WKE

SEPTEMBER 2022

PROJECT ID: 3330-07-70

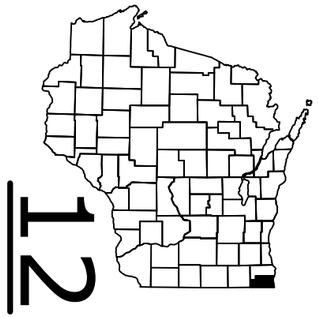
WITH: 3340-09-70

COUNTY: KENOSHA

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
~~Section No.~~	~~5~~	~~Plan and Profile~~
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
~~Section No.~~	~~9~~	~~Computer Earthwork Data~~
~~Section No.~~	~~9~~	~~Cross Sections~~

TOTAL SHEETS = 374



N

DESIGN DESIGNATION		STH 31
A.A.D.T. (2024)	=	35,200
A.A.D.T. (2044)	=	37,400
D.H.V.	=	-
D.D.	=	59/41
T.	=	7.5%
DESIGN SPEED (MPH)	=	50
ESALS	=	-

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3330-07-70	WISC 2022513	1

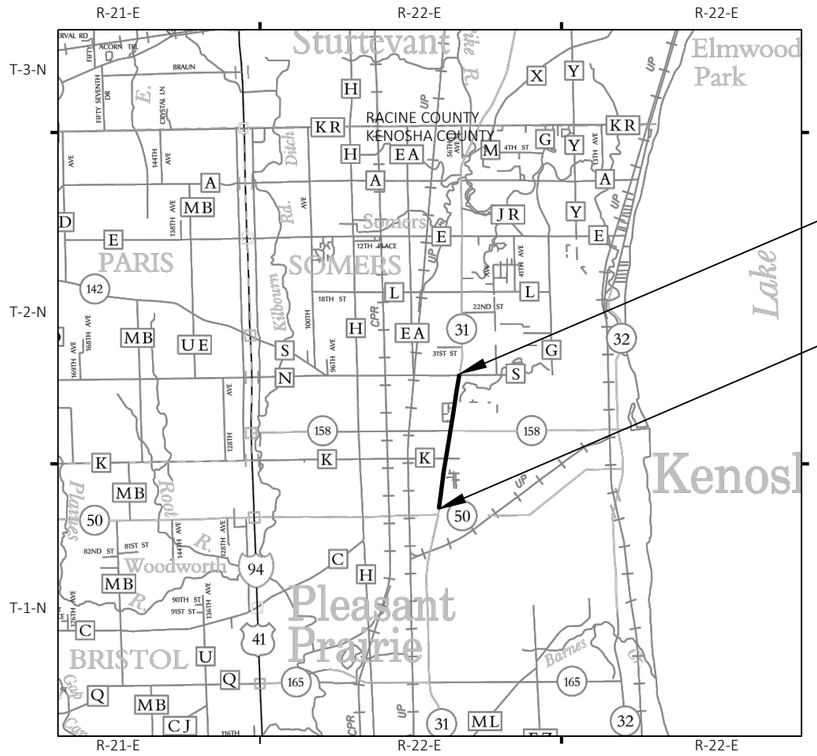
GREEN BAY ROAD - CITY OF KENOSHA

STH 50 TO CTH S

STH 31

KENOSHA COUNTY

STATE PROJECT NUMBER
3330-07-70



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 2.351 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), KENOSHA 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.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	STEVEN ROTIER
Project Manager	DOUG CAIN
Regional Examiner	
Regional Supervisor	BEN ERUCHALU

APPROVED FOR THE DEPARTMENT

DATE: 4/27/22 Douglas A Cain (Signature)

E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\010101_TI.DWG PLOT DATE : 7/19/2022 2:53 PM PLOT BY : ROTIER, STEVEN J PLOT NAME :

2

GENERAL NOTES

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED AND FERTILIZE TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.

EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

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. 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.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER.

FOR INLET AND CATCH BASIN STRUCTURES LOCATED IN THE CURB OR IN FRONT OF BARRIER, STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE FLOW LINE. MH STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE CENTER OF STRUCTURE. SEE CONSTRUCTION DETAILS.

CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER MONUMENT.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.

SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

RESHAPE, RESTORE AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE SALVAGE TOPSOILED, FERTILIZED, AND SEEDED AS DIRECTED BY THE ENGINEER.

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
CURB RAMP DETAILS
PLAN DETAILS
PERMANENT SIGNING
TRAFFIC SIGNAL REMOVAL
TRAFFIC SIGNAL TEMPORARY
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
ALIGNMENT

2

STANDARD ABBREVIATIONS

AP	ACCESS POINT	NOM	NOMINAL					FE	FIELD ENTRANCE	STA	STATION
AC	ACRE	NC	NORMAL CROWN	CFS	CUBIC FEET PER SECOND	PGL	PROFILE GRADE LINE	FL	FLOW LINE	SS	STORM SEWER
ADJ	ADJUST	N	NORTH	CY	CUBIC YARD	PL	PROPERTY LINE	FT	FOOT	SSPRC	STORM SEWER PIPE
AECPRC	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE	Y	NORTH GRID COORDINATE	CP	CULVERT PIPE	Q100	100-YEAR FLOW RATE	GN	GRID NORTH		REINFORCED CONCRETE
		NB	NORTHBOUND	CPCS	CULVERT PIPE CORRUGATED STEEL	R	RADIUS	HES	HIGH EARLY STRENGTH	ST	STREET
AH	AHEAD	NO	NUMBER	CPRC	CULVERT PIPE REINFORCED CONCRETE	RR	RAILROAD	HP	HIGH POINT	STR	STRUCTURE OR STRUCTURAL
AC	ASPHALT CEMENT	OPT	OPTIONAL	CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL	R	RANGE	HW	HIGH WATER	SE	SUPERELEVATION
ASPH	ASPHALTIC	OD	OUTSIDE DIAMETER			R/L	REFRENCE LINE	HMA	HOT MIX ASPHALT	T	TANGENT
ACP	ASPHALTIC CONCRETE PAVEMENT	PAVT	PAVEMENT	C & G	CURB AND GUTTER	REINF	REINFORCING OR REINFORCEMENT	CWT	HUNDREDWEIGHT	TEMP	TEMPORARY
AVG	AVERAGE	PLE	PERMANENT LIMITED EASEMENT	D	DEGREE OF CURVE	REQD	REQUIRED	HWD	HYDRANT	TI	TEMPORARY INTEREST
ADT	AVERAGE DAILY TRAFFIC	PACS	PIPE ARCH CORRUGATED STEEL	DHV	DESIGN HOUR VOLUME	RT	RIGHT	INL	INLET	TLE	TEMPORARY LIMITED EASEMENT
BK	BACK	P	POINT	DIA	DIAMETER	R/W	RIGHT-OF-WAY	ID	INSIDE DIAMETER	t	TON
BAD	BASE AGGREGATE DENSE	PC	POINT OF CURVATURE	DD	DIRECTIONAL DISTRIBUTION	RD	ROAD	I	INTERSECTION ANGLE	T	TOWN
BM	BENCHMARK	PI	POINT OF INTERSECTION	DWY	DRIVEWAY	RDWY	ROADWAY	INV	INVERT	T/L	TRANSIT LINE
CB	CATCH BASIN	PT	POINT OF TANGENCY	E	EAST	SEC	SECTION	IP	IRON PIPE OR PIN	T	TRUCKS (PERCENT OF)
C/L	CENTER LINE	PVC	POINT OF VERTICAL CURVE	X	EAST GRID COORDINATE	SHLDR	SHOULDER	JT	JOINT	TYP	TYPICAL
C/L CONST	CENTER LINE CONSTRUCTION	PVI	POINT OF VERTICAL INTERSECTION	EB	EASTBOUND	S	SOUTH	LT	LEFT	USH	UNITED STATES HIGHWAY
Δ	CENTRAL ANGLE OR DELTA	PVT	POINT OF VERTICAL TANGENCY	EL	ELEVATION	SB	SOUTHBOUND	LC	LENGTH OF CURVE	VAR	VARIABLE
CL	CLASS	PVC	POLYVINYL CHLORIDE	ESALS	EQUIVALENT SINGLE AXLE LOADS	SQ	SQUARE	LF	LINEAR FOOT	V	VELOCITY OF DESIGN SPEED
CONC	CONCRETE	PCC	PORTLAND CEMENT CONCRETE	EXC	EXCAVATION	SF	SQUARE FEET	LP	LOW POINT	VERT	VERTICAL
CONST	CONSTRUCTION	LB	POUND	EBS	EXCAVATION BELOW SUBGRADE	SW	SIDEWALK	LS	LUMP SUM	VC	VERTICAL CURVE
CMCP	CORRUGATED METAL CULVERT PIPE	PSF	POUNDS PER SQUARE FOOT	EXIST	EXISTING	SY	SQUARE YARD	MH	MANHOLE	VOL	VOLUME
CTH	COUNTY TRUNK HIGHWAY	PSI	POUNDS PER SQUARE INCH	FPS	FEET PER SECOND	SDD	STANDARD DETAIL DRAWINGS	MAX	MAXIMUM	WM	WATERMAIN
CABC	CRUSHED AGGREGATE BASE COURSE	PE	PRIVATE ENTRANCE	FERT	FERTILIZE	STH	STATE TRUNK HIGHWAYS	MGAL	MEGAGALLON	WV	WATER VALVE
								MPH	MILES PER HOUR	W	WEST
								MIN	MINIMUM	WB	WESTBOUND
								MON	MONUMENT	YD	YARD

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

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	GENERAL NOTES	SHEET 2	E

UTILITY CONTACTS

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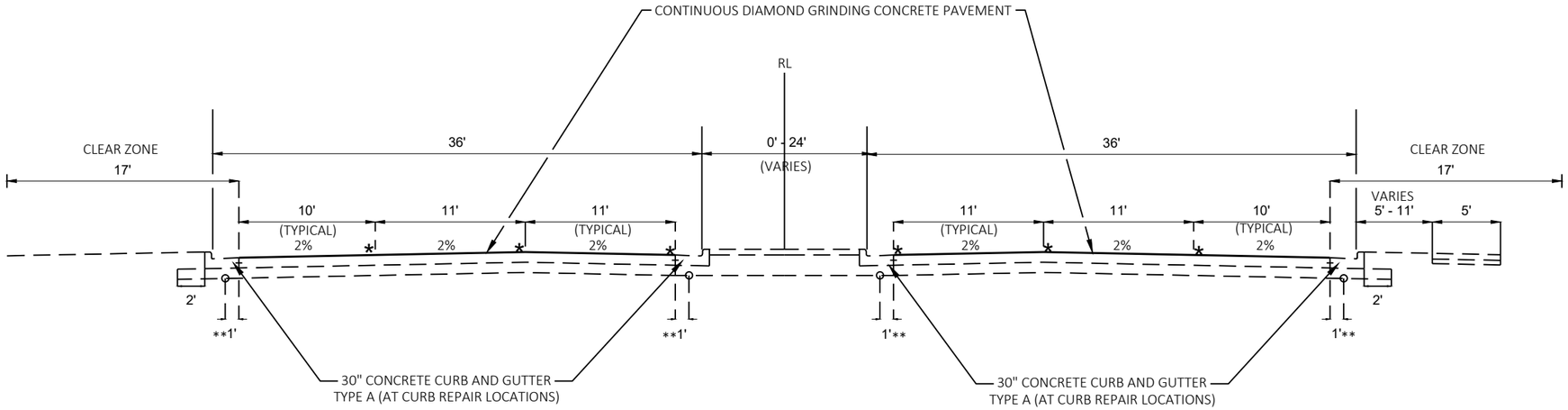
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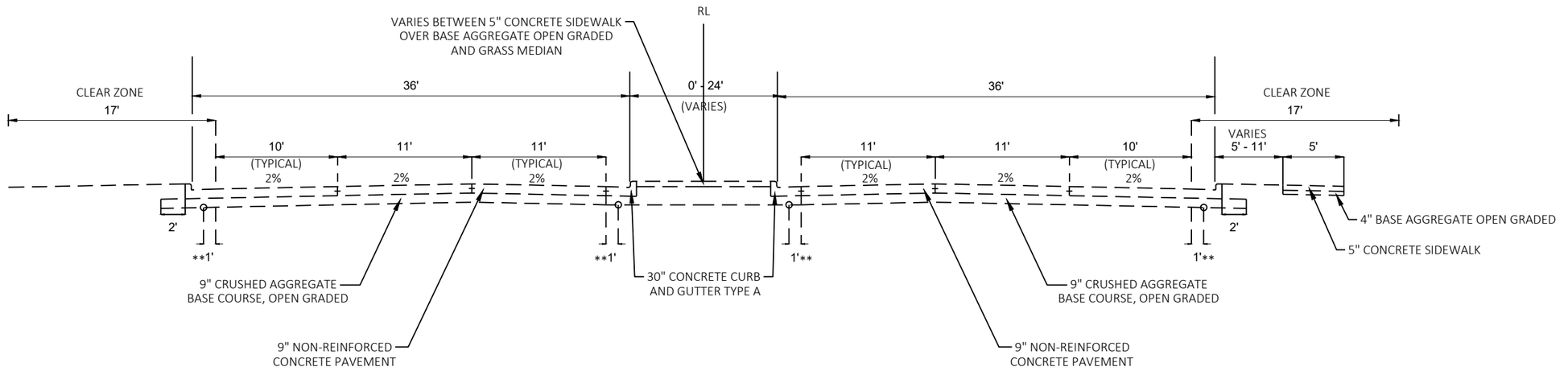
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - PO

PLOT DATE : 7/19/2022 2:57 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : Custom



FINISHED TYPICAL SECTION
STH 31
STA 312+88 TO STA 426+60 (SB)
STA 312+88 TO STA 427+42 (NB)



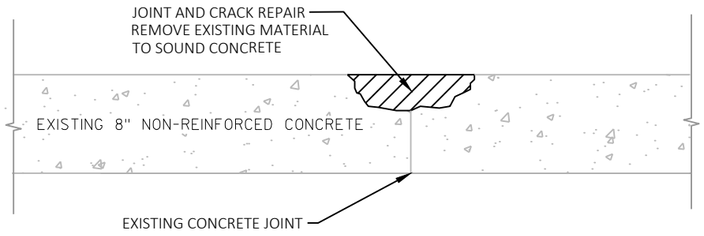
EXISTING TYPICAL SECTION
STH 31

STA 312+88 TO STA 437+00

✱ JOINT AND CRACK REPAIR
** 6" UNDERDRAIN

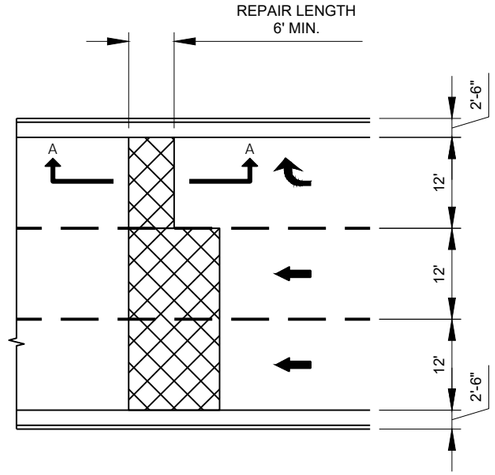
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TYPICAL SECTIONS	SHEET 5	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - TypicalSection
PLOT DATE : 7/19/2022 2:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:10 FT

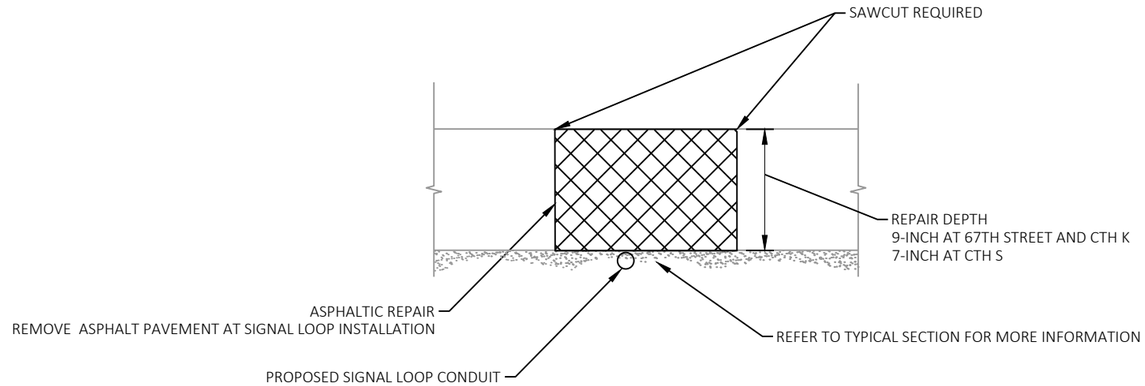


JOINT AND CRACK REPAIR DETAIL

LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD



PLAN VIEW



SECTION A-A

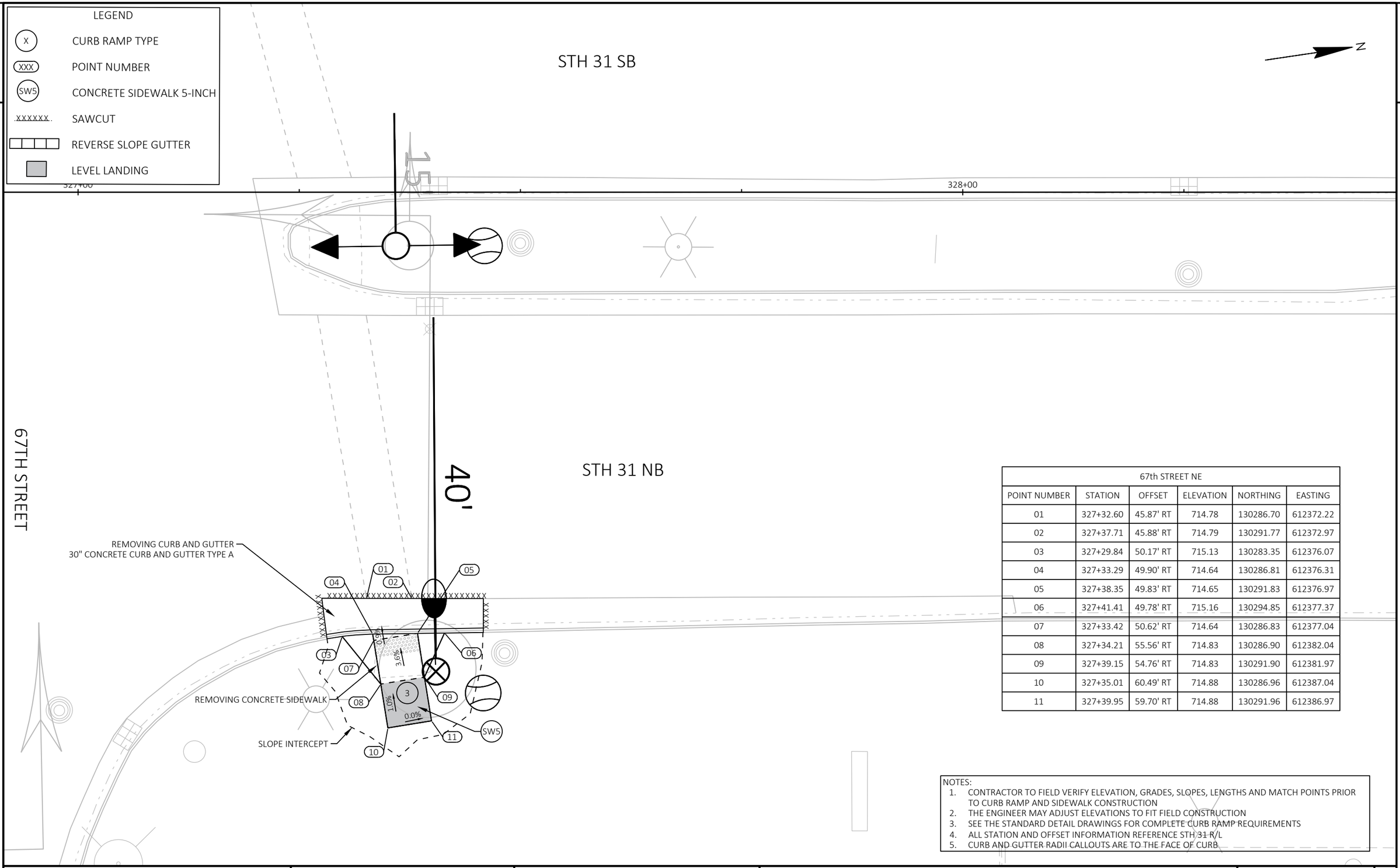
ASPHALTIC REPAIR
SEE PLAN DETAILS FOR LOCATIONS
AND SIZES

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	CONSTRUCTION DETAILS	SHEET 6	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021001_CD.DWG
LAYOUT NAME - 01
PLOT DATE : 7/19/2022 2:59 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

LEGEND

- X — CURB RAMP TYPE
- XXX — POINT NUMBER
- SW5 — CONCRETE SIDEWALK 5-INCH
- xxxxxx — SAWCUT
- REVERSE SLOPE GUTTER
- LEVEL LANDING



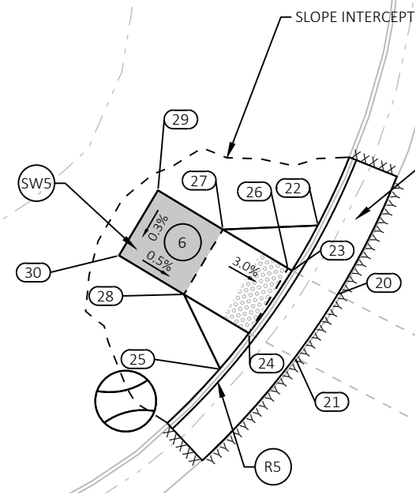
67th STREET NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
01	327+32.60	45.87' RT	714.78	130286.70	612372.22
02	327+37.71	45.88' RT	714.79	130291.77	612372.97
03	327+29.84	50.17' RT	715.13	130283.35	612376.07
04	327+33.29	49.90' RT	714.64	130286.81	612376.31
05	327+38.35	49.83' RT	714.65	130291.83	612376.97
06	327+41.41	49.78' RT	715.16	130294.85	612377.37
07	327+33.42	50.62' RT	714.64	130286.83	612377.04
08	327+34.21	55.56' RT	714.83	130286.90	612382.04
09	327+39.15	54.76' RT	714.83	130291.90	612381.97
10	327+35.01	60.49' RT	714.88	130286.96	612387.04
11	327+39.95	59.70' RT	714.88	130291.96	612386.97

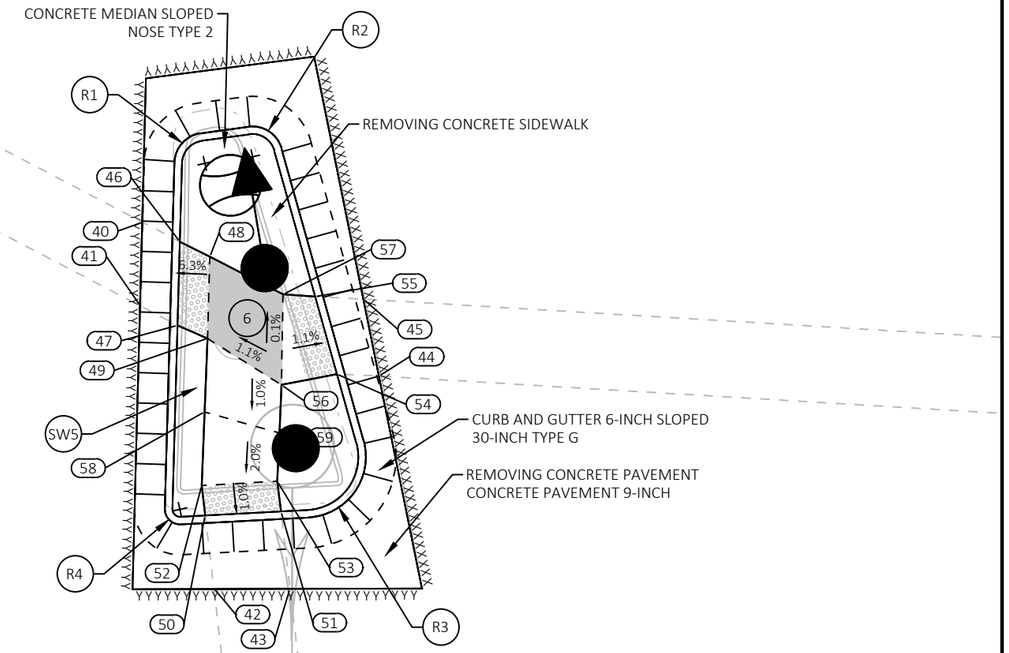
NOTES:
1. CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION
3. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS
4. ALL STATION AND OFFSET INFORMATION REFERENCE STH 31 R/L
5. CURB AND GUTTER RADII CALLOUTS ARE TO THE FACE OF CURB

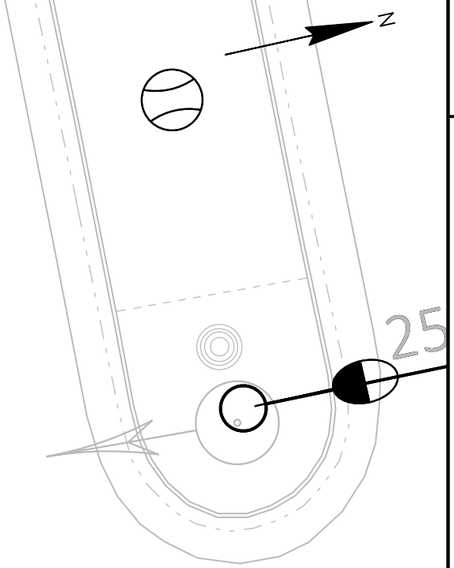
LEGEND

- X — CURB RAMP TYPE
- XXX — POINT NUMBER
- SW5 — CONCRETE SIDEWALK 5-INCH
- XXXXXX — SAWCUT
- REVERSE SLOPE GUTTER
- LEVEL LANDING

CTH S







RADIUS TABLE (CENTER OF RADIUS)

POINT	STATION	OFFSET	RADIUS
R1	434+79.88	88.69' LT	2.0'
R2	434+83.04	89.13' LT	2.0'
R3	434+86.53	69.32' LT	4.0'
R4	434+78.27	65.86' LT	1.0'
R5	434+13.94	121.13' LT	49.5'

CTHS-ISLND-SW

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
40	434+75.78	84.80' LT	728.09	140887.41	614125.09
41	434+75.63	79.28' LT	728.08	140886.06	614130.44
42	434+80.52	60.64' LT	728.06	140886.74	614149.70
43	434+85.55	60.62' LT	728.09	140891.64	614150.82
44	434+91.39	74.67' LT	728.24	140900.43	614138.39
45	434+90.36	79.74' LT	728.24	140900.53	614133.22
46	434+78.24	83.51' LT	728.13	140889.53	614126.89
47	434+78.10	78.00' LT	728.12	140888.18	614132.24
48	434+80.22	82.53' LT	728.25	140891.24	614128.28
49	434+80.07	77.13' LT	728.25	140889.92	614133.51
50	434+79.94	65.45' LT	728.13	140887.24	614144.88
51	434+84.95	65.73' LT	728.14	140892.18	614145.71
52	434+79.70	67.44' LT	728.15	140887.43	614142.89
53	434+84.70	67.72' LT	728.16	140892.37	614143.71
54	434+88.62	74.80' LT	728.28	140897.75	614137.67
55	434+87.17	79.91' LT	728.28	140897.46	614132.36
56	434+84.96	74.08' LT	728.31	140894.02	614137.56
57	434+85.05	80.05' LT	728.30	140895.42	614131.76
58	434+79.89	72.28' LT	728.25	140888.68	614138.20
59	434+84.83	70.90' LT	728.23	140893.20	614140.64

CTHS-CR-SW

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
20	434+58.39	93.85' LT	727.86	140872.43	614112.44
21	434+55.60	89.70' LT	727.84	140868.79	614115.88
22	434+57.11	98.42' LT	728.27	140872.18	614107.71
23	434+55.39	95.42' LT	727.74	140869.85	614110.27
24	434+52.57	91.28' LT	727.72	140866.18	614113.68
25	434+50.67	88.92' LT	728.21	140863.82	614115.57
26	434+55.13	95.57' LT	727.74	140869.63	614110.05
27	434+50.84	98.14' LT	727.89	140866.00	614106.61
28	434+48.27	93.84' LT	727.87	140862.56	614110.24
29	434+46.55	100.70' LT	727.91	140862.37	614103.17
30	434+43.98	96.41' LT	727.90	140858.93	614106.80

STH 31 SB

NOTES:
1. CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION
3. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS
4. ALL STATION AND OFFSET INFORMATION REFERENCE STH 31 R/L
5. CURB AND GUTTER RADII CALLOUTS ARE TO THE FACE OF CURB

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	CURB RAMP DETAILS - CTH S SW	SHEET 8	E

2

LEGEND

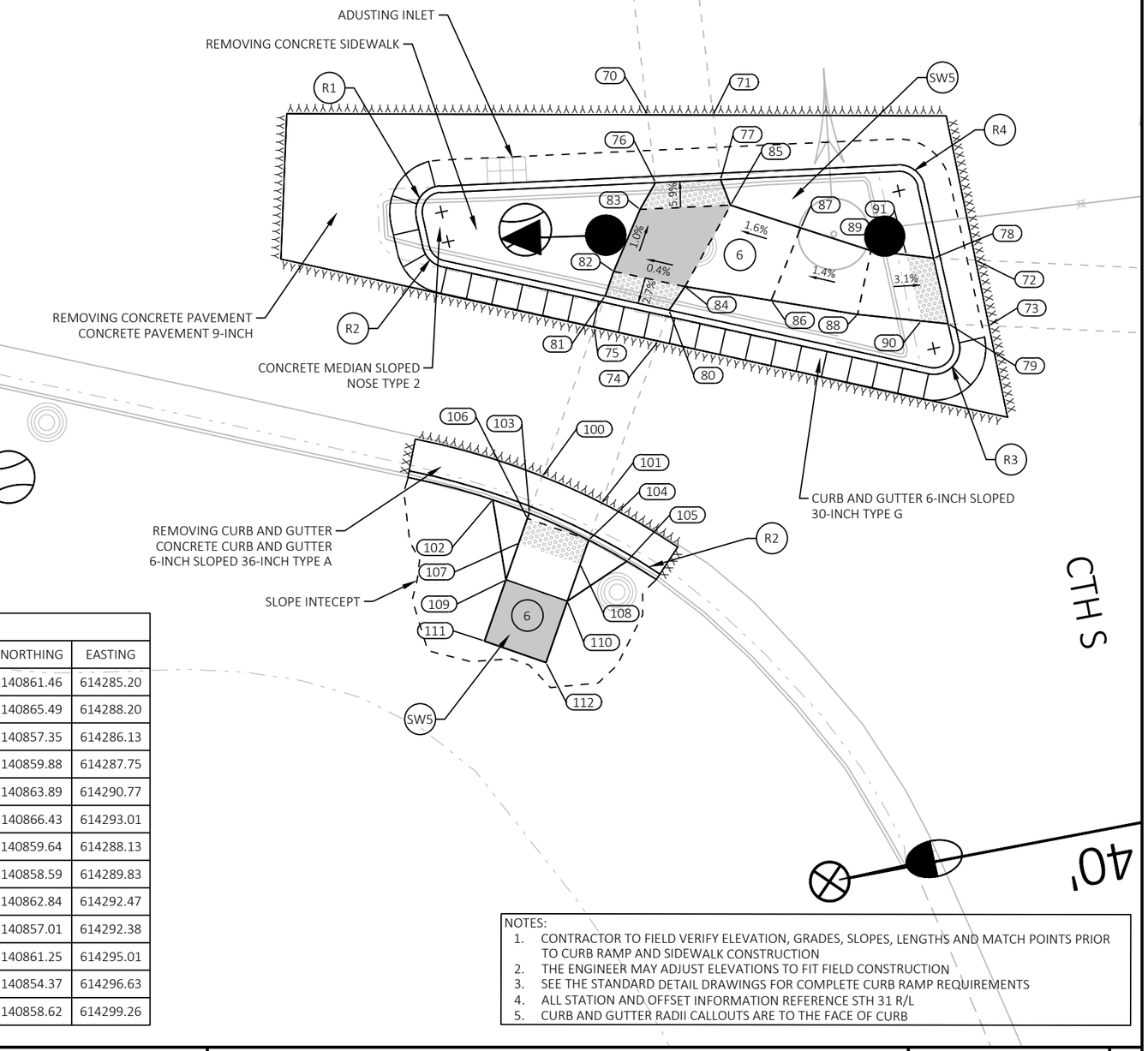
- X — CURB RAMP TYPE
- XXX — POINT NUMBER
- SW5 — CONCRETE SIDEWALK 5-INCH
- XXXXXX — SAWCUT
- REVERSE SLOPE GUTTER
- LEVEL LANDING

STH 31 SB

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
R1	434+77.77	56.76 RT	2.0'
R2	434+78.28	59.04' RT	2.0'
R3	435+15.70	67.22' RT	2.0'
R4	435+12.98	55.09' RT	2.0'
R5	434+65.01	129.42' RT	53.7'

CTHS-ISNLD-SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
70	434+93.62	49.26' RT	728.06	140875.44	614259.81
71	434+98.66	49.27' RT	728.14	140880.35	614260.92
72	435+18.90	60.40' RT	728.19	140897.66	614276.21
73	435+19.93	65.45' RT	728.19	140897.56	614281.37
74	434+94.46	66.69' RT	728.01	140872.44	614276.99
75	434+89.54	65.63' RT	728.01	140867.87	614274.88
76	434+94.25	54.48' RT	727.93	140874.90	614265.03
77	434+99.25	54.24' RT	728.00	140879.84	614265.89
78	435+15.68	60.26' RT	728.10	140894.55	614275.37
79	435+16.81	65.31' RT	728.10	140894.55	614280.55
80	434+95.30	64.29' RT	728.06	140873.78	614274.84
81	434+90.38	63.22' RT	728.05	140869.22	614272.71
82	434+91.04	61.32' RT	728.10	140870.28	614271.00
83	434+93.06	56.53' RT	728.05	140873.30	614266.78
84	434+96.53	62.48' RT	728.11	140875.38	614273.34
85	435+00.03	56.20' RT	728.10	140880.17	614267.98
86	435+03.18	63.54' RT	728.20	140881.63	614275.83
87	435+05.44	57.94' RT	728.20	140885.07	614270.86
88	435+09.82	64.60' RT	728.30	140887.89	614278.32
89	435+10.85	59.68' RT	728.26	140889.97	614273.75
90	435+14.71	65.10' RT	728.16	140892.55	614279.88
91	435+13.57	60.01' RT	728.17	140892.55	614274.66

CTHS-CR-SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
100	434+85.55	77.10' RT	727.79	140861.46	614285.20
101	434+90.14	79.14' RT	727.83	140865.49	614288.20
102	434+81.74	78.92' RT	728.22	140857.35	614286.13
103	434+84.56	79.94' RT	727.74	140859.88	614287.75
104	434+89.14	82.00' RT	727.78	140863.89	614290.77
105	434+92.11	83.63' RT	728.31	140866.43	614293.01
106	434+84.42	80.36' RT	727.74	140859.64	614288.13
107	434+83.76	82.25' RT	727.84	140858.59	614289.83
108	434+88.48	83.89' RT	727.87	140862.84	614292.47
109	434+82.78	85.08' RT	727.99	140857.01	614292.38
110	434+87.50	86.73' RT	728.00	140861.25	614295.01
111	434+81.13	89.81' RT	728.07	140854.37	614296.63
112	434+85.86	91.45' RT	728.07	140858.62	614299.26



NOTES:
1. CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION
3. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS
4. ALL STATION AND OFFSET INFORMATION REFERENCE STH 31 R/L
5. CURB AND GUTTER RADII CALLOUTS ARE TO THE FACE OF CURB

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	CURB RAMP DETAILS - CTH S SE	SHEET 9	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 04-CTH S-SE
PLOT DATE : 7/19/2022 3:01 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

LEGEND

- X — CURB RAMP TYPE
- XXX — POINT NUMBER
- SW5 — CONCRETE SIDEWALK 5-INCH
- xxxxxx — SAWCUT
- REVERSE SLOPE GUTTER
- LEVEL LANDING

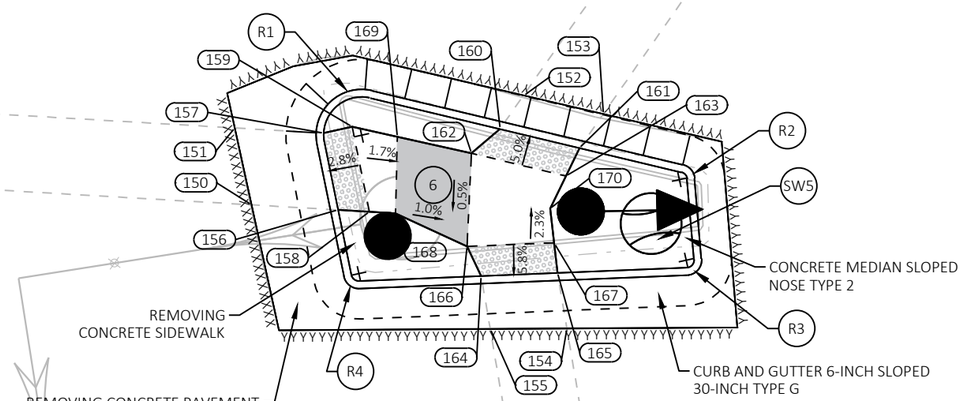
CTH S

45'

N

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
R1	435+99.98	73.38' LT	3.0'
R2	436+20.96	70.42' LT	1.0'
R3	436+21.41	65.11' LT	1.0'
R4	435.99.80	64.23' LT	1.0'

CTHS-ISLND-NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
150	435+92.73	68.76' LT	728.26	140998.00	614166.37
151	435+91.62	73.83' LT	728.26	140998.03	614161.18
152	436+10.69	75.98' LT	727.98	141017.11	614163.27
153	436+15.93	74.75' LT	727.90	141021.96	614165.61
154	436+13.53	60.60' LT	728.11	141016.51	614178.90
155	436+08.47	60.57' LT	728.13	141011.57	614177.82
156	435+98.44	68.42' LT	728.24	141003.50	614167.95
157	435+97.49	73.49' LT	728.25	141003.68	614162.80
158	436+00.50	68.30' LT	728.30	141005.49	614168.52
159	435+99.36	73.91' LT	728.31	141005.60	614162.80
160	436+09.12	73.76' LT	728.05	141015.09	614165.08
161	436+14.36	72.50' LT	727.97	141019.93	614167.46
162	436+07.23	72.16' LT	728.23	141012.90	614166.23
163	436+13.47	70.66' LT	728.01	141018.65	614169.06
164	436+07.87	64.05' LT	728.08	141011.75	614174.28
165	436+12.91	64.26' LT	728.06	141016.71	614175.19
166	436+06.94	66.02' LT	728.20	141011.27	614172.16
167	436+12.69	66.25' LT	728.17	141016.92	614173.19
168	436+02.22	68.20' LT	728.26	141007.14	614169.00
169	436+02.34	73.25' LT	728.27	141008.37	614164.10
170	436+12.43	68.52' LT	728.10	141017.17	614170.92



STH 31 SB

NOTES:
1. CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION
3. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS
4. ALL STATION AND OFFSET INFORMATION REFERENCE STH 31 R/L
5. CURB AND GUTTER RADII CALLOUTS ARE TO THE FACE OF CURB

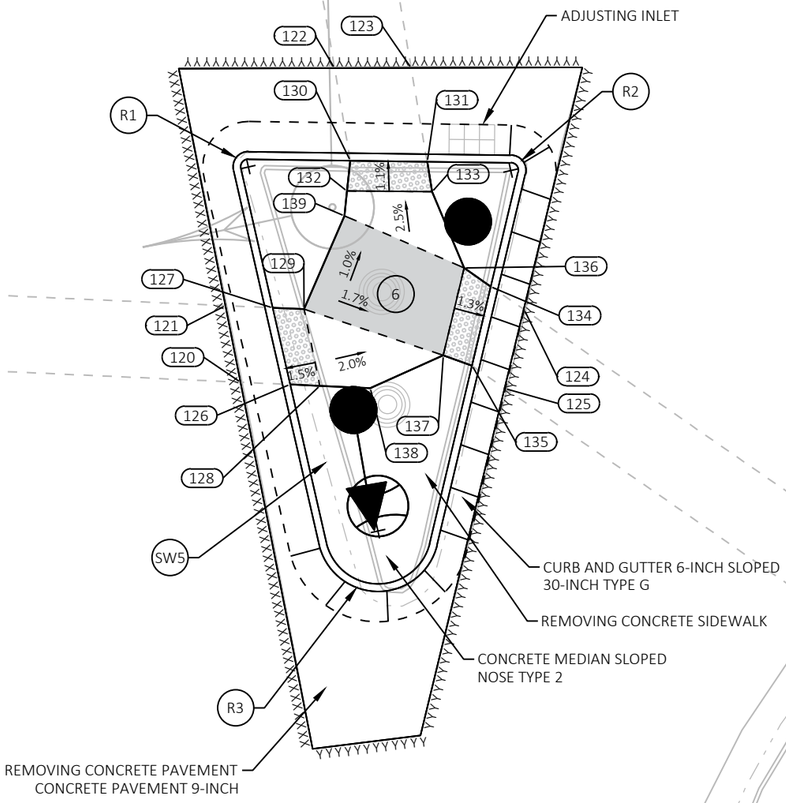
2

LEGEND

- X — CURB RAMP TYPE
- XXX — POINT NUMBER
- SW5 — CONCRETE SIDEWALK 5-INCH
- XXXXXX — SAWCUT
- REVERSE SLOPE GUTTER
- LEVEL LANDING

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
R1	436+21.44	55.83' RT	2.0'
R2	436+38.76	56.07 RT	2.0'
R3	436+30.01	79.85' RT	8.0'

CTHS-ISLND-NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
120	436+20.93	70.04' RT	728.20	140995.10	614307.97
121	436+19.93	64.99' RT	728.16	140995.23	614302.83
122	436+27.14	49.32' RT	728.05	141005.70	614289.13
123	436+32.20	49.31' RT	727.97	141010.64	614290.22
124	436+39.65	65.25' RT	727.92	141014.42	614307.41
125	436+38.41	70.47' RT	727.95	141012.06	614312.23
126	436+24.21	70.19' RT	728.15	140998.27	614308.84
127	436+23.06	65.13' RT	728.12	140998.25	614303.65
128	436+26.17	70.27' RT	728.17	141000.16	614309.35
129	436+25.13	65.21' RT	728.17	141000.25	614304.19
130	436+28.18	55.42' RT	727.96	141005.37	614295.31
131	436+33.25	55.49' RT	727.88	141010.31	614296.49
132	436+27.97	57.42' RT	727.98	141004.73	614297.21
133	436+33.57	57.47' RT	727.90	141010.18	614298.48
134	436+37.45	63.72' RT	727.95	141012.60	614305.44
135	436+36.20	68.94' RT	727.99	141010.24	614310.25
136	436+35.68	62.50' RT	727.98	141011.15	614303.85
137	436+34.31	68.26' RT	728.01	141008.54	614309.18
138	436+29.50	70.42' RT	728.12	141003.37	614310.23
139	436+27.79	59.06' RT	728.10	141004.20	614298.77



STH 31 SB

55'

CTH S

NOTES:
1. CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONSTRUCTION
3. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS
4. ALL STATION AND OFFSET INFORMATION REFERENCE STH 31 R/L
5. CURB AND GUTTER RADII CALLOUTS ARE TO THE FACE OF CURB

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	CURB RAMP DETAILS - CTH S NE	SHEET 11	E

2

N

DIAMOND GRINDING MATCH POINT

BEGIN PROJECT
STA 312+88

STH 31

311+00 312+00 313+00 314+00 315+00 316+00

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 12	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (100)
PLOT DATE : 7/19/2022 3:02 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

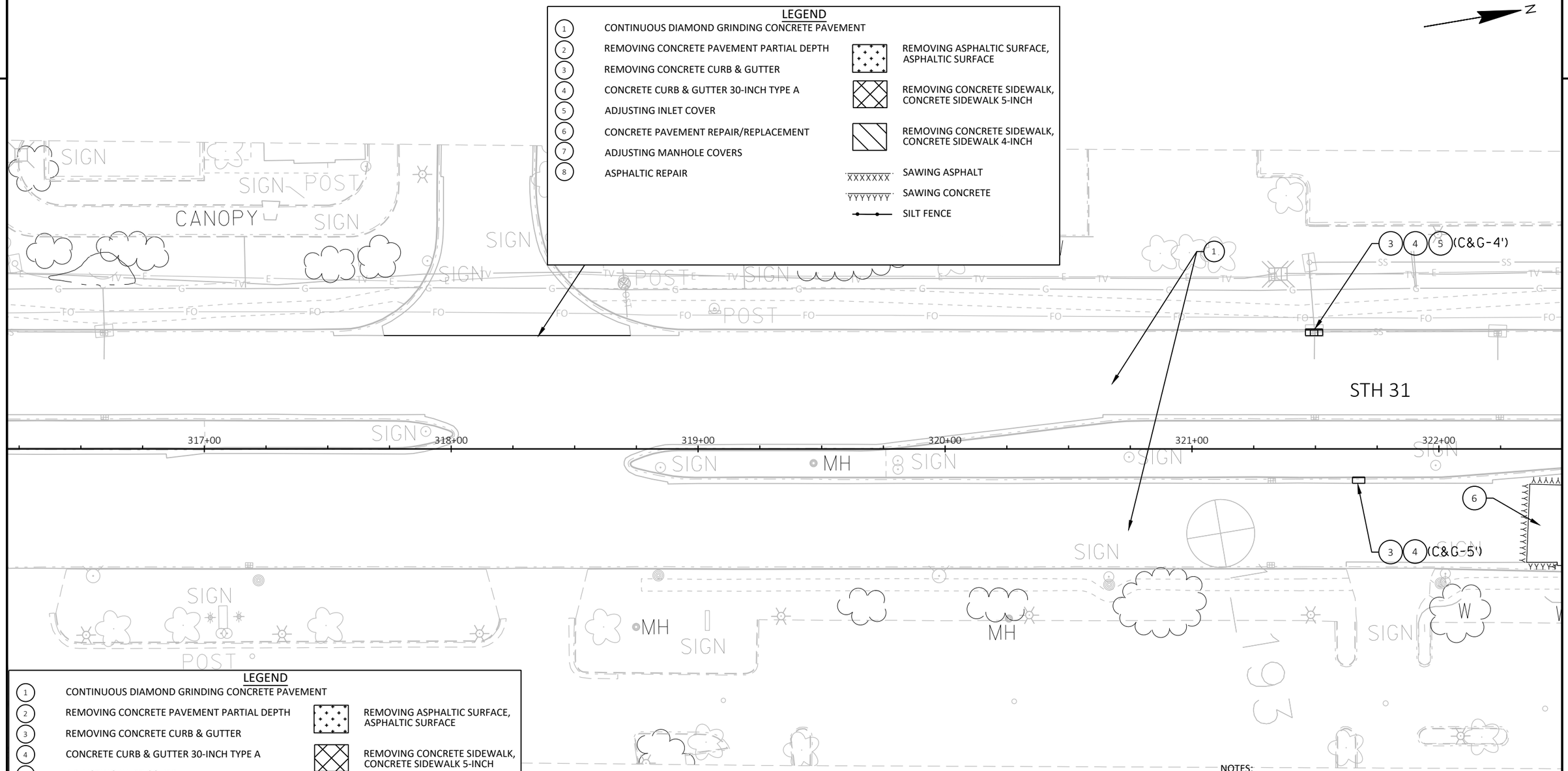
REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE


N
SIGN
POST
CANOPY
SIGN
SIGN
SIGN
POST
SIGN
POST
FO
FO
FO

2

2

MATCHLINE STA 18+00(CTHK)

67TH STREET

STH 31

DIAMOND GRINDING MATCH POINT

PI: 326+62.62

DIAMOND GRINDING MATCH POINT

CURB RAMP TYPE 2 SEE CONSTRUCTION DETAILS

DIAMOND GRINDING MATCH POINT STA 21+13

REMOVE AND REPLACE TRAFFIC SIGNALS SEE TRAFFIC SIGNAL PLAN

MATCHLINE STA 18+00(CTHK)

323+00 324+00 325+00 326+00 327+00 328+00

(C&G-3') (C&G-4') (C&G-5') (C&G-6') (C&G-7') (C&G-8') (C&G-10')

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 14	E

2

N

65TH STREET

SEPC

SEPC

DIAMOND GRINDING MATCH POINT

STH 31

3 4 (C&G-3')

3 4 (C&G-3')

3 4 (C&G-6')

3 4 (C&G-4')

329+00

330+00

331+00

332+00

333+00

334+00

DIAMOND GRINDING MATCH POINT

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 15	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (103)
PLOT DATE : 7/19/2022 3:03 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

335+00 336+00 337+00 338+00 339+00 340+00

(1)

(3) (4) (5) (C&G-4')

(3) (4) (C&G-3')

(3) (4) (5) (C&G-6')

64TH STREET

DIAMOND GRINDING MATCH POINT

SIGN POST

MH

SIGN

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 16	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (104)
PLOT DATE : 7/19/2022 3:03 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

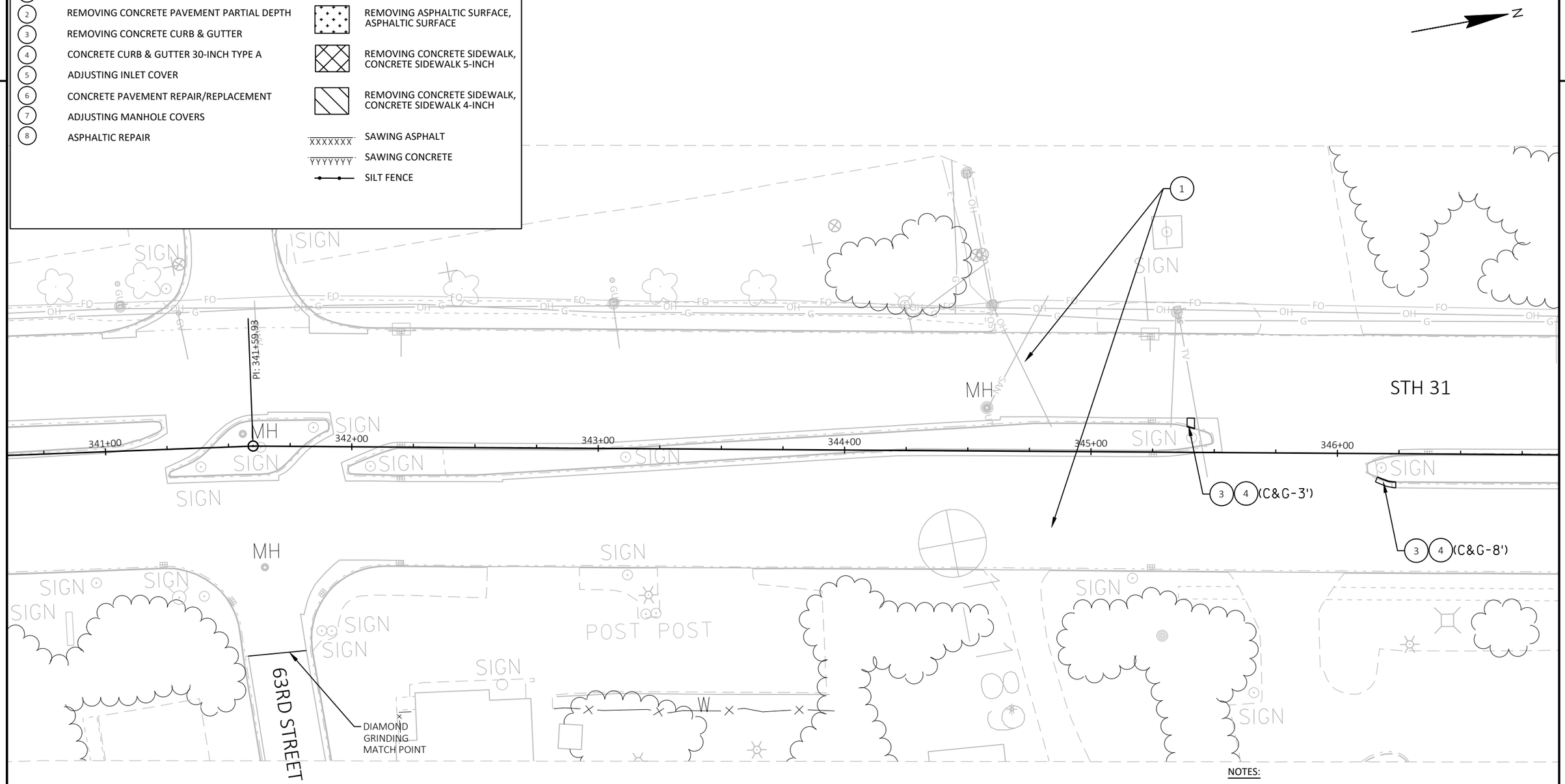
REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE



NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 17	E

2

STH 31

PI: 347+21.01

347+00 348+00 349+00 350+00 351+00 352+00

SIGN POST POSTS MH W E X

1 2 3 4 (C&G-3') 6

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 18	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (106)
PLOT DATE : 7/19/2022 3:04 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

DIAMOND GRINDING MATCH POINT STA 17+48

CTH K

18+00(CTH K)

MATCHLINE STA 18+00(CTHK)

HAZMAT AREA 1
APPROXIMATE LIMITS OF MANAGEMENT OF SOLID WASTE
1 TO 18 FEET BELOW GRADE

HAZMAT AREA 2
APPROXIMATE LIMITS OF MANAGEMENT OF SOLID WASTE
1 TO 10 FEET BELOW GRADE

CANOPY

19+00(CTH K)

PI: 354+45.56

20+00(CTH K)

PI: 358+00.01

STH 31

353+00 354+00 355+00 356+00 357+00 358+00 359+

(C&G-6')
(C&G-5')
(C&G-9')
(C&G-4')
(C&G-3')

REMOVE AND REPLACE TRAFFIC SIGNALS
SEE TRAFFIC SIGNAL PLAN

MATCHLINE STA 21+10(CTHK)

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 19	E

2

N

POST POST POST POST POST POST POST SIGN SIGN SIGN

2

N

55TH STREET

STH 31

56TH STREET

DIAMOND GRINDING MATCH POINT

DIAMOND GRINDING MATCH POINT

366+00 367+00 368+00 369+00 370+00 371+00

(C&G-4')

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 21	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (109)
PLOT DATE : 7/19/2022 3:04 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

55TH STREET

DIAMOND GRINDING MATCH POINT

PI: 372+54.96

372+00 373+00 374+00 375+00 376+00 377+00

(C&G-8')

(C&G-5')

(C&G-3')

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

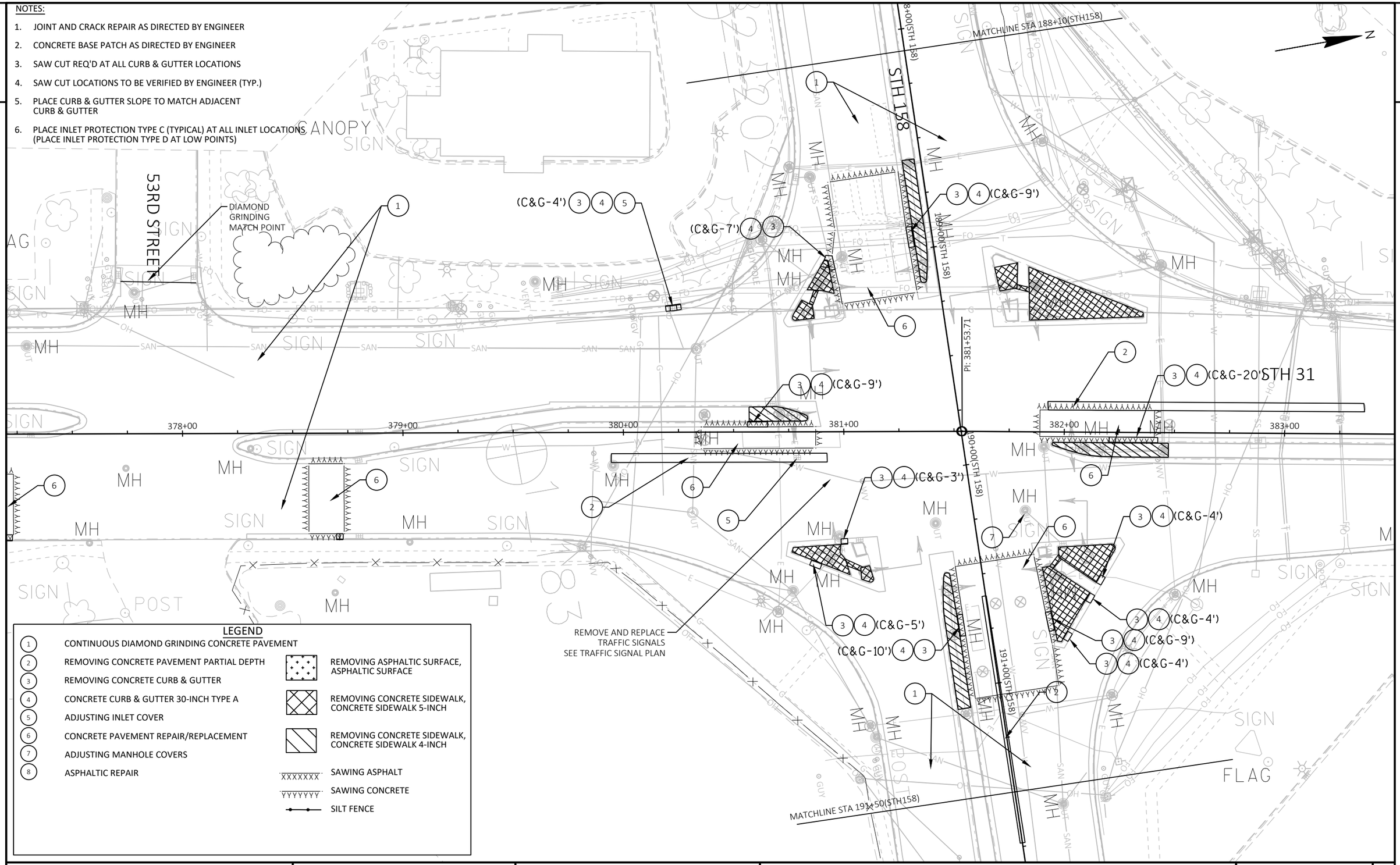
1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 22	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (110)
PLOT DATE : 7/19/2022 3:05 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)



LEGEND

1	CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2	REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3	REMOVING CONCRETE CURB & GUTTER
4	CONCRETE CURB & GUTTER 30-INCH TYPE A
5	ADJUSTING INLET COVER
6	CONCRETE PAVEMENT REPAIR/REPLACEMENT
7	ADJUSTING MANHOLE COVERS
8	ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 23	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\0212O1-PD.DWG
LAYOUT NAME - STH 31 - (111)sth158

PLOT DATE : 7/19/2022 3:05 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

W

STH 31

384+00 385+00 386+00 387+00 388+00 389+00

3 4 (C&G-3')

6

1

(C&G-3') 3 4

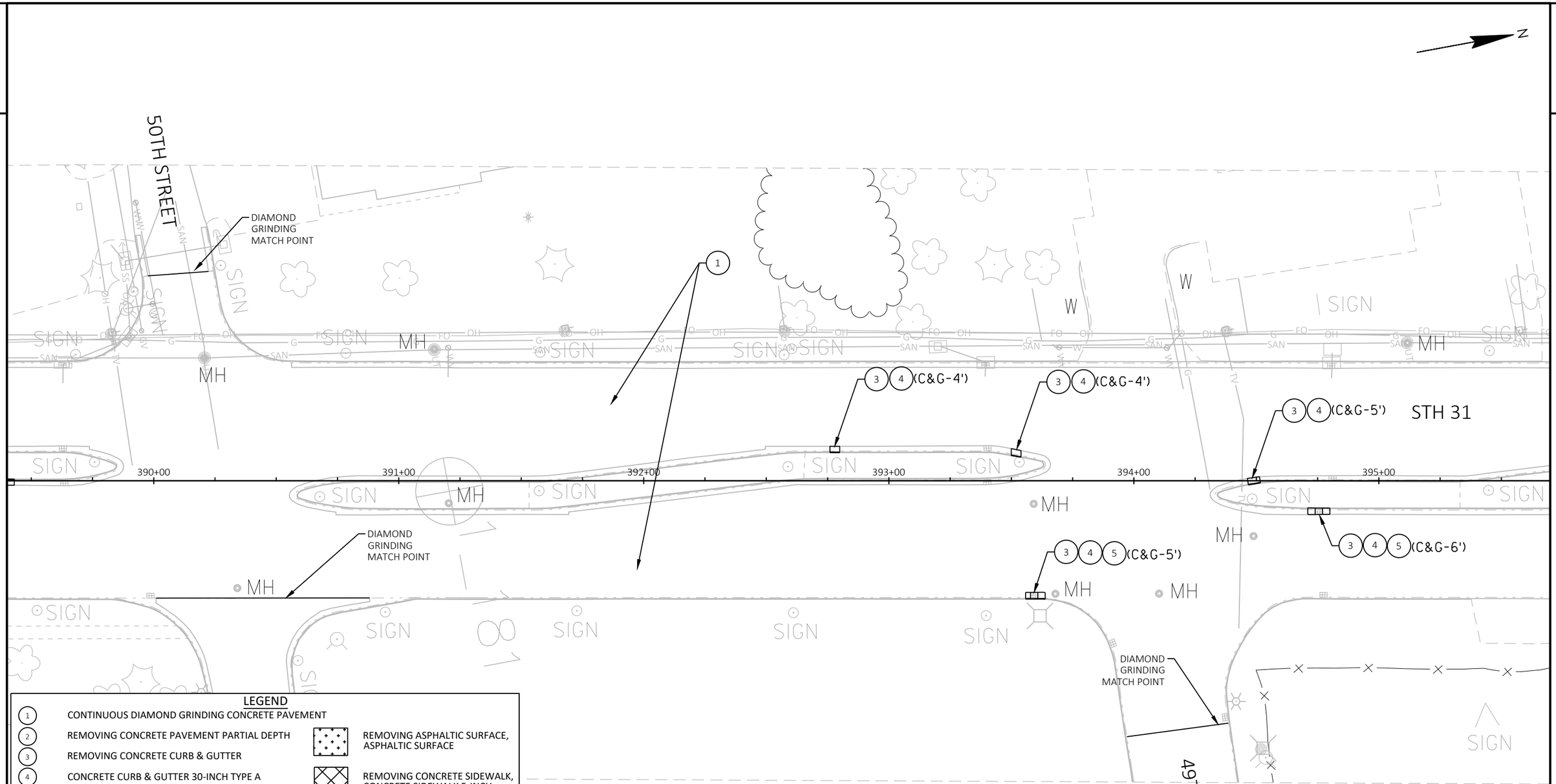
LEGEND

1	CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT		
2	REMOVING CONCRETE PAVEMENT PARTIAL DEPTH		REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE
3	REMOVING CONCRETE CURB & GUTTER		REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH
4	CONCRETE CURB & GUTTER 30-INCH TYPE A		REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH
5	ADJUSTING INLET COVER	XXXXXXX	SAWING ASPHALT
6	CONCRETE PAVEMENT REPAIR/REPLACEMENT	YYYYYYY	SAWING CONCRETE
7	ADJUSTING MANHOLE COVERS		SILT FENCE
8	ASPHALTIC REPAIR		

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

2



LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

XXXXXXX SAWING ASPHALT

YYYYYYY SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 25	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (113)
PLOT DATE : 7/19/2022 3:05 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

396+00 397+00 398+00 399+00 400+00 401+00

1

3 4 5 (C&G-6')

3 4 (C&G-8')

MH MH MH

SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN

POST

W W

SAN FO OH G GTST

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

XXXXXXX SAWING ASPHALT

YYYYYYY SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 26	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (114)
PLOT DATE : 7/19/2022 3:06 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

STH 31

402+00 403+00 404+00 405+00 406+00 407+00

3 4 (C&G-5')

3 4 (C&G-6')

1

DIAMOND GRINDING MATCH POINT

46TH STREET

SIGN MH FO G OH SAN W POST

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

XXXXXXX SAWING ASPHALT

YYYYYYY SAWING CONCRETE

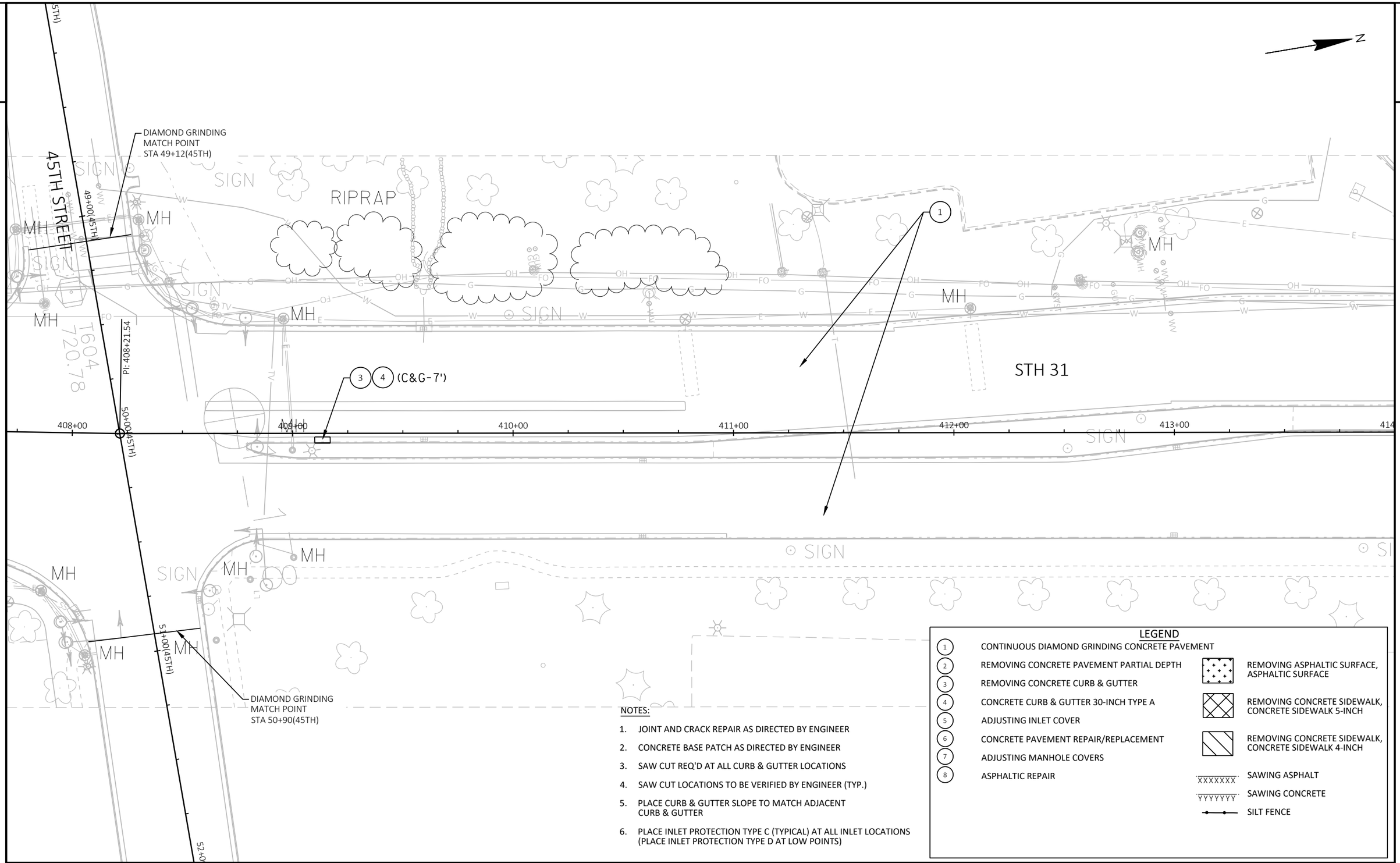
SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 27	E

2



NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

XXXXXXX SAWING ASPHALT

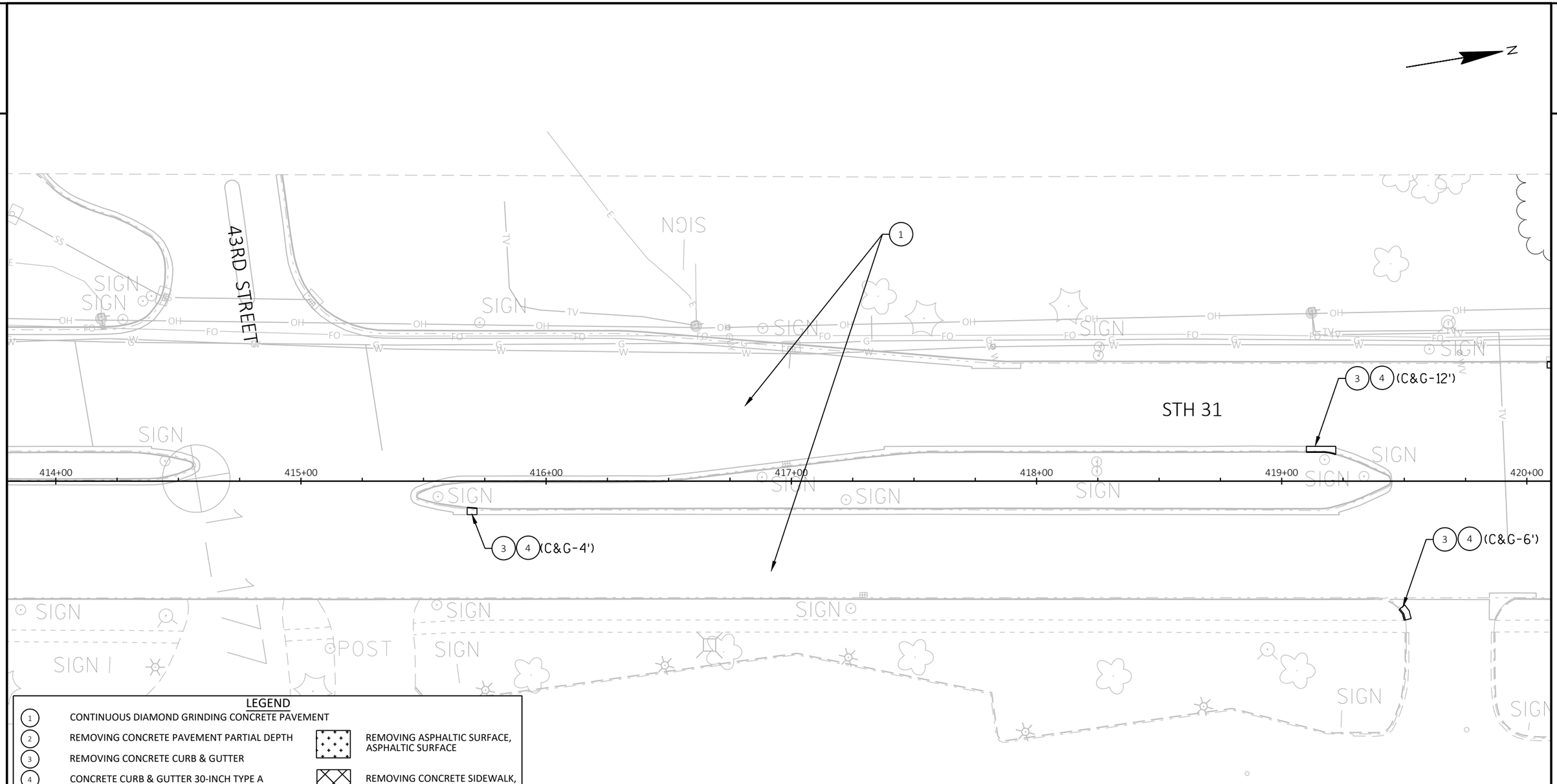
YYYYYYY SAWING CONCRETE

SILT FENCE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 28	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (116)
PLOT DATE : 7/19/2022 3:06 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

- REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH
- REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH
- XXXXXXX SAWING ASPHALT
- YYYYYYY SAWING CONCRETE
- SILT FENCE

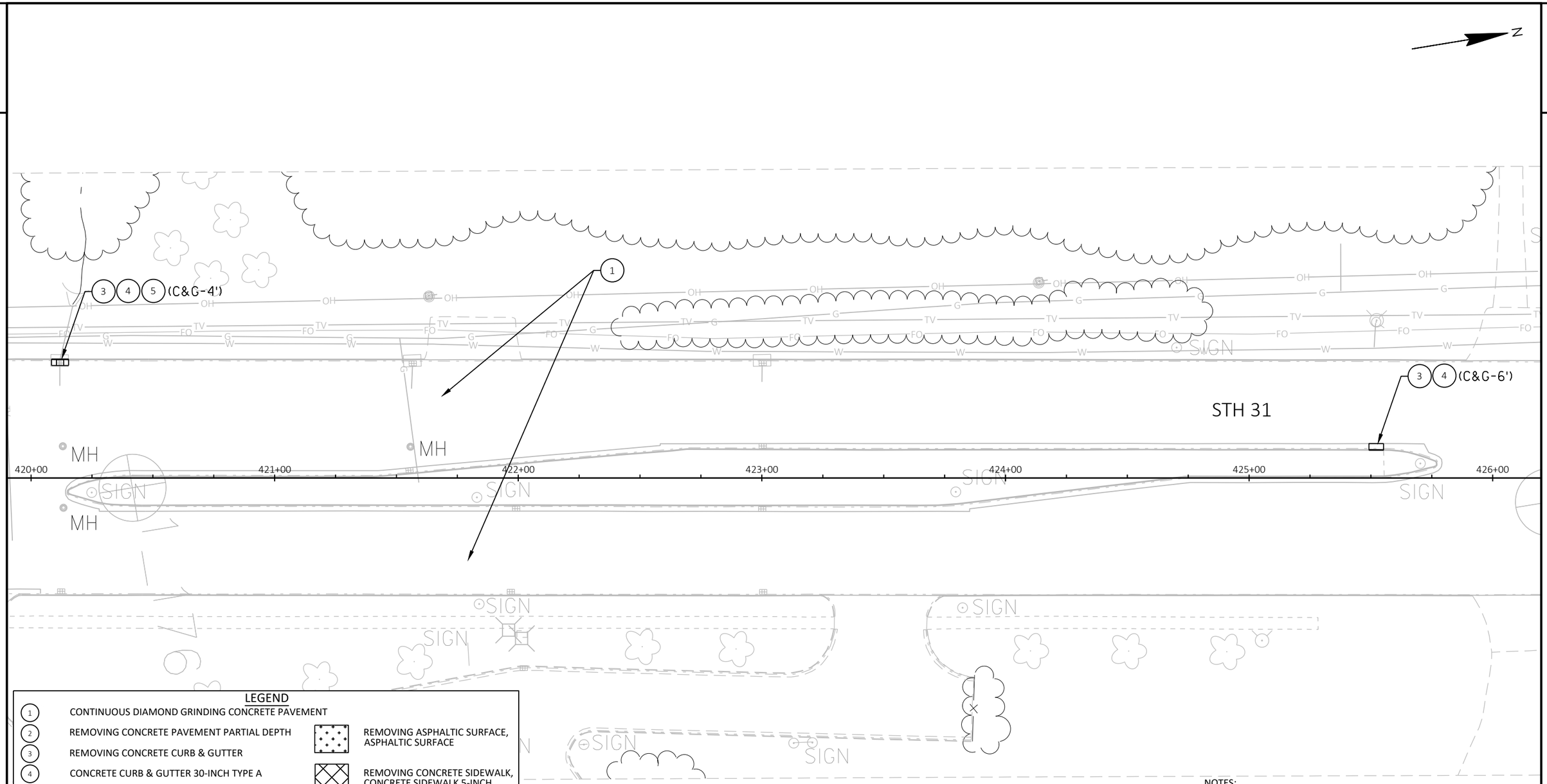
NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 29	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (117)
PLOT DATE : 7/19/2022 3:06 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

2

N

STH 31

PI: 427+00.92

DIAMOND GRINDING
MATCH POINT
STA 427+42

PC: 427+88.37

DIAMOND GRINDING
MATCH POINT
STA +426+60

+00 427+00 428+00 429+00 430+00 431+00 432+00

1

3 4 5 (C&G-4')

6

3 4 (C&G-3')

SIGN MH

LEGEND

1	CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2	REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3	REMOVING CONCRETE CURB & GUTTER
4	CONCRETE CURB & GUTTER 30-INCH TYPE A
5	ADJUSTING INLET COVER
6	CONCRETE PAVEMENT REPAIR/REPLACEMENT
7	ADJUSTING MANHOLE COVERS
8	ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 31	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (119)
PLOT DATE : 7/19/2022 3:07 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

STH 31

CTH S

CURB RAMP TYPE 6
SEE CONSTRUCTION DETAILS

(C&G-13') 4 3

(C&G-9') 3 4

(C&G-6') 3 4

(C&G-3') 3 4

REMOVE AND REPLACE
TRAFFIC SIGNALS
SEE TRAFFIC SIGNAL PLAN

END PROJECT
STA 437+00

RIPRAP

PT: 434+41.75

59+00 (CTH S)

60+00 (STH S)

61+19 (CTH S)

62+00

433+00 434+00 435+00 436+00 437+00 438+00

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

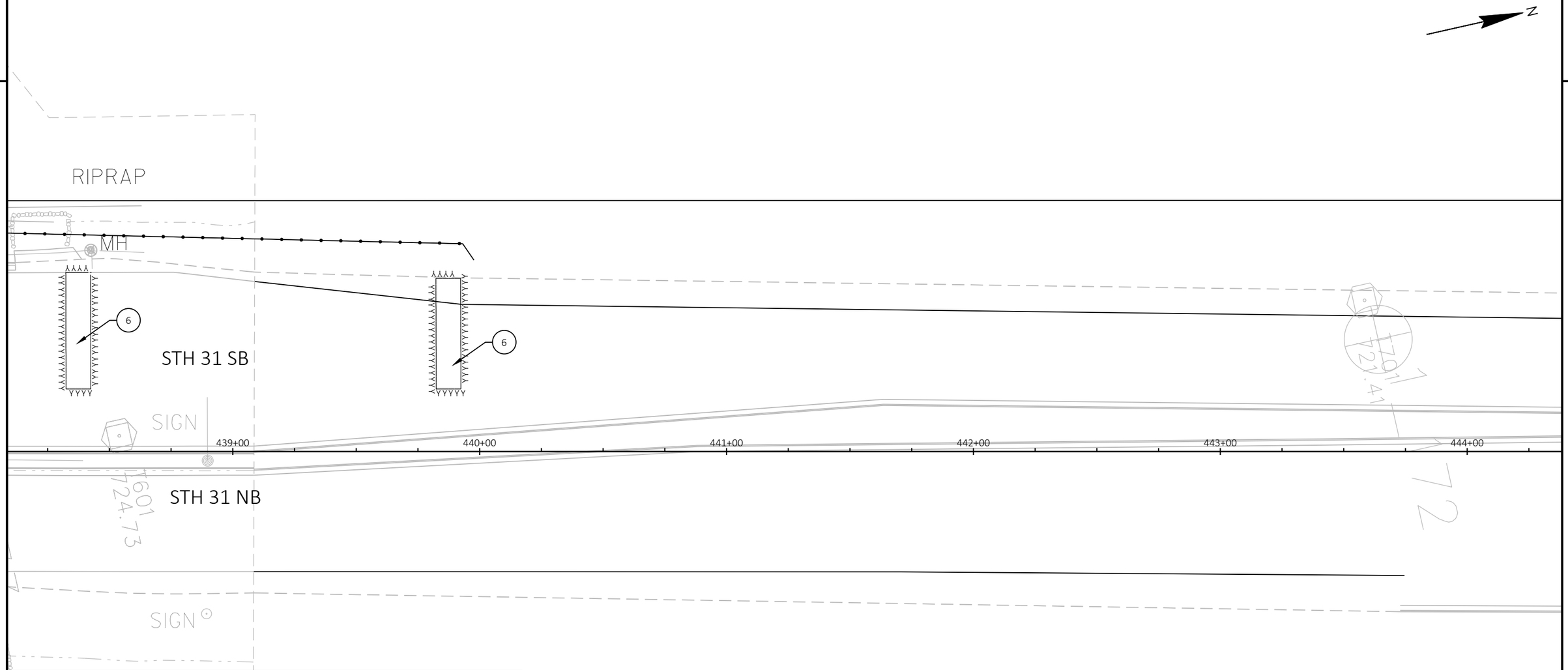
SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 32	E

2



LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

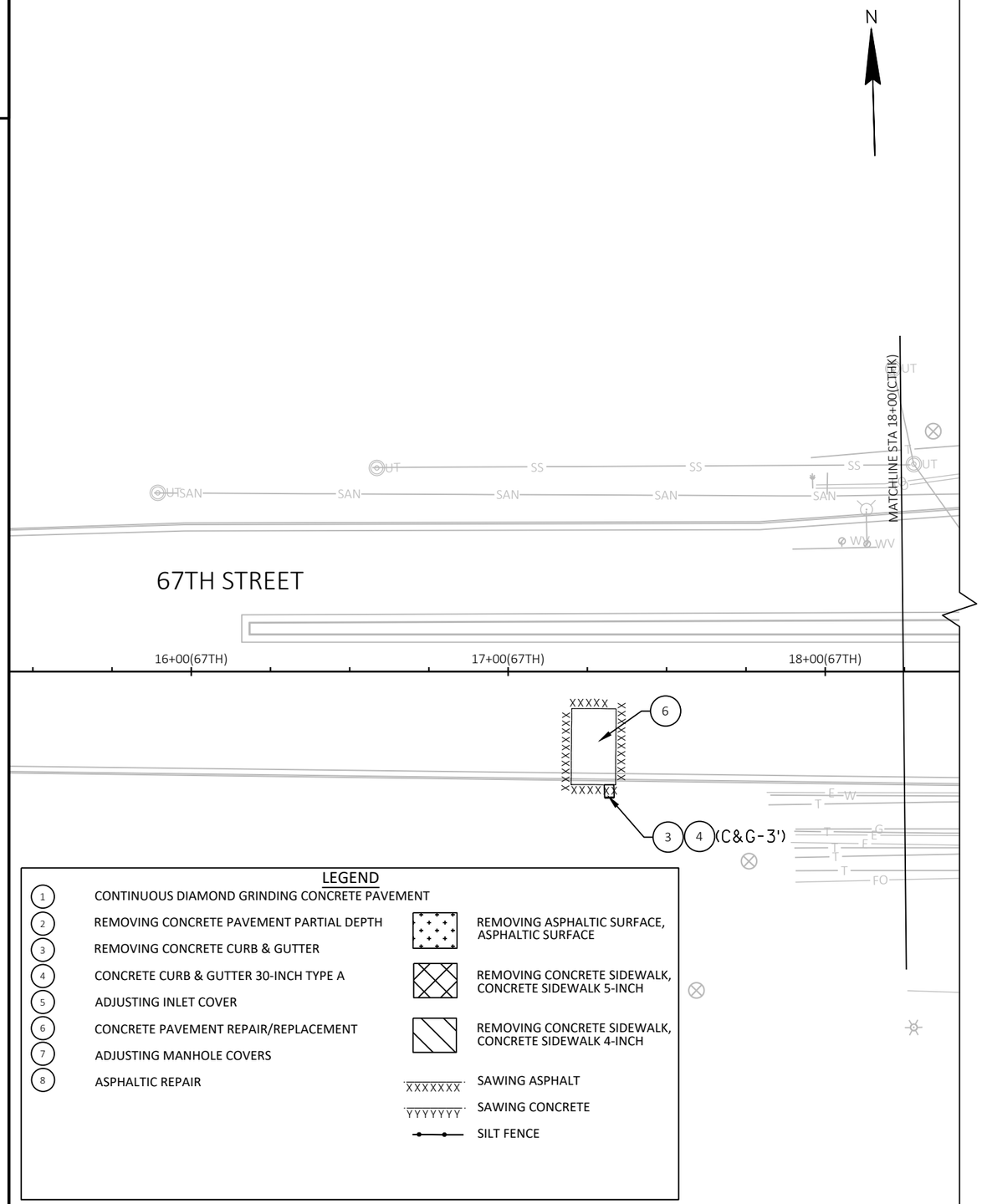
SILT FENCE

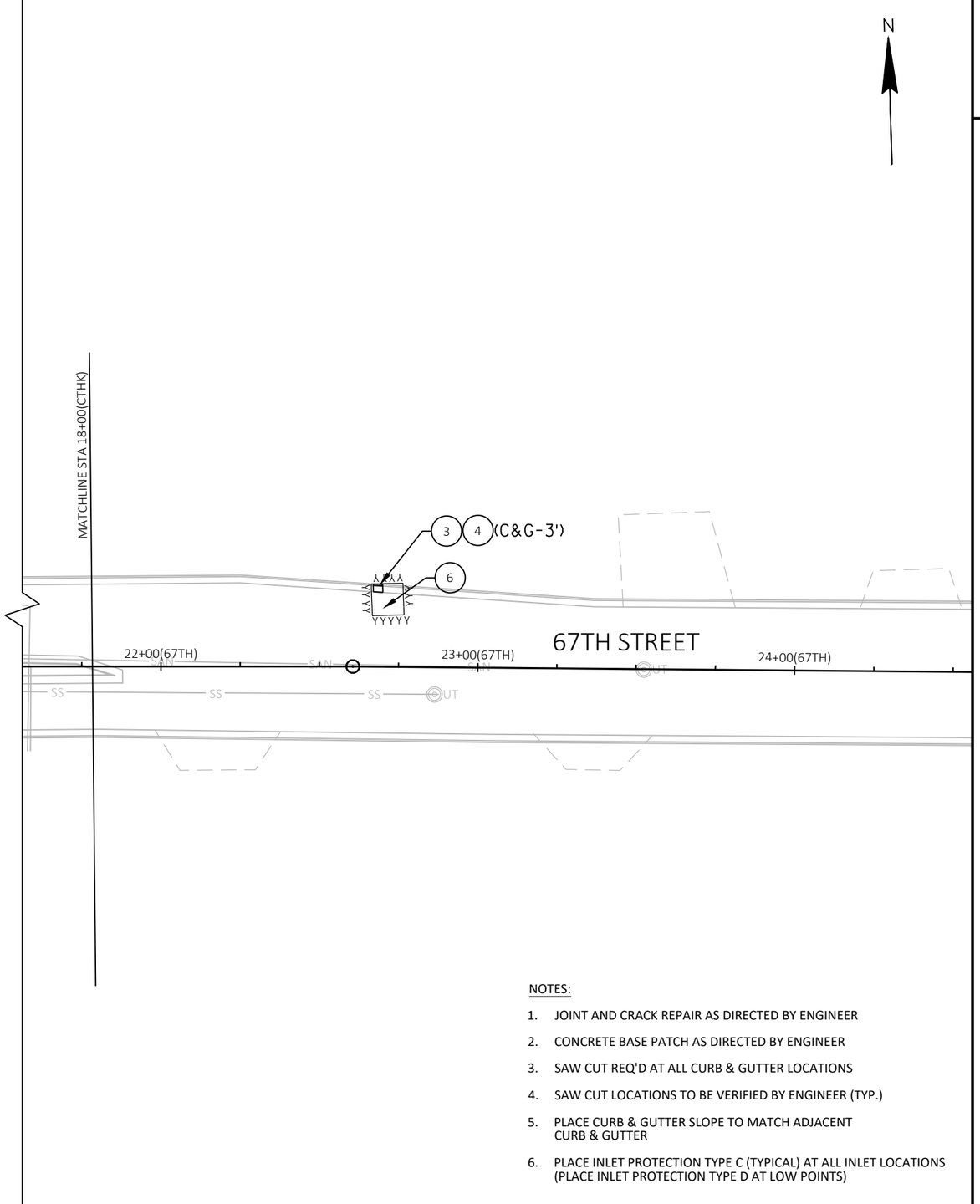
NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 33	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (121)
PLOT DATE : 7/19/2022 3:07 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

