET EAST	1	-	-	SAN MH
0020	311+63	RT	5TH STREET EAST	1	-	-	SAN MH
0020	314+51	LT	5TH STREET EAST	1	-	-	SAN MH
0020	315+97	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	316+00	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	316+10	RT	5TH STREET EAST	1	-	-	SAN MH
0020	316+49	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	316+51	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	319+39	RT	5TH STREET EAST	1	-	-	SAN MH
0020	319+44	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	322+68	RT	5TH STREET EAST	1	-	-	SAN MH
0020	322+77	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	322+80	LT	5TH STREET EAST	-	-	1	WATER VALVE
0020	-	-	PROJECT	-	1	-	-
TOTAL 0010				15	1	16	

*QUANTITIES FOUND ELSEWHERE IN PLANS



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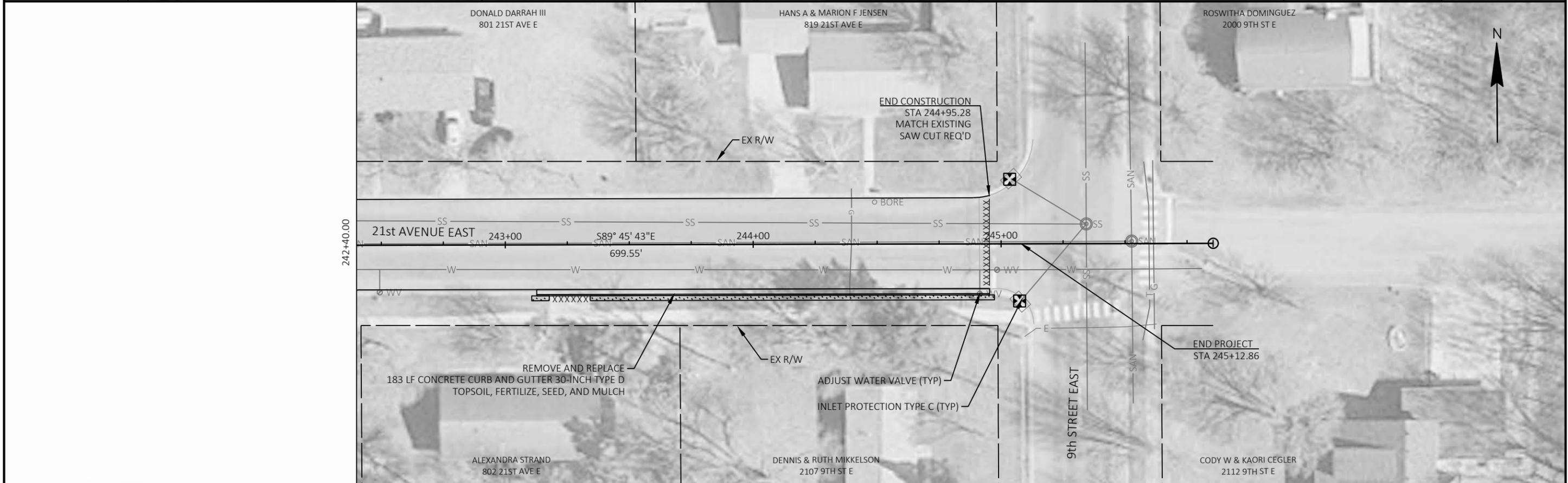
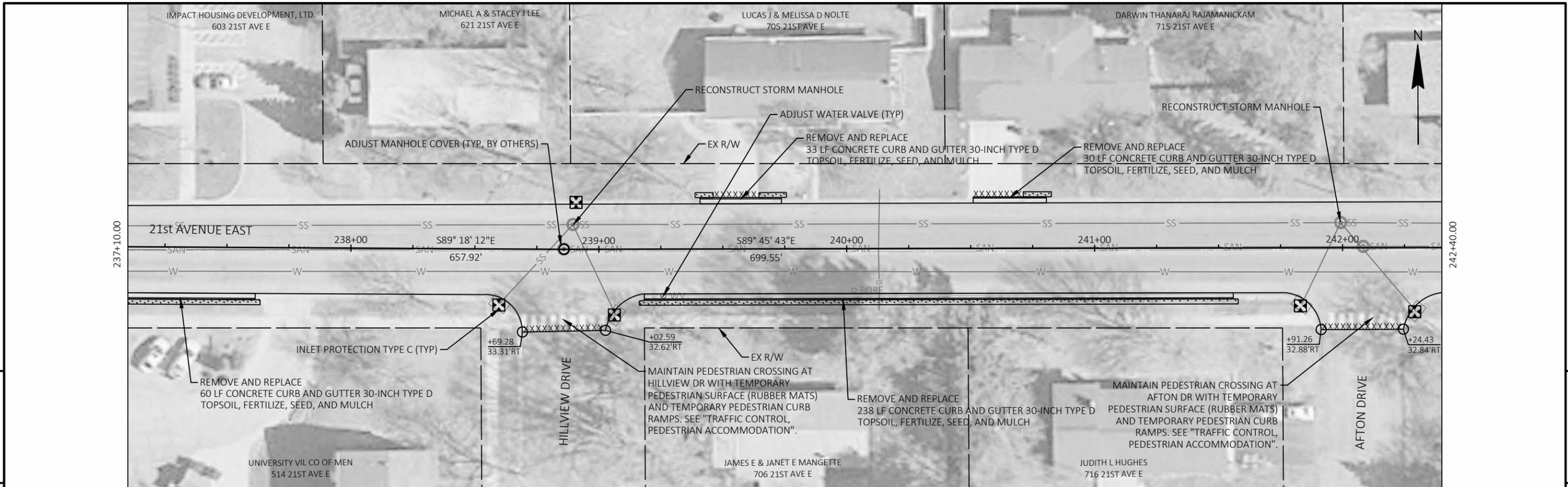
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PROJECT NO: 7996-00-89	HWY: 21ST AVE & 5TH ST E	COUNTY: DUNN	PLAN	SHEET	E
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PROJECT NO: 7996-00-89	HWY: 21ST AVE & 5TH ST E	COUNTY: DUNN	PLAN	SHEET	E
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PROJECT NO: 7996-00-89	HWY: 21ST AVE & 5TH ST E	COUNTY: DUNN	PLAN	SHEET	E
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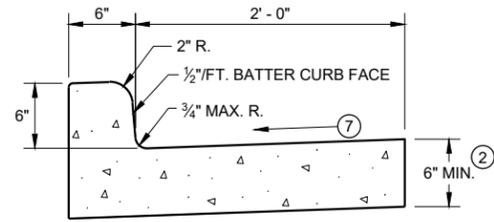
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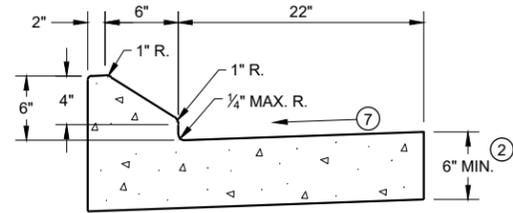
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Standard Detail Drawing List

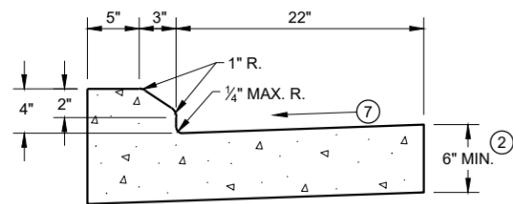
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M. P. H. OR LESS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C08-21C	PAVEMENT MARKING (TURN LANES)
15C08-21D	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C29-07B	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-07A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



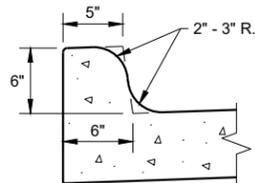
TYPES A^① & D



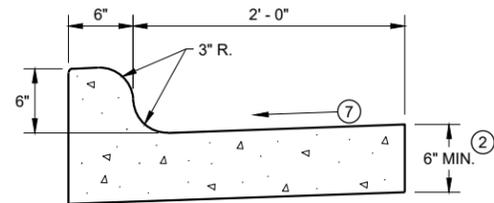
6" SLOPED CURB TYPES G^① & J



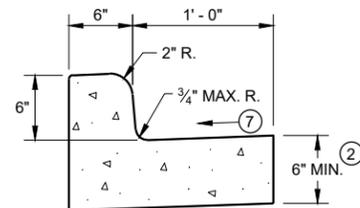
4" SLOPED CURB TYPES G^① & J



TYPES K^① & L
(OPTIONAL CURB SHAPE)

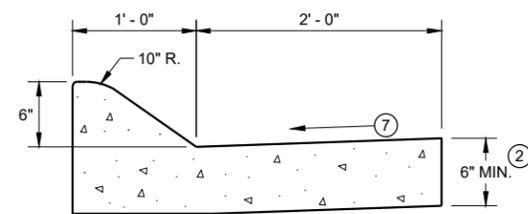


TYPES K^① & L
CONCRETE CURB AND GUTTER 30"

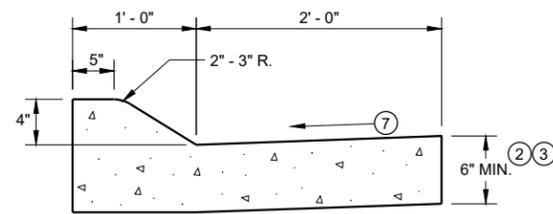


TYPES A^① & D

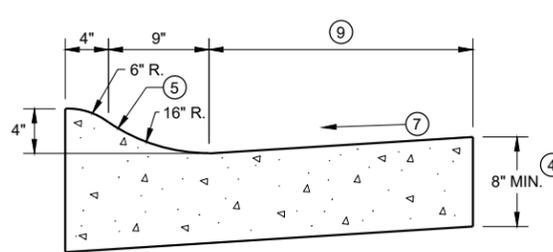
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A^① & D

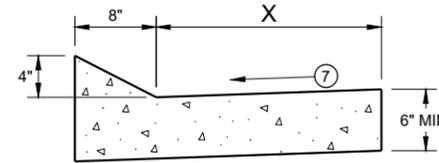


4" SLOPED CURB TYPES A^① & D
CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

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

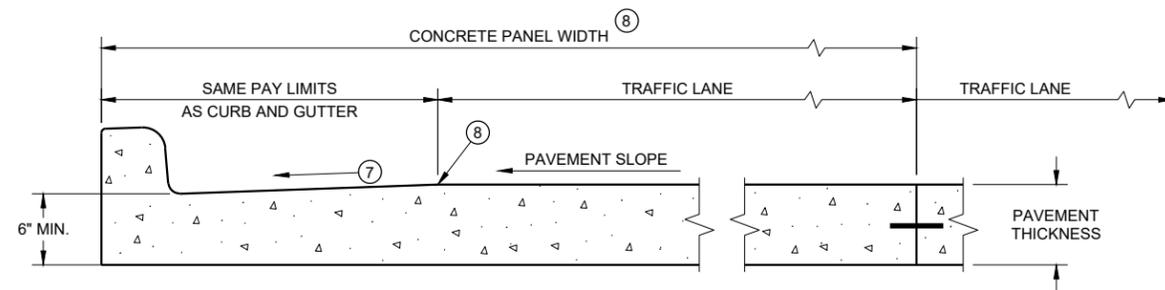


TYPES TBT & TBTT^①

CONCRETE CURB AND GUTTER

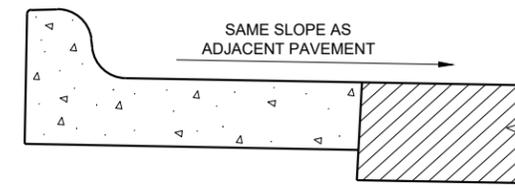
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



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

GENERAL NOTES

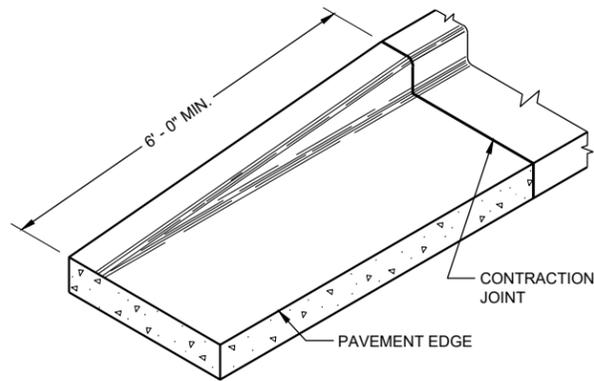
DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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

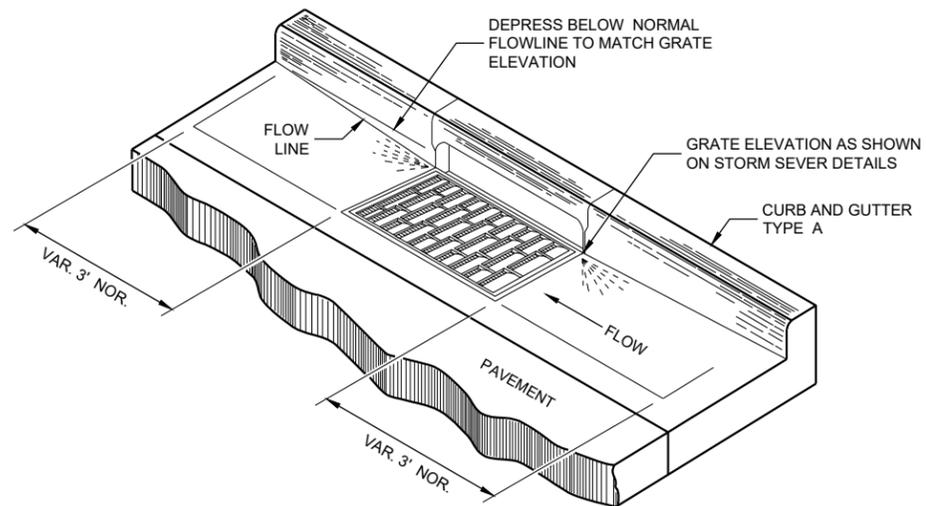
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS 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 UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES 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.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

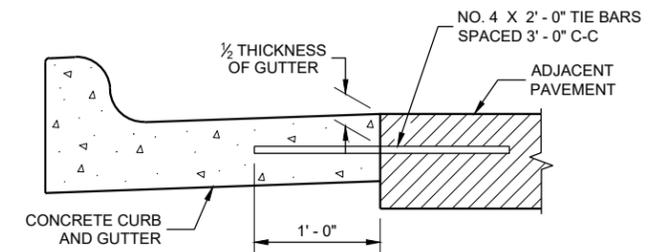
GENERAL NOTES

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

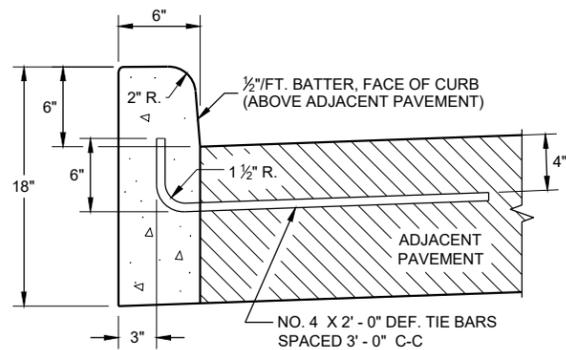
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