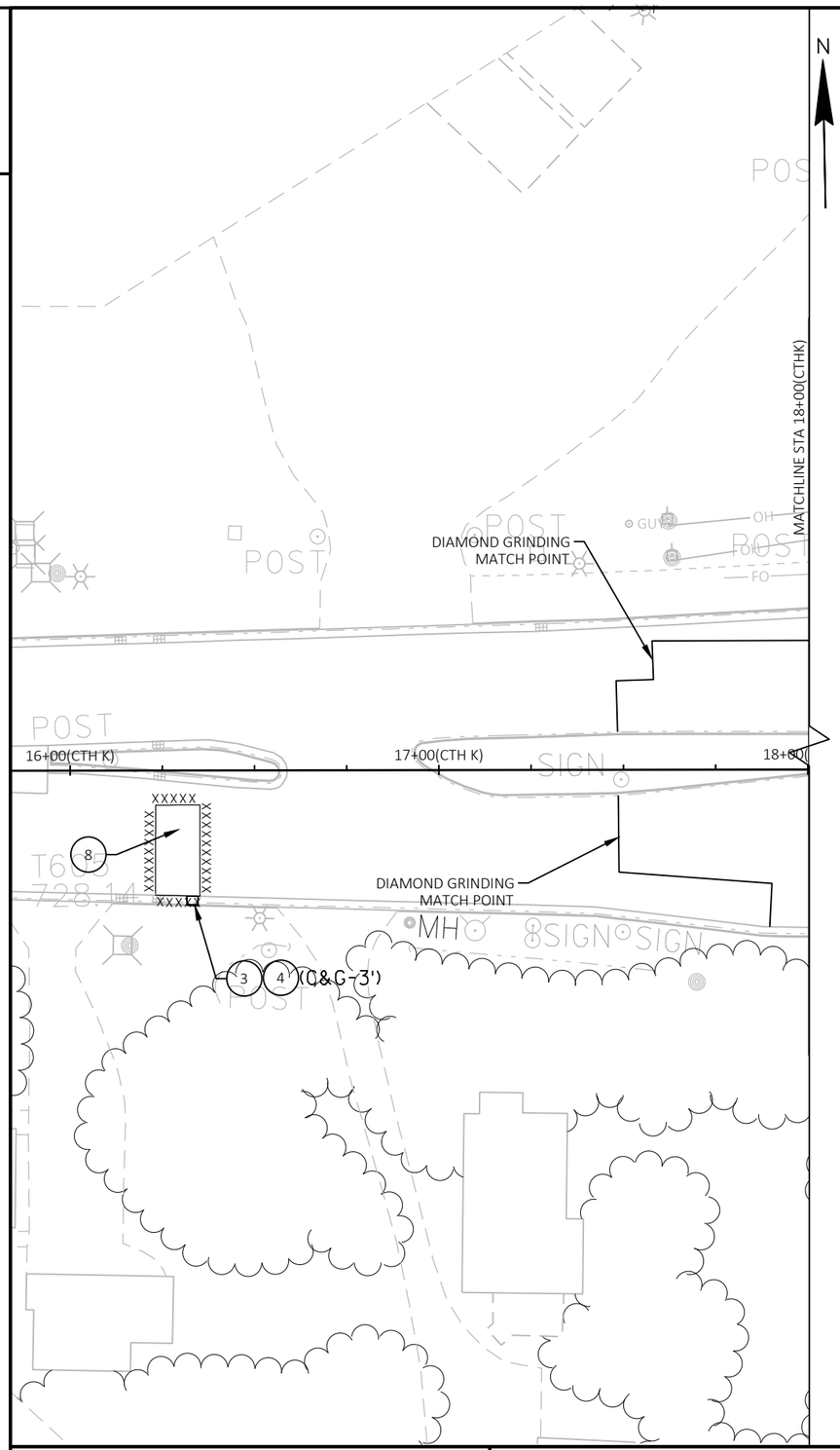
- REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE
- REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH
- REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH
- SAWING ASPHALT
- SAWING CONCRETE
- SILT FENCE

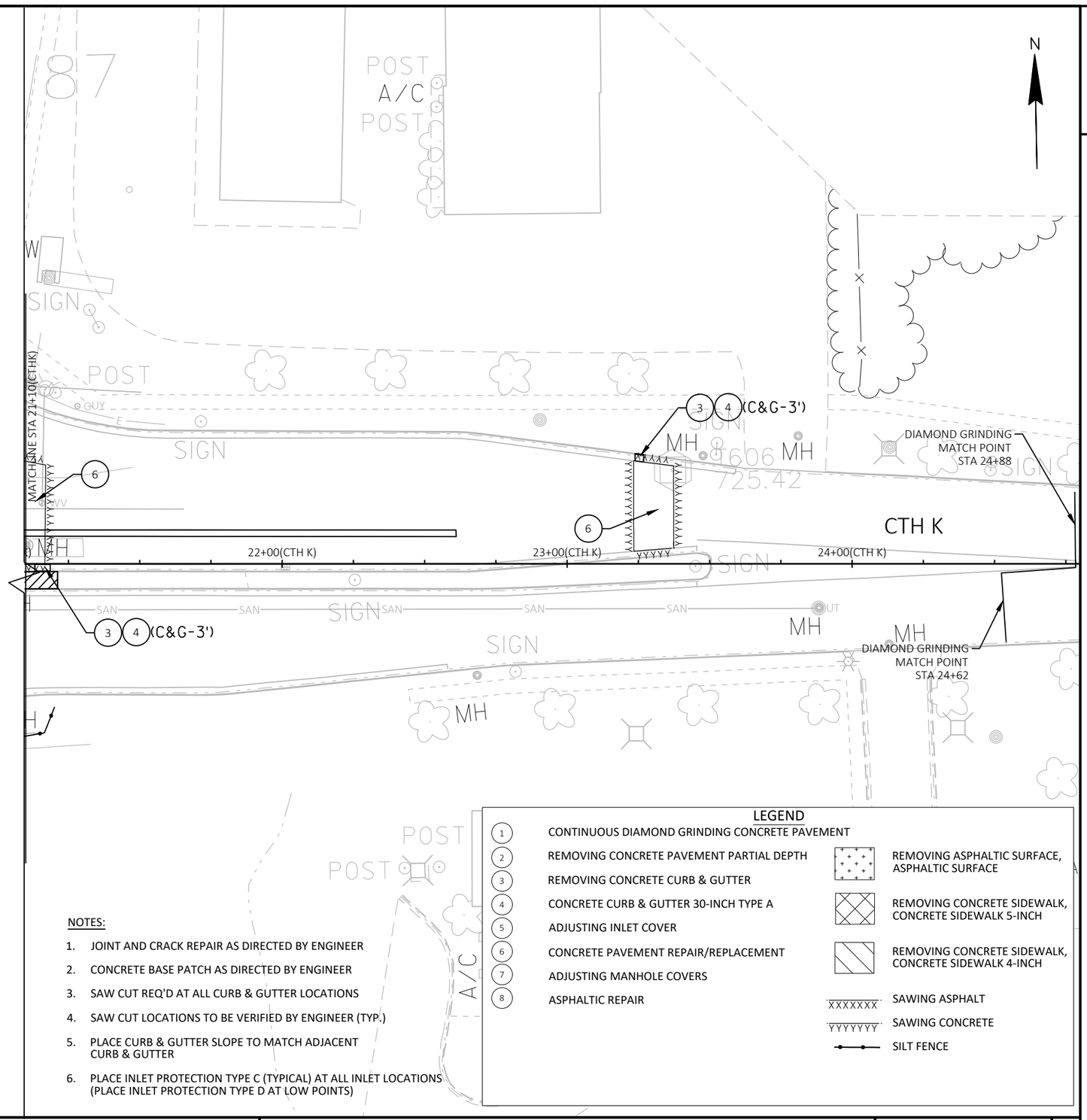
NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS - 67TH STREET	SHEET 34	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (125)67THeastwest
PLOT DATE : 7/19/2022 3:08 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42





NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

LEGEND

1	CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2	REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3	REMOVING CONCRETE CURB & GUTTER
4	CONCRETE CURB & GUTTER 30-INCH TYPE A
5	ADJUSTING INLET COVER
6	CONCRETE PAVEMENT REPAIR/REPLACEMENT
7	ADJUSTING MANHOLE COVERS
8	ASPHALTIC REPAIR

	REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE
	REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH
	REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH
XXXXXXX	SAWING ASPHALT
YYYYYYY	SAWING CONCRETE
	SILT FENCE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS -CTH K	SHEET 35	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (122)KeastWEST
PLOT DATE : 7/19/2022 3:08 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

SIGN
FLAG
SIGN
SIGN
W
MH
SIGN
MH
SIGN
POST
SIGN
MH
MH
SAN
UT
SAN
W
3 4 (C&G-3')
6
3 4 (C&G-3')
6
2
192+00(STH 158)
193+00(STH 158)
194+00(STH 158)
195+00(STH 158)
196+00(STH 158)
197+00(STH 158)
STH 158
SIGN
MH
MH
MH
DIAMOND GRINDING
MATCH POINT
STA 195+80(STH158)
GV
SAN
POST
GUY
GUY
INE STA 194+50(STH158)
1805
723.33
B2_203
U/C

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS - STH 158 EAST	SHEET 36	E

2

2

N

CANOPY

SIGN

SIGN

FO

FO

GUY

SIGN

MATCHLINE STA 188+10(STH158)

DIAMOND GRINDING
MATCH POINT
STA 183+83(STH158)

182+00(STH 158) 183+00(STH 158) 184+00(STH 158) 185+00(STH 158) 186+00(STH 158) 187+00(STH 158) 188+00(STH 158)

STH 158

DIAMOND GRINDING
MATCH POINT
STA 182+83(STH158)

6

3 4 (C&G-3')

SIGN

MH

MH

POST

6

SAN

SIGN

MH

3 4 (C&G-3')

LEGEND

1. CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT
2. REMOVING CONCRETE PAVEMENT PARTIAL DEPTH
3. REMOVING CONCRETE CURB & GUTTER
4. CONCRETE CURB & GUTTER 30-INCH TYPE A
5. ADJUSTING INLET COVER
6. CONCRETE PAVEMENT REPAIR/REPLACEMENT
7. ADJUSTING MANHOLE COVERS
8. ASPHALTIC REPAIR

REMOVING ASPHALTIC SURFACE, ASPHALTIC SURFACE

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 5-INCH

REMOVING CONCRETE SIDEWALK, CONCRETE SIDEWALK 4-INCH

SAWING ASPHALT

SAWING CONCRETE

SILT FENCE

NOTES:

1. JOINT AND CRACK REPAIR AS DIRECTED BY ENGINEER
2. CONCRETE BASE PATCH AS DIRECTED BY ENGINEER
3. SAW CUT REQ'D AT ALL CURB & GUTTER LOCATIONS
4. SAW CUT LOCATIONS TO BE VERIFIED BY ENGINEER (TYP.)
5. PLACE CURB & GUTTER SLOPE TO MATCH ADJACENT CURB & GUTTER
6. PLACE INLET PROTECTION TYPE C (TYPICAL) AT ALL INLET LOCATIONS (PLACE INLET PROTECTION TYPE D AT LOW POINTS)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS -STH 158 WEST	SHEET 37	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - STH 31 - (123)158west
PLOT DATE : 7/19/2022 3:08 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (XX) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

1 — 158 52nd St — M1-94S SIGNAL ARM

2 — 31 Green Bay Rd — M1-94S SIGNAL ARM

3 — REMOVE — W12-1D(2M) 2' HEIGHT

4 — REMOVE — STOP — R1-1F (3) S.P.

5 — REMOVE — DO NOT ENTER — R5-1 (3) S.P.

6 — REMOVE — STOP — R1-1F (3) S.P.

7 — REMOVE — ONE WAY — R6-2L (2M) S.P.

8 — REMOVE — R4-7 (3) S.P.

9 — REMOVE — ONE WAY — R6-2L (2M) S.P.

10 — REMOVE — STOP — R1-1F (3) S.P.

11 — REMOVE — STOP — R1-1F (3) S.P.

12 — REMOVE — R4-7 (3) S.P.

13 — REMOVE — RIGHT TURN YIELD ON FLASHING YELLOW ARROW

14 — NORTH 31 — J3-1 MOVE UP HIGH

15 — REMOVE — W12-1D(2M) 2' HEIGHT

16 — REMOVE — STOP — R1-1F (3) S.P.

17 — 158 52nd St — M1-94S SIGNAL ARM

18 — REMOVE — ONE WAY — R6-2L (2M) S.P.

19 — REMOVE — DO NOT ENTER — R5-1 (3) S.P.

20 — REMOVE — STOP — R1-1F (3) S.P.

21 — R4-7(3) S.P.

22 — REMOVE — RIGHT TURN YIELD ON FLASHING YELLOW ARROW

23 — REMOVE — W12-1D(2M) 2' HEIGHT

24 — REMOVE — STOP — R1-1F (3) S.P.

25 — REMOVE — DO NOT ENTER — R5-1 (3) S.P.

26 — TO 94 — J3-1 MOVE S.P.

27 — 31 Green Bay Rd — M1-94S SIGNAL ARM

28 — ONE WAY — R6-2L (2M) S.P.

29 — REMOVE — STOP — R1-1F (3) S.P.

30 — REMOVE — SOUTH 31 — J3-1 MOVE UP HIGH

31 — REMOVE — W12-1D(2M) 2' HEIGHT

32 — REMOVE — R4-7 (3) S.P.

33 — RIGHT TURN YIELD ON FLASHING YELLOW ARROW — REMOVE S.P.

34 — RIGHT TURN YIELD ON FLASHING YELLOW ARROW — REMOVE

35 — R1-2 ESTR

108 — R1-2 (2S) MOVE TO NEW L.P.

109 — R1-2 (2S) MOVE TO NEW L.P.

110 — R1-2 (2S) MOVE TO NEW L.P.

STH 158 188+00 STH158 189+00 STH158 190+00 STH158 191+00 STH158

STH 31

379+00 380+00 381+00 382+00 383+00 384+00

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTIES	PHONE #
JENNY BUCKETT	MILWAUKEE,KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
CHUCK SALDIVAR	RACINE, WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

WOOD POST SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.

SHEET 1 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 38	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIGN\023201_PS_20.DWG
LAYOUT NAME - 01
PLOT DATE : 4/11/2022 8:17 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

2

2

N

CTH S/38TH ST

51 — 31 Green Bay Rd — M1-94S SIGNAL ARM

REMOVE 55 — STOP — R1-1F (3) S.P.

111 — YIELD — R1-2 (2S) MOVE TO NEW L.P.

REMOVE 54 — W12-1D (2M) 2' HEIGHT

REMOVE 53 — STOP — R1-1F (3) S.P.

112 — YIELD — R1-2 (2S) MOVE TO NEW L.P.

REMOVE 50 — STOP — R1-1F (3) S.P.

REMOVE 52 — R4-7 (3) S.P.

REMOVE 49 — W12-1D (2M) 2' HEIGHT

REMOVE 43 — ONE WAY — R6-2L (2M)

58 — ONE WAY — R6-2L (2M) S.P.

44 — 38th St / Washington Rd — M1-94S SIGNAL ARM

REMOVE 57 — R4-7 (3)

REMOVE 47 — R4-7 (3) S.P.

REMOVE 48 — STOP — R1-1F (3) S.P.

REMOVE 56 — STOP — R1-1F (3) S.P.

REMOVE 38 — R4-7 (3) S.P.

REMOVE 46 — ONE WAY — R6-2L (2M)

45 — 38th St / Washington Rd — M1-94S SIGNAL ARM

114 — YIELD — R1-2 (2S) MOVE TO NEW L.P.

REMOVE 36 — STOP — R1-1F (3) S.P.

41 — ONE WAY — R6-2L (2M) S.P.

113 — YIELD — R1-2 (2S) MOVE TO NEW L.P.

REMOVE 39 — STOP — R1-1F (3) S.P.

REMOVE 42 — W12-1D (2M) 2' HEIGHT

35 — 31 Green Bay Rd — M1-94S SIGNAL ARM

37 — STOP — REMOVE — R1-1F (3) S.P.

REMOVE 40 — W12-1D (2M) 2' HEIGHT

WASHINGTON RD

CTH S 59+00

CTH S 60+09

61+00 CTH S

PI: 61+66.55 CTH S

433+00 434+00 435+00 436+00 437+00 438+00

STH 31

SHEET 2 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 39	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIGN\023201_PS_20.DWG
LAYOUT NAME - 02

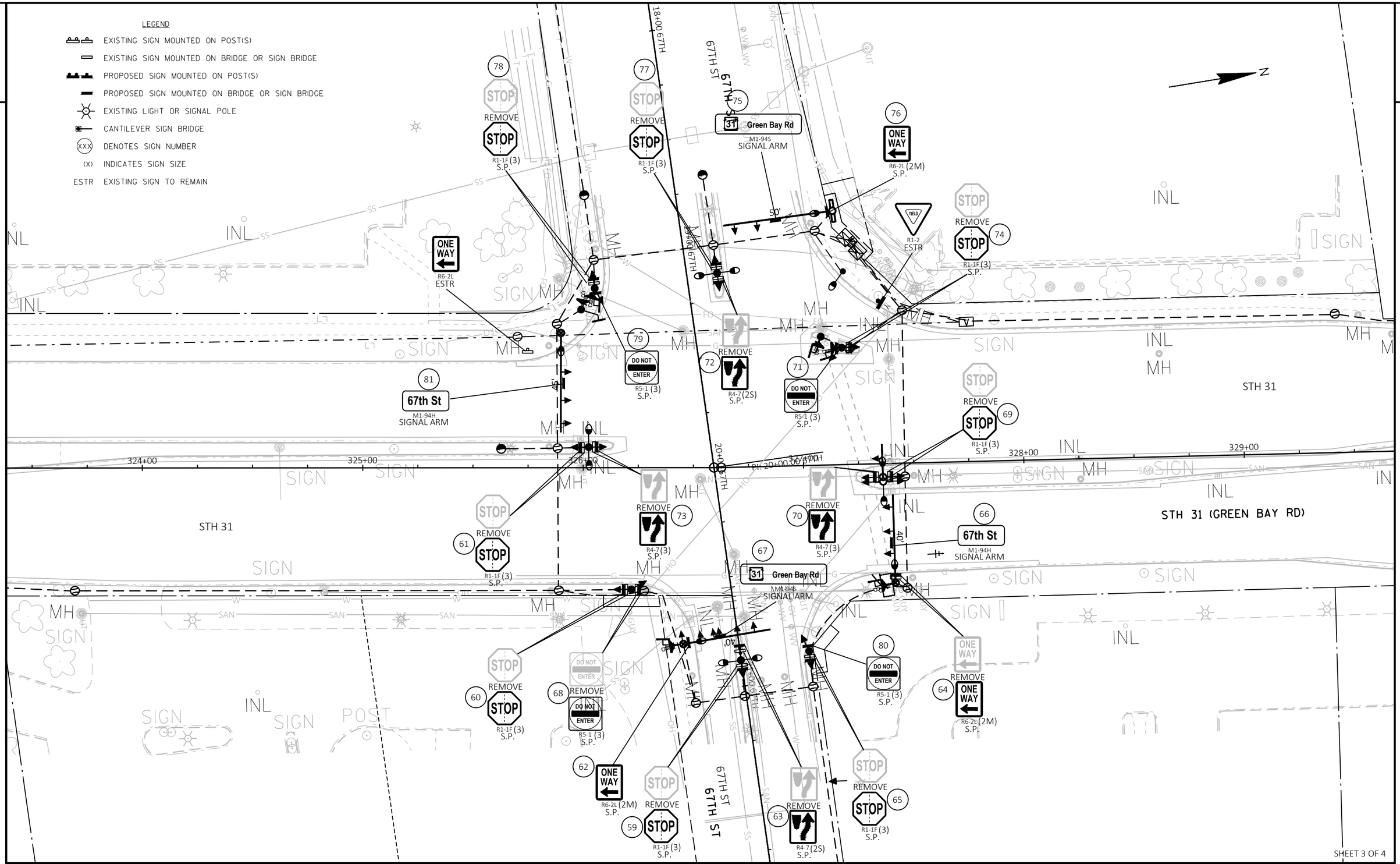
PLOT DATE : 4/11/2022 8:17 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 3 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 40	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIGN\023201_PS_20.DWG
LAYOUT NAME - 03

PLOT DATE : 4/11/2022 8:17 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

105 ONE WAY REMOVE ONE WAY R6-2L (2M) S.P.

106 STOP REMOVE STOP R1-1F (3) S.P.

R1-2 ESTR

REMOVE 104 W12-1D (2M) 2' HEIGHT

DO NOT ENTER R5-1 ESTR

CTH K (60TH ST)

103 STOP REMOVE STOP R1-1F (3) S.P.

100 31 Green Bay Rd M1-94S SIGNAL ARM

99 ONE WAY R6-2L (2M) S.P.

97 STOP REMOVE STOP R1-1F (3) S.P.

R1-2 ESTR

REMOVE 96 W12-1D (2M) 2' HEIGHT

CANOPY

N

82 K 60th St M1-94S SIGNAL ARM

101 REMOVE R4-7 (3) S.P.

102 REMOVE R4-7 (2S) S.P.

98 DO NOT ENTER R5-1 (3) S.P.

94 REMOVE R4-7 (3) S.P.

93 STOP REMOVE STOP R1-1F (3) S.P.

STH 31

352+00 353+00 354+00 356+00 357+00

107 STOP REMOVE STOP R1-1F (3) S.P.

86 REMOVE R4-7 (2S) S.P.

89 DO NOT ENTER R5-1 (3) S.P.

91 K 60th St M1-94S SIGNAL ARM

92 ONE WAY REMOVE ONE WAY R6-2L (2M) S.P.

88 STOP REMOVE STOP R1-1F (3) S.P.

DO NOT ENTER R5-1 ESTR

85 STOP REMOVE STOP R1-1F (3) S.P.

115 R1-2 (2S) MOVE TO NEW L.P.

95 ONE WAY REMOVE ONE WAY R6-2L (2M) S.P.

87 STOP REMOVE STOP R1-1F (3) S.P.

83 31 Green Bay Rd M1-94S SIGNAL ARM

REMOVE 90 W12-1D (2M) 2' HEIGHT

R1-2 ESTR

CTH K (60TH ST)

SHEET 4 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PERMANENT SIGNING PLAN	SHEET 41	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIGN\023201_PS_20.DWG
LAYOUT NAME - 04

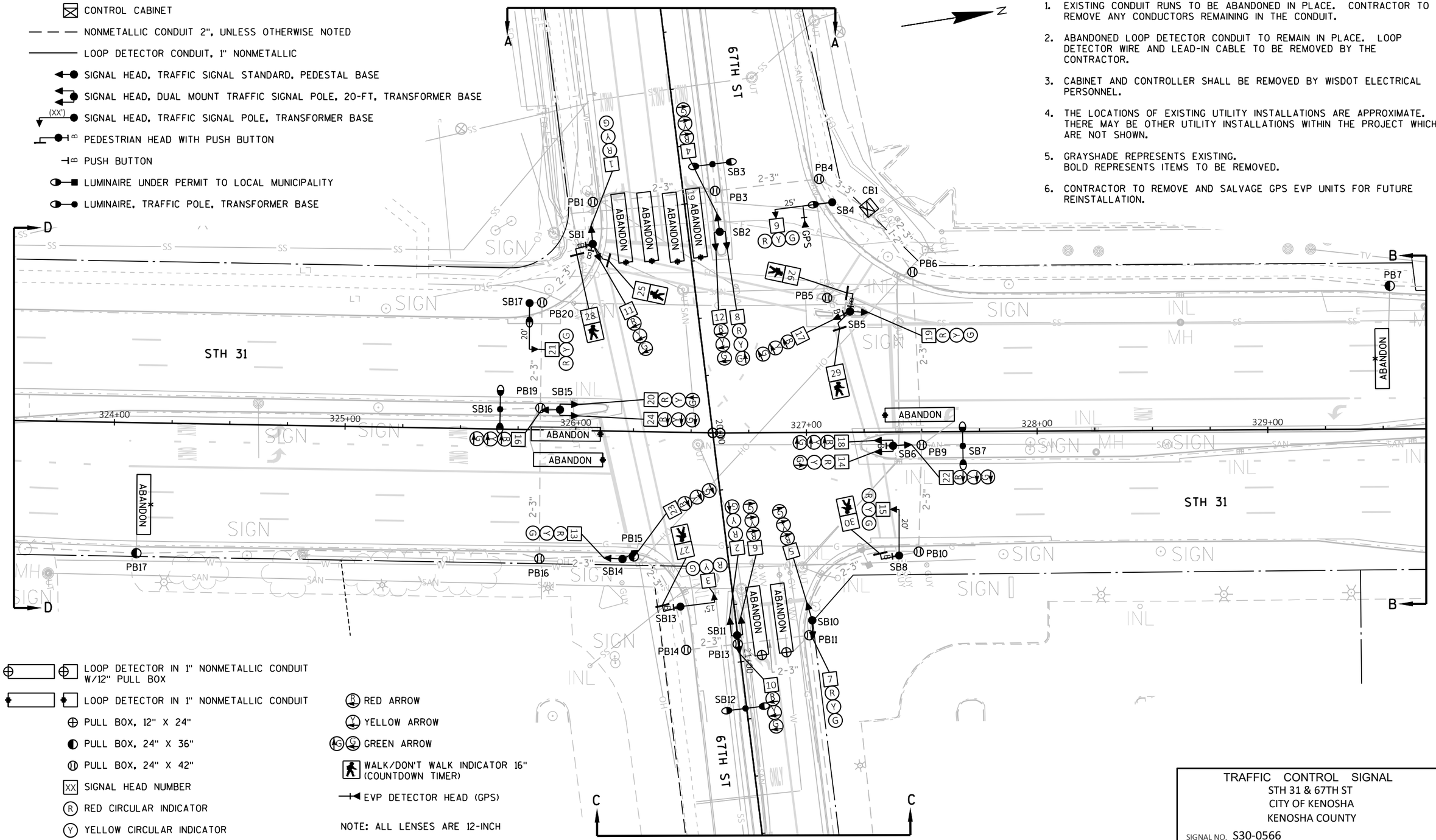
PLOT DATE : 4/11/2022 8:17 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, DUAL MOUNT TRAFFIC SIGNAL POLE, 20-FT, TRANSFORMER BASE
- (XX') SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.
6. CONTRACTOR TO REMOVE AND SALVAGE GPS EVP UNITS FOR FUTURE REINSTALLATION.



- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT W/12" PULL BOX
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DETECTOR HEAD (GPS)

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 31 & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

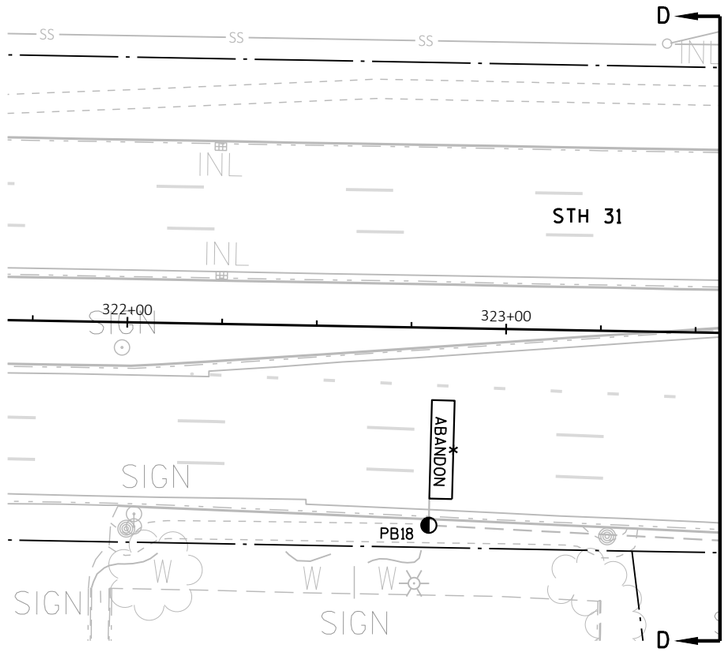
SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

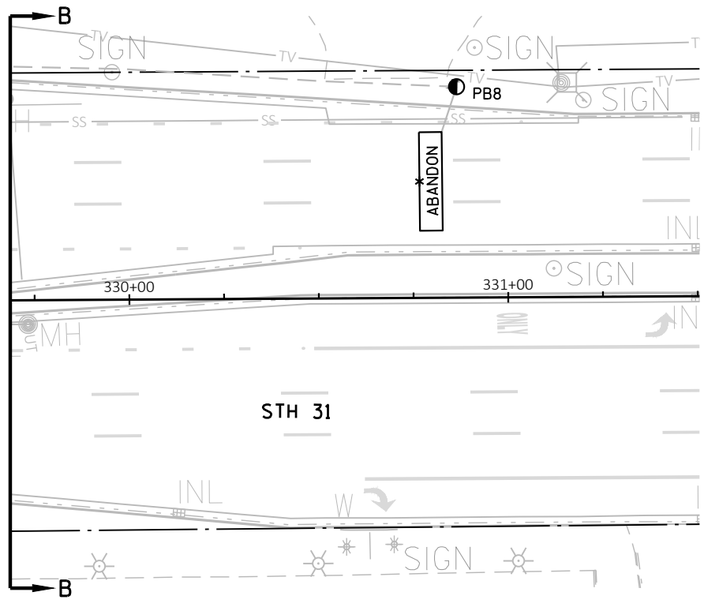
PAGE 1 OF 2

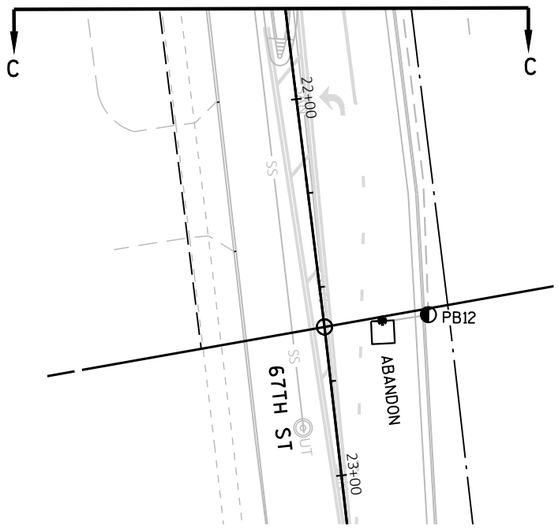
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 42	E

2









TRAFFIC CONTROL SIGNAL
STH 31 & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 2 OF 2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 43	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_REM_20.DWG
LAYOUT NAME - S30-0566_rem_pg2

PLOT DATE : 4/28/2022 6:55 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
585 LF	SPAN WIRE
4 EA	PORTABLE UNIT/SKID
28 EA	SIGNAL HEADS
6 EA	PEDESTRIAN HEADS
6 EA	PUSH BUTTONS
1 LS	NON-INTRUSIVE DETECTION SYSTEM
3 EA	LIGHTING LED-C OR 250 W HPS

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- LANE DESIGNATION (FOR INFO ONLY)
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- NON-INTRUSIVE DETECTION AREA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. UPON CONSTRUCTION COMPLETION, CONTRACTOR SHALL REMOVE AND SALVAGE GPS EVP FOR FUTURE REINSTALLATION.

TRAFFIC CONTROL SIGNAL
STH 31 & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 1 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 44	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_TS_SPRECON_18.DWG
LAYOUT NAME - TS_SPrecon
PLOT DATE : 4/28/2022 7:14 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- LANE DESIGNATION (FOR INFO ONLY)
- RR RED ARROW
- YY YELLOW ARROW
- GG GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- NON-INTRUSIVE DETECTION AREA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

180' TO NEAR RIGHT SIGNAL

SPEED LIMIT= 25 MPH

67TH STREET

R/W

SPEED LIMIT= 45 MPH

STH 31 (GREEN BAY RD)

WP1 WP2 WP3 WP4 WP5 WP6 GPS

TLE

324 325 327 328 329

TRAFFIC CONTROL SIGNAL
STH 31 & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

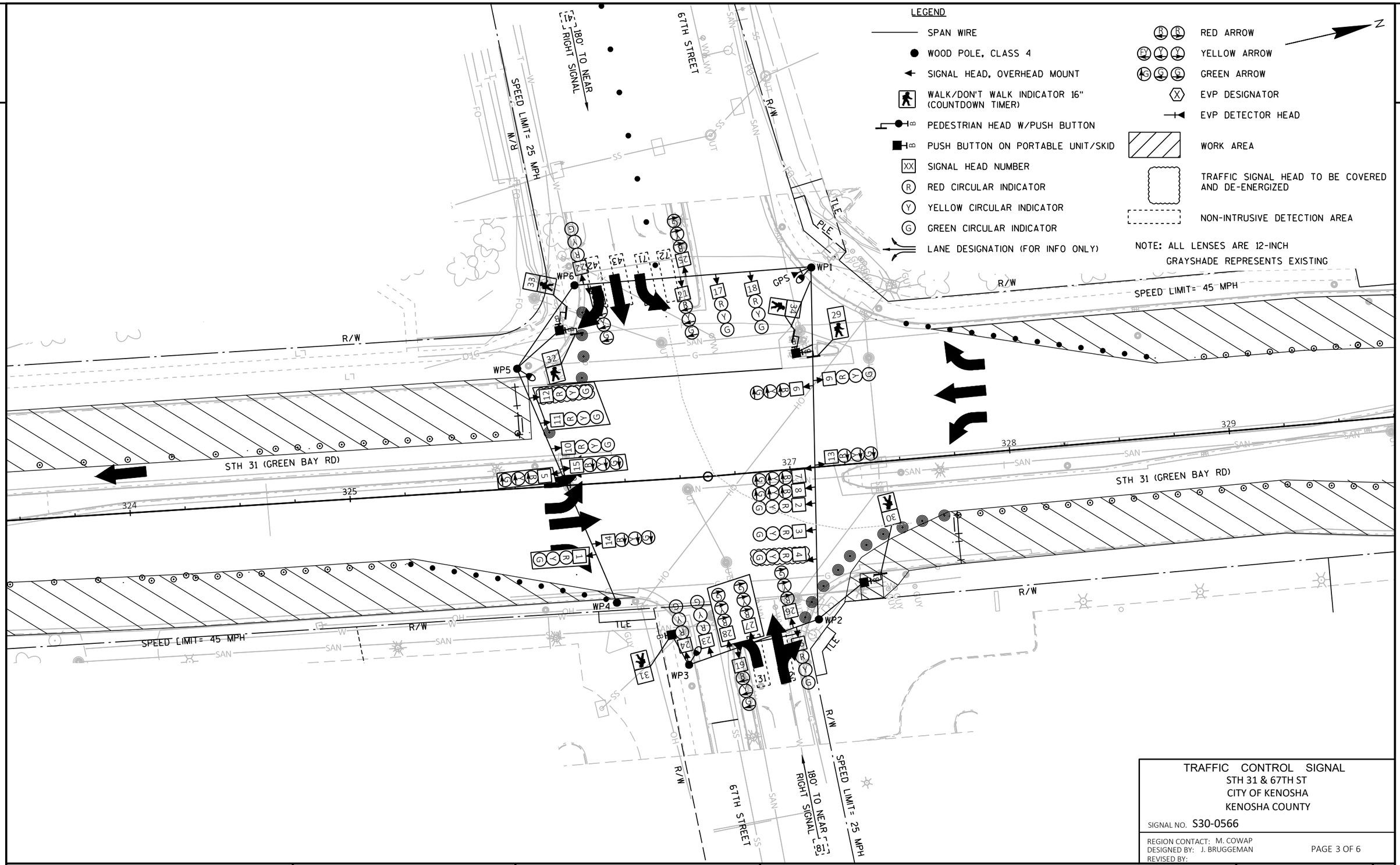
PAGE 2 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 45	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_TS_S1_18.DWG
LAYOUT NAME - TS_S1

PLOT DATE : 4/28/2022 7:14 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 31 & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

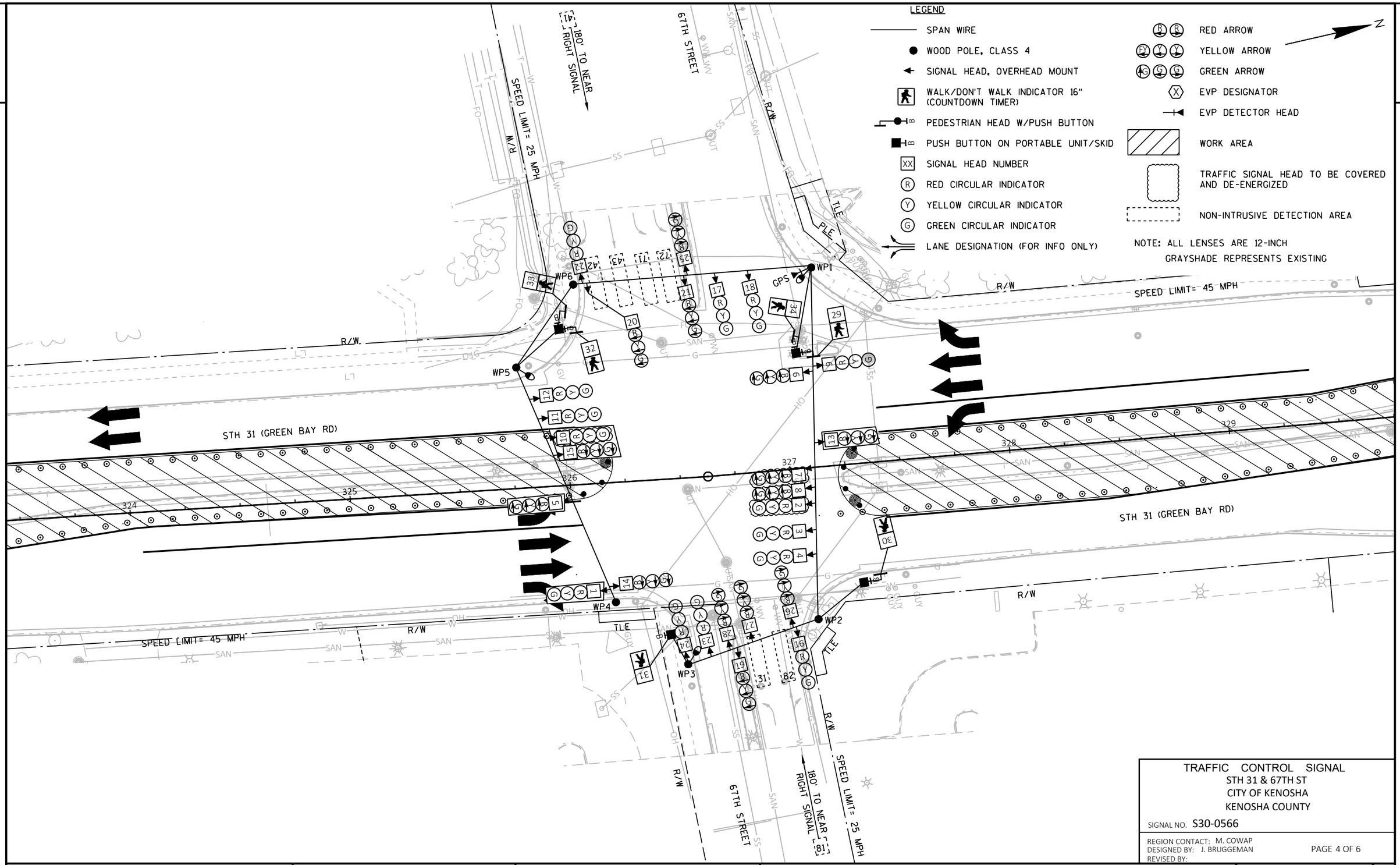
PAGE 3 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 46	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_TS_S1A_18.DWG
LAYOUT NAME - TS_S1A

PLOT DATE : 4/28/2022 7:14 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 31 & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

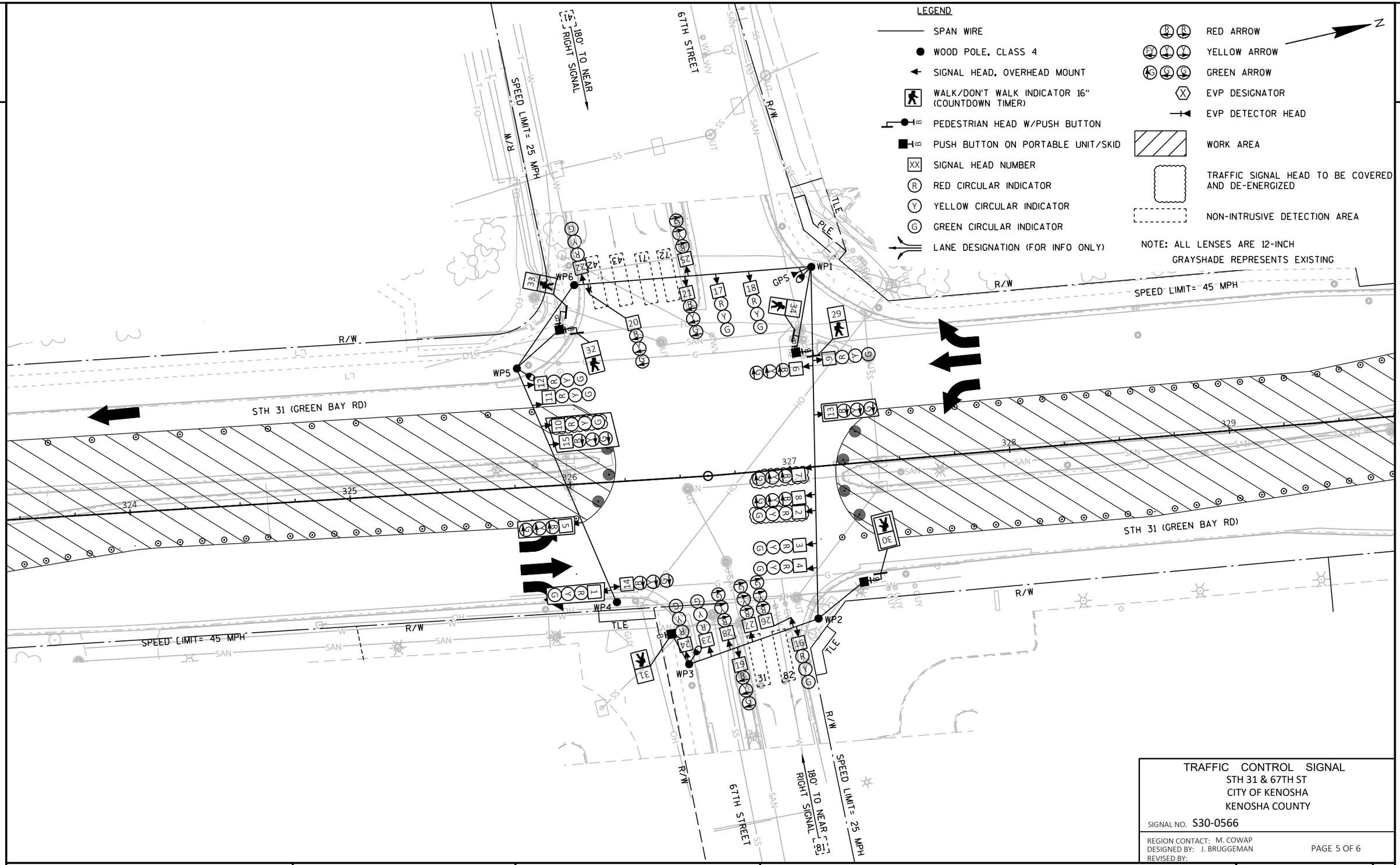
PAGE 4 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 47	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_TS_S2_18.DWG
LAYOUT NAME - TS_S2

PLOT DATE : 4/28/2022 7:15 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 31 & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 5 OF 6

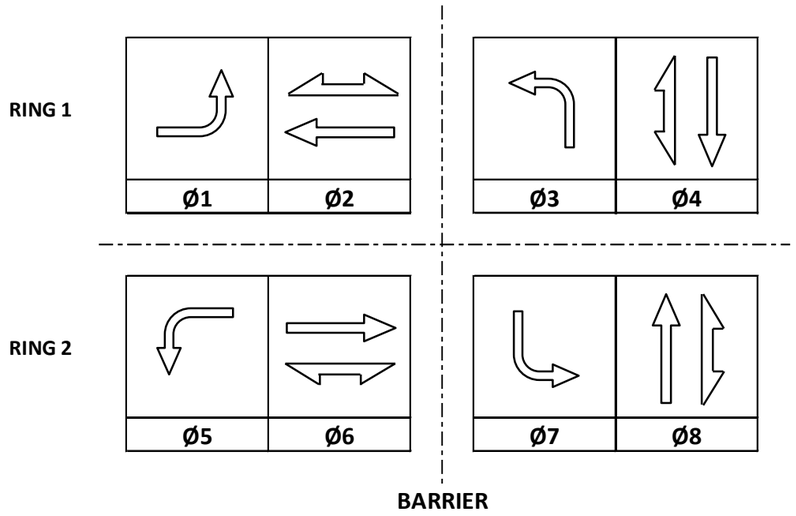
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 48	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_TS_S2A_18.DWG
LAYOUT NAME - TS_S2A

PLOT DATE : 4/28/2022 7:15 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6,7,8	R
Ø2	9,10,11,12	R
Ø3	19,20,21	R
Ø4	22,23,24	R
Ø5	13,14,15	R ←
Ø6	1,2,3,4	R
Ø7	25,26,27,28	R ←
Ø8	16,17,18	R
Ø2P	33,34	
Ø4P	29,30	
Ø6P	31,32	
Ø8P	31,32	
OLA		
OLB		
OLC		
OLD		



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
31		X			3	3					
41				X		4			X		
42		X			4	4					
43		X			4	4					
71		X			7	7					
72		X			7	7					
81				X		8			X		
82		X			8	8					

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

N

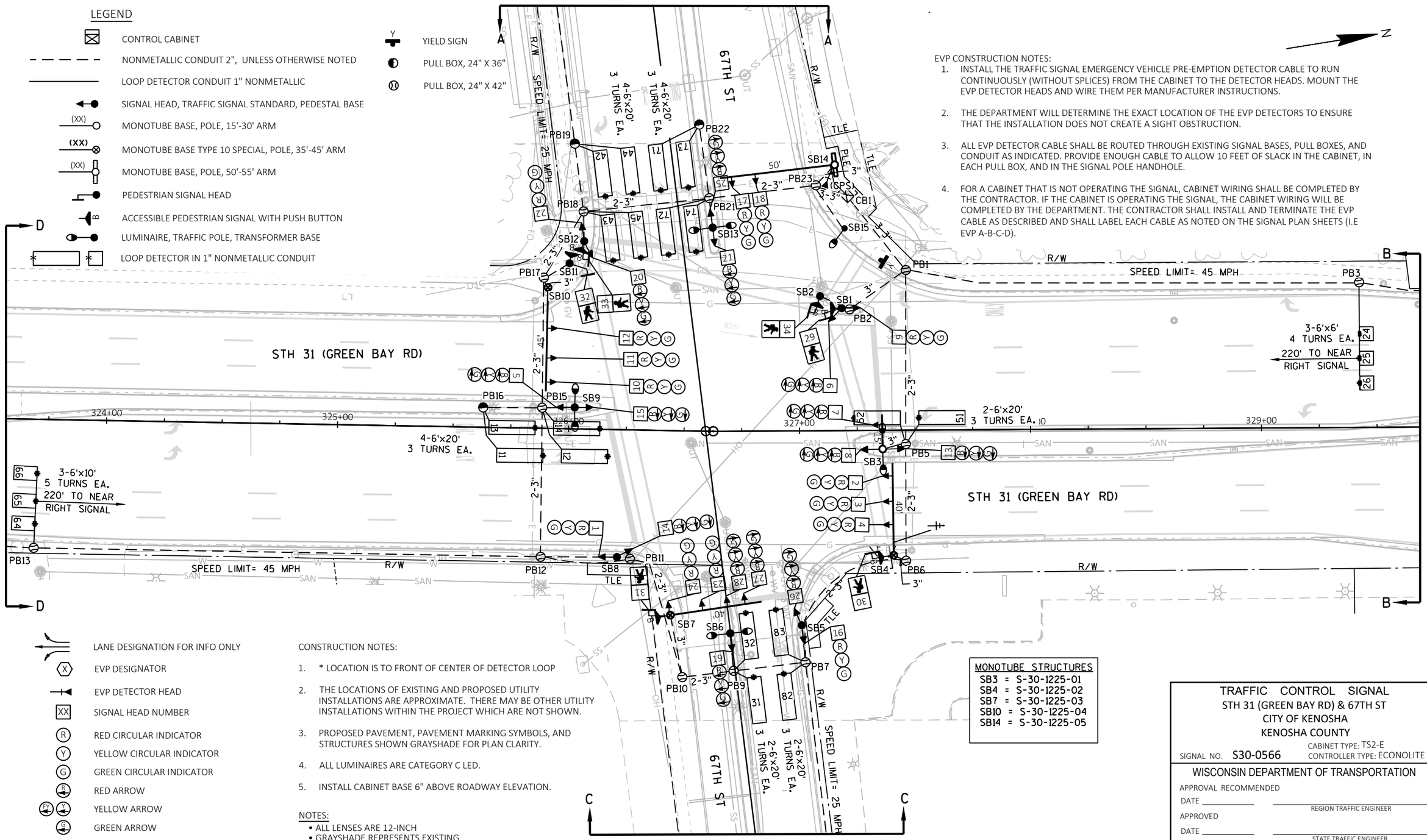
STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO:	S30-0566	CABINET TYPE: TEMP
		CONTROLLER TYPE: ECONOLITE
DATE:	MAY 2022	PAGE NUMBER: 6 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	SEQUENCE OF OPERATIONS	SHEET NO:	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE TYPE 10 SPECIAL, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- PEDESTRIAN SIGNAL HEAD
- ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- YIELD SIGN
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"



- LANE DESIGNATION FOR INFO ONLY
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- RADIO INTERCONNECT ANTENNA (5.8 GHZ)

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT OF CENTER OF DETECTOR LOOP
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. PROPOSED PAVEMENT, PAVEMENT MARKING SYMBOLS, AND STRUCTURES SHOWN GRAYSHADE FOR PLAN CLARITY.
4. ALL LUMINAIRES ARE CATEGORY C LED.
5. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.

NOTES:

- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING SHALL BE COMPLETED BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE COMPLETED BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE SIGNAL PLAN SHEETS (I.E EVP A-B-C-D).

MONOTUBE STRUCTURES
SB3 = S-30-1225-01
SB4 = S-30-1225-02
SB7 = S-30-1225-03
SB10 = S-30-1225-04
SB14 = S-30-1225-05

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY
SIGNAL NO. S30-0566
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

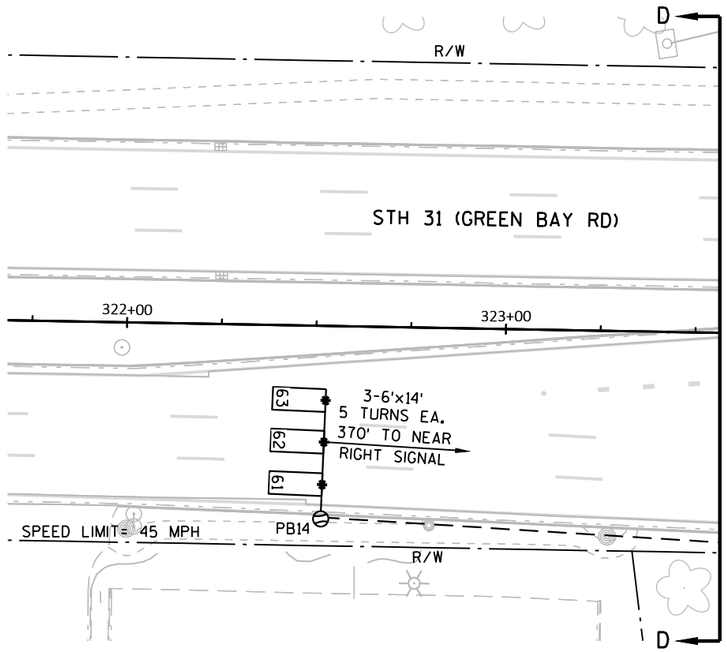
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE _____ REGION TRAFFIC ENGINEER
APPROVED
DATE _____ STATE TRAFFIC ENGINEER

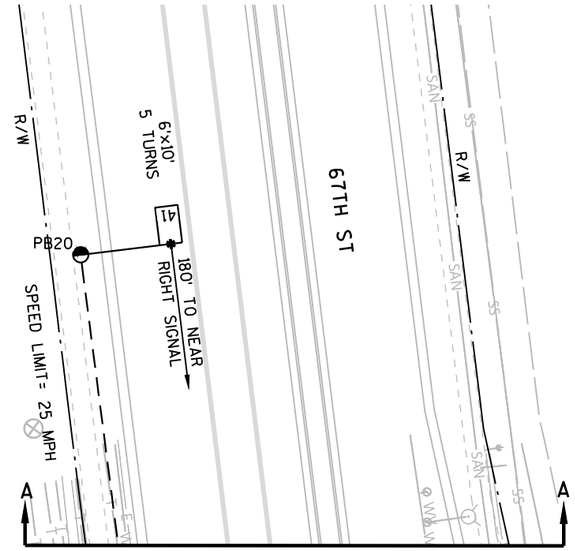
REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

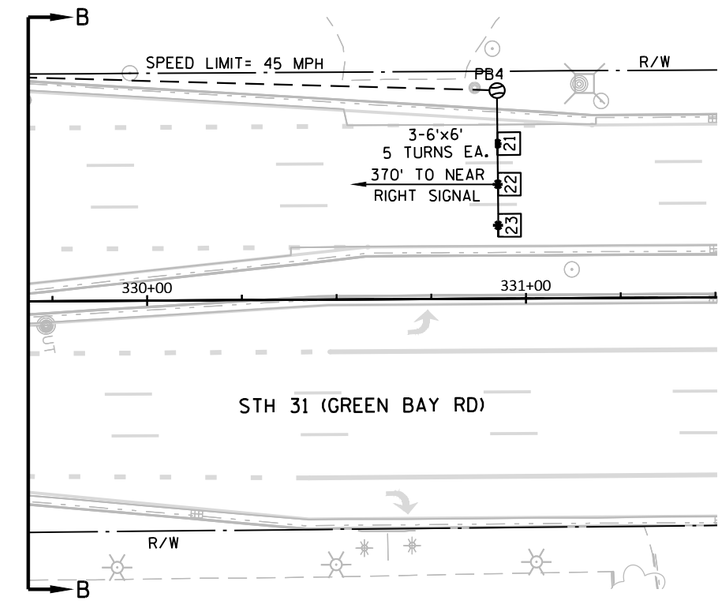
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 50	E

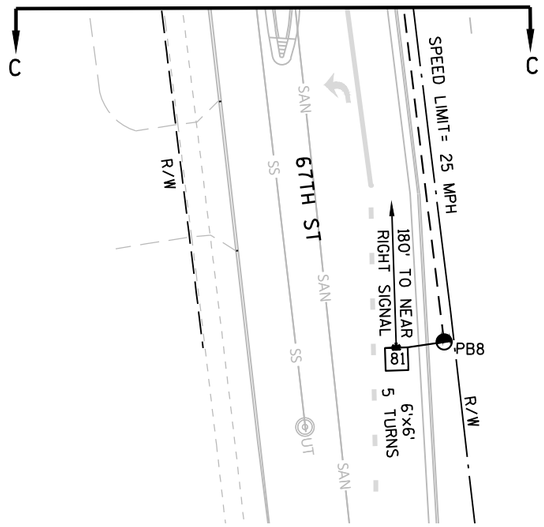
FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_18.DWG
LAYOUT NAME - 0242201-67th
PLOT DATE : 5/24/2022 8:58 AM
PLOT BY : BRUGGEMAN, JOHN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2









TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

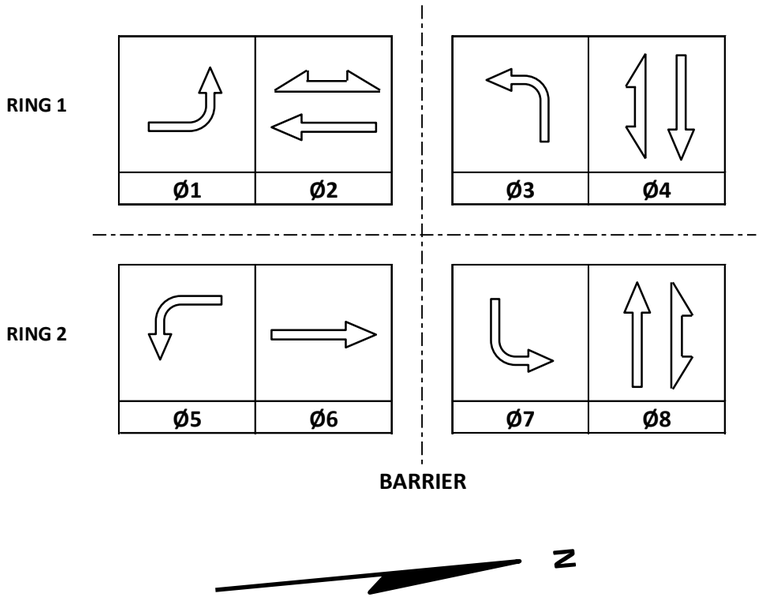
PAGE 2 OF 3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 51	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0566\S30-0566_18.DWG
LAYOUT NAME - 0242201-67th_p2

PLOT DATE : 5/24/2022 8:59 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6,7,8	R ←
Ø2	9,10,11,12	R
Ø3	19,20,21	R ←
Ø4	22,23,24	R
Ø5	13,14,15	R ←
Ø6	1,2,3,4	R
Ø7	25,26,27,28	R ←
Ø8	16,17,18	R
Ø2P	33,34	
Ø4P	31,32	
Ø6P		
Ø8P	29,30	
OLE		
OLF		
OLG		
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	X
CELL MODEM	

TYPE OF COORDINATION		
NONE		
TBC		X
TRAFFIC RESPONSIVE		
ADAPTIVE		
*LOCATION OF MASTER CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	30-0001

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER (GPS)	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33	39	37	43	41	47	45	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	12	21	23	25	31	41	43	45	52	62	64	66	72	74	82	APS	APS							PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	2	2	2	3	4	4	4	5	6	6	6	7	7	8	2	4							CALLED PHASE
CALL OPTION	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X							CALL OPTION
DELAY TIME								X																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							EXTENTION OPTION
EXTEND TIME							X																		EXTEND TIME
USE ADDED INITIAL			X	X	X						X	X	X												USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34	40	38	44	42	48	46	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	13	14	22	24	26	32	42	44	51	61	63	65	71	73	81	83		APS							PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	2	2	2	3	4	4	5	6	6	6	7	7	8	8		8							CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X							CALL OPTION
DELAY TIME							X									X									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X							EXTENTION OPTION
EXTEND TIME															X										EXTEND TIME
USE ADDED INITIAL			X	X	X					X	X	X													USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO: S30-0566 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: MAY 2022 PAGE NUMBER: 3 OF 3

FILE NAME: C:\BoxDrv\Box\DTSD\DTSD-SER\OPS\Traffic\Signals\Databases\Signal Intersection Files\S30-0566\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 1/25/2022 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

STH 31 & 67TH ST

PROJECT ID:	3330-07-70
INTERSECTION:	STH 31 (GREEN BAY RD) & 67TH ST

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	15	6				RED	ORG	GRN					
		9	RED/BLK	ORG/BLK	GRN/BLK								
		29								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB2	7	34								BLK	BLU		
		B										RED	WHT/BLK
SB3	12	7				RED	ORG	GRN					
		8				RED	ORG	GRN					
		13				RED/BLK	ORG/BLK	GRN/BLK					
SB4	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		30								BLK	BLU		
		B										RED/WHT	WHT/BLK
						RED	ORG	GRN					
SB5	12	16	RED/BLK	ORG/BLK	GRN/BLK								
		26											
SB6	7	19				RED	ORG	GRN					
SB7	15	23	RED	ORG	GRN								
		24	RED	ORG	GRN								
		27				RED/BLK	ORG/BLK	GRN/BLK					
		28				RED/BLK	ORG/BLK	GRN/BLK					
		31								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB8	12	1	RED	ORG	GRN								
		14				RED/BLK	ORG/BLK	GRN/BLK					
SB9	12	5				RED	ORG	GRN					
		15				RED/BLK	ORG/BLK	GRN/BLK					
SB10	7	10	RED	ORG	GRN								
		11	RED	ORG	GRN								
		12	RED	ORG	GRN								
SB11	7	32								BLK	BLU		
		B										RED	WHT/BLK
SB12	15	20				RED/BLK	ORG/BLK	GRN/BLK					
		22	RED	ORG	GRN								
		33								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB13	12	21				RED/BLK	ORG/BLK	GRN/BLK					
		25				RED	ORG	GRN					
SB14	7	17	RED	ORG	GRN								
		18	RED	ORG	GRN								

STH 31 & 67TH ST

2

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB5	SB3
PB6	SB4
PB7	SB5
PB9	SB6
PB10	SB7
PB11	SB7
PB12	SB8
PB16	SB9
PB17	SB10
PB18	SB10
PB21	SB13
PB23	CB1

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB3
SB3	SB6
CB1	SB15
SB15	SB13
SB13	SB9

Radio Antenna Cable	
From	To
CB1	SB4

***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.**
***Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX') SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT W/12" PULL BOX
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
6. CONTRACTOR TO REMOVE AND SALVAGE GPS EVP UNITS FOR FUTURE REINSTALLATION.

CTH K (60TH ST)

STH 31 (GREEN BAY RD)

- PULL BOX, 12" X 24"
- PULL BOX, 18" X 24"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DETECTOR HEAD (GPS)

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 1 OF 3

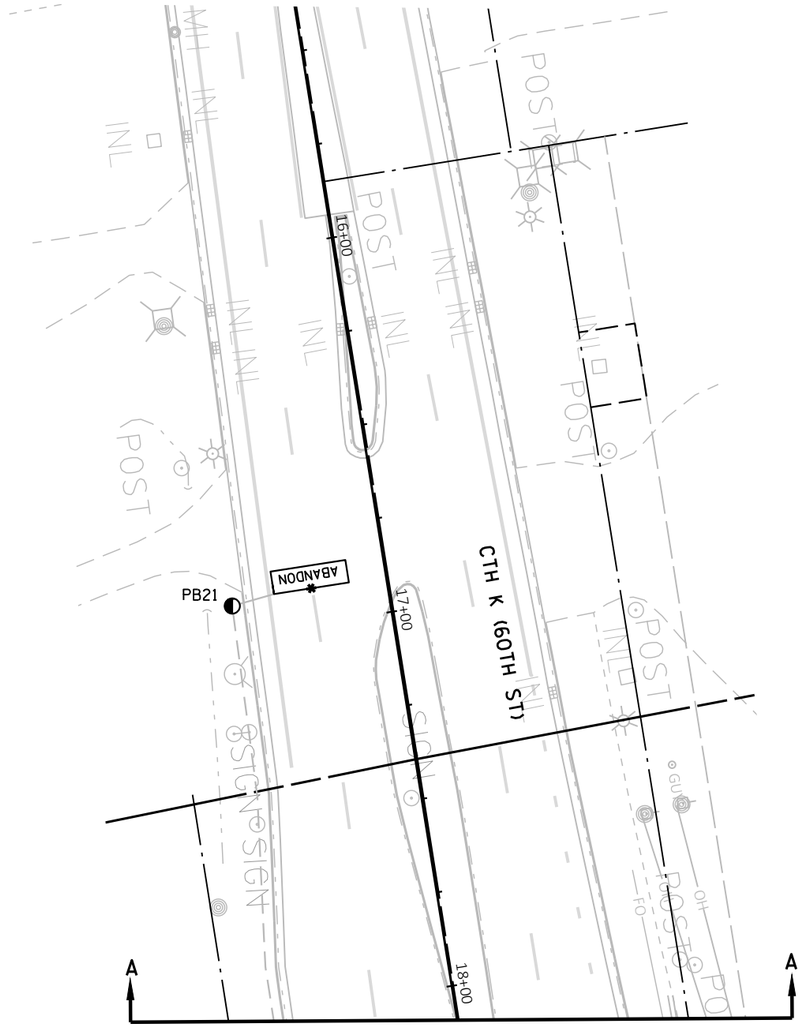
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 55	E

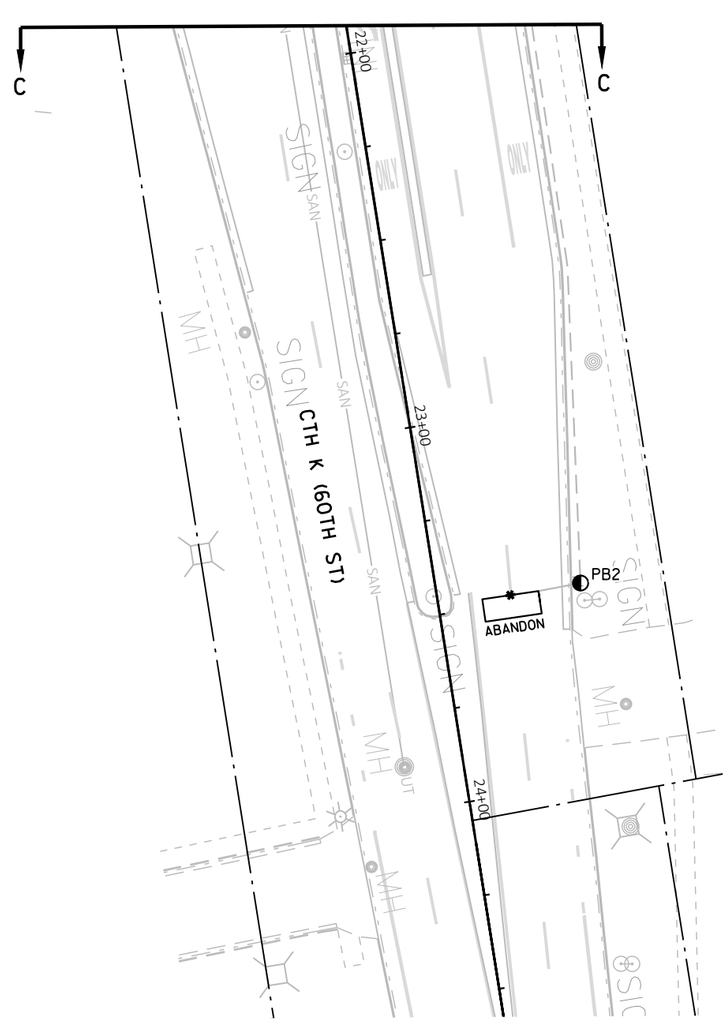
FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_REM_20.DWG
LAYOUT NAME - S30-0154_rem_pg1

PLOT DATE : 4/26/2022 9:17 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 2 OF 3

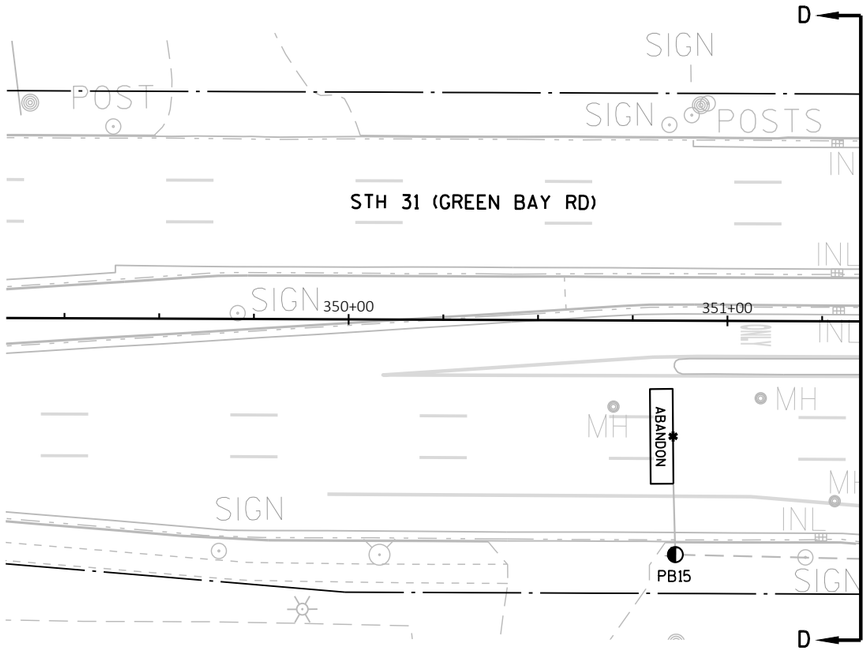
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 56	E

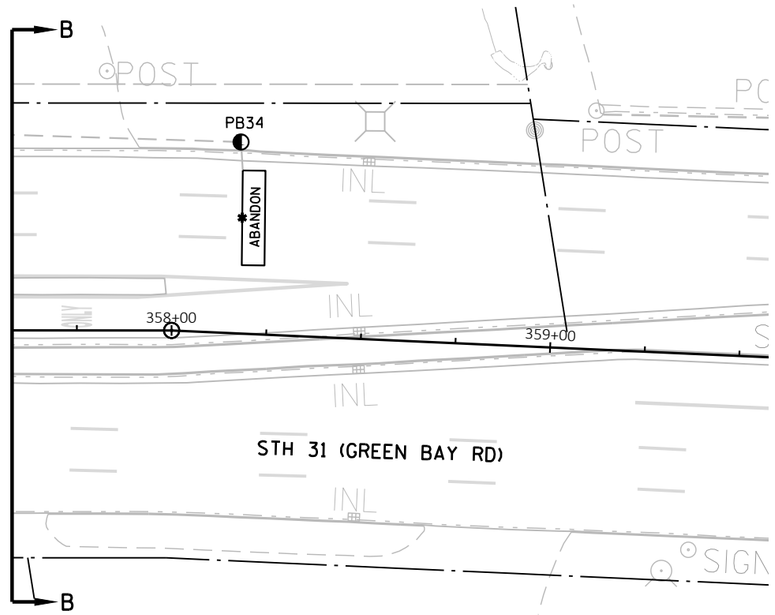
FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_REM_20.DWG
LAYOUT NAME - S30-0154_rem_pg2

PLOT DATE : 4/26/2022 9:17 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

2

N





TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

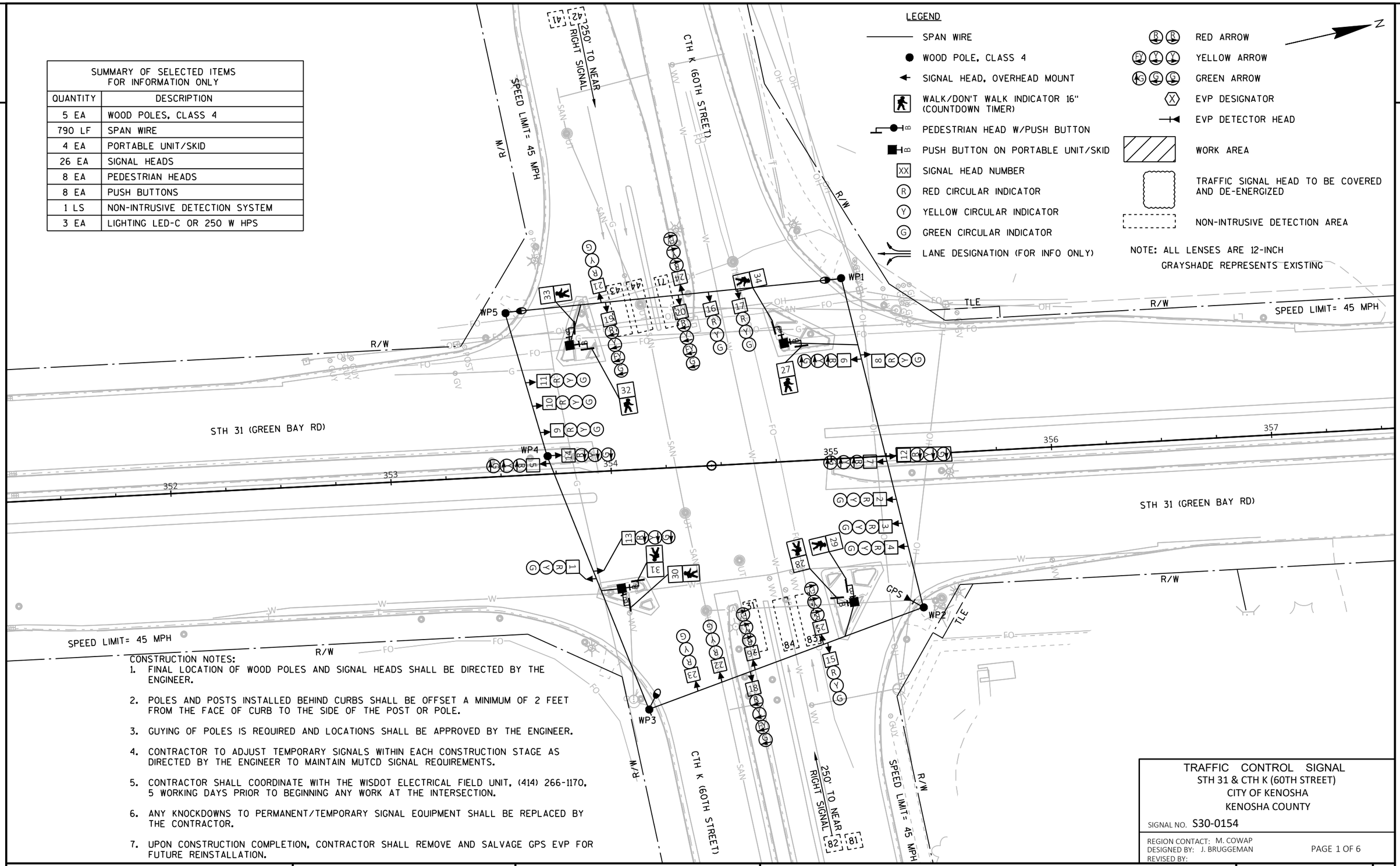
PAGE 3 OF 3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 57	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_REM_20.DWG
LAYOUT NAME - S30-0154_rem_pg3

PLOT DATE : 4/26/2022 9:17 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
5 EA	WOOD POLES, CLASS 4
790 LF	SPAN WIRE
4 EA	PORTABLE UNIT/SKID
26 EA	SIGNAL HEADS
8 EA	PEDESTRIAN HEADS
8 EA	PUSH BUTTONS
1 LS	NON-INTRUSIVE DETECTION SYSTEM
3 EA	LIGHTING LED-C OR 250 W HPS



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. UPON CONSTRUCTION COMPLETION, CONTRACTOR SHALL REMOVE AND SALVAGE GPS EVP FOR FUTURE REINSTALLATION.

TRAFFIC CONTROL SIGNAL
STH 31 & CTH K (60TH STREET)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 1 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 58	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_TS_SPRECON_18.DWG
LAYOUT NAME - TS_SPrecon
PLOT DATE : 4/28/2022 7:25 AM
PLOT BY : BRUGGEMAN, JOHN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- LANE DESIGNATION (FOR INFO ONLY)
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- NON-INTRUSIVE DETECTION AREA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

STH 31 (GREEN BAY RD)
SPEED LIMIT= 45 MPH
R/W
CTH K (60TH STREET)
250' TO NEAR RIGHT SIGNAL
TLE
GPS
WP1
WP2
WP3
WP4
WP5
352+00
353+00
354+00
355+00
356+00
357+00

TRAFFIC CONTROL SIGNAL
STH 31 & CTH K (60TH STREET)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

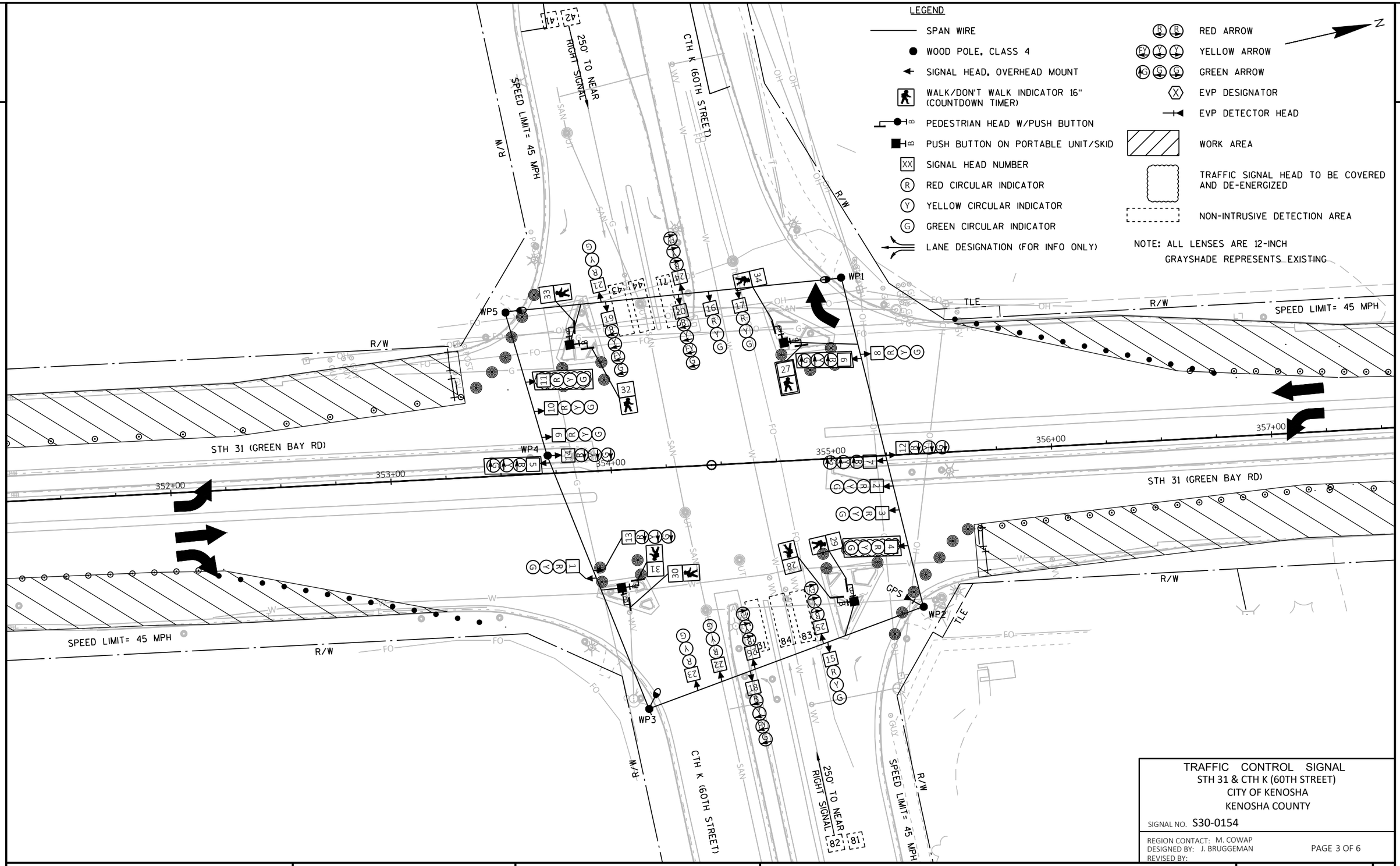
PAGE 2 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 59	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_TS_S1_18.DWG
LAYOUT NAME - TS_S1

PLOT DATE : 4/28/2022 7:27 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 31 & CTH K (60TH STREET)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 3 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 60	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_TS_S1A_18.DWG
LAYOUT NAME - TS_S1A

PLOT DATE : 4/28/2022 7:29 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- LANE DESIGNATION (FOR INFO ONLY)
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- NON-INTRUSIVE DETECTION AREA

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

STH 31 (GREEN BAY RD)

SPEED LIMIT= 45 MPH

R/W

CTH K (60TH STREET)

250' TO NEAR RIGHT SIGNAL

TLE

GPS

WP1 WP2 WP3 WP4 WP5

352 353 354 355 356 357

TRAFFIC CONTROL SIGNAL
STH 31 & CTH K (60TH STREET)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

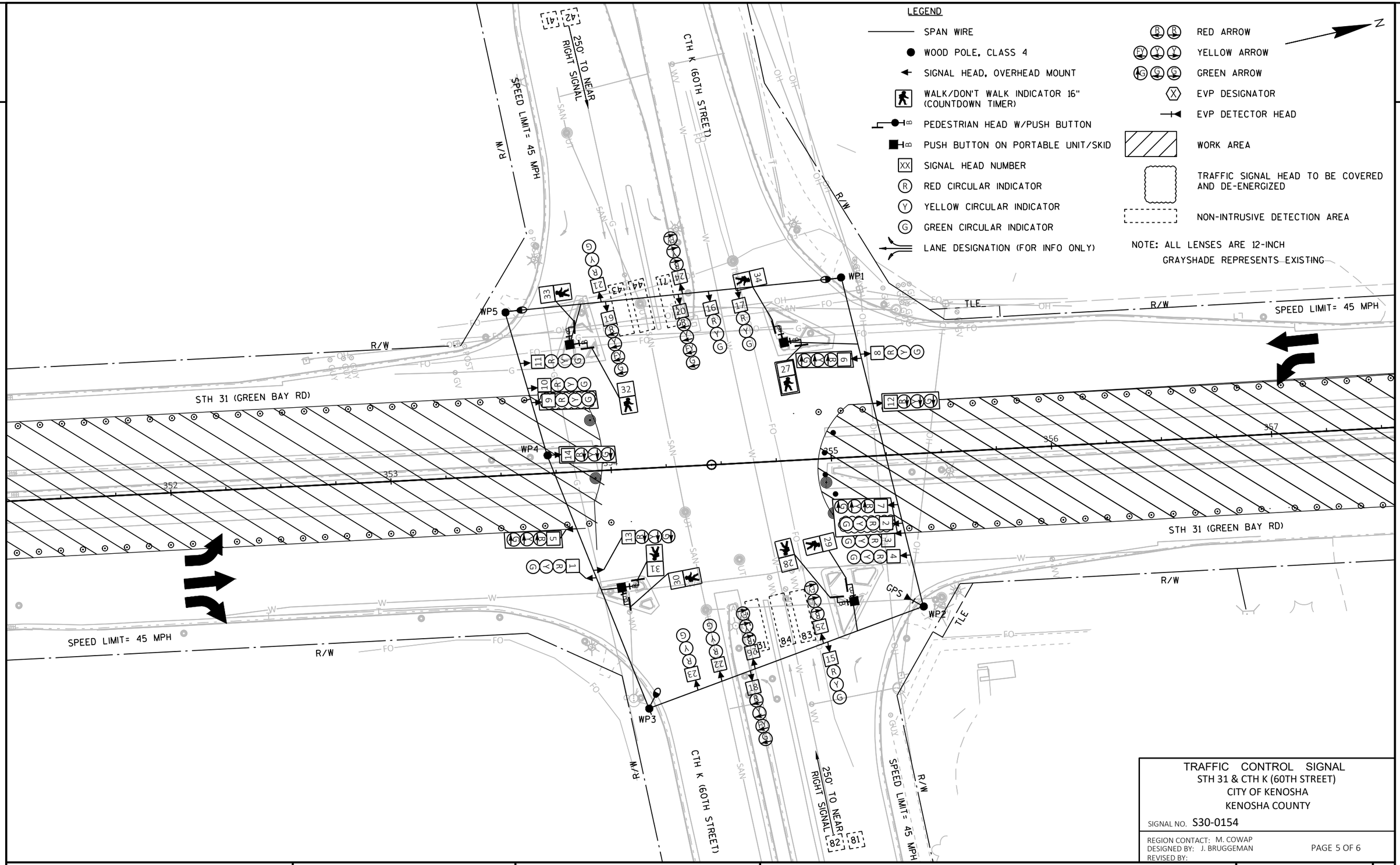
PAGE 4 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 61	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_TS_S2_18.DWG
LAYOUT NAME - TS_S2

PLOT DATE : 4/28/2022 7:31 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 62 E

TRAFFIC CONTROL SIGNAL
STH 31 & CTH K (60TH STREET)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 5 OF 6

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_TS_S2A_18.DWG
LAYOUT NAME - TS_S2A

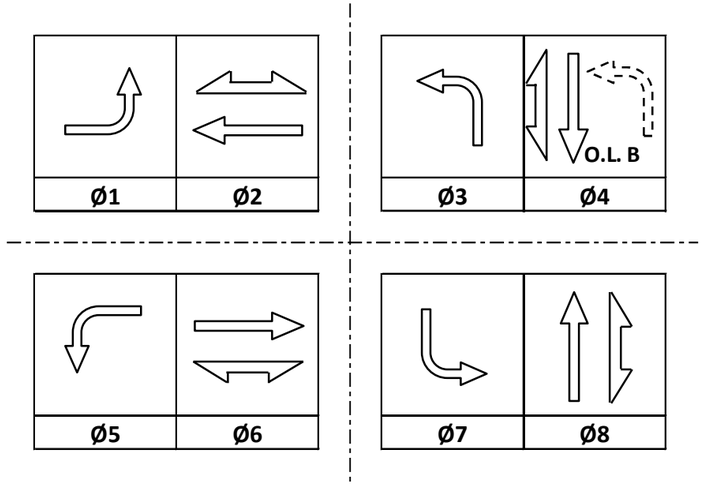
PLOT DATE : 4/28/2022 7:31 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R
Ø2	8,9,10,11	R
Ø3	18,19,20	R
Ø4	21,22,23	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	24,25,26	R ←
Ø8	15,16,17	R
Ø2P	33,34	
Ø4P	31,32	
Ø6P	29,30	
Ø8P	33,34	
OLA		
OLB	18,19,20	R ←
OLC		
OLD		

RING 1

RING 2



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
31		X			3	3					
41				X		4			X		
42				X		4			X		
43		X			4	4					
44		X			4	4					
71		X			7	7					
81				X		8			X		
82				X		8			X		
83		X			8	8					
84		X			8	8					

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

N

STH 31 (GREEN BAY RD) & CTH K (60TH STREET)
CITY OF KENOSHA
KENOSHA COUNTY

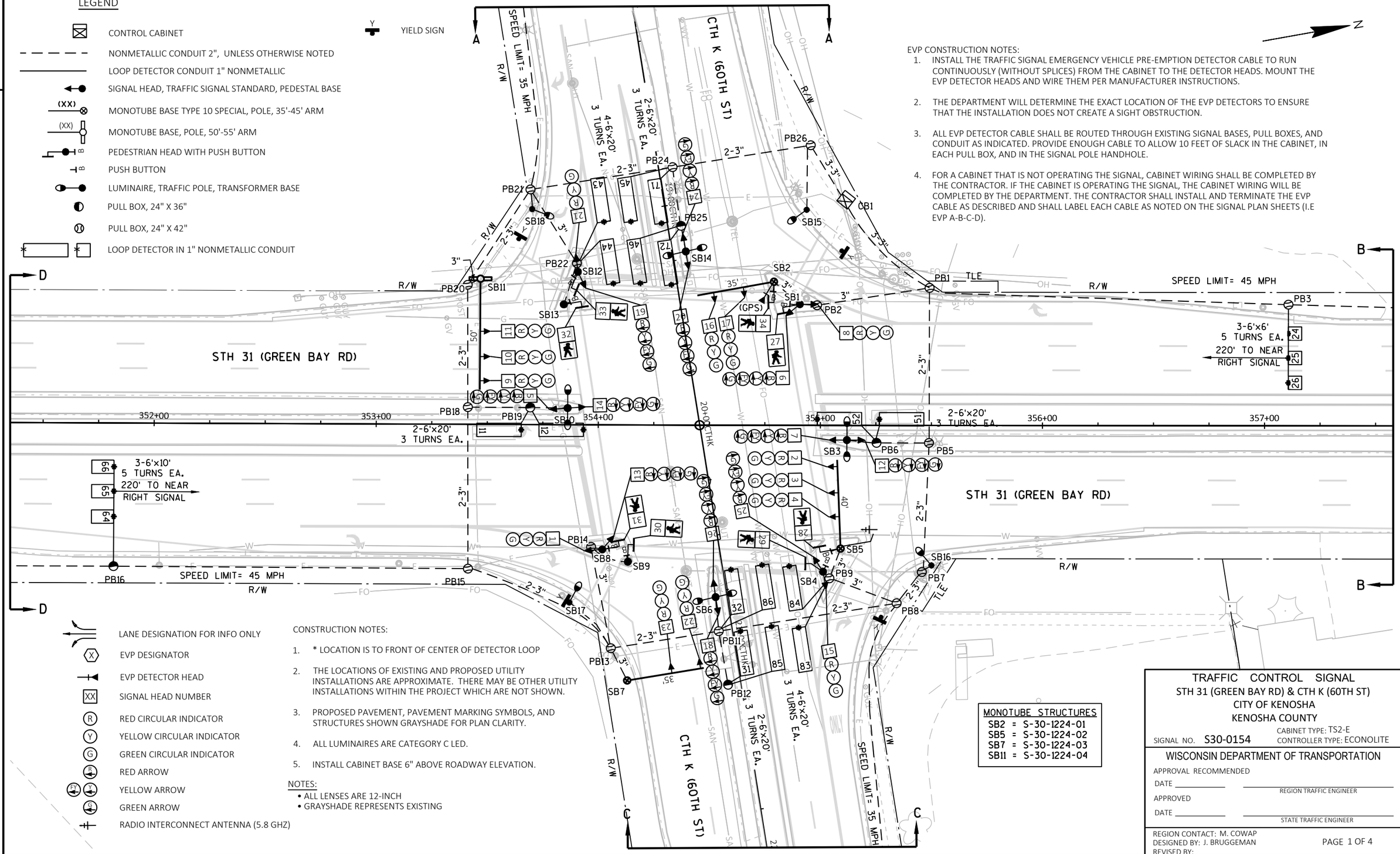
SIGNAL NO: S30-0154 CABINET TYPE: TEMP
CONTROLLER TYPE: ECONOLITE
DATE: MAY 2022 PAGE NUMBER: 6 OF 6

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE TYPE 10 SPECIAL, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- Y YIELD SIGN

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING SHALL BE COMPLETED BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE COMPLETED BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE SIGNAL PLAN SHEETS (I.E EVP A-B-C-D).



LANE DESIGNATION FOR INFO ONLY
X EVP DESIGNATOR
EVP DETECTOR HEAD
XX SIGNAL HEAD NUMBER
R RED CIRCULAR INDICATOR
Y YELLOW CIRCULAR INDICATOR
G GREEN CIRCULAR INDICATOR
R RED ARROW
EY YELLOW ARROW
G GREEN ARROW
RADIO INTERCONNECT ANTENNA (5.8 GHZ)

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT OF CENTER OF DETECTOR LOOP
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. PROPOSED PAVEMENT, PAVEMENT MARKING SYMBOLS, AND STRUCTURES SHOWN GRAYSHADE FOR PLAN CLARITY.
4. ALL LUMINAIRES ARE CATEGORY C LED.
5. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURES
SB2 = S-30-1224-01
SB5 = S-30-1224-02
SB7 = S-30-1224-03
SB11 = S-30-1224-04

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY
SIGNAL NO. S30-0154
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

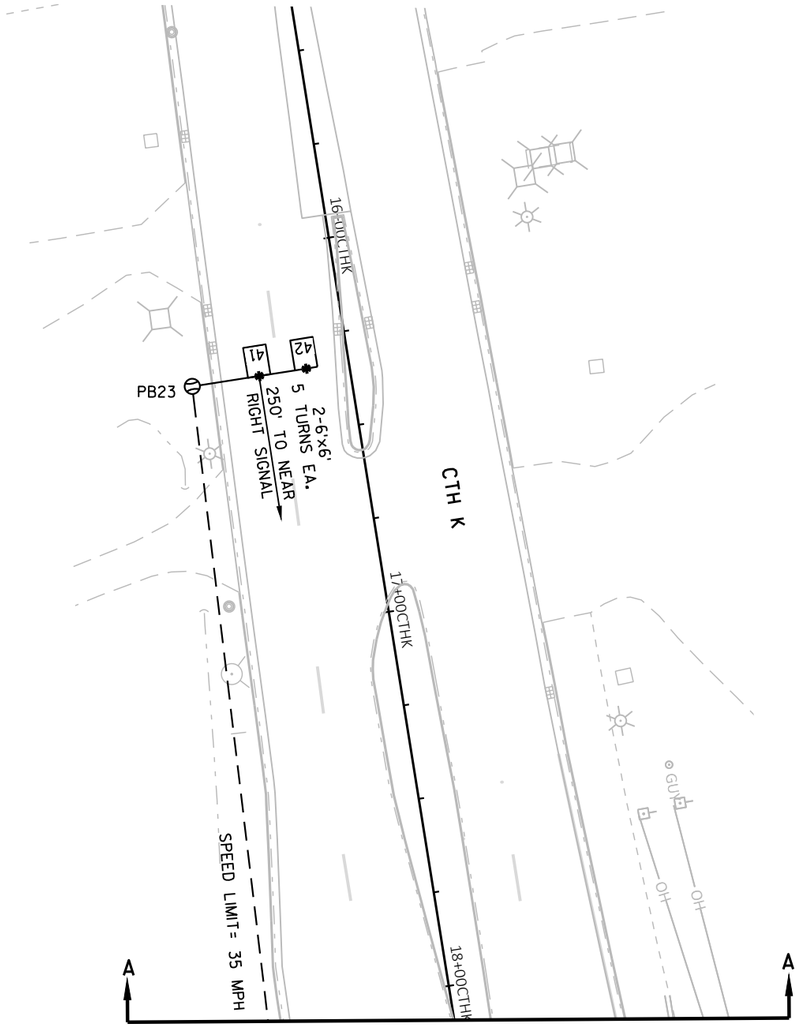
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE _____ REGION TRAFFIC ENGINEER
APPROVED
DATE _____ STATE TRAFFIC ENGINEER

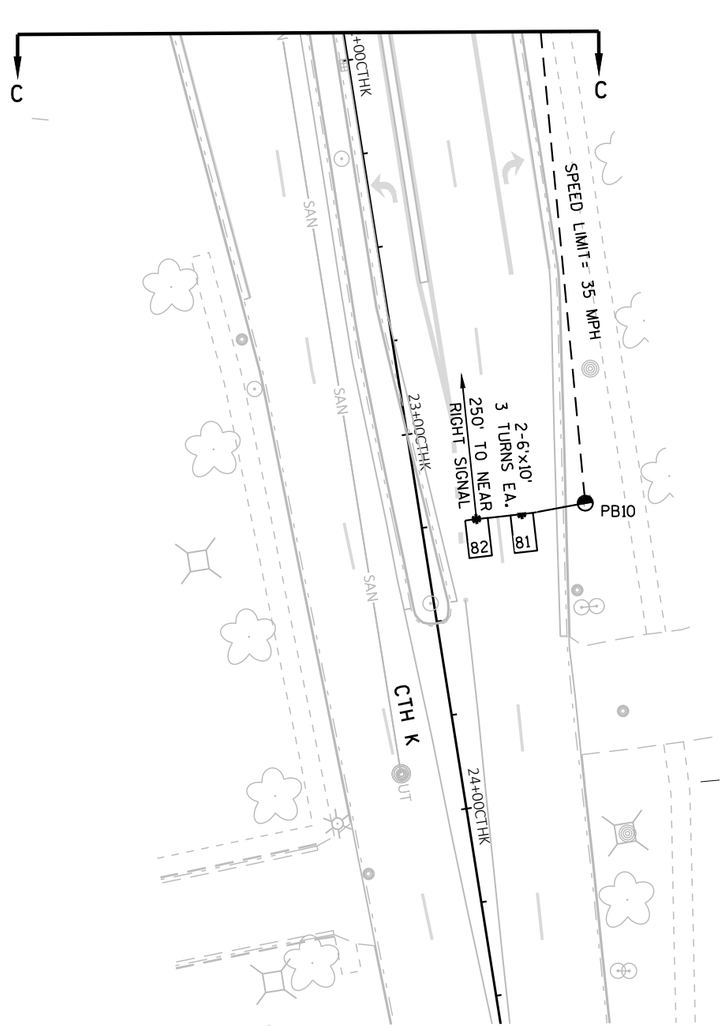
REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 64	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_18.DWG
LAYOUT NAME - 0242201-CTH_K
PLOT DATE : 4/26/2022 10:15 AM
PLOT BY : BRUGGEMAN, JOHN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2





TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 65	E

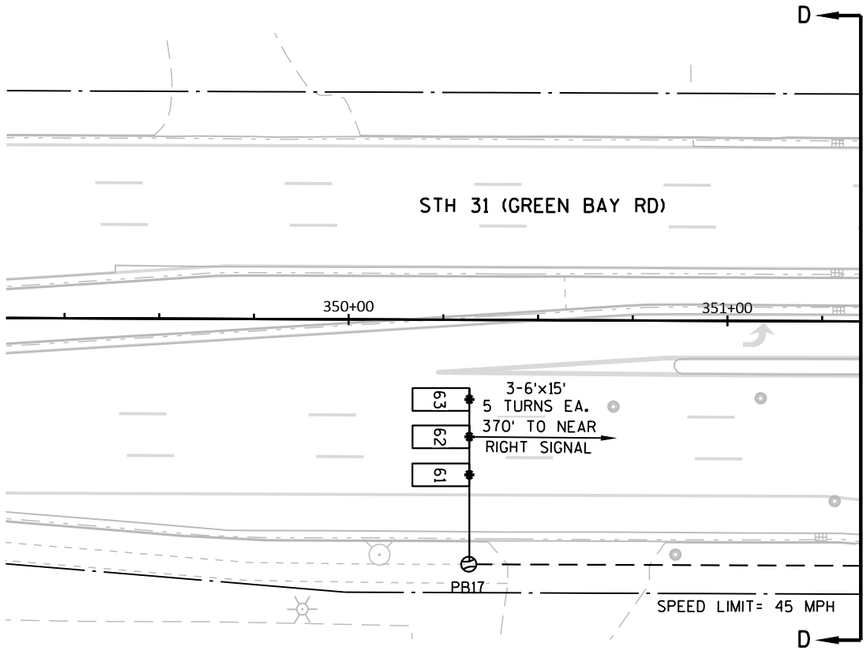
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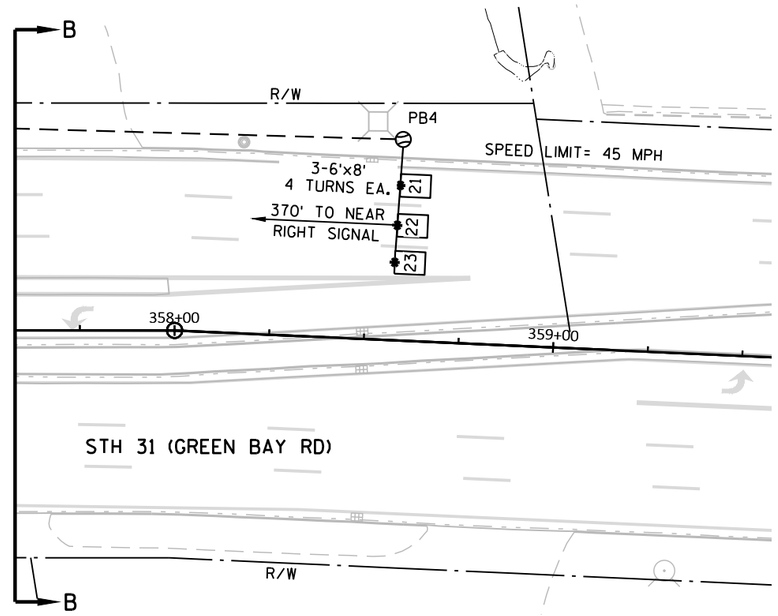
PLOT DATE : 4/26/2022 10:15 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0154

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

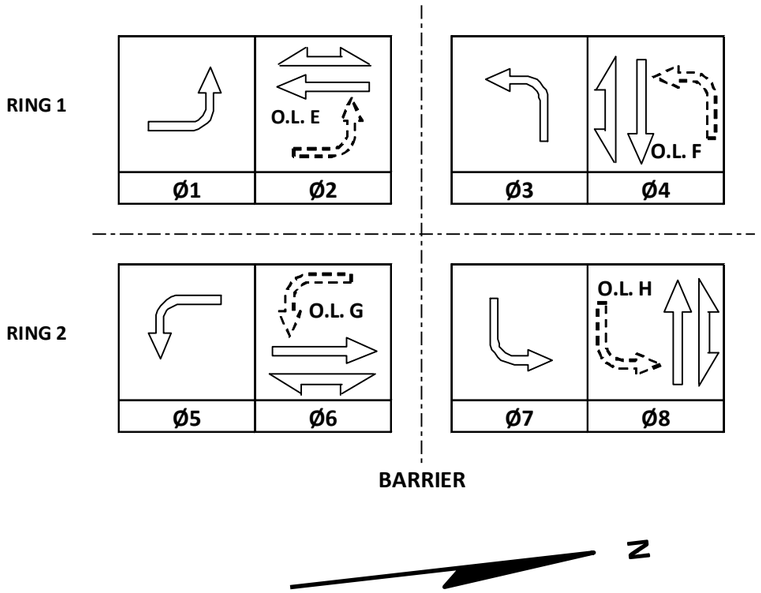
PAGE 3 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 66	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0154\S30-0154_18.DWG
LAYOUT NAME - 0242201-CTH_K _p3

PLOT DATE : 4/26/2022 10:16 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19,20	R ←
Ø4	21,22,23	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	24,25,26	R ←
Ø8	15,16,17	R
Ø2P	33,34	
Ø4P	31,32	
Ø6P	29,30	
Ø8P	27,28	
OLE	5,6,7	-
OLF	18,19,20	-
OLG	12,13,14	-
OLH	24,25,26	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 30-0001

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER (GPS)	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33	39	37	43	41	47	45	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	23	25	31	41	43	45	51	61	63	65	71	81	83	85									PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	4	4	4	5	6	6	6	7	8	8	8									CALLED PHASE
CALL OPTION	X	X	X	X	X		X	X	X	X	X	X	X		X	X									CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									EXTENTION OPTION
EXTEND TIME						X								X											EXTEND TIME
USE ADDED INITIAL		X	X	X						X	X	X													USE ADDED INITIAL
CROSS SWITCH PHASE	2				4				6				8												CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34	40	38	44	42	48	46	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	24	26	32	42	44	46	52	62	64	66	72	82	84	86									PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	4	4	4	5	6	6	6	7	8	8	8									CALLED PHASE
CALL OPTION	X	X	X	X	X		X	X	X	X	X	X	X		X	X									CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									EXTENTION OPTION
EXTEND TIME						X								X											EXTEND TIME
USE ADDED INITIAL		X	X	X						X	X	X													USE ADDED INITIAL
CROSS SWITCH PHASE	2				4				6				8												CROSS SWITCH PHASE

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO: S30-0154 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: MAY 2022 PAGE NUMBER: 4 OF 4

FILE NAME: C:\BoxDrv\Box\Signals\Databases\Signal Intersection Files\S30-0154\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 5/24/2022 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

STH 31 & CTH K

PROJECT ID:	3330-07-70
INTERSECTION:	STH 31 (GREEN BAY RD) & CTH K (60TH ST)

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	15	6				RED	ORG	GRN	BLK/WHT				
		8	RED/BLK	ORG/BLK	GRN/BLK								
		27								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB2	15	16	RED	ORG	GRN								
		17	RED	ORG	GRN								
		34								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB3	12	7				RED	ORG	GRN	BLK/WHT				
		12				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB4	15	15	RED/BLK	ORG/BLK	GRN/BLK								
		25				RED	ORG	GRN	BLK/WHT				
		29								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB5	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		28								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB6	12	18				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		26				RED	ORG	GRN	BLK/WHT				
SB7	7	22	RED	ORG	GRN								
		23	RED	ORG	GRN								
SB8	15	1	RED	ORG	GRN								
		13				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		31								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB9	7	30								BLK	BLU		
		B										RED	WHT/BLK
SB10	12	5				RED	ORG	GRN	BLK/WHT				
		14				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB11	7	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		11	RED	ORG	GRN								
SB12	15	19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		21	RED	ORG	GRN								
		33								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB13	7	32								BLK	BLU		
		B										RED	WHT/BLK
SB14	12	20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		24				RED	ORG	GRN	BLK/WHT				

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB5	SB3
PB7	SB5
PB8	SB5
PB11	SB6
PB13	SB7
PB15	SB7
PB18	SB10
PB20	SB11
PB21	SB11
PB24	SB14
PB26	CB1

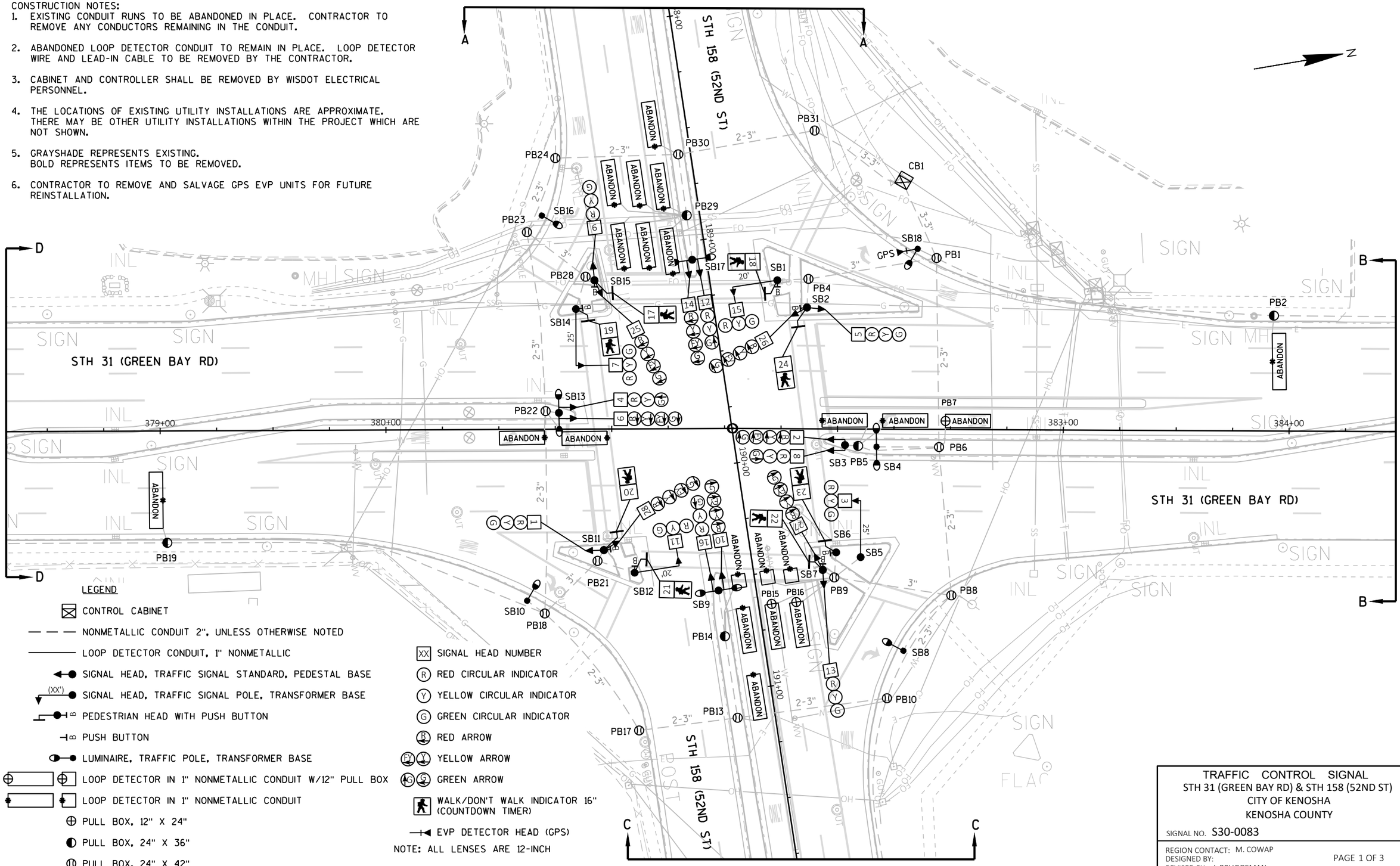
Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB3
SB3	SN16
SB16	SB6
SB6	SB17
CB1	SB15
SB15	SB14
SB14	SB18
SB11	SB19
SB19	SB10

Radio Antenna Cable	
From	To
CB1	SB5

***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.**
***Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
6. CONTRACTOR TO REMOVE AND SALVAGE GPS EVP UNITS FOR FUTURE REINSTALLATION.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX') SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT W/12" PULL BOX
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- EY Y YELLOW ARROW
- EG G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DETECTOR HEAD (GPS)

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 1 OF 3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 70	E

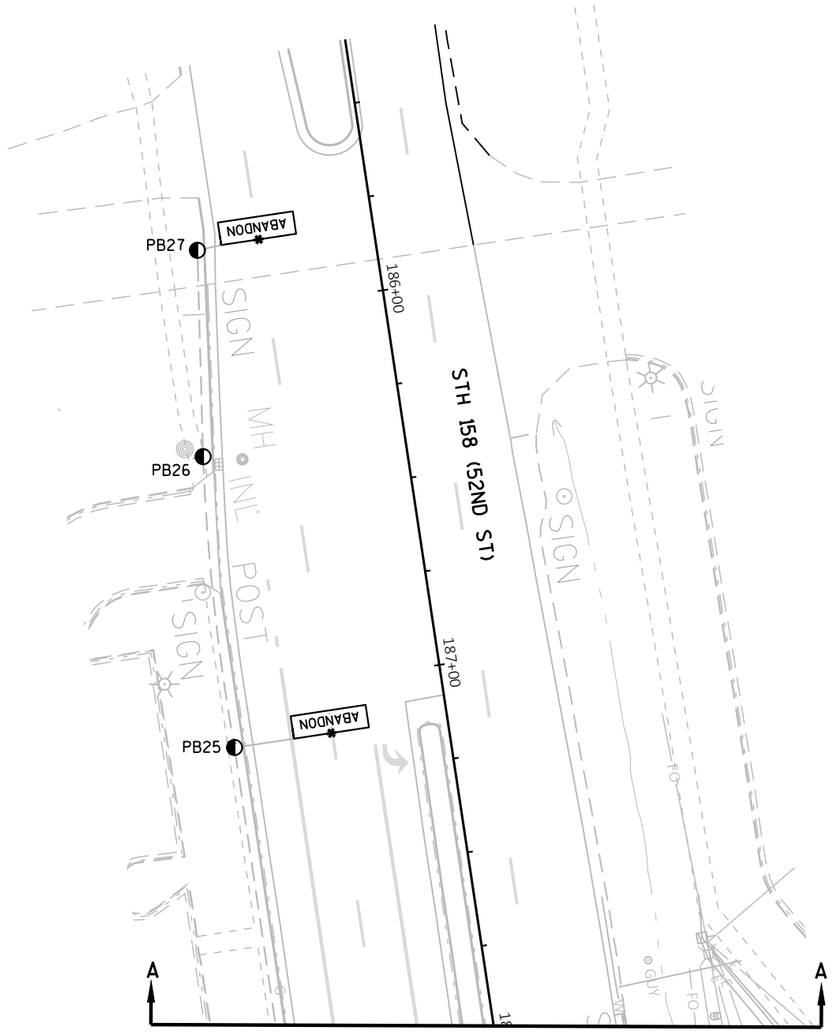
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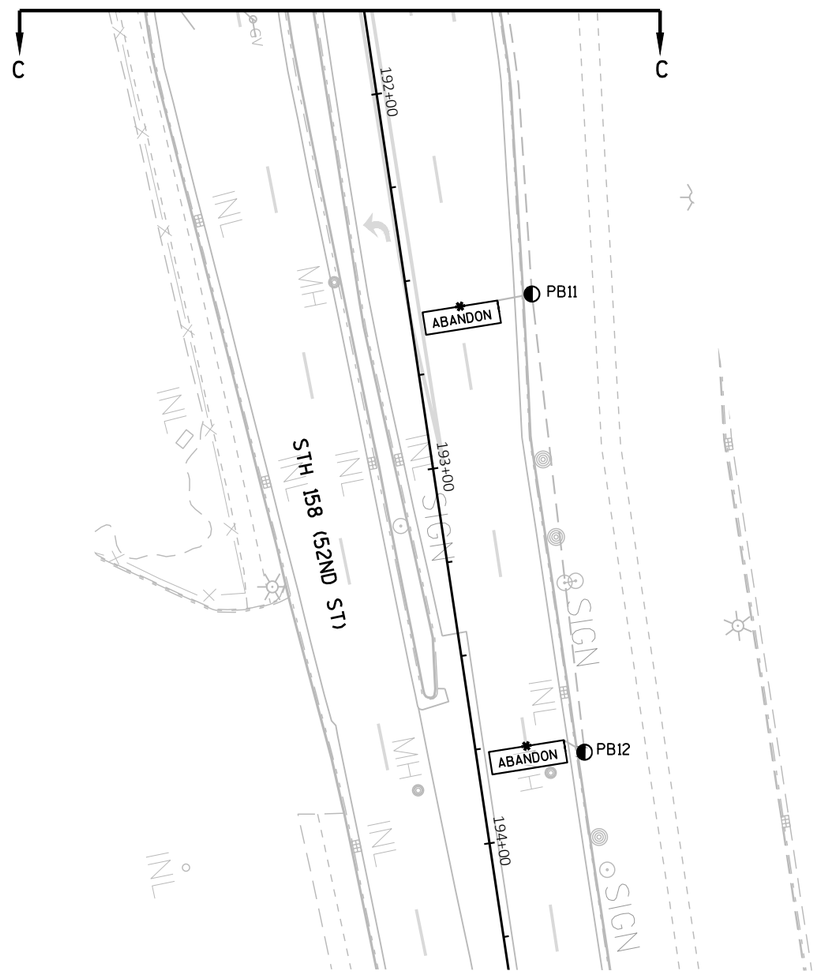
PLOT DATE : 4/28/2022 7:38 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

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TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 2 OF 3

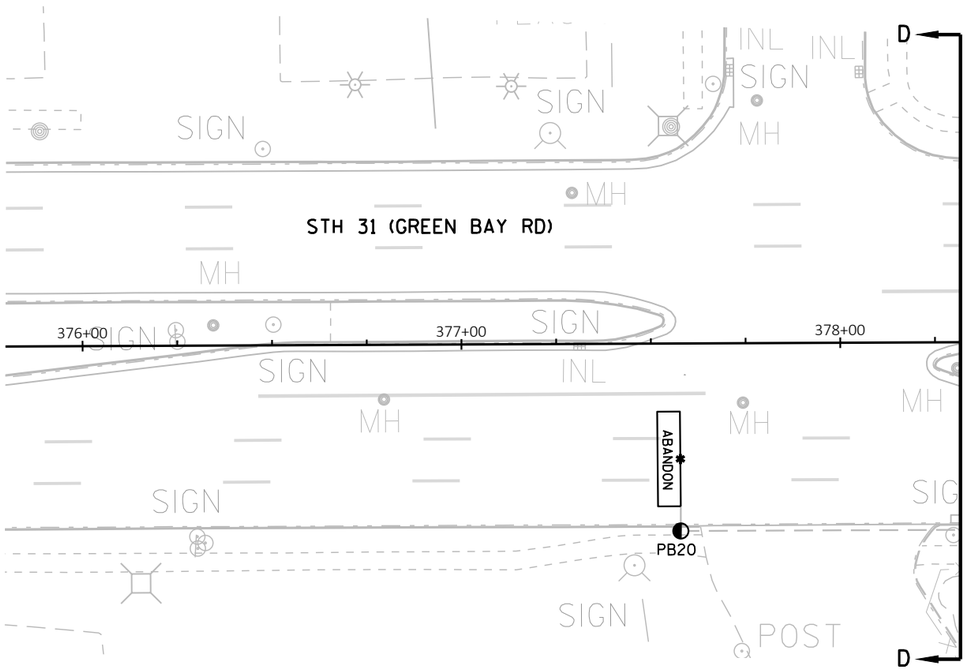
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 71	E

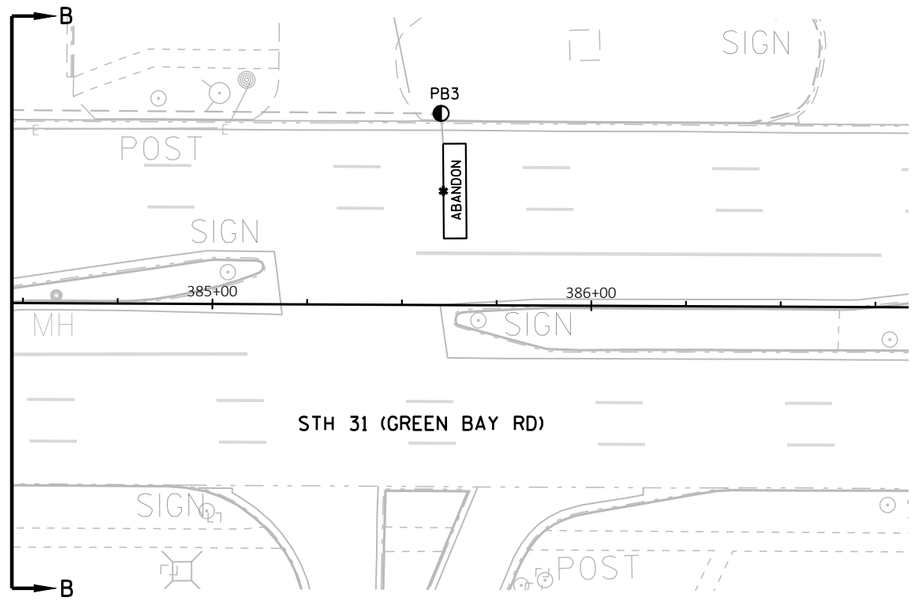
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LAYOUT NAME - S30-0083_rem_pg2

PLOT DATE : 4/28/2022 7:38 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

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TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 3 OF 3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 72	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_REM_20.DWG
LAYOUT NAME - S30-0083_rem_pg3

PLOT DATE : 4/28/2022 7:39 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

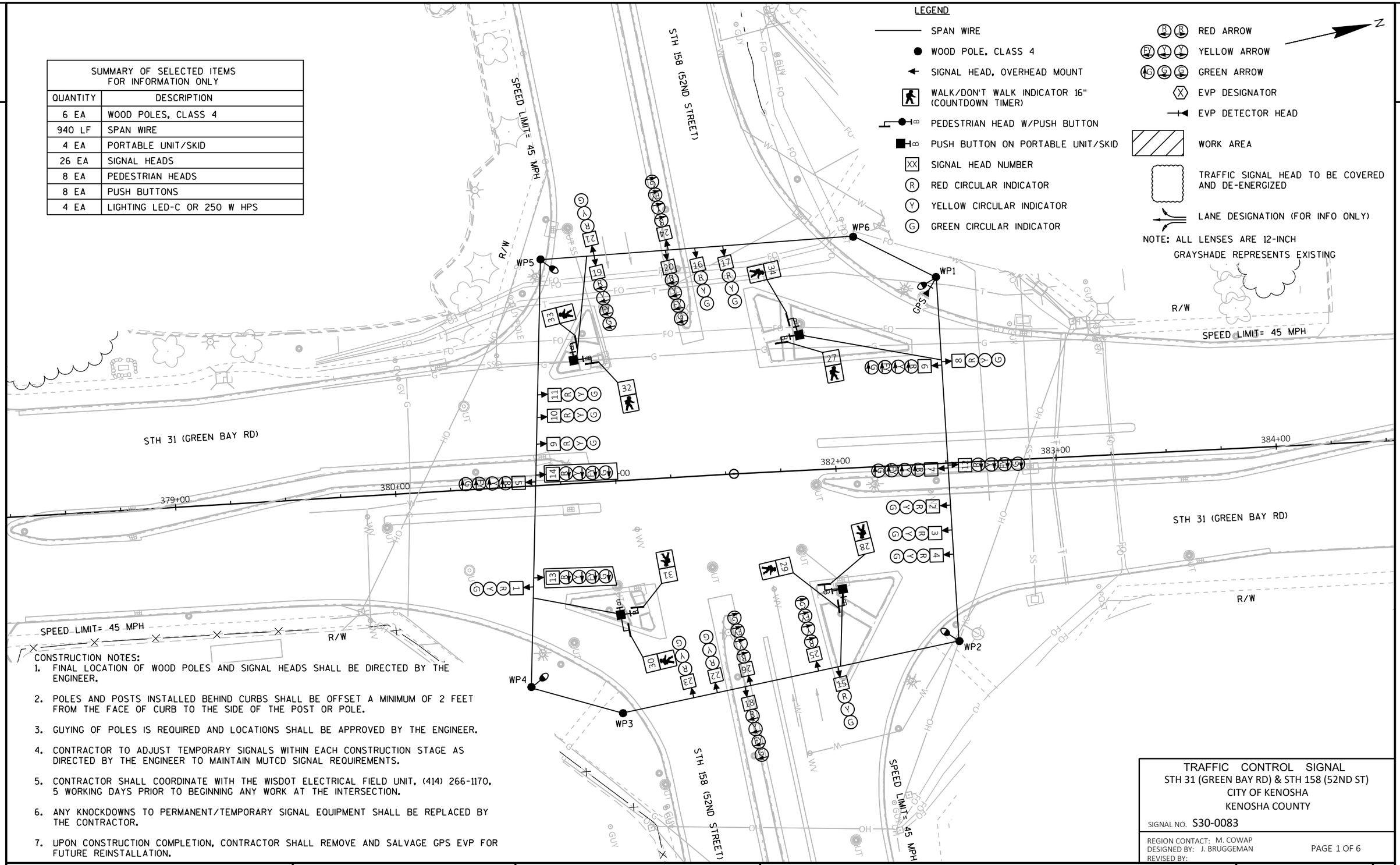
SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
940 LF	SPAN WIRE
4 EA	PORTABLE UNIT/SKID
26 EA	SIGNAL HEADS
8 EA	PEDESTRIAN HEADS
8 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250 W HPS

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- LANE DESIGNATION (FOR INFO ONLY)

NOTE: ALL LENSES ARE 12-INCH

GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. UPON CONSTRUCTION COMPLETION, CONTRACTOR SHALL REMOVE AND SALVAGE GPS EVP FOR FUTURE REINSTALLATION.

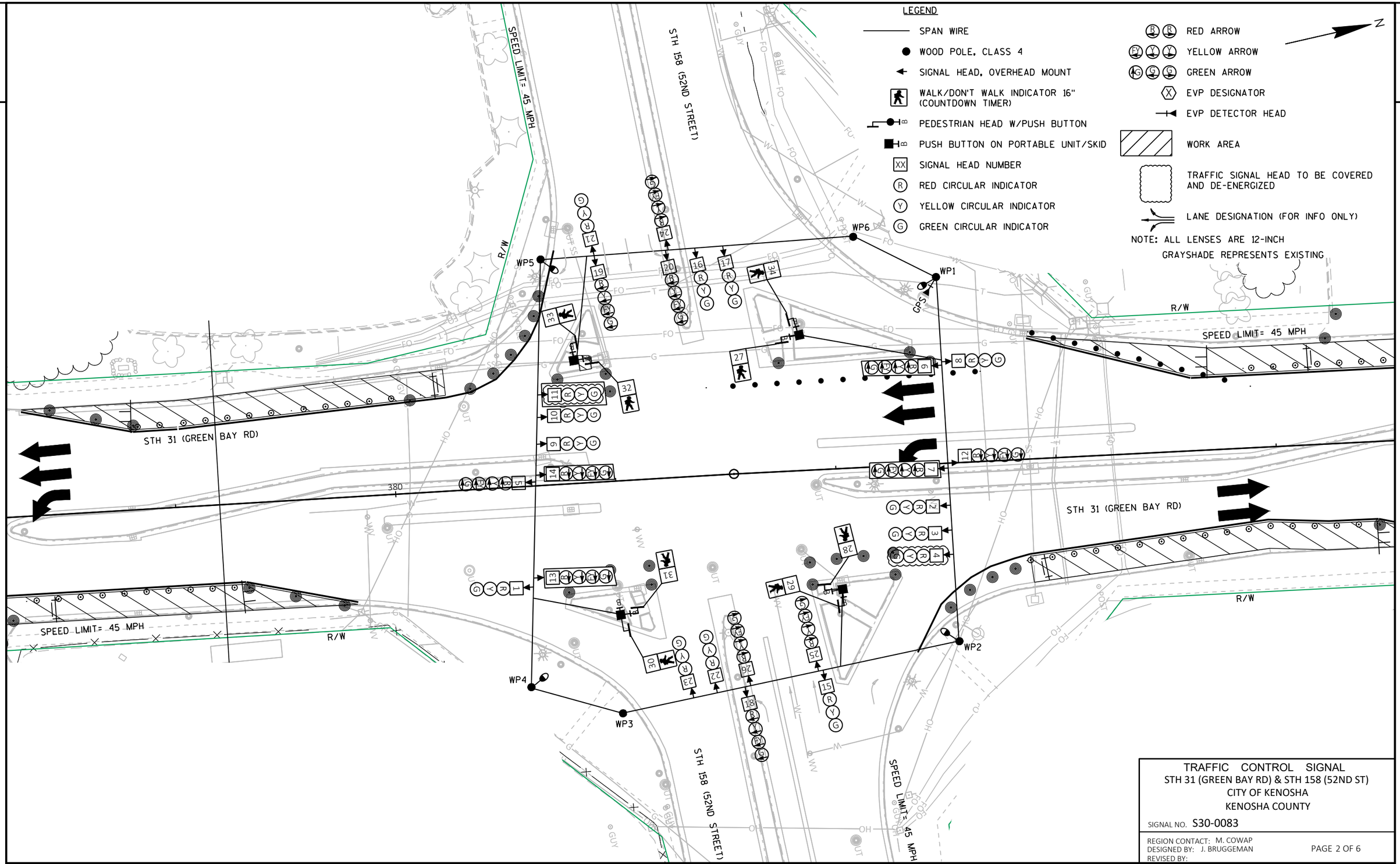
TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 1 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 73	E



TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

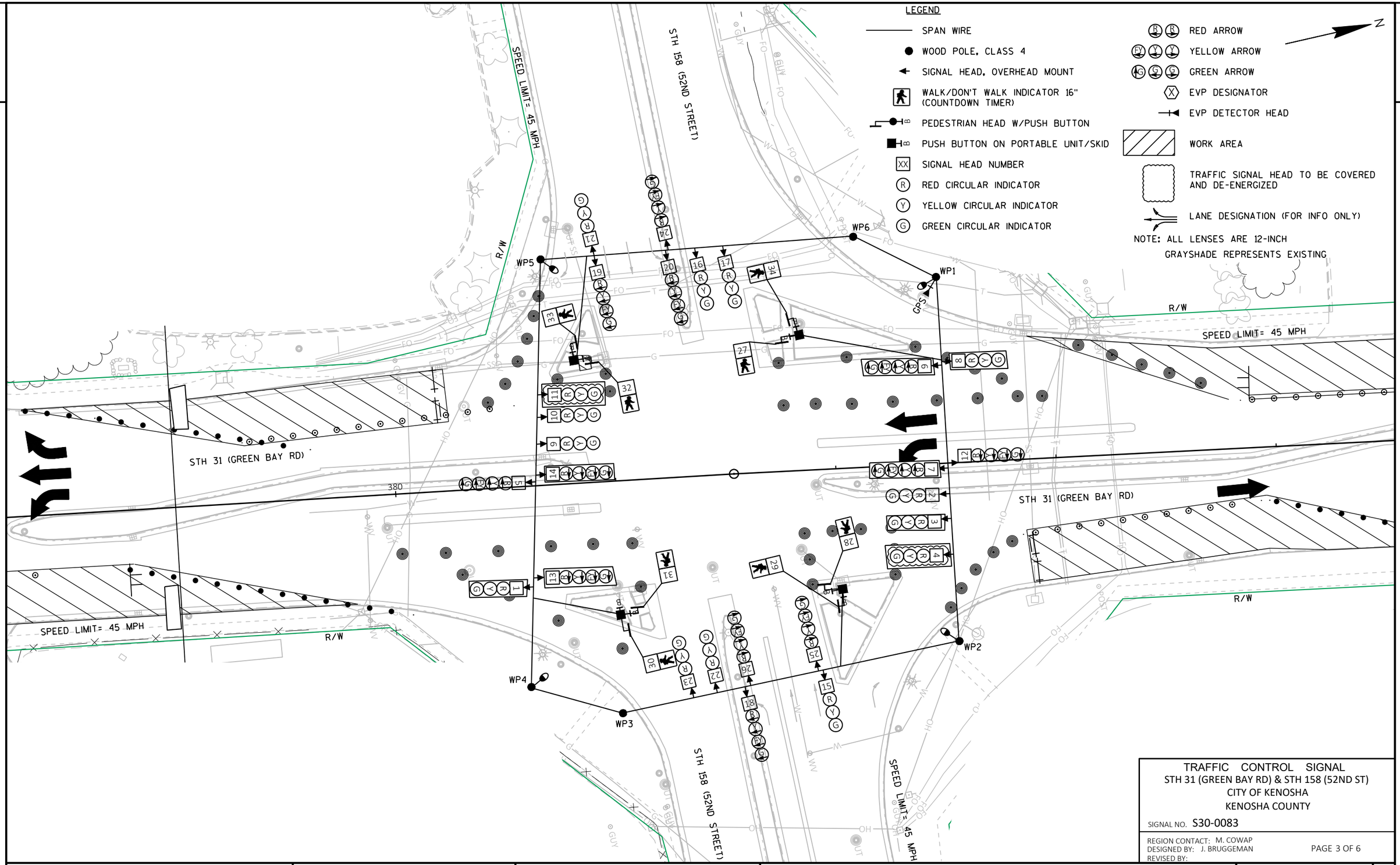
PAGE 2 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 74	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_TS_S1_18.DWG
LAYOUT NAME - TS_S1

PLOT DATE : 4/26/2022 8:39 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 3 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 75	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_TS_S1A_18.DWG
LAYOUT NAME - TS_S1A

PLOT DATE : 4/26/2022 8:40 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- LANE DESIGNATION (FOR INFO ONLY)

NOTE: ALL LENSES ARE 12-INCH

GRAYSHADE REPRESENTS EXISTING

N

STH 31 (GREEN BAY RD)

STH 158 (52ND STREET)

SPEED LIMIT= 45 MPH

R/W

WP1 WP2 WP3 WP4 WP5 WP6

GPS

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

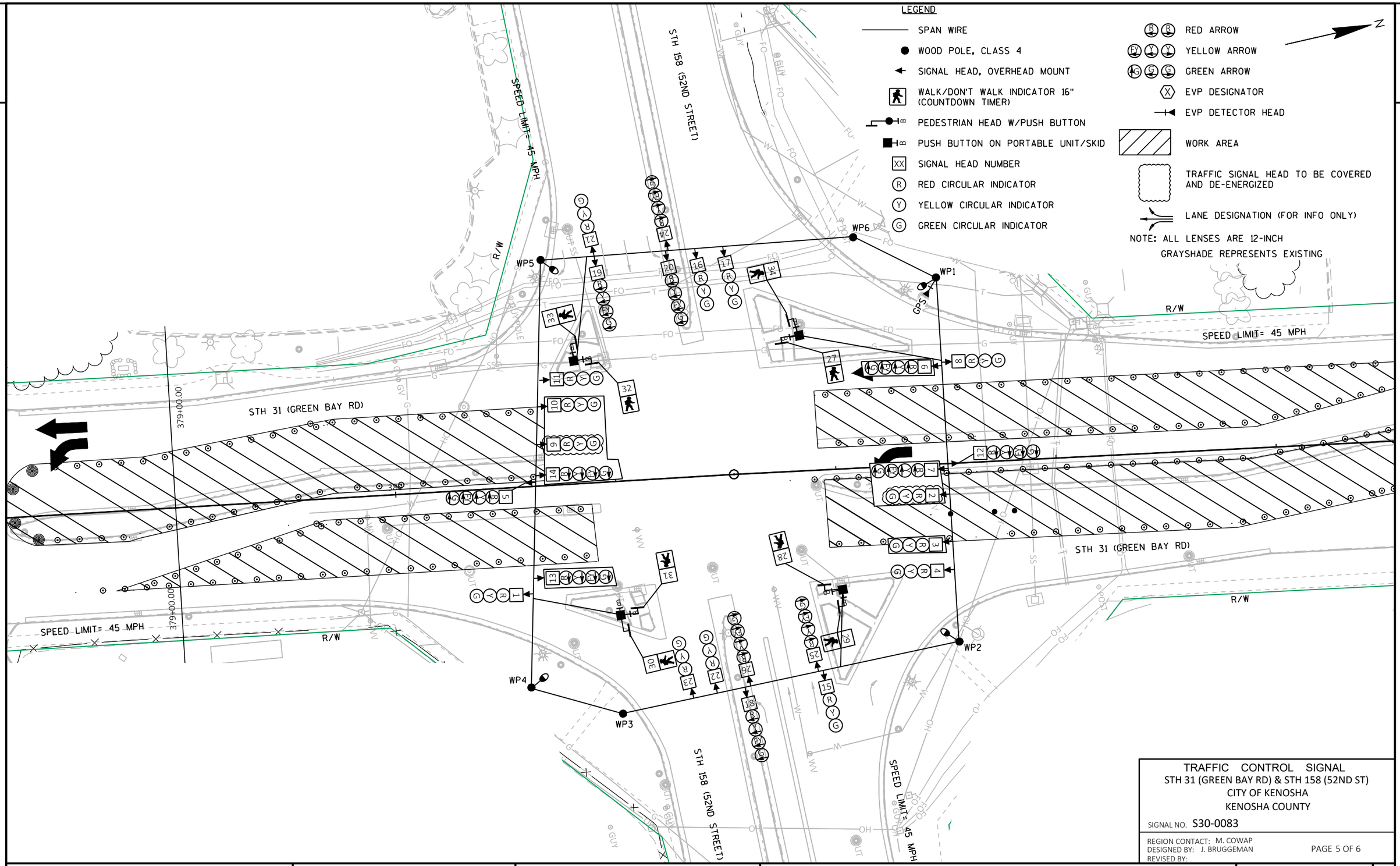
REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 4 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 76	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_TS_S2_18.DWG
LAYOUT NAME - TS_S2

PLOT DATE : 4/26/2022 8:41 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT



TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 5 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 77	E

FILE NAME : N:\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_TS_S2A_18.DWG
LAYOUT NAME - TS_S2A

PLOT DATE : 4/26/2022 8:42 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

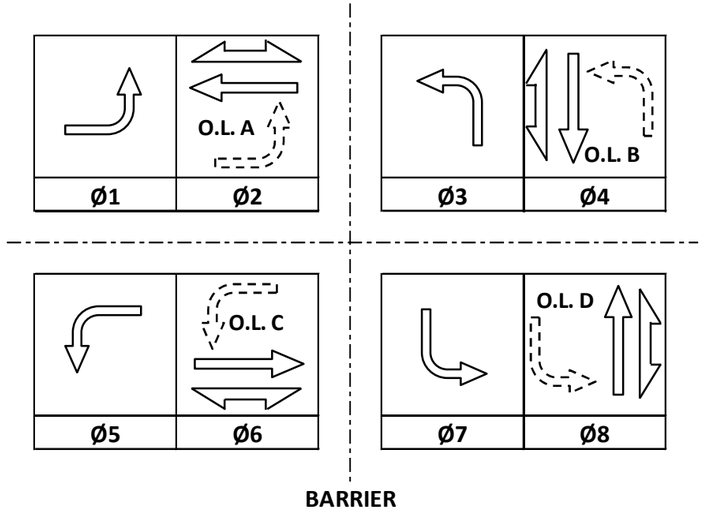
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R
Ø2	8,9,10,11	R
Ø3	18,19,20	R
Ø4	21,22,23	R
Ø5	12,13,14	-
Ø6	1,2,3,4	R
Ø7	24,25,26	-
Ø8	15,16,17	R
Ø2P	33,34	
Ø4P	27,28	
Ø6P	29,30	
Ø8P	31,32	
OLA	5,9,7	R
OLB	18,19,20	R
OLC	12,13,14	R
OLD	24,25,26	R

RING 1

RING 2



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

N

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO:	S30-0083	CABINET TYPE:	TEMP
		CONTROLLER TYPE:	ECONOLITE
DATE:	MAY 2022	PAGE NUMBER:	6 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	SEQUENCE OF OPERATIONS	SHEET NO:	E

FILE NAME: C:\Users\DOTMXC\Desktop\Seq_Sheet\TS1.xlsx PLOT DATE: 4/5/2022 PLOT NAME: TS1.xlsx PLOT BY: _____ PLOT SCALE: 1:1

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE TYPE 10 SPECIAL, POLE, 35'-45' ARM
- PEDESTRIAN SIGNAL HEAD
- ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- Y YIELD SIGN

LANE DESIGNATION FOR INFO ONLY
EVP DESIGNATOR
EVP DETECTOR HEAD
SIGNAL HEAD NUMBER
R RED CIRCULAR INDICATOR
Y YELLOW CIRCULAR INDICATOR
G GREEN CIRCULAR INDICATOR
RED ARROW
YELLOW ARROW
GREEN ARROW

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

RADIO INTERCONNECT ANTENNA (5.8 GHZ)

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT OF CENTER OF DETECTOR LOOP
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. PROPOSED PAVEMENT, PAVEMENT MARKING SYMBOLS, AND STRUCTURES SHOWN GRAYSHADE FOR PLAN CLARITY.
4. ALL LUMINAIRES ARE CATEGORY C LED.
5. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING SHALL BE COMPLETED BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE COMPLETED BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE SIGNAL PLAN SHEETS (I.E EVP A-B-C-D).

MONOTUBE STRUCTURES
SB2 = S-30-1223-01
SB5 = S-30-1223-02
SB7 = S-30-1223-03
SB12 = S-30-1223-04

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY
SIGNAL NO. S30-0083
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE _____ REGION TRAFFIC ENGINEER
APPROVED
DATE _____ STATE TRAFFIC ENGINEER

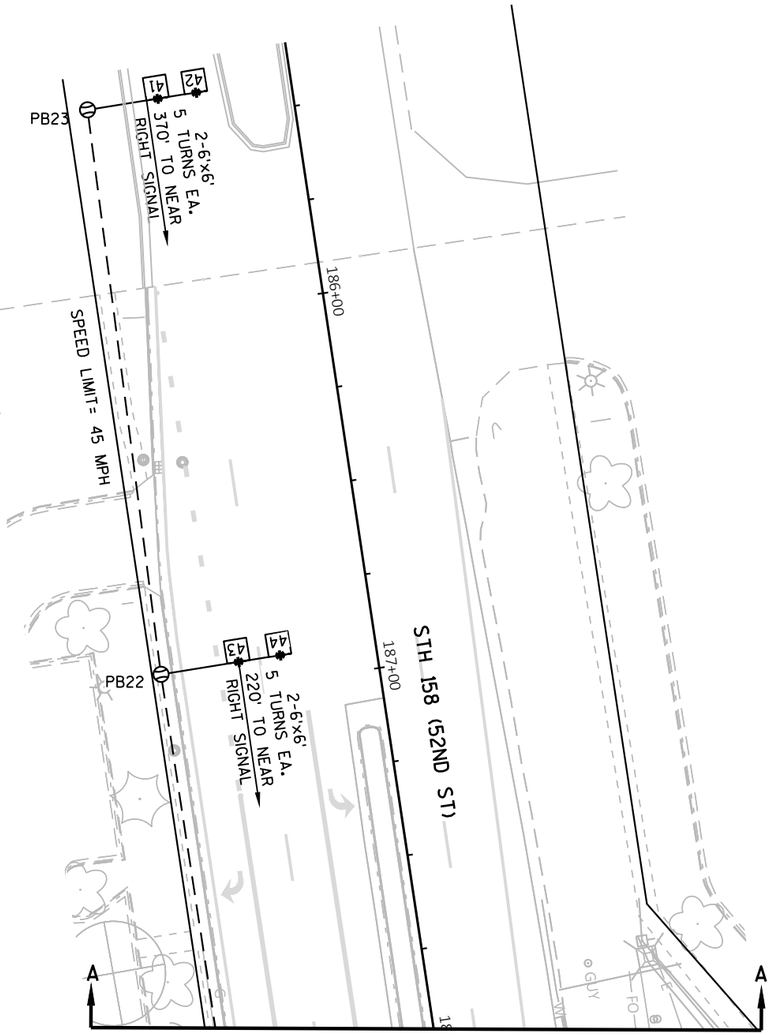
REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

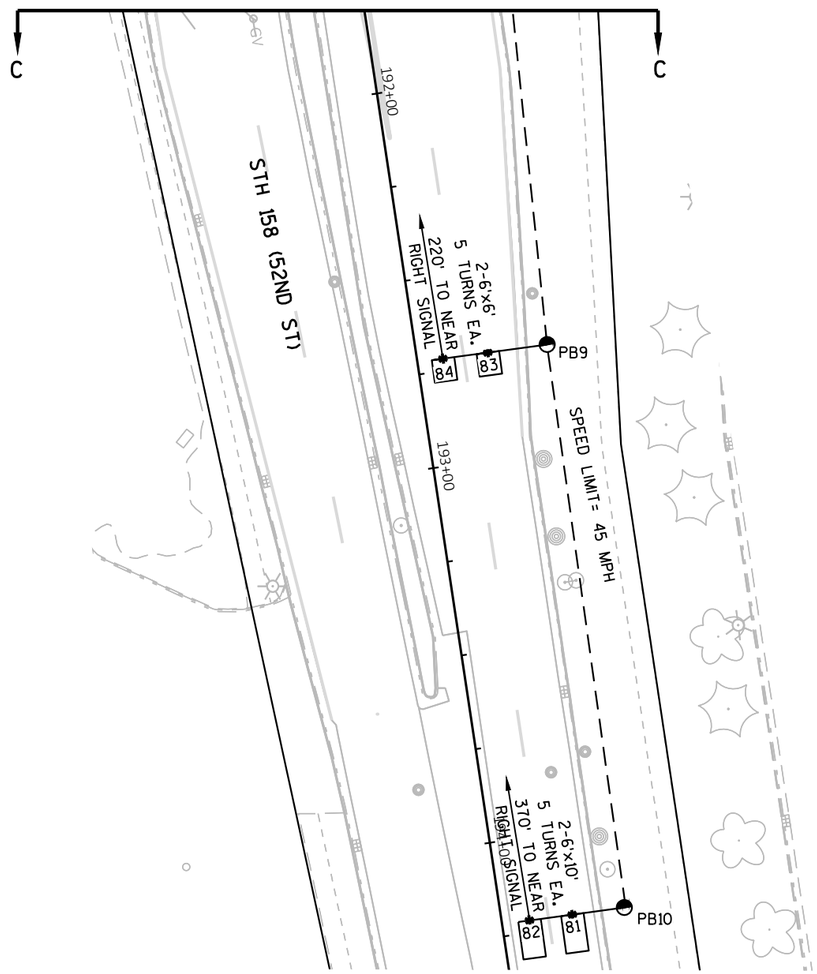
PAGE 1 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 79	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_18.DWG
LAYOUT NAME - 0242201-STH_158
PLOT DATE : 4/28/2022 3:20 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2





N

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

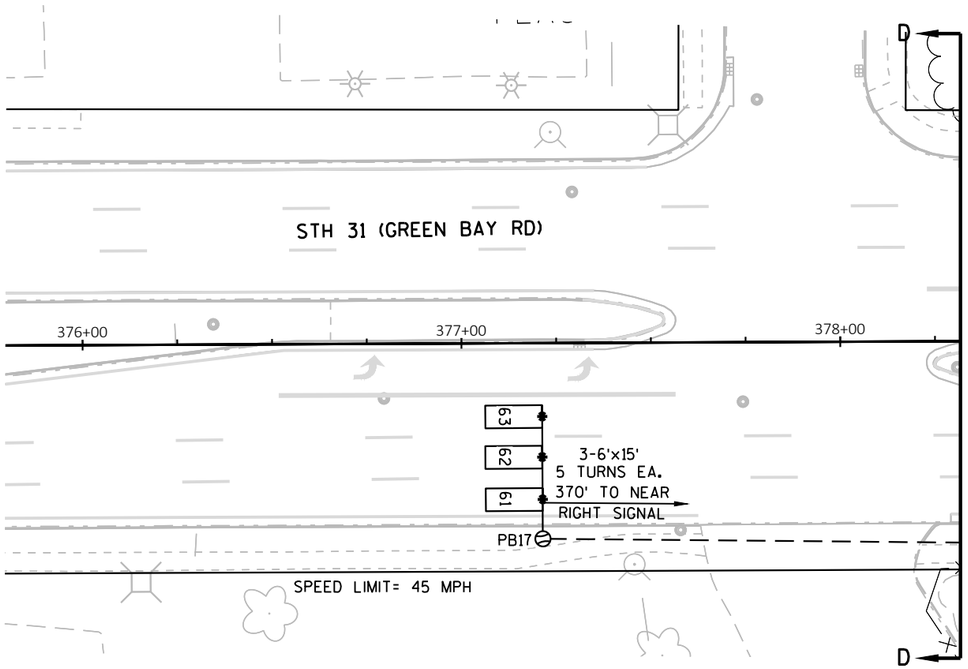
REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

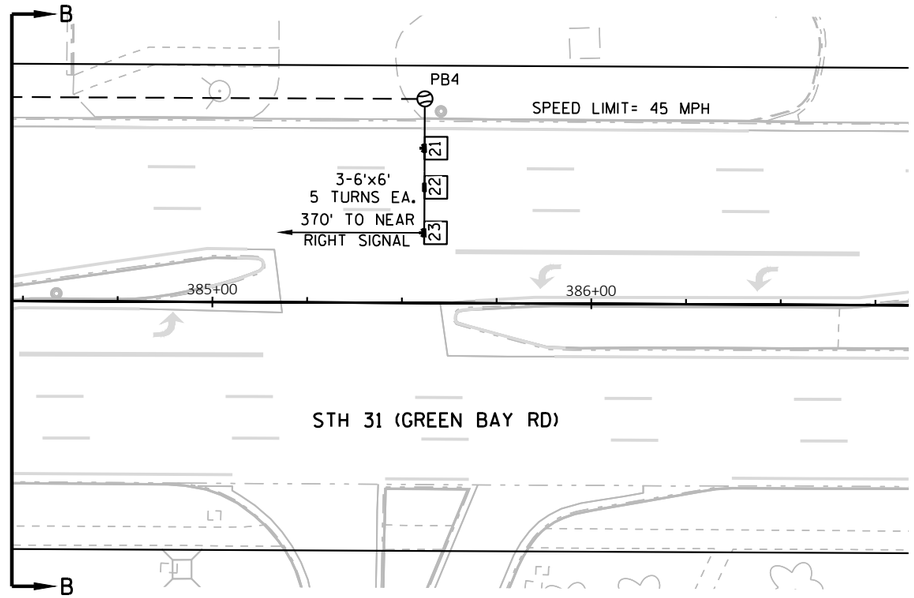
PAGE 2 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 80	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_18.DWG
LAYOUT NAME - 0242201-STH_158_p2
PLOT DATE : 4/28/2022 3:23 PM
PLOT BY : BRUGGEMAN, JOHN
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0083

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

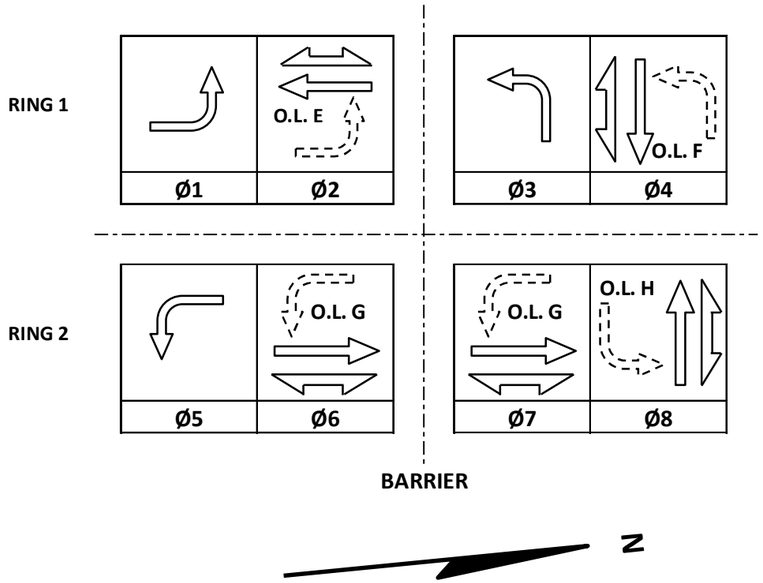
PAGE 3 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 81	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0083\S30-0083_18.DWG
LAYOUT NAME - 0242201-STH_158_p3

PLOT DATE : 4/28/2022 3:25 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19,20	R ←
Ø4	21,22,23	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	24,25,26	R ←
Ø8	15,16,17	R
Ø2P	33,34	
Ø4P	31,32	
Ø6P	29,30	
Ø8P	27,28	
OLE	5,6,7	-
OLF	18,19,20	-
OLG	12,13,14	-
OLH	24,25,26	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 30-0001

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER (GPS)	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33					49	51	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	23	25	31	41	43	45	47	51	61	63	65	71	81	83	85	87					APS	APS	PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	4	4	4	4	5	6	6	6	7	8	8	8	8					2	6	CALLED PHASE
CALL OPTION	X	X	X	X	X			X	X	X	X	X	X	X			X	X					X	X	CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	EXTENTION OPTION
EXTEND TIME						X	X								X	X									EXTEND TIME
USE ADDED INITIAL		X	X	X							X	X	X												USE ADDED INITIAL
CROSS SWITCH PHASE	2				4					6				8											CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34					50	52	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	24	26	32	42	44	46	48	52	62	64	66	72	82	84	86	88					APS	APS	PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	4	4	4	4	5	6	6	6	7	8	8	8	8					4	8	CALLED PHASE
CALL OPTION	X	X	X	X	X			X	X	X	X	X	X	X			X	X					X	X	CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	EXTENTION OPTION
EXTEND TIME						X	X								X	X									EXTEND TIME
USE ADDED INITIAL		X	X	X							X	X	X												USE ADDED INITIAL
CROSS SWITCH PHASE	2				4					6				8											CROSS SWITCH PHASE

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO: S30-0083 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: MAY 2022 PAGE NUMBER: 4 OF 4

FILE NAME: C:\BoxDrv\Box\DTSD\DTSD-SER\OPS\Traffic\Signals\Databases\Signal Intersection Files\S30-0083\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 4/12/2022 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

STH 31 & STH 158

2

PROJECT ID:	3330-07-70
INTERSECTION:	STH 31 (GREEN BAY RD) & STH 158 (52ND ST)

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	15	6				RED	ORG	GRN	BLK/WHT				
		8	RED/BLK	ORG/BLK	GRN/BLK								
		27								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB2	15	16	RED	ORG	GRN								
		17	RED	ORG	GRN								
		34								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB3	12	7				RED	ORG	GRN	BLK/WHT				
		12				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB4	15	15	RED	ORG	GRN								
		25				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		29								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB5	15	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		28								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB6	12	18				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		26				RED	ORG	GRN	BLK/WHT				
SB7	7	22	RED	ORG	GRN								
		23	RED	ORG	GRN								
SB8	15	1	RED	ORG	GRN								
		13				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		31								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB9	12	30								BLK	BLU		
		B										RED	WHT/BLK
SB10	12	5				RED	ORG	GRN	BLK/WHT				
		14				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
SB11	15	19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		21	RED	ORG	GRN								
		33								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB12	15	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		11	RED	ORG	GRN								
		32								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB13	12	20				RED/BLK	ORG/BLK	GRN/BLK	BLU/BLK				
		24				RED	ORG	GRN	BLK/WHT				

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB5	SB3
PB6	SB5
PB7	SB5
PB11	SB7
PB13	SB7
PB14	SB7
PB18	SB10
PB19	SB12
PB21	SB11
PB24	SB13
PB26	CB1

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB14
SB14	SB3
SB3	SB15
SB15	SB6
CB1	SB13
SB13	SB17
SB17	SB10
SB10	SB16

Radio Antenna Cable	
From	To
CB1	SB5
CB1	SB5

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

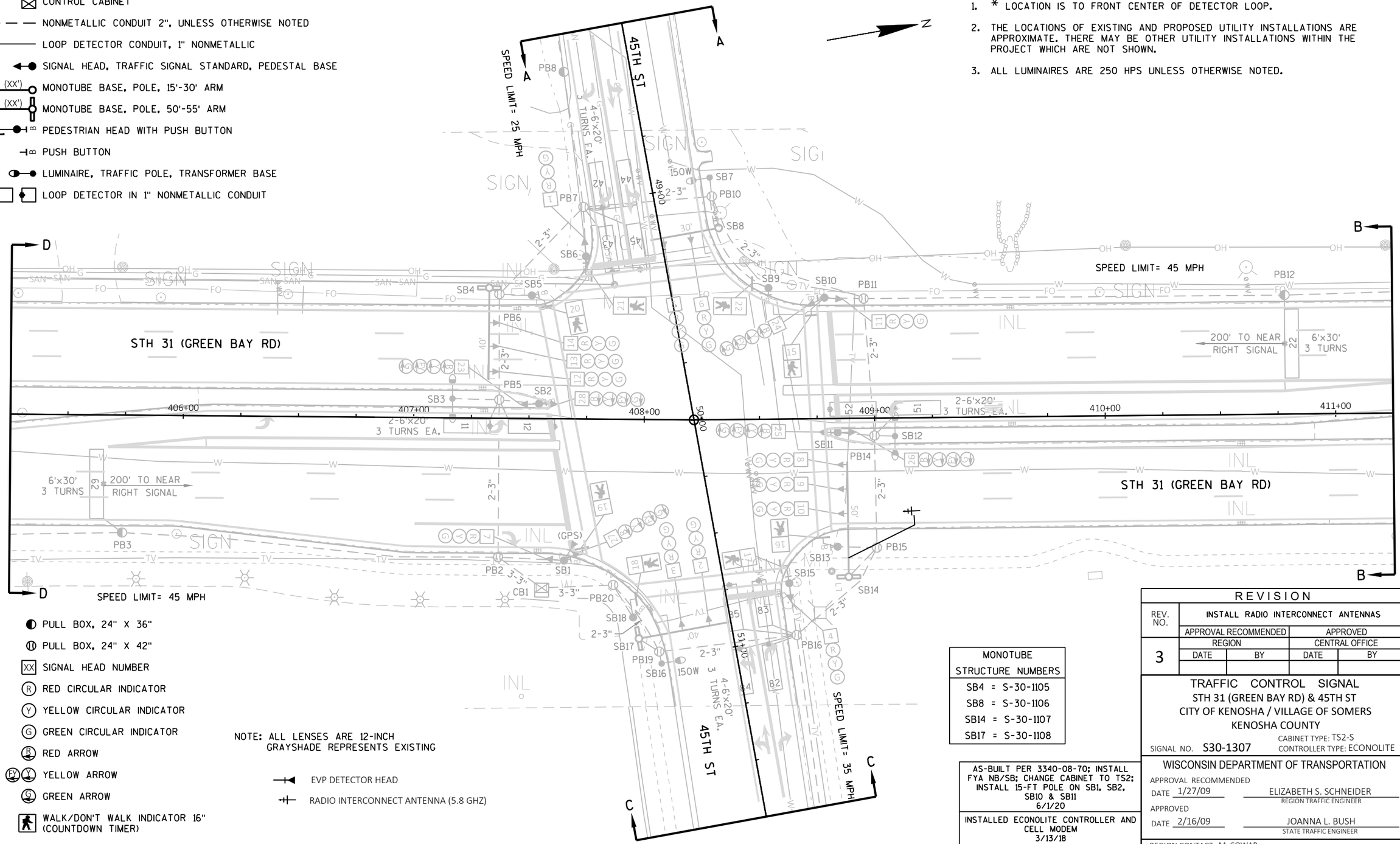
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX') MONOTUBE BASE, POLE, 15'-30' ARM
- (XX') MONOTUBE BASE, POLE, 50'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE 250 HPS UNLESS OTHERWISE NOTED.



- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY)(Y) YELLOW ARROW
- (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

- EVP DETECTOR HEAD
- RADIO INTERCONNECT ANTENNA (5.8 GHZ)

MONOTUBE STRUCTURE NUMBERS
SB4 = S-30-1105
SB8 = S-30-1106
SB14 = S-30-1107
SB17 = S-30-1108

AS-BUILT PER 3340-08-70; INSTALL FYA NB/SB; CHANGE CABINET TO TS2; INSTALL 15-FT POLE ON SB1, SB2, SB10 & SB11
6/1/20

INSTALLED ECONOLITE CONTROLLER AND CELL MODEM
3/13/18

INITIAL INSTALL
2009

REVISION

REV. NO.	INSTALL RADIO INTERCONNECT ANTENNAS			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
3	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & 45TH ST
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-1307
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 1/27/09 ELIZABETH S. SCHNEIDER
REGION TRAFFIC ENGINEER

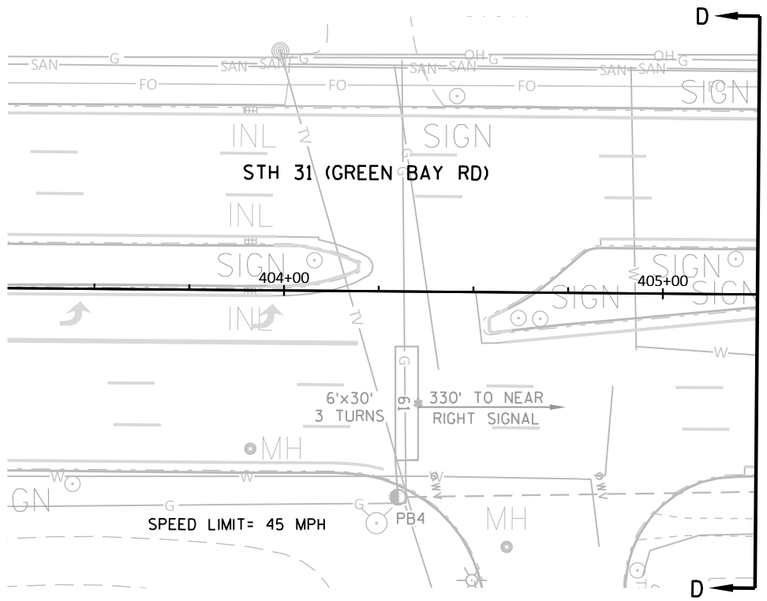
APPROVED
DATE 2/16/09 JOANNA L. BUSH
STATE TRAFFIC ENGINEER

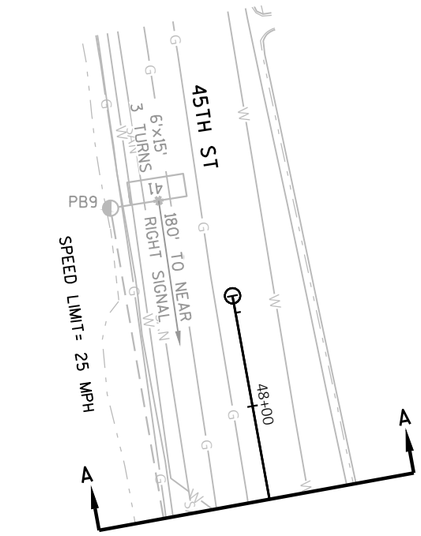
REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

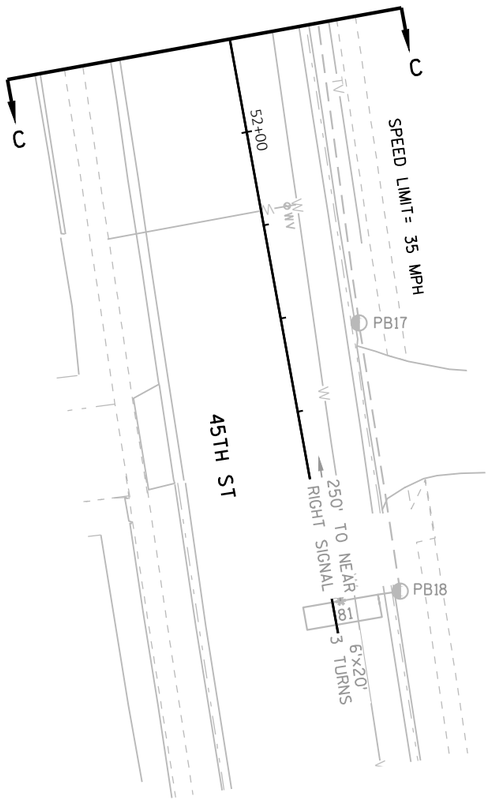
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 85	E

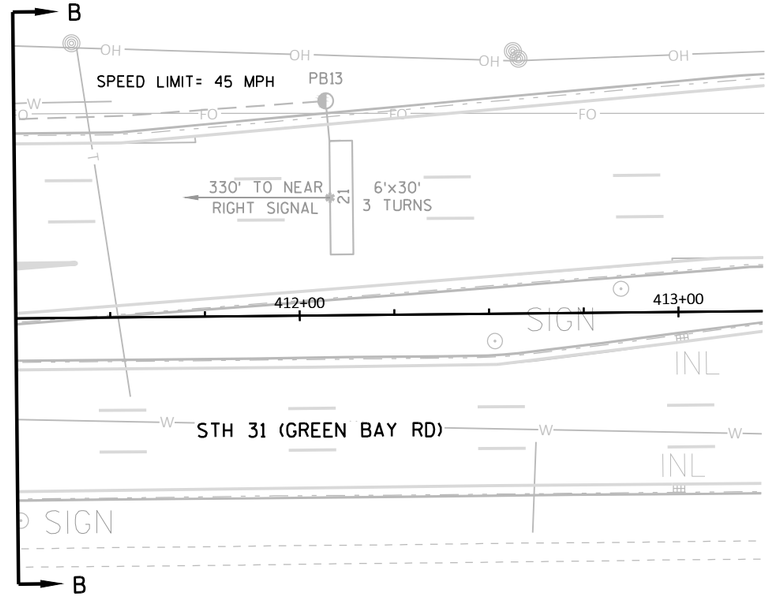
FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-1307\S30-1307_R3_20.DWG
LAYOUT NAME - S30-1307_R3_pg1
PLOT DATE : 5/17/2022 6:53 AM
PLOT BY : BRUGGEMAN, JOHN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2









N

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & 45TH ST
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-1307

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

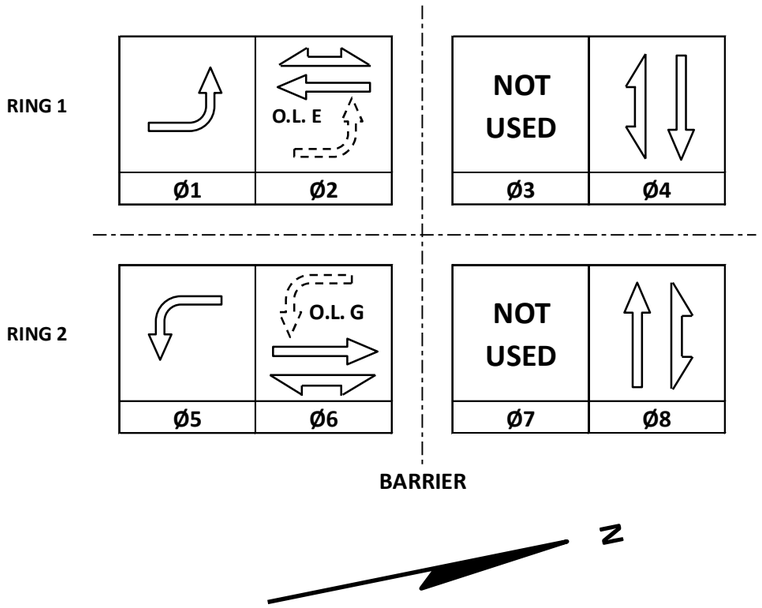
PAGE 2 OF 3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 86	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-1307\S30-1307_R3_20.DWG
LAYOUT NAME - S30-1307_R3_pg2

PLOT DATE : 5/17/2022 6:53 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	23,24,25	R ←
Ø2	11,12,13,14	R
Ø3		
Ø4	1,2,3	R
Ø5	26,27,28	R ←
Ø6	7,8,9,10	R
Ø7		
Ø8	4,5,6	R
Ø2P	21,22	
Ø4P	19,20	
Ø6P	17,18	
Ø8P	15,16	
OLE	23,24,25	-
OLF		
OLG	26,27,28	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S- 0050
SIGNAL SYSTEM NO:	SS- 20-01

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER (GPS)	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	43	45	52	62	82
CALLED PHASE	1	2	4	4	4	5	6	8
CALL OPTION	X	X		X	X	X	X	X
DELAY TIME				X	X			X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME			X					
USE ADDED INITIAL		X					X	
CROSS SWITCH PHASE	2					6		

19	17	23	21	27	25	31	29	DETECTOR INPUT
84								PLAN LOOP DETECTOR*(S)
8								CALLED PHASE
X								CALL OPTION
								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	42	44	51	61	81	83
CALLED PHASE	1	2	4	4	5	6	8	8
CALL OPTION	X	X	X	X	X	X		X
DELAY TIME			X					X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME							X	
USE ADDED INITIAL		X				X		
CROSS SWITCH PHASE	2				6			

20	18	24	22	28	26	32	30	DETECTOR INPUT
85								PLAN LOOP DETECTOR*(S)
8								CALLED PHASE
X								CALL OPTION
X								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

STH 31 (GREEN BAY RD) & 45TH ST
CITY OF KENOSHA/VILLAGE OF SOMERS
KENOSHA COUNTY
SIGNAL NO: S30-1307 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: MAY 2022 PAGE NUMBER: 3 OF 3

FILE NAME: C:\BoxDrv\Box\DTSD\DTSD-SER\OPS\Traffic\Signals\Databases\Signal Intersection Files\S30-1307\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 4/13/2022 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: _____ PLOT SCALE: 1:1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX') SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
6. CONTRACTOR TO REMOVE AND SALVAGE GPS EVP UNITS FOR FUTURE REINSTALLATION.