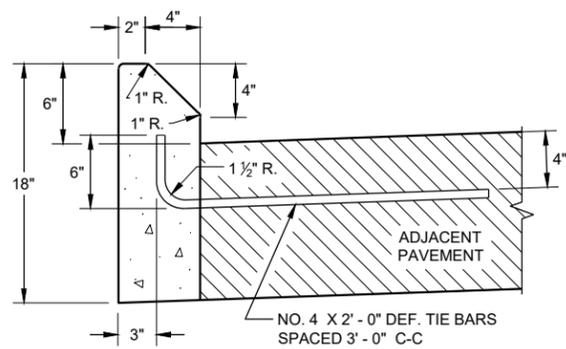
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑨ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION ①

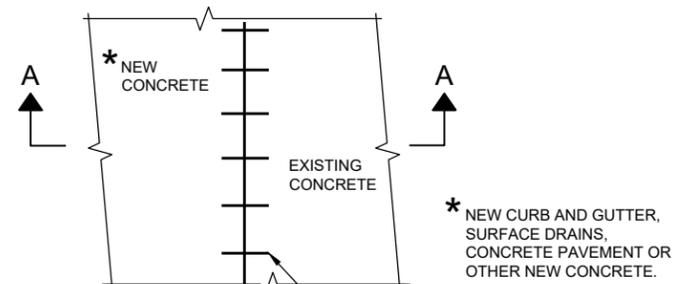


TYPES A ① & D

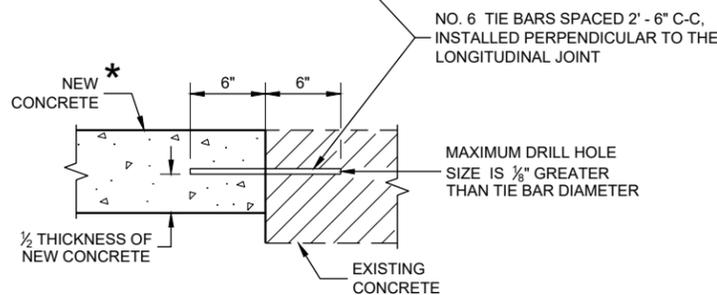


TYPES G ① & J

CONCRETE CURB

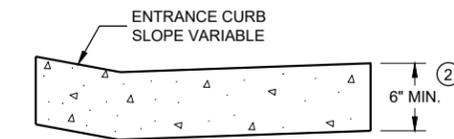


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



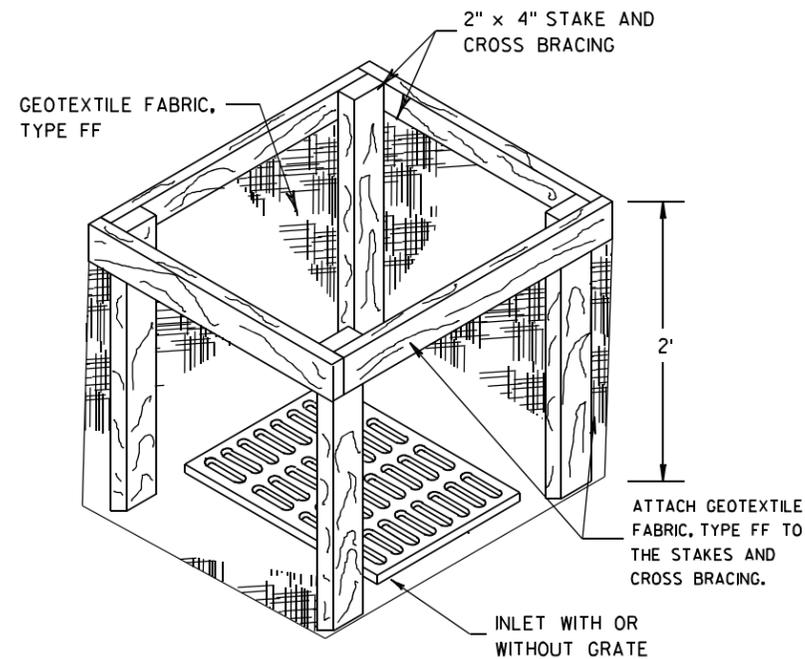
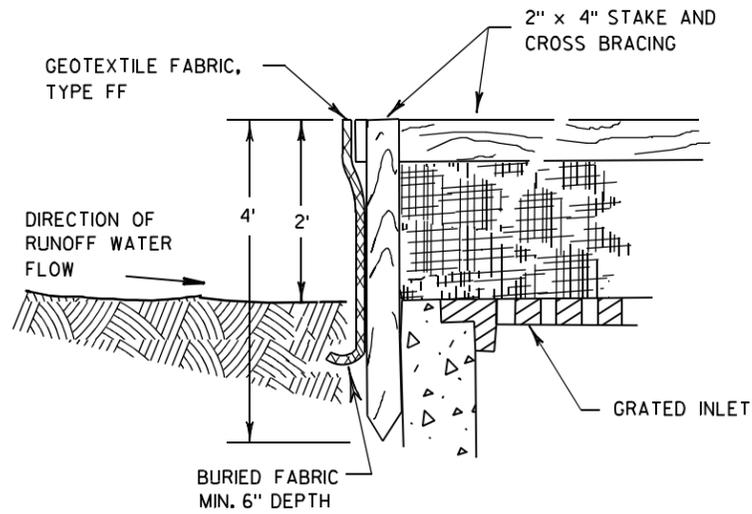
DRIVEWAY ENTRANCE CURB ⑨
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER

FHWA



INLET PROTECTION, TYPE A

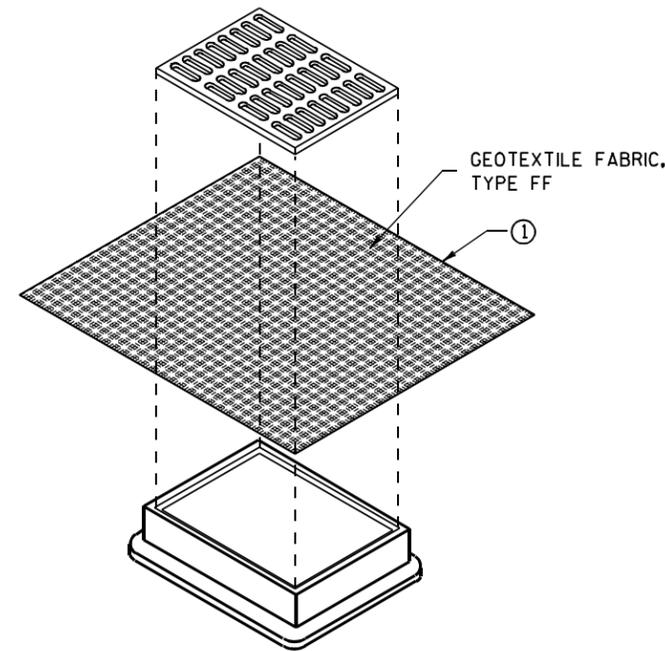
GENERAL NOTES

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

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

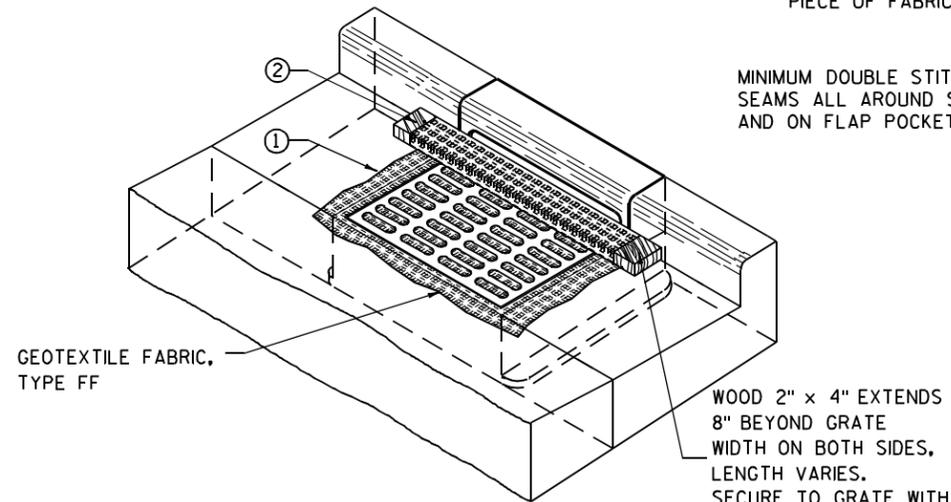
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



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

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

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

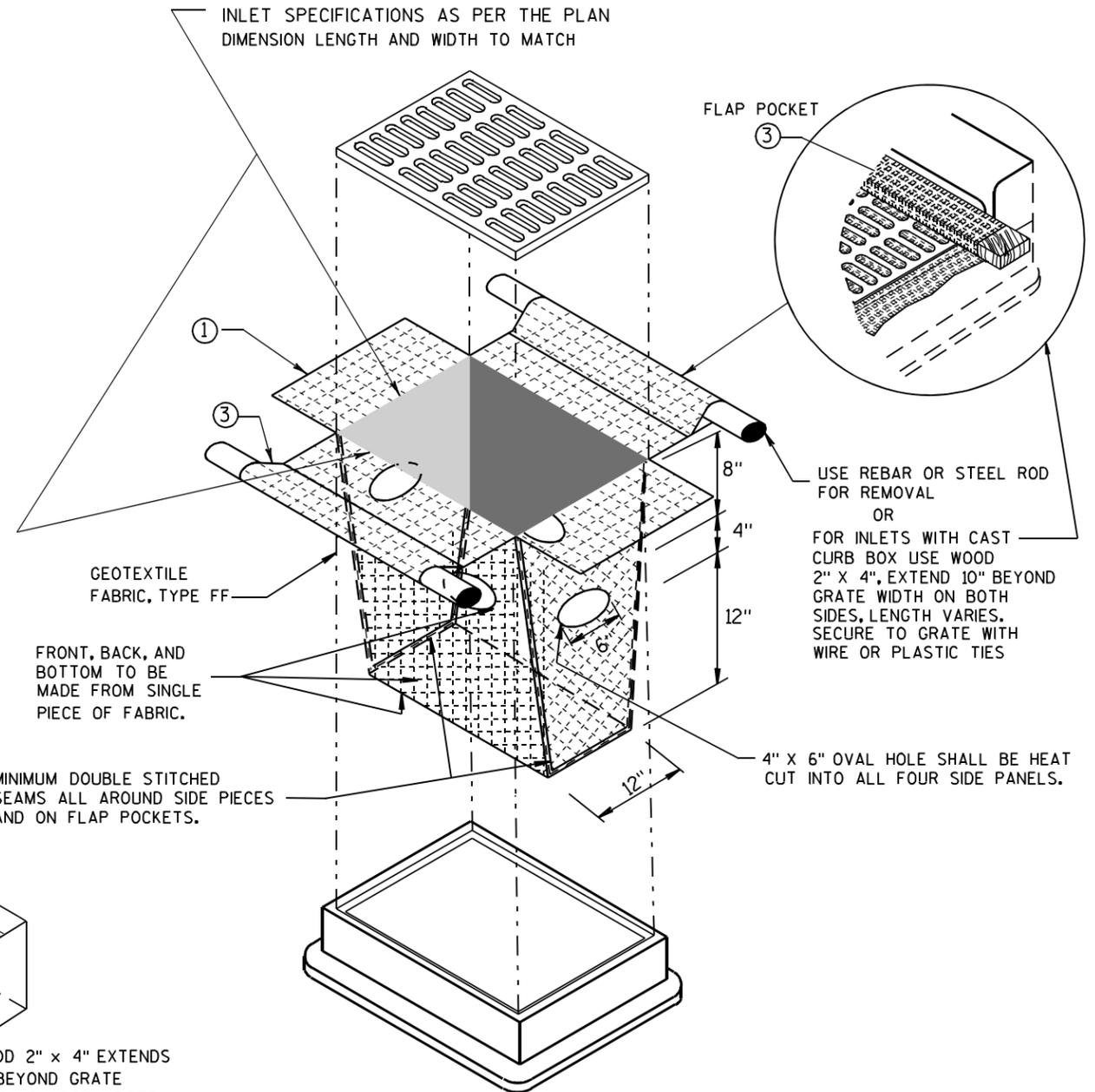
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

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

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

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



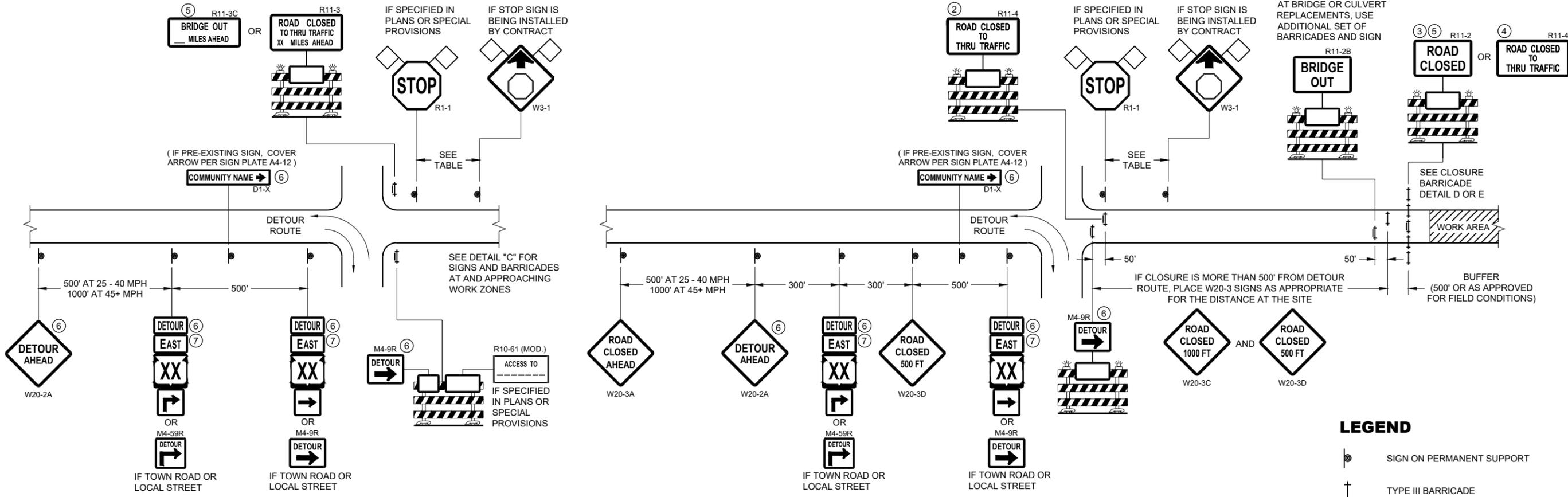
INLET PROTECTION, TYPE D

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

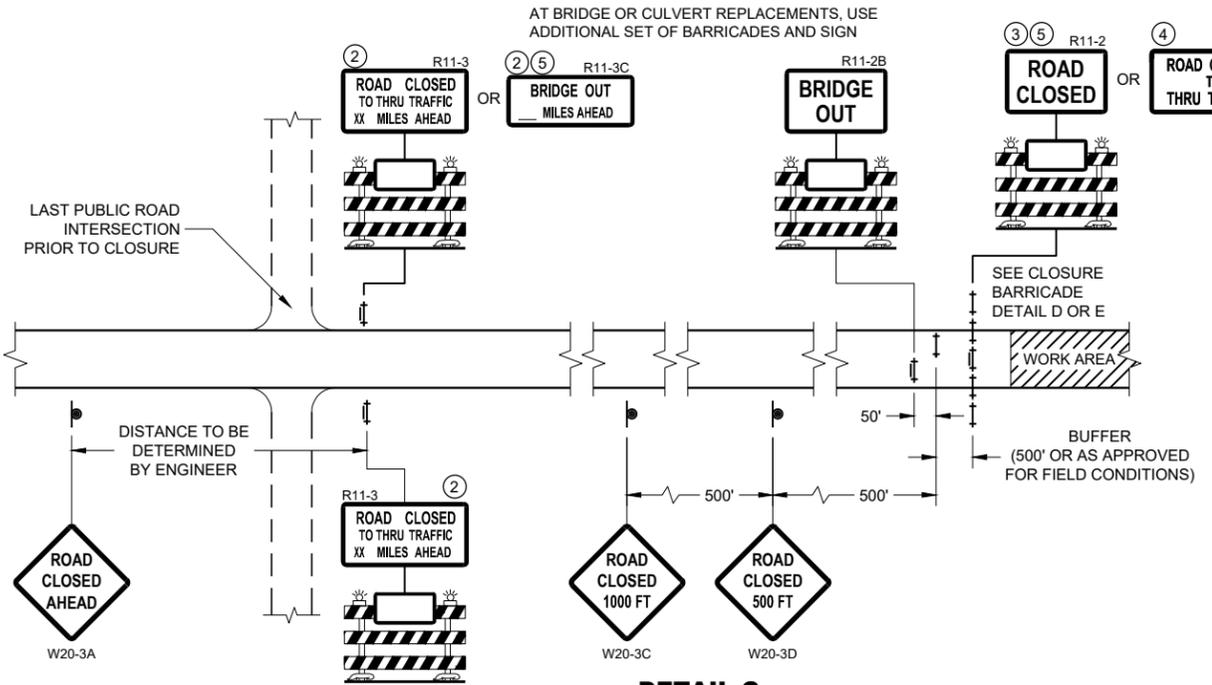
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