STH 31 (GREEN BAY RD)

CTH S

PB1 PB2 PB4 PB5 PB6 PB7 PB8 PB11 PB12 PB13 PB14 PB15 PB17 PB18 PB21 PB22 PB23

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9

CB1

GPS

ABANDON

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- YA YELLOW ARROW
- AG GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH S
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

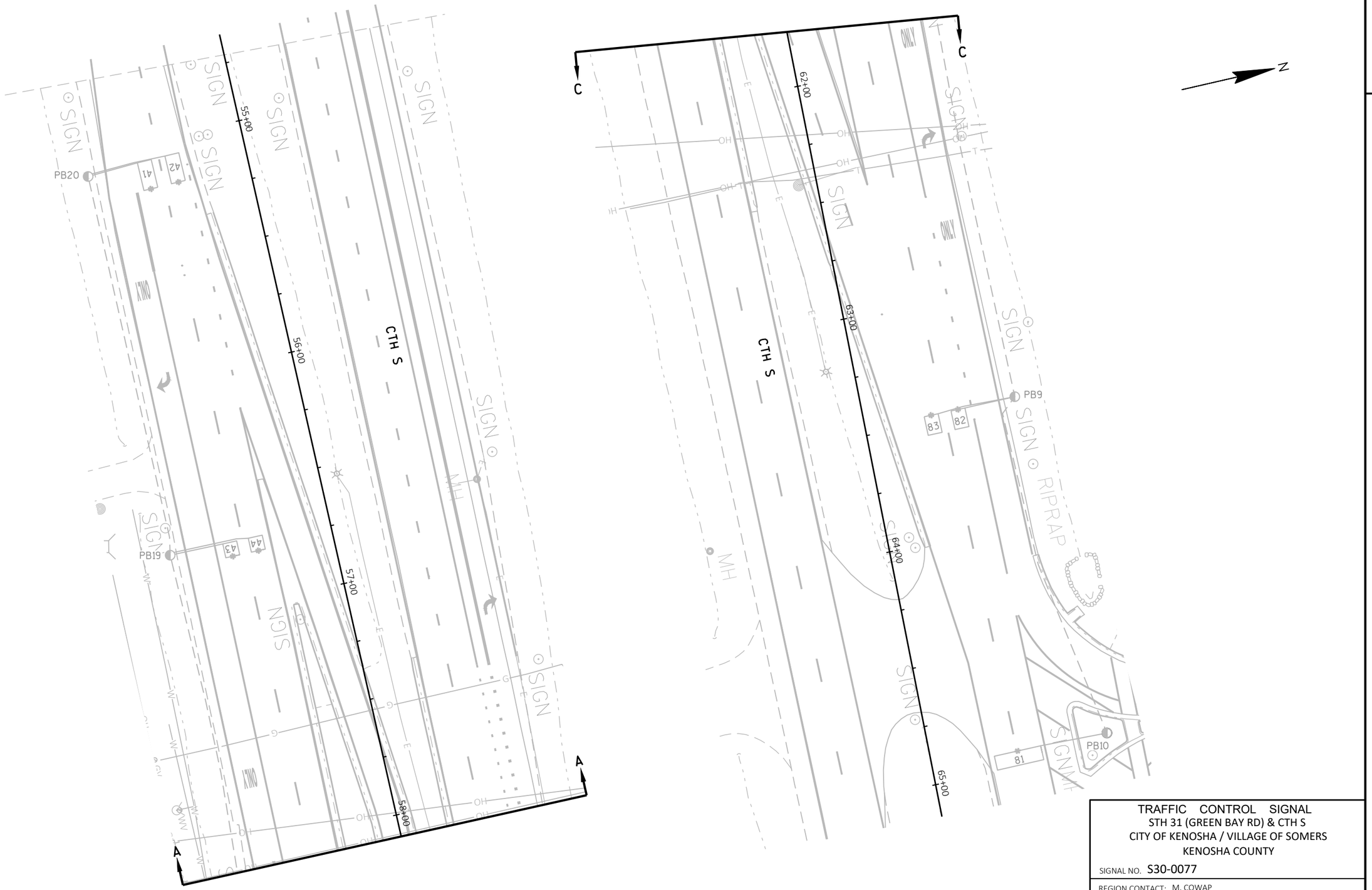
PAGE 1 OF 3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 88 E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_REM_20.DWG
LAYOUT NAME - S30-0077_rem_pg1

PLOT DATE : 4/28/2022 11:50 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH S
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 2 OF 3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 89	E

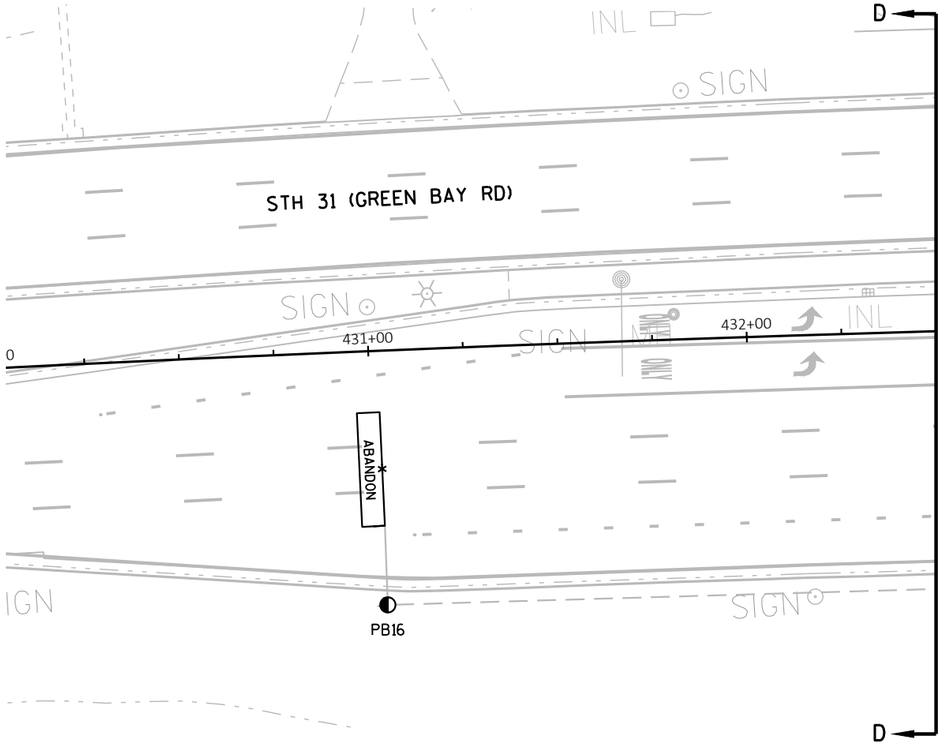
FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_REM_20.DWG
LAYOUT NAME - S30-0077_rem_pg2

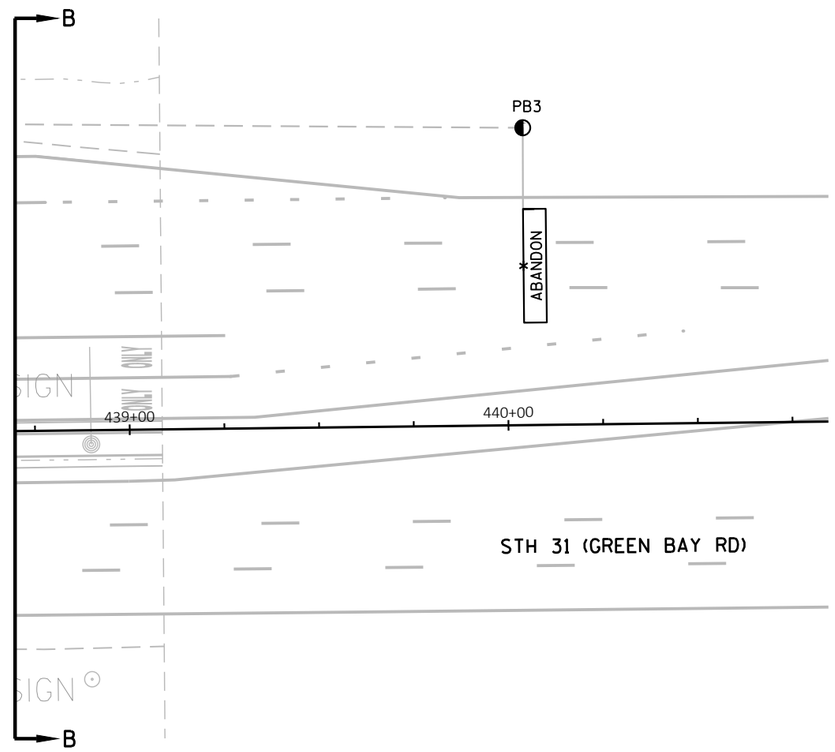
PLOT DATE : 4/28/2022 11:51 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD) & CTH S
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY:
REVISED BY: J. BRUGGEMAN

PAGE 3 OF 3

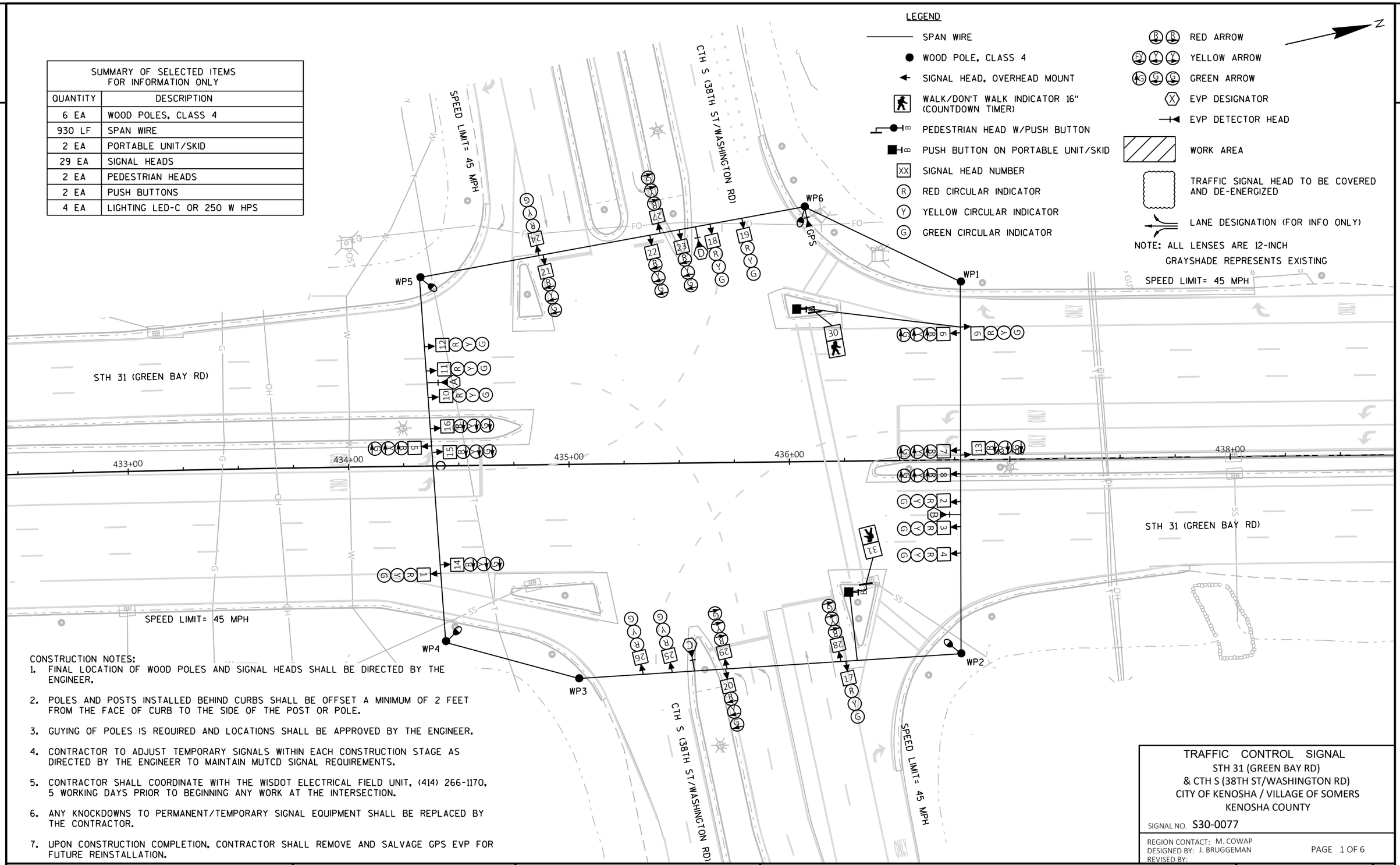
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 90	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_REM_20.DWG
LAYOUT NAME - S30-0077_rem_pg3

PLOT DATE : 4/28/2022 11:51 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

SUMMARY OF SELECTED ITEMS FOR INFORMATION ONLY	
QUANTITY	DESCRIPTION
6 EA	WOOD POLES, CLASS 4
930 LF	SPAN WIRE
2 EA	PORTABLE UNIT/SKID
29 EA	SIGNAL HEADS
2 EA	PEDESTRIAN HEADS
2 EA	PUSH BUTTONS
4 EA	LIGHTING LED-C OR 250 W HPS



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES AND SIGNAL HEADS SHALL BE DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. CONTRACTOR SHALL COORDINATE WITH THE WISDOT ELECTRICAL FIELD UNIT, (414) 266-1170, 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK AT THE INTERSECTION.
6. ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR.
7. UPON CONSTRUCTION COMPLETION, CONTRACTOR SHALL REMOVE AND SALVAGE GPS EVP FOR FUTURE REINSTALLATION.

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 1 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION	SHEET 91	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_TS_SPRECON_18.DWG
LAYOUT NAME - TS_SPrecon
PLOT DATE : 4/28/2022 12:40 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- LANE DESIGNATION (FOR INFO ONLY)

NOTE: ALL LENSES ARE 12-INCH

GRAYSHADE REPRESENTS EXISTING

N

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

WP1 WP2 WP3 WP4 WP5 WP6 GPS

STH 31 (GREEN BAY RD)

435

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

SPEED LIMIT= 45 MPH

STH 31 (GREEN BAY RD)

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET 92	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_TS_S1_18.DWG
LAYOUT NAME - TS_S1

PLOT DATE : 4/28/2022 12:41 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- LANE DESIGNATION (FOR INFO ONLY)

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

WP1 WP2 WP3 WP4 WP5 WP6

GPS

STH 31 (GREEN BAY RD)

435

438+00.00

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

SPEED LIMIT= 45 MPH

STH 31 (GREEN BAY RD)

438+00.00

SPEED LIMIT= 45 MPH

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 3 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 93	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_TS_S1A_18.DWG
LAYOUT NAME - TS_S1A

PLOT DATE : 4/28/2022 12:41 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- LANE DESIGNATION (FOR INFO ONLY)

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

WP1 WP2 WP3 WP4 WP5 WP6

GPS

STH 31 (GREEN BAY RD)

435

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

SPEED LIMIT= 45 MPH

STH 31 (GREEN BAY RD)

TRAFFIC CONTROL SIGNAL

STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 94	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_TS_S2_18.DWG
LAYOUT NAME - TS_S2

PLOT DATE : 4/28/2022 12:42 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- SPAN WIRE
- WOOD POLE, CLASS 4
- SIGNAL HEAD, OVERHEAD MOUNT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- PEDESTRIAN HEAD W/PUSH BUTTON
- PUSH BUTTON ON PORTABLE UNIT/SKID
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R R RED ARROW
- Y Y YELLOW ARROW
- G G GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- WORK AREA
- TRAFFIC SIGNAL HEAD TO BE COVERED AND DE-ENERGIZED
- LANE DESIGNATION (FOR INFO ONLY)

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

WP1 WP2 WP3 WP4 WP5 WP6

GPS

STH 31 (GREEN BAY RD)

435

438+00.00

SPEED LIMIT= 45 MPH

CTH S (38TH ST/WASHINGTON RD)

SPEED LIMIT= 45 MPH

STH 31 (GREEN BAY RD)

438+00.00

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 5 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 95	E

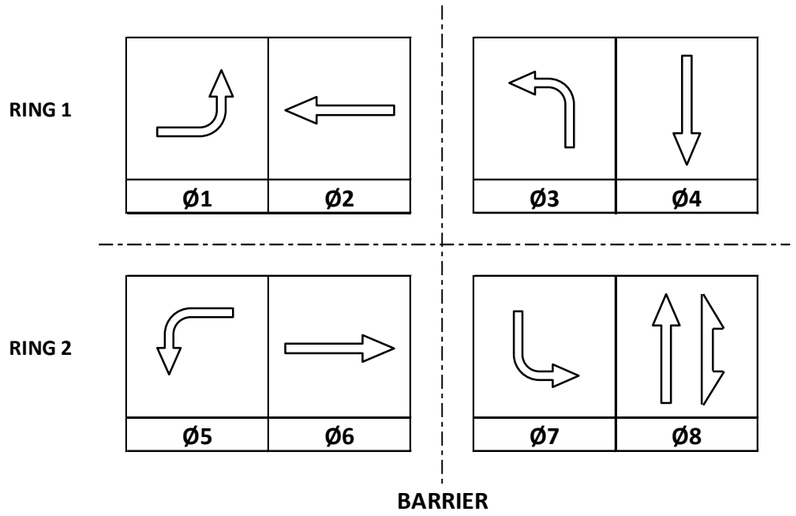
FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_TS_S2A_18.DWG
LAYOUT NAME - TS_S2A

PLOT DATE : 4/28/2022 12:42 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH
Ø1	5,6,7,8	R
Ø2	9,10,11,12	R
Ø3	20,21,22,23	R
Ø4	24,25,26	R
Ø5	13,14,15,16	R ←
Ø6	1,2,3,4	R
Ø7	27,28,29	R ←
Ø8	17,18,19	R
Ø2P		
Ø4P		
Ø6P		
Ø8P	30,31	
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

N

STH 31 (GREEN BAY RD) & CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO:	S30-0077	CABINET TYPE:	TEMP
		CONTROLLER TYPE:	ECONOLITE
DATE:	MAY 2022	PAGE NUMBER:	6 OF 6

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	SEQUENCE OF OPERATIONS	SHEET NO:	E

FILE NAME: C:\Users\DOTMXC\Desktop\Seq_Sheet\TS1.xlsx PLOT DATE: 4/5/2022 PLOT NAME: TS1.xlsx PLOT BY: _____ PLOT SCALE: 1:1

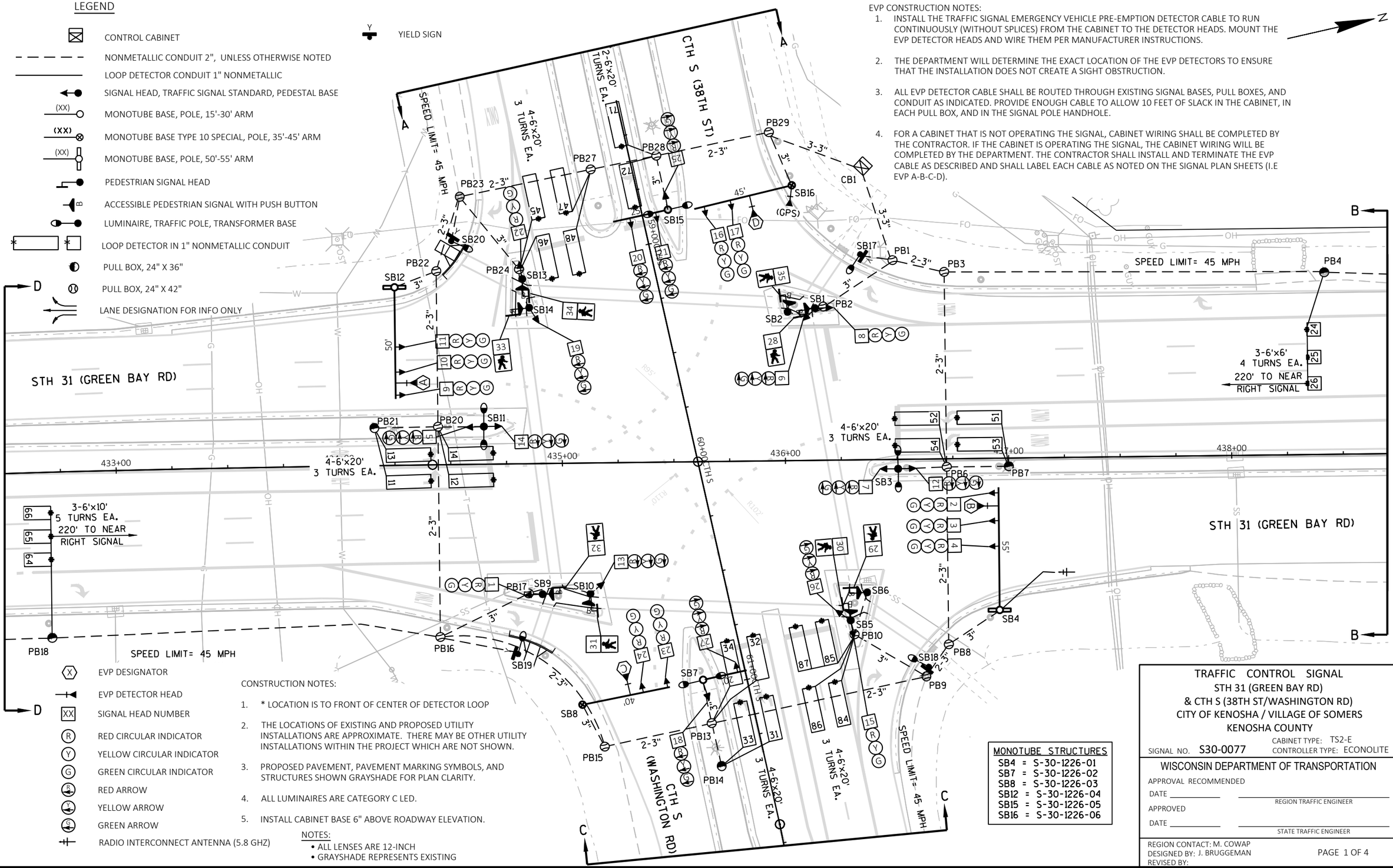
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE TYPE 10 SPECIAL, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 50'-55' ARM
- PEDESTRIAN SIGNAL HEAD
- B ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- LANE DESIGNATION FOR INFO ONLY
- Y YIELD SIGN

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING SHALL BE COMPLETED BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE COMPLETED BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE SIGNAL PLAN SHEETS (I.E EVP A-B-C-D).



- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- RADIO INTERCONNECT ANTENNA (5.8 GHZ)

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT OF CENTER OF DETECTOR LOOP
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. PROPOSED PAVEMENT, PAVEMENT MARKING SYMBOLS, AND STRUCTURES SHOWN GRAYSHADE FOR PLAN CLARITY.
4. ALL LUMINAIRES ARE CATEGORY C LED.
5. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.

NOTES:
- ALL LENSES ARE 12-INCH
- GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURES
SB4 = S-30-1226-01
SB7 = S-30-1226-02
SB8 = S-30-1226-03
SB12 = S-30-1226-04
SB15 = S-30-1226-05
SB16 = S-30-1226-06

TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE _____ REGION TRAFFIC ENGINEER
APPROVED
DATE _____ STATE TRAFFIC ENGINEER

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 1 OF 4

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 97	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_18.DWG
LAYOUT NAME - 0242201-CTH_S
PLOT DATE : 6/14/2022 7:27 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

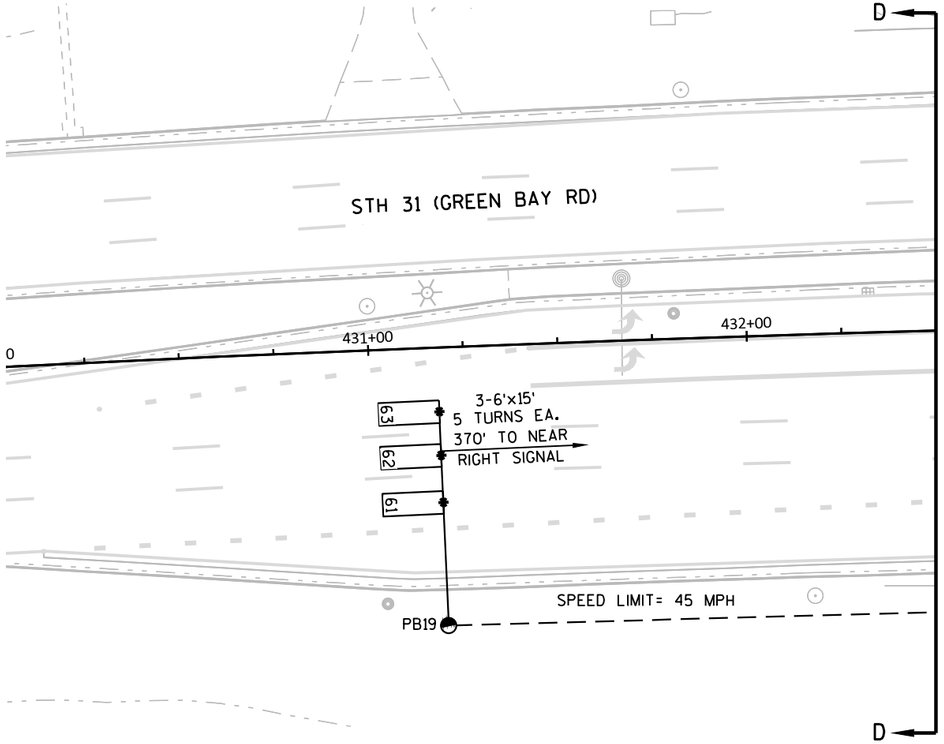
PAGE 2 OF 4

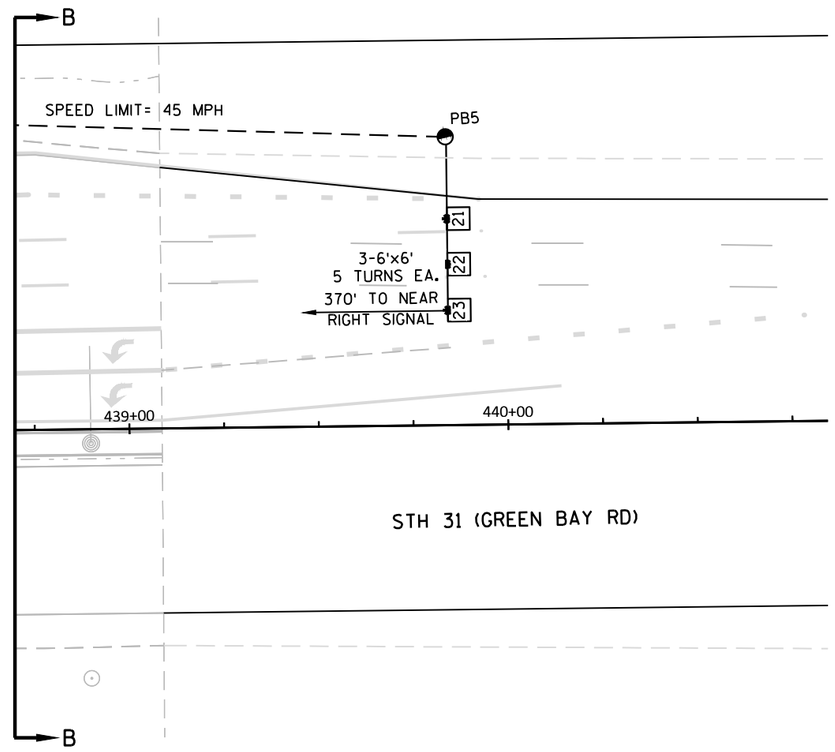
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 98	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_18.DWG
LAYOUT NAME - 0242201-CTH_S_p2
PLOT DATE : 6/14/2022 7:28 AM
PLOT BY : BRUGGEMAN, JOHN
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 31 (GREEN BAY RD)
& CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO. S30-0077

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 3 OF 4

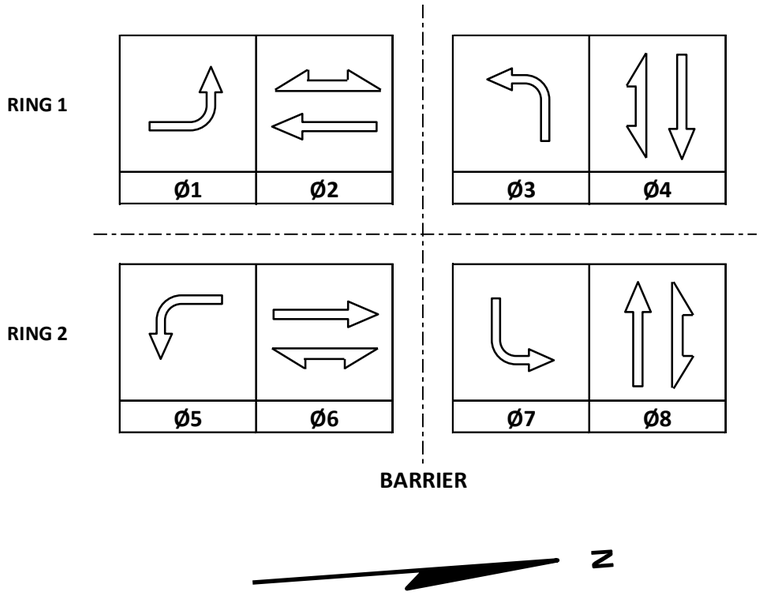
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL PLAN	SHEET 99	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\CAD\33300700\SIG\S30-0077\S30-0077_18.DWG
LAYOUT NAME - 0242201-CTH_S_p3

PLOT DATE : 6/14/2022 7:29 AM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19,20,21	R ←
Ø4	22,23,24	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	25,26,27	R ←
Ø8	15,16,17	R
Ø2P	34,35	
Ø4P	33,32	
Ø6P	30,31	
Ø8P	28,29	
OLE		
OLF		
OLG		
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 30-0119

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER (GPS)	X
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	13	21	23	25	31	33	41
CALLED PHASE	1	1	2	2	2	3	3	4
CALL OPTION	X	X	X	X	X	X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								X
USE ADDED INITIAL			X	X	X			
CROSS SWITCH PHASE								

19	17	23	21	27	25	31	29
43	45	47	51	53	61	63	65
4	4	4	5	5	6	6	6
	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X							
					X	X	X

35	33	39	37	43		49	51	DETECTOR INPUT
71	81	83	85	87		APS	APS	PLAN LOOP DETECTOR*(S)
7	8	8	8	8		2	6	CALLED PHASE
X			X	X		X	X	CALL OPTION
								DELAY TIME
X	X	X	X	X		X	X	EXTENTION OPTION
	X	X						EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	14	22	24	26	32	34	42
CALLED PHASE	1	1	2	2	2	3	3	4
CALL OPTION	X	X	X	X	X	X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								X
USE ADDED INITIAL			X	X	X			
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30
44	46	48	52	54	62	64	66
4	4	4	5	5	6	6	6
	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X							
					X	X	X

36	34	40	38	44		50	52	DETECTOR INPUT
72	82	84	86	88		APS	APS	PLAN LOOP DETECTOR*(S)
7	8	8	8	8		4	8	CALLED PHASE
X		X	X	X		X	X	CALL OPTION
								DELAY TIME
X	X	X	X	X		X	X	EXTENTION OPTION
	X							EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

STH 31 (GREEN BAY RD) & CTH S (38TH ST/WASHINGTON RD)
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

SIGNAL NO: S30-0077 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: MAY 2022 PAGE NUMBER: 4 OF 4

FILE NAME: C:\BoxDrv\Box\Signals\Databases\Signal Intersection Files\S30-0077\PLANS\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: 5/24/2022 PLOT NAME: TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT BY: M COWAP PLOT SCALE: 1:1

PROJECT ID:	3330-07-70
INTERSECTION:	STH 31 (GREEN BAY RD) & CTH S (38TH ST)

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

STH 31 & CTH S

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	15	6				RED	ORG	GRN					
		8	RED/BLK	ORG/BLK	GRN/BLK								
		28								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB2	7	35								BLK	BLU		
		B										RED	WHT/BLK
SB3	12	7				RED	ORG	GRN					
		12				RED/BLK	ORG/BLK	GRN/BLK					
SB4	7	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
SB5	15	15				RED	ORG	GRN					
		26	RED/BLK	ORG/BLK	GRN/BLK								
		30								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB6	7	29								BLK	BLU		
		B										RED	WHT/BLK
SB7	12	18				RED/BLK	ORG/BLK	GRN/BLK					
		27				RED	ORG	GRN					
SB8	7	23	RED	ORG	GRN								
		24	RED	ORG	GRN								
SB9	15	1	RED	ORG	GRN								
		32								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB10	15	13				RED	ORG	GRN					
		31								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB11	12	5				RED	ORG	GRN					
		14				RED/BLK	ORG/BLK	GRN/BLK					
SB12	7	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		11	RED	ORG	GRN								
SB13	15	22	RED	ORG	GRN								
		34								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB14	15	19				RED	ORG	GRN					
		33								BLK	BLU		
		B										RED/WHT	WHT/BLK
SB15	12	20				RED	ORG	GRN					
		21				RED/BLK	ORG/BLK	GRN/BLK					
		25				RED/BLK	ORG/BLK	GRN/BLK					
SB16	7	16	RED	ORG	GRN								
		17	RED	ORG	GRN								

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB3	CB1
PB6	SB3
PB8	SB4
PB9	SB4
PB13	SB7
PB15	SB8
PB16	SB8
PB20	SB11
PB22	SB12
PB23	SB12
PB28	SB15
PB29	SB16

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB17
SB17	SB3
SB3	SB18
SB18	SB7
CB1	SB15
SB15	SB20
SB20	SB11
SB11	SB19

Emergency Vehicle Preemption	
From	To
CB1	HEAD A (SB12)
CB1	HEAD B (SB4)
CB1	HEAD C (SB8)
CB1	HEAD D (SB16)

Radio Antenna Cable	
From	To
CB1	SB4

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

2

2

STH 50 (75TH ST)

N

299+00

300+00

301+00

302+00

303+00

304+00

305+00

STH 31 (GREEN BAY RD)

FIBER OPTIC SPLICE (36)

EXCV7

(1) 36-CT FO CABLE
(1) NO. 12 AWG TRAFFIC SIGNAL WIRE

FO I/C

FO I/C

FO I/C

FO I/C

EXICPB29

EXICPB30

CB1
C30-0050

STH 50 (75TH ST)

TRAFFIC SIGNAL INTERCONNECT
STH 31
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566, S30-0050

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 1 OF 5

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 103	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\33300700\SHEETSPLAN\SIG\IC\024601_IC.DWG
LAYOUT NAME - 024601_ic

PLOT DATE : 4/28/2022 1:59 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

306+00

307+00

308+00

309+00

310+00

311+00

(1) 36-CT FO CABLE
(1) NO. 12 AWG TRAFFIC SIGNAL WIRE

STH 31 (GREEN BAY RD)

FO I/C

EXICPB31

FO I/C

TRAFFIC SIGNAL INTERCONNECT
STH 31
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566, S30-0050

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 2 OF 5

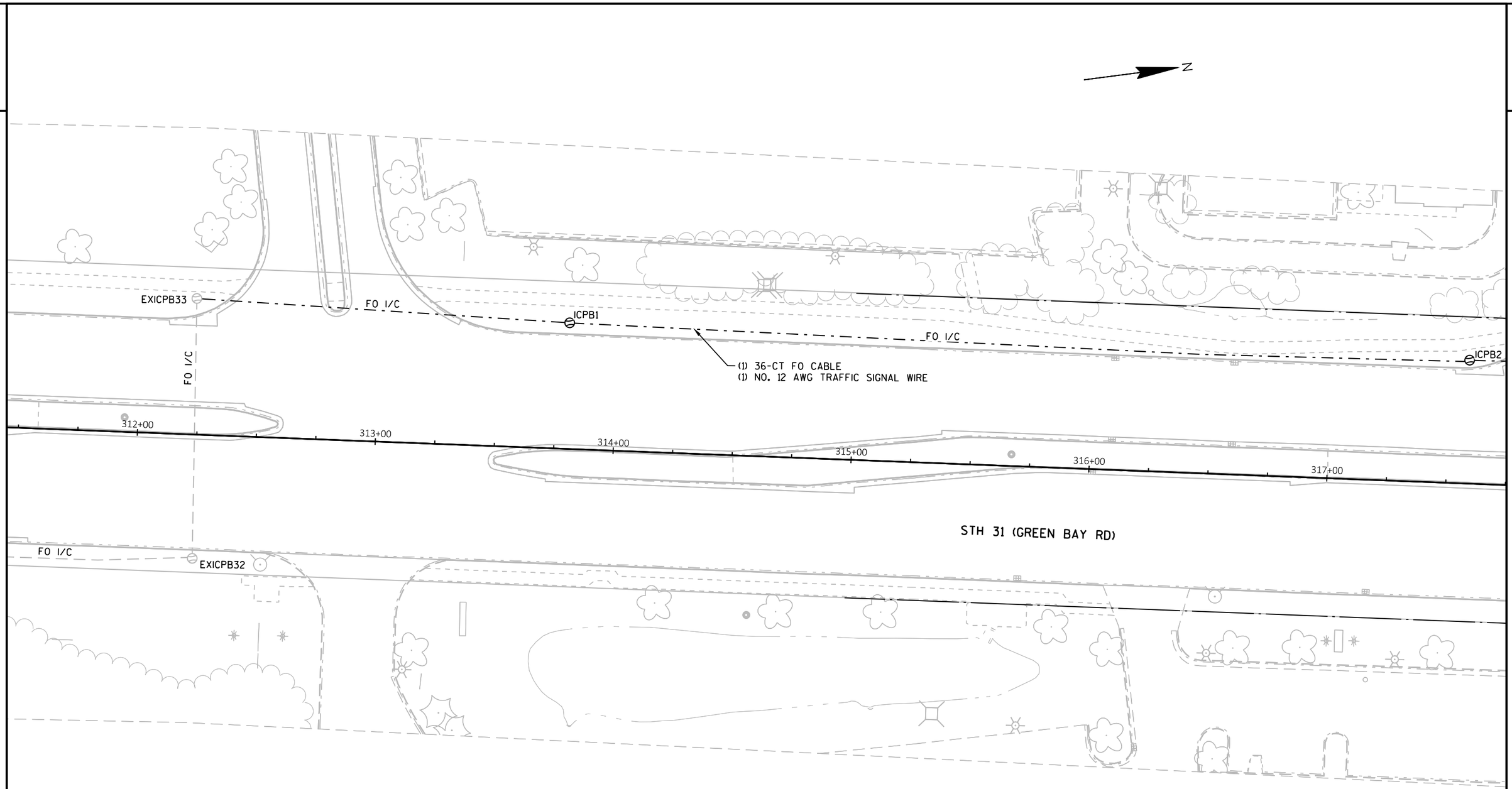
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 104	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\33300700\SHEETSPLAN\SIG\IC\024601_IC.DWG
LAYOUT NAME - 024602_ic

PLOT DATE : 4/28/2022 2:00 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



CONSTRUCTION NOTES:
1. FIBER OPTIC CABLE TO BE INSTALLED IN EXISTING CONDUIT FROM EXICPB33 TO EXCV7 AT STH 50 (S30-0050).

TRAFFIC SIGNAL INTERCONNECT
STH 31
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566, S30-0050

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 3 OF 5

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 105	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\33300700\SHEETSPLAN\SIG\IC\024601_IC.DWG
LAYOUT NAME - 024603_ic

PLOT DATE : 4/28/2022 2:01 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

FO I/C

ICPB3

FO I/C

(1) 36-CT FO CABLE
(1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SS

STH 31

318+00

319+00

320+00

321+00

322+00

323+00

324+

STH 31 (GREEN BAY RD)

TRAFFIC SIGNAL INTERCONNECT
STH 31
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566, S30-0050

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

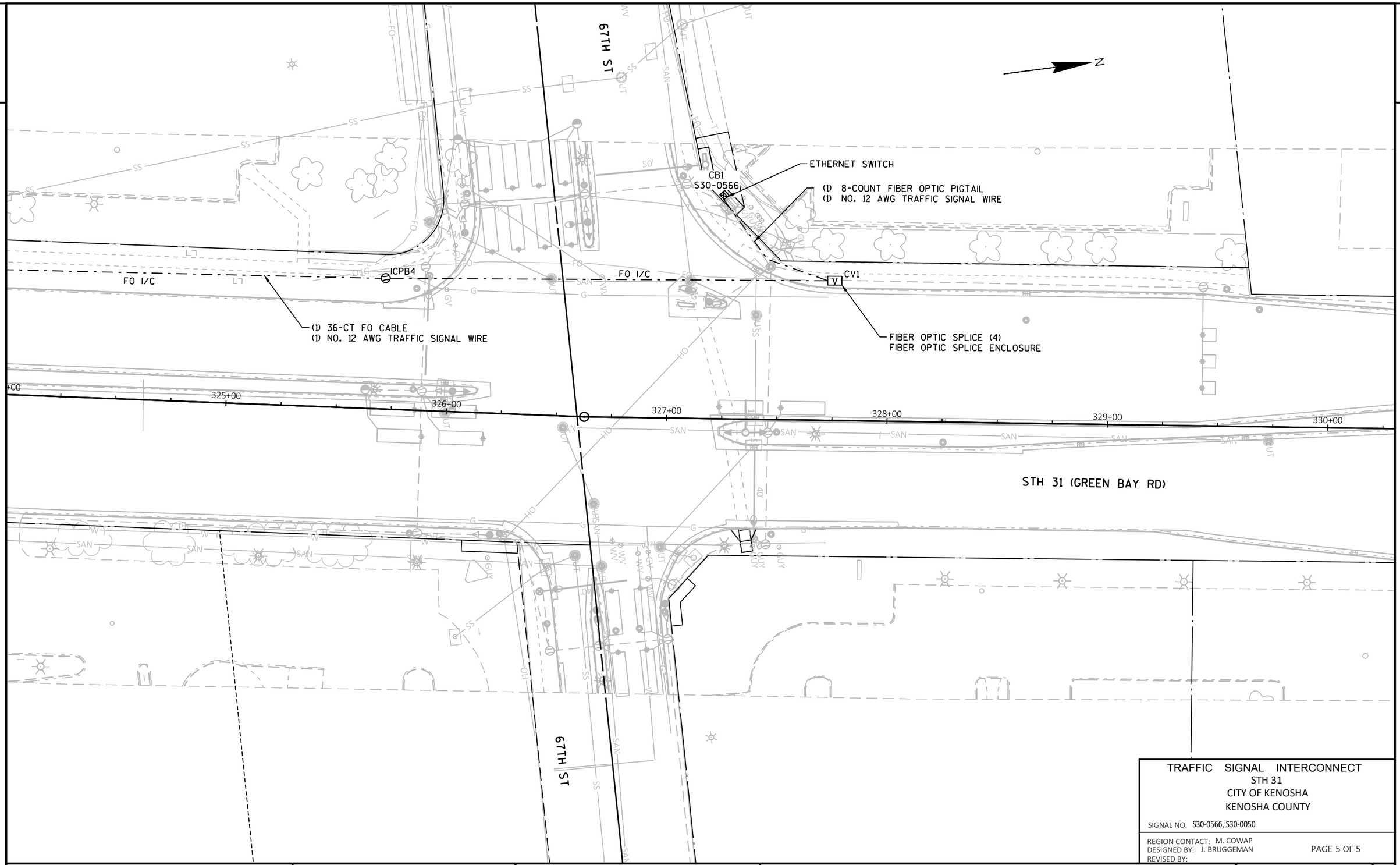
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 106	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\33300700\SHEETSPLAN\SIG\IC\024601_IC.DWG
LAYOUT NAME - 024604_ic

PLOT DATE : 4/28/2022 2:01 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



TRAFFIC SIGNAL INTERCONNECT
STH 31
CITY OF KENOSHA
KENOSHA COUNTY

SIGNAL NO. S30-0566, S30-0050

REGION CONTACT: M. COWAP
DESIGNED BY: J. BRUGGEMAN
REVISED BY:

PAGE 5 OF 5

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 107	E

FILE NAME : \\DOTWKEFILE1P\N3PUBLIC\PDS\C3D\33300700\SHEETSPLAN\SIG\IC\024601_IC.DWG
LAYOUT NAME - 024605_ic

PLOT DATE : 4/28/2022 2:02 PM PLOT BY : BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

STH 31

312+00 313+00 314+00 315+00 316+00 317+00 318+00

+46 +49 +76 +27 +51 +52 +17 +68 +85 +83 +03 +16 +55 +03

10' 11' 11' 11' 11' 11' 10'

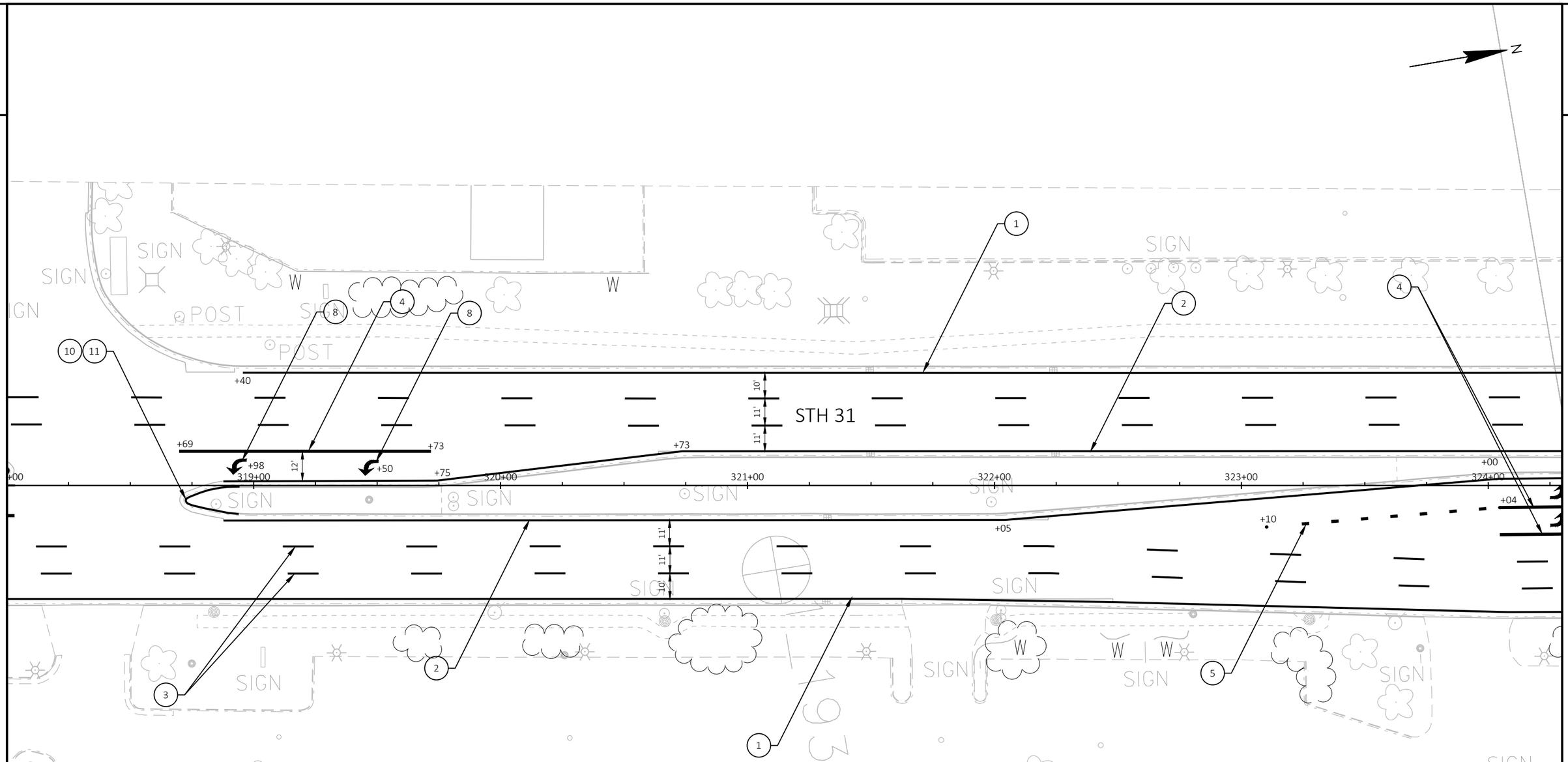
PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 108	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 01
PLOT DATE : 4/28/2022 2:01 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 109	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 02
PLOT DATE : 4/28/2022 2:01 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

67TH STREET

STH 31

ONLY

ONLY

67TH

PI: 326+62.62

R55'

20+00.60

326+00

327+00

328+00

329+00

330+00

325+00

SIGN

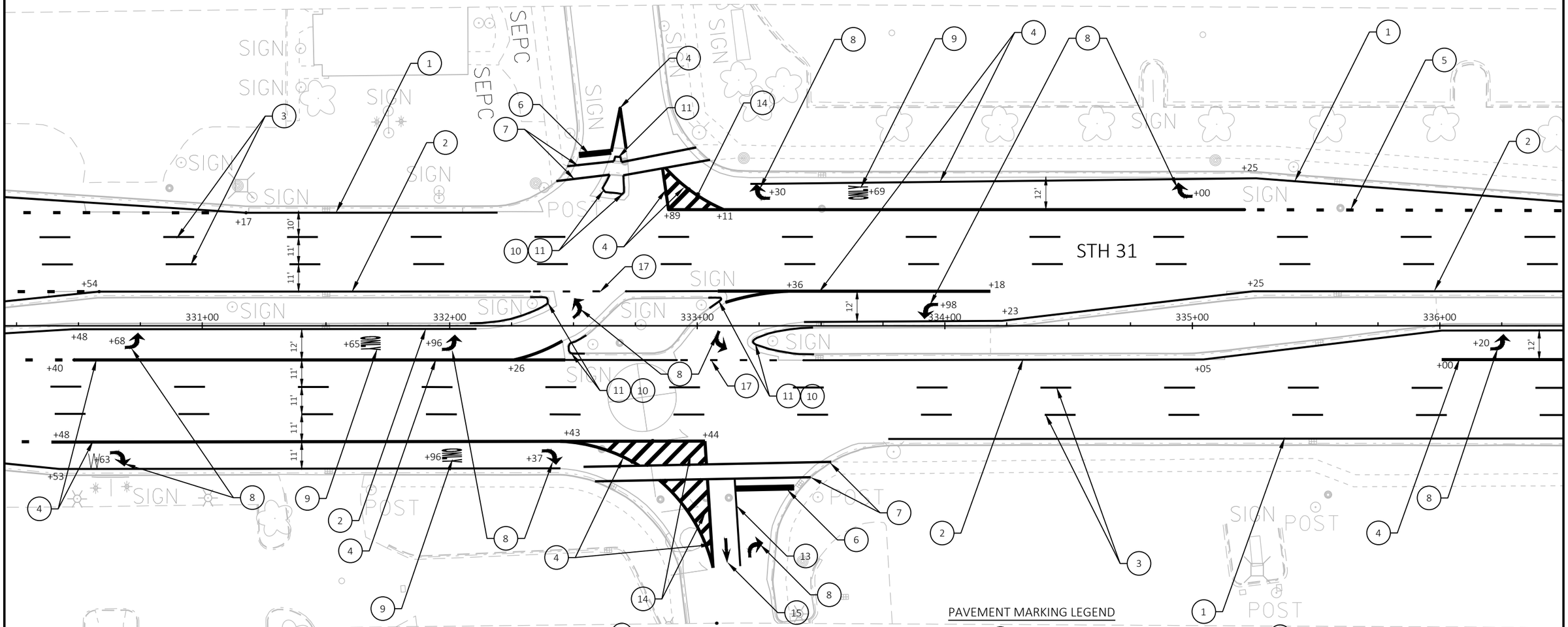
PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 110	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 03
PLOT DATE : 4/28/2022 2:01 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 111	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 04
PLOT DATE : 4/28/2022 2:01 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

64TH STREET

63RD STREET

SIGN

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 112	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05
PLOT DATE : 4/28/2022 2:02 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

+60 +03 +67 +10

PI: 347+21.01

+98 +78 +80 +12 +34 +81 +84 +64

343+00 344+00 345+00 346+00 347+00 348+00

+46 +26 +28 +48 +35 +55

SIGN POST

PAVEMENT MARKING LEGEND

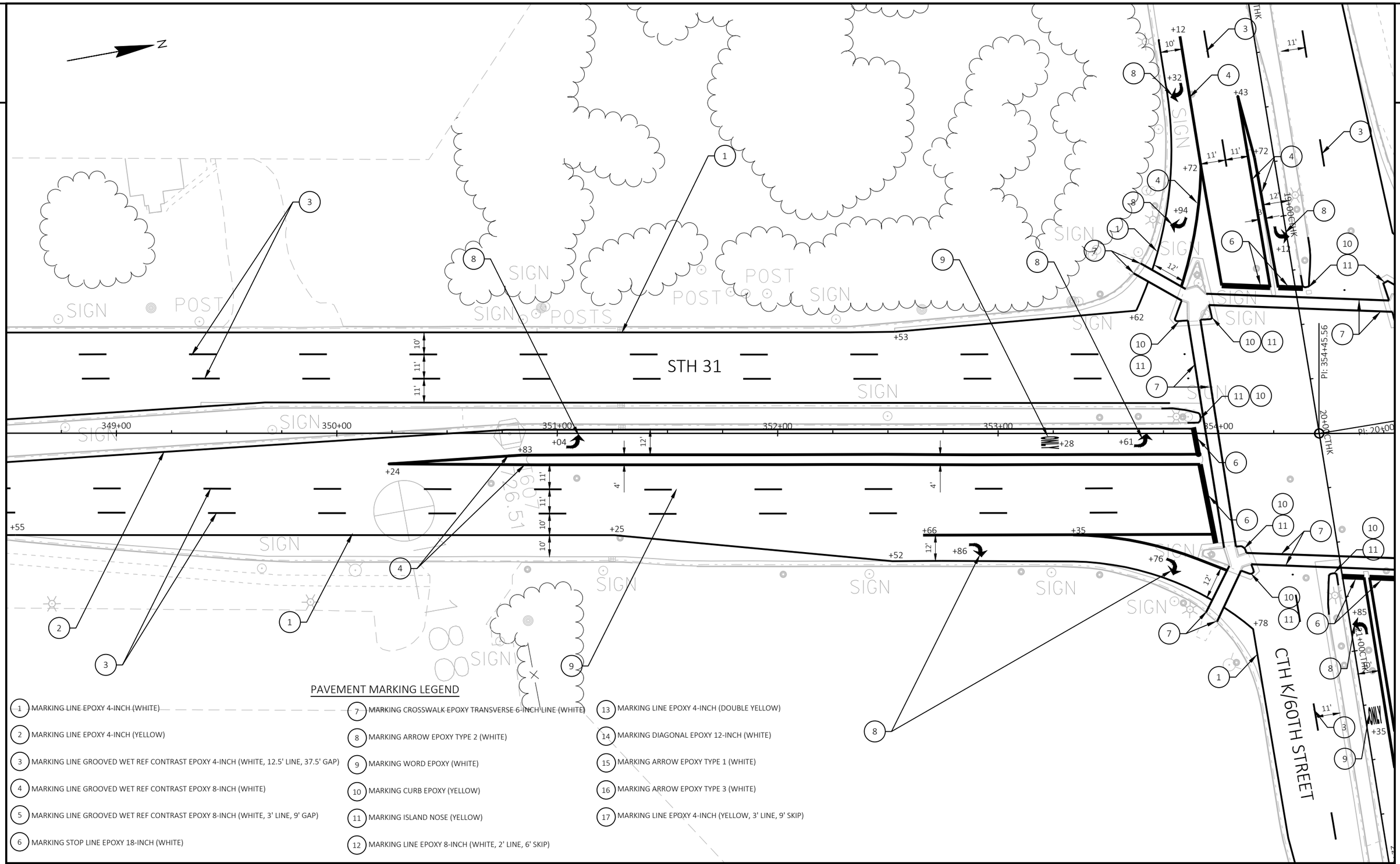
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 113	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 06

PLOT DATE : 4/28/2022 2:02 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

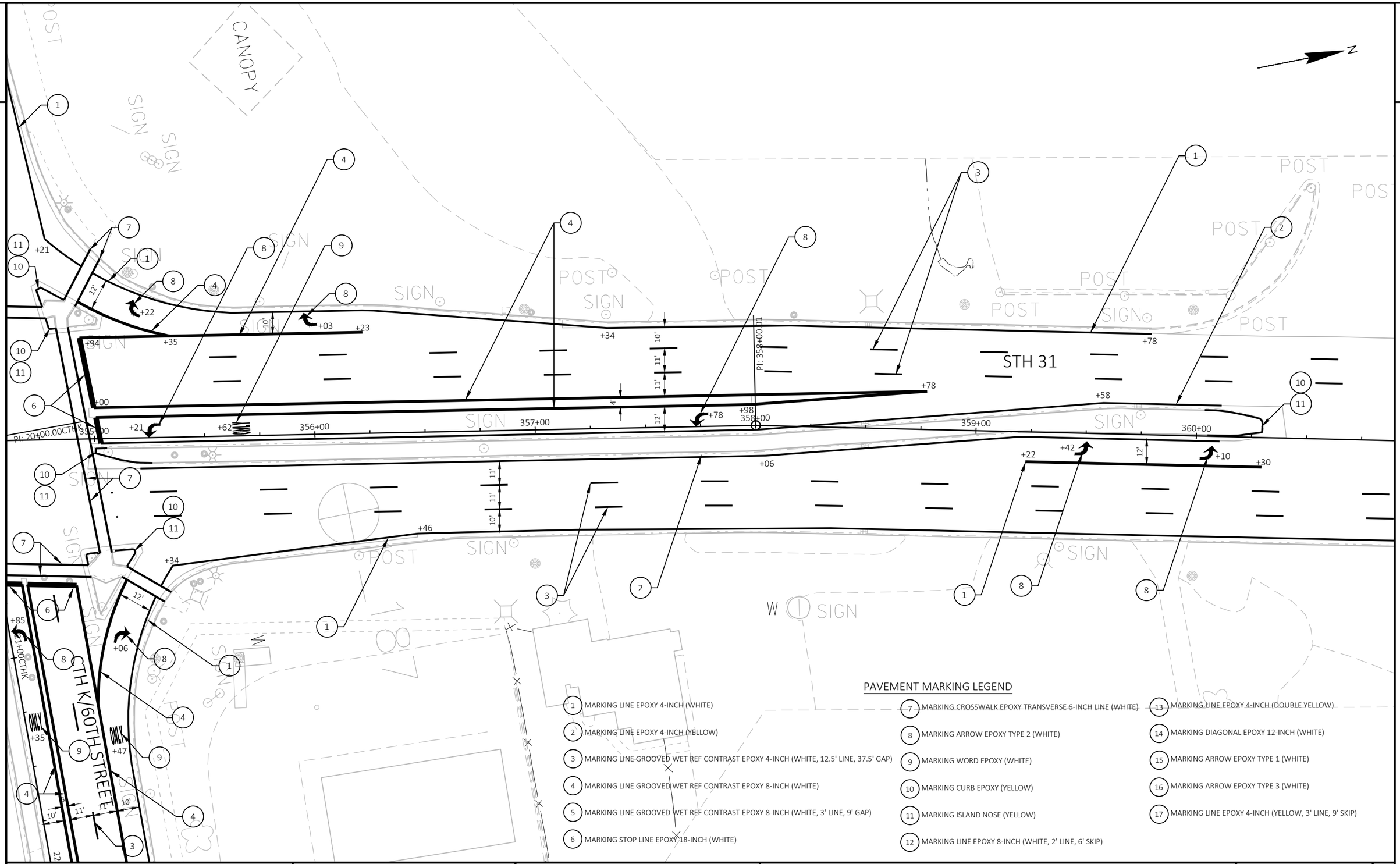


PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 114 E

2

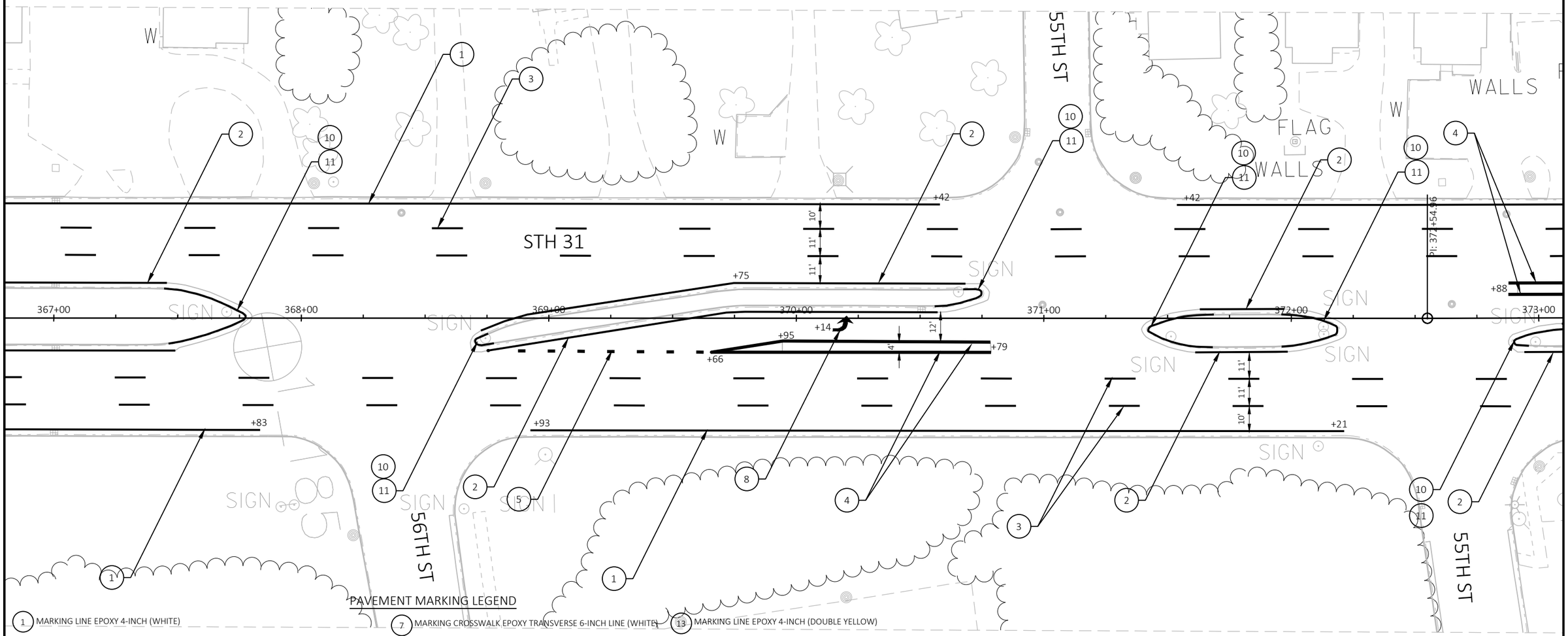


PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
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5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 115	E

2

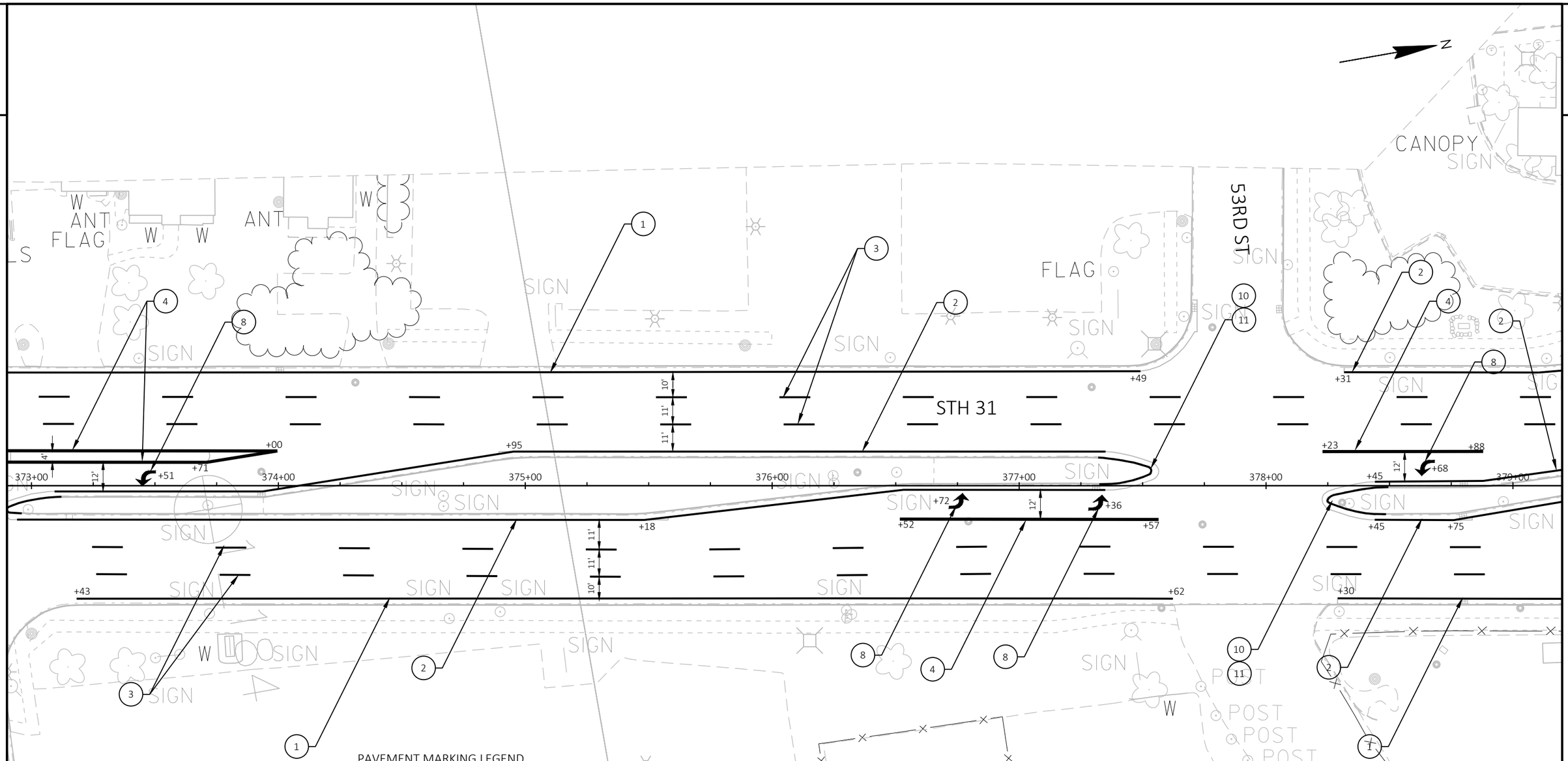


PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 116	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 117	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 11
PLOT DATE : 4/28/2022 2:02 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

STH 31

STH 158

U/C

SIGN

FLAG

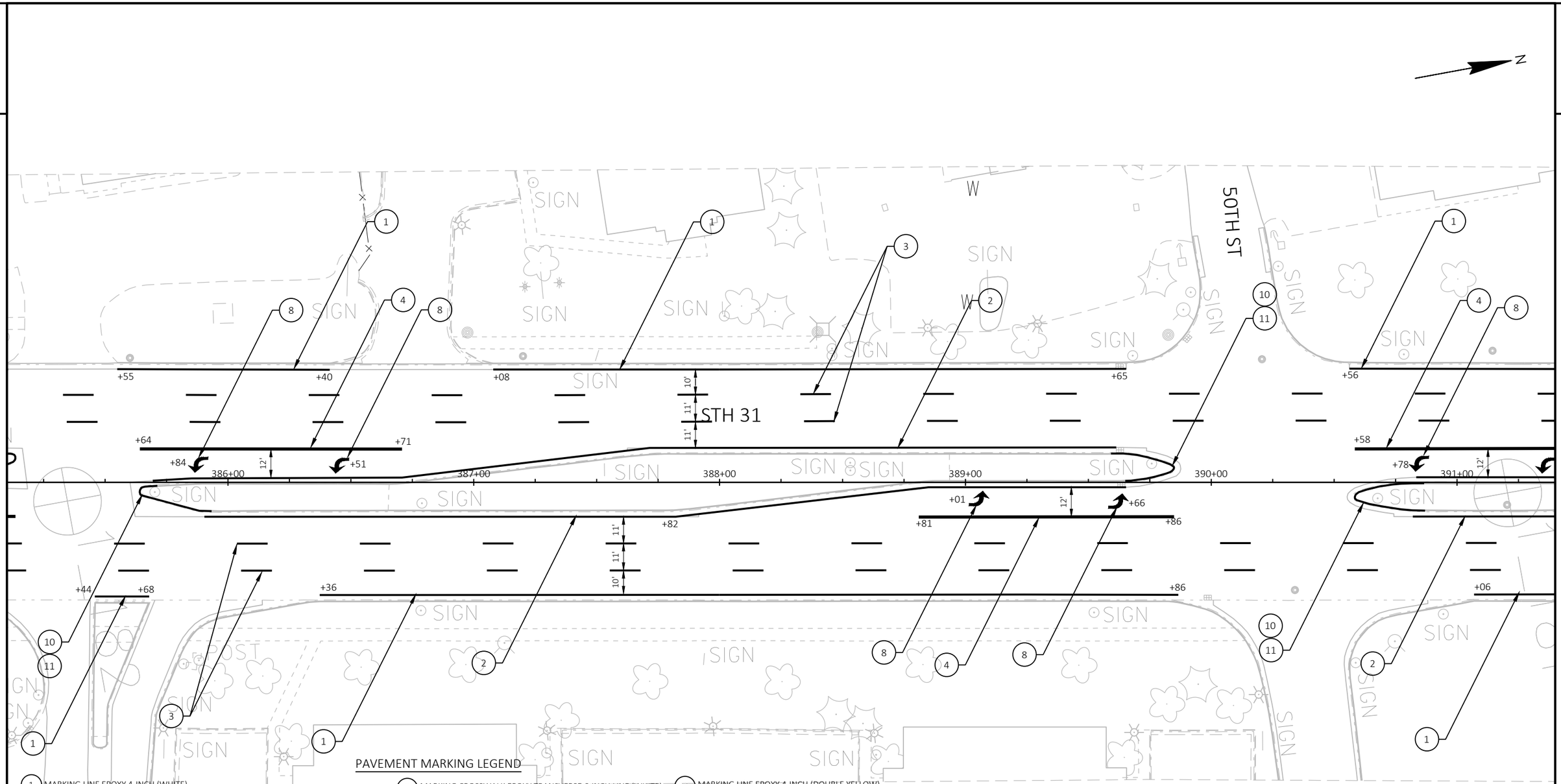
POST

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 118	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 12

PLOT DATE : 4/28/2022 2:03 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

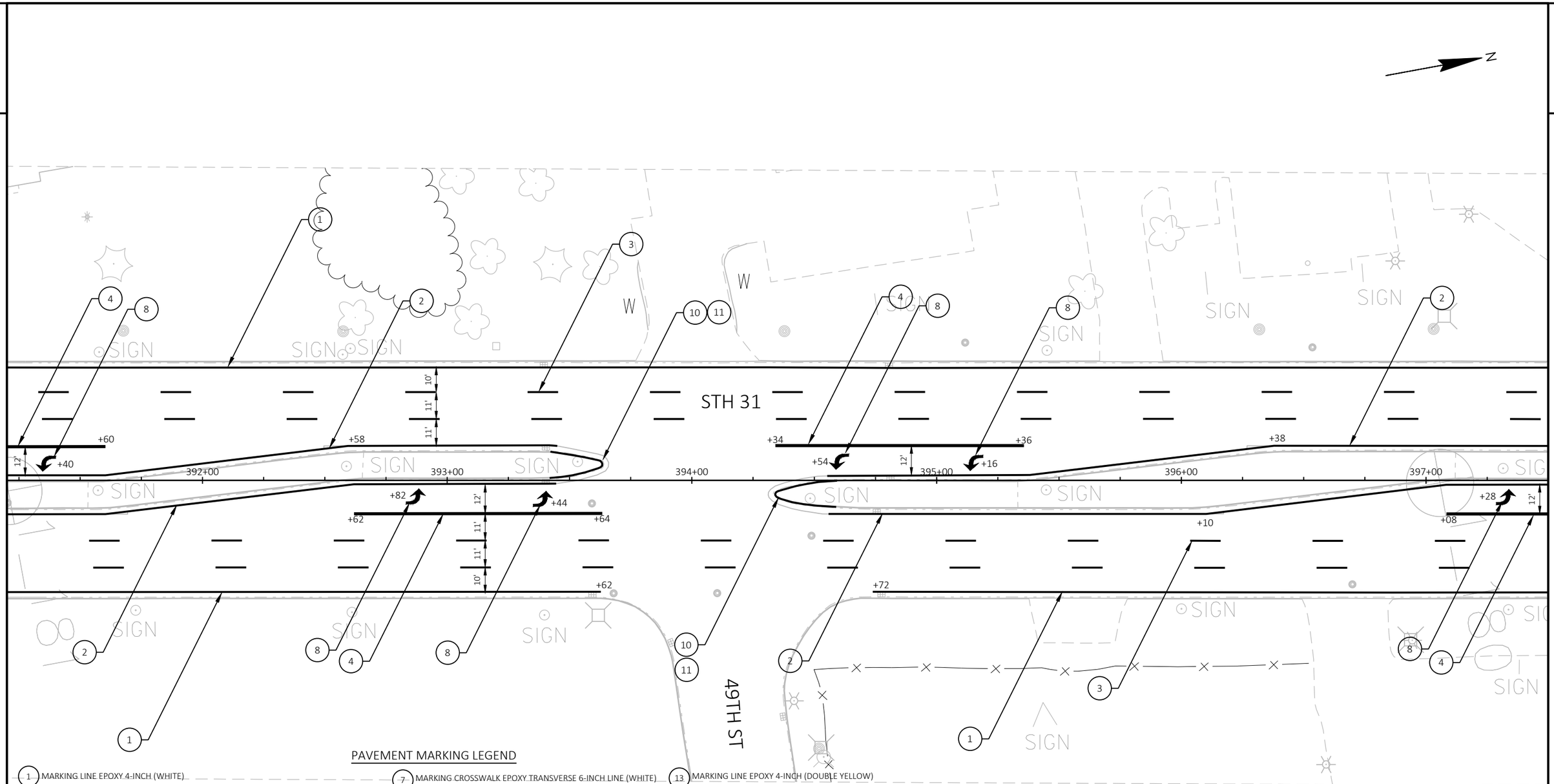


PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 119	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 120	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 14
PLOT DATE : 4/28/2022 2:03 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

398+00 399+00 400+00 401+00 402+00 403+00

+90 +10 +02 +03 +22 +83 +00 +20 +41 +21

12' 11' 11' 10' 11' 10' 12' 12'

SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN POST SIGN A/C

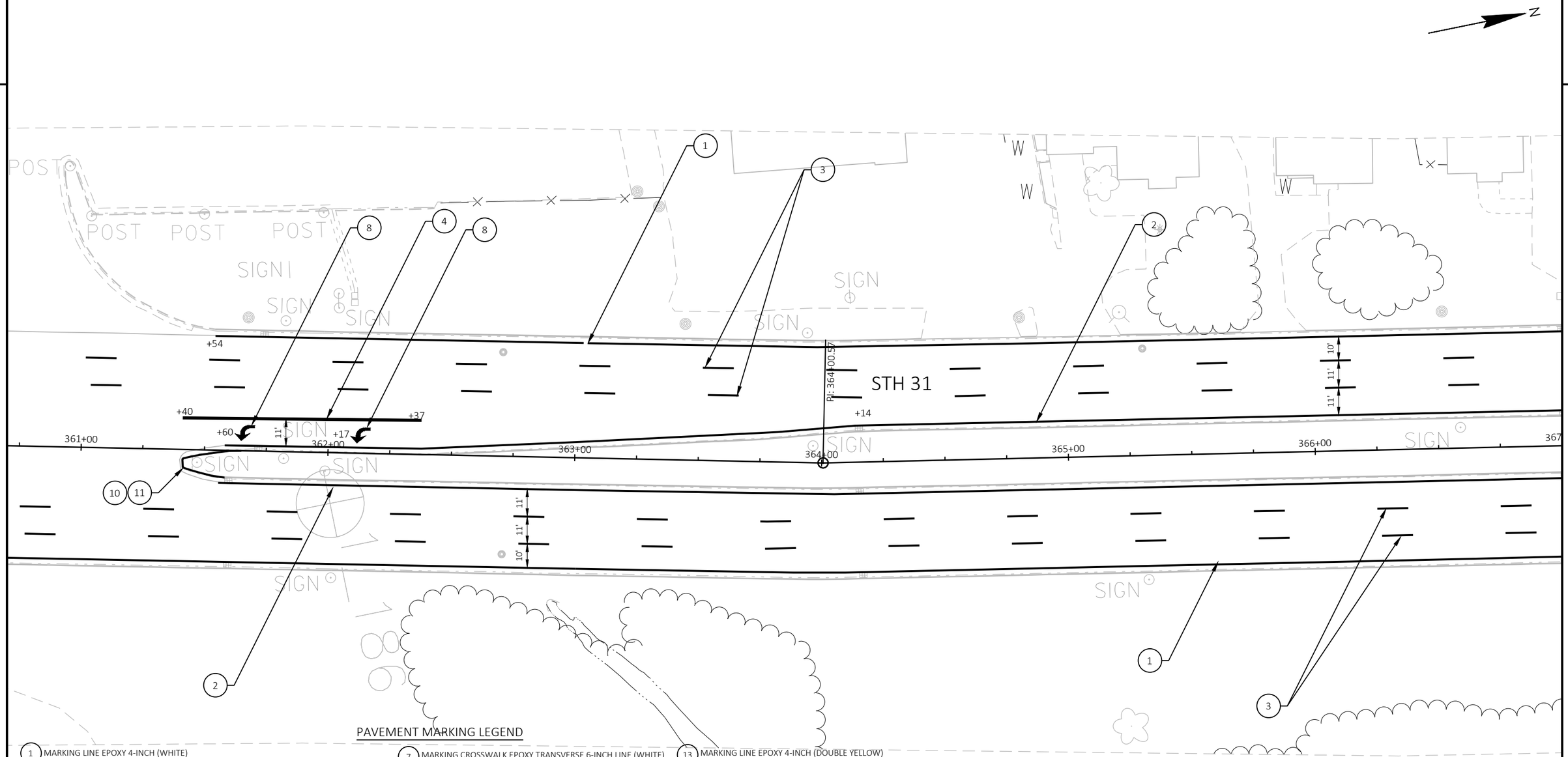
PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 121	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 15
PLOT DATE : 4/28/2022 2:03 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



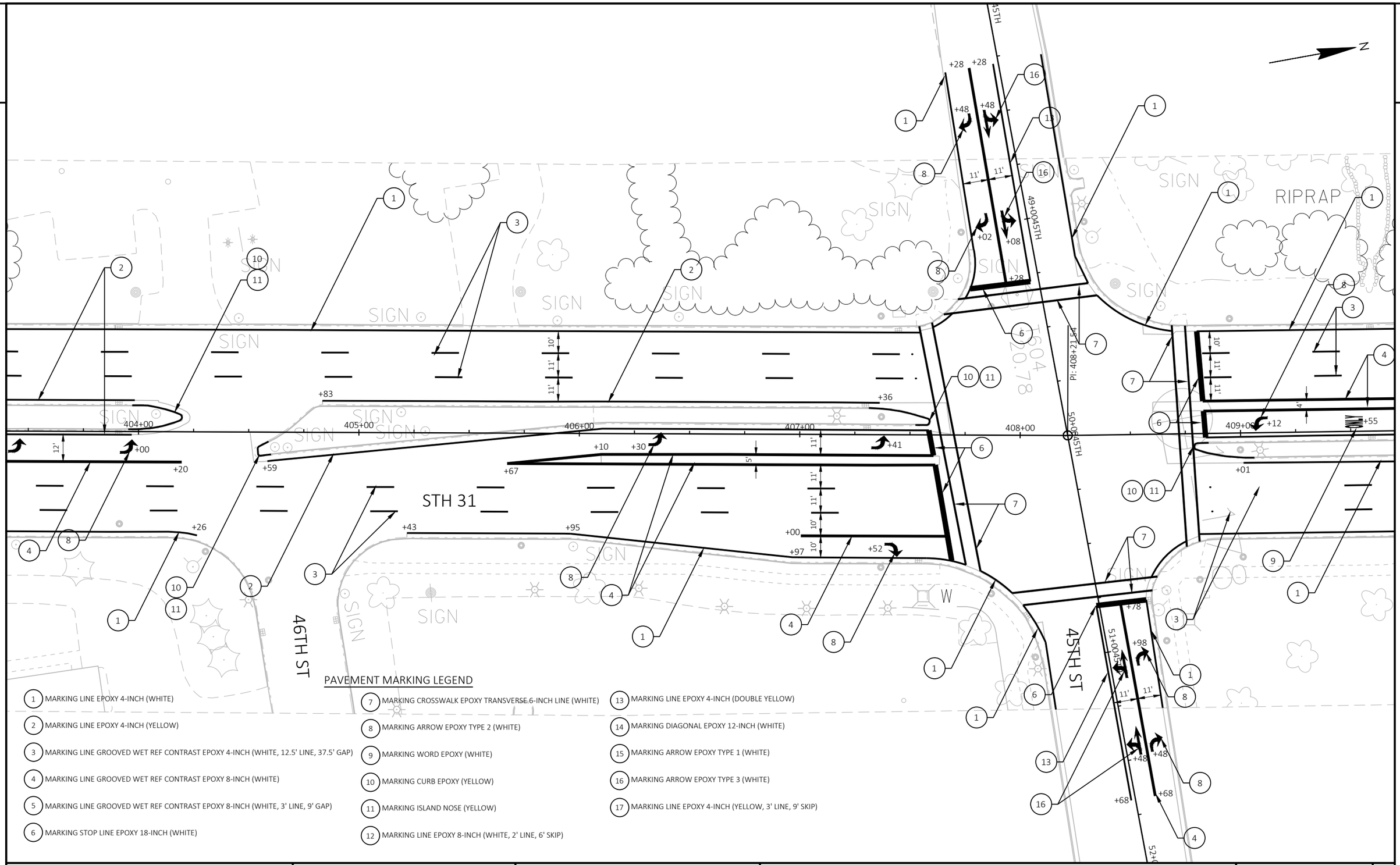
PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 122	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 09
PLOT DATE : 4/28/2022 2:03 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

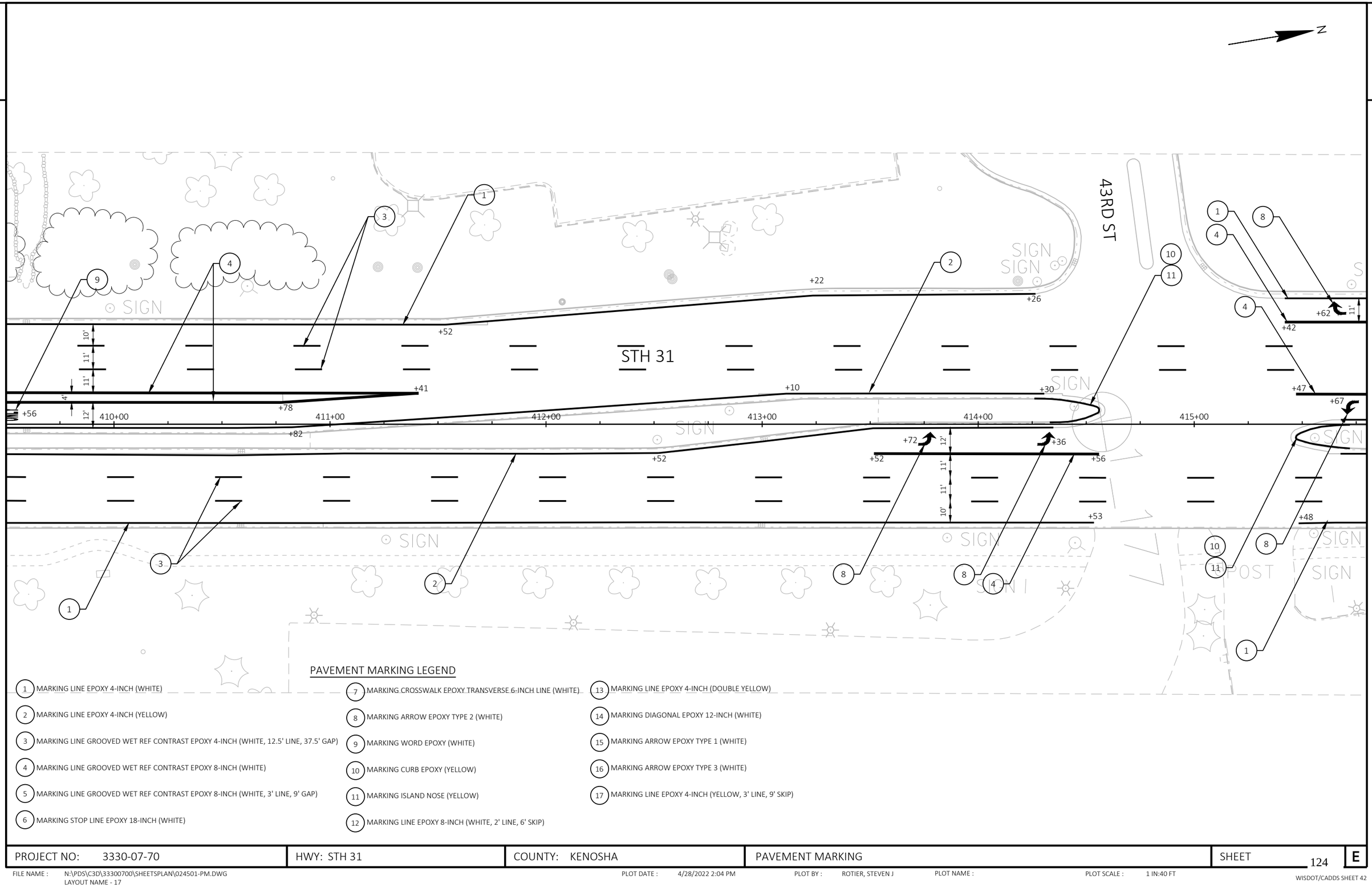


PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 123	E

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 124	E

2

N

STH 31

+71 +11 +31 +87 +48 +77 +28 +48 +15 +35 +42 +22 +34 +96

416+00 417+00 418+00 419+00 420+00 421+00

11' 12' 10' 11' 11' 11' 11' 10'

SIGN

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 125	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 18
PLOT DATE : 4/28/2022 2:04 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

422+00 423+00 424+00 425+00 426+00 427+00 428

+65 +75 +89 +29 +48 +70 +12 +96 +76 +57 +77 +63 +90 +30

10' 11' 11' 11' 11' 10' 12' 12'

PI: 427+00.92

PI: 427+88.37

SIGN

DRIVING RANGE

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 126	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 19
PLOT DATE : 4/28/2022 2:04 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 31

SIGN

PC: 427+88.37

428+00 +29 | 429+00 +00 | 430+00 +28 | 431+00 +12 | 432+00 +43 | 433+00 +58 | 434+00 +78 | +92 | +95 | +29

11' 11' 10' 10' 11' 444' 11' 15'

MINIATURE GOLF COURSE

NGE

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 127	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 20
PLOT DATE : 4/28/2022 2:05 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 128	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 21

PLOT DATE : 4/28/2022 2:05 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

67TH STREET

12+0067TH
13+0067TH
14+0067TH
15+0067TH
16+0067TH
17+0067TH
18+006

+19
+39
11'
+19
+39
11'

8
8
4

PAVEMENT MARKING LEGEND

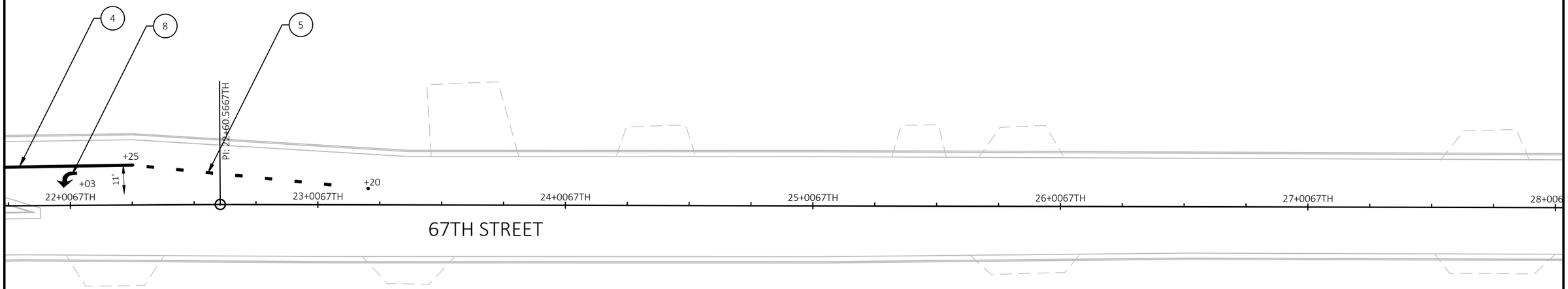
1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING - 67TH STREET	SHEET 129	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 22
PLOT DATE : 4/28/2022 2:05 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING - 67TH STREET	SHEET 130	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 23

PLOT DATE : 4/28/2022 2:05 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

POST

W

POST

POST

POST

POST

POST

1

3

+44

11'

HK

13+00CTHK

14+00CTHK

15+00CTHK

16+00CTHK

17+00CTHK

18+00CTHK

POST

SIGN

CTH K

T705
730.81

T605
728.14

POST

POST

FLAG

SIGN

SIGN

11'

11'

10'

+12

3

4

1

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING - CTH K	SHEET 131	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 24

PLOT DATE : 4/28/2022 2:05 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

POST
A/C
POST

SIGN
606
725.42
SIGN
SIGN

CTH K

22+00CTHK
23+00CTHK
24+00CTHK
25+00CTHK
26+00CTHK
27+00CTHK
28+00

+63
+39
+63
+98
+60
+40
+58

10'
11'
11'
10'
11'

SIGN
SIGN
SIGN
SIGN

POST
POST
A/C
A/C

1 4 8 3 5 4 2 8 2 2

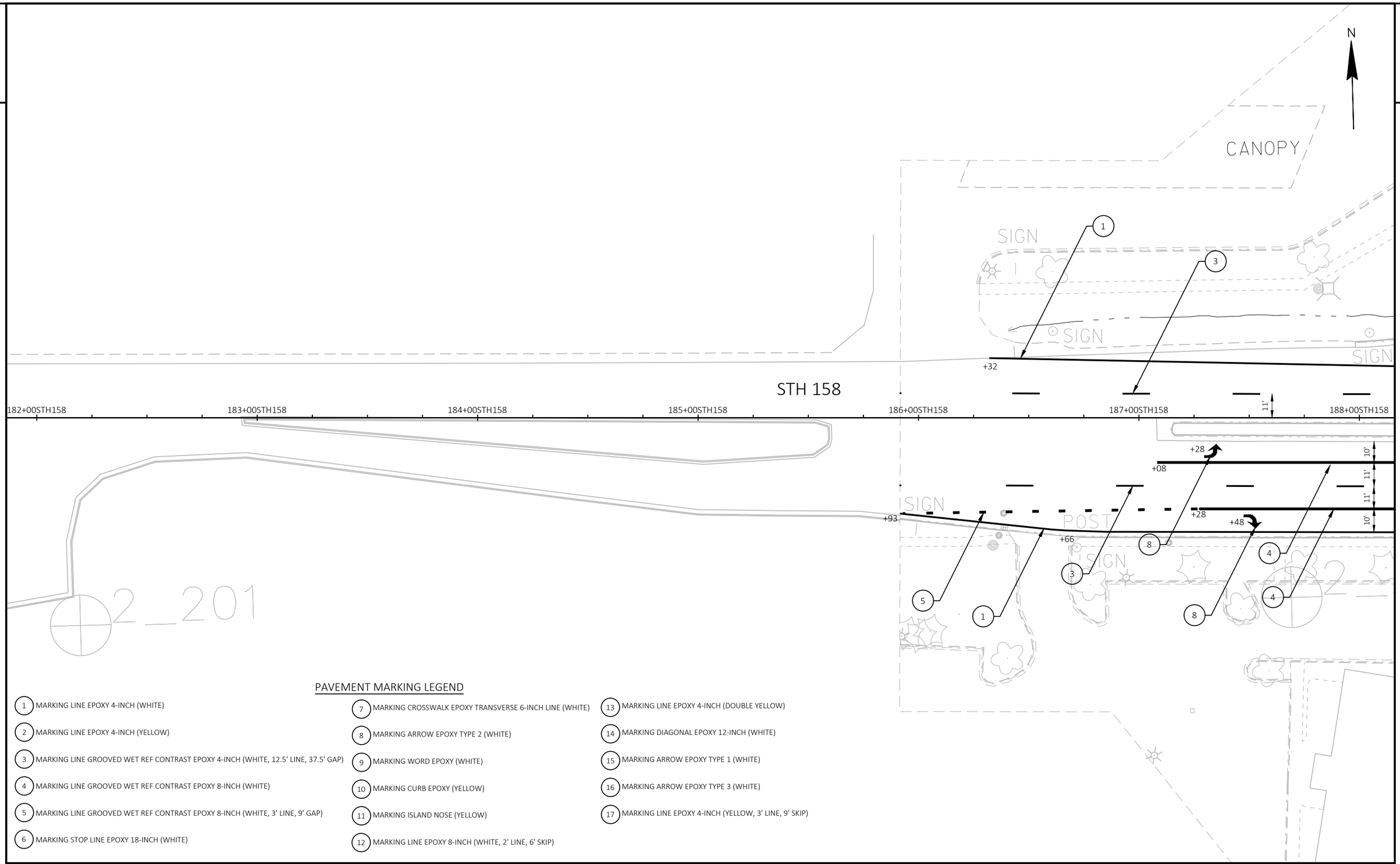
PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING - CTH K	SHEET 132	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 25
PLOT DATE : 4/28/2022 2:06 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING - STH 158	SHEET 133	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 28
PLOT DATE : 4/28/2022 2:06 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STH 158

193+00STH158 194+00STH158 195+00STH158 196+00STH158 197+00STH158 198+00STH158 199+00

+95 +81 +62

11' 11' 11'

SIGN SIGN SIGN SIGN POST SIGN SIGN SIGN SIGN SIGN

W

1805 723.33

U/C

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING - STH 158	SHEET 134	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 29
PLOT DATE : 4/28/2022 2:06 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

POST

SIGN

T602
726.16

SIGN

SIGN

+88

1

T702
726.13

SIGN

53+00CTH S

54+00CTH S

55+00CTH S

56+00CTH S

57+00CTH S

58+00CTH S

SIGN

SIGN

SIGN

+34

+54

11'

11'

14'

+18

SIGN

SIGN

1

5

4

8

3

10

11

PAVEMENT MARKING LEGEND

1. MARKING LINE EPOXY 4-INCH (WHITE)
2. MARKING LINE EPOXY 4-INCH (YELLOW)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE, 12.5' LINE, 37.5' GAP)
4. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
5. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
6. MARKING STOP LINE EPOXY 18-INCH (WHITE)
7. MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH LINE (WHITE)
8. MARKING ARROW EPOXY TYPE 2 (WHITE)
9. MARKING WORD EPOXY (WHITE)
10. MARKING CURB EPOXY (YELLOW)
11. MARKING ISLAND NOSE (YELLOW)
12. MARKING LINE EPOXY 8-INCH (WHITE, 2' LINE, 6' SKIP)
13. MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
14. MARKING DIAGONAL EPOXY 12-INCH (WHITE)
15. MARKING ARROW EPOXY TYPE 1 (WHITE)
16. MARKING ARROW EPOXY TYPE 3 (WHITE)
17. MARKING LINE EPOXY 4-INCH (YELLOW, 3' LINE, 9' SKIP)

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING - CTH S	SHEET 135	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 31

PLOT DATE : 4/28/2022 2:06 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

SIGN
SIGN
SIGN
SIGN
RIPRAP
SIGN
SIGN
SIGN

2

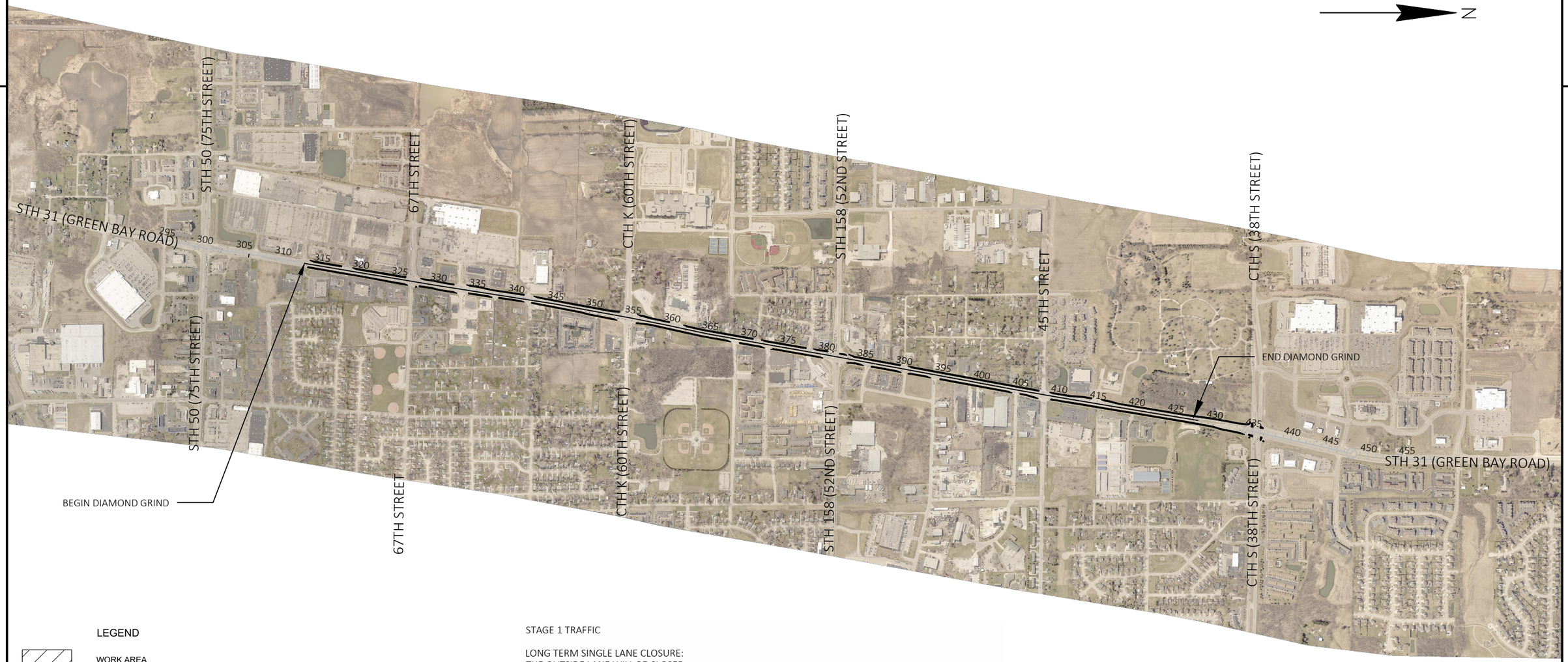
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN AND TWO TYPE A LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- Ⓒ TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- 1 TEMPORARY MARKING LINE EPOXY 4-INCH - WHITE
- 2 TEMPORARY MARKING LINE EPOXY 8-INCH - WHITE
- 3 TEMPORARY MARKING LINE EPOXY 4-INCH - YELLOW
- 4 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH - WHITE
- 5 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH - YELLOW

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER
2) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED
3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE
4) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS TYPE "C" (STEADY BURN ONE WAY) LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED 25-FT O.C. IN TAPERS AND 50-FT O.C. ON TANGENTS.
5) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
6) WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS. SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.
7) WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN ON THE STAGING PLANS, USE THE SAME TRAFFIC CONTROL AS THE PREVIOUS STAGE FOR THAT SEGMENT.
8) EXISTING PAVEMENT MARKING REMOVALS ARE NOT SHOWN IN THE STAGING PLANS. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL BE DONE BY GRINDING ON ANY EXISTING OR TEMPORARY PAVEMENT THAT WILL BE DIAMOND GROUND IN LATER STAGES, OR BY WATER BLASTING ON ANY PERMANENT PAVEMENT OR EXISTING PAVEMENT THAT WILL REMAIN IN PLACE.
9) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.
10) 16" X 16" ORANGE FLAGS ARE REQUIRED ON ALL TEMPORARY STOP SIGNS (SEE CONSTRUCTION DETAILS) OR AS SHOWN IN THE TRAFFIC CONTROL PLANS. 16" X 16" ORANGE FLAGS SHALL BE INCIDENTAL TO TRAFFIC CONTROL SIGN BID ITEMS.
11) ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. IN LIEU OF COVERING POST MOUNTED SIGNS, THE CONTRACT MAY CHOOSE TO REMOVE AND REINSTALL THEM.
12) CONTRACT SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
13) CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR DETAILS OF THE TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN IN THESE PLANS.
14) **PLACE PORTABLE CHANGEABLE MESSAGE BOARD 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY ENGINEER**
15) NO TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WITHIN 50' OF RAILROAD RIGHT-OF-WAY.