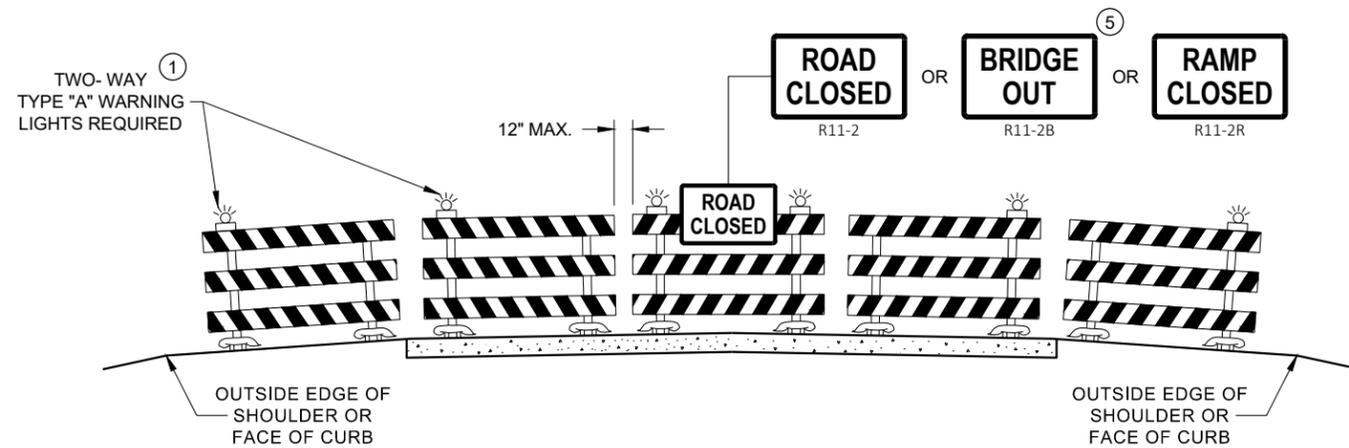
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

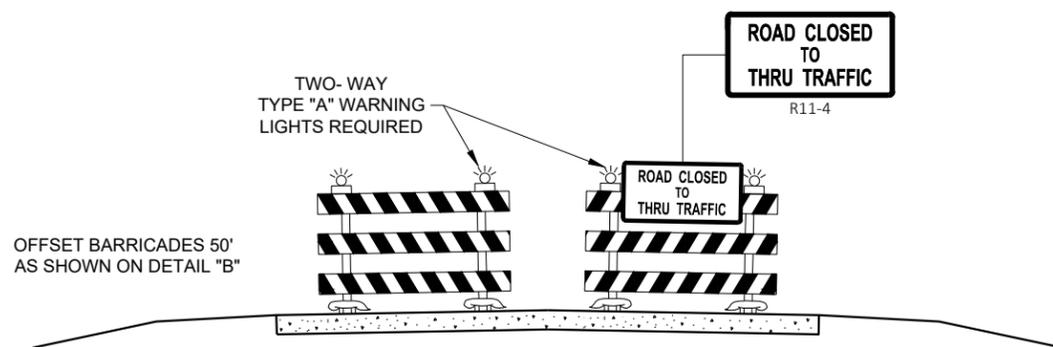
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA



**DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW**



**DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

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

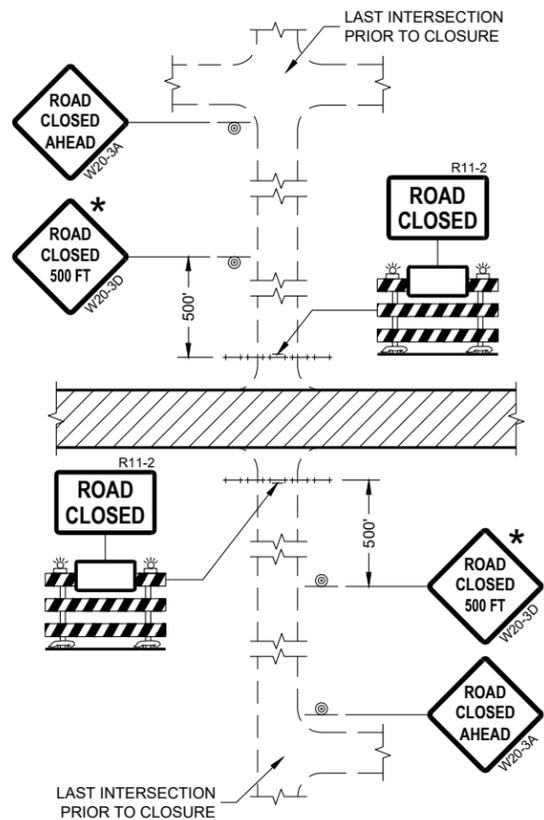
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

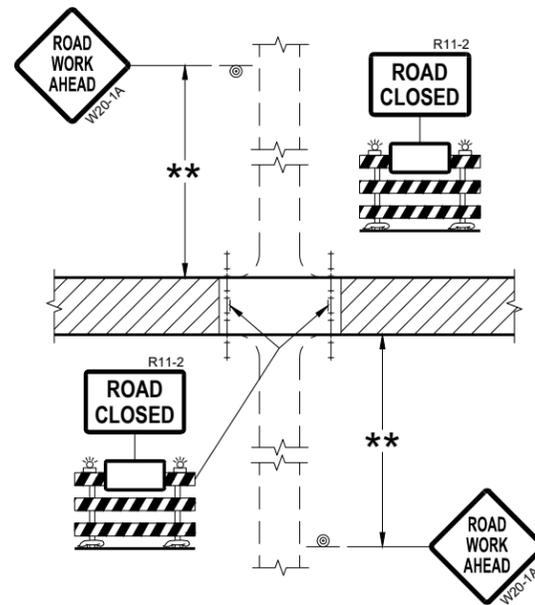
**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

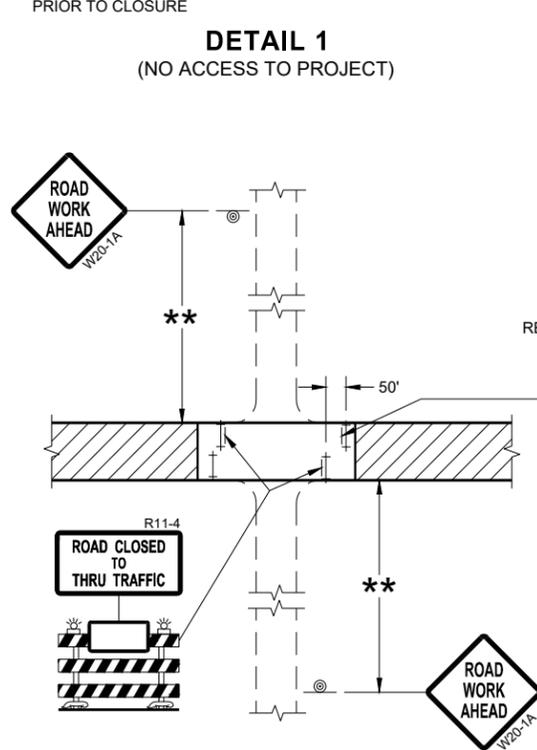
APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER



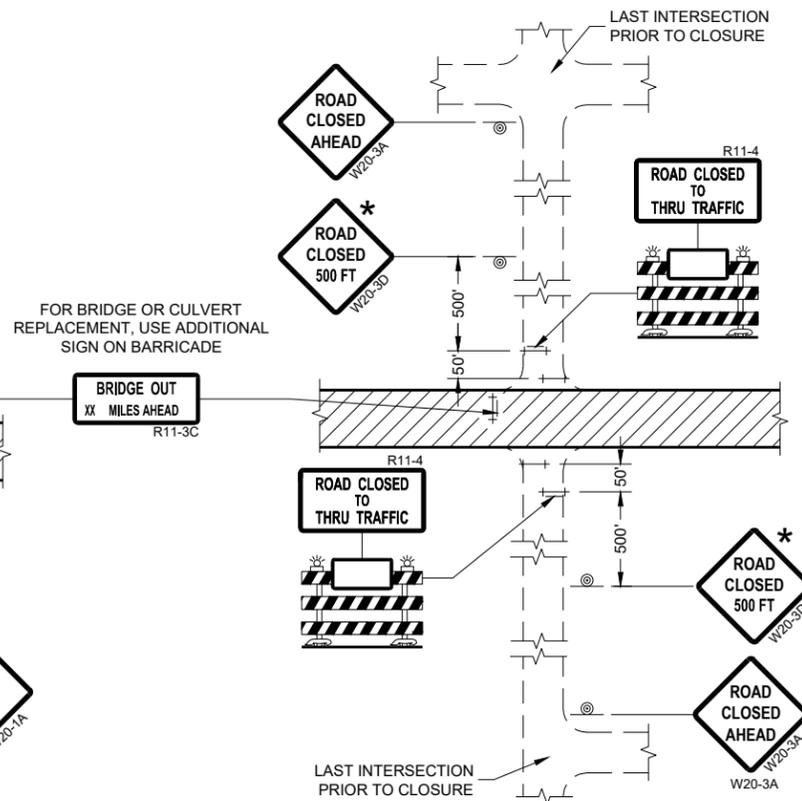
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

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

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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.

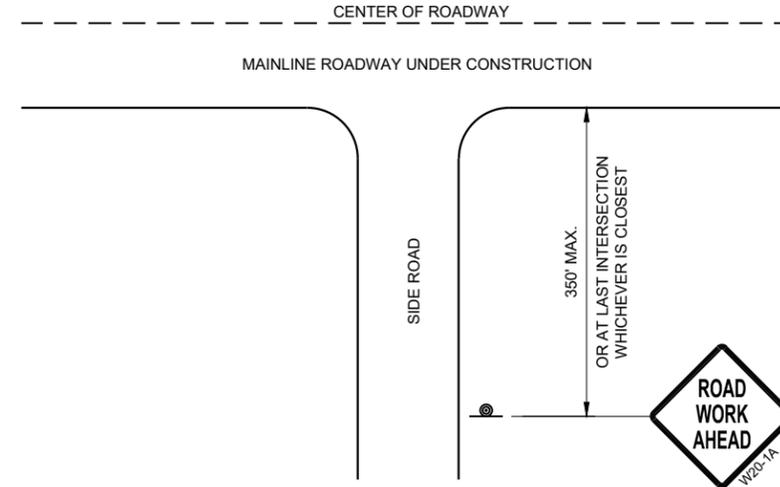
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

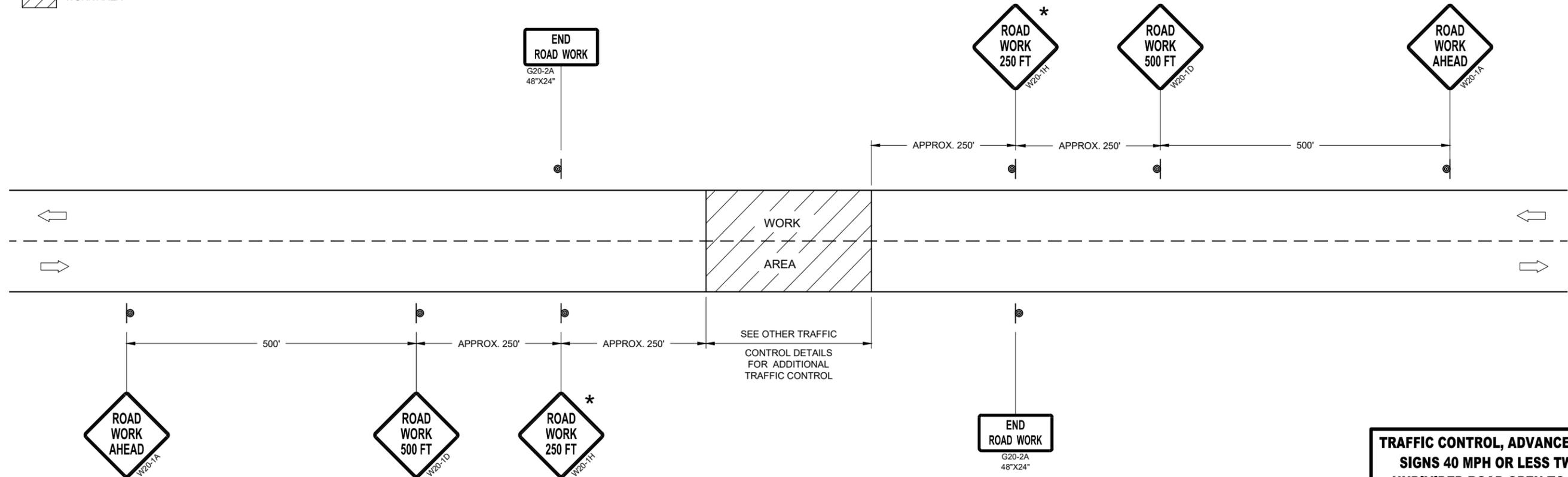
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

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



**TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL**



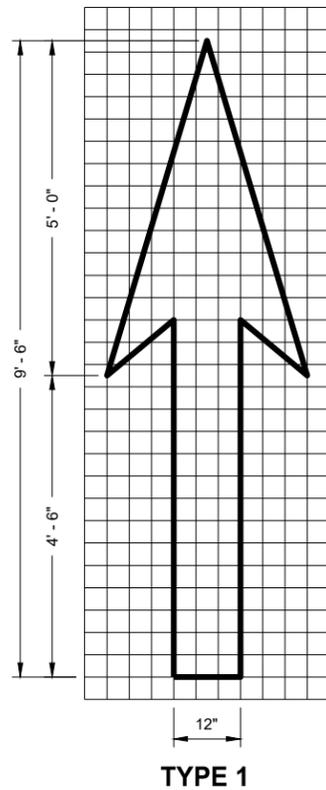
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