2



LEGEND

WORK AREA

STAGE 1 TRAFFIC

LONG TERM SINGLE LANE CLOSURE:
THE OUTSIDE LANE WILL BE CLOSED.
THE INSIDE AND CENTER LANES WILL BE OPEN TO TRAFFIC.

SHORT-TERM DOUBLE LANE CLOSURE:
THE CENTER AND OUTSIDE LANES WILL BE CLOSED.
THE INSIDE LANE WILL BE OPEN TO TRAFFIC.

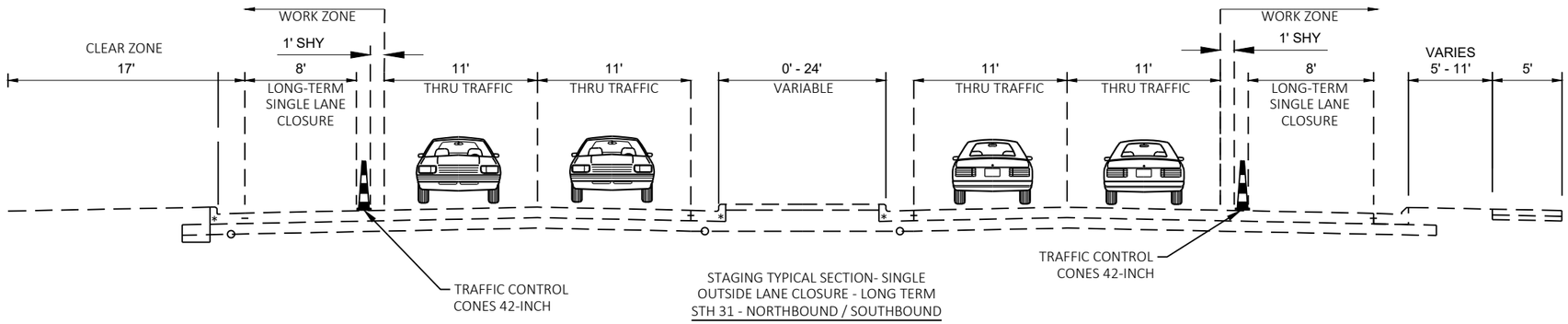
CONSTRUCTION:
INSTALLATION OF TEMPORARY SIGNALS.
INSTALLATION OF TEMPORARY PEDESTRIAN ACCOMMODATIONS.
SAWING.
REMOVAL AND REPLACEMENT OF CURB AND SIDEWALK.
REMOVAL AND REPLACEMENT OF CURB RAMPS.
REMOVAL AND REPLACEMENT OF SIGNAL EQUIPMENT, INCLUDING LOOP DETECTORS.
BASE PATCHING, JOINT AND CRACK REPAIR, DIAMOND GRINDING THE CENTER LANE, OUTSIDE LANE, RIGHT TURN LANES AND SIDE ROADS.
INSTALLATION OF PAVEMENT MARKING, PERMANENT SIGNING AND LANDSCAPING.

FULL-NIGHT TIME CLOSURES ARE ALLOWED FOR SAWING, BASE PATCHING, JOINT AND CRACK REPAIR, AND DIAMOND GRINDING FOR THE CENTER LANE.

EXTENDED HOURS FOR THE DOUBLE LANE CLOSURE WILL BE ALLOWED FOR CURE TIME OF THE CENTER LANE BASE PATCHES.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL OVERVIEW - STAGE 1	SHEET 138	E

2



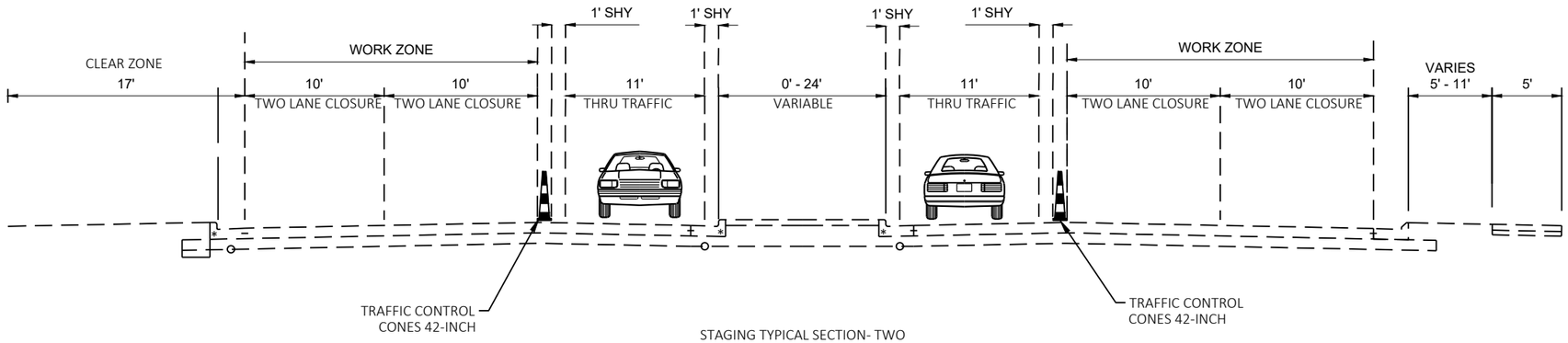
STAGING TYPICAL SECTION- SINGLE
OUTSIDE LANE CLOSURE - LONG TERM
STH 31 - NORTHBOUND / SOUTHBOUND

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL- TYPICAL - STAGE 1 - OUTSIDE SINGLE LANE CLOSURE - LONG TERM	SHEET 139	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103B-TC.DWG
LAYOUT NAME - Typ1

PLOT DATE : 4/29/2022 3:28 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



STAGING TYPICAL SECTION- TWO
OUTSIDE LANE CLOSURE - SHORT TERM
STH 31 - NORTHBOUND / SOUTHBOUND

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - TYPICAL- STAGE 1A - OUTSIDE TWO LANE CLOSURE - SHORT TERM	SHEET 140	E

2

N

69TH AVE

78TH ST

STH 31

POOL

RIPRAP

SIGN

INL

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

280

285

290

4

25' TYP.

540' TAPER

1080' TANGENT

PLACE SIGNS ON OUTSIDE AND MEDIAN
OF STH 31.

ROAD WORK AHEAD
W20-1A

RIGHT TWO LANES CLOSED AHEAD
W20-5RA

ROAD WORK NEXT 2.4 MILES
G20-1
60"X24"

W04-2R

500'

500'

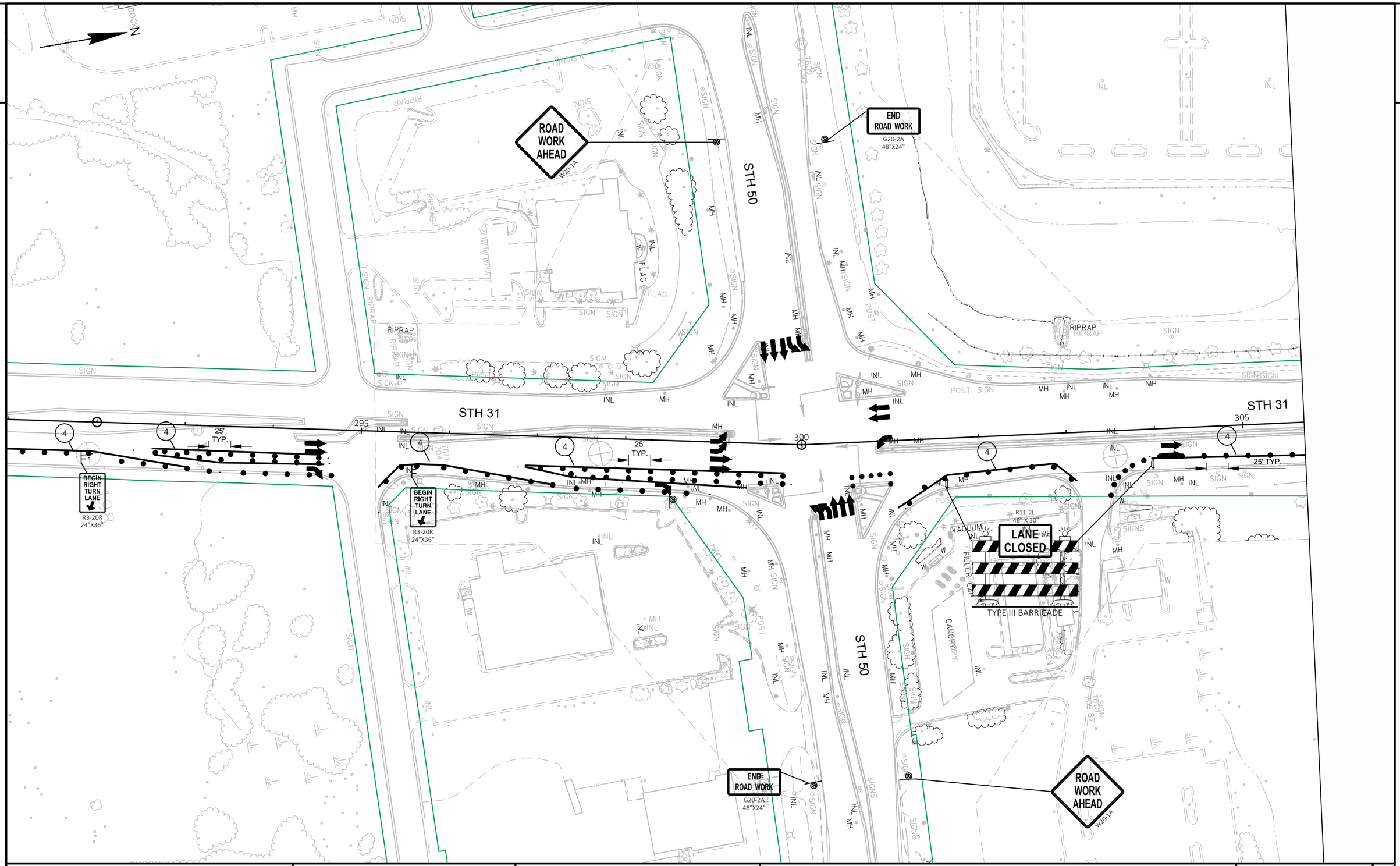
500'

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 141	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (1A)

PLOT DATE : 4/29/2022 3:30 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 142	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (1B)

PLOT DATE : 4/29/2022 3:30 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
CANOPY
30"X30"

RIGHT OF WAY

BEGIN PROJECT
STA 312+88

BEGIN DIAMOND GRIND
STA 312+88

STH 31

50'
100'
W
15' TYP.
25' TYP.
50' TYP.
315
320
310
195
4
A/C
INL
MH
SIGN
POST

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 143	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (2)

PLOT DATE : 4/29/2022 3:30 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

67TH STREET

SEE 67TH ST. TRAFFIC CONTROL SHEETS FOR STAGE 1 TRAFFIC CONTROL.

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STOP
R1-1
30"X30"

65TH STREET

STH 31

50'
25' TYP.
10' TYP.
15' TYP.
50' TYP.
100'
325
330
335

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STOP
R1-1
30"X30"

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 144	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (3)
PLOT DATE : 4/29/2022 3:30 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

ROAD WORK AHEAD
W20-1A

64TH STREET

63RD STREET

RIGHT OF WAY

STH 31

INL
MH
SIGN
POST
50' TYP.
25' TYP.
100'
50'
340
345
15' TYP.
11'

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 145	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (4)

PLOT DATE : 4/29/2022 3:30 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD

END ROAD WORK
G20-2A
48"X24"

CTH K

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STOP
R1-1
30"X30"

CANOPY

A/C

STH 31

RIGHT OF WAY

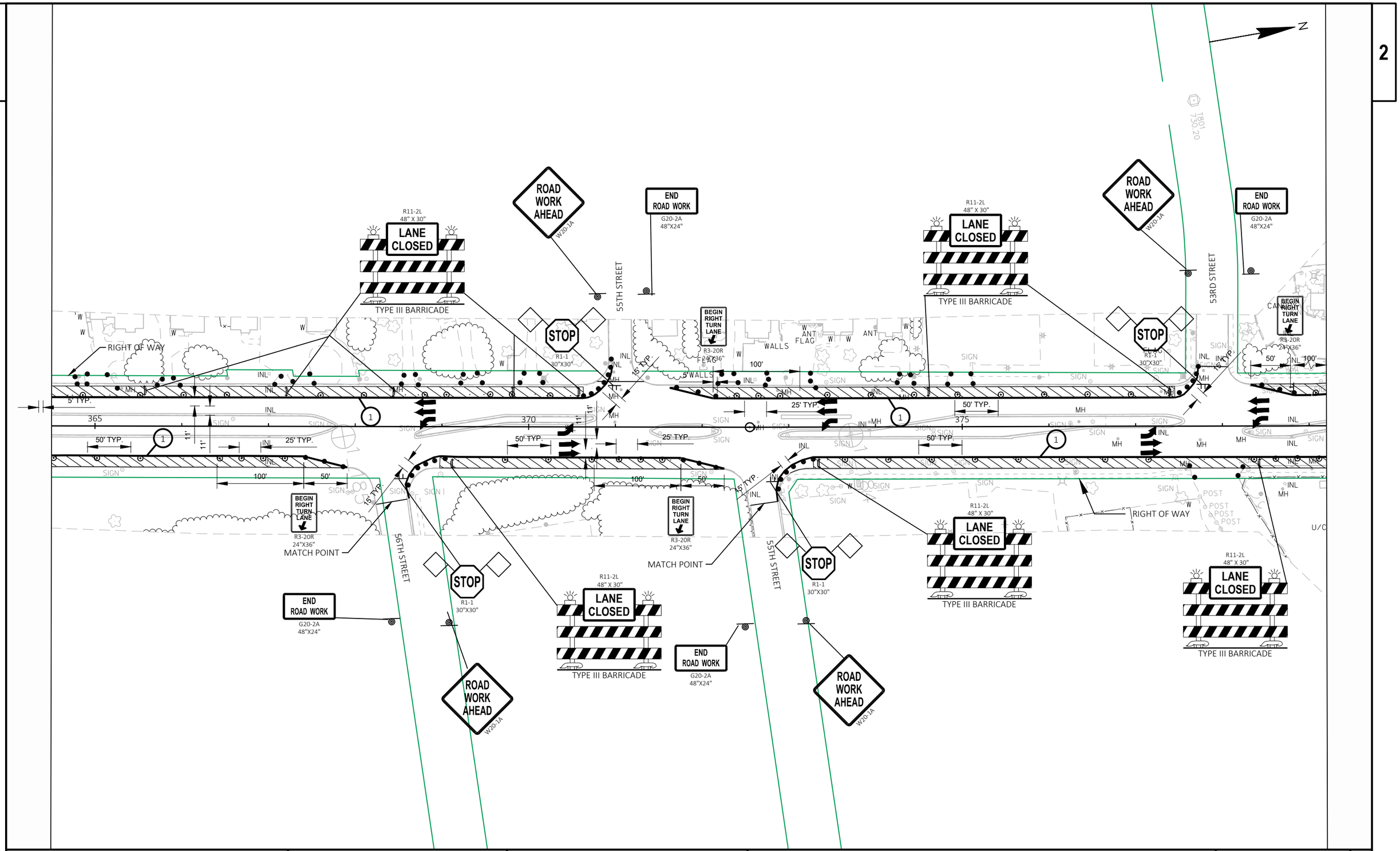
50' TYP.
100'
25' TYP.
15' TYP.
20' TYP.
22' TYP.
33'
22'
11'
350
355
360

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 146 E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (5)

PLOT DATE : 4/29/2022 3:30 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 147	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (6)
PLOT DATE : 4/29/2022 3:31 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

SEE PLAN DETAILS FOR SIDEROAD LIMITS. PLACE SIGNS 500' FROM MATCH POINT.

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

STH 158

CANOPY

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

50TH STREET

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

15' TYP.

25' TYP.

50' TYP.

100'

50'

380

STH 31

385

390

RIGHT OF WAY

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STOP
R1-1
30"X30"

END ROAD WORK
G20-2A
48"X24"

50TH STREET

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

FLAG

U/C

STH 158

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

SEE PLAN DETAILS FOR SIDEROAD LIMITS. PLACE SIGNS 500' FROM MATCH POINT.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 148	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (7)

PLOT DATE : 4/29/2022 3:31 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

5' TYP.

395

400

405

15' TYP.

3'

11'

11'

11'

11'

25' TYP.

25' TYP.

50'

100'

W

INL

MH

SIGN

POST

A/C

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

STOP
R1-1
30"X30"

ROAD WORK AHEAD
W20-1A

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

END ROAD WORK
G20-2A
48"X24"

RIGHT OF WAY

49TH STREET

46TH STREET

45TH STREET

1604
20.78

1

2

2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 149	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (8)

PLOT DATE : 4/29/2022 3:31 PM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

15' TYP.

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

RIPRAP

50'
100'
25'
50' TYP.

410
415
420
STH 31

11'
11'

RIGHT OF WAY

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 150	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (9)
PLOT DATE : 4/29/2022 3:31 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

END DIAMOND GRIND
SOUTBOUND
STA 427+42

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

CTH S

MAX 500'

END PROJECT
STA 437+00

STH 31

425

430

435

50' TYP.

25' TYP.

50'

100'

DRIVING RANGE

MINIATURE GOLF COURSE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

END DIAMOND GRIND
NORTHBOUND
STA 426+60

RIGHT OF WAY

FLAG

RIPRAP

ROAD WORK AHEAD
W20-1A

MAX 500'

CTH S

2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 151	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (10)

PLOT DATE : 4/29/2022 3:31 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

RIPRAP

25' TYP.

MH

STH 31

SIGN

440

50' TYP.

445

35TH ST.

STOP
R1-1
30"X30"

4

25' TYP.

450

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

END ROAD WORK
G20-2A
48"X24"

35TH ST.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 152	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - (11)

PLOT DATE : 4/29/2022 3:31 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

31ST ST.

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

25' TYP.

50' TYP.

4

455

460

465

STH 31

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

EXTEND EXISTING TAPER

25' TYP.

50' TYP.

4

25' TYP.

465

STH 31

STH 31

END ROAD WORK
G20-2A
48"X24"

31ST ST.

ROAD WORK AHEAD
W20-1A

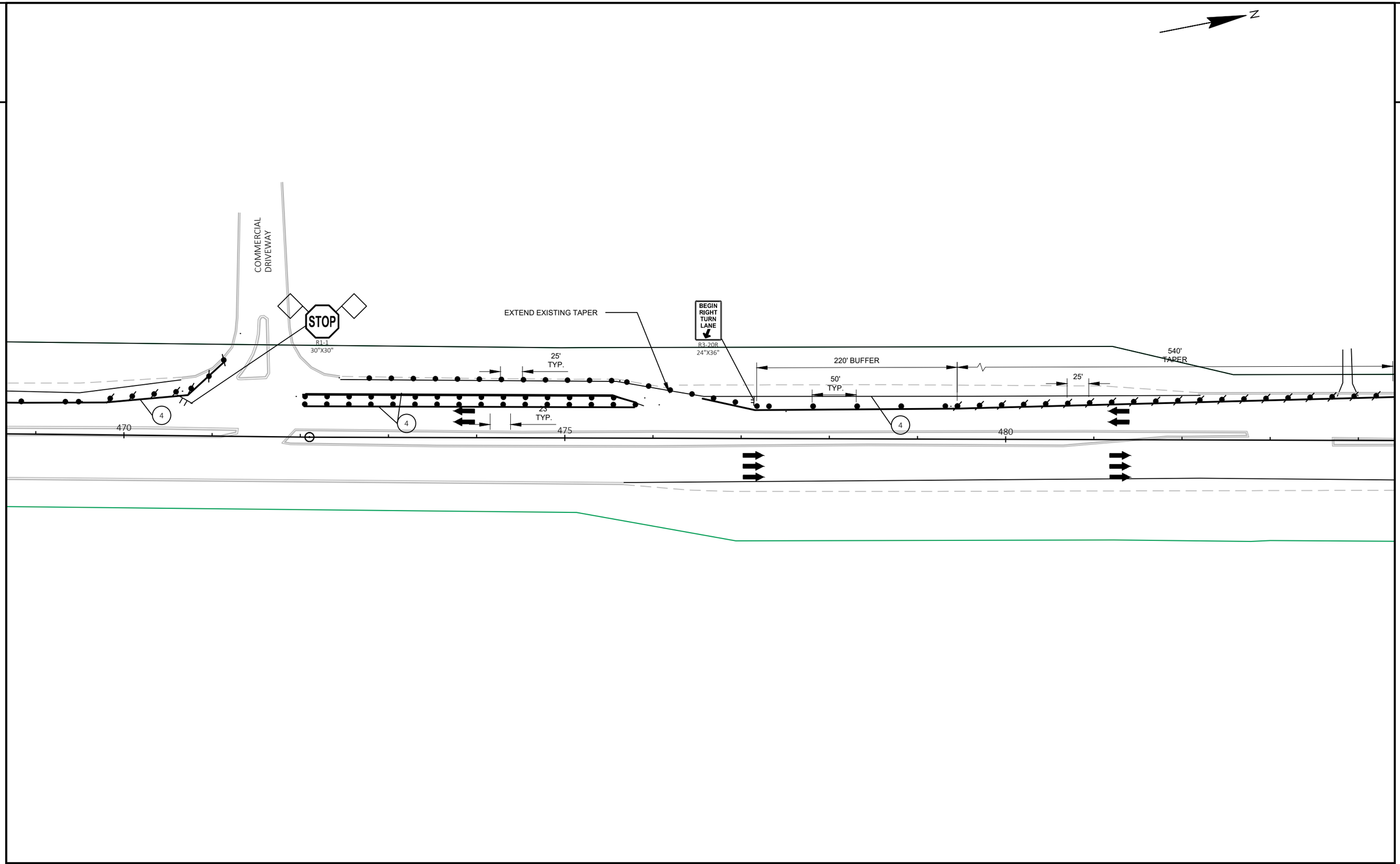
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 153	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - 12

PLOT DATE : 4/29/2022 3:32 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

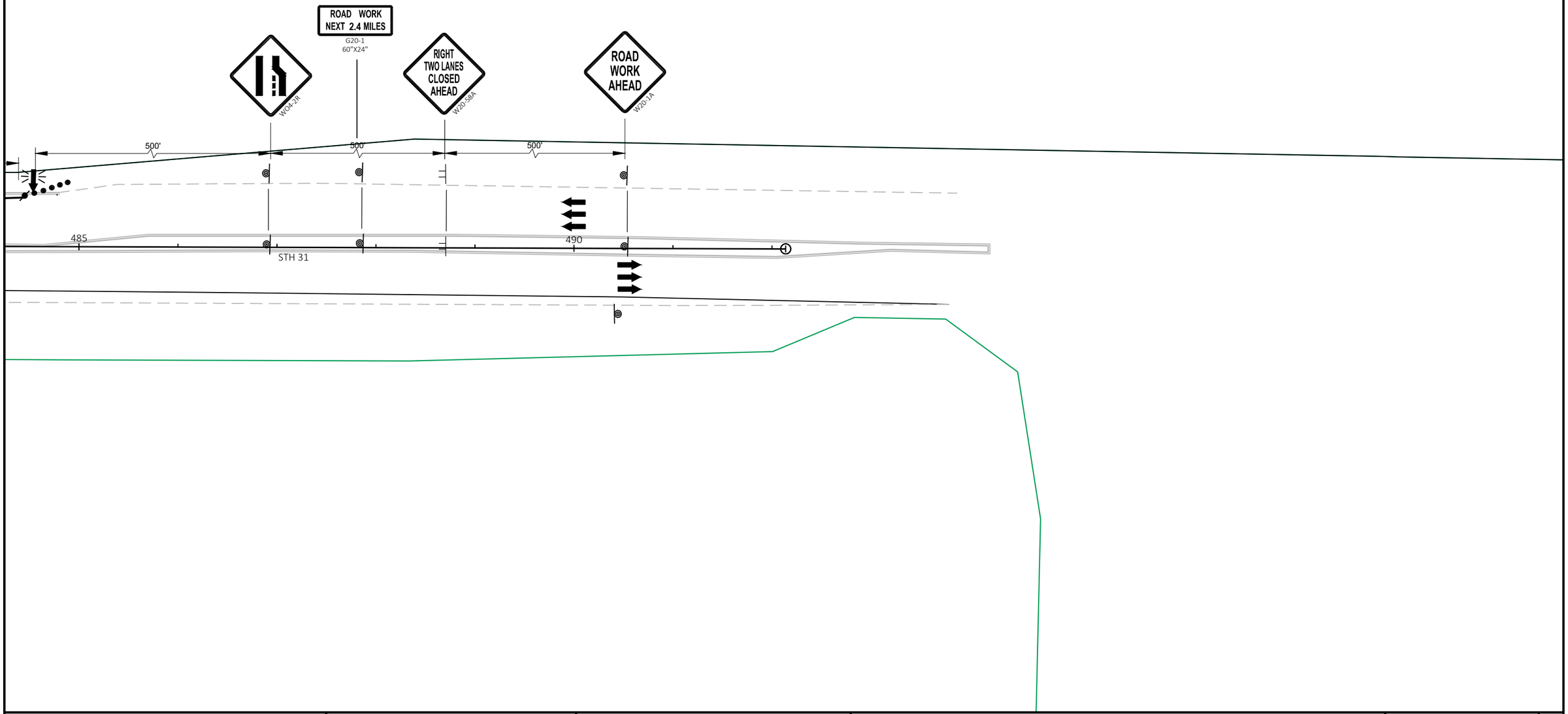


PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 154	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - 13
PLOT DATE : 4/29/2022 3:32 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - LONG TERM SINGLE LANE CLOSURE	SHEET 155	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - STH 31 - 14

PLOT DATE : 4/29/2022 3:32 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

69TH AVE

78TH ST

STH 31

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

280

285

290

25' TYP.

50' TYP.

540' TAPER

1080' TANGENT

PLACE SIGNS ON OUTSIDE AND MEDIAN
OF STH 31.

ROAD WORK AHEAD
W20-1A

RIGHT TWO LANES CLOSED AHEAD
W20-5BA

ROAD WORK NEXT 2.4 MILES
G20-1
60"X24"

W04-2R

500'

500'

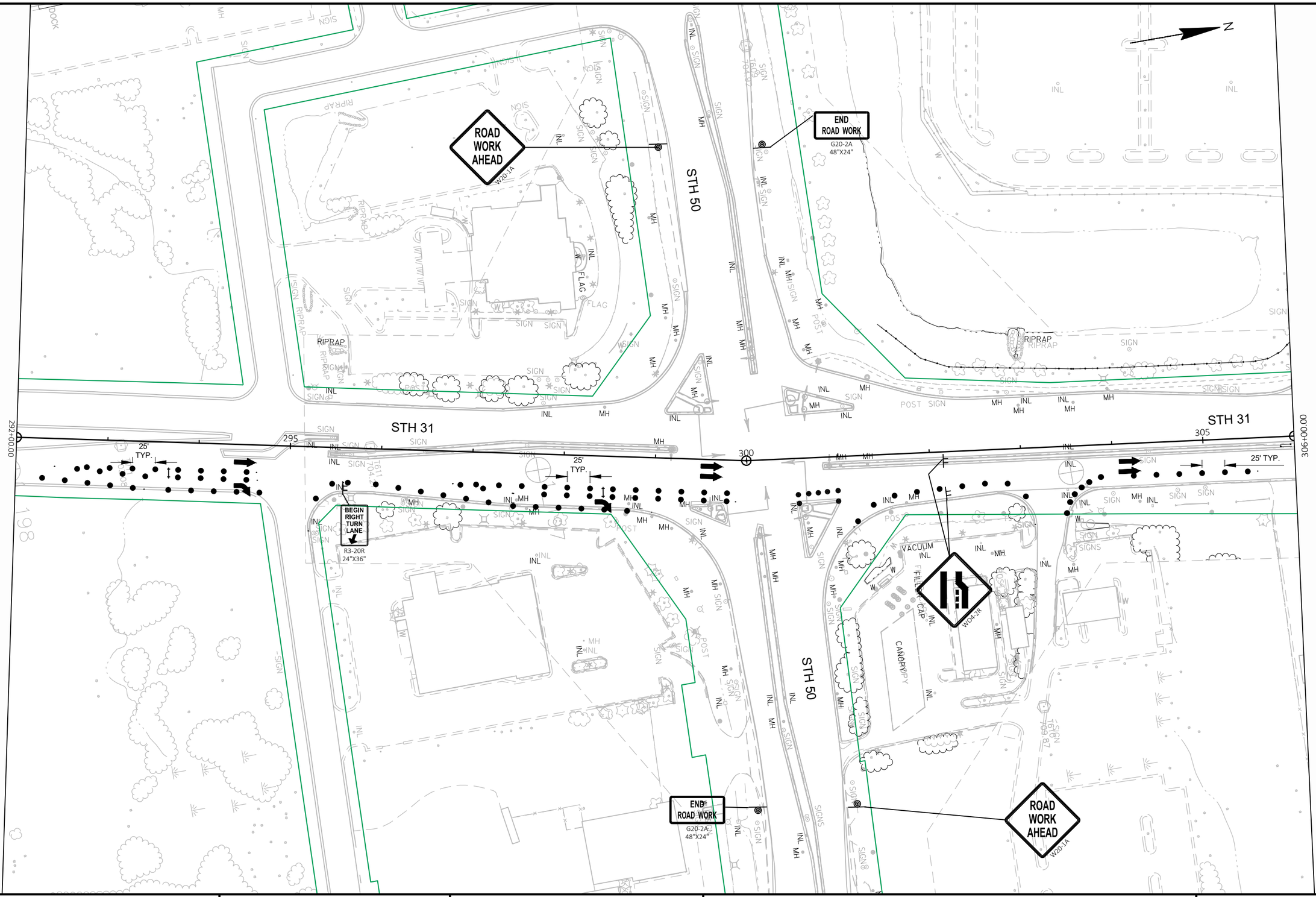
500'

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 156	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (1a)

PLOT DATE : 4/29/2022 3:34 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 157	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (1b)

PLOT DATE : 4/29/2022 3:34 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

BEGIN PROJECT
STA 312+88

BEGIN DIAMOND GRIND
STA 312+88

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
R1-1
30"X30"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STH 31

306+00.00

320+50.00

310

315

320

25' TYP.

50' TYP.

50'

100'

15' TYP.

TAPER LENGTH
540'

BUFFER SPACE
220'

RIGHT OF WAY

195

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 158	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (2)

PLOT DATE : 4/29/2022 3:34 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

REMOVE EXISTING PAVEMENT MARKING (TURKEY TRACKS)

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

67TH STREET

65TH STREET

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STOP
R1-1
30"X30"

SEPC

15' TYP.

25' TYP.

50' TYP.

100'

325

330

STH 31

320+50.00

335+00.00

2

PROJECT NO: 3330-07-70 | HWY: STH 31 | COUNTY: KENOSHA | TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE | SHEET 159 | E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (3)

PLOT DATE : 4/29/2022 3:34 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

335+00.00

350+00.00

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STOP
R1-1
30"X30"

100'

RIGHT OF WAY

50' TYP.

25' TYP.

15' TYP.

340

345

STH 31

64TH STREET

63RD STREET

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

POST

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 160	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (4)

PLOT DATE : 4/29/2022 3:34 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD WORK AHEAD

END ROAD WORK
G20-2A
48"X24"

DIAMOND GRINDING LIMITS (TYP)

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

STOP
R1-1
30"X30"

100'

15' TYP.

25' TYP.

50' TYP.

50' TYP

STH 31

CTH K

CANOPY

A/C

RIGHT OF WAY

ROAD WORK AHEAD
W20-3A

350+00.00

364+50.00

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 161	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (5)

PLOT DATE : 4/29/2022 3:35 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

364+50.00

379+00.00

N

TBM 730.20

ROAD WORK AHEAD W20-1A

55TH STREET

END ROAD WORK G20-2A 48"X24"

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

STOP R1-1 30"X30"

BEGIN RIGHT TURN LANE R3-20R 24"X36"

RIGHT OF WAY

53RD STREET

CANOPY

56TH STREET

365 370 375

50' TYP.

25' TYP.

100'

15' TYP.

11'

SIGN

INL

MH

W

WALLS

FLAG

ANT

POST

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 162	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (6)

PLOT DATE : 4/29/2022 3:35 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

STH 158

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

CANOPY

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

100'

25' TYP.

50' TYP.

15' TYP.

110'

STOP
R1-1
30"X30"

RIGHT OF WAY

50TH STREET

STH 31

379+00.00

380

385

390

394+00.00

U/C

STH 158

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 163	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (7)

PLOT DATE : 4/29/2022 3:35 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
R1-1
30"X30"

394+00.00

408+50.00

STH 31

15' TYP.

INL 395

50' TYP.

400

405

25' TYP.

MH

SIGN

POST

W

11'

100'

MATCH POINT

RIGHT OF WAY

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

46TH STREET

45TH STREET

49TH STREET

1604
20-78

2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 164 E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (8)

PLOT DATE : 4/29/2022 3:35 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

STOP
R1-1
30"X30"

END ROAD WORK
G20-2A
48"X24"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

RIPRAP

100'

100'

MH

INL

SIGN

410

25' TYP.

50' TYP.

STH 31

15' TYP.

415

100'

100'

25'

50' TYP.

420

STH 31

408+50.00

423+50.00

RIGHT OF WAY

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 165	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (9)

PLOT DATE : 4/29/2022 3:35 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

SEE PLAN DETAILS
FOR MATCH POINT TO LOCATE SIGN

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

END DIAMOND GRIND
SOUTBOUND
STA 427+42

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

END PROJECT
STA 437+00

SEE PEDESTRIAN ACCOMMODATIONS SHEET
FOR PEDESTRIAN DETOUR

STOP
R1-1
30"X30"

423+50.00

438+00.00

STH 31

50' TYP.

425

430

435

25' TYP.

CTH S

DRIVING RANGE

MINIATURE
GOLF COURSE

BEGIN
RIGHT
TURN
LANE
R3-20R
24"X36"

END DIAMOND GRIND
NORTHBOUND
STA 426+60

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

RIGHT OF WAY

FLAG

MAX. 500'

RIPRAP

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

SEE PLAN DETAILS
FOR MATCH POINT TO LOCATE SIGN

2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 166	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (10)

PLOT DATE : 4/29/2022 3:36 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

220' BUFFER

540' TAPER

BEGIN RIGHT TURN LANE

R3-20R 24"X36"

RIPRAP

25' TYP.

MH

438+00.00

NL

STH 31

NL

440

50' TYP.

445

SIGN

END ROAD WORK

G20-2A 48"X24"

35TH ST.

STOP

R1-1 30"X30"

25' TYP.

450

STH 31

452+00.00

35TH ST.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 167	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (11)

PLOT DATE : 4/29/2022 3:36 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

31ST ST.

END ROAD WORK
G20-2A
48"X24"

540' MINIMUM TO TAPER

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

W04-2R

STOP
R1-1
30"X30"

25' TYP.

50' TYP.

25' TYP.

25' TYP.

452+00.00

STH 31

455

460

STH 31

END ROAD WORK
G20-2A
48"X24"

31ST ST.

ROAD WORK AHEAD
W20-1A

2

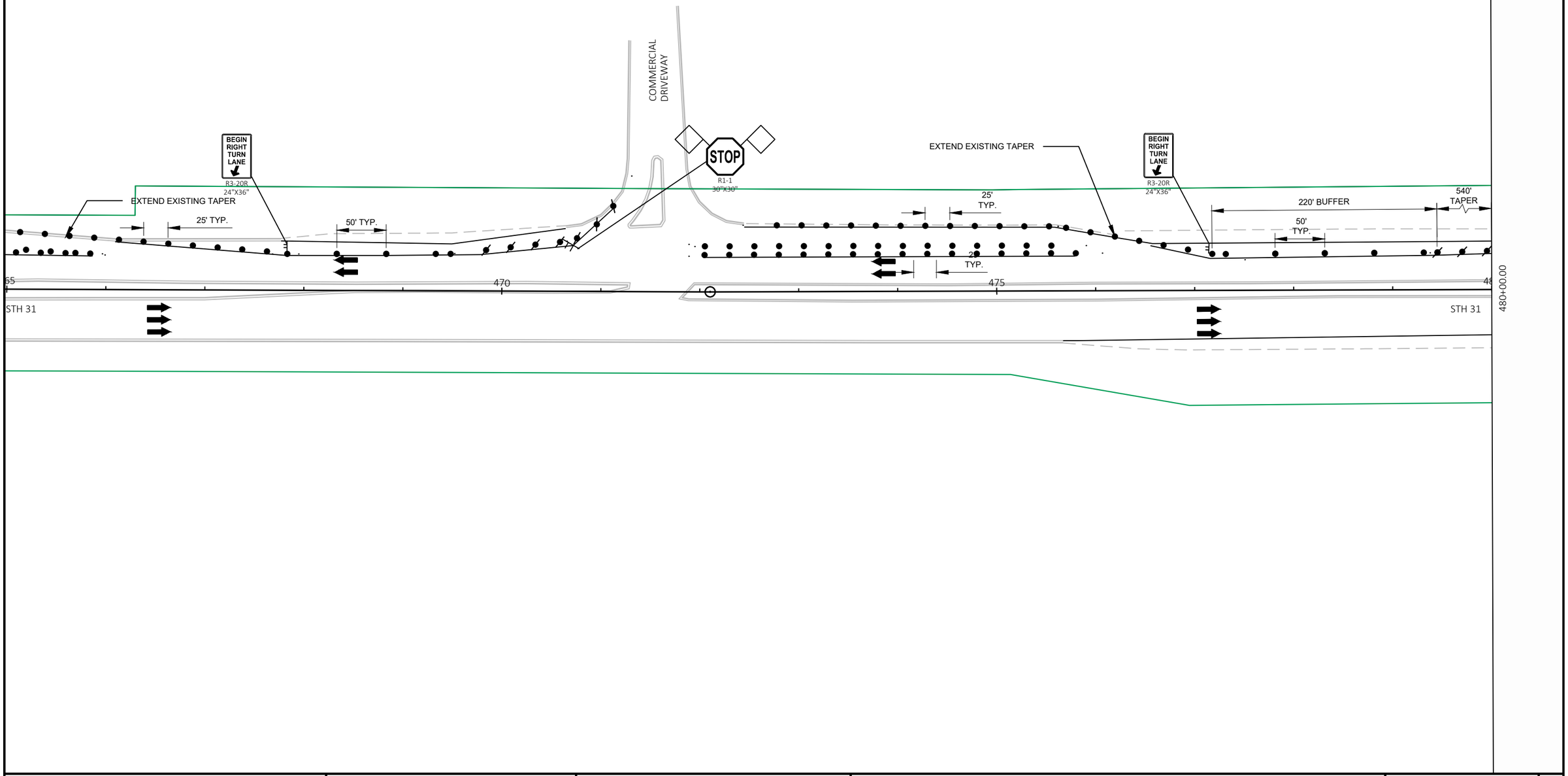
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 168	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (12)

PLOT DATE : 4/29/2022 3:36 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 169	E

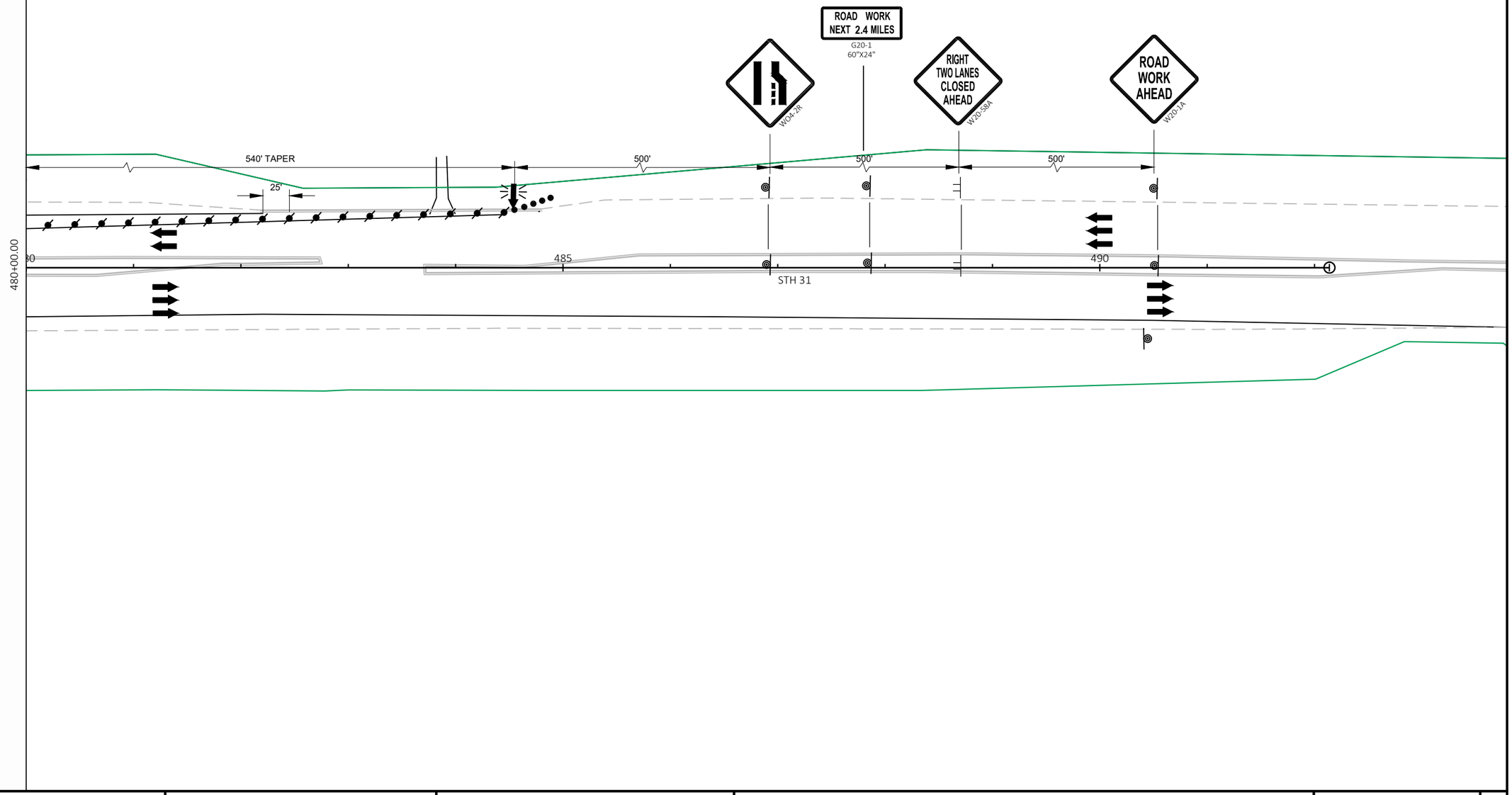
FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (13)

PLOT DATE : 4/29/2022 3:36 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

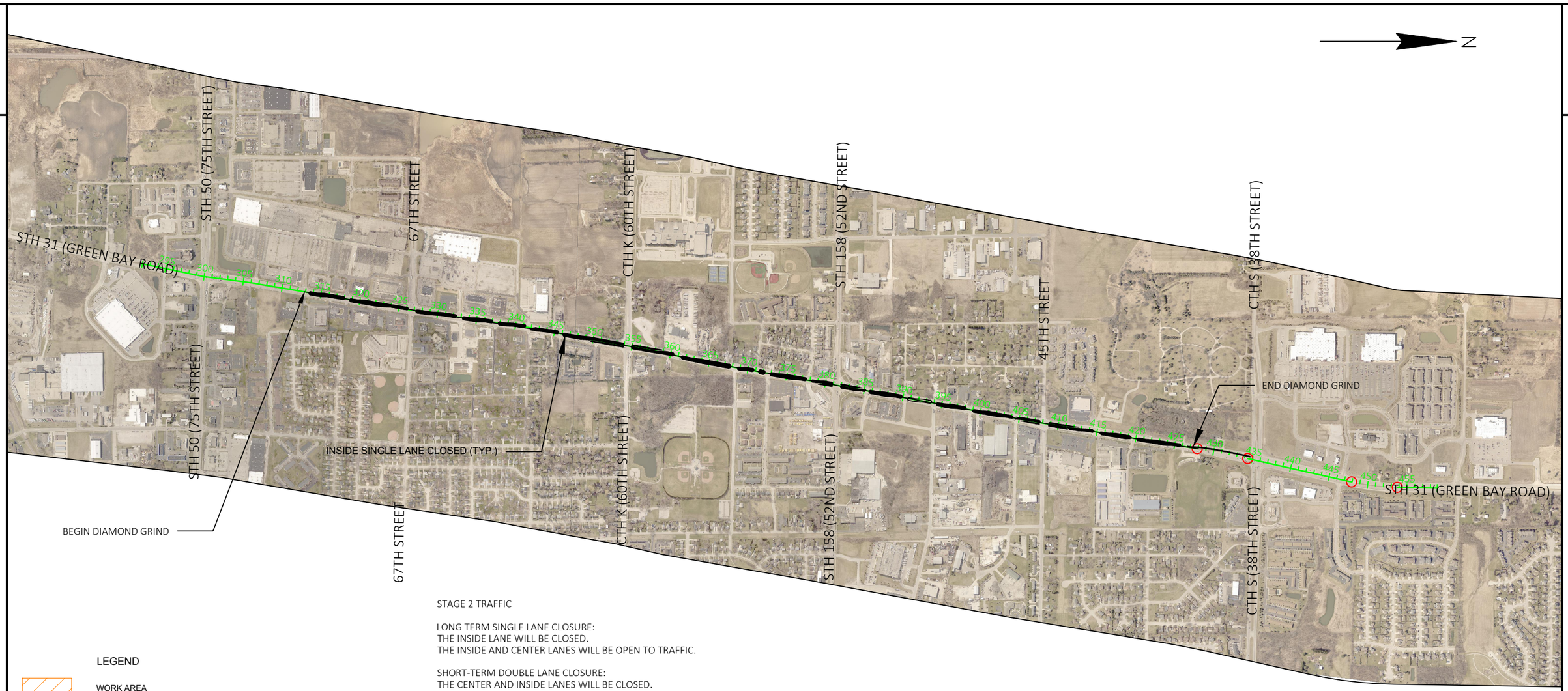
N



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 1 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 170	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025104-TC.DWG
LAYOUT NAME - STH 31 - (14)

PLOT DATE : 4/29/2022 3:36 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT



LEGEND

WORK AREA

STAGE 2 TRAFFIC

LONG TERM SINGLE LANE CLOSURE:
THE INSIDE LANE WILL BE CLOSED.
THE INSIDE AND CENTER LANES WILL BE OPEN TO TRAFFIC.

SHORT-TERM DOUBLE LANE CLOSURE:
THE CENTER AND INSIDE LANES WILL BE CLOSED.
THE OUTSIDE LANE WILL BE OPEN TO TRAFFIC.

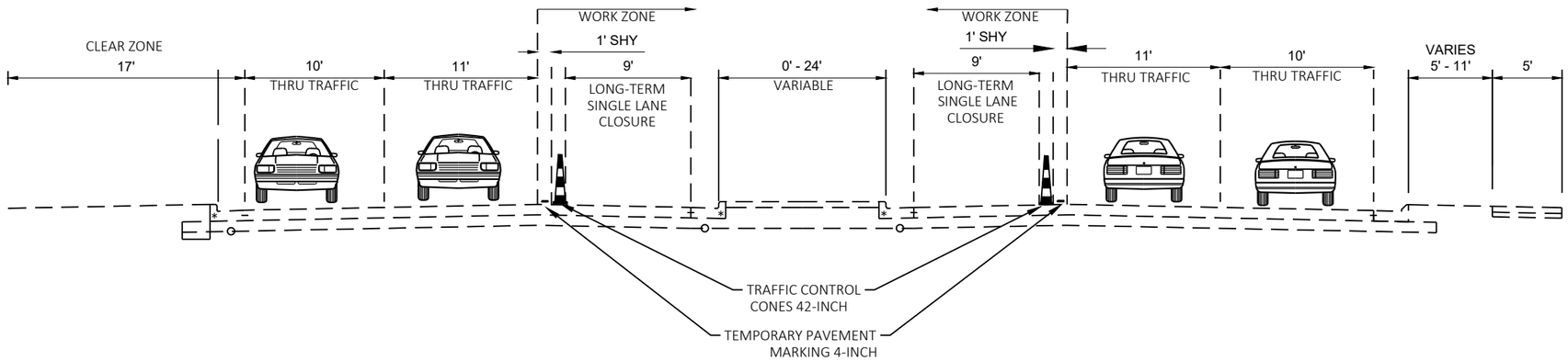
CONSTRUCTION:
INSTALLATION OF TEMPORARY PEDESTRIAN ACCOMMODATIONS
SAWING
REMOVAL AND REPLACEMENT OF MEDIAN CURB RAMPS
REMOVAL AND REPLACEMENT OF SIGNAL EQUIPMENT, INCLUDING LOOP DETECTORS
BASE PATCHING, JOINT AND CRACK REPAIR, DIAMOND GRINDING THE INSIDE LANE, LEFT TURN LANES AND MEDIAN OPENINGS
INSTALLATION OF PERMANENT SIGNING, PAVEMENT MARKING AND LANDSCAPING

FULL-NIGHT TIME CLOSURES ARE ALLOWED FOR SAWING, BASE PATCHING, JOINT AND CRACK REPAIR, AND DIAMOND GRINDING FOR THE CENTER LANE.

EXTENDED HOURS FOR THE DOUBLE LANE CLOSURE WILL BE ALLOWED FOR CURE TIME OF THE CENTER LANE BASE PATCHES.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL OVERVIEW - STAGE 2 - INSIDE SINGLE LANE CLOSURE - LONG TERM	SHEET 171	E

2



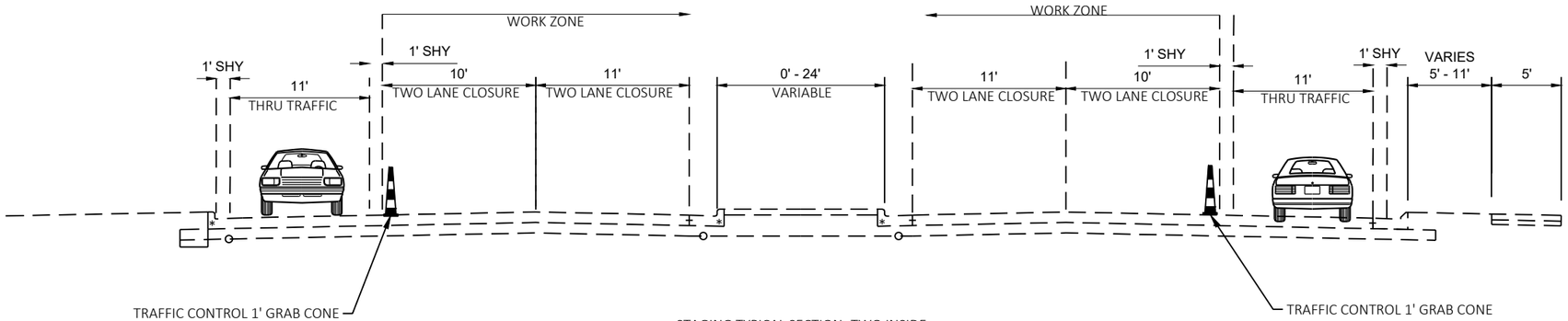
STAGING TYPICAL SECTION- SINGLE INSIDE
LANE CLOSURE - LONG TERM
STH 31 - NORTHBOUND / SOUTHBOUND

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - TYPICAL- STAGE 2 - INSIDE SINGLE LANE CLOSURE - LONG TERM	SHEET 172	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105B-TC.DWG
LAYOUT NAME - Typ1

PLOT DATE : 4/29/2022 3:41 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



STAGING TYPICAL SECTION- TWO INSIDE
LANE CLOSURE - SHORT TERM
STH 31 - NORTHBOUND / SOUTHBOUND

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - TYPICAL- STAGE 2A - TWO INSIDE LANE CLOSURE - SHORT TERM	SHEET 173	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106B-TC.DWG
LAYOUT NAME - Typ2
PLOT DATE : 4/29/2022 3:41 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

2

292+00.00

N

69TH AVE

78TH ST

STH 31

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

WO1-6
48" X 24"

TYPE III BARRICADE

POOL

RIPRAP

SIGN

INL

A/C

280

285

290

5

540' TAPER

1080' TANGENT

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

LEFT TWO LANES CLOSED AHEAD
W20-5SA

ROAD WORK NEXT 2.4 MILES
G20-1
60"X24"

W004-2R

PLACE ADVANCED WARNING SIGNS ON MEDIAN AND OUTSIDE OF STH 31.

500'

500'

500'

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 174	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (1a)

PLOT DATE : 4/29/2022 3:43 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

W01-6
48" X 24"

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

STH 50

STH 31

306+00.00

292+00.00

295

300

305

BEGIN LEFT TURN LANE
R3-20L
24"X36"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

W04-2R

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

25' TYP.

RIPRAP

FLAG

VACUUM

FILLER CAP

CANOPY

POST

SIGN

INL

MH

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 175	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (1b)

PLOT DATE : 4/29/2022 3:43 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

320+50.00

306+00.00

N

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

BEGIN PROJECT
STA 312+88

BEGIN DIAMOND GRIND
STA 312+88

BEGIN LEFT TURN LANE
R3-20L
24"X36"

81' TURN BAY

100' TAPER

CANOPY

SIGN POST

85' TURN BAY

RIGHT OF WAY

STH 31

25' TYP.

50' TYP.

310

315

320

11'

10'

15' TYP.

200' TURN BAY

WO1-6
48" X 24"

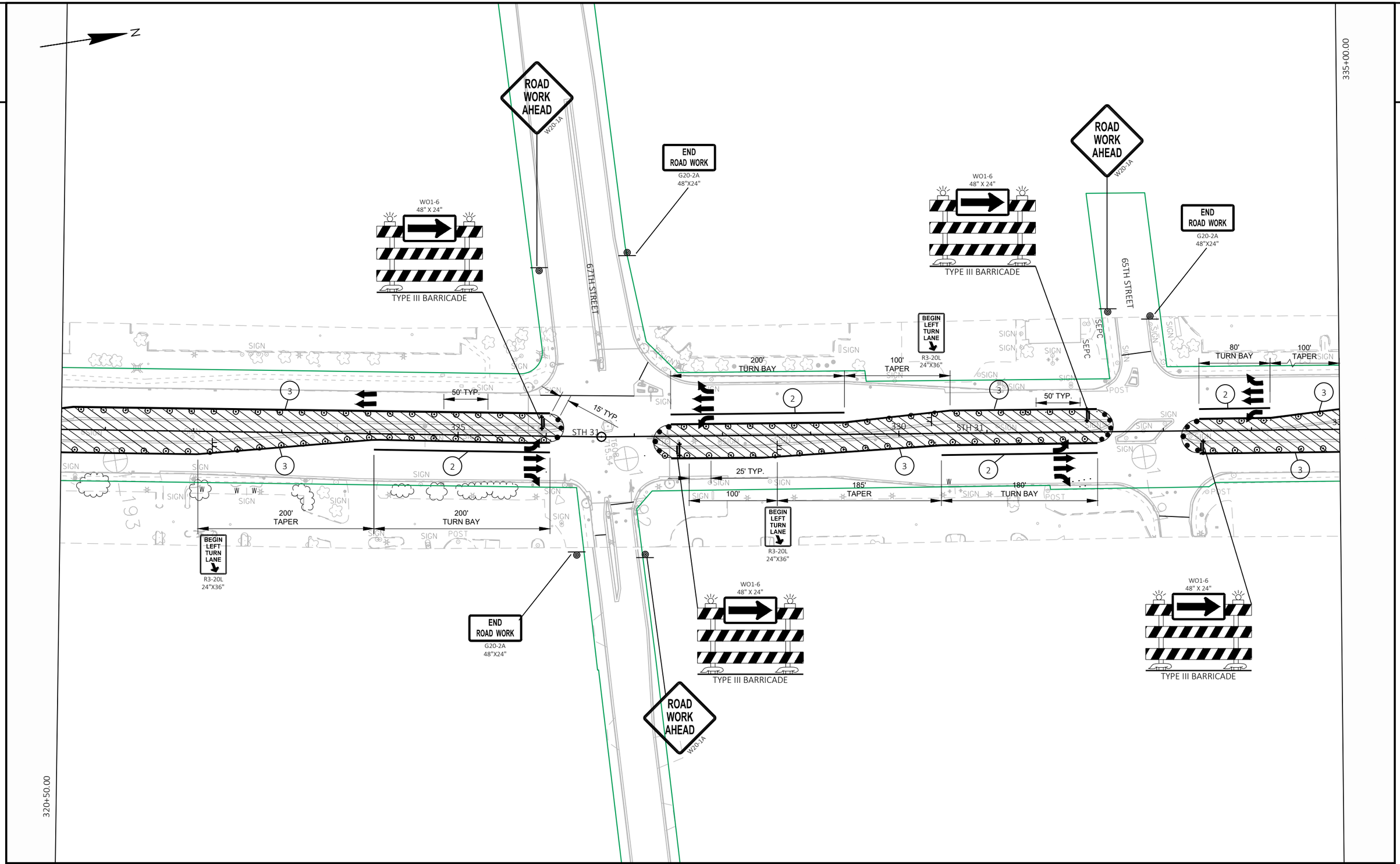
TYPE III BARRICADE

NOTES:
SEE SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 176	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (2)

PLOT DATE : 4/29/2022 3:43 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 177	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (3)
PLOT DATE : 4/29/2022 3:43 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

350+00.00

335+00.00

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

80'
TURN BAY

100'
TAPER

340

15' TYP.

STH 31

3

2

100'
TAPER

85'
TURN BAY

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END
ROAD WORK
G20-2A
48"X24"

ROAD
WORK
AHEAD
W20-1A

64TH STREET

120'
TAPER

150'
TURN BAY

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

END
ROAD WORK
G20-2A
48"X24"

63RD STREET

50'
TURN
BAY

165'
TAPER

345

BEGIN LEFT TURN LANE
R3-20L
24"X36"

170'
TAPER

115'
TURN BAY

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ROAD
WORK
AHEAD
W20-1A

RIGHT OF WAY

165'
TURN BAY

155'
TAPER

BEGIN LEFT TURN LANE
R3-20L
24"X36"

50' TYP.

POST

225'
TAPER

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

SIGN

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 178	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (4)

PLOT DATE : 4/29/2022 3:43 PM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

2

2

364+50.00

350+00.00

N

ROAD WORK AHEAD

W20-1A

END ROAD WORK

G20-2A
48"X24"

WO1-6
48" X 24"

TYPE III BARRICADE

CTH K

STH 31

50' TYP.

25' TYP.

15' TYP.

225' TAPER

300' TURN BAY

285' TURN BAY

150' TAPER

BEGIN LEFT TURN LANE

R3-20L
24"X36"

100' TAPER

112' TURN BAY

200' TURN BAY

160' TAPER

RIGHT OF WAY

CANOPY

A/C

POST

SIGN

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 179	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (5)

PLOT DATE : 4/29/2022 3:43 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

379+00.00

364+50.00

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

55TH STREET

56TH STREET

53RD STREET

RIGHT OF WAY

100' TAPER

80' TURN BAY

120' TAPER

50' TURN BAY

50' TYP.

100' TAPER

85' TURN BAY

WALLS

FLAG

ANT

CANOPY

POST

SIGN

365

370

375

T801
7530.20

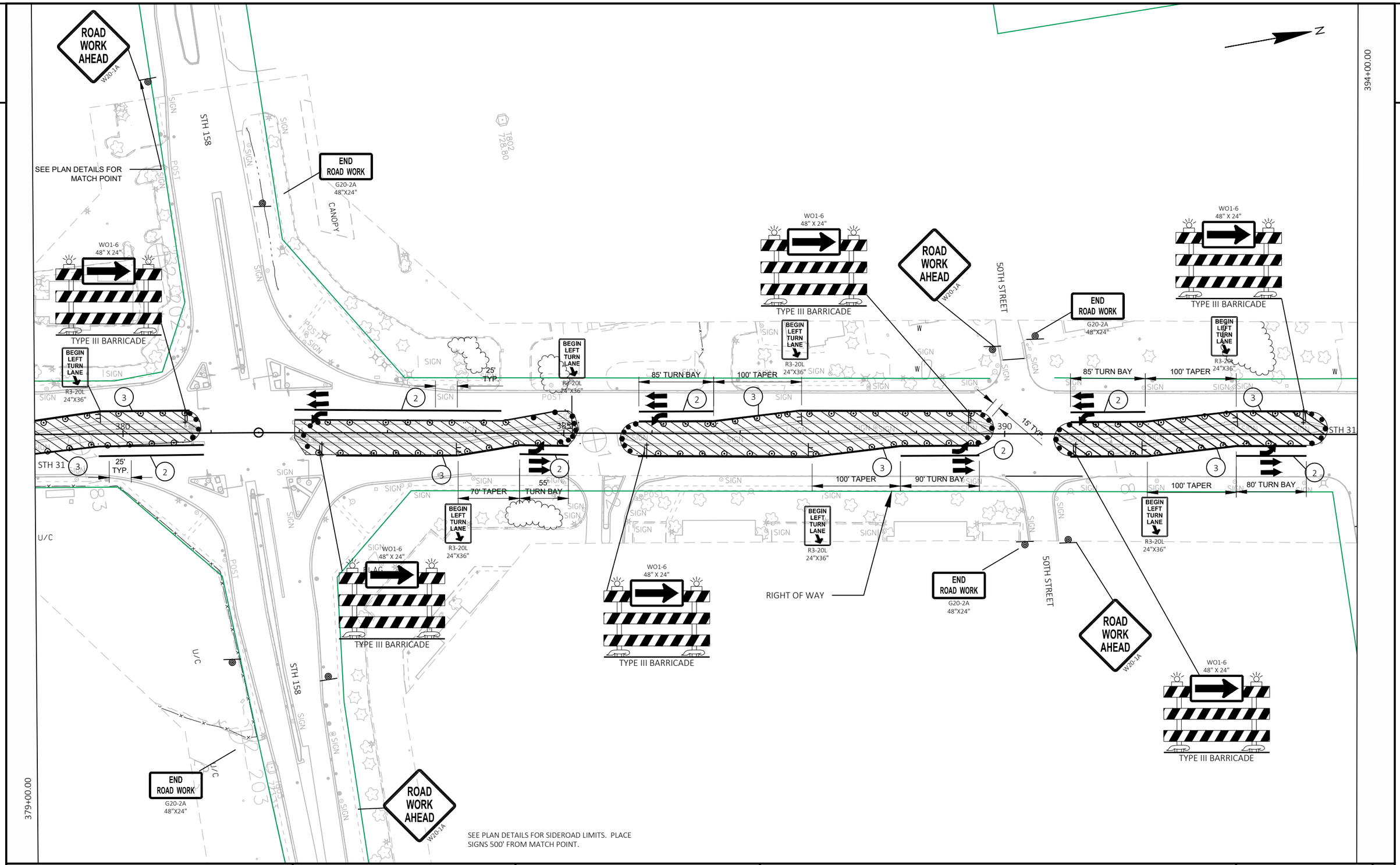
N

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 180	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (6)

PLOT DATE : 4/29/2022 3:44 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



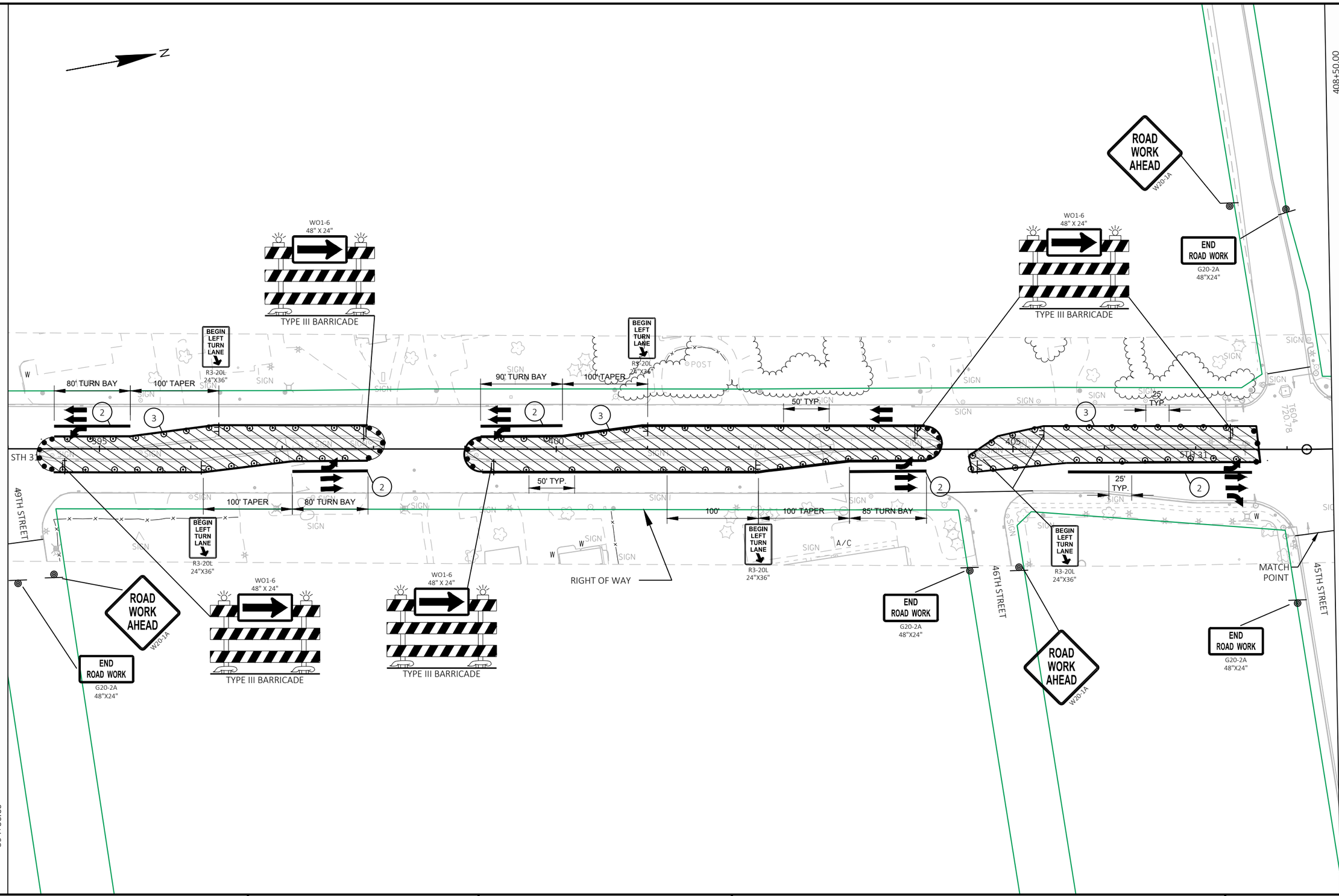
SEE PLAN DETAILS FOR SIDEROAD LIMITS. PLACE SIGNS 500' FROM MATCH POINT.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 181	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (7)

PLOT DATE : 4/29/2022 3:44 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 182	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (8)

PLOT DATE : 4/29/2022 3:44 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

N

423+50.00

408+50.00

ROAD WORK AHEAD
W20-1A

WO1-6
48" X 24"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

RIPRAP

185' TURN BAY

220' TAPER

95' TURN BAY

100' TAPER

100' TURN BAY

130' TAPER

100'

50' TYP.

100' TAPER

85' TURN BAY

15' TYP.

400

415

420

STH 31

RIGHT OF WAY

SIGN

POST

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 183	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (9)
PLOT DATE : 4/29/2022 3:44 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1A

CTH S

N

438+00.00

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

MAX 500'

END PROJECT
STA 437+00

BEGIN LEFT TURN LANE
R3-20L
24" X36

55'
TURN BAY

125' TAPER

50' TYP.

STH 31

425

430

435

STH 31

100' TAPER

85' TURN BAY

DRIVING RANGE

MINIATURE GOLF COURSE

END DIAMOND GRIND
SOUTBOUND
STA 427+42

END DIAMOND GRIND
NORTHBOUND
STA 426+60

RIPRAP

RIGHT OF WAY

FLAG

END ROAD WORK
G20-2A
48"X24"

MAX 500'

CTH S

ROAD WORK AHEAD
W20-1A

RIPRAP

423+50.00

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 184	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (10)

PLOT DATE : 4/29/2022 3:44 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

452+00.00

35TH ST.

WO1-6
48" X 24"

TYPE III BARRICADE

RIPRAP

4

25' TYP.

5

25' TYP.

50' TYP.

445

440

STH 31

SIGN

601
24.73

BEGIN
LEFT
TURN
LANE

R3-20L
24"X36"

END
ROAD WORK

G20-2A
48"X24"

4

25' TYP.

5

50' TYP.

450

STH 31

BEGIN
LEFT
TURN
LANE

R3-20L
24"X36"

35TH ST.

438+00.00

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 185	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (11)

PLOT DATE : 4/29/2022 3:44 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

31ST ST.

5

455

460

STH 31

STH 31

31ST ST.

452+00.00

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 186	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (12)

PLOT DATE : 4/29/2022 3:44 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

480+00.00

WO1-6
48" X 24"

TYPE III BARRICADE

220' BUFFER

540' TAPER

50' TYP.

50' TYP.

50' TYP.

5

5

65

470

475

STH 31

STH 31

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 187	E

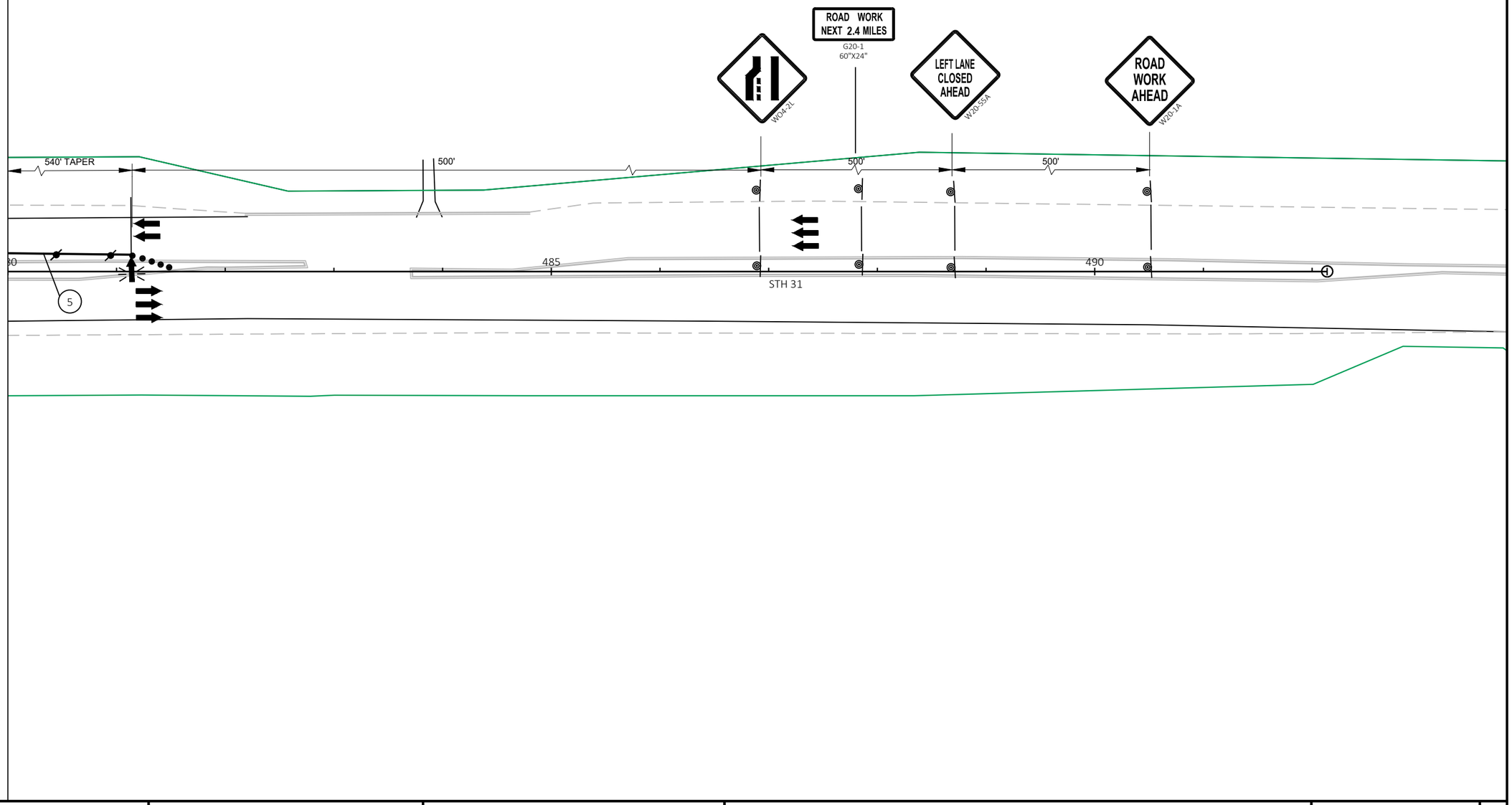
FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (13)

PLOT DATE : 4/29/2022 3:45 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - LONG TERM SINGLE LANE CLOSURE	SHEET 188	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025105-TC.DWG
LAYOUT NAME - STH 31 - (14)

PLOT DATE : 4/29/2022 3:45 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

69TH AVE

78TH ST

STH 31

ROAD WORK AHEAD
W20-1A

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

280
285
290
292+00.00

540' TAPER

1080' TANGENT

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

LEFT TWO LANES CLOSED AHEAD
W20-59A

ROAD WORK NEXT 2.4 MILES
G20-1
60"X24"

W004-2R

500'
500'
500'

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 189	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (1a)

PLOT DATE : 4/29/2022 3:47 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

WO1-6
48" X 24"

TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

STH 50

STH 31

292+00.00

306+00.00

295

300

305

BEGIN LEFT TURN LANE
R3-20L
24"X36"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO4-2R

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

25' TYP.

240' TAPER

RIPRAP

VACUUM FILLER CAP

CANOPY

POST

SIGN

INL

MH

FLAG

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 190	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (1b)

PLOT DATE : 4/29/2022 3:47 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

END ROAD WORK
G20-2A
48"X24"

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

BEGIN PROJECT
STA 312+88

BEGIN DIAMOND GRIND
STA 312+88

RIGHT OF WAY

STH 31

25' TYP.

50' TYP.

50' TYP.

90'
TURN
BAY

100'
TAPER

100'

CANOPY

SIGN POST

85'
TURN
BAY

100'
TAPER

310

315

320

306+00.00

320+50.00

12'

11'

15' TYP.