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

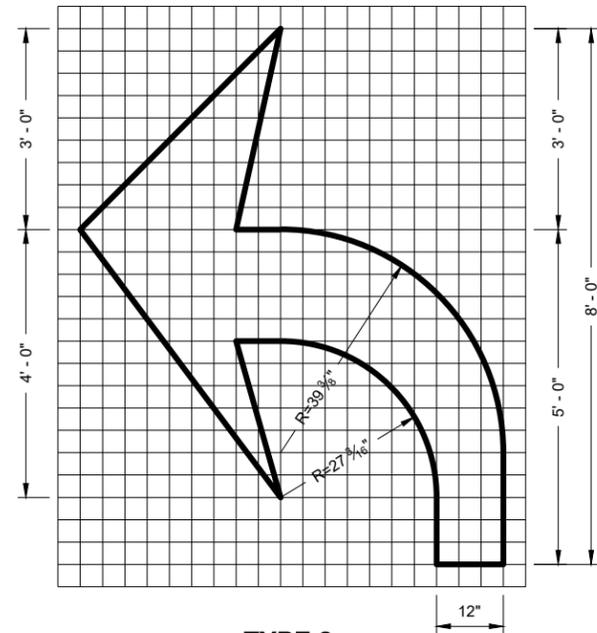
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

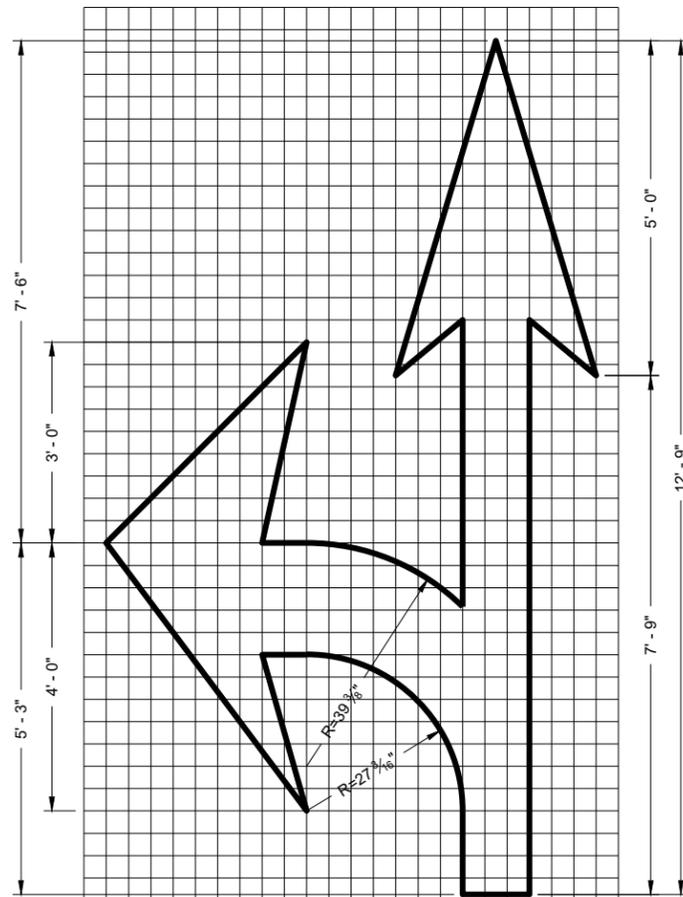
FHWA



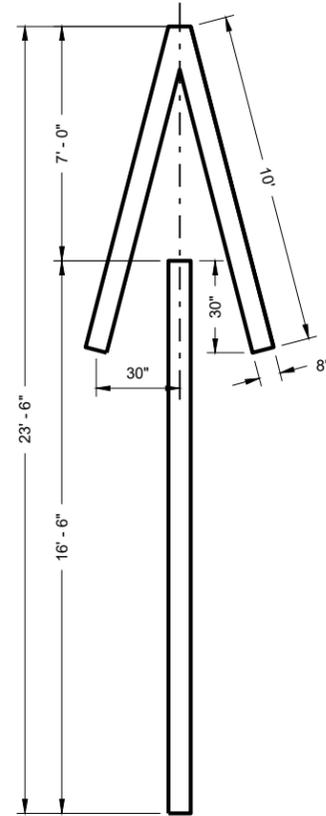
TYPE 1



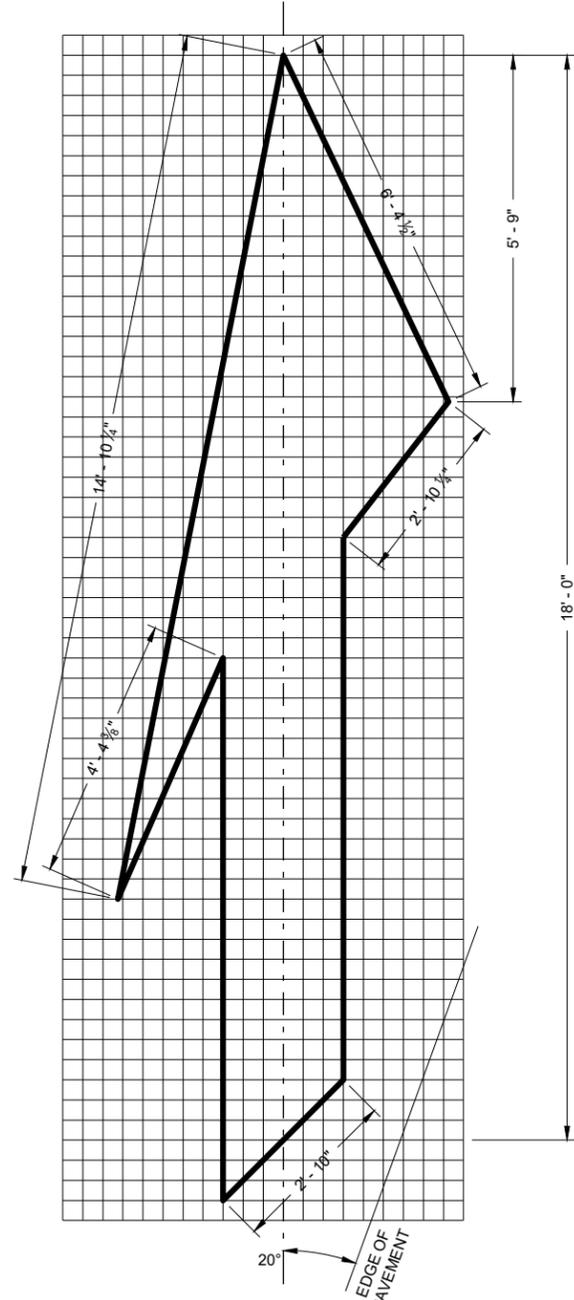
TYPE 2



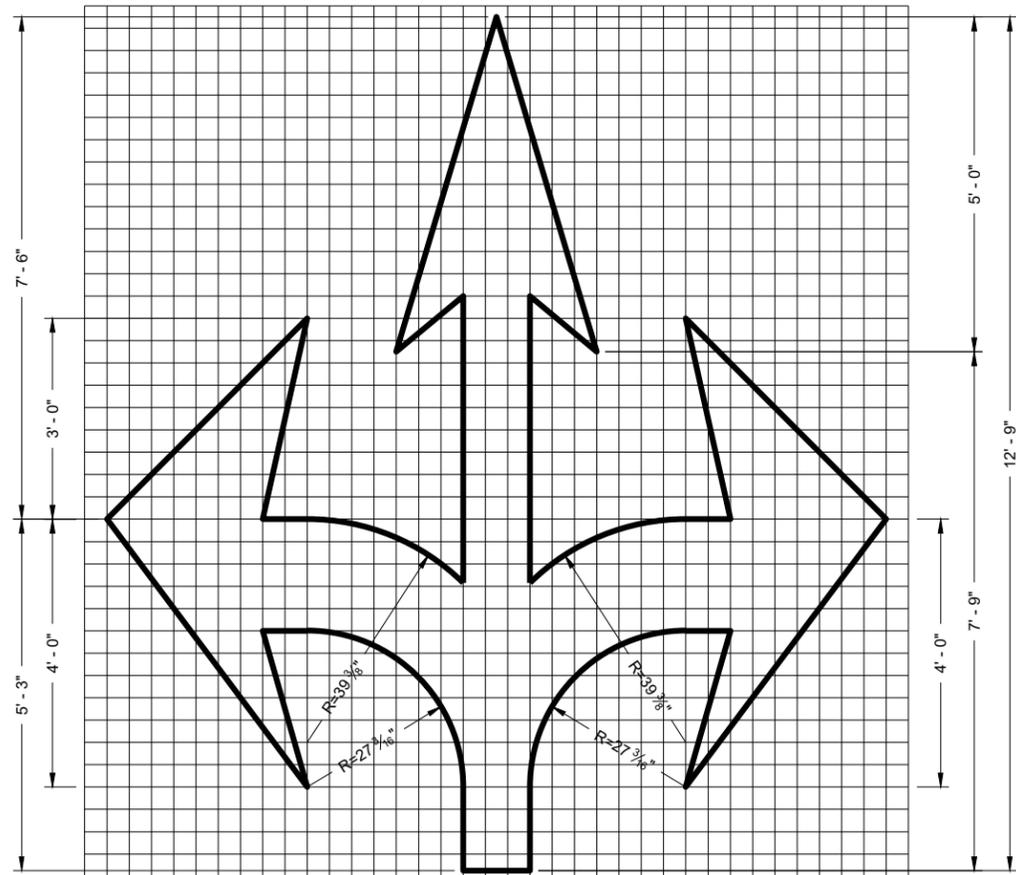
TYPE 3



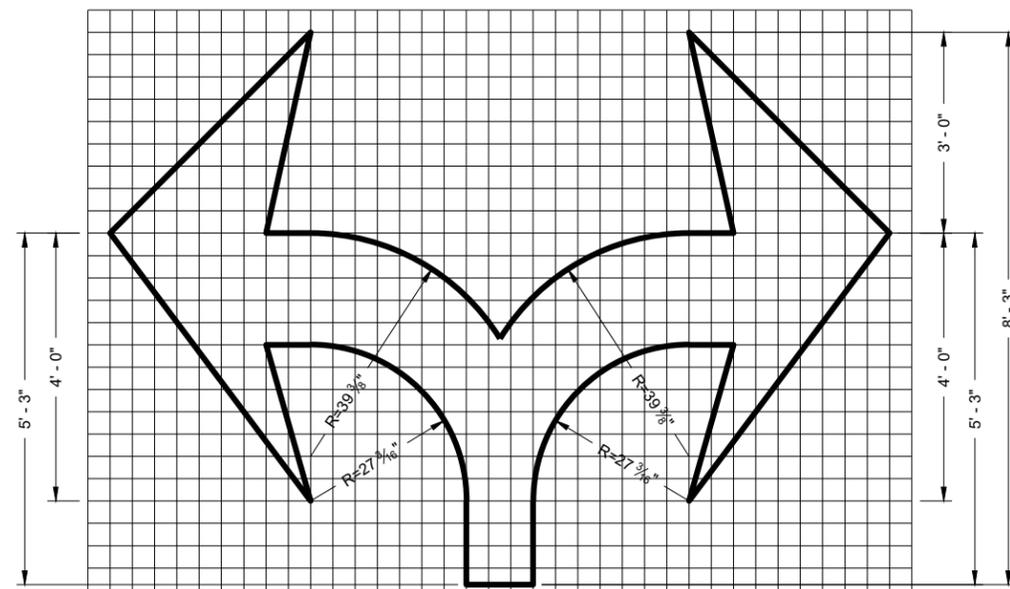
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

GENERAL NOTES

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

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

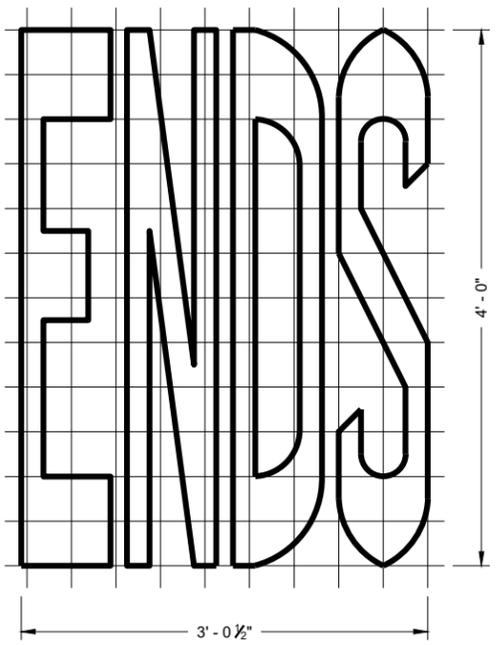
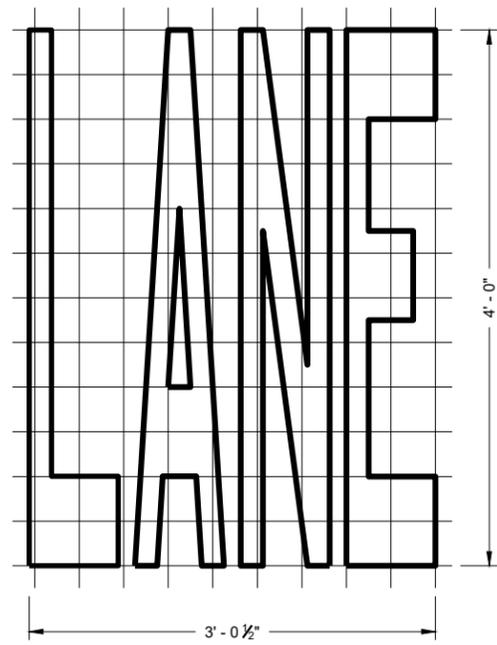
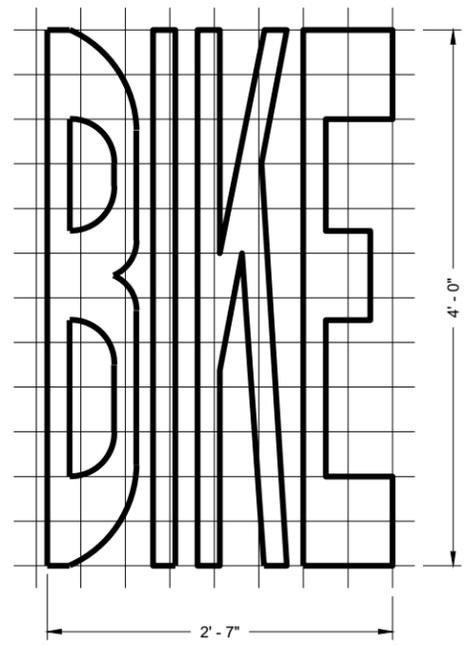
APPROVED