100'
TAPER

200'
TURN BAY

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

TAPER LENGTH
495'

BUFFER SPACE
220'

195

3

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 191	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (2)

PLOT DATE : 4/29/2022 3:47 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1A

WO1-6
48" X 24"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

67TH STREET

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

65TH STREET

END ROAD WORK
G20-2A
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

200' TURN BAY
100' TAPER
100'
50' TYP.
80' TURN BAY
100' TAPER

320+50.00

335+00.00

STH 31

325

330

15' TYP.

25' TYP.

25' TYP.

100'
180' TAPER
200' TURN BAY

100'
185' TAPER
180' TURN BAY

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END ROAD WORK
G20-2A
48"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 192	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (3)

PLOT DATE : 4/29/2022 3:47 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

335+00.00

350+00.00

STH 31

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

80' TURN BAY
100' TAPER
100'
25' TYP.
340

75' TURN BAY
165' TAPER
345

RIGHT OF WAY
165' TURN BAY
155' TAPER
50' TYP.
W 320' TAPER

100' TAPER
85' TURN BAY

120' TAPER
90' TURN BAY
75' TAPER

160' TAPER
115' TURN BAY

END ROAD WORK
G20-2A
48"X24"

64TH STREET
63RD STREET

ROAD WORK AHEAD
W20-1A

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 193	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (4)

PLOT DATE : 4/29/2022 3:47 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD WORK AHEAD

END ROAD WORK
G20-2A
48"X24"

CTH K

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

MATCH EXISTING TAPER AND TURN BAY

200' TURN BAY
160' TAPER
25' TYP.
50' TYP.
25' TYP.
100' TAPER
100'
112' TURN BAY
RIGHT OF WAY

350+00.00

364+50.00

STH 31

MATCH EXISTING TAPER AND TURN BAY

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48" X 24"
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

CTH K

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 194	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (5)

PLOT DATE : 4/29/2022 3:47 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

TBD 7930.20

WO1-6 48" X 24"
TYPE III BARRICADE
ROAD WORK AHEAD W20-1A
END ROAD WORK G20-2A 48"X24"
BEGIN LEFT TURN LANE R3-20L 24"X36"
55TH STREET
53RD STREET
56TH STREET
RIGHT OF WAY
100' TAPER
65' TURN BAY
80' TURN BAY
120' TAPER
100' TAPER
85' TURN BAY
50' TURN LANE
50' TYP.
25' TYP.
100'
365
370
375
364+50.00
379+00.00
WALLS
FLAG
ANT
CANOPY
POST
INL
MH
SIGN
W

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 195	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (6)
PLOT DATE : 4/29/2022 3:48 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

ROAD WORK AHEAD W20-1A

SEE PLAN DETAILS FOR SIDEROAD LIMITS. PLACE SIGNS 500' FROM MATCH POINT.

END ROAD WORK G20-2A 48"X24"

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

WO1-6 48" X 24"

TYPE III BARRICADE

BEGIN LEFT TURN LANE R3-20L 24"X36"

MATCH EXISTING TURN BAY AND TAPER

25' TYP.

25'

100'

70' TAPER

55' TURN BAY

50' TYP.

85' TURN BAY

100' TAPER

100'

90' TURN BAY

80' TURN BAY

15' TYP.

50TH STREET

STH 158

STH 31

RIGHT OF WAY

379+00.00

394+00.00

N

SIGN

MH

INL

POST

U/C

W

HW

AC

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 196	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (7)

PLOT DATE : 4/29/2022 3:48 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

MAX 500'

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

394+00.00

408+50.00

STH 31

80' TURN BAY
100' TAPER
100'
25' TYP.
90' TURN BAY
50' TYP.
85' TURN BAY
A/C
MH
INL
SIGN
W
POST

395
400
405

RIGHT OF WAY

49TH STREET
46TH STREET
45TH STREET

MATCH POINT

1604
120-78

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 197	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (8)

PLOT DATE : 4/29/2022 3:48 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END ROAD WORK
G20-2A
48"X24"

MATCH EXISTING TURN BAY AND TAPER

95' TURN BAY
100' TAPER
100'
25' TYP.

100' TURN BAY
130' TAPER
100'

50' TYP.

100'
100' TAPER
85' TURN BAY

RIGHT OF WAY

RIPRAP
25' TYP.
15' TYP.

408+50.00
423+50.00
410
415
420
STH 31

SIGN
INL
MH
POST

PROJECT NO: 3330-07-70 | HWY: STH 31 | COUNTY: KENOSHA | TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE | SHEET 198 | E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (9)
PLOT DATE : 4/29/2022 3:48 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

END DIAMOND GRIND
SOUTBOUND
STA 427+42

WO1-6
48" X 24"

TYPE III BARRICADE

BEGIN
LEFT
TURN
LANE

R3-20L
24"X36"

55'
TURN BAY

125' TAPER

100'

26' TYP.

50' TYP

425

430

435

423+50.00

438+00.00

STH 31

100' TAPER

85' TURN BAY

BEGIN
LEFT
TURN
LANE

R3-20L
24"X36"

DRIVING RANGE

MINIATURE
GOLF COURSE

END DIAMOND GRIND
NORTHBOUND
STA 426+60

ROAD
WORK
AHEAD

W20-1A

WO1-6
48" X 24"

TYPE III BARRICADE

CTH S

MAX 500'

END
ROAD WORK

G20-2A
48"X24"

END PROJECT
STA 437+00

SEE SIDEROAD INSIDE/OUTSIDE LANE CLOSURE SHEETS

RIGHT OF WAY

FLAG

MAX 500'

CTH S

END
ROAD WORK

G20-2A
48"X24"

ROAD
WORK
AHEAD

W20-1A

RIPRAP

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 199	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (10)

PLOT DATE : 4/29/2022 3:48 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

WO1-6
48" X 24"

TYPE III BARRICADE

35TH ST.

END
ROAD WORK
G20-2A
48"X24"

RIPRAP

MH

25' TYP.

25' TYP.

25' TYP.

25' TYP.

438+00.00

NL

STH 31

440

445

450

452+00.00

BEGIN
LEFT
TURN
LANE
R3-20L
24"X36"

BEGIN
LEFT
TURN
LANE
R3-20L
24"X36"

SIGN

35TH ST.

END
ROAD WORK
G20-2A
48"X24"

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 200	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (11)

PLOT DATE : 4/29/2022 3:48 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

31ST ST.

END ROAD WORK
G20-2A
48"X24"

4

452+00.00
STH 31
455
460
STH 31

220' BUFFER
540' TAPER

31ST ST.

2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 201	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (12)

PLOT DATE : 4/29/2022 3:48 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

WO1-6
48" X 24"

TYPE III BARRICADE

END
ROAD WORK
G20-2A
48"X24"

220' BUFFER

540' TAPER

50' TYP.

50' TYP.

50' TYP.

5

5

465

470

475

480+00.00

STH 31

STH 31

WO4-2R

R11-2L
48" X 30"

LANE
CLOSED

TYPE III BARRICADE

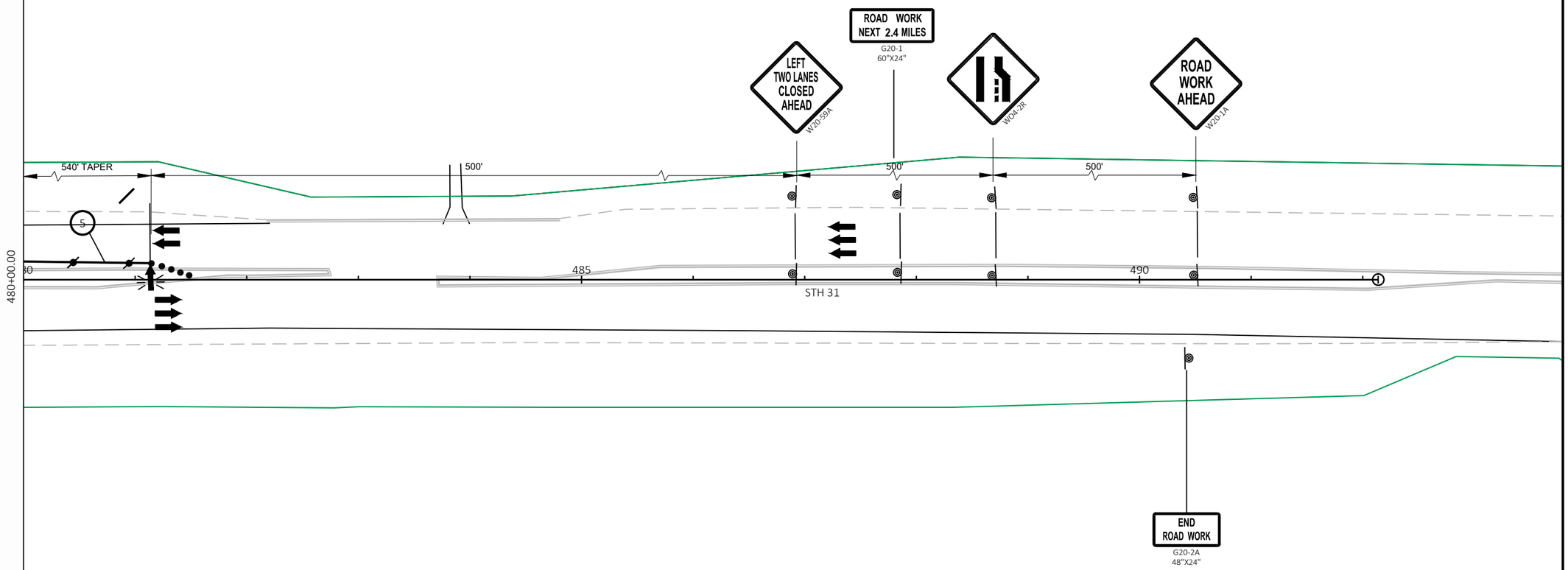
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 202	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (13)

PLOT DATE : 4/29/2022 3:49 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

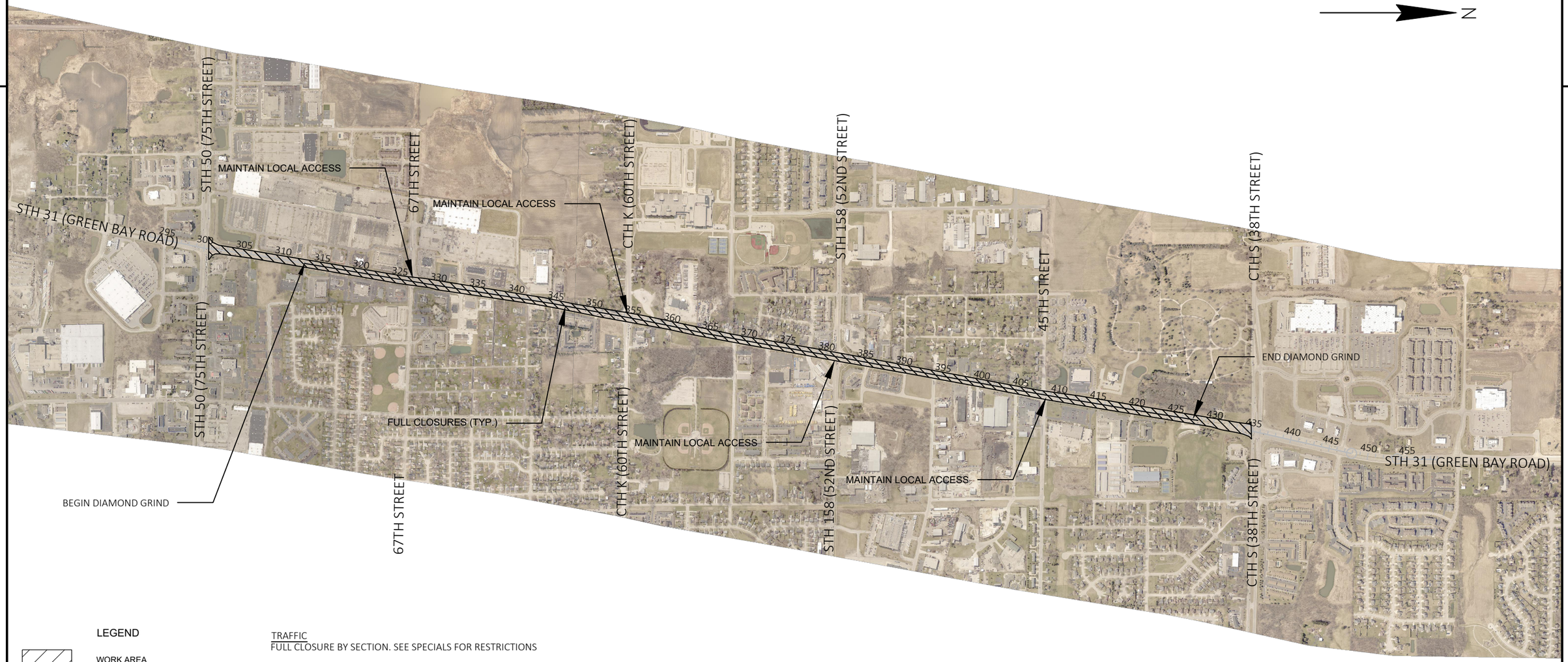


PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - STAGE 2 - SHORT TERM DOUBLE LANE CLOSURE	SHEET 203	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC.DWG
LAYOUT NAME - STH 31 - (14)

PLOT DATE : 4/29/2022 3:49 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

WORK AREA

TRAFFIC
FULL CLOSURE BY SECTION. SEE SPECIALS FOR RESTRICTIONS

CONSTRUCTION
MIDDLE LANE SHES BASE PATCHING AND INTERSECTION SHES BASE PATCHING
MIDDLE LANE DIAMOND GRINDING

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL OVERVIEW - FULL CLOSURE	SHEET 204	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107A-TC.DWG
LAYOUT NAME - PO
PLOT DATE : 4/29/2022 3:52 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

FRAME 1	FRAME 2	
WIS 31 CLOSED AHEAD	FOLLOW DETOUR ROUTE	NIGHTTIME MESSAGE
FRAME 1	FRAME 2	
WIS 31 NB CLOSED	XX:XX PM TO XX:XX AM	DAYTIME MESSAGE
FRAME 1	FRAME 2	
WIS 31 NB CLOSED	NIGHTS STARTING XXXXDAY	ADVANCE WARNING MESSAGE (PLACE 7 MIN. 7 DAYS PRIOR TO FIRST CLOSURE)

1000' OR AS DIRECTED BY THE ENGINEER
500'
ROAD CLOSED AHEAD W20-3A
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED 500 FT W20-3D
NORTH M3-1 24"X12"
31 M1-6 24"X24"
R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE
R11-2 48" X 30"
ROAD CLOSED
SEE SDD BARRICADES AND SIGNS FOR VARIOUS CLOSURES
STH 50
STH 31
LEFT LANE MUST TURN LEFT R3-7L 30"X30"
RIGHT LANE MUST TURN RIGHT R3-7R 30"X30"
R3-2 24"X24"
R3-1 24"X24"
M4-9L 30"X24"
DETOUR
WO12-1D 48"X48"
MB
500'
PLACE AT LAST INTERSECTION PRIOR TO CLOSURE
NOTE: SEE DETOUR PLANS FOR ADDITIONAL INFORMATION
SEE SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR 74TH ST SIGNING
RIPRAP
FLAG
VACUUM FILLER CAP
CANOPY
292+00.00
295
300
305

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 205	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - STH50_S1
PLOT DATE : 4/29/2022 3:55 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

R3-2
24"X24"

R3-1
24"X24"

67TH STREET

500'

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

330

325

500'

67TH STREET

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 206	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 67th_2_S1

PLOT DATE : 4/29/2022 3:55 PM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-2
24"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

67TH STREET

R3-1
24"X24"

500'

R3-1
24"X24"

500'

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED 500 FT
W20-3D

70TH CT

PLACE AT THE INTERSECTION
OF 70TH CT AND 74TH PL.

R11-3
60" X 30"
ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

PLACE ON 74TH PLACE AFTER
INTERSECTION OF 70TH AVE.

ROAD CLOSED AHEAD
W20-3A

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 207	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 67th_1_S1

PLOT DATE : 4/29/2022 3:55 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

62ND AVE

61ST AVE

60TH AVE

59TH AVE

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

500'

500'

67TH STREET

67TH STREET

R3-1
24"X24"

R3-1
24"X24"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-3
60" X 30"
ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 208	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 67th_3_S1

PLOT DATE : 4/29/2022 3:55 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

67TH STREET

500'

500'

200'

ROAD CLOSED 1000 FT
W20-3C

31
M1-6
24"X24"

ROAD CLOSED 500 FT
W20-3D

31
M1-6
24"X24"

RIGHT LANE CLOSED AHEAD
W20-5A

70TH CT

PLACE AT THE INTERSECTION OF 70TH CT AND 74TH PL.

R11-3
60" X 30"

ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

PLACE ON 74TH PLACE AFTER INTERSECTION OF 70TH AVE.

ROAD CLOSED AHEAD
W20-3A

31
M1-6
24"X24"

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 209	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 67th_1_S2

PLOT DATE : 4/29/2022 3:55 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

67TH STREET

200'
200'
125' TAPER
180'
55'
BUFFER

WO4-2R

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2
24"X24"

R3-1
24"X24"

330

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

ROAD CLOSED 500 FT
W20-3D

31
M1-6
24"X24"

W24-2L

LEFT LANE CLOSED AHEAD
W20-5SA

200'
55'
125' TAPER
50'
150'
200'
200'

67TH STREET

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 210	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 67th_2_S2

PLOT DATE : 4/29/2022 3:55 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

62ND AVE

61ST AVE

60TH AVE

59TH AVE

ROAD WORK AHEAD
W20-1A

200'

ROAD CLOSED 1000 FT
W20-3C

31
M1-6
24"X24"

ROAD CLOSED AHEAD
W20-3A

31
M1-6
24"X24"

67TH STREET

67TH STREET

R11-3
60" X 30"
ROAD CLOSED
0.3 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 211	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 67th_3_S2

PLOT DATE : 4/29/2022 3:55 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

PLACE AT THE INTERSECTION
OF CTH K AND 80TH AVE.

R11-3
60" X 30"



TYPE III BARRICADE

PLACE AT THE INTERSECTION
OF CTH K AND 68TH AVE, CTH K
AND INDIAN TRAIL HIGH SCHOOL
ENTRANCE, CTH K AND 77TH
AVE.,AND CTH K AND 82ND AVE.

R11-2
48" X 30"



TYPE III BARRICADE



R3-2
24"X24"

INDIAN TRAIL HIGH
SCHOOL ENTRANCE

CTH K

PLACE AT 94TH CT AND CTH K OR
AS DETERMINED BY THE ENGINEER



W20-3A

500'



W20-3C

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 212	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHK_1_S1

PLOT DATE : 4/29/2022 3:56 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

CTH K

CTH K

STH 31

500'

500'

500'

ROAD CLOSED 500 FT
W20-3D

FLAG

MAINTAIN ACCESS TO DRIVEWAYS

CANOPY

POST A/C POST

A/C

A/C

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 213	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHK_2_S1

PLOT DATE : 4/29/2022 3:56 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD CLOSED 500 FT
W20-3D

PARK AVE

500'

500'

ROAD CLOSED 1000 FT
W20-3C

56TH AVE

T706
720.05

CTH K

R3-1
24"X24"

PLACE AT THE INTERSECTION OF CTH K AND PARK ROAD, CTH K AND 59TH AVE, CTH K AND 56TH AVE.,AND CTH K AND 54TH AVE.

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

60TH AVE

R3-2
24"X24"

59TH AVE

R3-2
24"X24"

CTH K

R11-3
60" X 30"

ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

PLACE AT 51ST AVE AND CTH K

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 214	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHK_3_S1

PLOT DATE : 4/29/2022 3:56 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

PLACE AT THE INTERSECTION
OF CTH K AND 80TH AVE.

R11-3
60" X 30"



TYPE III BARRICADE

CTH K





M1-6
24"X24"

500'

PLACE AT 94TH CT AND CTH K OR
AS DETERMINED BY THE ENGINEER





M1-6
24"X24"

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 215	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHK_1_S2
PLOT DATE : 4/29/2022 3:56 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-1
24"X24"

R3-2
24"X24"

R3-1
24"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ROAD CLOSED 500 FT
W20-3D

31
M1-6
24"X24"

ROAD CLOSED 500 FT
W20-3D

31
M1-6
24"X24"

500'

500'

500'

500'

CTH K

CTH K

STH 31

FLAG

A/C

A/C

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 216	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHK_2_S2

PLOT DATE : 4/29/2022 3:56 PM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD CLOSED 1000 FT
W20-3C

31
M1-6
24"X24"

500'

PARK AVE

T706
720.05

CTH K

60TH AVE

59TH AVE

56TH AVE

EXACT LOCATION AND DISTANCE TO BE DETERMINED BY THE ENGINEER.

ROAD CLOSED AHEAD
W20-3A

31
M1-6
24"X24"

CTH K

R11-3
60" X 30"

ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

PLACE AT 51ST AVE AND CTH K

EXACT LOCATION AND DISTANCE TO BE DETERMINED BY THE ENGINEER.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 217	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHK_3_S2

PLOT DATE : 4/29/2022 3:56 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

68TH AVE

PLACE AT THE INTERSECTION
OF STH 158 AND 88TH AVE.

R11-3
60" X 30"
ROAD CLOSED
1.6 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

R3-2
24"X24"

R11-3
60" X 30"
ROAD CLOSED
0.3 MILES AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE

R11-2
48" X 30"
ROAD
CLOSED
TYPE III BARRICADE

STH 158

500'

500'

ROAD
CLOSED
AHEAD
W20-3A

ROAD
CLOSED
1000 FT
W20-3C

R3-1
24"X24"

ROAD
CLOSED
500 FT
W20-3D

64TH AVE.

PLACE AT 95TH AVE AND STH 158
OR AS DETERMINED BY THE
ENGINEER

68TH AVE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 218	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 158_1_S1

PLOT DATE : 4/29/2022 3:57 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

STH 158

STH 158

64TH AVE

STH 31

STH 31

T802
728.80

T801
730.20

CANOPY

CANOPY

FLAG

FLAG

U/C

U/C

U/C

2_201

2_202

2_203

1_83

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 219	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 158_2_S1

PLOT DATE : 4/29/2022 3:57 PM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

EXACT LOCATION AND DISTANCE TO BE DETERMINED BY THE ENGINEER.

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

ROAD CLOSED AHEAD
W20-3A

500'

500'

MH

INL

MH

STH 158

INL

MH

W

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

58TH AVE

R3-1
24"X24"

R11-3
60" X 30"
ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

PLACE AT 51ST AVE AND CTH K

EXACT LOCATION AND DISTANCE TO BE DETERMINED BY THE ENGINEER.

56TH AVE

STH 158

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 220	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 158_3_S1

PLOT DATE : 4/29/2022 3:57 PM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

68TH AVE

PLACE AT THE INTERSECTION
OF STH 158 AND 88TH AVE.

R11-3
60" X 30"



TYPE III BARRICADE

STH 158

500'

500'





M1-6
24"X24"

PLACE AT 95TH AVE AND STH 158
OR AS DETERMINED BY THE
ENGINEER





M1-6
24"X24"





M1-6
24"X24"

68TH AVE

64TH AVE.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 221	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 158_1_S2

PLOT DATE : 4/29/2022 3:57 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-1
24"X24"

R3-2
24"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-1
24"X24"

R3-2
24"X24"

STH 158

STH 158

500'

500'

64TH AVE

STH 31

STH 31

T802
728.80

T801
730.20

2_201

2_202

2_203

2_183

U/C

U/C

U/C

CANOPY

FLAG

FLAG

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 222	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 158_2_S2

PLOT DATE : 4/29/2022 3:57 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

ROAD CLOSED 500 FT
W20-3D
31
M1-6
24"X24"

500'

ROAD CLOSED 1000 FT
W20-3C
31
M1-6
24"X24"

500'

EXACT LOCATION AND DISTANCE TO BE DETERMINED BY THE ENGINEER.

ROAD CLOSED AHEAD
W20-3A
31
M1-6
24"X24"

MH
INL
MH
STH 158
INL
MH
W
58TH AVE

STH 158

R11-3
60" X 30"
ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

PLACE AT 51ST AVE AND CTH K

EXACT LOCATION AND DISTANCE TO BE DETERMINED BY THE ENGINEER.

56TH AVE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 223	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 158_3_S2

PLOT DATE : 4/29/2022 3:57 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

45TH ST.

500'

ROAD CLOSED AHEAD

W20-3A

31

M1-6
24"X24"

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 224	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 45th_1_S2

PLOT DATE : 4/29/2022 3:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

45TH ST.

500'

500'

ROAD CLOSED 500 FT
W20-3D

63RD AVE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R3-1
24"X24"

R3-2
24"X24"

STH 31

410

RIPRAP

T604
720.78

405

250' BUFFER

245' TAPER

300'

45TH ST.

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2
24"X24"

R3-1
24"X24"

WO1-6
48" X 24"
TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 225	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 45th_2_S2

PLOT DATE : 4/29/2022 3:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

W04-2R

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD CLOSED AHEAD
W20-3A

31
M1-6
24"X24"

55TH AVE

350'

350'

350'

STH 158

R11-3
60" X 30"

ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

58TH AVE

STH 158

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 226	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 45th_3_S2

PLOT DATE : 4/29/2022 3:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

64TH AVE

45TH AVE

PLACE NEAR
INTERSECTION
OF 64TH AVE.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 227	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 45th_1_S1

PLOT DATE : 4/29/2022 3:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

PLACE AFTER LAST DRIVEWAY

45TH STREET

500'

63RD AVE

500'

STH 158

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

PLACE AFTER LAST DRIVEWAY

SEE SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES FOR MINOR SIDEROADS.

STH 31

INL

MH

SIGN

RIPRAP

4:1

1604
720 78

405

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 228	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 45th_2_S1

PLOT DATE : 4/29/2022 3:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED 1000 FT
W20-3C

500'

500'

45TH AVE

55TH AVE

EXACT LOCATION AND DISTANCE TO BE DETERMINED BY THE ENGINEER.

ROAD CLOSED AHEAD
W20-3A

45TH ST.

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

56TH AVE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 229	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - 45th_3_S1

PLOT DATE : 4/29/2022 3:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

CTH S

CTH S

500'

500'

500'

540' TAPER

ROAD CLOSED AHEAD
W20-3A

SOUTH
M3-3
24"X12"

31
M1-6
24"X24"

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 230	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHS_1_S2

PLOT DATE : 4/29/2022 3:58 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

BRUMBACK BLVD.

END ROAD WORK
G20-2A
48"X24"

500'

100'

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
R1-1
30"X30"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

15' TYP.

100' TAPER

R3-2
24"X24"

R3-1
24"X24"

100' TYP.

435'

440'

CTH S

STH 31

RIPRAP

INL

MH

SIGN

POST

T702
726.16

T702
726.13

T603
728.02

500'

END ROAD WORK
G20-2A
48"X24"

FLAG

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

RIGHT LANE CLOSED AHEAD
W20-5A

WO4-2R

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 231	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHS_2_S2

PLOT DATE : 4/29/2022 3:59 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD W20-1A

R11-2L 48" X 30" LANE CLOSED

TYPE III BARRICADE

56TH AVE

STOP R1-1 30"X30"

15' TYP.

CTH S

200' TAPER

BEGIN RIGHT TURN LANE R3-20R 24"X36"

ROAD WORK AHEAD W20-1A

R11-2L 48" X 30" LANE CLOSED

TYPE III BARRICADE

55TH AVE

STOP R1-1 30"X30"

WOM-2R

RIGHT LANE CLOSED AHEAD W20-5A

ROAD CLOSED AHEAD W20-3A

SOUTH M3-3 24"X12"

31 M1-6 24"X24"

500' 500' 500'

PLACE SIGNS ON MEDIAN SIDE AND OUTSIDE.

BEGIN RIGHT TURN LANE R3-20R 24"X36"

100' TAPER

100'

360'

540' TAPER

25' TYP.

50' TYP.

50' TYP.

CTH S

R11-2L 48" X 30" LANE CLOSED

TYPE III BARRICADE

55TH AVE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 232	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHS_3_S2

PLOT DATE : 4/29/2022 3:59 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

COMMERCIAL DRIVEWAY

STOP
R1-1
30"X30"

END ROAD WORK
G20-2A
48"X24"

445

450

455

STH 31

25' TYP.

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

W04-2R

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 233	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHS_4_S2

PLOT DATE : 4/29/2022 3:59 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

31ST ST.

END ROAD WORK
G20-2A
48"X24"

STOP
R1-1
30"X30"

25' TYP.

50' TYP.

460

465

STH 31

470

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

EXTEND EXISTING TAPER

25' TYP.

50' TYP.

STOP
R1-1
30"X30"

COMMERCIAL DRIVEWAY

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

31ST ST.

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 234	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHS_5_S2

PLOT DATE : 4/29/2022 3:59 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

EXTEND EXISTING TAPER

BEGIN RIGHT TURN LANE

R3-20R 24"X36"

220' BUFFER

540' TAPER

500'

500'

25'
TYP.

25'
TYP.

50'
TYP.

25

W04-2R

475

480

485

STH 31

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 235	E

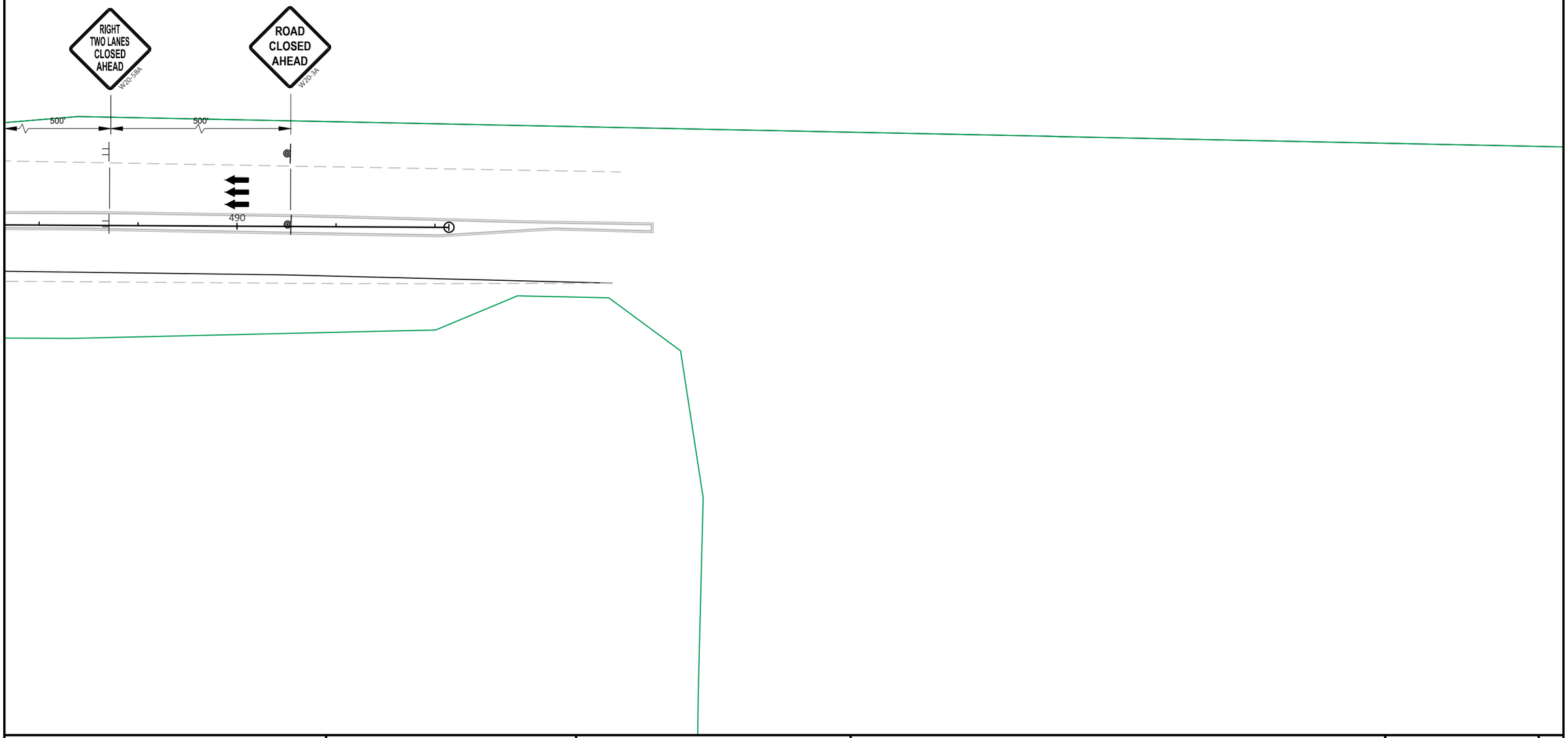
FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHS_6_S2

PLOT DATE : 4/29/2022 3:59 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N



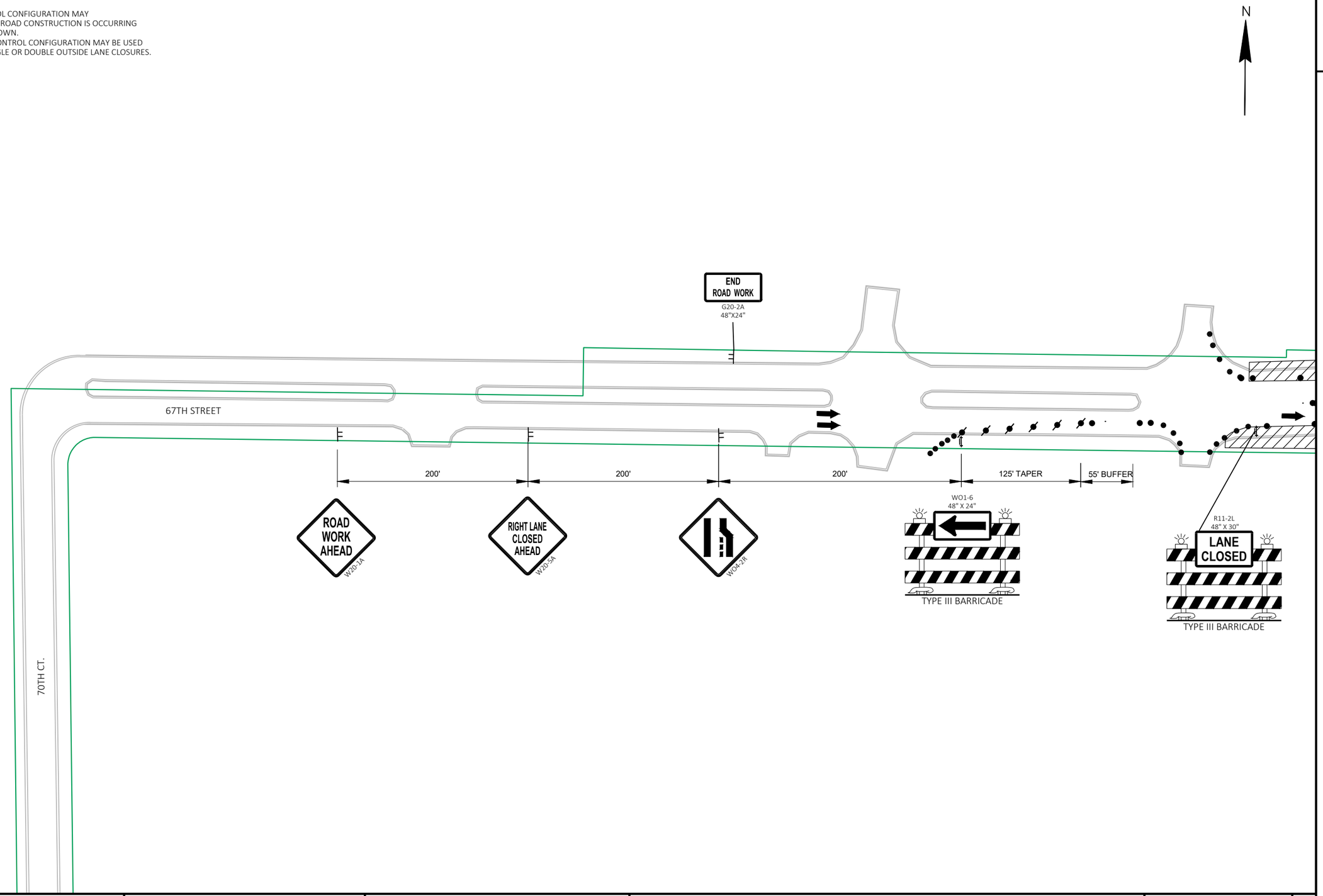
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - FULL CLOSURE	SHEET 236	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025107-TC.DWG
LAYOUT NAME - CTHS_7_S2

PLOT DATE : 4/29/2022 3:59 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

2



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 237	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - 67TH_ST_1_S1
PLOT DATE : 4/29/2022 4:02 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

WO4-2R

55'
BUFFER (MIN.)

125' TAPER

200'

200'

67TH ST.

67TH ST.

END
ROAD WORK
G20-2A
48"X24"

STH 31

330

325

1808
15.54

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 238	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - 67TH_ST_2_S1

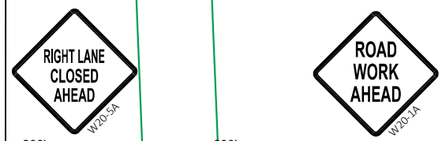
PLOT DATE : 4/29/2022 4:02 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N



200' 200'

67TH STREET

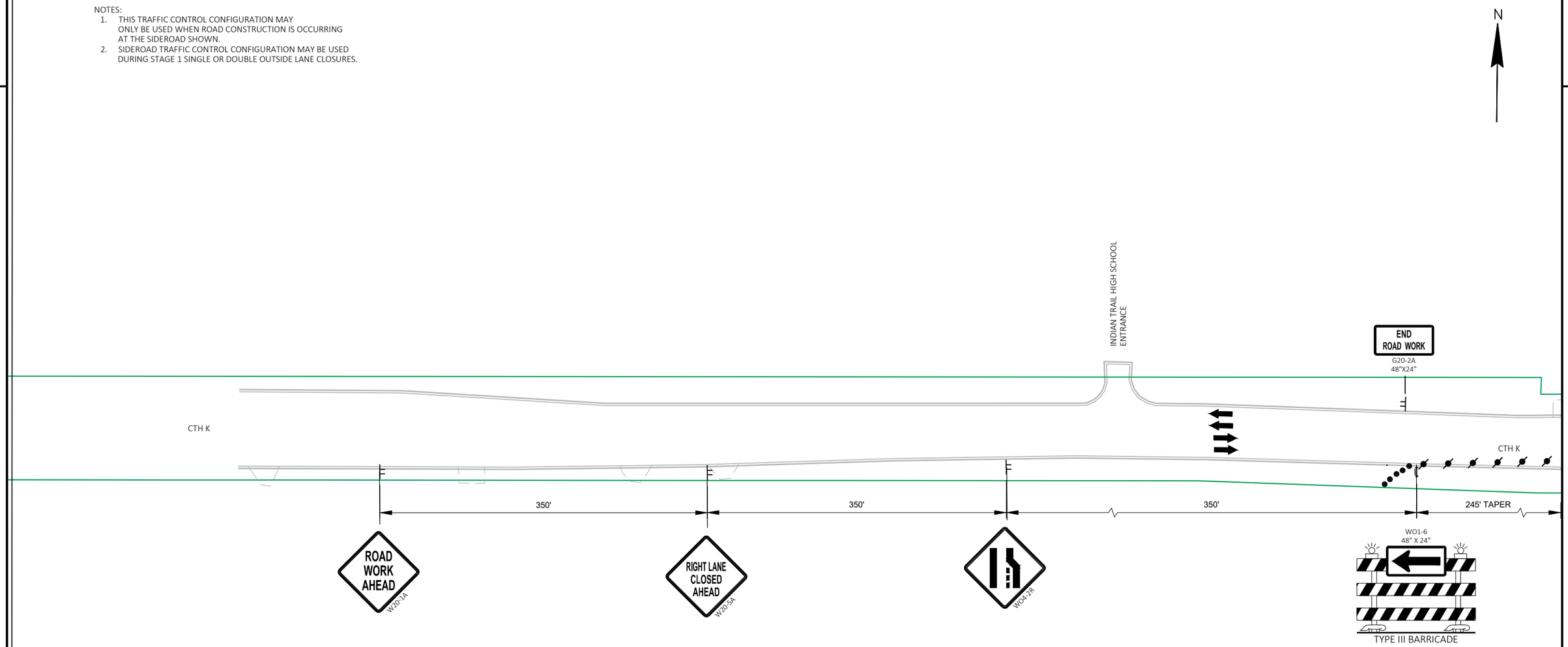
2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 239	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - 67TH_ST_3_S1
PLOT DATE : 4/29/2022 4:02 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 240	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - CTHK_1_S1

PLOT DATE : 4/29/2022 4:02 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

CANOPY

CTH K

245' TAPER

250' BUFFER

120' BUFFER

FLAG

STH 31

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 241	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - CTHK_2_S1

PLOT DATE : 4/29/2022 4:02 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

WO1-6
48" X 24"

TYPE III BARRICADE

PARK RD.

120'
BUFFER

245' TAPER

350'

W04-2R

3.49'

RIGHT LANE
CLOSED
AHEAD
W20-5A

350'

ROAD
WORK
AHEAD
W20-1A

T716
720.05

CTH K

CTH K

END
ROAD WORK
G20-2A
48"X24"

60TH AVE

59TH AVE

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 242	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - CTHK_3_S1

PLOT DATE : 4/29/2022 4:03 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

68TH AVE

STH 158

STH 158

END ROAD WORK
G20-2A
48"X24"

1000'

500'

500'

ROAD WORK AHEAD
W20-1A

ROAD WORK 1000 FT
W20-1C

ROAD WORK 500 FT
W20-1D

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 243	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - STH158_1_S1

PLOT DATE : 4/29/2022 4:03 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION

STH 31

STH 158

500'

T802
728.80

T801
730.20

385

380

U/C

CANOPY

FLAG

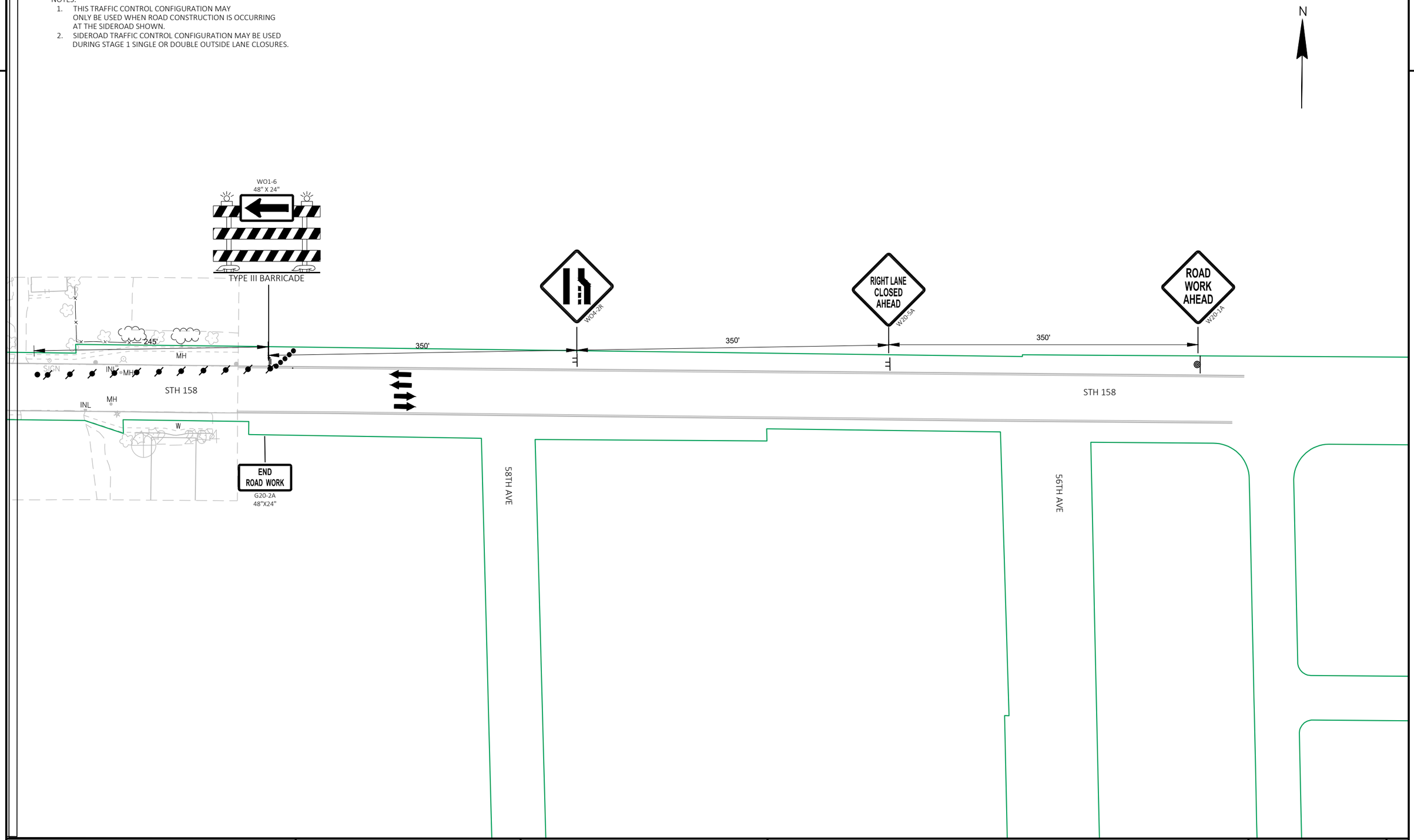
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 244	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - STH158_2_S1

PLOT DATE : 4/29/2022 4:03 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

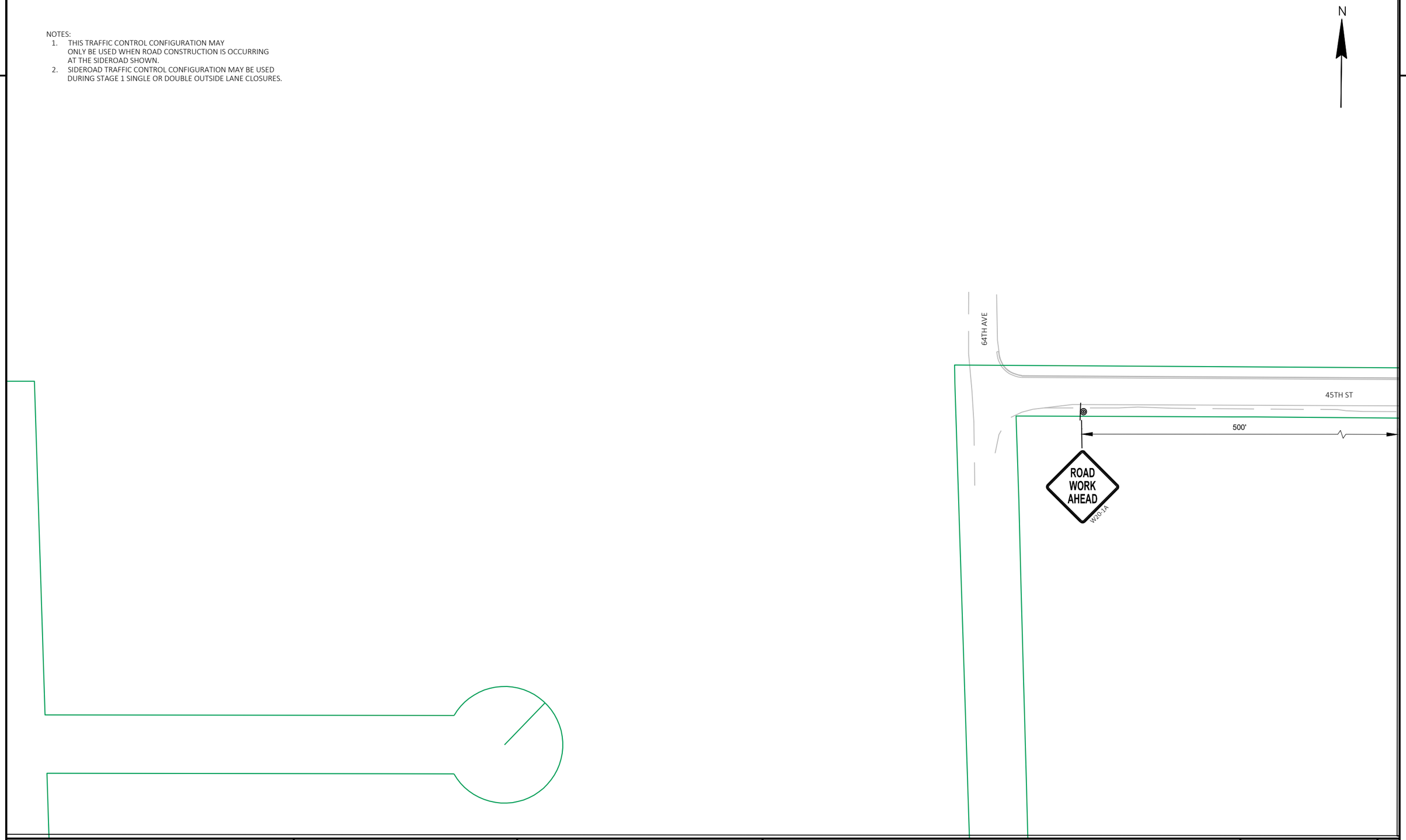
NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 245	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - STH158_3_S1
PLOT DATE : 4/29/2022 4:03 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

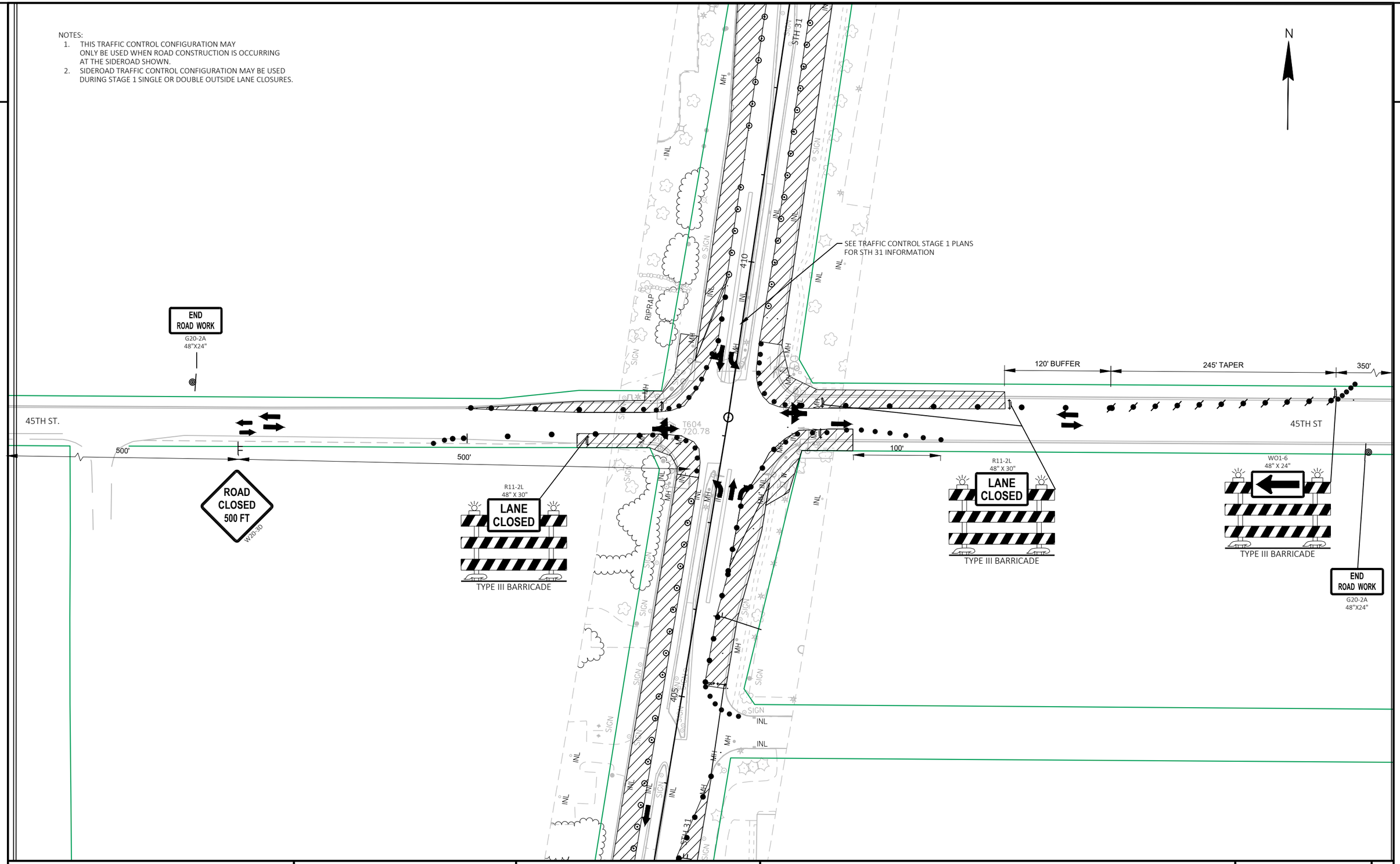
NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 246	E

2

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



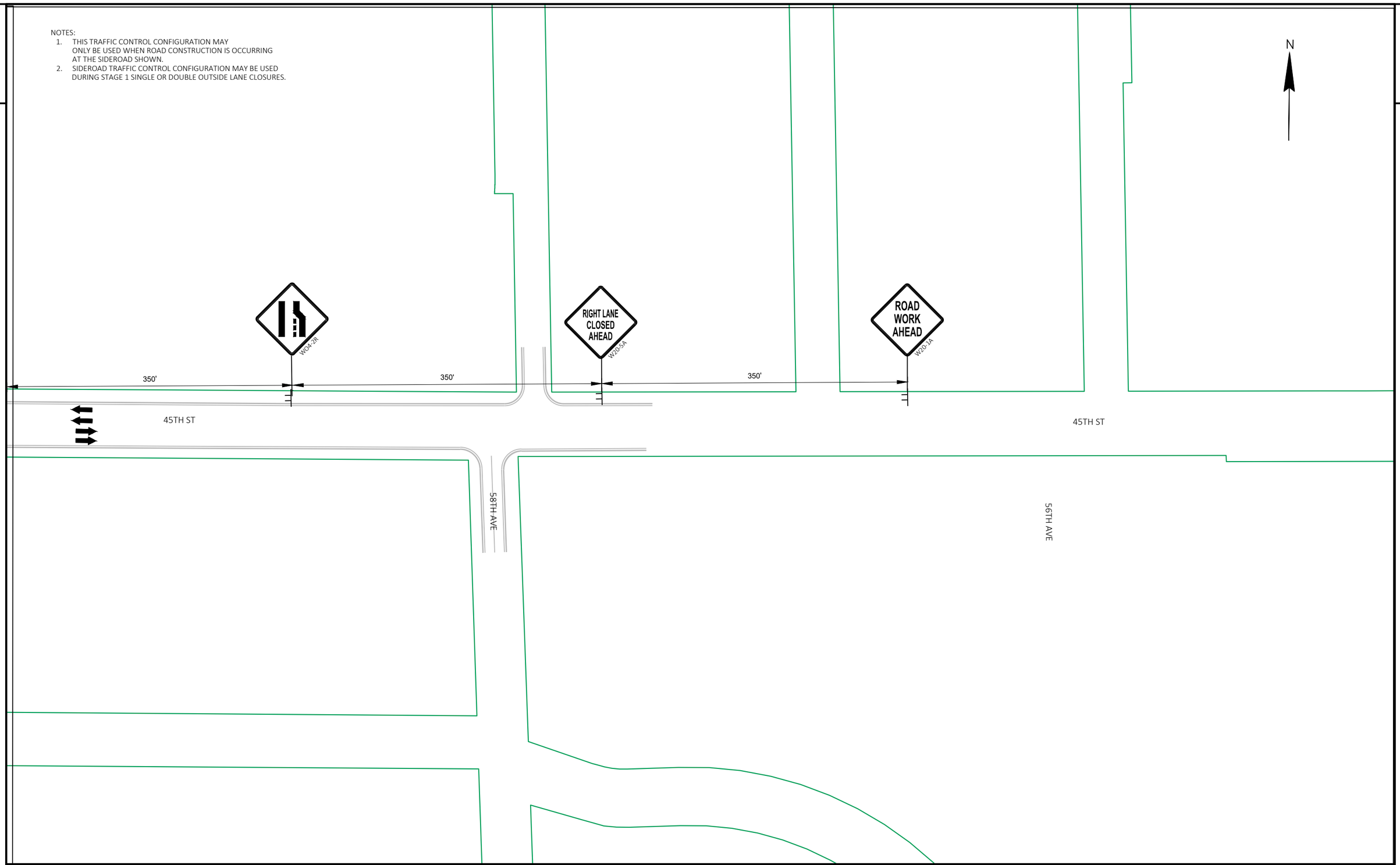
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 247	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - 45TH_2_S1

PLOT DATE : 4/29/2022 4:03 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

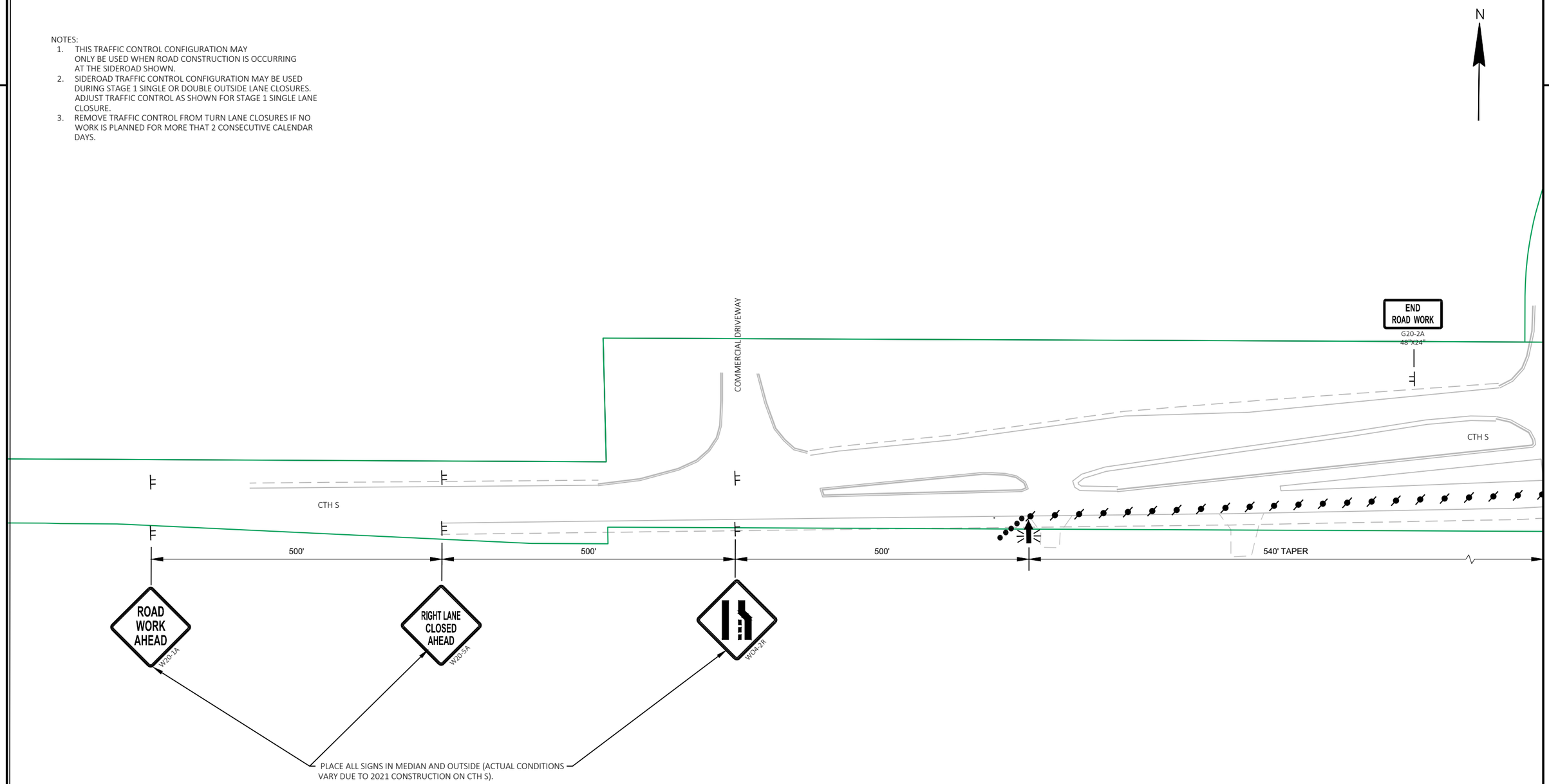


PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 248	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - 45TH_3_S1
PLOT DATE : 4/29/2022 4:04 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

NOTES:

1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES. ADJUST TRAFFIC CONTROL AS SHOWN FOR STAGE 1 SINGLE LANE CLOSURE.
3. REMOVE TRAFFIC CONTROL FROM TURN LANE CLOSURES IF NO WORK IS PLANNED FOR MORE THAT 2 CONSECUTIVE CALENDAR DAYS.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 249	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - CTHS_1_S1
PLOT DATE : 4/29/2022 4:04 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

2

2

N

STH 31

SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION

R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED TYPE III BARRICADE

BEGIN RIGHT TURN LANE R3-20R 24"X36"

CTH S

CTH S

100'

100'

220' BUFFER

435

RIPRAP

RIPRAP

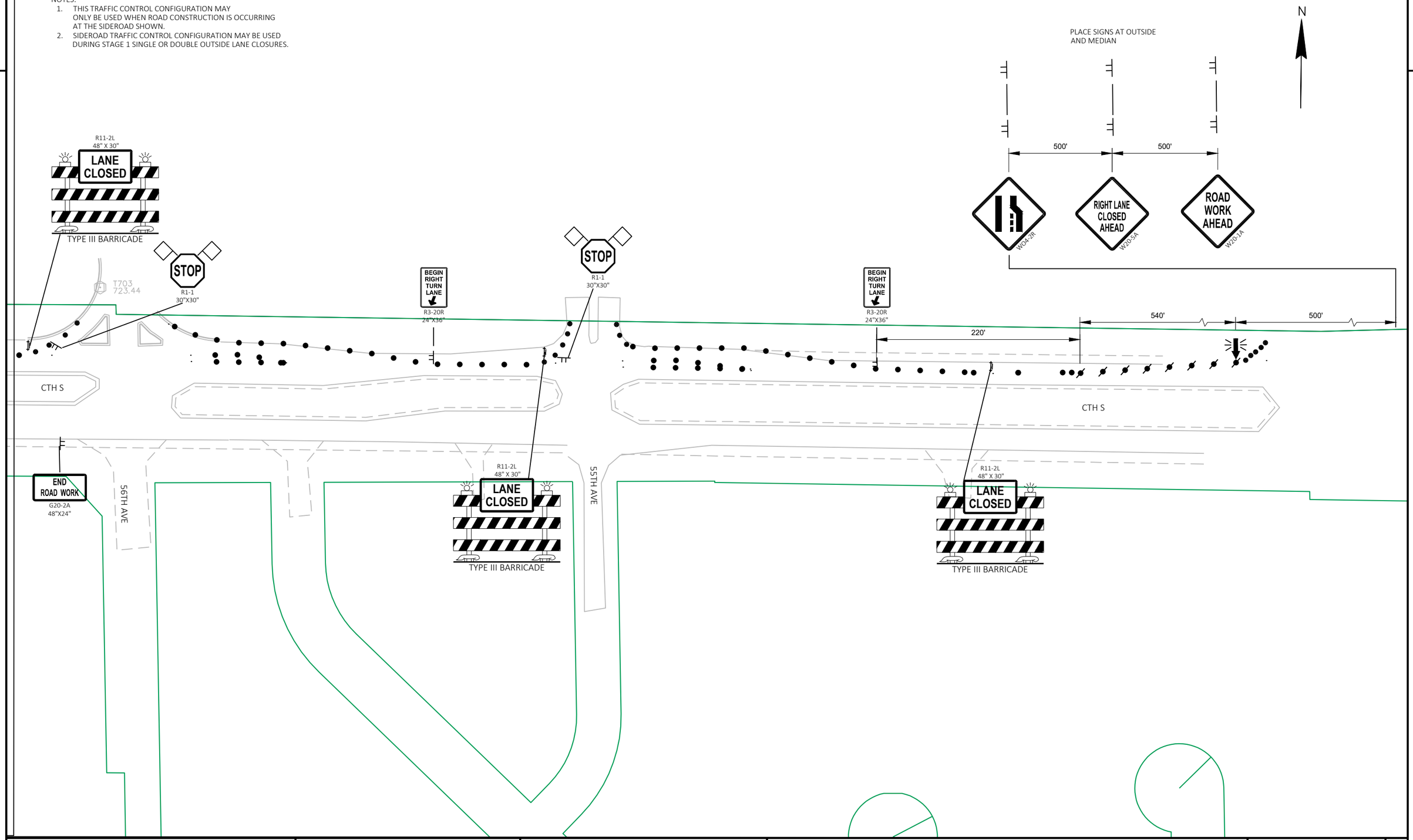
FLAG

INL

INL

INL

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD OUTSIDE LANE CLOSURES	SHEET 251	E

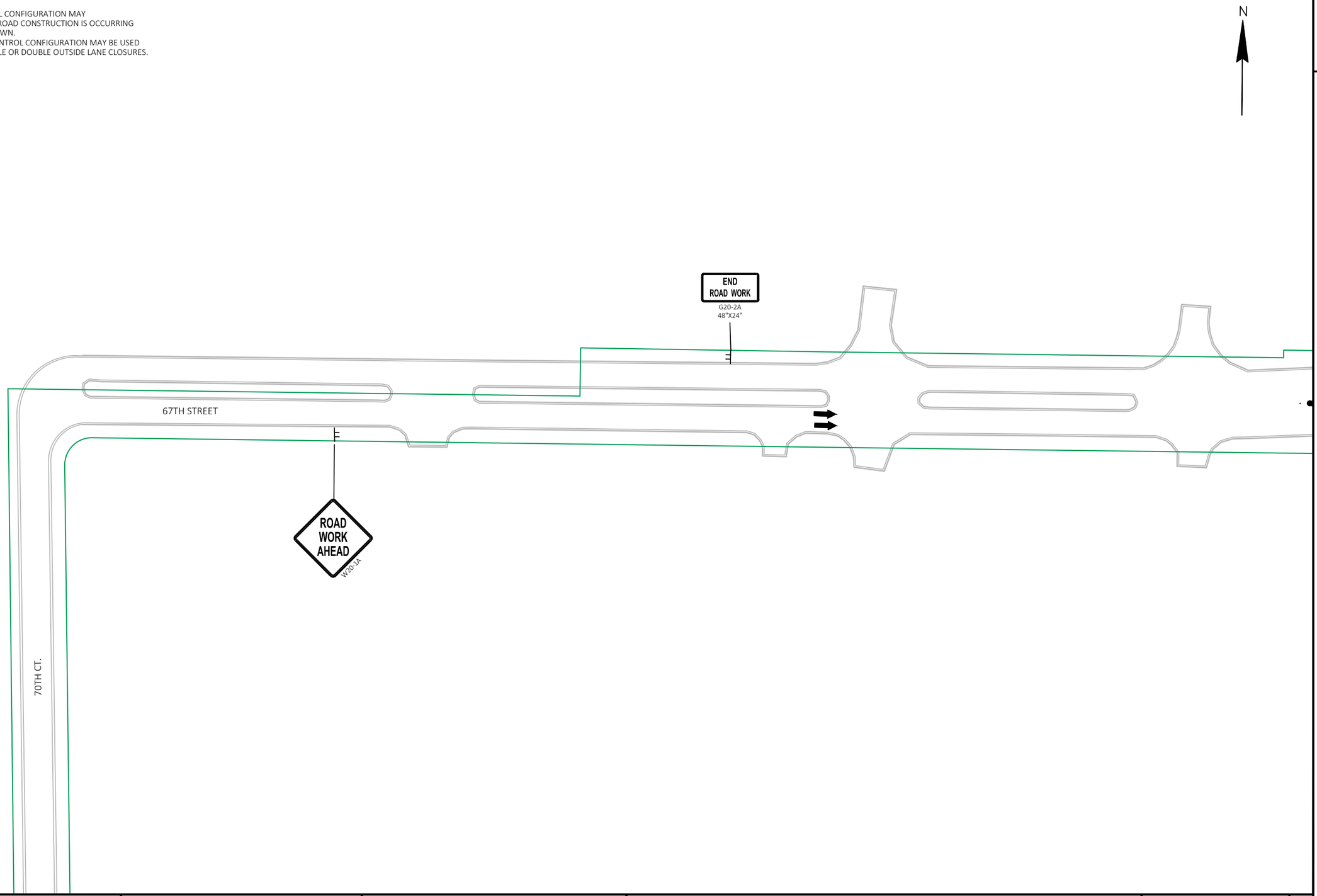
FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TC_INT.DWG
LAYOUT NAME - CTHS_3_S1

PLOT DATE : 4/29/2022 4:04 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 252	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - 67TH_ST_1_S1

PLOT DATE : 4/29/2022 4:06 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-6
48" X 24"
TYPE III BARRICADE

W0A-2R

55'
BUFFER (MIN.)

125' TAPER

200'

200'

67TH ST.

67TH ST.

END
ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STH 31

330'

325'

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 253	E

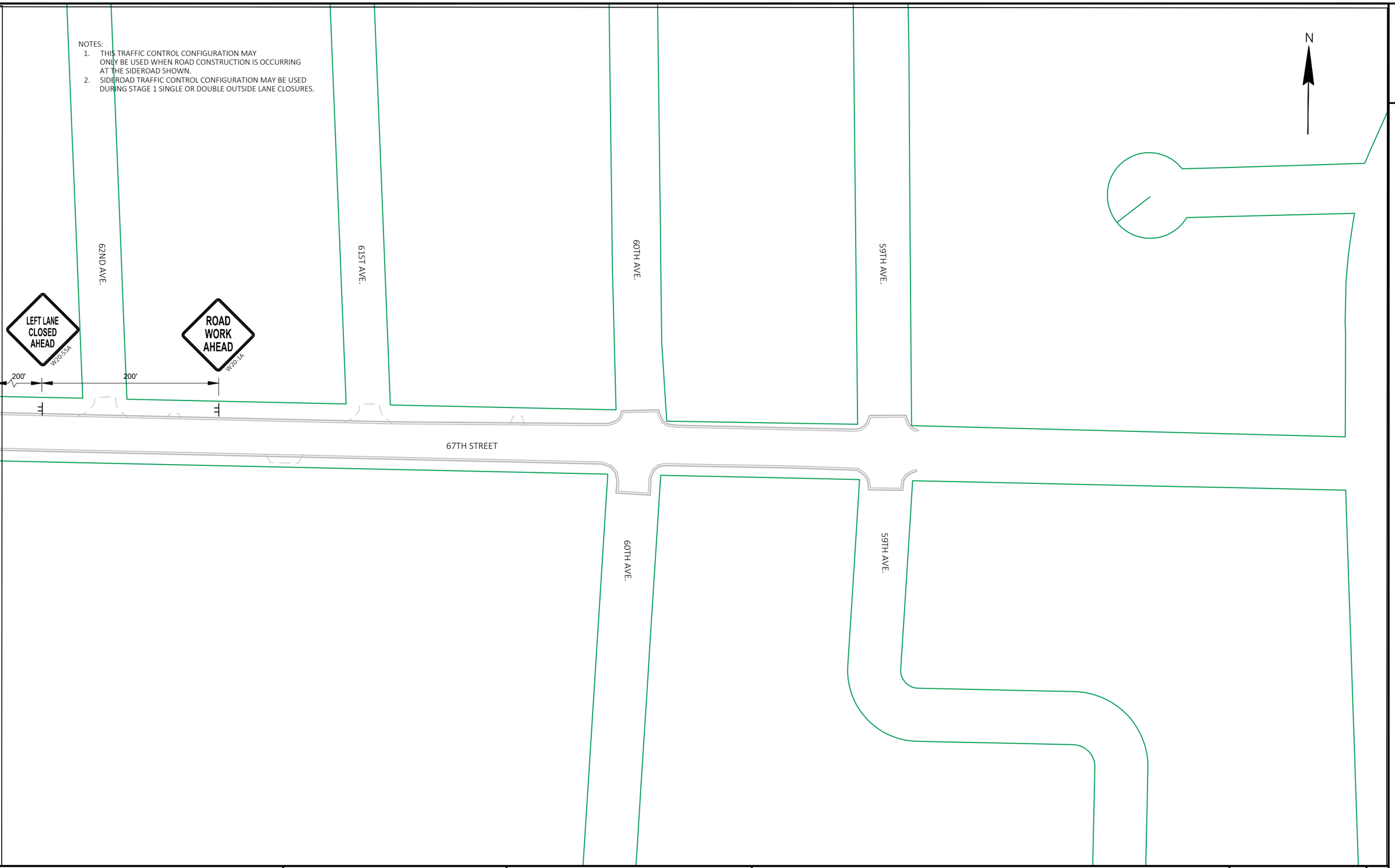
FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - 67TH_ST_2_S1

PLOT DATE : 4/29/2022 4:07 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

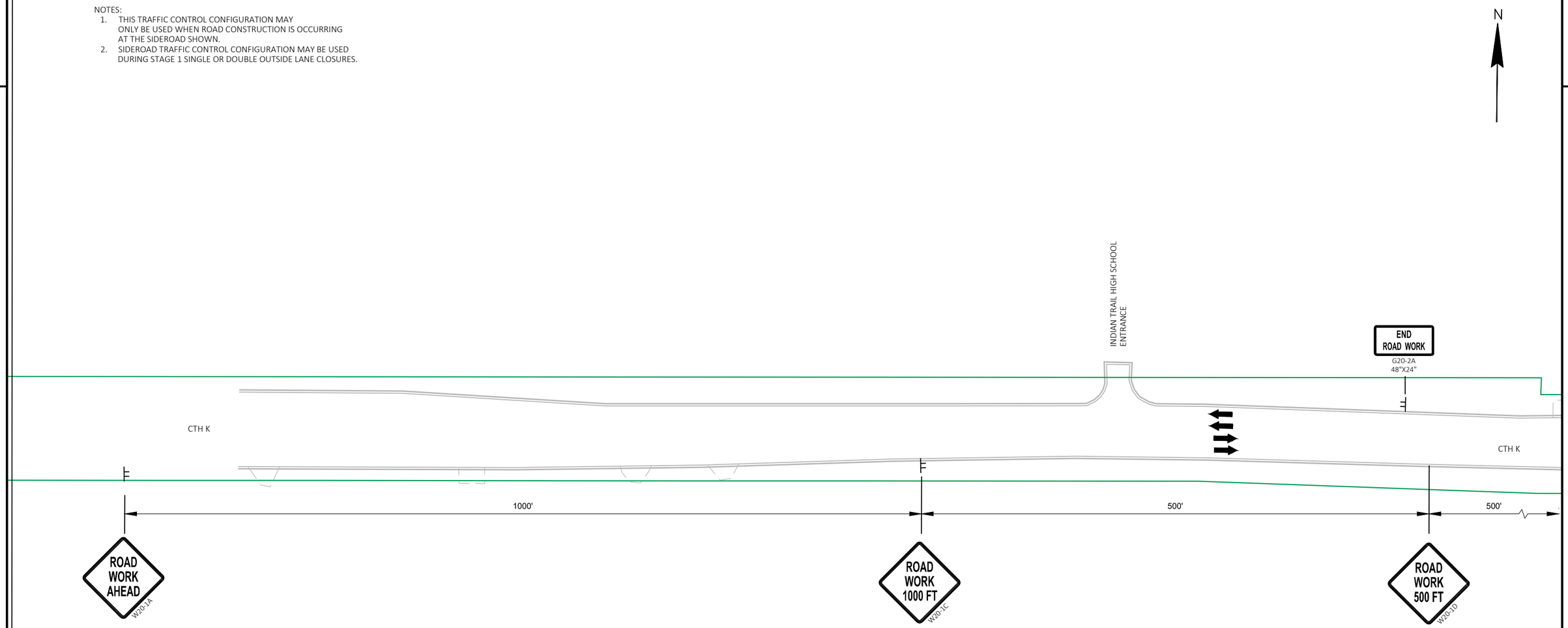


PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 254	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - 67TH_ST_3_S1

PLOT DATE : 4/29/2022 4:07 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 255	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - CTHK_1_S1
PLOT DATE : 4/29/2022 4:07 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE

WO1-6 48" X 24"
TYPE III BARRICADE

WO12-1D 48"X48"

SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION

R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE

R3-8xx 36"X30" ONLY ONLY

LEFT LANE MUST TURN LEFT
R3-7L 30"X30"

LEFT LANE MUST TURN LEFT.
R3-7L 30"X30"

R11-2L 48" X 30" LANE CLOSED
TYPE III BARRICADE

WO1-6 48" X 24"
TYPE III BARRICADE

WO12-1D 48"X48"

CANOPY

500' FLAG

500'

CTH K

STH 31

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 256	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - CTHK_2_S1
PLOT DATE : 4/29/2022 4:07 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

ROAD WORK 500 FT
W20-1D
TO 83RD RD.

ROAD WORK 1000 FT
W20-1C

ROAD WORK AHEAD
W20-1A

500' 500' 1000'

T706
720.05

CTH K

CTH K

END ROAD WORK
G20-2A
48"X24"

60TH AVE

59TH AVE

2

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 257	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - CTHK_3_S1
PLOT DATE : 4/29/2022 4:07 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

N

68TH AVE

STH 158

STH 158

END ROAD WORK
G20-2A
48"X24"

1000'

500'

500'

ROAD WORK AHEAD
W20-1A

ROAD WORK 1000 FT
W20-1C

ROAD WORK 500 FT
W20-1D

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 258	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - STH158_1_S1

PLOT DATE : 4/29/2022 4:07 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

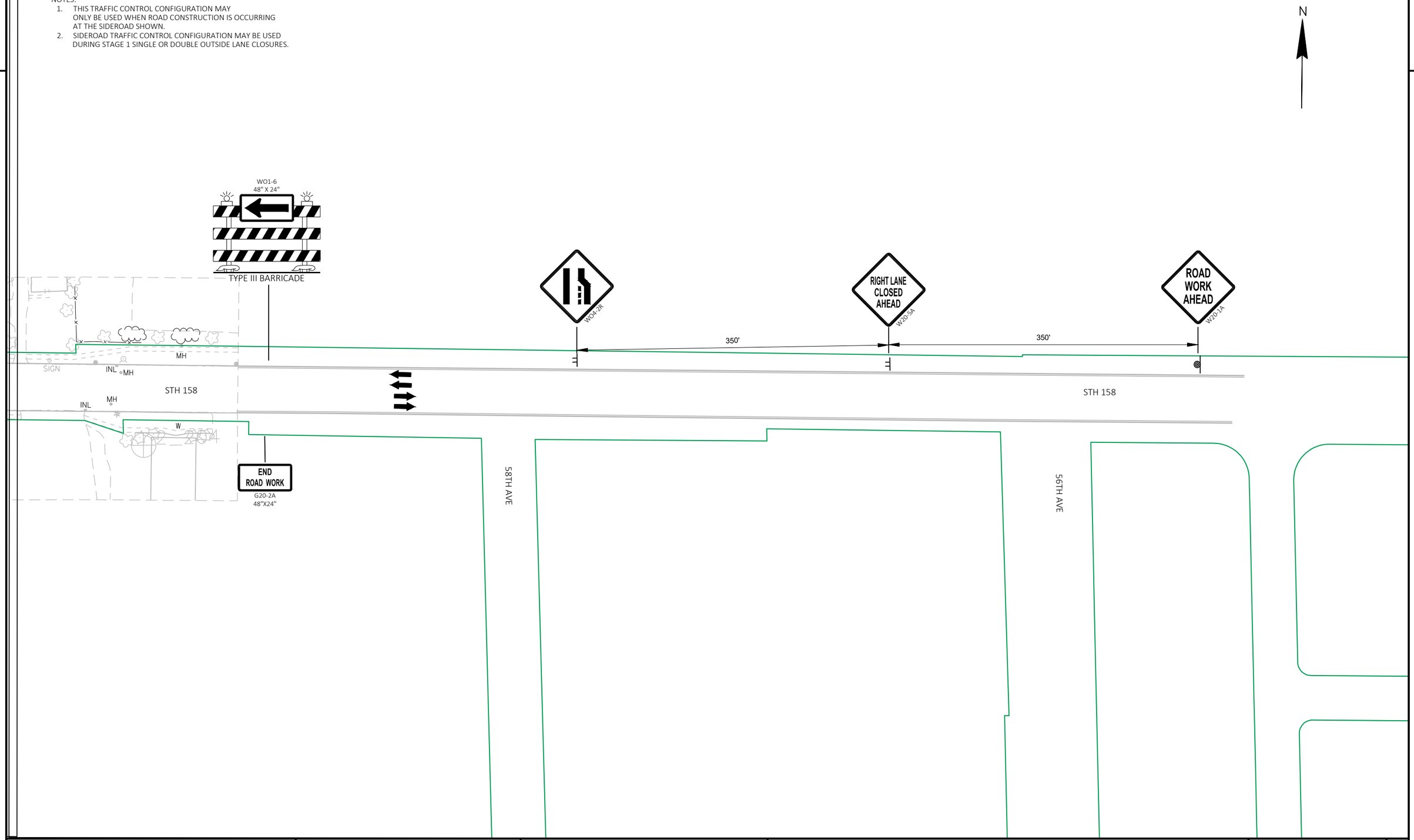
N

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE
WO12-1D 48"X48"
SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION
LEFT LANE MUST TURN LEFT
R3-7L 30"X30"
R3-8xx 36"X30"
ONLY
STH 31
STH 158
500'
T802 728.80
T801 730.20
T803 733.00
U/C
CANOPY
FLAG
POST
SIGN
INL
MH

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 259	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - STH158_2_S1
PLOT DATE : 4/29/2022 4:08 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

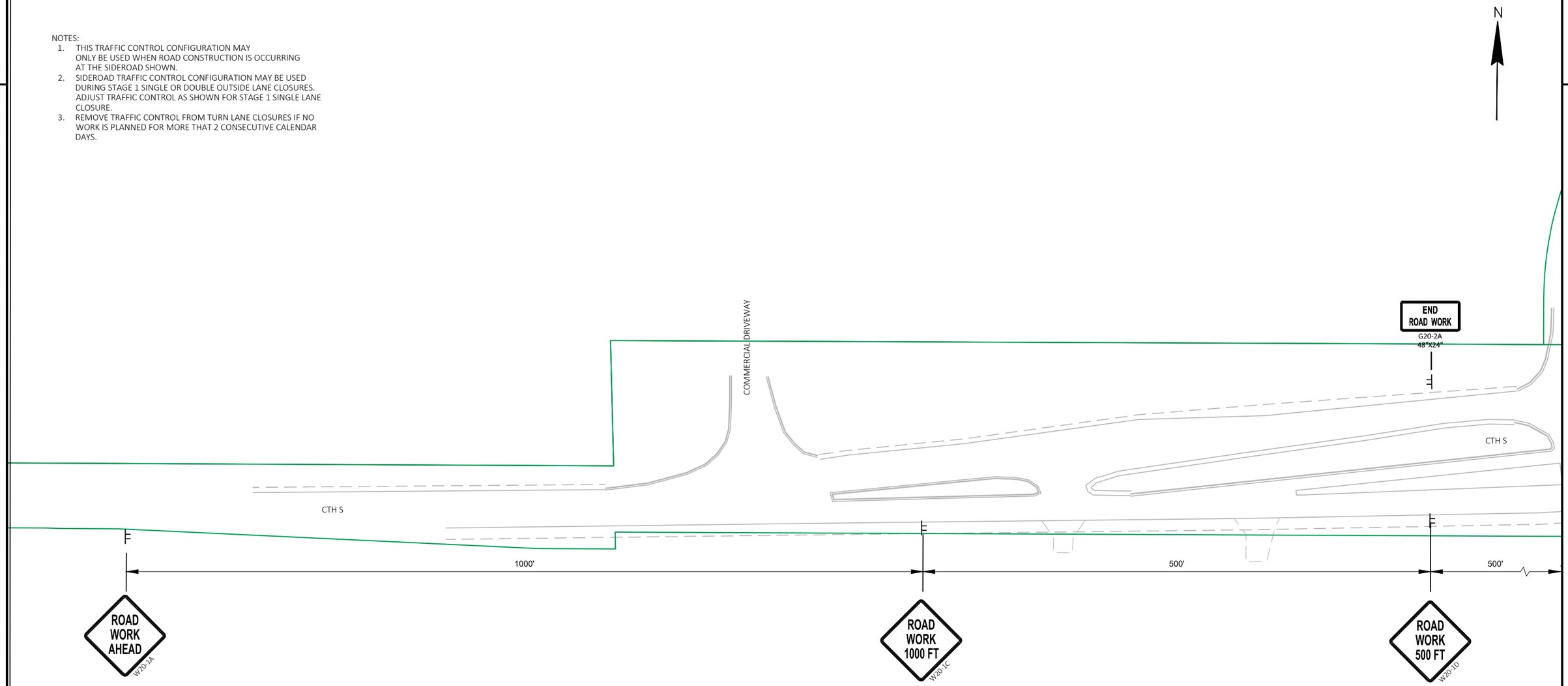


PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 260	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - STH158_3_S1
PLOT DATE : 4/29/2022 4:08 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:

1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES. ADJUST TRAFFIC CONTROL AS SHOWN FOR STAGE 1 SINGLE LANE CLOSURE.
3. REMOVE TRAFFIC CONTROL FROM TURN LANE CLOSURES IF NO WORK IS PLANNED FOR MORE THAT 2 CONSECUTIVE CALENDAR DAYS.



NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.