November 2019

DATE

FHWA

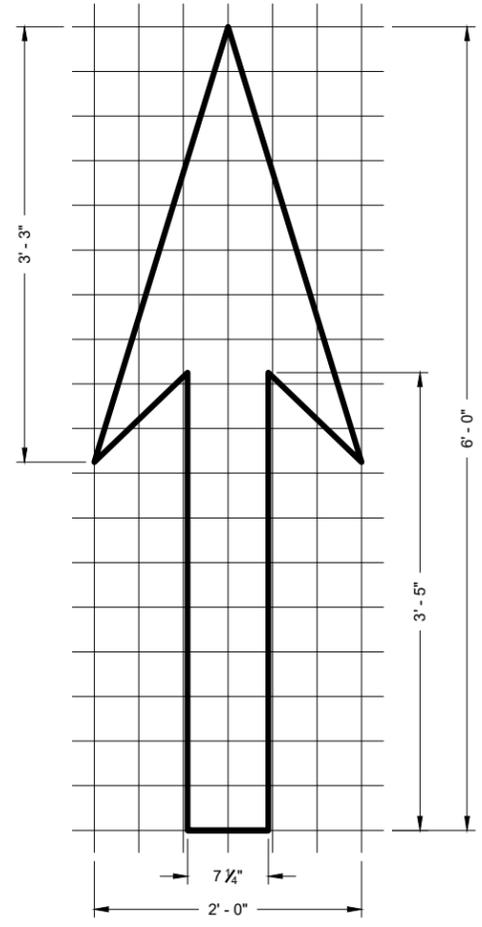
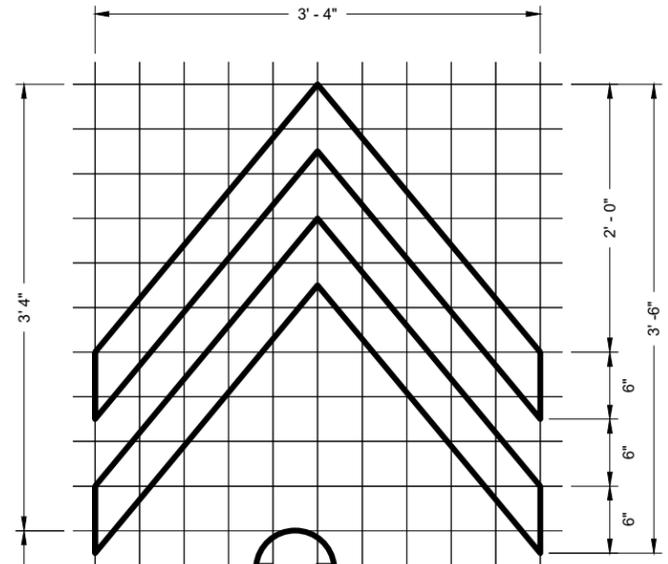
/s/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER



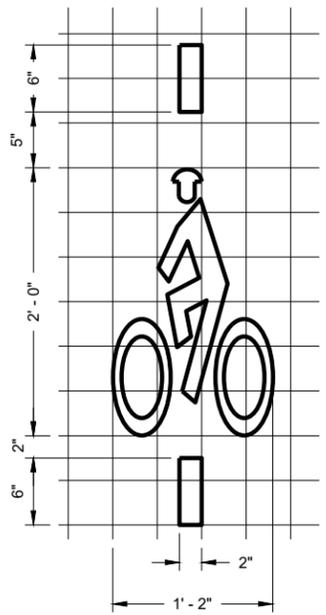
BIKE LANE WORDS

GENERAL NOTES

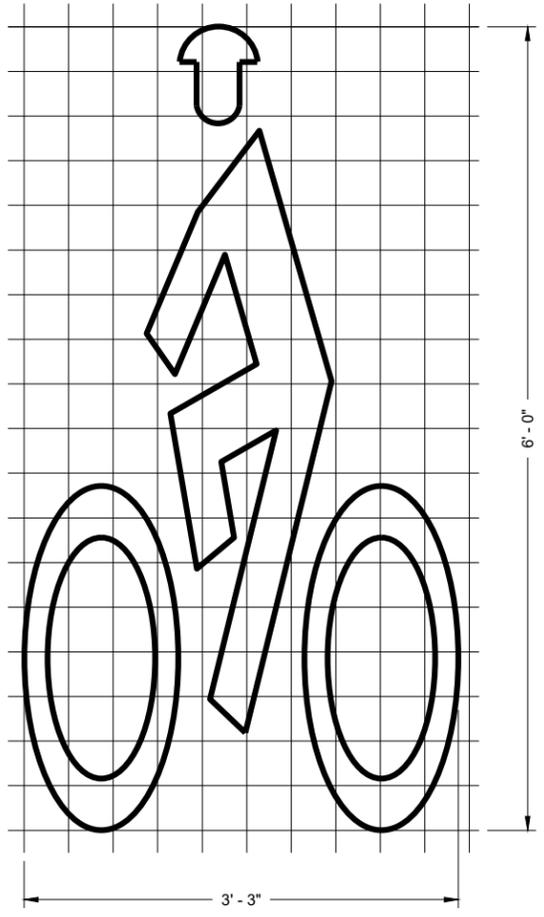
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



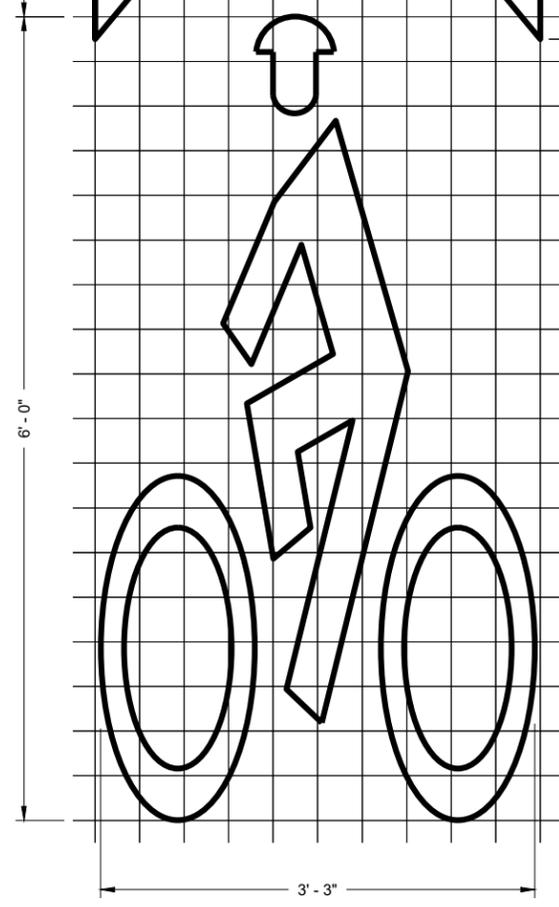
BIKE LANE ARROW



BIKE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL



BIKE LANE SYMBOL FOR SHARED LANE

6

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PAVEMENT MARKING FOR BIKE LANES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/s/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	

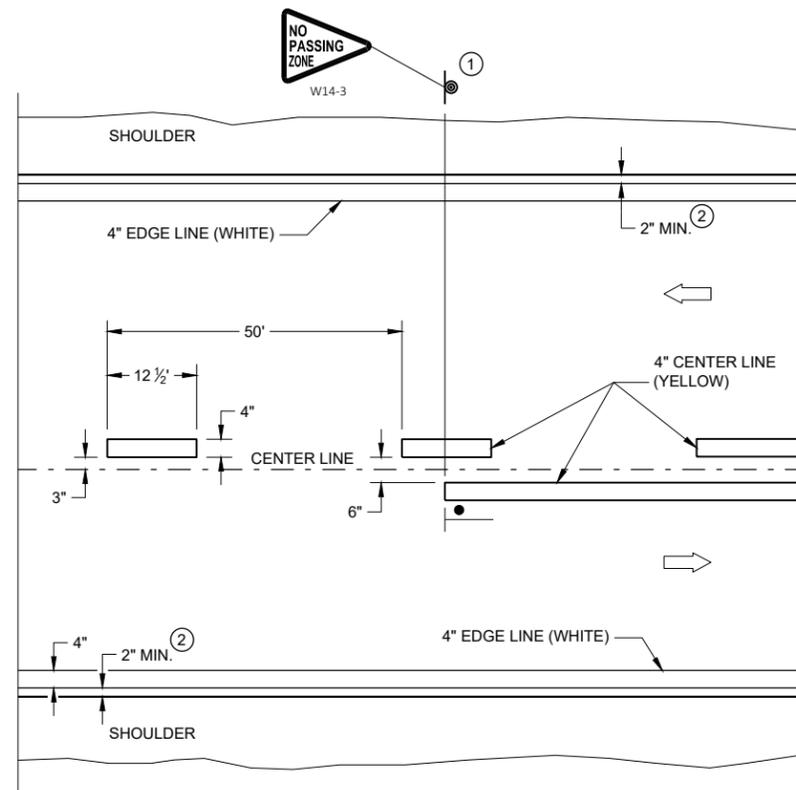
GENERAL NOTES

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

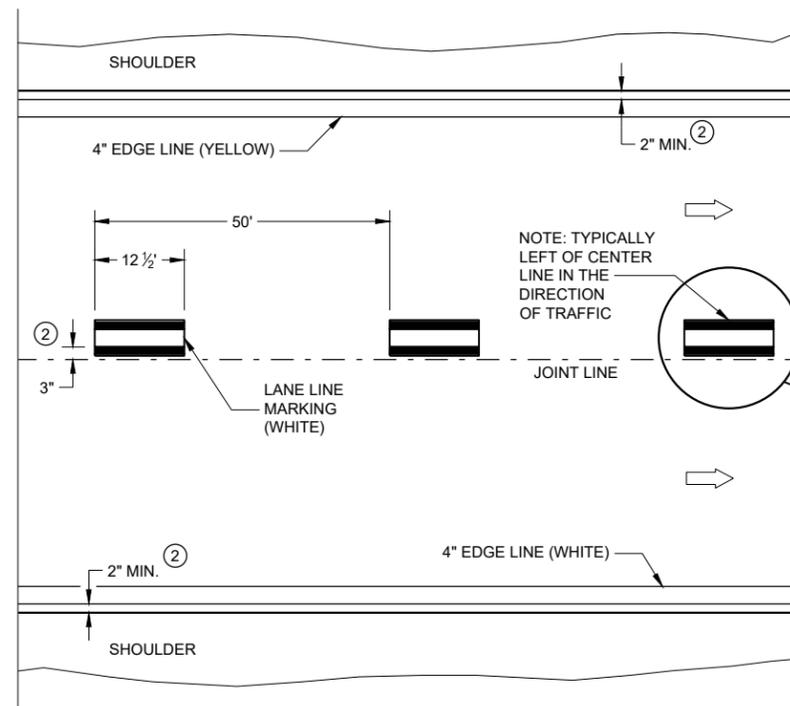
- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

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

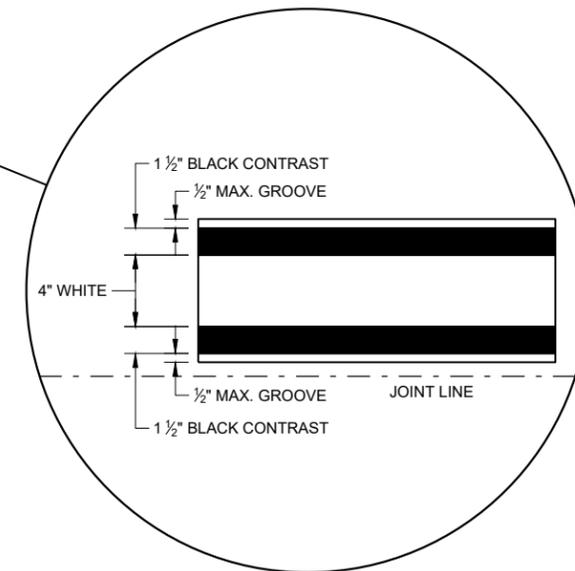


TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



PERMANENT LONGITUDINAL PAVEMENT MARKINGS

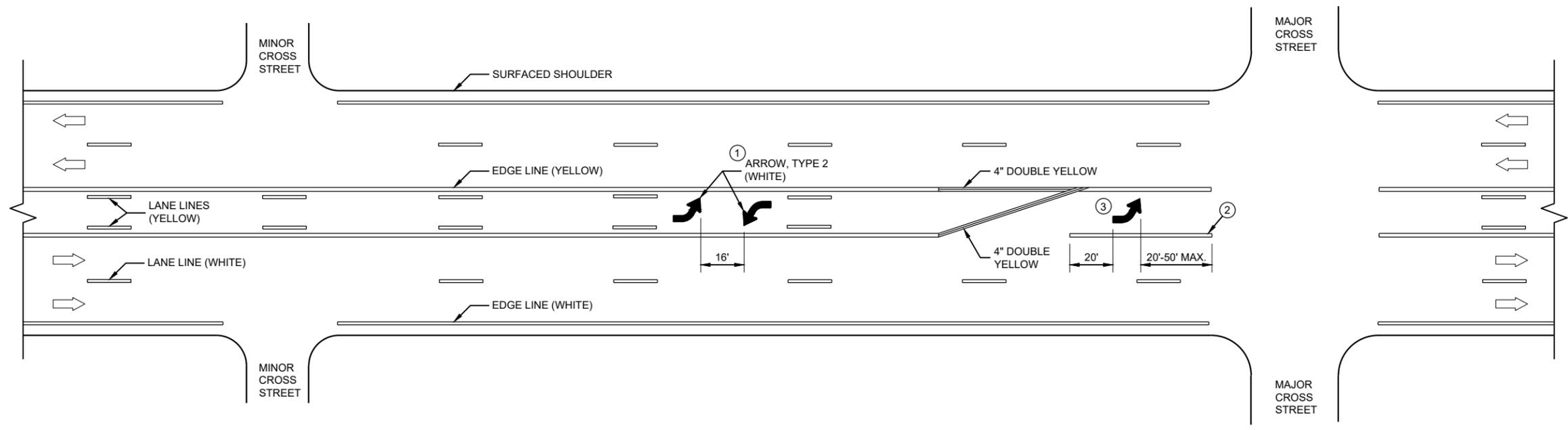
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

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

➡ DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

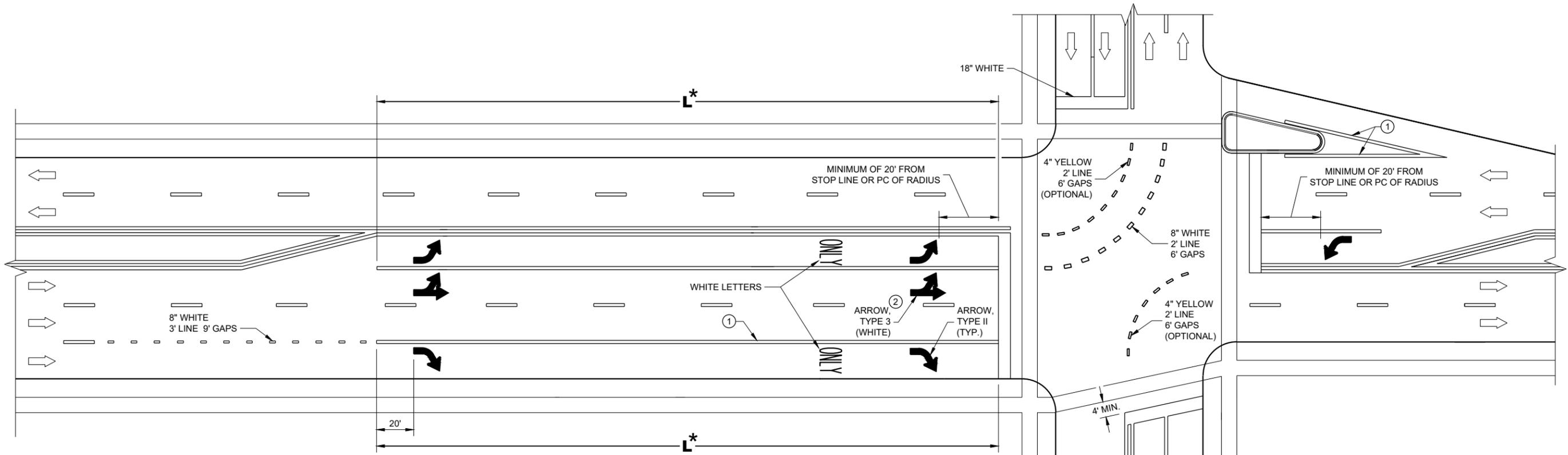
6

6

SDD 15C08 - 21c

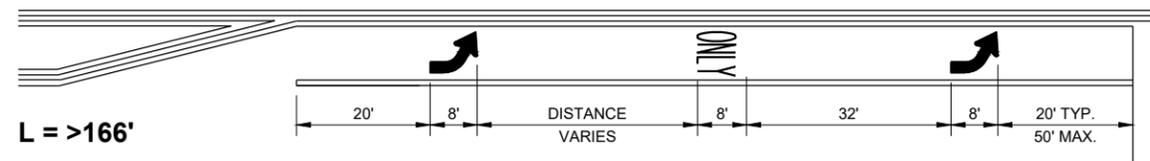
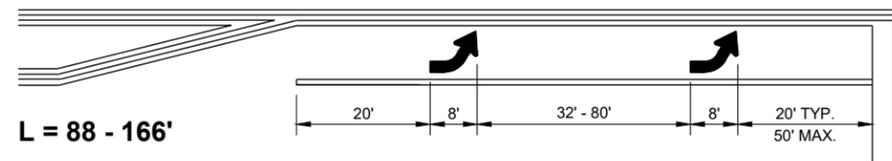
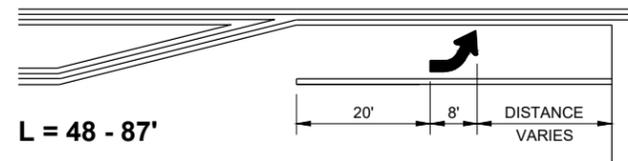
SDD 15C08 - 21c

<p>PAVEMENT MARKING (TURN LANES)</p>
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>



TURN LANE OPTIONS

LENGTH OF TURN BAY (L) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



*(SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

GENERAL NOTES

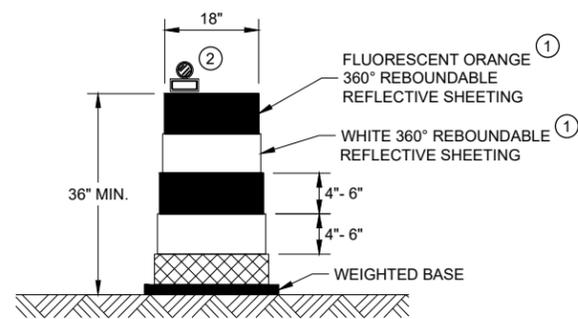
- ① 8" WHITE
- ② QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

➡ DIRECTION OF TRAFFIC

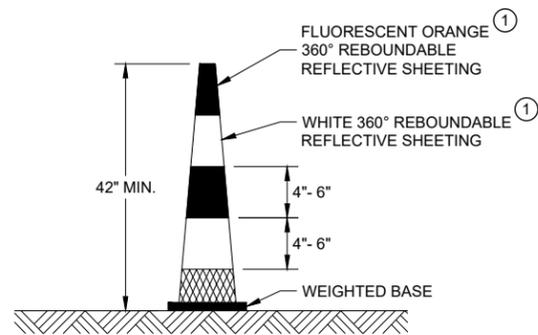
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DRUM

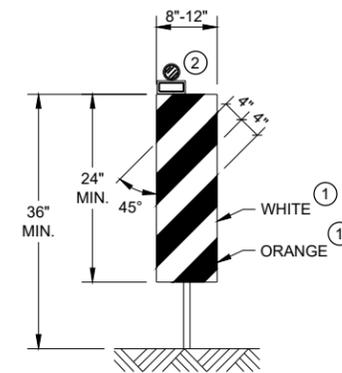


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

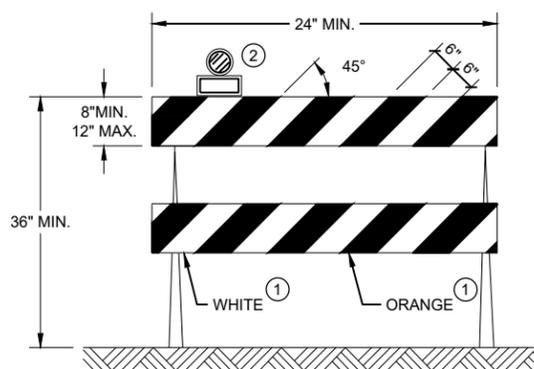
GENERAL NOTES

- 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.



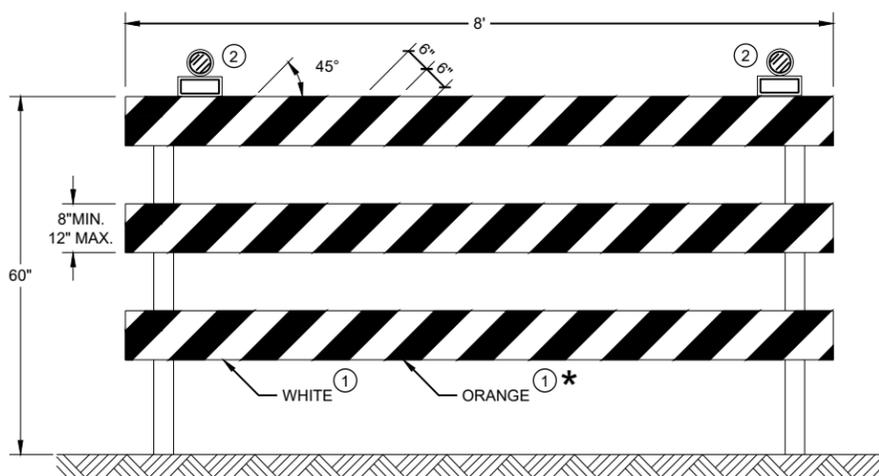
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III 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.

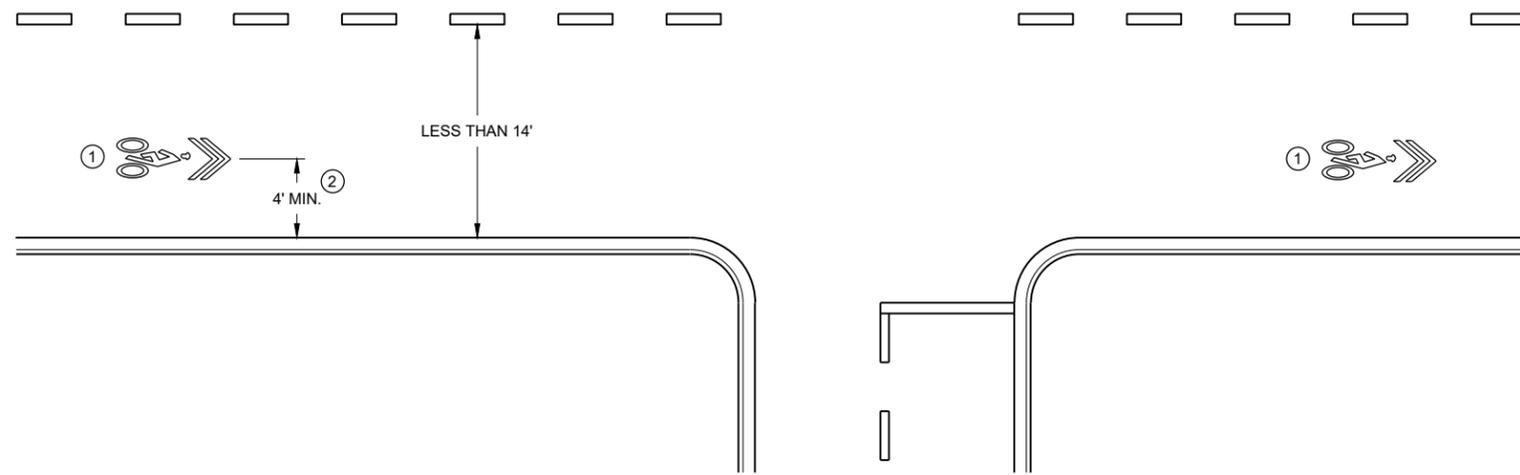
**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

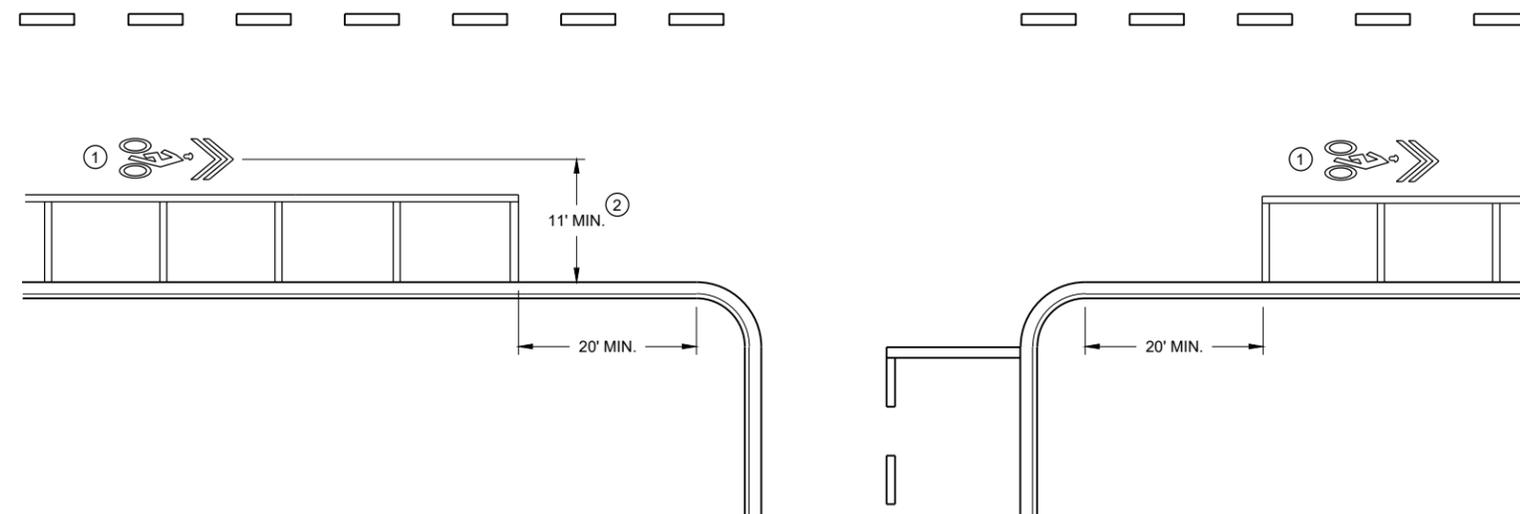
APPROVED
May 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

GENERAL NOTES

- ① MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.
- ② OR TO EDGE OF PAVEMENT WITHOUT CURB.



WITHOUT PARKING



WITH PARKING

**PAVEMENT MARKING
FOR SHARED LANE
35 MPH OR LESS**

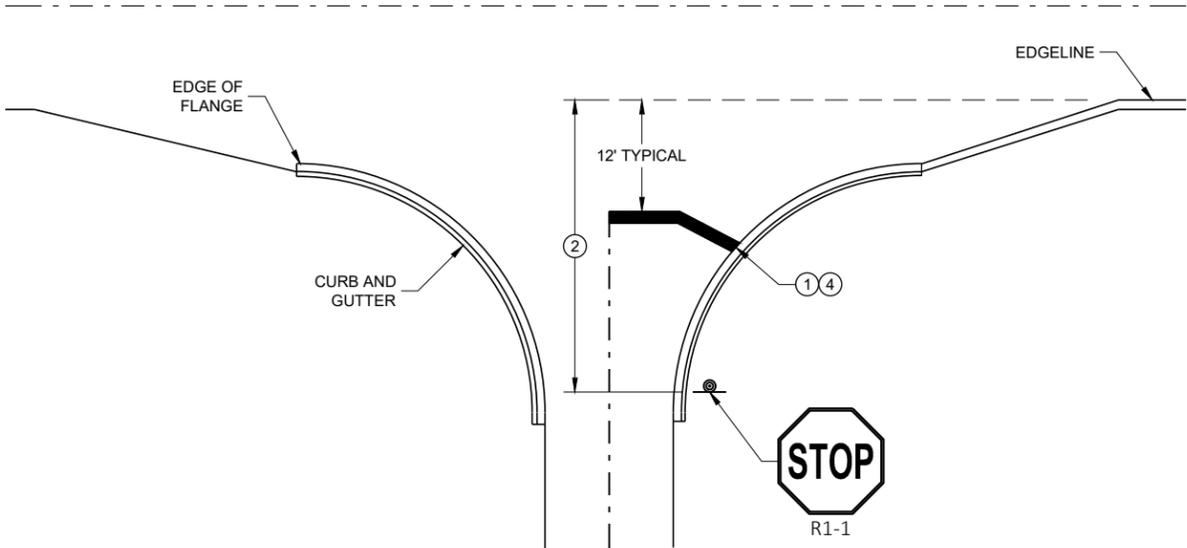
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING
ENGINEER

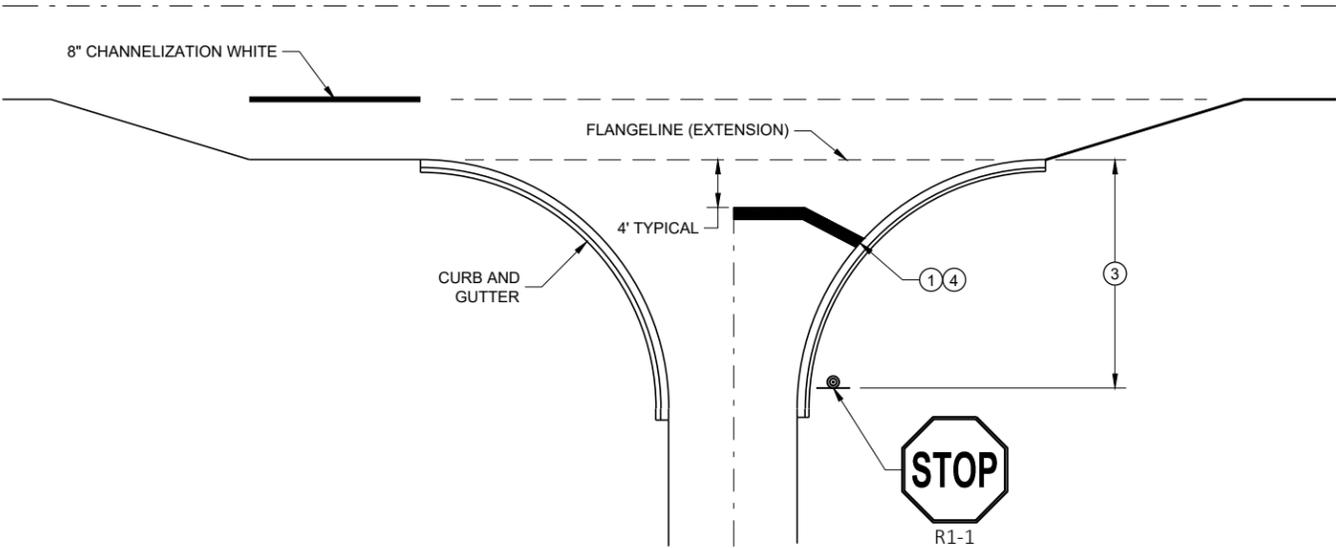
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