2

2

N

WO12-1D
48"X48"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

SEE TRAFFIC CONTROL STAGE 1 PLANS FOR STH 31 INFORMATION

STH 31

R3-8xx
36"X30"
ONLY ONLY

CTH S

100'

500'

LEFT LANE MUST TURN LEFT
R3-7L
30"X30"

RIPRAP

INL

MH

SIGN

POST

T601 724.73

T602 726.16

T702 726.13

T603 728.02

FLAG

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-8xx
36"X30"
ONLY ONLY

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

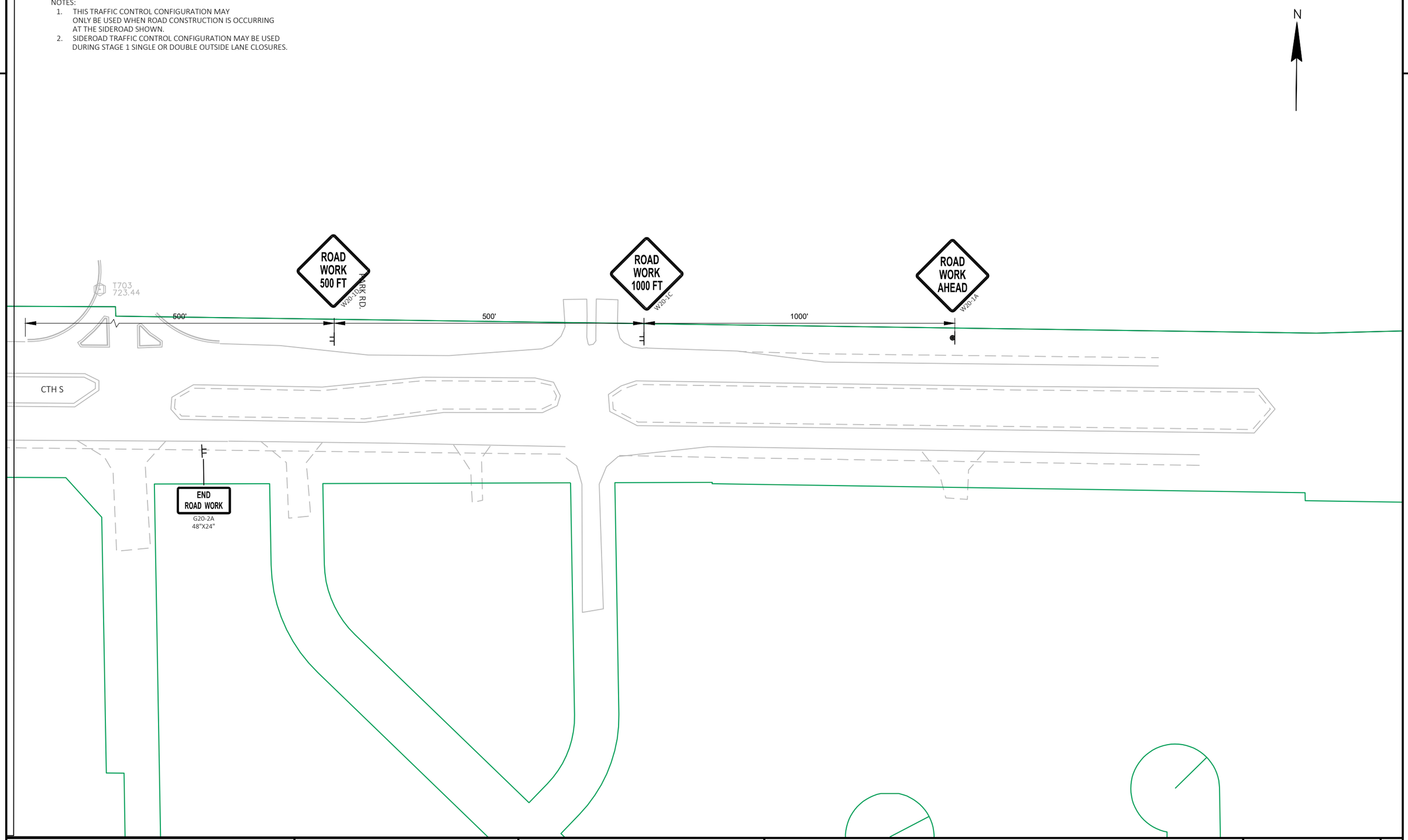
PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 262	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - CTHS_2_S1

PLOT DATE : 4/29/2022 4:08 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:
1. THIS TRAFFIC CONTROL CONFIGURATION MAY ONLY BE USED WHEN ROAD CONSTRUCTION IS OCCURRING AT THE SIDEROAD SHOWN.
2. SIDEROAD TRAFFIC CONTROL CONFIGURATION MAY BE USED DURING STAGE 1 SINGLE OR DOUBLE OUTSIDE LANE CLOSURES.



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - SIDEROAD INSIDE LANE CLOSURES	SHEET 263	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025106-TCB_INT.DWG
LAYOUT NAME - CTHS_3_S1

PLOT DATE : 4/29/2022 4:08 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

SOMERS

Kilbourn

RIS MB

MB

UE

340

342

344

36

18TH ST

100TH

96TH AVE

128TH AVE

CPR

UP

L

H

EA

N

S

K

K

31

158

50

50

41

2

C

H

31ST ST

Root

R.

IB

B

LEGEND

DETOUR ROUTE

SIGN ON PERMANENT SUPPORT

WORK AREA

SIGN SIZE TABLE

NEXT XX MILES — W057-51 48"X24"

31 — M1-6 24"X24"

MAX. 14' WIDTH — W12-52 48"X48"

SOUTH — M3-3 24"X12"

NORTH — M3-1 24"X12"

30 — MAX. 14' WIDTH

31 — MAX. 14' WIDTH / NEXT XX MILES

32 — NORTH 31 / MAX. 14' WIDTH

33 — SOUTH 31 / MAX. 14' WIDTH

34 — 31 / MAX. 14' WIDTH

GENERAL NOTES FOR DETOUR SIGNING

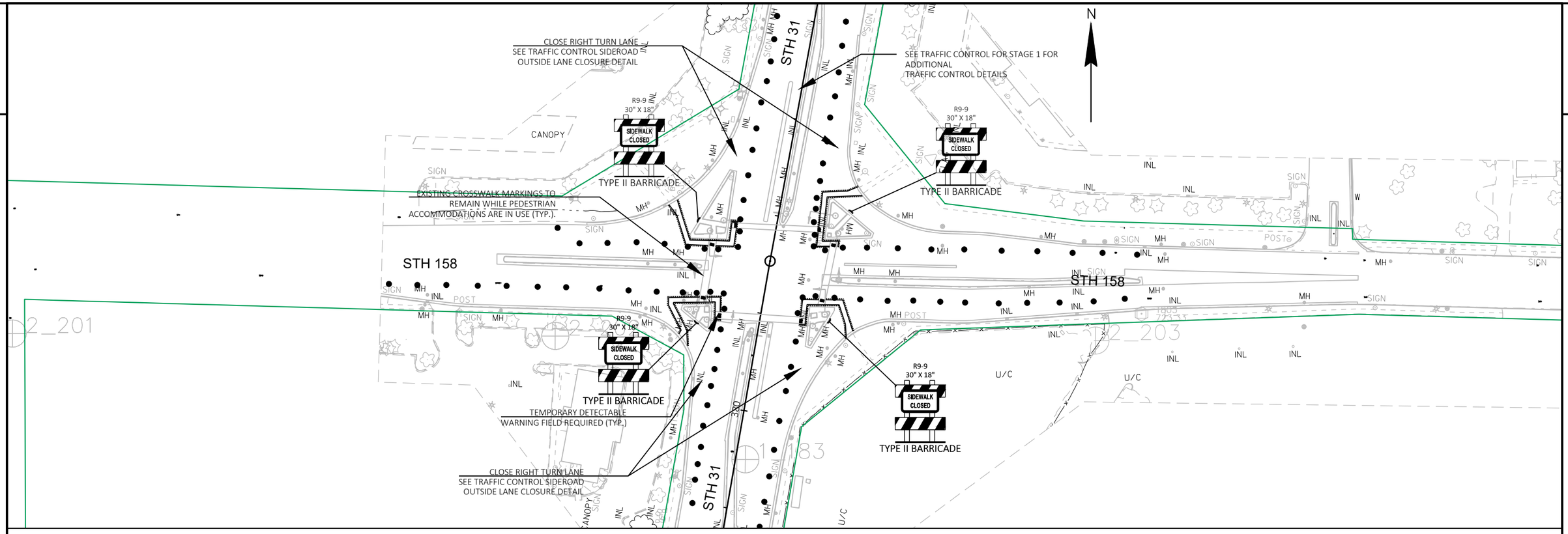
-THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER

-ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER

-THE ERECTION AND PLACEMENT OF SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL: OSOW	SHEET 264	E

FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\025109-TC.DWG
LAYOUT NAME - Plan 1 IN 100 FT
PLOT DATE : 4/28/2022 4:59 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : Custom
WISDOT/CADDS SHEET 42



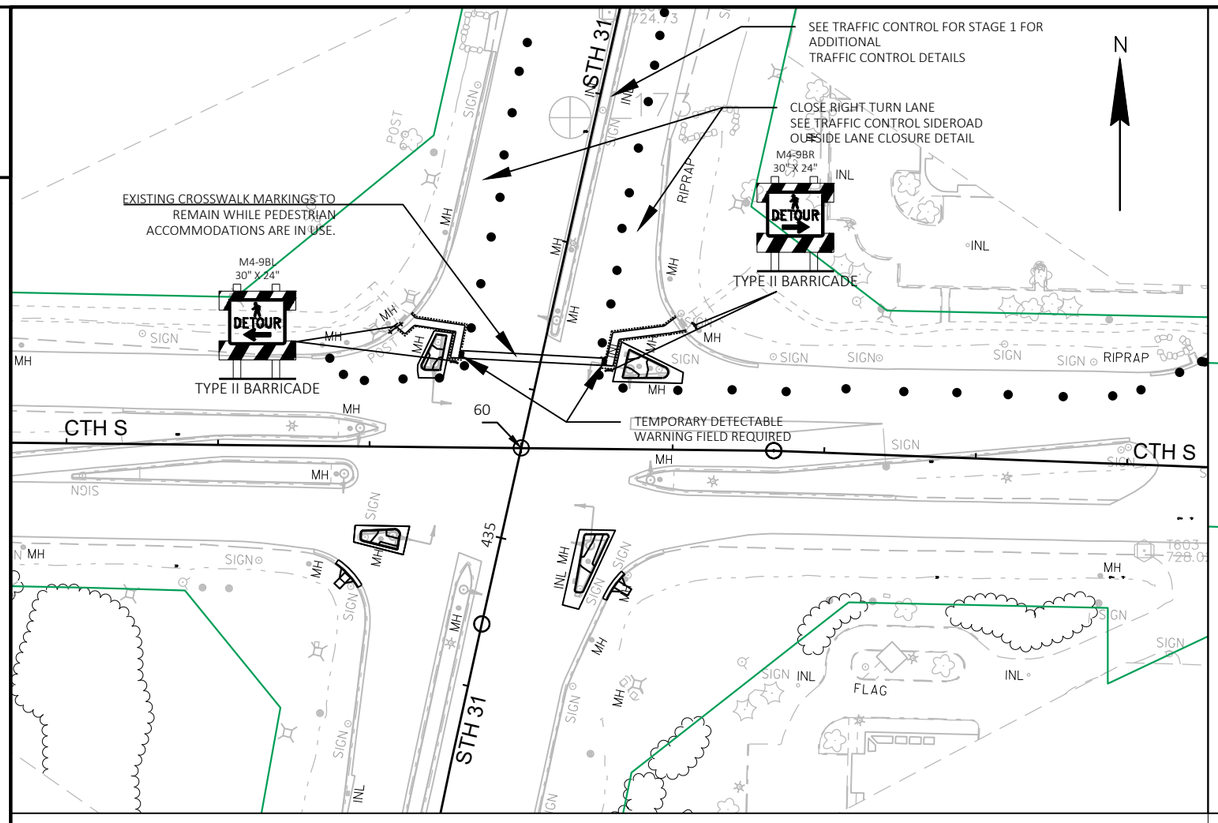
LEGEND

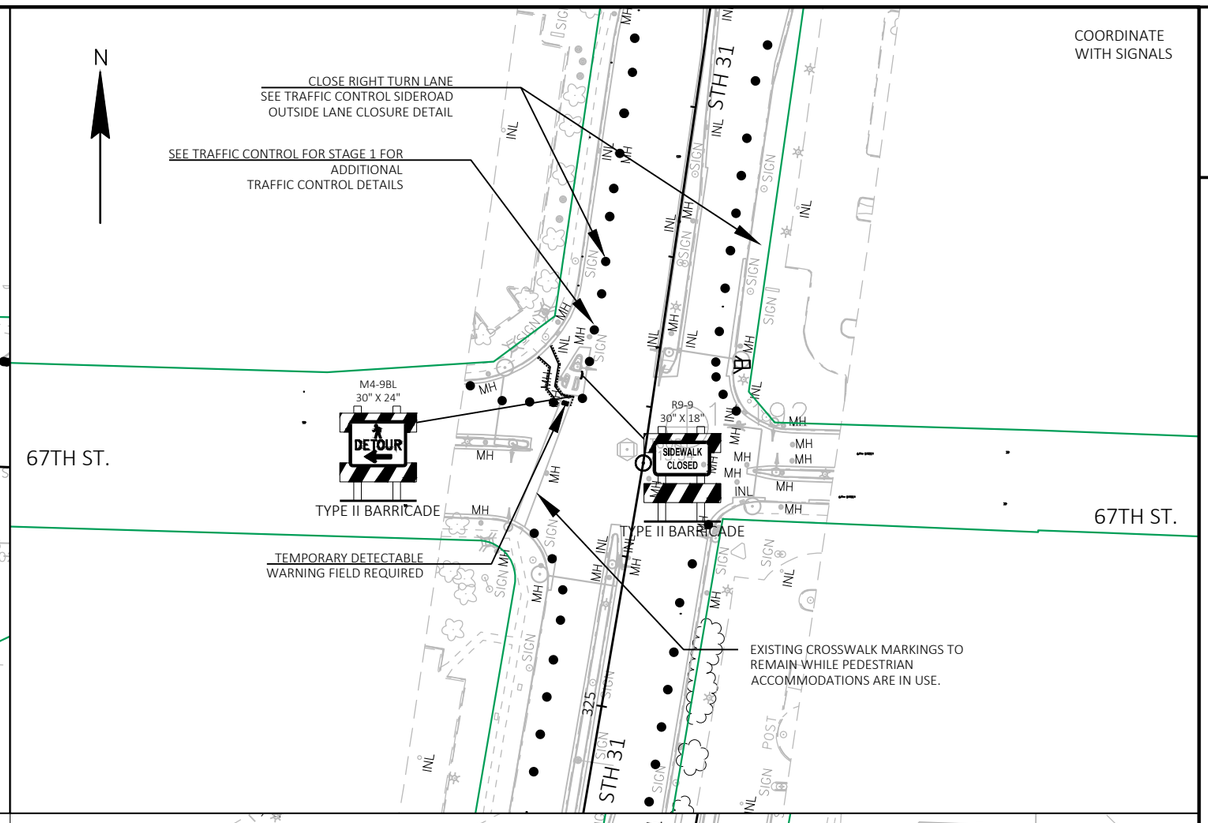
- PROPERTY LINE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE
  REMOVABLE TAPE 4-INCH (WHITE)
- TYPE II BARRICADE WITH ATTACHED SIGN, WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING
- PORTABLE DETECTABLE WARNING FIELD

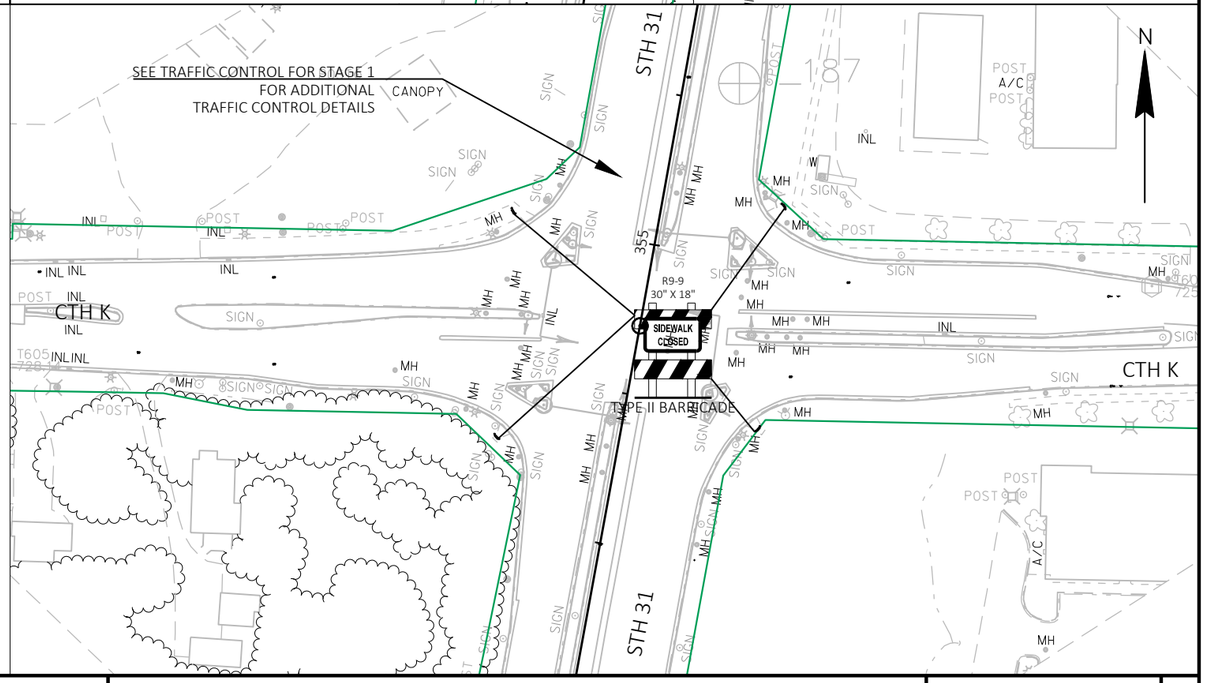
NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. TEMPORARY PEDESTRIAN ACCOMMODATIONS SHALL BE IN PLACE PRIOR TO NEW CURB RAMP AND SIGNAL WORK BEGINNING.
3. CONSTRUCT CURB RAMPS DURING STAGE 1 LANE CLOSURES
4. COORDINATE CURB RAMP WORK WITH SIGNAL CONSTRUCTION
5. ADDITIONAL LANE CLOSURES BEYOND WHAT IS SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER.
6. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.

PROJECT NO: 3330-00-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - PEDESTRIAN ACCOMMODATIONS	SHEET 265	E







LEGEND

- PROPERTY LINE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- TYPE II BARRICADE WITH ATTACHED SIGN, WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING
- PORTABLE DETECTABLE WARNING FIELD

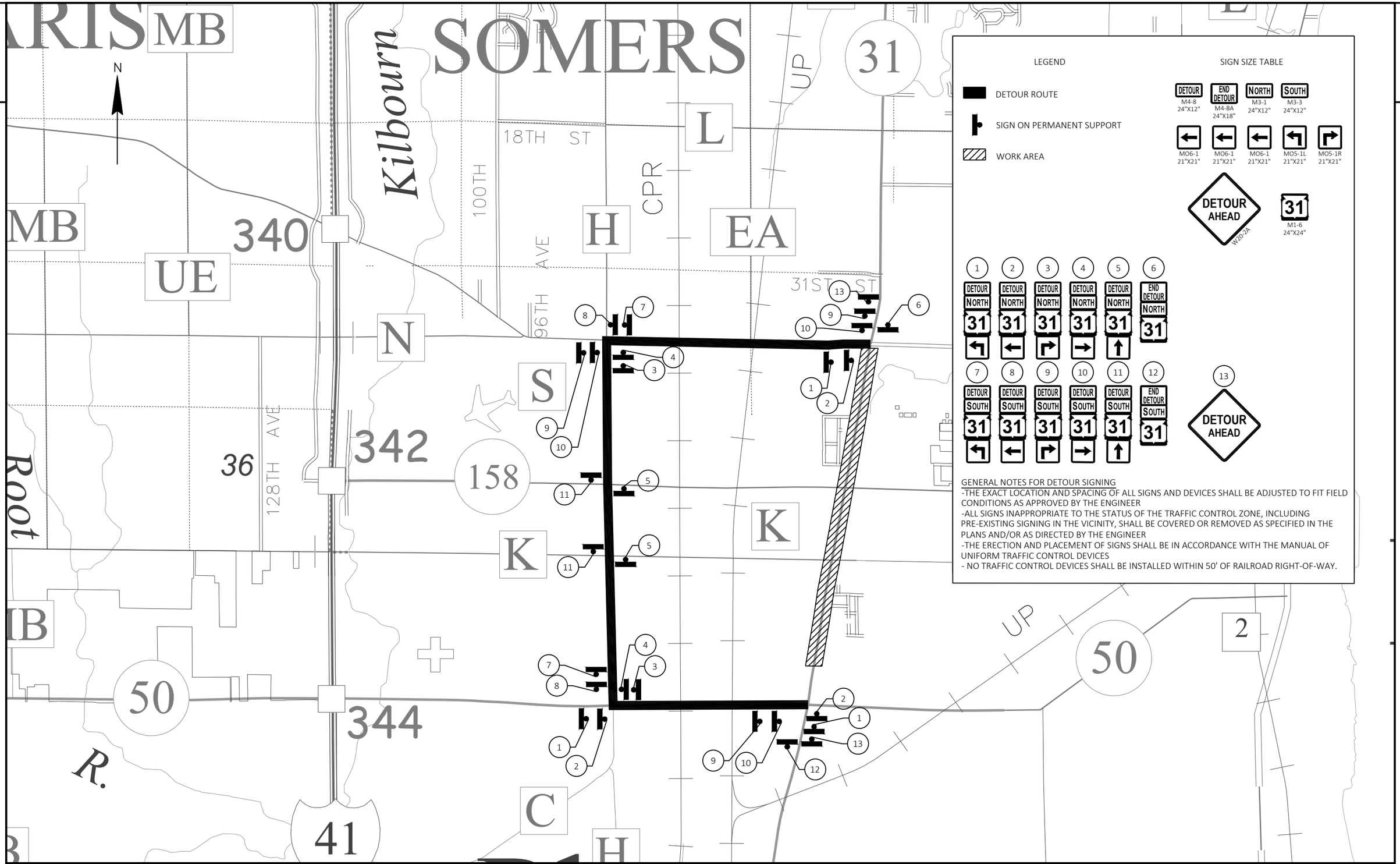
NOTES:

1. PROVIDE PEDESTRIAN SIGNAGE AND TEMPORARY DEVICES IN ACCORDANCE WITH SDD, "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" UNTIL ACCOMMODATIONS CAN BE PROVIDED VIA PERMANENT SIDEWALK PLACEMENT.
2. TEMPORARY PEDESTRIAN ACCOMMODATIONS SHALL BE IN PLACE PRIOR TO NEW CURB RAMP AND SIGNAL WORK BEGINNING.
3. CONSTRUCT CURB RAMPS DURING STAGE 1 LANE CLOSURES
4. COORDINATE CURB RAMP WORK WITH SIGNAL CONSTRUCTION
5. ADDITIONAL LANE CLOSURES BEYOND WHAT IS SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER.
6. SIDEWALK STAGING PLAN IS SUGGESTED SEQUENCE TO PERFORM WORK OPERATIONS WHILE MAINTAINING PEDESTRIAN ACCESS. SUBMIT, IN WRITING, ANY MODIFICATIONS TO THE ENGINEER A MINIMUM OF 5 DAYS PRIOR TO BEGINNING WORK.

COORDINATE WITH SIGNALS

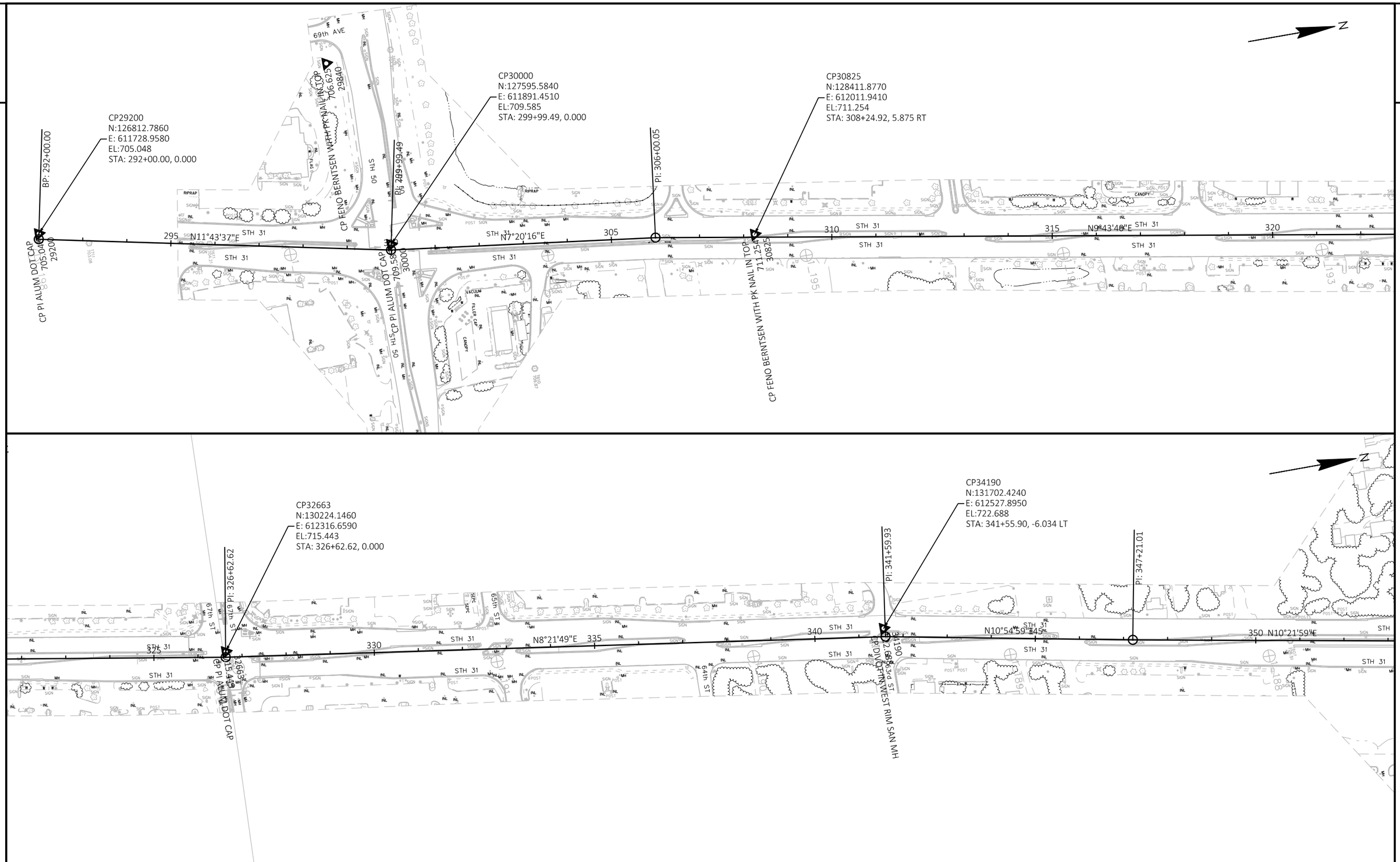
PROJECT NO: 3330-00-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL - PEDESTRIAN ACCOMMODATIONS	SHEET 266	E

2



PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	DETOUR ROUTE	SHEET 267	E

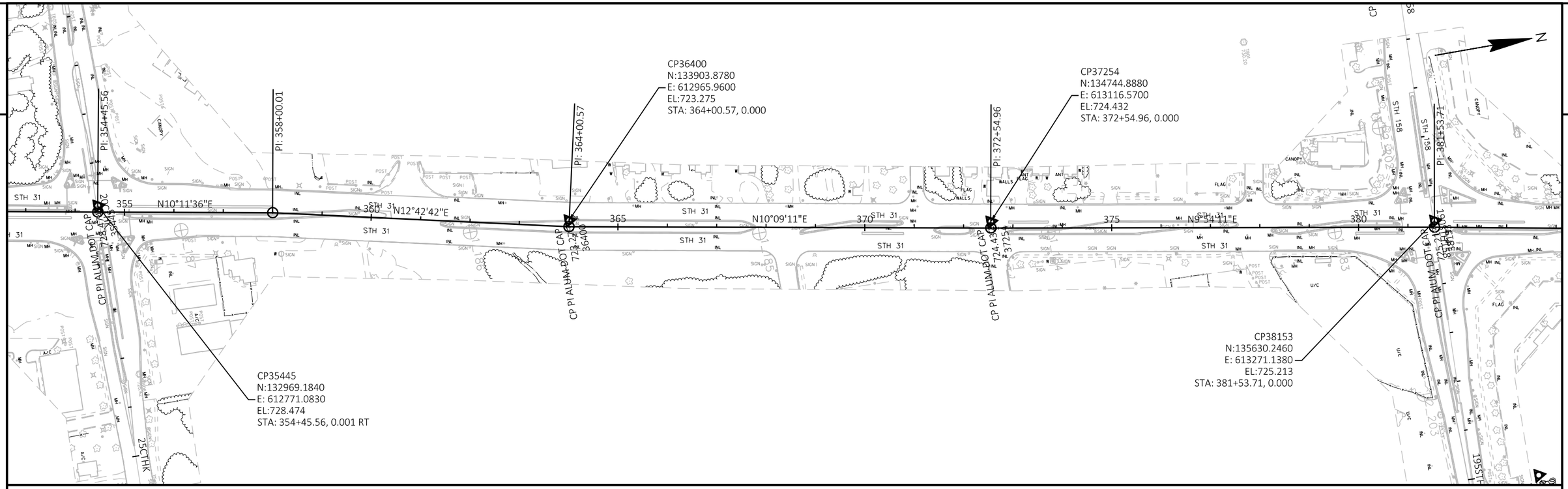
FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - Plan 1 IN 100 FT
PLOT DATE : 4/28/2022 4:58 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

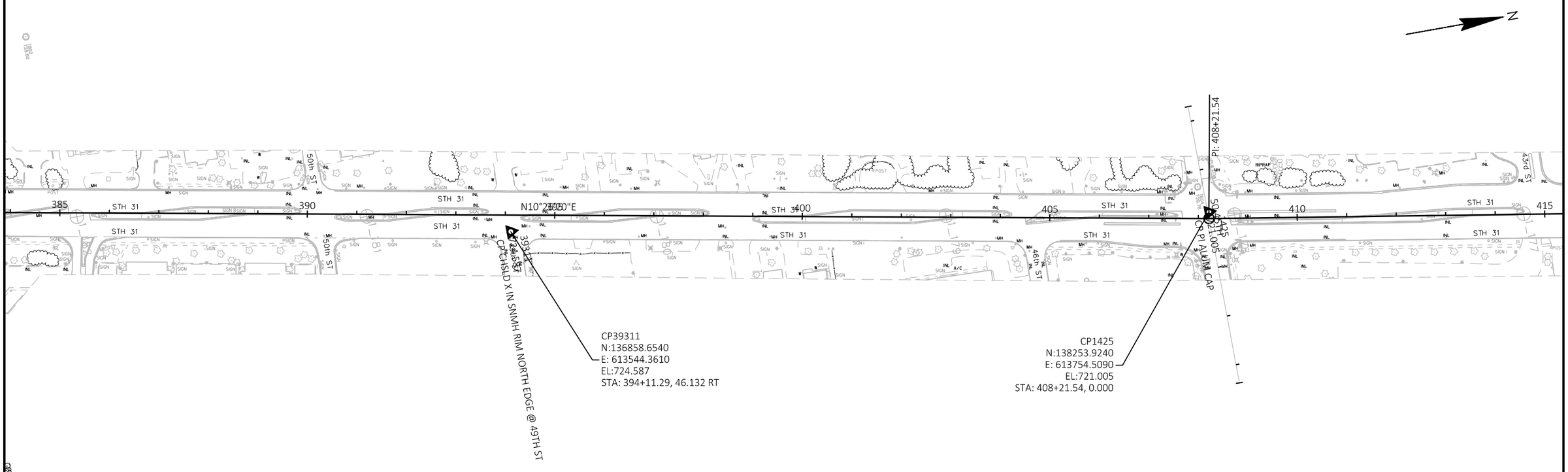


PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	ALIGNMENT - STH 31	SHEET 268	E

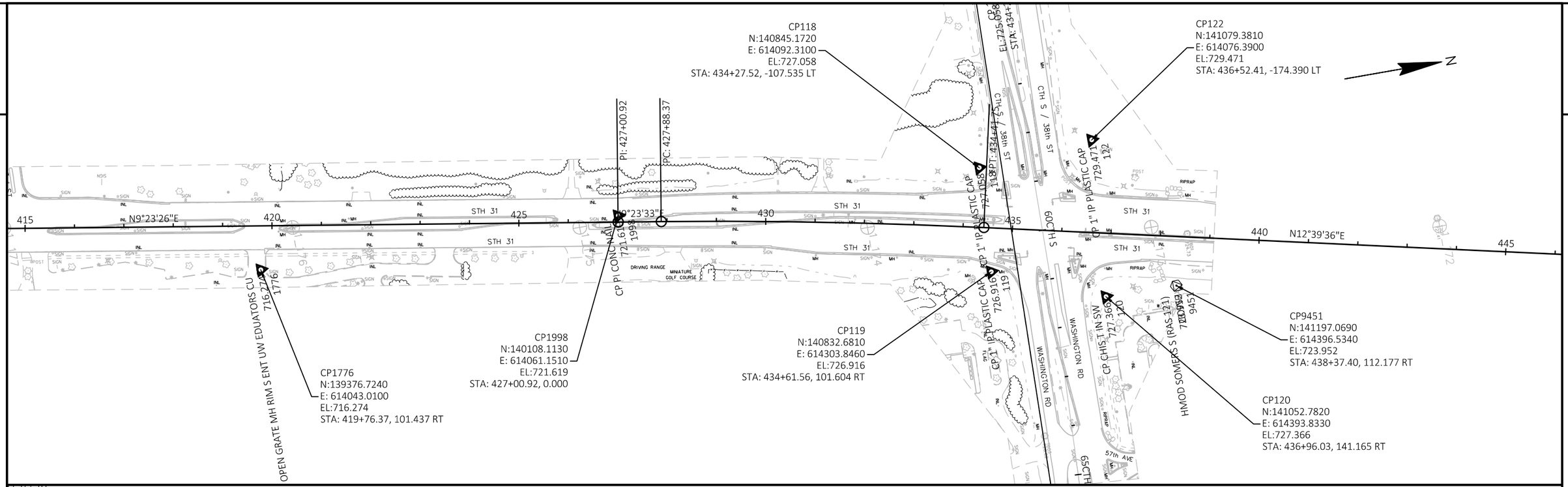
FILE NAME : N:\PDS\C3D\33300700\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 4/28/2022 5:02 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:200 FT





PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	ALIGNMENT	SHEET 269	E


CP118
N:140845.1720
E: 614092.3100
EL:727.058
STA: 434+27.52, -107.535 LT
CP122
N:141079.3810
E: 614076.3900
EL:729.471
STA: 436+52.41, -174.390 LT
N
PI: 427+00.92
PC: 427+88.37
CP PI CONC MON
721.619
1998
CP1998
N:140108.1130
E: 614061.1510
EL:721.619
STA: 427+00.92, 0.000
CP119
N:140832.6810
E: 614303.8460
EL:726.916
STA: 434+61.56, 101.604 RT
CP1776
N:139376.7240
E: 614043.0100
EL:716.274
STA: 419+76.37, 101.437 RT
OPEN GRATE MH RIM S ENT UW EDUATORS CU
716.274
1776
CP 1" IP PLASTIC CAP
727.058
118
CP 1" IP PLASTIC CAP
729.471
122
CP 1" IP PLASTIC CAP
726.916
119
CP CHIS T IN SW
727.369
120
HMOD SOMERS S (RAS 121)
9451
CP9451
N:141197.0690
E: 614396.5340
EL:723.952
STA: 438+37.40, 112.177 RT
CP120
N:141052.7820
E: 614393.8330
EL:727.366
STA: 436+96.03, 141.165 RT
CTH S / 38th ST
S HOOCK
WASHINGTON RD
57th AVE
STH 31
N9°23'26"E
N12°39'36"E
415
420
425
430
435
440
445
DRIVING RANGE
MINIATURE GOLF COURSE
RIPRAP
SIGN
INL
MH
POST

3330-07-70

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0008	204.0100	Removing Concrete Pavement	SY	203.000	203.000
0010	204.0109.S	Removing Concrete Surface Partial Depth	SF	6,402.000	6,402.000
0012	204.0110	Removing Asphaltic Surface	SY	85.000	85.000
0014	204.0150	Removing Curb & Gutter	LF	717.000	717.000
0016	204.0155	Removing Concrete Sidewalk	SY	777.000	777.000
0018	204.0195	Removing Concrete Bases	EACH	69.000	69.000
0022	204.9060.S	Removing (item description) 01. Traffic Signals STH 31 & CTH S	EACH	1.000	1.000
0024	204.9060.S	Removing (item description) 02. Traffic Signals STH 31 & STH 158	EACH	1.000	1.000
0026	204.9060.S	Removing (item description) 03. Traffic Signals STH 31 & CTH K	EACH	1.000	1.000
0028	204.9060.S	Removing (item description) 04. Traffic Signals STH 31 & 67TH ST	EACH	1.000	1.000
0030	204.9060.S	Removing (item description) 05. Removing Loop Detector Wire & Lead-in Cable STH 31 & CTH S	EACH	1.000	1.000
0032	204.9060.S	Removing (item description) 06. Removing Loop Detector Wire & Lead-in Cable STH 31 & STH 158	EACH	1.000	1.000
0034	204.9060.S	Removing (item description) 07. Removing Loop Detector Wire & Lead-in Cable STH 31 & CTH K	EACH	1.000	1.000
0036	204.9060.S	Removing (item description) 08. Removing Loop Detector Wire & Lead-in Cable STH 31 & 67TH ST	EACH	1.000	1.000
0038	205.0100	Excavation Common	CY	14.000	14.000
0040	209.2500	Backfill Granular Grade 2	TON	696.000	696.000
0042	213.0100	Finishing Roadway (project) 01. 3330-07-70	EACH	1.000	1.000
0046	305.0110	Base Aggregate Dense 3/4-Inch	TON	9.000	9.000
0052	390.0303	Base Patching Concrete	SY	1,208.000	1,208.000
0054	390.0403	Base Patching Concrete Shes	SY	496.000	496.000
0056	415.0090	Concrete Pavement 9-Inch	SY	74.000	74.000
0058	416.0610	Drilled Tie Bars	EACH	1,725.000	1,725.000
0060	416.0620	Drilled Dowel Bars	EACH	5,749.000	5,749.000
0062	416.1715	Concrete Pavement Repair SHES	SY	704.000	704.000
0064	416.1725	Concrete Pavement Replacement SHES	SY	2,001.000	2,001.000
0066	420.1000	Continuous Diamond Grinding Concrete Pavement	SY	118,722.000	118,722.000
0068	465.0105	Asphaltic Surface	TON	85.000	85.000
0074	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	647.000	647.000
0076	601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	LF	352.000	352.000
0078	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	70.000	70.000
0080	602.0405	Concrete Sidewalk 4-Inch	SF	3,690.000	3,690.000
0082	602.0410	Concrete Sidewalk 5-Inch	SF	4,389.000	4,389.000
0084	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	120.000	120.000
0090	611.8110	Adjusting Manhole Covers	EACH	1.000	1.000
0092	611.8115	Adjusting Inlet Covers	EACH	12.000	12.000
0098	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3330-70-70	EACH	1.000	1.000
0102	619.1000	Mobilization	EACH	0.900	0.900
0104	620.0300	Concrete Median Sloped Nose	SF	28.000	28.000
0108	625.0500	Salvaged Topsoil	SY	36.000	36.000
0110	627.0200	Mulching	SY	36.000	36.000
0112	628.1504	Silt Fence	LF	1,809.000	1,809.000
0114	628.1520	Silt Fence Maintenance	LF	1,809.000	1,809.000
0116	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0118	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0120	628.7015	Inlet Protection Type C	EACH	150.000	150.000

3330-07-70

Line	Item	Item Description	Unit	Total	Qty
0122	628.7020	Inlet Protection Type D	EACH	21.000	21.000
0124	629.0210	Fertilizer Type B	CWT	0.300	0.300
0126	630.0140	Seeding Mixture No. 40	LB	7.500	7.500
0128	630.0200	Seeding Temporary	LB	12.000	12.000
0130	630.0500	Seed Water	MGAL	0.600	0.600
0132	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	16.000	16.000
0134	637.2210	Signs Type II Reflective H	SF	524.500	524.500
0136	637.2215	Signs Type II Reflective H Folding	SF	238.720	238.720
0138	637.2230	Signs Type II Reflective F	SF	44.000	44.000
0140	638.2102	Moving Signs Type II	EACH	16.000	16.000
0142	638.2602	Removing Signs Type II	EACH	80.000	80.000
0144	638.3000	Removing Small Sign Supports	EACH	16.000	16.000
0146	642.5001	Field Office Type B	EACH	0.900	0.900
0148	643.0300	Traffic Control Drums	DAY	89,147.000	89,147.000
0150	643.0410	Traffic Control Barricades Type II	DAY	180.000	180.000
0152	643.0420	Traffic Control Barricades Type III	DAY	8,887.000	8,887.000
0154	643.0705	Traffic Control Warning Lights Type A	DAY	17,802.000	17,802.000
0156	643.0715	Traffic Control Warning Lights Type C	DAY	11,155.000	11,155.000
0158	643.0800	Traffic Control Arrow Boards	DAY	414.000	414.000
0160	643.0900	Traffic Control Signs	DAY	19,909.000	19,909.000
0162	643.0920	Traffic Control Covering Signs Type II	EACH	100.000	100.000
0164	643.1050	Traffic Control Signs PCMS	DAY	48.000	48.000
0166	643.1070	Traffic Control Cones 42-Inch	DAY	64,616.000	64,616.000
0168	643.4100.S	Traffic Control Interim Lane Closure	EACH	200.000	200.000
0170	643.5000	Traffic Control	EACH	0.900	0.900
0172	644.1810	Temporary Pedestrian Barricade	LF	1,200.000	1,200.000
0174	646.1020	Marking Line Epoxy 4-Inch	LF	43,175.000	43,175.000
0176	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	50,671.000	50,671.000
0178	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	17,961.000	17,961.000
0180	646.5020	Marking Arrow Epoxy	EACH	145.000	145.000
0182	646.5120	Marking Word Epoxy	EACH	26.000	26.000
0184	646.6120	Marking Stop Line Epoxy 18-Inch	LF	858.000	858.000
0186	646.7120	Marking Diagonal Epoxy 12-Inch	LF	153.000	153.000
0188	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	4,531.000	4,531.000
0190	646.8120	Marking Curb Epoxy	LF	2,765.000	2,765.000
0192	646.8220	Marking Island Nose Epoxy	EACH	90.000	90.000
0194	646.9000	Marking Removal Line 4-Inch	LF	2,395.000	2,395.000
0196	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	4,000.000	4,000.000
0198	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	38,612.000	38,612.000
0200	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	20,967.000	20,967.000
0202	649.0220	Temporary Marking Line Epoxy 8-Inch	LF	5,717.000	5,717.000
0210	650.8000	Construction Staking Resurfacing Reference	LF	12,412.000	12,412.000
0212	650.8500	Construction Staking Electrical Installations (project) 01. 3330-07-70	LS	1.000	1.000
0214	650.9000	Construction Staking Curb Ramps	EACH	7.000	7.000
0216	650.9910	Construction Staking Supplemental Control (project) 01. 3330-07-70	LS	1.000	1.000
0222	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	5,153.000	5,153.000
0224	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,866.000	1,866.000
0226	652.0615	Conduit Special 3-Inch	LF	4,709.000	4,709.000
0228	652.0800	Conduit Loop Detector	LF	10,416.000	10,416.000

Line	Item	Item Description	Unit	Total	Qty
0230	653.0135	Pull Boxes Steel 24x36-Inch	EACH	37.000	37.000
0232	653.0140	Pull Boxes Steel 24x42-Inch	EACH	67.000	67.000
0234	653.0905	Removing Pull Boxes	EACH	113.000	113.000
0236	654.0101	Concrete Bases Type 1	EACH	25.000	25.000
0238	654.0102	Concrete Bases Type 2	EACH	15.000	15.000
0240	654.0105	Concrete Bases Type 5	EACH	13.000	13.000
0242	654.0110	Concrete Bases Type 10	EACH	4.000	4.000
0244	654.0113	Concrete Bases Type 13	EACH	4.000	4.000
0246	654.0120	Concrete Bases Type 10-Special	EACH	11.000	11.000
0248	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	4.000	4.000
0250	655.0230	Cable Traffic Signal 5-14 AWG	LF	4,404.000	4,404.000
0252	655.0240	Cable Traffic Signal 7-14 AWG	LF	4,357.000	4,357.000
0254	655.0270	Cable Traffic Signal 15-14 AWG	LF	12,297.000	12,297.000
0256	655.0320	Cable Type UF 2-10 AWG Grounded	LF	4,415.000	4,415.000
0258	655.0510	Electrical Wire Traffic Signals 12 AWG	LF	3,578.000	3,578.000
0260	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	11,897.000	11,897.000
0262	655.0610	Electrical Wire Lighting 12 AWG	LF	5,265.000	5,265.000
0264	655.0700	Loop Detector Lead In Cable	LF	43,617.000	43,617.000
0266	655.0800	Loop Detector Wire	LF	26,556.000	26,556.000
0268	655.0900	Traffic Signal EVP Detector Cable	LF	2,085.000	2,085.000
0270	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. STH 31 & CTH S	LS	1.000	1.000
0272	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. STH 31 & STH 158	LS	1.000	1.000
0274	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. STH 31 & CTH K	LS	1.000	1.000
0276	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. STH 31 & 67TH ST	LS	1.000	1.000
0278	657.0100	Pedestal Bases	EACH	24.000	24.000
0280	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	13.000	13.000
0282	657.0310	Poles Type 3	EACH	13.000	13.000
0284	657.0322	Poles Type 5-Aluminum	EACH	13.000	13.000
0286	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	9.000	9.000
0288	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	8.000	8.000
0290	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	8.000	8.000
0292	657.0605	Luminaire Arms Single Member 4 1/2-Inch Clamp 4-FT	EACH	13.000	13.000
0294	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	26.000	26.000
0296	658.0173	Traffic Signal Face 3S 12-Inch	EACH	83.000	83.000
0298	658.0174	Traffic Signal Face 4S 12-Inch	EACH	24.000	24.000
0300	658.0416	Pedestrian Signal Face 16-Inch	EACH	30.000	30.000
0302	658.0500	Pedestrian Push Buttons	EACH	8.000	8.000
0304	658.5069	Signal Mounting Hardware (location) 01. STH 31 & CTH S	LS	1.000	1.000
0306	658.5069	Signal Mounting Hardware (location) 02. STH 31 & STH 158	LS	1.000	1.000
0308	658.5069	Signal Mounting Hardware (location) 03. STH 31 & CTH K	LS	1.000	1.000
0310	658.5069	Signal Mounting Hardware (location) 04. STH 31 & 67TH ST	LS	1.000	1.000
0312	659.1125	Luminaires Utility LED C	EACH	45.000	45.000
0314	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	171.000	171.000
0316	661.0200	Temporary Traffic Signals for Intersections (location) 01. STH 31 & CTH S	LS	1.000	1.000
0318	661.0200	Temporary Traffic Signals for Intersections (location) 02. STH 31 & STH 158	LS	1.000	1.000
0320	661.0200	Temporary Traffic Signals for Intersections (location) 03. STH 31 & CTH K	LS	1.000	1.000
0322	661.0200	Temporary Traffic Signals for Intersections (location) 04. STH 31 & 67TH ST	LS	1.000	1.000
0324	661.0300	Generators	DAY	4.000	4.000
0326	670.0100	Field System Integrator	LS	1.000	1.000

Line	Item	Item Description	Unit	Total	Qty
0328	670.0200	ITS Documentation	LS	1.000	1.000
0330	671.0132	Conduit HDPE 3-Duct 2-Inch	LF	1,120.000	1,120.000
0332	671.0232	Conduit HDPE Directional Bore 3-Duct 2-Inch	LF	493.000	493.000
0334	673.0105	Communication Vault Type 1	EACH	1.000	1.000
0336	677.0200	Install Camera Assembly	EACH	4.000	4.000
0338	678.0036	Install Fiber Optic Cable Outdoor Plant 36-CT	LF	4,261.000	4,261.000
0340	678.0200	Fiber Optic Splice Enclosure	EACH	1.000	1.000
0342	678.0300	Fiber Optic Splice	EACH	40.000	40.000
0344	678.0500	Communication System Testing	LS	1.000	1.000
0346	678.0600	Install Ethernet Switches	EACH	1.000	1.000
0348	690.0150	Sawing Asphalt	LF	914.000	914.000
0350	690.0250	Sawing Concrete	LF	9,776.000	9,776.000
0352	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	22.000	22.000
0354	740.0440	Incentive IRI Ride	DOL	12,412.000	12,412.000
0356	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,100.000	2,100.000
0358	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	5,400.000	5,400.000
0360	SPV.0045	Special 01. Temporary Detectable Warning Field	DAY	130.000	130.000
0362	SPV.0060	Special 01. Install Poles Type 10	EACH	3.000	3.000
0364	SPV.0060	Special 02. Install Poles Type 9 Special	EACH	11.000	11.000
0366	SPV.0060	Special 03. Install Poles Type 12	EACH	4.000	4.000
0368	SPV.0060	Special 04. Install Monotube Arms 15-FT	EACH	1.000	1.000
0370	SPV.0060	Special 05. Install Monotube Arms 20-FT	EACH	1.000	1.000
0372	SPV.0060	Special 06. Install Monotube Arms 25-FT	EACH	1.000	1.000
0374	SPV.0060	Special 07. Install Monotube Arms 30-FT	EACH	1.000	1.000
0376	SPV.0060	Special 08. Install Monotube Arms 35-FT Type 9/10 Spec Pole	EACH	4.000	4.000
0378	SPV.0060	Special 09. Install Monotube Arms 40-FT Type 9/10 Spec Pole	EACH	6.000	6.000
0380	SPV.0060	Special 10. Install Monotube Arms 45-FT Type 9/10 Spec Pole	EACH	2.000	2.000
0382	SPV.0060	Special 11. Install Monotube Arms 50-FT	EACH	3.000	3.000
0384	SPV.0060	Special 12. Install Monotube Arms 55-FT	EACH	1.000	1.000
0386	SPV.0060	Special 13. Install Luminaire Arms Steel 15-FT	EACH	6.000	6.000
0388	SPV.0060	Special 14. Trnspt & Install State Furn Traffic Signal Cabinet STH 31 & CTH S	EACH	1.000	1.000
0390	SPV.0060	Special 15. Trnspt & Install State Furn Traffic Signal Cabinet STH 31 & STH 158	EACH	1.000	1.000
0392	SPV.0060	Special 16. Trnspt & Install State Furn Traffic Signal Cabinet STH 31 & CTH K	EACH	1.000	1.000
0394	SPV.0060	Special 17. Trnspt & Install State Furn Traffic Signal Cabinet STH 31 & 67TH ST	EACH	1.000	1.000
0396	SPV.0060	Special 18. Trnspt Traffic Signal & Inter Lighting Materials STH 31 & CTH S	EACH	1.000	1.000
0398	SPV.0060	Special 19. Trnspt Traffic Signal & Inter Lighting Materials STH 31 & STH 158	EACH	1.000	1.000
0400	SPV.0060	Special 20. Trnspt Traffic Signal & Inter Lighting Materials STH 31 & CTH K	EACH	1.000	1.000
0402	SPV.0060	Special 21. Trnspt Traffic Signal & Inter Lighting Materials STH 31 & 67TH ST	EACH	1.000	1.000
0404	SPV.0060	Special 22. Trnspt & Install State Furn EVP Heads STH 31 & CTH S	EACH	1.000	1.000
0406	SPV.0060	Special 23. Remove, Salvage, & Reinstall GPS EVP System STH 31 & STH 158	EACH	1.000	1.000
0408	SPV.0060	Special 24. Remove, Salvage, & Reinstall GPS EVP System STH 31 & CTH K	EACH	1.000	1.000
0410	SPV.0060	Special 25. Remove, Salvage, & Reinstall GPS EVP System STH 31 & 67TH ST	EACH	1.000	1.000
0412	SPV.0060	Special 26. Remove, Salvage, & Reinstall GPS EVP System STH 31 & CTH S	EACH	1.000	1.000
0414	SPV.0060	Special 27. Trnspt and Install State Furn Audible Ped Signal System STH 31 & CTH S	EACH	1.000	1.000
0416	SPV.0060	Special 28. Trnspt and Install State Furn Audible Ped Signal System STH 31 & STH 158	EACH	1.000	1.000
0418	SPV.0060	Special 29. Trnspt and Install State Furn Audible Ped Signal System STH 31 & 67TH ST	EACH	1.000	1.000
0420	SPV.0060	Special 30. Temporary Vehicle Detection System STH 31 & CTH K	EACH	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0422	SPV.0060	Special 31. Temporary Vehicle Detection System STH 31 & 67TH ST	EACH	1.000	1.000
0424	SPV.0060	Special 32. Install Fiber Optic Communications in Cabinet STH 31 & 67TH ST	EACH	1.000	1.000
0426	SPV.0060	Special 33. Install State Furn Radio Antenna 5.8 GHZ STH 31 & CTH S	EACH	1.000	1.000
0428	SPV.0060	Special 34. Install State Furn Radio Antenna 5.8 GHZ STH 31 & STH 158	EACH	2.000	2.000
0430	SPV.0060	Special 35. Install State Furn Radio Antenna 5.8 GHZ STH 31 & CTH K	EACH	1.000	1.000
0432	SPV.0060	Special 36. Install State Furn Radio Antenna 5.8 GHZ STH 31 & 67TH ST	EACH	1.000	1.000
0434	SPV.0060	Special 37. Install State Furn Radio Antenna 5.8 GHZ STH 31 & 45TH ST	EACH	1.000	1.000
0436	SPV.0060	Special 38. Install Poles Type 9	EACH	1.000	1.000
0438	SPV.0060	Special 39. Temporary EVP System STH 31 & CTH S	EACH	1.000	1.000
0440	SPV.0060	Special 40. Exposing Existing Infrastructure Paved Area	EACH	34.000	34.000
0442	SPV.0060	Special 41. Exposing Existing Infrastructure Unpaved Area	EACH	24.000	24.000
0444	SPV.0090	Special 01. Fiber Optic Warning Tape	LF	3,502.000	3,502.000
0446	SPV.0195	Special 01. Joint and Crack Repair	TON	89.000	89.000
0448	SPV.0195	Special 02. Asphaltic Repair	TON	88.000	88.000
0450	SPV.0195	Special 03. Management of Solid Waste	TON	240.400	240.400

204.0109.S
REMOVING CONCRETE
SURFACE
PARTIAL DEPTH

STATION	-	STATION	OFFSET	LOCATION	SF
350+87	-	353+92	RT	STH 83	1254
354+98	-	357+99	LT	STH 83	1217
369+94	-	370+78	RT	STH 83	338
372+92	-	373+72	LT	STH 83	338
379+95	-	380+92	RT	STH 83	392
381+93	-	383+36	LT	STH 83	543
406+10	-	407+63	RT	STH 83	607
408+63	-	410+78	LT	STH 83	893
190+60	-	191+73	LT	STH 158	233
18+68	-	19+35	RT	CTH K	144
20+65	-	22+61	LT	CTH K	443
		TOTAL			**6402**

420.1000
CONTINOUS
DIAMOND GRINDING
CONCRETE PAVEMENT

STATION	-	STATION		LOCATION	SY
312+88	-	426+60	NB	STH 31	58097
312+88	-	427+42	SB	STH 31	60625
		TOTAL			**118722**

JOINT AND CRACK REPAIR

LOCATION		SPV.0195.01 JOINT AND CRACK REPAIR TON
INSIDE CURB	NB	7
LANE 1-2	NB	20
LANE 2-3	NB	29
INSIDE CURB	SB	9
LANE 1-2	SB	15
LANE 2-3	SB	9
		89

CONCRETE BASE PATCHING

LOCATION		390.0303 BASE PATCHING CONCRETE SY	390.0403 BASE PATCHING CONCRETE SHES SY	* 416.0610 DRILLED TIE BARS EACH	* 416.0620 DRILLED DOWEL BARS EACH	* 690.0250 SAWING CONCRETE LF
BEGIN TO 67TH ST	NB	136	96	116	557	580
67TH ST TO CTH K	NB	144	96	120	576	600
CTH K TO STH 158	NB	192	40	116	557	580
STH 158 TO 45TH ST	NB	168	32	100	480	500
45TH ST TO END	NB	104	32	68	326	340
BEGIN TO 67TH ST	SB	112	48	80	384	400
67TH ST TO CTH K	SB	72	16	44	211	220
CTH K TO STH 158	SB	144	56	100	480	500
STH 158 TO 45TH ST	SB	72	48	60	288	300
45TH ST TO END	SB	64	32	48	230	240
TOTAL		1,208	496	852	4,090	4,260

NOTE:
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE PAVEMENT REPLACEMENT

LOCATION	416.0610 * DRILLED TIE BARS EACH	416.0620 * DRILLED DOWEL BARS EACH	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	690.0150 SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	SPV.0195.02 ASPHALTIC REPAIR TON
STH 31 & 67TH ST	148	330	146	392	268	856	38
STH 31 & CTH K	182	442	236	588	72	1,098	4
STH 31 & STH 158	204	514	219	636	--	1,254	--
STH 31 & CTH S	109	374	102	385	574	796	46
TOTAL	643	1,659	704	2,001	914	4,004	88

NOTE:
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE CURB RAMPS

LOCATION		204.0100 REMOVING CONCRETE PAVEMENT SY	* 204.0150 REMOVING CURB & GUTTER LF	* 204.0155 REMOVING CONCRETE SIDEWALK SY	205.0100 EXCAVATION COMMON CY	305.0115 BASE AGGREGATE DENSE 3/4-INCH TON	415.0090 CONCRETE PAVEMENT 9-INCH SY	* 416.0610 DRILLED TIE BARS EACH	601.0413 CONCRETE CURB & GUTTER SLOPED 30-INCH TYPE G LF	601.0555 SLOPED 36-INCH TYPE A LF	* 602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 DETECTABLE WARNING FIELD YELLOW SF	* 611.8115 ADJUSTING INLETS COVERS EACH	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	* 690.0250 SAWING CONCRETE LF
STH 31/67TH STREET	NE	--	20	25	2	3	--	9	--	20	70	8	--	--	25
STH 31/CTH S	SW ISLAND	40	--	18	--	--	12	34	82	--	231	24	--	6	100
STH 31/CTH S	SW	--	25	--	6	3	--	11	--	25	678	8	--	--	30
STH 31/CTH S	SE ISLAND	68	--	--	--	--	28	43	105	--	395	24	1	6	145
STH 31/CTH S	SE	--	25	--	6	3	--	11	--	25	68	8	--	--	30
STH 31/CTH S	NE ISLAND	56	--	28	--	--	24	39	95	--	332	24	1	7	125
STH 31/CTH S	NW ISLAND	39	--	16	--	--	10	29	70	--	220	24	--	9	95
TOTAL		**203**	**70**	**87**	**14**	**9**	**74**	**176**	**352**	**70**	**1,994**	**120**	**2**	**28**	**550**

NOTE:
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CURB AND GUTTER REPAIR

LOCATION		204.0110 REMOVING ASPHALTIC SURFACE SY	* 204.0150 REMOVING CURB & GUTTER LF	* 204.0155 REMOVING CONCRETE SIDEWALK SY	* 416.0610 DRILLED TIE BARS EACH	465.0105 ASPHALTIC SURFACE SY	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	611.8110 ADJUSTING MANHOLE COVERS EACH	* 611.8115 ADJUSTING INLET COVERS EACH	* 690.0250 SAWING CONCRETE LF	602.0405 CONCRETE SIDEWALK 4-INCH SF	* 602.0410 CONCRETE SIDEWALK 5-INCH SF
BEGIN TO 67TH ST	NB	--	5	--	1	--	5	--	--	10	--	--
67TH ST TO CTH K	NB	--	8	--	2	--	8	--	--	13	--	--
CTH K TO STH 158	NB	--	29	--	7	--	29	1	1	59	--	--
STH 158 TO 45TH ST	NB	--	40	--	9	--	40	--	2	80	--	--
45TH ST TO END	NB	--	14	--	3	--	14	--	1	29	--	--
BEGIN TO 67TH ST	SB	--	14	--	3	--	14	--	1	29	--	--
67TH ST TO CTH K	SB	--	26	--	6	--	26	--	2	56	--	--
CTH K TO STH 158	SB	--	37	--	9	--	37	--	1	82	--	--
STH 158 TO 45TH ST	SB	--	28	--	6	--	28	--	1	58	--	--
45TH ST TO END	SB	--	29	--	8	--	29	--	1	49	--	--
STH 31/67TH STREET	SIGNAL LOOPS	85	88	10	--	85	88	--	--	123	--	65
STH 31/CTH K	SIGNAL LOOPS	--	107	190	--	--	107	--	--	132	1,190	480
STH 31/STH 158	SIGNAL LOOPS	--	129	325	--	--	129	--	--	159	1,050	1,850
STH 31/CTH S	SIGNAL LOOPS	--	93	165	--	--	93	--	--	83	1,450	--
	TOTAL	**85**	**647**	**690**	**54**	**85**	**647**	**1**	**10**	**962**	**3,690**	**2,395**

NOTE:
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC CONTROL

					*643.0300		*643.0420		*643.0705		643.0715		643.0800		*643.0900		643.0105		643.1070		646.9000	646.9010	649.0120		*649.0150		649.0220
									WARNING LIGHTS								SIGNS PCMS				MARKING REMOVAL LINE		TEMPORARY MARKING LINE EPOXY 4-INCH		TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH		
				DURATION	DRUMS		BARRICADES TYPE III		TYPE A		TYPE C		ARROW BOARDS		SIGNS				CONES 42-INCH		4-INCH	WATER BLASTING 4-INCH	(WHITE)	(YELLOW)	(WHITE)	(YELLOW)	TEMPORARY MARKING LINE EPOXY 8-INCH
LOCATION	STA	TO	STA	# OF DAYS	EACH**	DAYS	EACH**	DAYS	EACH**	DAYS	EACH**	DAYS	EACH**	DAYS	EACH**	DAYS	EACH**	DAYS	EACH**	DAYS	LF	LF	LF	LF	LF	LF	LF
STAGE 1	BEGIN	TO	326+50	46	245	11,270	8	368	14	644	100	4,600	2	92	23	1,058	--	--	52	2,392	1,200	1,000	590	--	4,510	--	--
STH 31 NB	326+50	TO	354+50	46	60	2,760	8	368	16	736	--	--	--	--	20	920	--	--	94	4,324	--	--	2,560	--	--	--	292
	354+50	TO	381+50	46	48	2,208	7	322	14	644	--	--	--	--	18	828	--	--	77	3,542	--	--	2,430	--	--	--	--
	381+50	TO	END	46	106	4,876	14	644	28	1,288	--	--	--	--	33	1,518	--	--	136	6,256	--	--	3,873	--	1,145	--	50
STH 31 SB	BEGIN	TO	326+50	46	35	1,610	4	184	8	368	--	--	--	--	13	598	--	--	40	1,840	--	--	1,225	--	--	--	--
	326+50	TO	354+50	46	49	2,254	6	276	12	552	--	--	--	--	13	598	--	--	80	3,680	--	--	2,495	--	--	--	215
	354+50	TO	381+50	46	52	2,392	9	414	18	828	--	--	--	--	22	1,012	--	--	74	3,404	--	--	2,120	--	--	--	--
	381+50	TO	END	46	339	15,594	15	690	30	1,380	40	1,840	2	92	45	2,070	--	--	161	7,406	--	1,000	5,480	--	5,472	--	58
Stage 2	BEGIN	TO	326+50	47	212	9,964	5	235	10	470	34	1,598	2	94	22	1,034	--	--	22	1,034	--	1,000	--	1,137	2,095	2,310	585
STH 31 NB	326+50	TO	354+50	47	32	1,504	4	188	8	376	--	--	--	--	15	705	--	--	86	4,042	--	--	--	2,280	--	--	830
	354+50	TO	381+50	47	43	2,021	5	235	10	470	--	--	--	--	14	658	--	--	72	3,384	--	--	--	1,970	--	--	397
	381+50	TO	END	47	71	3,337	8	376	16	752	--	--	--	--	27	1,269	--	--	122	5,734	--	--	--	3,035	--	--	765
STH 31 SB	BEGIN	TO	326+50	47	16	752	3	141	6	282	--	--	--	--	17	799	--	--	46	2,162	--	--	--	1,140	--	--	170
	326+50	TO	354+50	47	35	1,645	4	188	8	376	--	--	--	--	10	470	--	--	86	4,042	--	--	--	2,210	--	--	575
	354+50	TO	381+50	47	43	2,021	6	282	12	564	--	--	--	--	17	799	--	--	72	3,384	--	--	--	1,967	--	--	615
	381+50	TO	END	47	209	9,823	14	658	28	1,316	27	1,269	2	94	41	1,927	--	--	170	7,990	1,195	1,000	--	4,000	910	3,325	1,165
SIDEROADS	45TH STREET (OUTSIDE)			14	55	770	4	56	8	112	10	140	--	--	11	154	--	--	--	--	--	--	100	--	--	--	--
	67TH STREET (OUTSIDE)			14	125	1,750	7	98	14	196	12	168	--	--	16	224	--	--	--	--	--	--	--	--	--	--	--
	CTH K (OUTSIDE)			14	92	1,288	7	98	14	196	33	462	--	--	15	210	--	--	--	--	--	--	--	--	--	--	--
	CTH S (OUTSIDE)			14	195	2,730	11	154	22	308	60	840	3	42	24	336	--	--	--	--	--	--	--	--	--	--	--
	STH 158 (OUTSIDE)			14	112	1,568	16	224	32	448	11	154	--	--	15	210	--	--	--	--	--	--	--	--	--	--	--
	45TH STREET INSIDE)			14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	67TH STREET (INSIDE)			14	60	840	4	56	8	112	6	84	--	--	11	154	--	--	--	--	--	--	--	--	--	--	--
	CTH K (INSIDE)			14	45	630	7	98	14	196	--	--	--	--	20	280	--	--	--	--	--	--	--	--	--	--	--
	CTH S (INSIDE)			14	65	910	--	--	--	--	--	--	--	--	17	238	--	--	--	--	--	--	--	--	--	--	--
	STH 158 (INSIDE)			14	60	840	6	84	12	168	--	--	--	--	20	280	--	--	--	--	--	--	--	--	--	--	--
Full Closure	STH 50			10	73	730	20	200	40	400	--	--	--	--	11	110	1	24	--	--	--	--	--	--	--	--	--
	67TH STREET (FULL CLOSURE)			10	--	--	36	360	72	720	--	--	--	--	22	220	--	--	--	--	--	--	--	--	--	--	--
	67TH STREET			10	42	420	21	210	42	420	--	--	--	--	9	90	--	--	--	--	--	--	--	--	--	--	--
	CTH K			10	48	480	26	260	52	520	--	--	--	--	12	120	--	--	--	--	--	--	--	--	--	--	--
	CTH K (FULL CLOSURE)			10	--	--	40	400	80	800	--	--	--	--	20	200	--	--	--	--	--	--	--	--	--	--	--
	STH 158			10	50	500	26	260	52	520	--	--	--	--	12	120	--	--	--	--	--	--	--	--	--	--	--
	STH 158 (FULL CLOSURE)			10	--	--	37	370	74	740	--	--	--	--	22	220	--	--	--	--	--	--	--	--	--	--	--
	45TH STREET			10	19	190	17	170	34	340	--	--	--	--	10	100	--	--	--	--	--	--	--	--	--	--	--
	CTH S			10	82	820	19	190	38	380	--	--	--	--	20	200	1	24	--	--	--	--	--	--	--	--	--
SUBTOTAL																							20,873	17,739	14,132	5,635	
TOTAL						**88,497**		**8,857**		**17,622**		**11,155**		**414**		**19,729**		**48**		**64,616**	**2,395**	**4,000**		**38,612**		**19,767**	**5,717**

NOTES

* QUANTITIES SHOWN ELSEWHERE

** FOR INFORMATION ONLY

643.0920

TRAFFIC CONTROL
COVERING SIGNS TYPE II

	SIGNS	CYCLES	EACH
STAGE 1	25	2	50
STAGE 2	25	2	50
TOTAL			100

3

LOCATION/STAGE		643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE EACH
STAGE 1	STH 31	25
STAGE 2	STH 31	25
FULL CLOSURE	STH 31	10
FULL CLOSURE	SIDEROADS	
	STH 50	5
	67TH STREET (FULL CLOSURE)	5
	67TH STREET	5
	CTH K	5
	CTH K (FULL CLOSURE)	5
	STH 158	5
	STH 158 (FULL CLOSURE)	5
	45TH STREET	5
SIDEROADS		
	CTH S	10
	67TH STREET (OUTSIDE)	10
	CTH K (OUTSIDE)	10
	CTH S (OUTSIDE)	10
	STH 158 (OUTSIDE)	10
	45TH STREET INSIDE)	10
	67TH STREET (INSIDE)	10
	CTH K (INSIDE)	10
	CTH S (INSIDE)	10
	STH 158 (INSIDE)	10
		200

PEDESTRIAN ACCOMMODATIONS

LOCATION	DURATION # DAYS	*643.0300 DRUMS EACH**	*643.0300 DRUMS DAYS	643.0410 BARRICADES TYPE II EACH**	643.0410 BARRICADES TYPE II DAYS	*643.0705 WARNING LIGHTS TYPE A EACH**	*643.0705 WARNING LIGHTS TYPE A DAYS	*643.0900 SIGNS EACH**	*643.0900 SIGNS DAYS	SPV.0045.01 TEMPORARY DETECTABLE WARNING FIELD EACH**	SPV.0045.01 TEMPORARY DETECTABLE WARNING FIELD DAYS	644.1801 TEMPORARY PEDESTRIAN BARRICADE LF	*649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF
STH 31/STH 67	10	33	330	2	20	2	20	2	20	1	10	90	90
STH 31/CTH K	10	8	80	4	40	4	40	4	40	--	--	--	--
STH 31/STH 158	10	8	80	4	40	4	40	4	40	8	80	845	845
STH 31/CTH S	20	8	160	4	80	4	80	4	80	2	40	265	265
TOTAL			**650**		**180**		**180**		**180**		**130**	**1,200**	**1,200**

NOTES

* QUANTITIES SHOWN ELSEWHERE

** FOR INFORMATION ONLY

CONSTRUCTION STAKING

LOCATION	650.8000 RESURFACING REFERENCE LF	650.8500 ELECTRICAL INSTALLATIONS (3330-07-70) LS	650.9000 CURB RAMPS EA	650.9910 SUPPLEMENTAL CONTROL (3330-07-70) LS
STH 31	12,412	1	7	1
TOTAL	**12,412**	**1**	**7**	**1**

LOCATION	213.0100 FINISHING ROADWAY EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH	642.5001 FIELD OFFICE TYPE B EACH
STH 31	1	1	0.9
TOTAL	**1**	**1**	**0.9**

213.0100 FINISHING ROADWAY EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
1	1
1	**1**

LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
PROJECT LIMITS	--	--	1	4	--	--
BEGIN TO 67TH ST	--	--	--	--	14	2
67TH ST TO CTH K	403	403	--	--	38	5
CTH K TO STH 158	375	375	--	--	31	4
STH 158 TO 45TH ST	--	--	--	--	32	5
45TH ST TO END	1031	1031	--	--	35	5
TOTAL	**1809**	**1809**	**1**	**4**	**150**	**21**

PAVEMENT MARKING

STATION		STATION	LOCATION	646.1020 LINE EPOXY 4-INCH WHITE LF	646.1020 LINE EPOXY 4-INCH YELLOW LF	646.1020 LINE EPOXY 4-INCH YELLOW 3-FT LINE 9-FT GAP LF	646.1545 LINE GROOVED WET REF CONTRAST EPOXY 4-INCH WHITE 12.5-FT LINE 37.5-FT GAP LF	646.3545 LINE GROOVED WET REF CONTRAST EPOXY 8-INCH WHITE LF	646.3545 LINE GROOVED WET REF CONTRAST EPOXY 8-INCH WHITE 3-FT LINE 9-FT GAP LF	646.3545 LINE GROOVED WET REF CONTRAST EPOXY 8-INCH WHITE 2-FT LINE 6-FT GAP LF	646.6120 STOP LINE EPOXY 18-INCH WHITE LF	646.7120 DIAGONAL EPOXY 12-INCH WHITE LF	646.7420 CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF	646.5020 ARROW EPOXY TYPE 1 EA	646.5020 ARROW EPOXY TYPE 2 EA	646.5020 ARROW EPOXY TYPE 3 EA	646.5120 WORD EPOXY WHITE EA	646.8120 CURB EPOXY YELLOW LF	646.8220 ISLAND NOSE EPOXY YELLOW EA
313+00	-	338+00	STH 31	3277	4072	---	9438	3350	868	222	214	153	956	1	33	1	10	467	17
338+00	-	363+00	STH 31	4973	3866	170	11020	3845	127	---	158	---	943	---	30	---	5	531	21
363+00	-	388+00	STH 31	4931	3552	---	10839	2702	230	---	156	---	954	---	22	---	3	641	22
388+00	-	413+00	STH 31	4359	4800	---	9496	1870	---	---	151	---	678	---	22	4	1	438	10
413+00	-	439+00	STH 31	5471	3704	---	9878	3721	505	521	179	---	1000	---	32	---	7	688	20
		SUBTOTAL		23011	19994	170		15488	1730	743				1	139	5			
		TOTAL			**43175**		**50671**		**17961**		**858**	**153**	**4531**		**145**		**26**	**2765**	**90**

FINISHING ITEMS

	LOCATION	625.0500 SALVAGED TOPSOIL SY	629.0205 FERTILIZER TYPE B CWT	627.0200 MULCHING SY	630.0140 SEEDING MIXTURE #40 LB	630.0200 TEMPORARY SEEDING LB	630.0500 SEED WATER MGAL
STH 31/67TH STREET	NE	11	0.1	11	2.5	4	0.2
STH 31/CTH S	SW	12	0.1	12	2.5	4	0.2
STH 31/CTH S	SE	13	0.1	13	2.5	4	0.2
TOTAL		**36**	**0.3**	**36**	**7.5**	**12**	**0.6**

UTILITY LINE OPENING

LOCATION	DESCRIPTION	SPV.0060.38 EXPOSING EXISTING INFRASTRUCTURE PAVED AREA EACH	SPV.0060.39 EXPOSING EXISTING INFRASTRUCTURE UNPAVED AREA EACH	209.2500 BACKFILL GRANULAR GRADE 2 TON
STH 31/67TH STREET	PAVED	9	--	108
STH 31/67TH STREET	UNPAVED	--	5	60
STH 31/CTH K	PAVED	5	--	60
STH 31/CTH K	UNPAVED	--	1	12
STH 31/STH 158	PAVED	10	--	120
STH 31/STH 158	UNPAVED	--	7	84
STH 31/CTH S	PAVED	5	--	60
STH 31/CTH S	UNPAVED	--	6	72
UNDISTRIBUTED	PAVED	5	--	60
UNDISTRIBUTED	UNPAVED	--	5	60
	TOTAL	**34**	**24**	**696**

MANAGEMENT OF SOLID WASTE

STATION	TO	STATION	LOCATION	SPV.0195.03 MANAGEMENT OF SOLID WASTE TON
352+95	TO	394+10	RT	69.2
354+50	TO	357+50	RT	171.2
TOTAL				240.4

TYPE II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**637.2215** SIGNS TYPE II REFLC H FOLDING (SF)	**638.2602** REMOVING SIGNS TYPE II (EA)	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**634.0618** WOOD POSTS 4"X 6"X18' [EA]	**638.2102** MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	M1-94S	158 52ND ST	78	X	18	9.750								MOUNT ON SIGNAL ARM
2	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
3	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
4	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
5	R5-1(3)		36	X	36	9.000			1					MOUNT ON SIGNAL POLE
6	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
7	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
8	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
9	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
10	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
11	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
12	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
13	R10-50								1					ON SIGNAL POLE. NO LONGER NEED - POLICY
14	J3-1											1		ON SIGNAL POLE
15	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
16	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
17	M1-94S	158 52ND ST	78	X	18	9.750								MOUNT ON SIGNAL ARM
18	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
19	R5-1(3)		36	X	36	9.000			1					MOUNT ON SIGNAL POLE
20	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
21	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
22	R10-50								1					ON SIGNAL POLE. NO LONGER NEED - POLICY
23	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
24	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
25	R5-1(3)		36	X	36	9.000			1					MOUNT ON SIGNAL POLE
26	J3-1											1		MOUNT ON SIGNAL POLE
27	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
28	R6-2L(2M)		24	X	30	5.000								MOUNT ON SIGNAL POLE
29	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
30	J3-1											1		MOUUNT ON SIGNAL POLE

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING (SF)	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"X18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
31	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
32	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
33	R10-50								1					ON SIGNAL POLE. NO LONGER NEED - POLICY
34	R10-50								1					ON SIGNAL POLE. NO LONGER NEED - POLICY
35	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
36	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
37	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
38	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
39	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
40	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
41	R6-2L(2M)		24	X	30	5.000								MOUNT ON SIGNAL POLE
42	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
43	R6-2L(2M)		24	X	30	5.000								MOUNT ON SIGNAL POLE
44	M1-94S	S 38TH ST WASHINGTON RD -S	102	X	30	21.250								MOUNT ON SIGNAL ARM
45	M1-94S	S 38TH ST S WASHINGTON RD	102	X	30	21.250								MOUNT ON SIGNAL ARM
46	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
47	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
48	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
49	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
50	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
51 512	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
52	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
53	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
54	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
55	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
56	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
57	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
58	R6-2L(2M)		24	X	30	5.000								MOUNT ON SIGNAL POLE
59	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
60	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE

TYPE II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**637.2215** SIGNS TYPE II REFLC H FOLDING (SF)	**638.2602** REMOVING SIGNS TYPE II (EA)	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**634.0618** WOOD POSTS 4"X 6"X18' [EA]	**638.2102** MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
61	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
62	R6-2L(2M)		24	X	30	5.000								MOUNT ON SIGNAL POLE
63	R4-7(2S)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
64	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
65	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
66	M1-94H	67TH ST	60	X	18	7.500								MOUNT ON SIGNAL ARM
67	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
68	R5-1(3)		36	X	36	9.000			1					MOUNT ON SIGNAL POLE
69	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
70	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
71	R5-1(3)		36	X	36	9.000								MOUNT ON SIGNAL POLE
72	R4-7(2S)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
73	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
74	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
75	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
76	R6-2L(2M)		24	X	30	5.000								MOUNT ON SIGNAL ARM
77	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
78	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
79	R5-1(3)		36	X	36	9.000								MOUNT ON SIGNAL POLE
80	R5-1(3)		36	X	36	9.000								MOUNT ON SIGNAL POLE
81	M1-94H		60	X	18	7.500								MOUNT ON SIGNAL ARM
82	M1-94S	K 60TH ST	78	X	18	9.750								MOUNT ON SIGNAL ARM
83	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
84	NOT USED													
85	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
86	R4-7(2S)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
87	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
88	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
89	R5-1(3)		36	X	36	9.000								MOUNT ON SIGNAL POLE
90	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT

PROJECT NO: 3330-07-70	HWY: STH 31	COUNTY: KENOSHA	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	SIGN SIZE H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING (SF)	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	634.0618 WOOD POSTS 4"X 6"X18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
91	M1-94S	K 60TH ST	78	X	18	9.750								MOUNT ON SIGNAL ARM
92	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
93	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL ARM
94	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
95	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
96	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
97	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
98	R5-1(3)		36	X	36	9.000								MOUNT ON SIGNAL POLE
99	R6-2L(2M)		24	X	30	5.000								MOUNT ON SIGNAL POLE
100	M1-94S	31 GREEN BAY RD	108	X	18	13.500								MOUNT ON SIGNAL ARM
101	R4-7(3)		36	X	48	12.000			1					MOUNT ON SIGNAL POLE
102	R4-7(2S)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
103	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
104	W12-1D(2M)		24	X	24		4.000		1	1	1			2 FOOT MOUNTING HEIGHT
105	R6-2L(2M)		24	X	30	5.000			1					MOUNT ON SIGNAL POLE
106	R1-1F(3)		36	X	36			7.46	1					MOUNT ON SIGNAL POLE
107	R1-1F(3)		36	X	36			7	1					MOUNT ON SIGNAL POLE
108	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
109	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
110	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
111	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
112	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
113	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
114	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
115	R1-2(2S)											1		MOVE TO NEW LIGHT POLE
	UNDISTRIBUTED								5	5	5	5		
TOTALS						524.500	44.000	238.72	80	16	16	16		

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	POLES TYPE 10
3	POLES TYPE 9 SPECIAL
1	POLES TYPE 12
1	MONOTUBE ARMS 15-FT
2	MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE
1	MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS 50-FT
2	LUMINAIRE ARMS 15-FT
8	ACCESSIBLE PEDESTRIAN SIGNAL ASSEMBLIES
1	RADIO INTERCONNECT ANTENNA 5.8 GHZ
1	COHU CAMERA ASSEMBLY

REMOVING LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9060.S.08 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE EACH
STH 31 & 67TH ST	1
TOTAL	1

REMOVING TRAFFIC SIGNALS

LOCATION	204.9060.S.04 REMOVING TRAFFIC SIGNALS EACH
STH 31 & 67TH ST	1
TOTAL	1

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB10	1
SB11	1
SB12	1
SB13	1
SB14	1
SB15	1
SB16	1
SB17	1
CB1	1
TOTAL	17

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB19	1
PB20	1
TOTAL	20

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL, 16-INCH	6
TRAFFIC SIGNAL, THREE SECTION	18
HIGH PRESSURE SODIUM LAMP	7
MERCURY SWITCHES	1
BALLASTS	7
TOTAL	39

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL (FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16-INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH	HIGH PRESSURE SODIUM LAMP EACH	MERCURY SWITCHES EACH	BALLASTS EACH
CB1	--	--	--	1	--
SB1	2	2	--	--	--
SB2	--	3	--	--	--
SB3	--	--	2	--	2
SB4	--	1	1	--	1
SB5	2	2	--	--	--
SB6	--	3	--	--	--
SB7	--	--	2	--	2
SB8	1	1	--	--	--
SB10	--	2	--	--	--
SB11	--	3	--	--	--
SB12	--	--	2	--	2
SB13	1	1	--	--	--
SB14	--	2	--	--	--
SB15	--	3	--	--	--
SB16	--	--	2	--	2
SB17	--	1	1	--	1
TOTAL	6	18	7	1	7

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

PLOT DATE : 7/19/2022 8:47 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000 WISDOT / CADDS SHEET 42

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1	--	93	--
PB1	PB2	--	--	29
PB1	PB3	197	--	--
PB1	PB5	--	--	150
PB2	SB1	5	--	--
PB2	SB2	15	--	--
PB3	PB4	150	--	--
PB5	SB3	10	--	--
PB5	PB6	--	--	102
PB6	PB7	--	144	--
PB6	SB4	--	6	--
PB7	SB5	16	--	--
PB7	PB8	164	--	--
PB7	PB9	--	--	62
PB9	SB6	17	--	--
PB9	PB10	--	--	44
PB10	SB7	--	27	--
PB10	PB11	--	116	--
PB11	PB12	--	80	--
PB12	SB8	33	--	--
PB12	PB13	220	--	--
PB12	PB15	--	--	128
PB13	PB14	150	--	--
PB15	PB16	26	--	--
PB15	SB9	14	--	--
PB15	PB17	--	--	112
PB17	SB10	--	5	--
PB17	SB11	13	--	--
PB17	PB18	--	66	--
PB18	SB12	13	--	--
PB18	PB19	30	--	--
PB18	PB21	--	--	110
PB19	PB20	138	--	--
PB21	PB22	32	--	--
PB21	SB13	13	--	--
PB21	PB23	--	--	92
PB23	SB14	--	12	--
PB23	CB1	--	54	--
PB23	SB15	25	--	--
	TOTAL	1281	603	829

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	327+46, 69.2' LT	--	1
PB2	327+23, 52.5' LT	--	1
PB3	329+43, 62.8' LT	1	--
PB4	330+93, 54.9' LT	1	--
PB5	327+50, 5.7' RT	--	1
PB6	327+46, 56.6' RT	--	1
PB7	327+02, 100.2' RT	--	1
PB8	327+21, 263.1' RT	--	1
PB9	326+71, 103.8' RT	--	1
PB10	326+51, 106.7' RT	--	1
PB11	326+28, 55.8' RT	--	1
PB12	325+89, 55.6' RT	--	1
PB13	323+69, 55.7' RT	1	--
PB14	322+52, 50.9' RT	1	--
PB15	325+88, 8.8' LT	--	1
PB16	325+63, 8.5' LT	1	--
PB17	325+88, 65.2' LT	--	1
PB18	326+05, 94.1' LT	--	1
PB19	326+01, 123.4' LT	1	--
PB20	325+80, 259.5' LT	1	--
PB21	326+59, 100.8' LT	--	1
PB22	326+54, 132.6' LT	1	--
PB23	327+08, 106.2' LT	--	1
	TOTAL	8	15