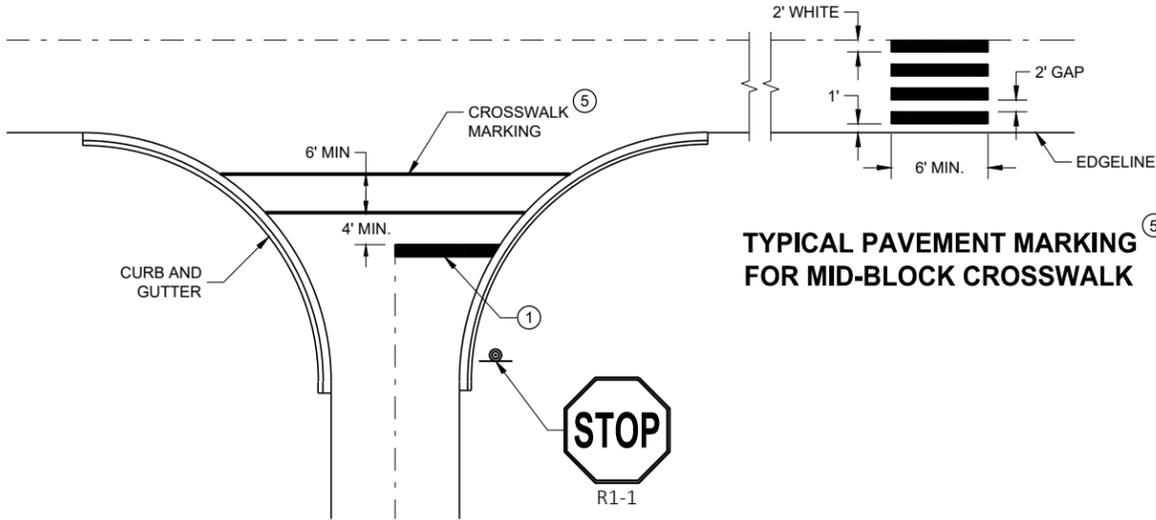
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

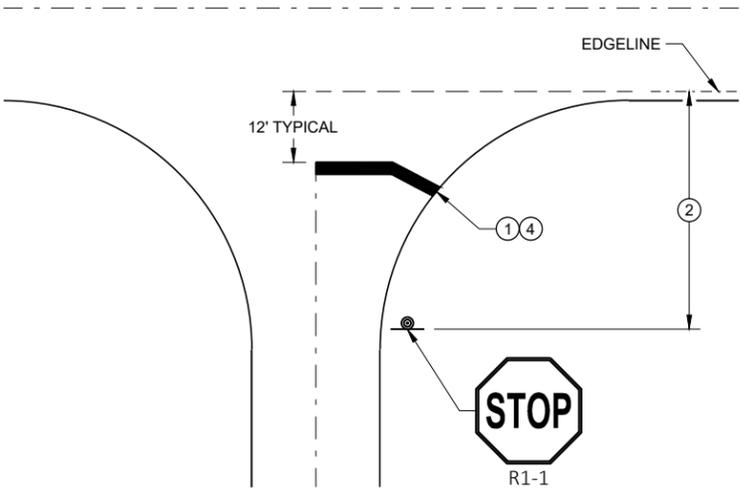


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK



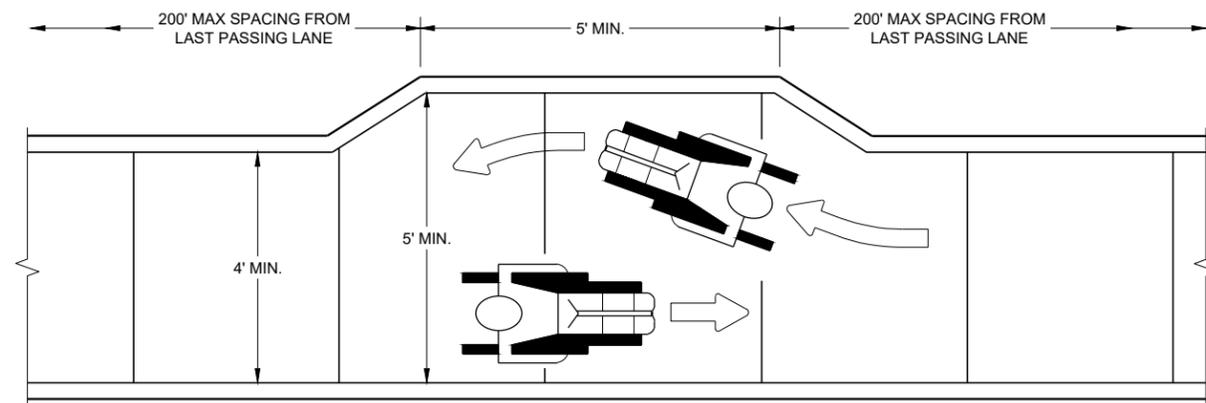
TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

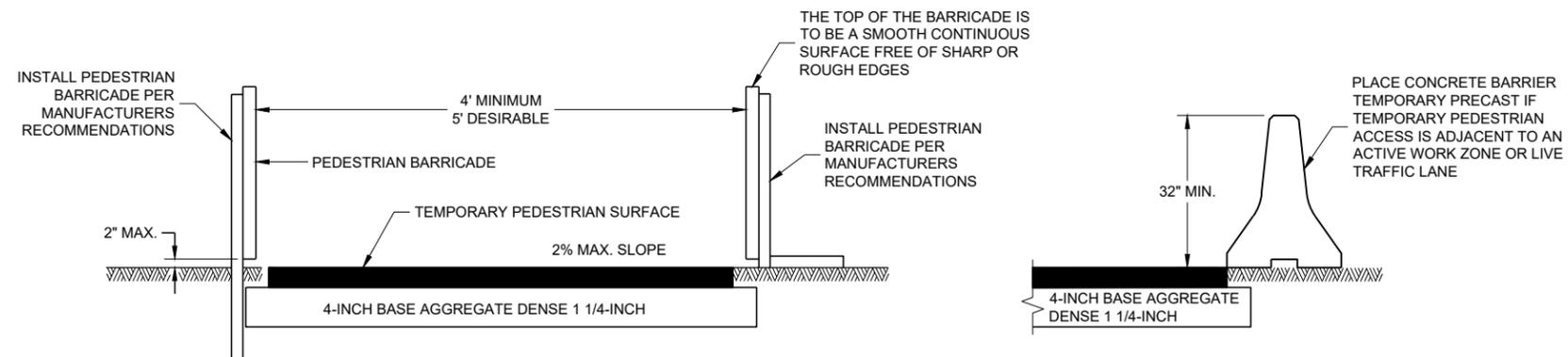
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER

FHWA



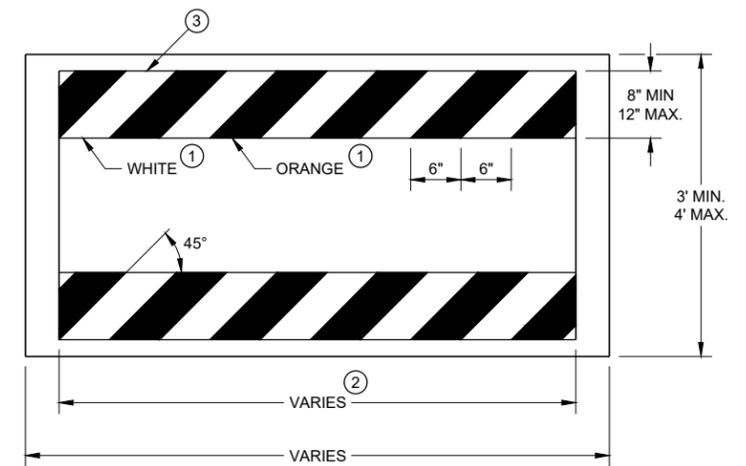
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

- BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST
- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- ③ PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- * USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

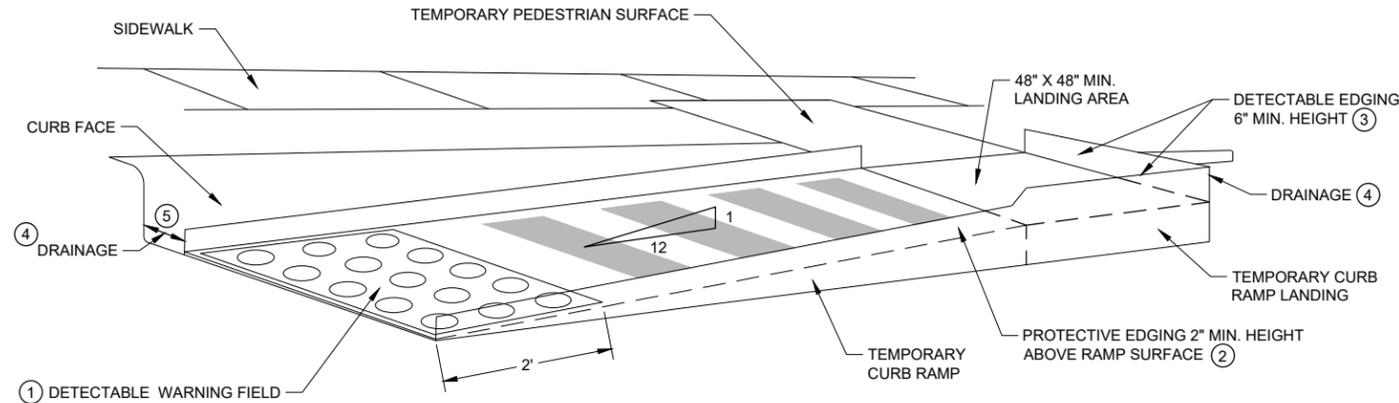


TEMPORARY PEDESTRIAN BARRICADE*

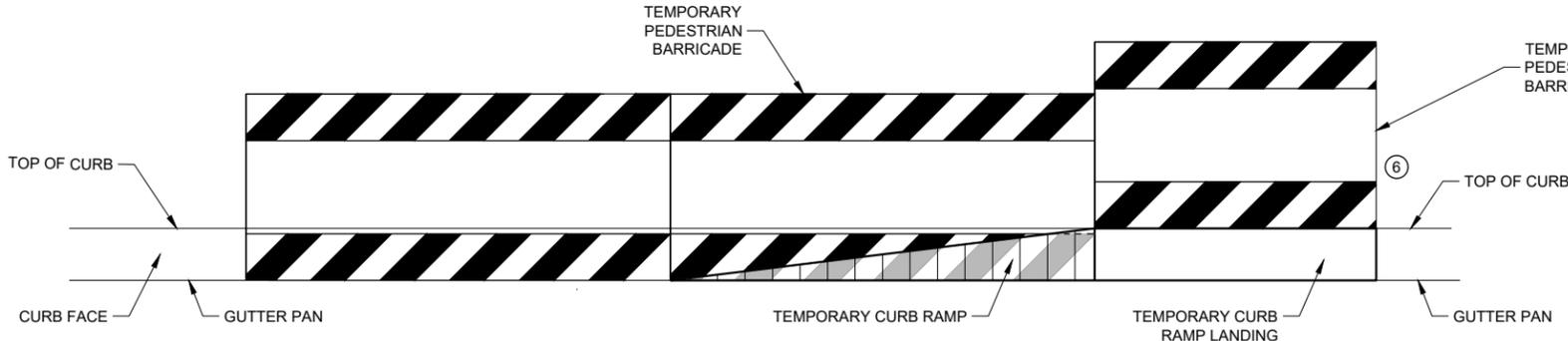
GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
 CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
 CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES MAY BE VERTICAL UP TO 1/4" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

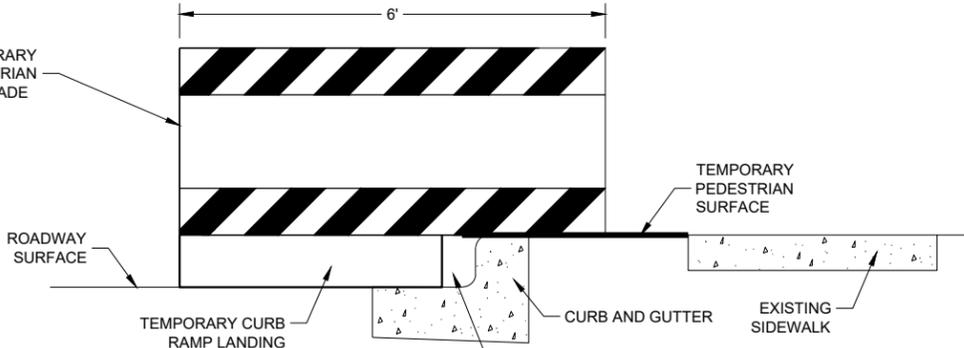
- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ 6" MINIMUM BETWEEN CURB FACE AND EDGE OF RAMP
- ⑥ IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



PERSPECTIVE VIEW



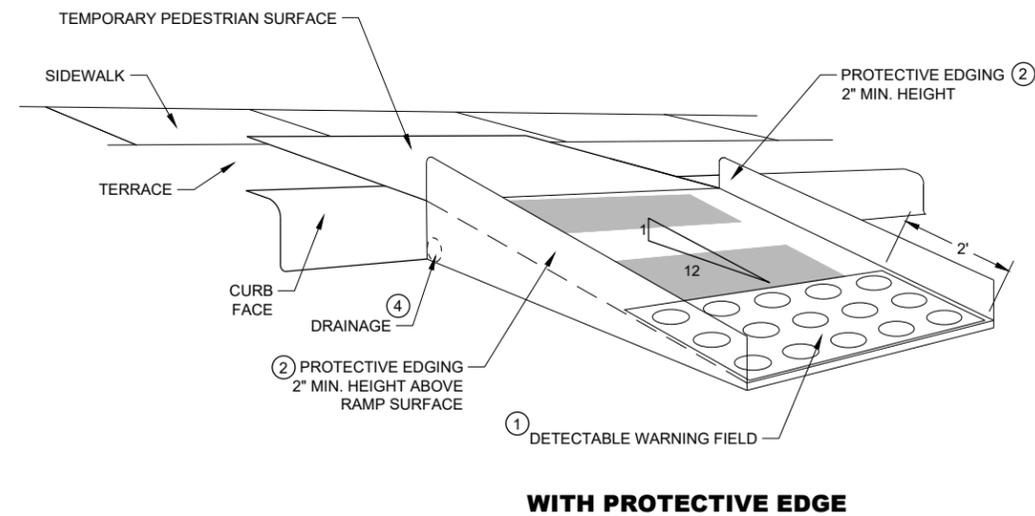
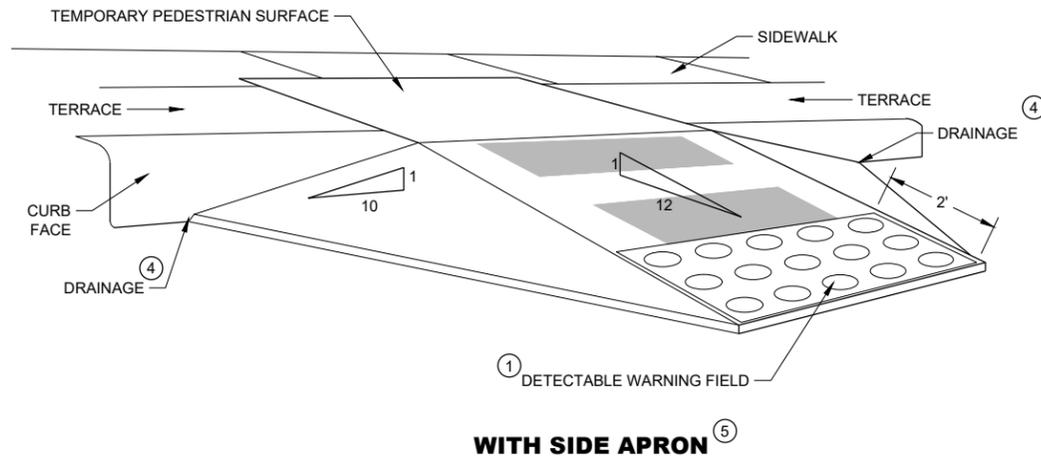
FRONT VIEW



SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

<p>TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION</p>
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>



TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

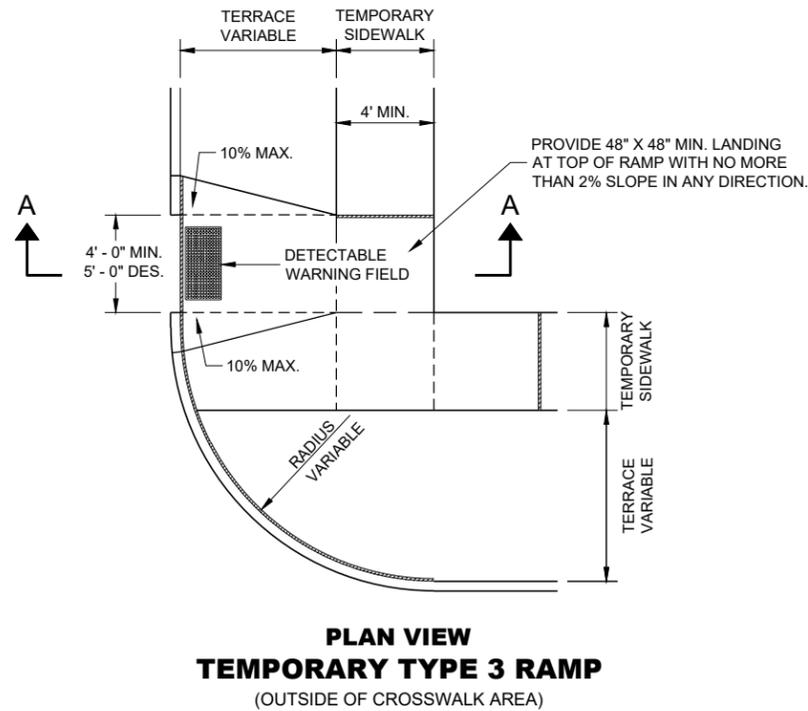
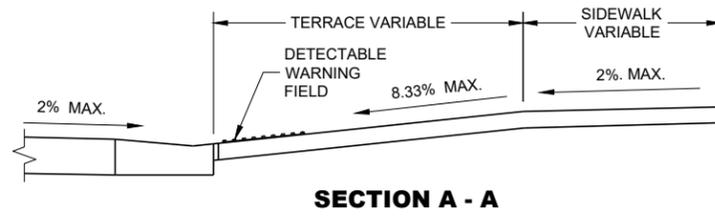
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES MAY BE VERTICAL UP TO 1/4" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

- ① INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- ⑤ CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES

- BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST
- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- ③ PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



6

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SDD 15D30 - 07d

SDD 15D30 - 07d

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

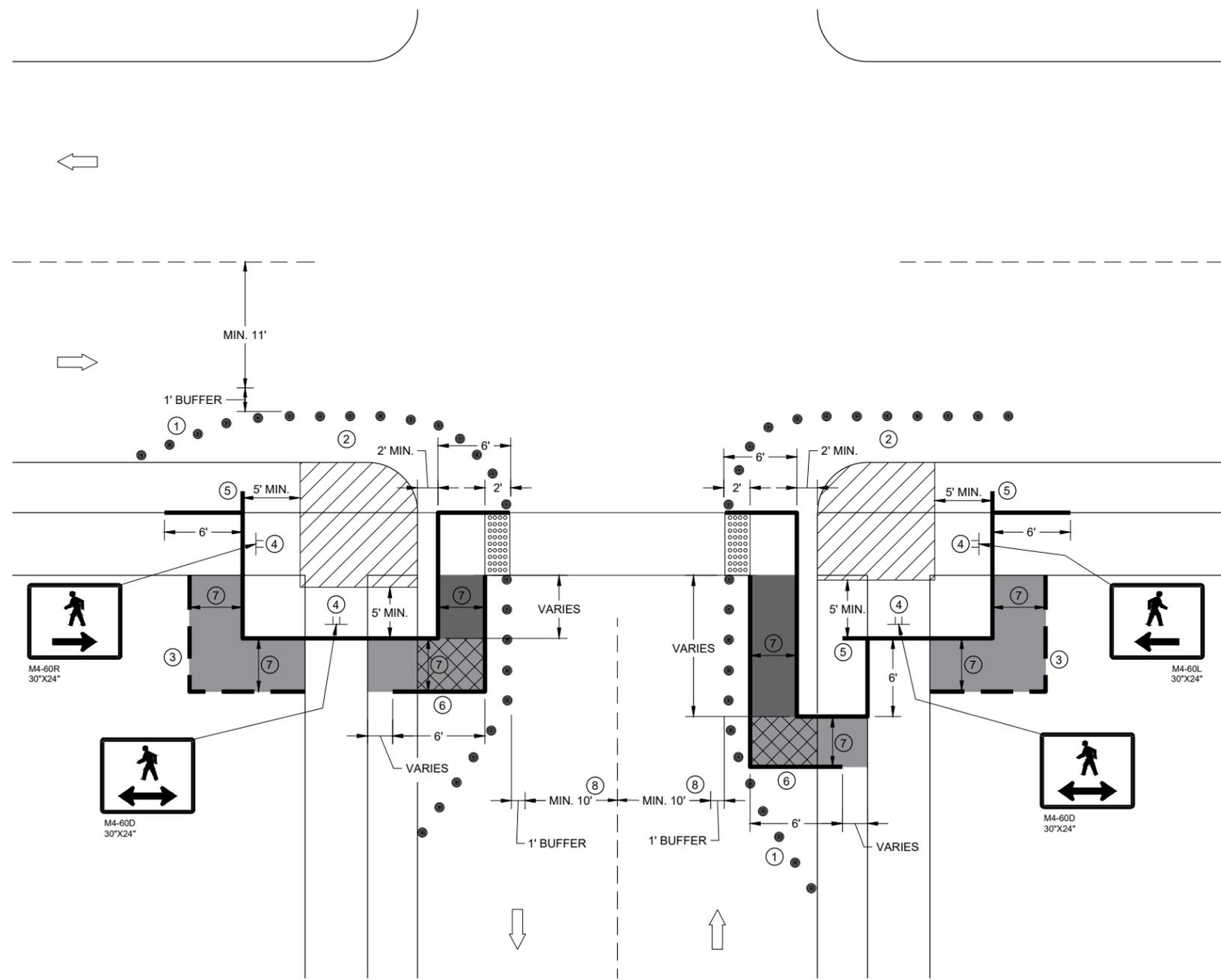
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- ② PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- ④ MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- ⑤ PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- ⑥ IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
- ⑦ 4 FEET MINIMUM, 5 FEET DESIRABLE
- ⑧ IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  WORK AREA
-  TEMPORARY CURB RAMP
-  TEMPORARY PEDESTRIAN SURFACE "A"
-  TEMPORARY PEDESTRIAN SURFACE "B"
-  TEMPORARY DETECTABLE WARNING FIELD
-  TEMPORARY PEDESTRIAN BARRICADE
-  OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
-  DIRECTION OF TRAFFIC



**CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE**

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

6

SDD 15D30 - 07i

SDD 15D30 - 07i

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

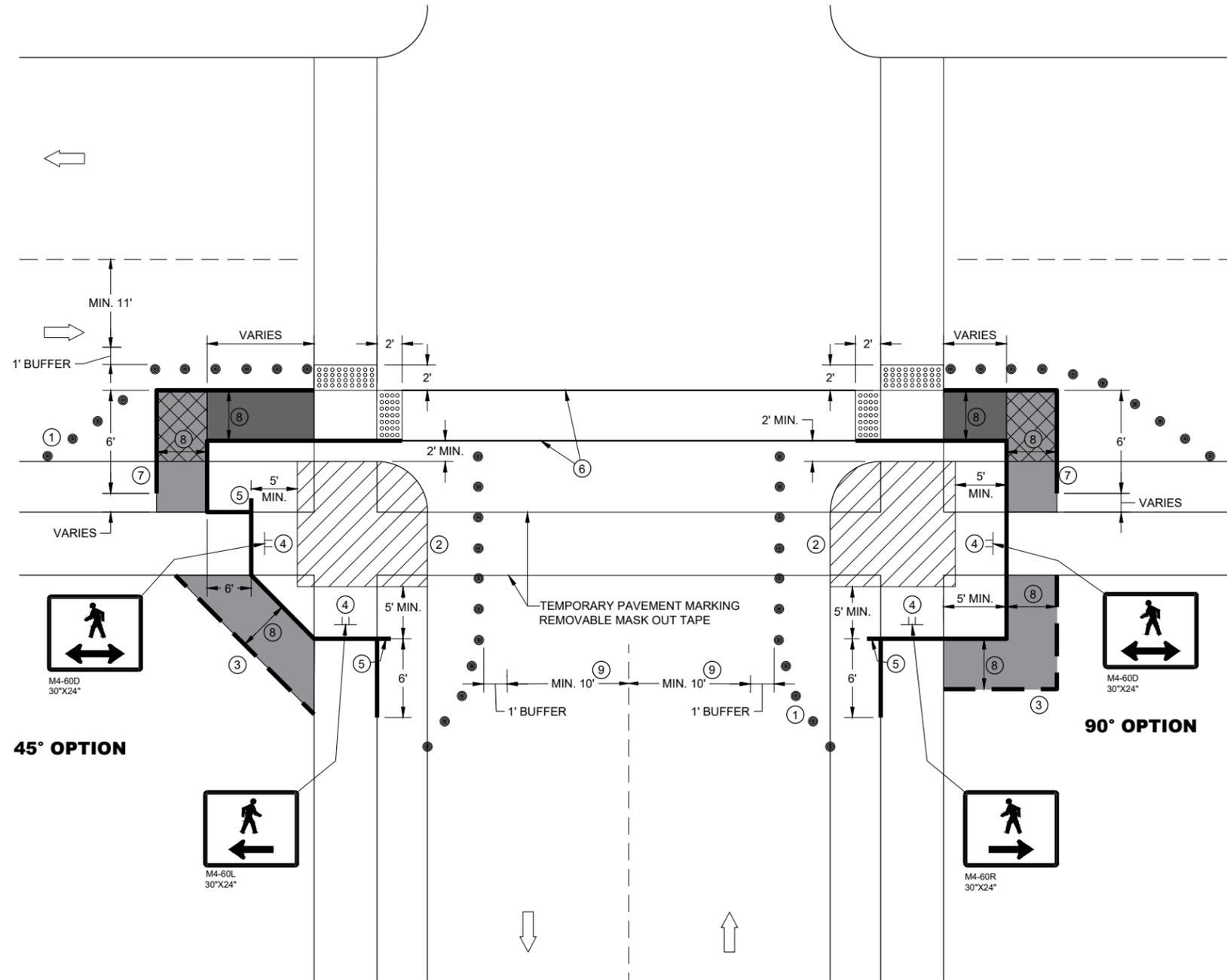
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
- ② PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
- ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
- ④ MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
- ⑤ PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
- ⑥ WHITE 6" TEMPORARY PAVEMENT MARKING
- ⑦ IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
- ⑧ 4 FEET MINIMUM, 5 FEET DESIRABLE
- ⑨ IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  WORK AREA
-  TEMPORARY CURB RAMP
-  TEMPORARY PEDESTRIAN SURFACE "A"
-  TEMPORARY PEDESTRIAN SURFACE "B"
-  TEMPORARY DETECTABLE WARNING FIELD
-  TEMPORARY PEDESTRIAN BARRICADE
-  OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
-  DIRECTION OF TRAFFIC



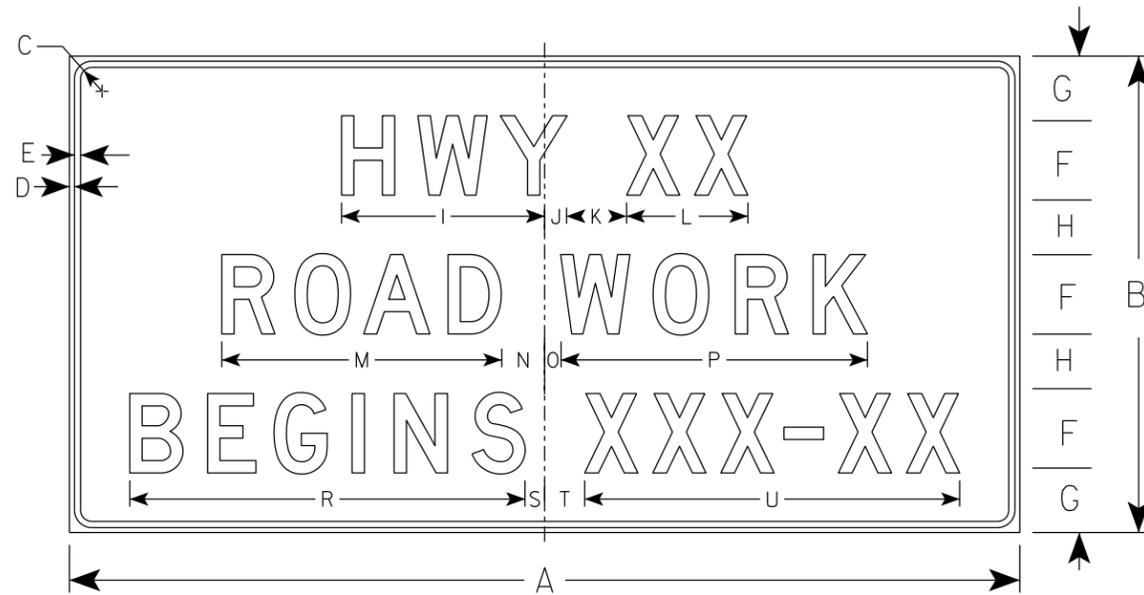
CURB RAMP PEDESTRIAN TRAFFIC CONTROL

**TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - D
4. Substitute appropriate numeral and adjust spacing to achieve proper balance.



G20-57

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																											
2																											
3	72	36	1 1/8	1/2	5/8	6	5	4	15 5/8	1 5/8	5	9 1/4	21 1/4	3 1/2	1 1/2	23 1/4		29 7/8	1 3/4	3 1/4	28 1/2						18.0
4	96	48	2 1/4	3/4	1	8	6 1/2	5 1/2	20 5/8	2 1/4	6	12 1/4	28 1/4	4 3/8	1 5/8	31		39 1/4	2	4	37 7/8						32.0
5																											

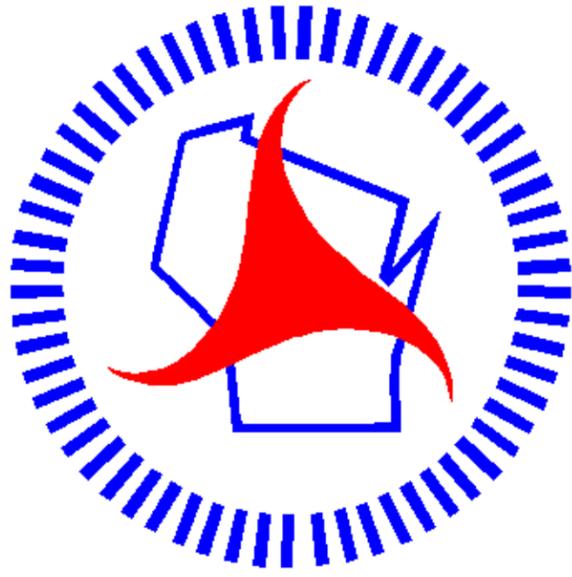
STANDARD SIGN
G20-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

DATE 1/22/19 PLATE NO. G20-57.3

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



Wisconsin Department of Transportation

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