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

CONCRETE BASES

SIGNAL BASE NO.	LOCATION^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
SB1	327+19, 53.0' LT	1	--	--	--	--	--	--
SB2	327+09, 58.3' LT	1	--	--	--	--	--	--
SB3	327+36, 8.1' RT	--	--	--	1	--	--	--
SB4	327+40, 54.1' RT	--	--	--	--	--	1	--
SB5	327+00, 84.2' RT	1	--	--	--	--	--	--
SB6	326+69, 87.6' RT	--	1	--	--	--	--	--
SB7	326+45, 79.9' RT	--	--	--	--	--	1	--
SB8	326+22, 55.2' RT	1	--	--	--	--	--	--
SB9	326+02, 9.3' LT	--	1	--	--	--	--	--
SB10	325+90, 61.0' LT	--	--	--	--	--	1	--
SB11	325+99, 71.5' LT	1	--	--	--	--	--	--
SB12	326+05, 81.3' LT	1	--	--	--	--	--	--
SB13	326+61, 88.0' LT	--	1	--	--	--	--	--
SB14	327+16, 115.1' LT	--	--	--	--	1	--	--
CB1	327+21, 102.2' LT	--	--	--	--	--	--	1
SB15	327+20, 87.0' LT	--	--	1	--	--	--	--
	TOTAL	6	3	1	1	1	3	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.04 SIGNAL MOUNTING HARDWARE L.S.
STH 31 & 67TH ST	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.04 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.	661.0300 GENERATORS DAY	677.0200 INSTALL CAMERA ASSEMBLY EACH
STH 31 & 67TH ST	1	1	1
TOTAL	1	1	1

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION*	656.0200.04 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
STH 31 & 67TH ST	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB16	325+89, 11.9' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	243	202
12	PB15	326+17, 11.7' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	88	217	204
13	PB16	325+85, 0.0' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	60	243	176
14	PB15	326+13, 0.3' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	217	180
21	PB4	330+93, 40.9' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	44	396	148
22	PB4	330+93, 30.2' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	68	396	172
23	PB4	330+93, 19.3' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	92	396	196
24	PB5	329+43, 40.5' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	58	246	142
25	PB5	329+43, 30.0' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	82	246	166
26	PB5	329+43, 19.2' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	106	246	190
31	PB9	326+80, 106.6' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	268	178
32	PB9	326+76, 78.8' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	268	178
41	PB20	326+04, 262.9' LT	6' x 10'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	294	178
42	PB19	326+14, 100.9' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	66	157	182
43	PB18	326+18, 73.2' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	127	180
44	PB19	326+26, 102.3' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	88	157	204
45	PB18	326+30, 74.7' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	127	202
51	PB5	327+52, 5.4' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	68	113	184
52	PB5	327+24, 5.4' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	66	113	182
61	PB14	322+52, 41.9' RT	6' x 14'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	52	619	224
62	PB14	322+52, 30.7' RT	6' x 14'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	76	619	248
63	PB14	322+53, 19.7' RT	6' x 14'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	100	619	272
64	PB13	323+70, 45.7' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	44	469	184
65	PB13	323+70, 35.4' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	68	469	208
66	PB13	323+70, 23.5' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	92	469	232
71	PB22	326+38, 103.9' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	106	200
72	PB23	326+42, 76.2' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	74	200
73	PB22	326+50, 105.4' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	106	180
74	PB23	326+54, 77.7' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	60	74	176
81	PB8	327+08, 264.5' RT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	40	401	148
82	PB7	326+93, 105.1' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	237	180
83	PB7	326+89, 77.4' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	237	180
						TOTAL	2272	8969	6076

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

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TRAFFIC SIGNAL CABLE AND WIRE (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.
SB1	HEAD 6	19
SB1	HEAD 9	19
SB1	HEAD 29	15
SB1	BUTTON	6
SB2	HEAD 34	15
SB2	BUTTON	6
SB3	HEAD 7	40
SB3	HEAD 8	19
SB3	HEAD 13	19
SB4	HEAD 2	65
SB4	HEAD 3	65
SB4	HEAD 4	65
SB5	HEAD 16	19
SB5	HEAD 26	19
SB6	HEAD 19	19
SB7	HEAD 23	65
SB7	HEAD 24	65
SB7	HEAD 27	65
SB7	HEAD 28	65
SB7	HEAD 31	15
SB7	BUTTON	6
SB8	HEAD 1	19
SB8	HEAD 14	19
SB9	HEAD 5	19
SB9	HEAD 15	19
SB10	HEAD 10	70
SB10	HEAD 11	70
SB10	HEAD 12	70
SB11	HEAD 32	15
SB11	BUTTON	6
SB12	HEAD 20	19
SB12	HEAD 22	19
SB12	HEAD 33	15
SB12	BUTTON	6
SB13	HEAD 21	19
SB13	HEAD 25	19
SB14	HEAD 17	75
SB14	HEAD 18	75
		--
	TOTAL	1245

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	84
SB1	SB2	30
SB2	SB3	159
SB3	SB4	86
SB4	SB5	114
SB5	SB6	84
SB6	SB7	86
SB7	SB8	191
SB8	SB9	131
SB9	SB10	95
SB10	SB11	27
SB11	SB12	79
SB12	SB13	100
SB13	SB14	91
SB14	CB1	40
PB1	CB1	41
PB5	SB3	20
PB6	SB4	15
PB7	SB5	26
PB9	SB6	26
PB10	SB7	37
PB11	SB7	106
PB12	SB8	43
PB15	SB9	24
PB17	SB10	15
PB18	SB12	23
PB21	SB13	23
PB23	CB1	22
	TOTAL	1818

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB14 (GPS)	115
	TOTAL	115

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	--	83	--
CB1	SB2	94	--	--
CB1	SB3	--	135	135
CB1	SB4	192	--	--
CB1	SB5	--	281	--
CB1	SB6	--	324	--
CB1	SB7	--	368	--
CB1	SB8	--	482	--
CB1	SB9	--	273	--
CB1	SB10	197	--	--
CB1	SB11	209	--	--
CB1	SB12	--	162	--
CB1	SB13	--	98	--
CB1	SB14	40	--	--
SB3	SB6	--	--	201
CB1	SB15	--	--	43
SB15	SB13	--	--	102
SB13	SB9			211
		--	--	--
	TOTAL	732	2206	692

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMINAIRE	234
SB6	LUMINAIRE	234
SB9	LUMINAIRE	234
SB13	LUMINAIRE	234
SB15	LUMINAIRE	117
		--
	TOTAL	1053

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

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POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0605 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 4-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1	--	--	--	1	--	--	--	--
SB2	1	--	--	--	--	1	--	--	--
SB5	1	--	--	--	1	--	--	--	--
SB6	--	1	1	--	--	--	--	2	2
SB8	1	--	--	--	1	--	--	--	--
SB9	--	1	1	--	--	--	--	2	2
SB11	1	--	--	--	--	1	--	--	--
SB12	1	--	--	--	1	--	--	--	--
SB13	--	1	1	--	--	--	--	2	2
SB15	--	--	--	1	--	--	1	--	1
TOTAL	6	3	3	1	4	2	1	6	7

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.01 INSTALL POLES TYPE 10 EACH	SPV.0060.02 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.03 INSTALL POLES TYPE 12 EACH	SPV.0060.04 INSTALL MONOTUBE ARMS 15-FT EACH	SPV.0060.09 INSTALL MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE EACH	SPV.0060.10 INSTALL MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.11 INSTALL MONOTUBE ARMS 50-FT EACH	SPV.0060.13 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB3	1	--	--	1	--	--	--	2	2
SB4	--	1	--	--	1	--	--	--	--
SB7	--	1	--	--	1	--	--	--	--
SB10	--	1	--	--	--	1	--	--	--
SB14	--	--	1	--	--	--	1	--	--
TOTAL	1	3	1	1	3	1	1	2	2

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

PLOT DATE : 7/19/2022 7:06 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB8	1	--
2	SB4	1	--
3	SB4	1	--
4	SB4	1	--
5	SB9	1	--
6	SB1	1	--
7	SB3	1	--
8	SB3	1	--
9	SB1	1	--
10	SB10	1	--
11	SB11	1	--
12	SB12	1	--
13	SB3	1	--
14	SB8	1	--
15	SB9	1	--
16	SB5	1	--
17	SB14	1	--
18	SB14	1	--
19	SB6	1	--
20	SB12	1	--
21	SB13	1	--
22	SB12	1	--
23	SB7	1	--
24	SB7	1	--
25	SB13	1	--
26	SB5	1	--
27	SB7	1	--
28	SB7	1	--
29	SB1	--	1
30	SB4	--	1
31	SB7	--	1
32	SB11	--	1
33	SB12	--	1
34	SB2	--	1
	TOTAL	28	6

LED MODULES SUMMARY*

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
1	SB8	--	1	1	1	--	--	--
2	SB4	--	1	1	1	--	--	--
3	SB4	--	1	1	1	--	--	--
4	SB4	--	1	1	1	--	--	--
5	SB9	--	--	--	--	1	1	1
6	SB1	--	--	--	--	1	1	1
7	SB3	--	--	--	--	1	1	1
8	SB3	--	--	--	--	1	1	1
9	SB1	--	1	1	1	--	--	--
10	SB10	--	1	1	1	--	--	--
11	SB11	--	1	1	1	--	--	--
12	SB12	--	1	1	1	--	--	--
13	SB3	--	--	--	--	1	1	1
14	SB8	--	--	--	--	1	1	1
15	SB9	--	--	--	--	1	1	1
16	SB5	--	1	1	1	--	--	--
17	SB14	--	1	1	1	--	--	--
18	SB14	--	1	1	1	--	--	--
19	SB6	--	--	--	--	1	1	1
20	SB12	--	--	--	--	1	1	1
21	SB13	--	--	--	--	1	1	1
22	SB12	--	1	1	1	--	--	--
23	SB7	--	1	1	1	--	--	--
24	SB7	--	1	1	1	--	--	--
25	SB13	--	--	--	--	1	1	1
26	SB5	--	--	--	--	1	1	1
27	SB7	--	--	--	--	1	1	1
28	SB7	--	--	--	--	1	1	1
29	SB1	1	--	--	--	--	--	--
30	SB4	1	--	--	--	--	--	--
31	SB7	1	--	--	--	--	--	--
32	SB11	1	--	--	--	--	--	--
33	SB12	1	--	--	--	--	--	--
34	SB2	1	--	--	--	--	--	--
	TOTAL	6	14	14	14	14	14	14

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

3

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.17 TRNSPT AND INSTALL STATE FURN TRAFFIC SIGNAL CABINET EACH
STH 31 & 67TH ST	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.21 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS EACH
STH 31 & 67TH ST	1
TOTAL	1

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COMMUNICATIONS EQUIPMENT

LOCATION	SPV.0060.36 INSTALL STATE FURNISHED RADIO ANTENNA 5.8 GHZ EACH
STH 31 & 67TH ST	1
TOTAL	1

REMOVE, SALVAGE, AND REINSTALL GPS EVP SYSTEM

LOCATION	SPV.0060.25 REMOVE, SALVAGE, AND REINSTALI GPS EVP SYSTEM EACH
STH 31 & 67TH ST	1
TOTAL	1

TRANSPORT AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON EQUIPMENT

LOCATION	SPV.0060.29 TRANSPORT AND INSTALL STATE FURNISHED ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM EACH
STH 31 & 67TH ST	1
TOTAL	1

TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS

LOCATION	SPV.0060.31 TEMPORARY VEH DETECT SYSTEM EACH
STH 31 & 67TH ST	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & 67TH ST
CITY OF KENOSHA
KENOSHA COUNTY

3

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
SB13	1
SB14	1
SB15	1
SB16	1
SB17	1
SB18	1
SB19	1
SB20	1
SB21	1
SB22	1
CB1	1
TOTAL	23

REMOVING LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9060.S.07 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE EACH
STH 31 & CTH K	1
TOTAL	1

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
3	POLES TYPE 9 SPECIAL
1	POLES TYPE 12
2	MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE
1	MONOTUBE ARMS 50-FT
1	RADIO INTERCONNECT ANTENNA 5.8 GHZ
1	COHU CAMERA ASSEMBLY

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB19	1
PB20	1
PB21	1
PB22	1
PB23	1
PB24	1
PB25	1
PB26	1
PB27	1
PB28	1
PB29	1
PB30	1
PB31	1
PB32	1
PB33	1
PB34	1
PB35	1
PB36	1
PB37	1
PB38	1
PB39	1
PB40	1
PB41	1
PB42	1
PB43	1
TOTAL	43

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL, 16-INCH	8
TRAFFIC SIGNAL, THREE SECTION	17
TRAFFIC SIGNAL, FIVE SECTION	2
HIGH PRESSURE SODIUM LAMP	12
MERCURY SWITCHES	1
BALLASTS	12
TOTAL	52

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL (FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16-INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FIVE SECTION EACH	HIGH PRESSURE SODIUM LAMP EACH	MERCURY SWITCHES EACH	BALLASTS EACH
CB1	--	--	--	--	1	--
SB1	1	--	--	--	--	--
SB2	1	1	--	--	--	--
SB3	--	1	1	2	--	2
SB4	--	--	--	1	--	1
SB5	1	1	--	--	--	--
SB6	1	2	--	--	--	--
SB7	--	3	--	2	--	2
SB8	--	--	--	1	--	1
SB9	1	1	--	--	--	--
SB10	--	1	--	--	--	--
SB11	1	--	--	--	--	--
SB12	--	--	1	--	--	--
SB13	1	1	--	--	--	--
SB14	1	2	--	--	--	--
SB15	--	--	--	1	--	1
SB16	--	3	--	--	--	--
SB17	--	1	--	--	--	--
SB18	--	--	--	1	--	1
SB21	--	--	--	2	--	2
SB22	--	--	--	2	--	2
TOTAL	8	17	2	12	1	12

REMOVING TRAFFIC SIGNALS

LOCATION	204.9060.S.03 REMOVING TRAFFIC SIGNALS EACH
STH 31 & CTH K	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1	--	--	150
PB1	PB2	--	--	47
PB1	PB3	158	--	--
PB1	PB5	--	--	132
PB2	SB1	6	--	--
PB2	SB2	--	22	--
PB3	PB4	150	--	--
PB5	PB6	20	--	--
PB5	PB7	--	--	106
PB6	SB3	11	--	--
PB7	PB8	--	34	--
PB8	PB9	--	--	28
PB8	PB10	234	--	--
PB8	PB11	--	--	154
PB9	SB4	5	--	--
PB9	SB5	--	12	--
PB11	SB6	14	--	--
PB11	PB13	--	--	90
PB13	SB7	--	13	--
PB13	PB14	--	--	43
PB13	PB15	--	146	--
PB14	SB8	5	--	--
PB14	SB9	16	--	--
PB15	PB16	156	--	--
PB15	PB18	--	--	138
PB16	PB17	150	--	--
PB18	PB19	24	--	--
PB18	PB20	--	--	102
PB19	SB10	15	--	--
PB20	SB11	--	5	--
PB20	PB21	--	94	--
PB21	PB22	--	34	--
PB21	PB23	247	--	--
PB21	PB24	--	--	120
PB22	SB12	5	--	--
PB22	SB13	17	--	--
PB24	PB25	23	--	--
PB24	PB26	--	--	118
PB25	SB14	10	--	--
PB26	CB1	--	--	72
PB26	SB15	30	--	--
PB7	SB16	5	--	--
PB13	SB17	30	--	--
PB21	SB18	6	--	--
	TOTAL	1337	360	1300

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	355+49, 61.9' LT	--	1
PB2	354+98, 54.0' LT	--	1
PB3	357+11, 54.5' LT	1	--
PB4	358+58, 53.1' LT	1	--
PB5	355+49, 7.9' RT	--	1
PB6	355+25, 7.9' RT	1	--
PB7	355+45, 66.0' RT	--	1
PB8	355+34, 80.1' RT	--	1
PB9	355+04, 68.9' RT	--	1
PB10	355+40, 314.4' RT	1	--
PB11	354+54, 92.7' RT	--	1
PB12	354+59, 116.9' RT	1	--
PB13	354+06, 100.6' RT	--	1
PB14	353+97, 55.0' RT	--	1
PB15	353+42, 65.0' RT	--	1
PB16	351+82, 64.5' RT	1	--
PB17	350+32, 64.5' RT	1	--
PB18	353+41, 7.7' LT	--	1
PB19	353+69, 7.7' LT	1	--
PB20	353+41, 62.8' LT	--	1
PB21	353+69, 105.9' LT	--	1
PB22	353+90, 73.4' LT	--	1
PB23	353+45, 355.3' LT	1	--
PB24	354+33, 116.2' LT	--	1
PB25	354+37, 89.7' LT	1	--
PB26	354+96, 126.1' LT	1	--
	TOTAL	11	15

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

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CONCRETE BASES

SIGNAL BASE NO.	LOCATION^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
SB1	354+91, 54.5' LT	1	--	--	--	--	--
SB2	354+79, 64.7' LT	--	--	--	--	1	--
SB3	355+12, 6.6' RT	--	1	--	--	--	--
SB4	355+01, 66.0' RT	1	--	--	--	--	--
SB5	355+09, 55.5' RT	--	--	--	--	1	--
SB6	354+53, 77.4' RT	--	1	--	--	--	--
SB7	354+13, 115.1' RT	--	--	--	--	1	--
SB8	354+02, 56.1' RT	1	--	--	--	--	--
SB9	354+14, 61.7' RT	1	--	--	--	--	--
SB10	353+86, 7.5' LT	--	2	--	--	--	--
SB11	353+47, 65.6' LT	--	--	--	1	--	--
SB12	353+91, 68.7' LT	1	--	--	--	--	--
SB13	353+84, 54.2' LT	1	--	--	--	--	--
SB14	354+39, 78.2' LT	--	1	--	--	--	--
CB1	355+11, 100.8' LT	--	--	--	--	--	1
SB15	354+94, 97.0' LT	--	--	1	--	--	--
SB16	355+50, 63.1' LT	--	--	1	--	--	--
SB17	353+87, 79.9' RT	--	--	1	--	--	--
SB18	353+70, 97.1' LT	--	--	1	--	--	--
	TOTAL	6	5	4	1	3	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.03 SIGNAL MOUNTING HARDWARE L.S.
STH 31 & CTH K	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.03 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.	661.0300 GENERATORS DAY	677.0200 INSTALL CAMERA ASSEMBLY EACH
STH 31 & CTH K	1	1	1
TOTAL	1	1	1

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION*	656.0200.03 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
STH 31 & CTH K	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

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TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB19	353+65, 2.4' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	371	180
12	PB19	353+93, 2.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	371	180
21	PB4	358+58, 41.0' LT	6' x 8'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	42	222	166
22	PB4	358+58, 30.4' LT	6' x 8'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	66	222	190
23	PB4	358+57, 20.6' LT	6' x 8'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	90	222	214
24	PB3	357+11, 41.5' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	40	372	124
25	PB3	357+11, 30.5' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	372	148
26	PB3	357+11, 19.3' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	88	372	172
31	PB12	20+94, 3.6' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	313	178
32	PB11	20+66, 3.7' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	66	293	182
41	PB23	16+33, 24.0' RT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	50	411	174
42	PB23	16+33, 11.3' RT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	74	411	198
43	PB22	19+03, 28.1' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	88	203	308
44	PB22	19+31, 28.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	76	203	192
45	PB24	19+04, 16.2' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	97	202
46	PB25	19+33, 16.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	123	202
51	PB6	355+27, 2.8' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	153	180
52	PB6	354+99, 2.8' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	68	153	184
61	PB17	350+32, 41.0' RT	6'x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	80	651	260
62	PB17	350+32, 30.9' RT	6'x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	104	651	284
63	PB17	350+32, 21.0' RT	6'x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	128	651	308
64	PB16	351+82, 42.1' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	501	202
65	PB16	351+82, 30.7' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	501	226
66	PB16	351+82, 19.7' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	110	501	250
71	PB24	19+07, 2.6' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	124	178
72	PB25	19+35, 2.6' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	124	178
81	PB10	23+26, 26.6' LT	6'x 10'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	52	446	120
82	PB10	23+25, 14.6' LT	6'x 10'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	76	446	144
83	PB9	20+97, 29.8' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	96	241	212
84	PB9	20+69, 29.8' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	241	200
85	PB11	20+95, 17.7' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	90	312	206
86	PB11	20+67, 17.8' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	92	288	208
						TOTAL	2422	10562	6350

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

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STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

ALL ITEMS CATEGORY 0020

PLOT DATE : 7/19/2022 7:08 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

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TRAFFIC SIGNAL CABLE AND WIRE (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 6	--	22
SB1	HEAD 8	19	--
SB1	HEAD 27	15	--
SB1	BUTTON	6	--
SB2	HEAD 16	60	--
SB2	HEAD 17	60	--
SB2	HEAD 34	15	--
SB2	BUTTON	6	--
SB3	HEAD 7	--	22
SB3	HEAD 12	--	22
SB4	HEAD 15	19	--
SB4	HEAD 25	--	22
SB4	HEAD 29	15	--
SB4	BUTTON	6	--
SB5	HEAD 2	65	--
SB5	HEAD 3	65	--
SB5	HEAD 4	65	--
SB5	HEAD 28	15	--
SB5	BUTTON	6	--
SB6	HEAD 18	--	22
SB6	HEAD 26	--	22
SB7	HEAD 22	60	--
SB7	HEAD 23	60	--
SB8	HEAD 1	19	--
SB8	HEAD 13	--	22
SB8	HEAD 31	15	--
SB8	BUTTON	6	--
SB9	HEAD 30	15	--
SB9	BUTTON	6	--
SB10	HEAD 5	--	22
SB10	HEAD 14	--	22
SB11	HEAD 9	75	--
SB11	HEAD 10	75	--
SB11	HEAD 11	75	--
SB12	HEAD 19	--	22
SB12	HEAD 21	19	--
SB12	HEAD 33	15	--
SB12	BUTTON	6	--
SB13	HEAD 32	15	--
SB13	BUTTON	6	--
SB14	HEAD 20	--	22
SB14	HEAD 24	--	22
		--	--
	TOTAL	904	264

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	130
SB1	SB2	40
SB2	SB3	210
SB3	SB4	194
SB4	SB5	1810
SB5	SB6	173
SB6	SB7	101
SB7	SB8	88
SB8	SB9	33
SB9	SB10	288
SB10	SB11	137
SB11	SB12	131
SB12	SB13	35
SB13	SB14	192
SB14	CB1	157
PB1	CB1	62
PB5	SB3	57
PB7	SB5	97
PB8	SB5	66
PB11	SB6	25
PB13	SB7	26
PB15	SB7	114
PB18	SB10	65
PB20	SB11	16
PB21	SB12	63
PB24	SB14	58
PB26	CB1	36
	TOTAL	4404

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB2 (GPS)	205
	TOTAL	205

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	--	130	--
CB1	SB2	--	147	--
CB1	SB3	--	189	189
CB1	SB4	--	286	--
CB1	SB5	--	296	--
CB1	SB6	--	346	--
CB1	SB7	--	405	--
CB1	SB8	--	462	--
CB1	SB9	--	472	--
CB1	SB10	--	366	--
CB1	SB11	261	--	--
CB1	SB12	--	247	--
CB1	SB13	257	--	--
CB1	SB14	--	157	--
SB3	SB16	--	--	130
SB16	SB6	--	--	139
SB6	SB17	--	--	113
CB1	SB15	--	--	66
SB15	SB14	--	--	160
SB14	SB18		--	142
SB18	SB10	--	--	201
	TOTAL	518	3503	1140

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMINAIRE	234
SB6	LUMINAIRE	234
SB10	LUMINAIRE	234
SB14	LUMINAIRE	234
SB15	LUMINAIRE	117
SB16	LUMINAIRE	117
SB17	LUMINAIRE	117
SB18	LUMINAIRE	117
	TOTAL	1404

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

PLOT DATE : 7/19/2022 7:08 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

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POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0605 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 4-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1	--	--	--	1	--	--	--	1	--
SB3	--	1	1	--	--	--	--	2	--	2
SB4	1	--	--	--	1	--	--	--	1	--
SB6	--	1	1	--	--	--	--	2	--	2
SB8	1	--	--	--	1	--	--	--	1	--
SB9	1	--	--	--	--	1	--	--	1	--
SB10	--	1	1	--	--	--	--	2	--	2
SB12	1	--	--	--	1	--	--	--	1	--
SB13	1	--	--	--	--	1	--	--	1	--
SB14	--	1	1	--	--	--	--	2	--	2
SB15	--	--	--	1	--	--	1	--	--	1
SB16	--	--	--	1	--	--	1	--	--	1
SB17	--	--	--	1	--	--	1	--	--	1
SB18	--	--	--	1	--	--	1	--	--	1
TOTAL	6	4	4	4	4	2	4	8	6	12

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.02 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.03 INSTALL POLES TYPE 12 EACH	SPV.0060.08 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.09 INSTALL MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE EACH	SPV.0060.11 INSTALL MONOTUBE ARMS 50-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB2	1	--	1	--	--	1
SB5	1	--	--	1	--	1
SB7	1	--	1	--	--	--
SB11	--	1	--	--	1	--
TOTAL	3	1	2	1	1	2

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB8	1	--	--
2	SB5	1	--	--
3	SB5	1	--	--
4	SB5	1	--	--
5	SB10	--	1	--
6	SB1	--	1	--
7	SB3	--	1	--
8	SB1	1	--	--
9	SB11	1	--	--
10	SB11	1	--	--
11	SB11	1	--	--
12	SB3	--	1	--
13	SB8	--	1	--
14	SB10	--	1	--
15	SB4	1	--	--
16	SB2	1	--	--
17	SB2	1	--	--
18	SB6	--	1	--
19	SB12	--	1	--
20	SB14	--	1	--
21	SB12	1	--	--
22	SB7	1	--	--
23	SB7	1	--	--
24	SB14	--	1	--
25	SB4	--	1	--
26	SB6	--	1	--
27	SB1	--	--	1
28	SB5	--	--	1
29	SB4	--	--	1
30	SB9	--	--	1
31	SB8	--	--	1
32	SB13	--	--	1
33	SB12	--	--	1
34	SB2	--	--	1
	TOTAL	14	12	8

LED MODULES SUMMARY*

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
1	SB8	--	1	1	1	--	--	--
2	SB5	--	1	1	1	--	--	--
3	SB5	--	1	1	1	--	--	--
4	SB5	--	1	1	1	--	--	--
5	SB10	--	--	--	--	1	2	1
6	SB1	--	--	--	--	1	2	1
7	SB3	--	--	--	--	1	2	1
8	SB1	--	1	1	1	--	--	--
9	SB11	--	1	1	1	--	--	--
10	SB11	--	1	1	1	--	--	--
11	SB11	--	1	1	1	--	--	--
12	SB3	--	--	--	--	1	2	1
13	SB8	--	--	--	--	1	2	1
14	SB10	--	--	--	--	1	2	1
15	SB4	--	1	1	1	--	--	--
16	SB2	--	1	1	1	--	--	--
17	SB2	--	1	1	1	--	--	--
18	SB6	--	--	--	--	1	2	1
19	SB12	--	--	--	--	1	2	1
20	SB14	--	--	--	--	1	2	1
21	SB12	--	1	1	1	--	--	--
22	SB7	--	1	1	1	--	--	--
23	SB7	--	1	1	1	--	--	--
24	SB14	--	--	--	--	1	2	1
25	SB4	--	--	--	--	1	2	1
26	SB6	--	--	--	--	1	2	1
27	SB1	1	--	--	--	--	--	--
28	SB5	1	--	--	--	--	--	--
29	SB4	1	--	--	--	--	--	--
30	SB9	1	--	--	--	--	--	--
31	SB8	1	--	--	--	--	--	--
32	SB13	1	--	--	--	--	--	--
33	SB12	1	--	--	--	--	--	--
34	SB2	1	--	--	--	--	--	--
	TOTAL	8	14	14	14	12	24	12

*ITEMS INCIDENTAL TO 658.0173 , 658.0174, OR 658.0416

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

3

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.16 TRNSPT AND INSTALL STATE FURN TRAFFIC SIGNAL CABINET EACH
STH 31 & CTH K	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.20 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS EACH
STH 31 & CTH K	1
TOTAL	1

3

REMOVE, SALVAGE, AND REINSTALL GPS EVP SYSTEM

LOCATION	SPV.0060.24 REMOVE, SALVAGE, AND REINSTAL GPS EVP SYSTEM EACH
STH 31 & CTH K	1
TOTAL	1

TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS

LOCATION	SPV.0060.30 TEMPORARY VEH DETECT SYSTEM EACH
STH 31 & CTH K	1
TOTAL	1

COMMUNICATIONS EQUIPMENT

LOCATION	SPV.0060.35 INSTALL STATE FURNISHED RADIO ANTENNA 5.8 GHZ EACH
STH 31 & CTH K	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & CTH K (60TH ST)
CITY OF KENOSHA
KENOSHA COUNTY

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REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
SB13	1
SB14	1
SB15	1
SB16	1
SB17	1
SB18	1
CB1	1
TOTAL	19

REMOVING LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9060.S.06 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE EACH
STH 31 & STH 158	1
TOTAL	1

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	POLES TYPE 9
3	POLES TYPE 9 SPECIAL
1	MONOTUBE ARMS 30-FT
2	MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE
8	AUDIBLE PEDESTRIAN SIGNAL ASSEMBLIES
2	RADIO INTERCONNECT ANTENNA 5.8 GHZ
1	COHU CAMERA ASSEMBLY

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB19	1
PB20	1
PB21	1
PB22	1
PB23	1
PB24	1
PB25	1
PB26	1
PB27	1
PB28	1
PB29	1
PB30	1
PB31	1
TOTAL	31

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL, 16-INCH	8
TRAFFIC SIGNAL, THREE SECTION	12
TRAFFIC SIGNAL, FOUR SECTION	8
HIGH PRESSURE SODIUM LAMP	12
MERCURY SWITCHES	1
BALLASTS	12
TOTAL	53

LAMP, BALLAST, LED, SWITCH DISPOSAL (FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16-INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FOUR SECTION EACH	HIGH PRESSURE SODIUM LAMP EACH	MERCURY SWITCHES EACH	BALLASTS EACH
CB1	--	--	--	--	1	--
SB1	1	1	--	--	--	--
SB2	1	1	1	--	--	--
SB3	--	1	1	--	--	--
SB4	--	--	--	2	--	2
SB5	--	1	--	--	--	--
SB6	1	--	--	--	--	--
SB7	1	1	1	--	--	--
SB8	--	--	--	1	--	1
SB9	--	1	1	2	--	2
SB10	--	--	--	1	--	1
SB11	1	1	1	--	--	--
SB12	1	1	--	--	--	--
SB13	--	1	1	2	--	2
SB14	1	1	--	--	--	--
SB15	1	1	1	--	--	--
SB16	--	--	--	1	--	1
SB17	--	1	1	2	--	2
SB18	--	--	--	1	--	1
TOTAL	8	12	8	12	1	12

REMOVING TRAFFIC SIGNALS

LOCATION	204.9060.S.02 REMOVING TRAFFIC SIGNALS EACH
STH 31 & STH 158	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

PLOT DATE : 7/19/2022 8:58 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1	--	72	--
PB1	PB2	--	--	31
PB1	PB3	165	--	--
PB1	PB5	--	--	170
PB2	SB1	29	--	--
PB2	SB2	--	38	--
PB3	PB4	150	--	--
PB5	SB3	35	--	--
PB5	PB6	--	--	154
PB6	PB7	--	42	--
PB7	PB8	--	--	38
PB7	PB11	--	--	142
PB7	PB9	166	--	--
PB8	SB4	17	--	--
PB8	SB5	--	23	--
PB9	PB10	150	--	--
PB11	PB12	27	--	--
PB11	PB13	--	--	84
PB12	SB6	19	--	--
PB13	SB7	--	5	--
PB13	PB14	--	126	--
PB14	PB15	--	--	38
PB14	PB16	190	--	--
PB14	PB18	--	--	170
PB15	SB8	5	--	--
PB15	SB9	15	--	--
PB16	PB17	150	--	--
PB18	SB10	16	--	--
PB18	PB19	--	--	138
PB19	PB20	--	--	28
PB20	SB11	5	--	--
PB20	SB12	--	13	--
PB19	PB21	--	52	--
PB21	PB22	169	--	--
PB21	PB24	--	--	114
PB22	PB23	150	--	--
PB24	PB25	24	--	--
PB24	PB26	--	--	120
PB25	SB13	13	--	--
PB26	CB1	--	105	--
PB1	SB14	40	--	--
PB6	SB15	20	--	--
PB14	SB16	5	--	--
PB19	SB17	5	--	--
	TOTAL	1565	476	1227

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	382+40, 81.6' LT	--	1
PB2	382+16, 56.6' LT	--	1
PB3	384+06, 53.8' LT	1	--
PB4	385+55, 53.8' LT	1	--
PB5	382+41, 7.6' RT	--	1
PB6	382+41, 89.0' RT	--	1
PB7	382+28, 110.5' RT	--	1
PB8	382+00, 80.0' RT	--	1
PB9	382+32, 278.9' RT	1	--
PB10	382+53, 427.4' RT	1	--
PB11	381+55, 122.6' RT	--	1
PB12	381+49, 92.2' RT	1	--
PB13	381+12, 133.5' RT	--	1
PB14	380+60, 82.7' RT	1	--
PB15	380+93, 56.9' RT	--	1
PB16	378+71, 53.7' RT	1	--
PB17	377+21, 51.7' RT	1	--
PB18	380+60, 7.9' LT	--	1
PB19	380+64, 87.1' LT	--	1
PB20	380+89, 67.5' LT	--	1
PB21	380+70, 109.2' LT	--	1
PB22	380+54, 280.2' LT	1	--
PB23	380+36, 429.2' LT	1	--
PB24	381+31, 117.4' LT	--	1
PB25	381+34, 89.9' LT	1	--
PB26	381+92, 126.6' LT	--	1
	TOTAL	11	15

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

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CONCRETE BASES

SIGNAL BASE NO.	LOCATION^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
SB1	381+86, 53.8' LT	1	--	--	--	--	--
SB2	381+77, 66.4' LT	--	--	--	1	--	--
SB3	382+04, 7.1' RT	--	1	--	--	--	--
SB4	381+94, 62.1' RT	1	--	--	--	--	--
SB5	381+99, 56.0' RT	--	--	--	--	1	--
SB6	381+47, 71.8' RT	--	1	--	--	--	--
SB7	381+09, 122.8' RT	--	--	--	--	1	--
SB8	380+98, 59.3' RT	1	--	--	--	--	--
SB9	381+09, 63.1' RT	1	--	--	--	--	--
SB10	380+77, 7.5' LT	--	2	--	--	--	--
SB11	380+92, 64.8' LT	1	--	--	--	--	--
SB12	380+85, 53.6' LT	--	--	--	--	1	--
SB13	381+36, 74.7' LT	--	1	--	--	--	--
SB14	382+05, 104.7' LT	--	--	1	--	--	--
SB15	382+38, 85.2' RT	--	--	1	--	--	--
SB16	380+63, 76.6' RT	--	--	1	--	--	--
SB17	380+69, 94.9' LT	--	--	1	--	--	--
CB1	382+28, 108.5' LT	--	--	--	--	--	1
	TOTAL	5	5	4	1	3	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.02 SIGNAL MOUNTING HARDWARE L.S.
STH 31 & STH 158	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.	661.0300 GENERATORS DAY	677.0200 INSTALL CAMERA ASSEMBLY EACH
STH 31 & STH 158	1	1	1
TOTAL	1	1	1

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION*	656.0200.02 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
STH 31 & STH 158	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB18	380+57, 2.5' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	273	180
12	PB18	380+85, 2.4' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	68	273	184
21	PB4	385+56, 40.8' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	36	353	144
22	PB4	385+56, 30.6' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	60	353	168
23	PB4	385+56, 21.5' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	353	192
24	PB3	384+06, 40.9' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	36	203	120
25	PB3	384+06, 30.5' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	60	203	144
26	PB3	384+06, 19.4' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	203	168
31	PB12	381+60, 90.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	335	178
32	PB12	381+55, 62.7' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	335	186
41	PB23	185+43, 35.5' RT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	46	493	154
42	PB23	185+43, 25.3' RT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	493	178
43	PB22	186+93, 36.5' RT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	56	343	164
44	PB22	186+93, 25.4' RT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	80	343	188
45	PB20	188+86, 38.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	100	232	216
46	PB20	189+14, 38.2' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	232	202
47	PB25	188+88, 26.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	137	202
48	PB25	189+16, 26.2' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	137	200
51	PB5	382+19, 3.9' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	66	123	182
52	PB5	381+91, 3.9' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	110	123	226
61	PB17	377+21, 41.3' RT	6' x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	56	708	236
62	PB17	377+21, 30.2' RT	6' x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	80	708	260
63	PB17	377+21, 19.4' RT	6' x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	104	708	284
64	PB16	378+71, 41.1' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	46	558	186
65	PB16	378+71, 30.1' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	558	210
66	PB16	378+71, 19.3' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	94	558	234
71	PB25	188+89, 14.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	137	178
72	PB25	189+17, 14.2' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	62	137	178
81	PB10	194+22, 18.7' LT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	50	551	190
82	PB10	194+22, 7.3' LT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	74	551	214
83	PB9	192+72, 18.8' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	46	401	154
84	PB9	192+72, 6.8' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	401	178
85	PB8	190+83, 18.5' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	271	200
86	PB8	190+55, 18.3' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	74	271	190
87	PB8	190+81, 6.5' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	102	271	218
88	PB8	190+53, 6.3' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	102	271	218
						TOTAL	2584	12600	6904

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

PLOT DATE : 7/19/2022 8:57 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

3

TRAFFIC SIGNAL CABLE AND WIRE (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 6	--	22
SB1	HEAD 8	19	--
SB1	HEAD 27	15	--
SB1	BUTTON	6	--
SB2	HEAD 16	55	--
SB2	HEAD 17	55	--
SB2	HEAD 34	15	--
SB2	BUTTON	6	--
SB3	HEAD 7	--	22
SB3	HEAD 12	--	22
SB4	HEAD 25	--	22
SB4	HEAD 15	15	--
SB4	HEAD 29	15	--
SB4	BUTTON	6	--
SB5	HEAD 2	65	--
SB5	HEAD 3	65	--
SB5	HEAD 4	65	--
SB5	HEAD 28	15	--
SB5	BUTTON	6	--
SB6	HEAD 18	--	22
SB6	HEAD 26	--	22
SB7	HEAD 22	60	--
SB7	HEAD 23	60	--
SB8	HEAD 1	22	--
SB8	HEAD 13	--	22
SB8	HEAD 31	15	--
SB8	BUTTON	6	--
SB9	HEAD 30	15	--
SB9	BUTTON	6	--
SB10	HEAD 5	--	22
SB10	HEAD 14	--	22
SB11	HEAD 19	--	22
SB11	HEAD 21	22	--
SB11	HEAD 33	15	--
SB11	BUTTON	6	--
SB12	HEAD 9	60	--
SB12	HEAD 10	60	--
SB12	HEAD 11	60	--
SB12	HEAD 32	15	--
SB12	BUTTON	6	--
SB13	HEAD 20	--	22
SB13	HEAD 24	--	22
		--	--
	TOTAL	851	264

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	112
SB1	SB2	80
SB2	SB3	232
SB3	SB4	247
SB4	SB5	53
SB5	SB6	233
SB6	SB7	132
SB7	SB8	151
SB8	SB9	32
SB9	SB10	196
SB10	SB11	157
SB11	SB12	29
SB12	SB13	231
SB13	CB1	175
PB1	CB1	36
PB5	SB3	47
PB6	SB5	121
PB7	SB5	85
PB11	SB7	72
PB13	SB7	15
PB14	SB7	93
PB18	SB10	28
PB19	SB12	65
PB21	SB12	107
PB24	SB13	63
PB26	CB1	48
	TOTAL	2840

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB16 (GPS)	177
	TOTAL	177

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	--	112	--
CB1	SB2	--	124	--
CB1	SB3	--	173	--
CB1	SB4	--	333	--
CB1	SB5	--	338	--
CB1	SB6	--	408	--
CB1	SB7	406	--	--
CB1	SB8	--	535	--
CB1	SB9	547	--	--
CB1	SB10	--	333	--
CB1	SB11	--	281	--
CB1	SB12	--	291	--
CB1	SB13	--	175	175
CB1	SB14	--	--	63
SB14	SB3	--	--	189
SB3	SB15	--	--	319
SB15	SB6	--	--	211
SB13	SB17	--	--	178
SB17	SB10	--	--	126
SB10	SB16	--	--	135
	TOTAL	953	3103	1396

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMINAIRE	234
SB6	LUMINAIRE	234
SB10	LUMINAIRE	234
SB13	LUMINAIRE	234
SB14	LUMINAIRE	117
SB15	LUMINAIRE	117
SB16	LUMINAIRE	117
SB17	LUMINAIRE	117
		--
	TOTAL	1404

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0605 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 4-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1	--	--	--	1	--	--	--	--
SB3	--	1	1	--	--	--	--	2	2
SB4	1	--	--	--	1	--	--	--	--
SB6	--	1	1	--	--	--	--	2	2
SB8	1	--	--	--	1	--	--	--	--
SB9	1	--	--	--	--	1	--	--	--
SB10	--	1	1	--	--	--	--	2	2
SB11	1	--	--	--	1	--	--	--	--
SB13	--	1	1	--	--	--	--	2	2
SB14	--	--	--	1	--	--	1	--	1
SB15	--	--	--	1	--	--	1	--	1
SB16	--	--	--	1	--	--	1	--	1
SB17	--	--	--	1	--	--	1	--	1
TOTAL	5	4	4	4	4	1	4	8	12

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.38 INSTALL POLES TYPE 9 EACH	SPV.0060.02 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.07 INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.08 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.09 INSTALL MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE EACH
SB2	1	--	1	--	--
SB5	--	1	--	--	1
SB7	--	1	--	1	--
SB12	--	1	--	1	--
TOTAL	1	3	1	2	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB8	1	--	--
2	SB5	1	--	--
3	SB5	1	--	--
4	SB5	1	--	--
5	SB10	--	1	--
6	SB1	--	1	--
7	SB3	--	1	--
8	SB8	1	--	--
9	SB12	1	--	--
10	SB12	1	--	--
11	SB12	1	--	--
12	SB3	--	1	--
13	SB8	--	1	--
14	SB10	--	1	--
15	SB4	1	--	--
16	SB2	1	--	--
17	SB2	1	--	--
18	SB6	--	1	--
19	SB11	--	1	--
20	SB13	--	1	--
21	SB11	1	--	--
22	SB7	1	--	--
23	SB7	1	--	--
24	SB13	--	1	--
25	SB4	--	1	--
26	SB6	--	1	--
27	SB1	--	--	1
28	SB5	--	--	1
29	SB4	--	--	1
30	SB9	--	--	1
31	SB8	--	--	1
32	SB12	--	--	1
33	SB11	--	--	1
34	SB2	--	--	1
	TOTAL	14	12	8

LED MODULES SUMMARY*

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
1	SB8	--	1	1	1	--	--	--
2	SB5	--	1	1	1	--	--	--
3	SB5	--	1	1	1	--	--	--
4	SB5	--	1	1	1	--	--	--
5	SB10	--	--	--	--	1	2	1
6	SB1	--	--	--	--	1	2	1
7	SB3	--	--	--	--	1	2	1
8	SB8	--	1	1	1	--	--	--
9	SB12	--	1	1	1	--	--	--
10	SB12	--	1	1	1	--	--	--
11	SB12	--	1	1	1	--	--	--
12	SB3	--	--	--	--	1	2	1
13	SB8	--	--	--	--	1	2	1
14	SB10	--	--	--	--	1	2	1
15	SB4	--	1	1	1	--	--	--
16	SB2	--	1	1	1	--	--	--
17	SB2	--	1	1	1	--	--	--
18	SB6	--	--	--	--	1	2	1
19	SB11	--	--	--	--	1	2	1
20	SB13	--	--	--	--	1	2	1
21	SB11	--	1	1	1	--	--	--
22	SB7	--	1	1	1	--	--	--
23	SB7	--	1	1	1	--	--	--
24	SB13	--	--	--	--	1	2	1
25	SB4	--	--	--	--	1	2	1
26	SB6	--	--	--	--	1	2	1
27	SB1	1	--	--	--	--	--	--
28	SB5	1	--	--	--	--	--	--
29	SB4	1	--	--	--	--	--	--
30	SB9	1	--	--	--	--	--	--
31	SB8	1	--	--	--	--	--	--
32	SB12	1	--	--	--	--	--	--
33	SB11	1	--	--	--	--	--	--
34	SB2	1	--	--	--	--	--	--
	TOTAL	8	14	14	14	12	24	12

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

3

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.15 TRNSPT AND INSTALL STATE FURN TRAFFIC SIGNAL CABINET EACH
STH 31 & STH 158	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.19 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS EACH
STH 31 & STH 158	1
TOTAL	1

3

REMOVE, SALVAGE, AND REINSTALL GPS EVP SYSTEM

LOCATION	SPV.0060.23 REMOVE, SALVAGE, AND REINSTALL GPS EVP SYSTEM EACH
STH 31 & STH 158	1
TOTAL	1

COMMUNICATIONS EQUIPMENT

LOCATION	SPV.0060.34 INSTALL STATE FURNISHED RADIO ANTENNA 5.8 GHZ EACH
STH 31 & STH 158	2
TOTAL	2

TRANSPORT AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON EQUIPMENT

LOCATION	SPV.0060.28 TRNSPT & INSTALL STATE-FURNISHED AUDIBLE PEDESTRIAN SIGNAL SYSTEM EACH
STH 31 & STH 158	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) & STH 158 (52ND ST)
CITY OF KENOSHA
KENOSHA COUNTY

3

REMOVING TRAFFIC SIGNALS

LOCATION	204.9060.S.01 REMOVING TRAFFIC SIGNALS EACH
STH 31 & CTH S	1
TOTAL	1

REMOVING LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	204.9060.S.05 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE EACH
STH 31 & CTH S	1
TOTAL	1

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
2	POLES TYPE 10
2	POLES TYPE 9 SPECIAL
2	POLES TYPE 12
1	MONOTUBE ARMS 20-FT
1	MONOTUBE ARMS 25-FT
1	MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE
1	MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS 50-FT
1	MONOTUBE ARMS 55-FT
4	LUMINAIRE ARMS 15-FT
4	EVP DETECTOR HEADS
8	AUDIBLE PEDESTRIAN SIGNAL ASSEMBLIES
1	RADIO INTERCONNECT ANTENNA 5.8 GHZ
1	COHU CAMERA ASSEMBLY

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
CB1	1
TOTAL	10

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
PB21	1
PB22	1
PB23	1
TOTAL	19

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL, 16-INCH	2
TRAFFIC SIGNAL, THREE SECTION	24
MERCURY SWITCHES	1
TOTAL	27

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL (FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16-INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH	MERCURY SWITCHES EACH
CB1	--	--	1
SB1	1	3	--
SB2	--	3	--
SB3	1	3	--
SB4	--	3	--
SB5	--	3	--
SB6	--	3	--
SB7	--	3	--
SB8	--	1	--
SB9	--	2	--
SB10	--	--	--
SB11	--	--	--
SB12	--	--	--
SB13	--	--	--
SB14	--	--	--
SB15	--	--	--
SB16	--	--	--
SB17	--	--	--
SB18	--	--	--
TOTAL	2	24	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1	--	--	102
PB1	PB2	--	--	25
PB1	PB3	--	70	--
PB2	SB1	5	--	--
PB2	SB2	6	--	--
PB3	PB4	167	--	--
PB3	PB6	83	--	--
PB4	PB5	138	--	--
PB6	SB3	20	--	--
PB6	PB7	24	--	--
PB6	PB8	--	--	152
PB8	PB9	--	--	28
PB8	SB4	--	26	--
PB9	PB13	--	--	190
PB9	PB10	--	--	34
PB10	SB5	5	--	--
PB10	SB6	18	--	--
PB13	SB7	--	18	--
PB13	PB14	16	--	--
PB13	PB15	--	--	90
PB15	SB8	20	--	--
PB15	PB16	--	186	--
PB16	PB17	--	--	40
PB16	PB18	171	--	--
PB16	PB20	--	--	182
PB17	SB9	5	--	--
PB17	SB10	26	--	--
PB18	PB19	146	--	--
PB20	SB11	19	--	--
PB20	PB21	25	--	--
PB20	PB22	--	--	132
PB22	SB12	--	18	--
PB22	PB23	--	62	--
PB23	PB24	--	--	38
PB23	PB27	--	--	112
PB24	SB13	5	--	--
PB24	SB14	16	--	--
PB27	PB28	--	--	52
PB28	SB15	--	23	--
PB28	PB29	--	--	96
PB29	SB16	--	24	--
PB29	CB1	--	--	80
PB1	SB17	10	--	--
PB8	SB18	5	--	--
PB16	SB19	25	--	--
PB23	SB20	15	--	--
	TOTAL	970	427	1353

3

PULL BOXES

PULL BOX NO.	LOCATION^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	436+49, 89.3' LT	--	1
PB2	436+18, 68.9' LT	--	1
PB3	436+72, 83.8' LT	--	1
PB4	438+42, 81.6' LT	1	--
PB5	439+84, 76.1' LT	1	--
PB6	436+72, 3.8' RT	--	1
PB7	437+00, 3.6' RT	1	--
PB8	436+72, 83.1' RT	--	1
PB9	436+62, 97.4' RT	--	1
PB10	436+30, 78.2' RT	--	1
PB13	435+66, 117.2' RT	--	1
PB14	435+70, 136.5' RT	1	--
PB15	435+18, 127.2' RT	--	1
PB16	434+44, 77.2' RT	--	1
PB17	434+84, 58.1' RT	--	1
PB18	432+69, 74.3' RT	1	--
PB19	431+18, 73.4' RT	1	--
PB20	434+44, 17.1' LT	--	1
PB21	434+16, 16.8' LT	1	--
PB22	434+44, 86.8' LT	--	1
PB23	434+55, 120.0' LT	--	1
PB24	434+82, 87.2' LT	--	1
PB27	435+14, 131.0' LT	--	1
PB28	435+44, 137.3' LT	--	1
PB29	435+94, 147.3' LT	--	1
	TOTAL	7	18

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

3

CONCRETE BASES

SIGNAL BASE NO.	LOCATION^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
SB1	436+14, 68.2' LT	1	--	--	--	--	--	--
SB2	436+02, 66.6' LT	1	--	--	--	--	--	--
SB3	436+50, 4.2' RT	--	1	--	--	--	--	--
SB4	436+95, 68.0' RT	--	--	--	--	1	--	--
SB5	436+28, 72.0' RT	1	--	--	--	--	--	--
SB6	436+36, 59.4' RT	1	--	--	--	--	--	--
SB7	435+62, 97.8' RT	--	--	--	1	--	--	--
SB8	435+08, 108.3' RT	--	--	--	--	--	1	--
SB9	434+90, 58.5' RT	1	--	--	--	--	--	--
SB10	435+12, 58.6' RT	1	--	--	--	--	--	--
SB11	434+65, 16.9' LT	--	1	--	--	--	--	--
SB12	434+26, 79.8' LT	--	--	--	--	1	--	--
SB13	434+85, 82.8' LT	1	--	--	--	--	--	--
SB14	434+86, 69.5' LT	1	--	--	--	--	--	--
SB15	435+49, 113.1' LT	--	--	--	1	--	--	--
SB16	436+04, 123.4' LT	--	--	--	--	--	1	--
SB17	436+35, 92.0' LT	--	--	1	--	--	--	--
SB18	436+63, 93.2' RT	--	--	1	--	--	--	--
SB19	434+79, 85.3' RT	--	--	1	--	--	--	--
SB20	434+51, 100.0' LT	--	--	1	--	--	--	--
CB1	436+35, 130.8' LT	--	--	--	--	--	--	1
	TOTAL	8	2	4	2	2	2	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.01 SIGNAL MOUNTING HARDWARE L.S.
STH 31 & CTH S	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.	661.0300 GENERATORS DAY	677.0200 INSTALL CAMERA ASSEMBLY EACH
STH 31 & CTH S	1	1	1
TOTAL	1	1	1

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION*	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
STH 31 & CTH S	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

PLOT DATE : 7/19/2022 9:01 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB21	434+41, 7.2' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	92	324	208
12	PB20	434+69, 7.0' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	92	295	208
13	PB21	434+41, 5.0' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	324	186
14	PB20	434+69, 5.0' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	295	186
21	PB5	439+84, 54.5' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	58	394	166
22	PB5	439+84, 42.5' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	82	394	190
23	PB5	439+84, 30.3' LT	6' x 6'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	106	394	214
24	PB4	438+35, 55.0' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	252	154
25	PB4	438+35, 43.6' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	94	252	178
26	PB4	438+34, 31.9' LT	6' x 6'	4	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	118	252	202
31	PB14	61+09, 6.7' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	96	385	212
32	PB13	60+81, 7.0' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	104	365	220
33	PB14	61+09, 5.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	74	385	190
34	PB13	60+81, 5.0' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	84	365	200
45	PB24	58+78, 45.6' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	98	231	214
46	PB24	59+06, 45.7' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	94	231	210
47	PB27	58+78, 33.0' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	88	129	218
48	PB27	59+06, 33.3' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	102	129	204
51	PB7	436+77, 18.4' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	197	202
52	PB6	436+49, 18.2' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	86	169	202
53	PB7	436+77,6.4' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	197	180
54	PB6	436+49, 6.3' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	64	169	180
61	PB19	431+18, 40.9' RT	6' x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	100	714	280
62	PB19	431+18, 28.5' RT	6' x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	124	714	304
63	PB19	431+18, 16.9' RT	6' x 15'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	148	714	328
64	PB18	432+70, 39.2' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	92	564	232
65	PB18	432+70, 28.8' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	116	564	256
66	PB18	432+70, 18.2' RT	6' x 10'	5	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	140	564	280
71	PB28	58+55, 2.2' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	76	100	192
72	PB28	58+86., 2.4' RT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	70	100	186
84	PB10	61+10, 38.2' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	92	331	208
85	PB10	60+82, 38.4' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	78	331	194
86	PB10	61+10, 26.2' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	108	331	224
87	PB10	60+82, 26.4' LT	6' x 20'	3	CONCRETE	F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2	102	331	218
						TOTAL	3138	11486	7226

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

PLOT DATE : 7/19/2022 9:01 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

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TRAFFIC SIGNAL CABLE AND WIRE (ABOVE GROUND)

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.
SB1	HEAD 6	19
SB1	HEAD 8	19
SB1	HEAD 28	15
SB1	BUTTON	6
SB2	HEAD 35	15
SB2	BUTTON	6
SB3	HEAD 7	19
SB3	HEAD 12	19
SB4	HEAD 2	80
SB4	HEAD 3	80
SB4	HEAD 4	80
SB5	HEAD 15	15
SB5	HEAD 26	19
SB5	HEAD 30	19
SB5	BUTTON	6
SB6	HEAD 29	15
SB6	BUTTON	6
SB7	HEAD 18	40
SB7	HEAD 27	40
SB8	HEAD 23	65
SB8	HEAD 24	65
SB9	HEAD 1	19
SB9	HEAD 32	19
SB9	BUTTON	6
SB10	HEAD 13	19
SB10	HEAD 31	19
SB10	BUTTON	6
SB11	HEAD 5	19
SB11	HEAD 14	19
SB12	HEAD 9	15
SB12	HEAD 10	75
SB12	HEAD 11	75
SB13	HEAD 22	19
SB13	BUTTON	6
SB14	HEAD 19	19
SB14	HEAD 34	19
SB14	BUTTON	6
SB15	HEAD 20	50
SB15	HEAD 21	50
SB15	HEAD 25	50
SB16	HEAD 16	70
SB16	HEAD 17	70
		--
	TOTAL	1404

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	89
SB1	SB2	33
SB2	SB3	233
SB3	SB4	149
SB4	SB5	120
SB5	SB6	37
SB6	SB7	206
SB7	SB8	110
SB8	SB9	198
SB9	SB10	45
SB10	SB11	217
SB11	SB12	130
SB12	SB13	132
SB13	SB14	34
SB14	SB15	214
SB15	SB16	124
SB16	CB1	77
PB1	CB1	53
PB3	CB1	94
PB6	SB3	32
PB8	SB4	38
PB9	SB4	65
PB13	SB7	30
PB15	SB8	41
PB16	SB8	137
PB20	SB11	31
PB22	SB12	30
PB23	SB12	75
PB28	SB15	35
PB29	SB16	26
	TOTAL	2835

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB12 (HEAD A)	352
CB1	SB4 (HEAD B)	383
CB1	SB8 (HEAD C)	561
CB1	SB16 (HEAD D)	146
CB1	SB16 (GPS)	146
	TOTAL	1588

TRAFFIC SIGNAL CABLE AND WIRE (UNDERGROUND)

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	--	88	--
CB1	SB2	106	--	--
CB1	SB3	--	213	--
CB1	SB4	308	--	--
CB1	SB5	--	363	--
CB1	SB6	383	--	--
CB1	SB7	--	436	--
CB1	SB8	496	--	--
CB1	SB9	--	642	--
CB1	SB10	--	664	--
CB1	SB11	--	367	--
CB1	SB12	257	--	--
CB1	SB13	--	282	--
CB1	SB14	--	293	--
CB1	SB15	--	137	137
CB1	SB16	76	--	--
CB1	SB17	--	--	75
SB17	SB3	--	--	178
SB3	SB18	--	--	143
SB18	SB7	--	--	143
SB15	SB20	--	--	165
SB20	SB11	--	--	175
SB11	SB19	--	--	171
	TOTAL	1626	3485	1187

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMINAIRE	234
SB7	LUMINAIRE	234
SB11	LUMINAIRE	234
SB15	LUMINAIRE	234
SB17	LUMINAIRE	117
SB18	LUMINAIRE	117
SB19	LUMINAIRE	117
SB20	LUMINAIRE	117
		--
	TOTAL	1404

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0605 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 4-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1	--	--	--	1	--	--	--	--
SB2	--	--	--	--	--	1	--	--	--
SB3	--	1	1	--	--	--	--	2	2
SB5	1	--	--	--	1	--	--	--	--
SB6	1	--	--	--	--	1	--	--	--
SB9	1	--	--	--	1	--	--	--	--
SB10	1	--	--	--	1	--	--	--	--
SB11	--	1	1	--	--	--	--	2	2
SB13	1	--	--	--	1	--	--	--	--
SB14	1	--	--	--	--	1	--	--	--
SB17	--	--	--	1	--	--	1	--	1
SB18	--	--	--	1	--	--	1	--	1
SB19	--	--	--	1	--	--	1	--	1
SB20	--	--	--	1	--	--	1	--	1
TOTAL	7	2	2	4	5	3	4	4	8

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.01 INSTALL POLES TYPE 10 EACH	SPV.0060.02 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.03 INSTALL POLES TYPE 12 EACH	SPV.0060.05 INSTALL MONOTUBE ARMS 20-FT EACH	SPV.0060.06 INSTALL MONOTUBE ARMS 25-FT EACH	SPV.0060.09 INSTALL MONOTUBE ARMS 40-FT TYPE 9/10 SPECIAL POLE EACH	SPV.0060.10 INSTALL MONOTUBE ARMS 45-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.11 INSTALL MONOTUBE ARMS 50-FT EACH	SPV.0060.12 INSTALL MONOTUBE ARMS 55-FT EACH	SPV.0060.13 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB4	--	--	1	--	--	--	--	--	1	--	--
SB7	1	--	--	1	--	--	--	--	--	2	2
SB8	--	1	--	--	--	1	--	--	--	--	--
SB12	--	--	1	--	--	--	--	1	--	--	--
SB15	1	--	--	--	1	--	--	--	--	2	2
SB16	--	1	--	--	--	--	1	--	--	--	--
TOTAL	2	2	2	1	1	1	1	1	1	4	4

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB1	1	--
2	SB12	1	--
3	SB12	1	--
4	SB12	1	--
5	SB3	1	--
6	SB10	1	--
7	SB11	1	--
8	SB5	1	--
9	SB17	1	--
10	SB17	1	--
11	SB7	1	--
12	SB14	1	--
13	SB15	1	--
14	SB15	1	--
15	SB9	1	--
16	SB4	1	--
17	SB4	1	--
18	SB4	1	--
19	SB11	1	--
20	SB1	1	--
21	SB3	1	--
22	SB13	1	--
23	SB8	1	--
24	SB8	1	--
25	SB16	1	--
26	SB5	1	--
27	SB7	1	--
28	SB1	--	1
29	SB6	--	1
30	SB5	--	1
31	SB10	--	1
32	SB9	--	1
33	SB14	--	1
34	SB13	--	1
35	SB2	--	1
	TOTAL	27	8

LED MODULES SUMMARY*

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
1	SB1	--	1	1	1	--	--	--
2	SB12	--	1	1	1	--	--	--
3	SB12	--	1	1	1	--	--	--
4	SB12	--	1	1	1	--	--	--
5	SB3	--	--	--	--	1	1	1
6	SB10	--	--	--	--	1	1	1
7	SB11	--	--	--	--	1	1	1
8	SB5	--	1	1	1	--	--	--
9	SB17	--	1	1	1	--	--	--
10	SB17	--	1	1	1	--	--	--
11	SB7	--	--	--	--	1	1	1
12	SB14	--	--	--	--	1	1	1
13	SB15	--	--	--	--	1	1	1
14	SB15	--	--	--	--	1	1	1
15	SB9	--	1	1	1	--	--	--
16	SB4	--	1	1	1	--	--	--
17	SB4	--	1	1	1	--	--	--
18	SB4	--	1	1	1	--	--	--
19	SB11	--	--	--	--	1	1	1
20	SB1	--	--	--	--	1	1	1
21	SB3	--	--	--	--	1	1	1
22	SB13	--	1	1	1	--	--	--
23	SB8	--	1	1	1	--	--	--
24	SB8	--	1	1	1	--	--	--
25	SB16	--	--	--	--	1	1	1
26	SB5	--	--	--	--	1	1	1
27	SB7	--	--	--	--	1	1	1
28	SB1	1	--	--	--	--	--	--
29	SB6	1	--	--	--	--	--	--
30	SB5	1	--	--	--	--	--	--
31	SB10	1	--	--	--	--	--	--
32	SB9	1	--	--	--	--	--	--
33	SB14	1	--	--	--	--	--	--
34	SB13	1	--	--	--	--	--	--
35	SB2	1	--	--	--	--	--	--
	TOTAL	8	14	14	14	13	13	13

*ITEMS INCIDENTAL TO 658.0173 , 658.0174, OR 658.0416

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

3

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.14 TRNSPT AND INSTALL STATE FURN TRAFFIC SIGNAL CABINET EACH
STH 31 & CTH S	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.18 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS EACH
STH 31 & CTH S	1
TOTAL	1

3

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0060.22 TRNSPT & INSTALL STATE FURN EVP HEADS EACH
STH 31 & CTH S	1
TOTAL	1

TEMPORARY EVP SYSTEM

LOCATION	SPV.0060.39 TEMPORARY EVP SYSTEM EACH	SPV.0060.26 REMOVE, SALVAGE, AND REINSTALL GPS EVP SYSTEM EACH
STH 31 & CTH S	1	1
TOTAL	1	1

COMMUNICATIONS EQUIPMENT

LOCATION	SPV.0060.33 INSTALL STATE FURNISHED RADIO ANTENNA 5.8 GHZ EACH
STH 31 & CTH S	1
TOTAL	1

TRANSPORT AND INSTALL STATE-FURNISHED AUDIBLE PEDESTRIAN SIGNAL SYSTEM

LOCATION	SPV.0060.27 TRNSPT & INSTALL STATE-FURNISHED AUDIBLE PEDESTRIAN SIGNAL SYSTEM EACH
STH 31 & CTH S	1
TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 (GREEN BAY RD) &
CTH S (38TH ST / WASHINGTON RD)
VILLAGE OF SOMERS
KENOSHA COUNTY

PLOT DATE : 7/19/2022 9:01 AM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

3

I/C PULL BOXES AND COMMUNICATION VAULTS

PULL BOX NO.	LOCATION^	653.0140 PULL BOXES STEEL 24x42-INCH EACH	673.0105 COMMUNICATION VAULT TYPE 1 EACH
ICPB1	313+80, 53.0' LT	1	--
ICPB2	317+58, 51.8' LT	1	--
ICPB3	318+90, 53.7' LT	1	--
ICPB4	325+70, 59.3' LT	1	--
CV1	327+75, 63.1' LT	--	1
	TOTAL	4	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STATE FURNISHED MATERIALS SUMMARY (FOR INFORMATION ONLY)

FROM	TO	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT EACH	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT L.F.	ETHERNET SWITCH EACH	FIBER OPTIC CABLE OUTDOOR PLANT 36-CT L.F.
CV1	CB1 (S30-0566)	1	100	1	--
CB1 (S30-0050)	CB1 (S30-0566)	--	--	--	4261
PROJECT TOTAL		1	100	1	4261

CONDUIT

FROM	TO	671.0132 CONDUIT HDPE 3-DUCT 2-INCH L.F.	671.0232 CONDUIT HDPE DIRECTIONAL BORE 2-INCH L.F.
EXICPB33	ICPB1	--	157
ICPB1	ICPB2	378	--
ICPB2	ICPB3	--	131
ICPB3	ICPB4	680	--
ICPB4	CV1	--	205
CV1	CB1	62	--
	TOTAL	1120	493

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

FIBER OPTIC CABLE

LOCATION	TO	LOCATION	678.0036 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-CT EACH	SPV.0090.02 FIBER OPTIC WARNING TAPE LF	655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF
EXCV7		EXICPB29	311	251	257
EXICPB29		EXICPB30	190	130	136
EXICPB30		EXICPB31	157	97	103
EXICPB31		EXICPB32	905	845	851
EXICPB32		EXICPB33	169	109	115
EXICPB33		ICPB1	217	157	163
ICPB1		ICPB2	438	378	384
ICPB2		ICPB3	191	131	137
ICPB3		ICPB4	740	680	686
ICPB4		CV1	265	205	211
CV1		CB1	122	62	68
15% CONTINGENCY			556	457	467
		TOTAL	4261	3502	3578

ALL ITEMS CATEGORY 0020

STH 31 INTERCONNECT
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

PLOT DATE : 4/28/2022 1:59 PM PLOT BY : PLOT NAME : 030201_mq PLOT SCALE : 1.000000:1.000000
WISDOT / CADDS SHEET 42

3

FIELD IMPLEMENTATION ITEMS

LOCATION		670.0100 FIELD SYSTEM INTEGRATOR L.S.	670.0200 ITS DOCUMENTATION L.S.	678.0500 COMMUNICATION SYSTEM TESTING L.S.
PROJECT 3330-07-70		1	1	1
	TOTAL	1	1	1

FIBER OPTIC SPLICE

LOCATION		678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
CV1		1	4
EXCV7		--	36
	TOTAL	1	40

3

COMMUNICATIONS EQUIPMENT

LOCATION		678.0600 INSTALL ETHERNET SWITCHES EACH	SPV.0060.32 INSTALL FIBER OPTIC COMMUNICATIONS IN CABINET STH 31 & 67TH ST** EACH	CAT-5E-CABLE 5-FEET *** EACH	ST-ST SINGLE MODE FIBER JUMPER 4-FEET*** EACH
CB1 (S30-0566)		1	1	3	2
	TOTAL	1	1	3	2

RADIO INTERCONNECT EQUIPMENT

LOCATION		SPV.0060.37 INSTALL STATE FURNISHED RADIO INTERCONNECT ANTENNA 5.8 GHZ STH 31 & 45TH ST EACH
CB1 (S30-1307)		1
	TOTAL	1

ALL ITEMS CATEGORY 0020

STH 31 INTERCONNECT
CITY OF KENOSHA / VILLAGE OF SOMERS
KENOSHA COUNTY

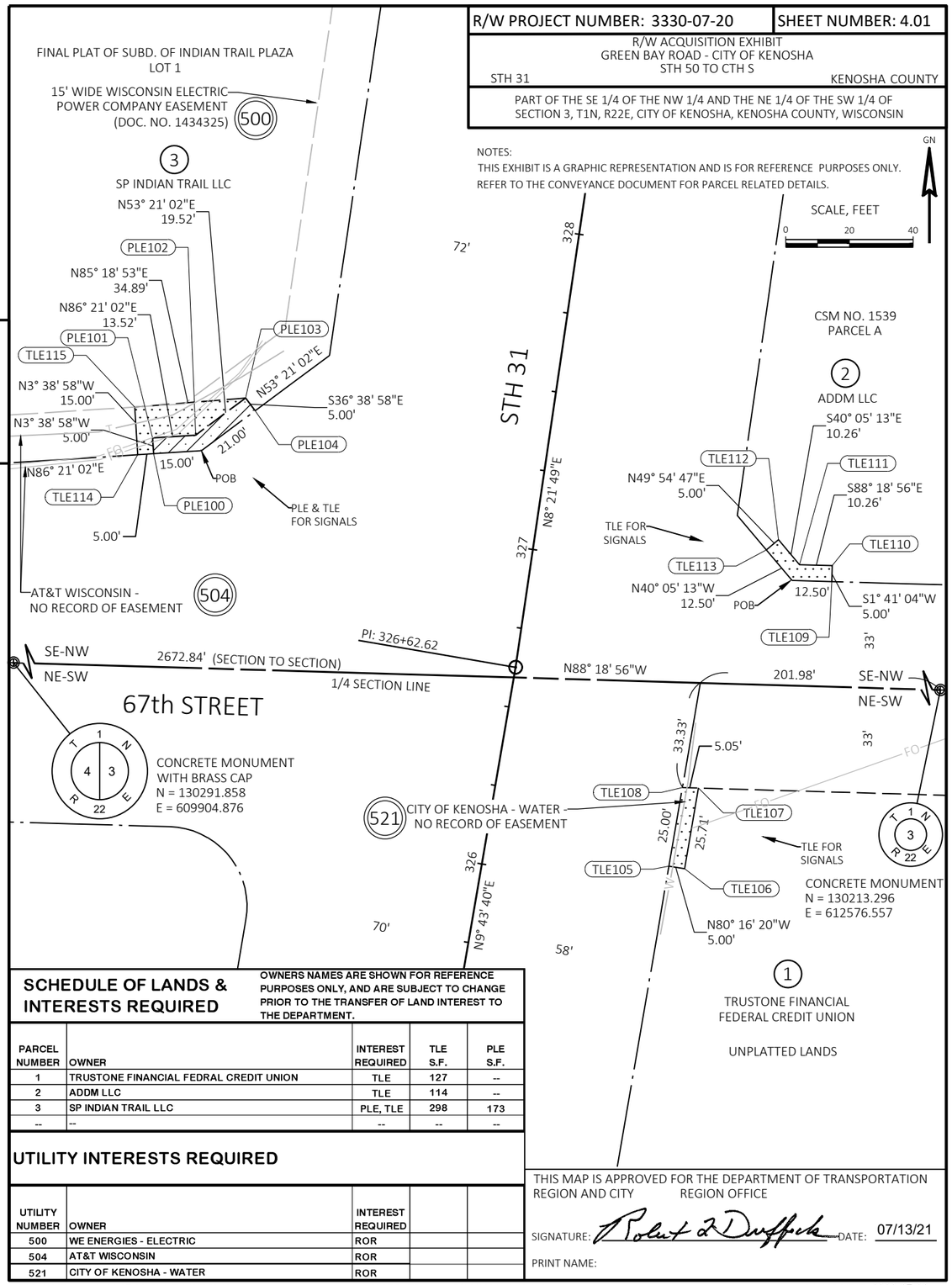
R/W PROJECT NUMBER: 3330-07-20	SHEET NUMBER: 4.01

R/W ACQUISITION EXHIBIT
GREEN BAY ROAD - CITY OF KENOSHA
STH 50 TO CTH S

STH 31 — KENOSHA COUNTY

PART OF THE SE 1/4 OF THE NW 1/4 AND THE NE 1/4 OF THE SW 1/4 OF SECTION 3, T1N, R22E, CITY OF KENOSHA, KENOSHA COUNTY, WISCONSIN

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.



4

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	TLE S.F.	PLE S.F.
1	TRUSTONE FINANCIAL FEDRAL CREDIT UNION	TLE	127	--
2	ADDM LLC	TLE	114	--
3	SP INDIAN TRAIL LLC	PLE, TLE	298	173
--	--	--	--	--

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED		
500	WE ENERGIES - ELECTRIC	ROR		
504	AT&T WISCONSIN	ROR		
521	CITY OF KENOSHA - WATER	ROR		

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
REGION AND CITY REGION OFFICE

SIGNATURE: Robert D Duffeck DATE: 07/13/21

PRINT NAME:

FILE NAME : 3330-07-20_RW_EXHIBIT.DWG PLOT DATE : 5/26/2021 10:18 AM R/W PROJECT: 3330-07-20

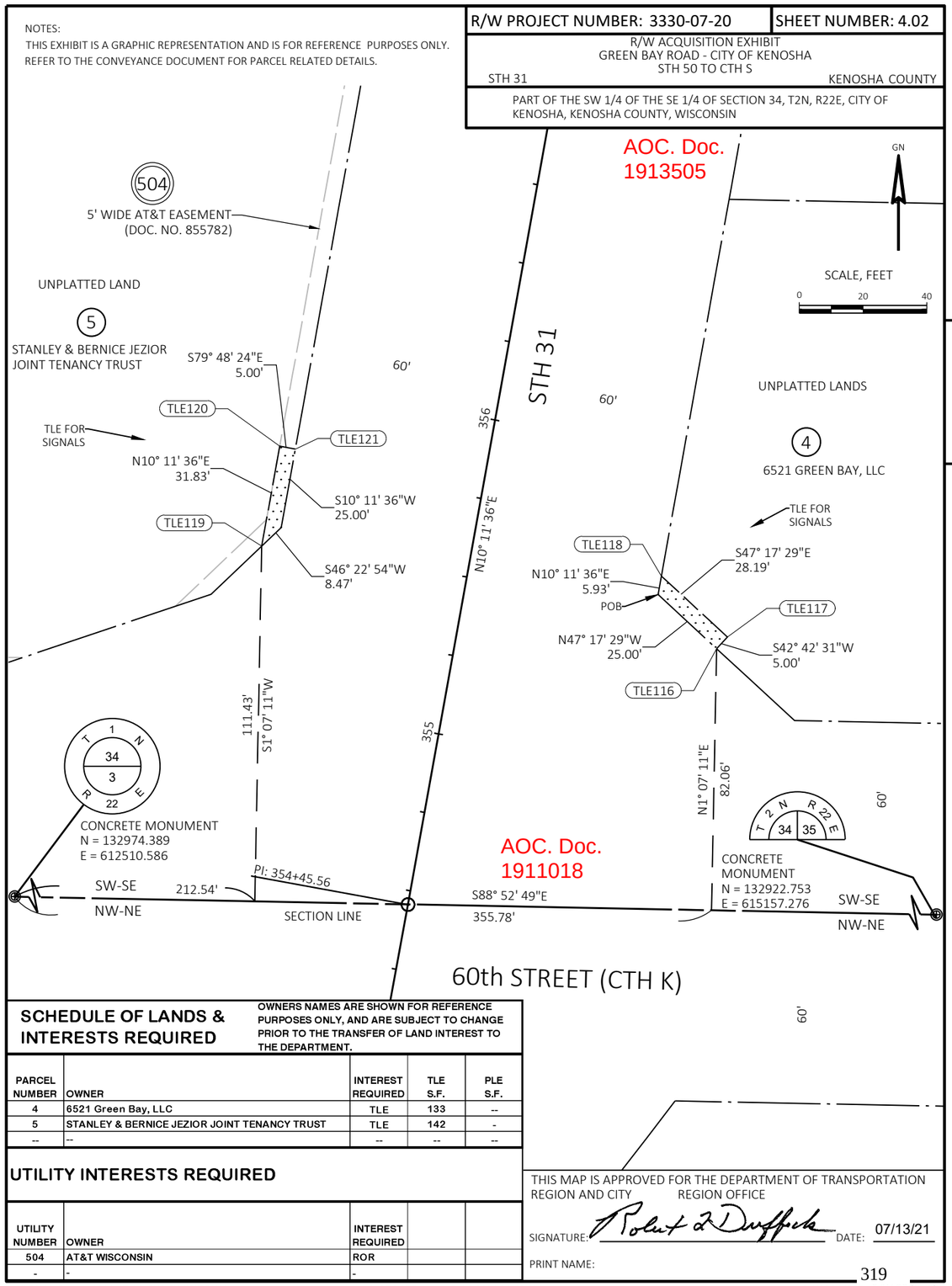
R/W PROJECT NUMBER: 3330-07-20	SHEET NUMBER: 4.02

R/W ACQUISITION EXHIBIT
GREEN BAY ROAD - CITY OF KENOSHA
STH 50 TO CTH S

STH 31 — KENOSHA COUNTY

PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 34, T2N, R22E, CITY OF KENOSHA, KENOSHA COUNTY, WISCONSIN

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY.
REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.



4

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	TLE S.F.	PLE S.F.
4	6521 Green Bay, LLC	TLE	133	--
5	STANLEY & BERNICE JEZIOR JOINT TENANCY TRUST	TLE	142	-
--	--	--	--	--

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED		
504	AT&T WISCONSIN	ROR		
-	-	-		

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
REGION AND CITY REGION OFFICE

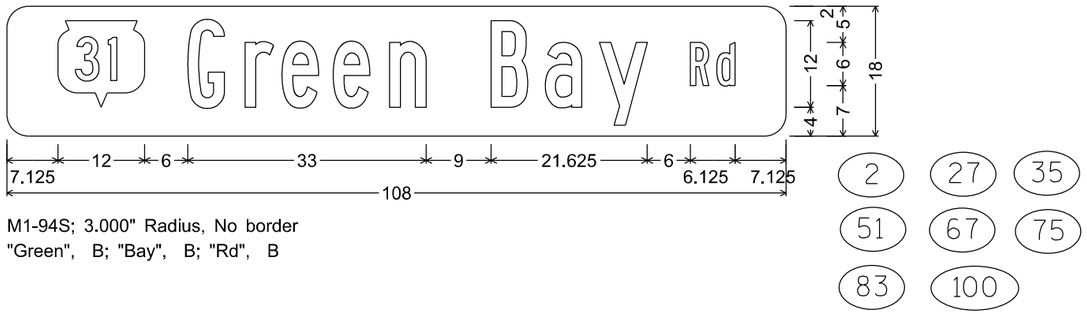
SIGNATURE: Robert D Duffeck DATE: 07/13/21

PRINT NAME:

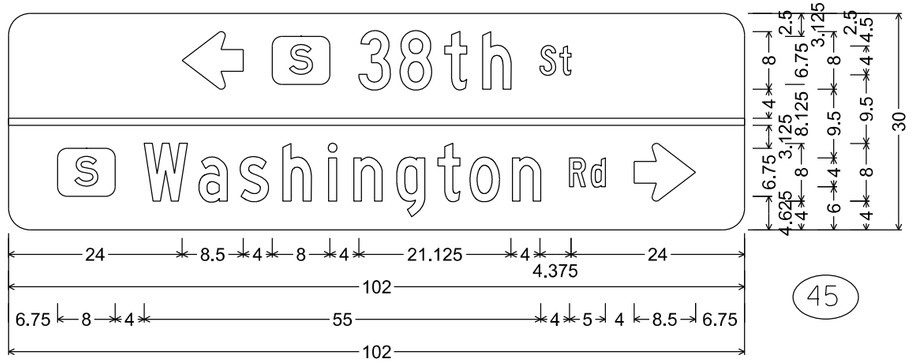
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NOTES

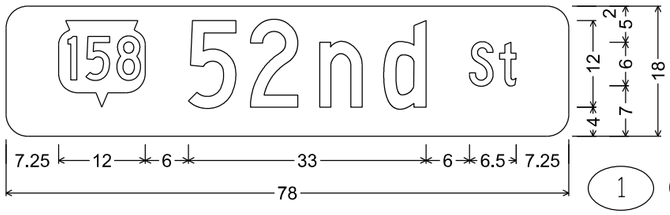
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C except as noted



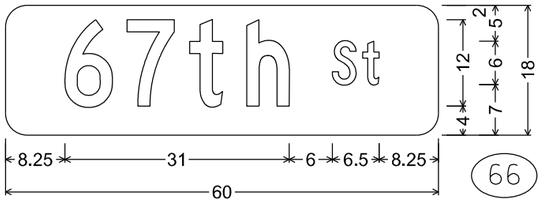
M1-94S; 3.000" Radius, No border
"Green", B; "Bay", B; "Rd", B



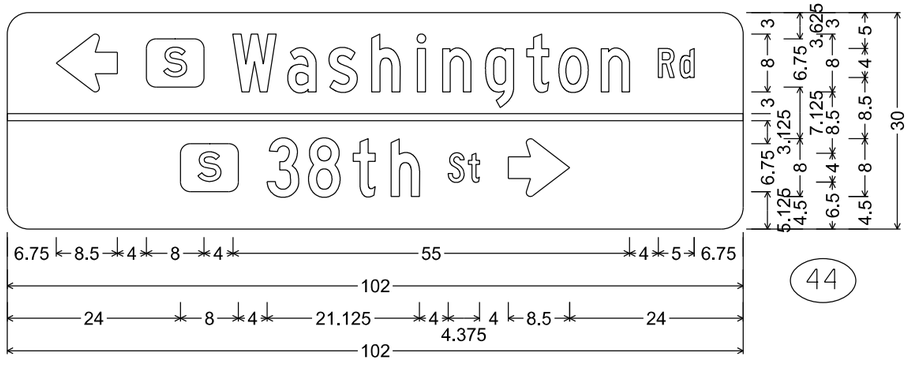
M1-94H; 3.000" Radius, No border



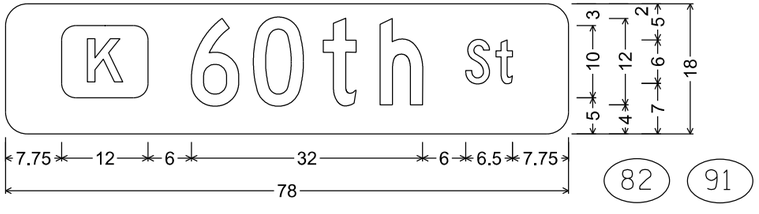
M1-94S; 3.000" Radius, No border



M1-94H; 3.000" Radius, No border

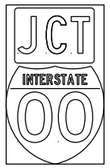


M1-94H; 3.000" Radius, No border

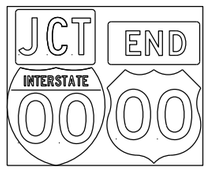


M1-94H; 3.000" Radius, No border

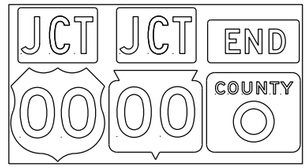
TYPICAL ASSEMBLIES



J1-1



J1-2



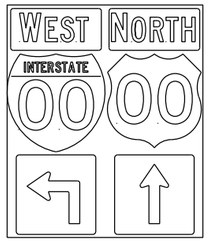
J1-3



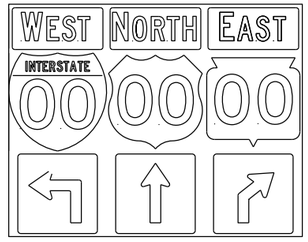
JR1-1



J2-1



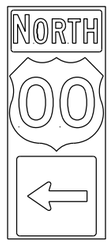
J2-2



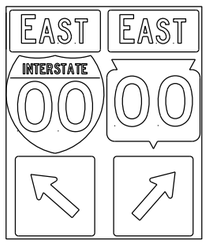
J2-3



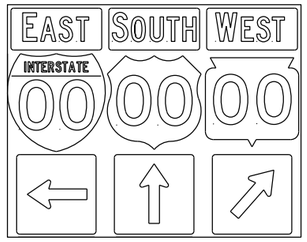
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



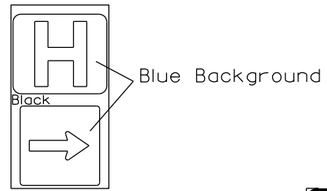
J3-1



J3-2



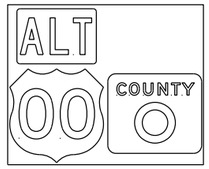
J3-3



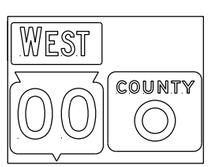
JH-1



J4-1



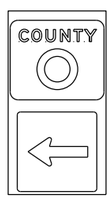
J4-2



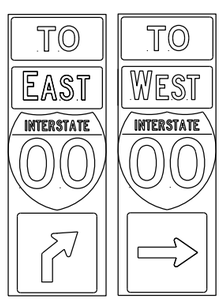
J4-2



J12-1

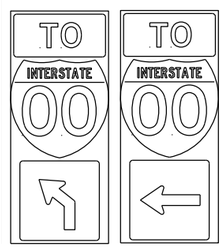


J13-1



J32-1

J33-1



J22-1

J23-1



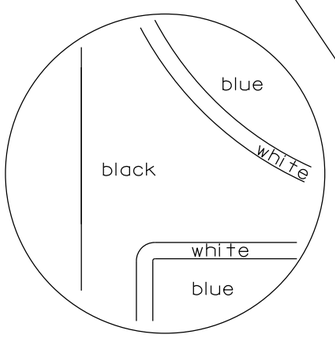
JR13-1



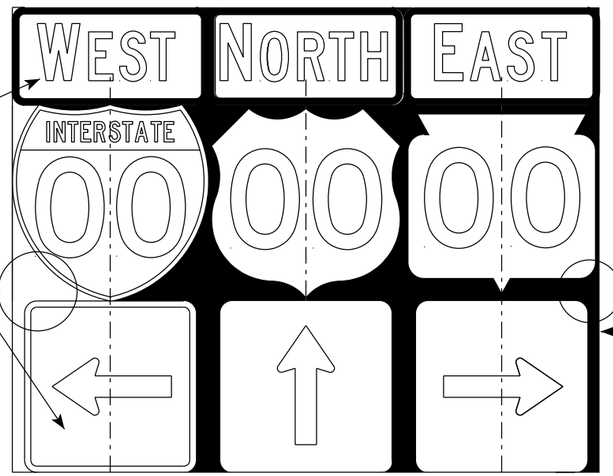
JR23-1

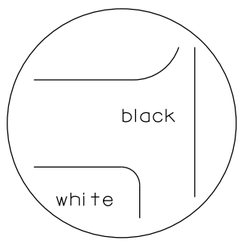


JR99-1



blue background
with interstate





black background

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

SHEET NO: 321 E

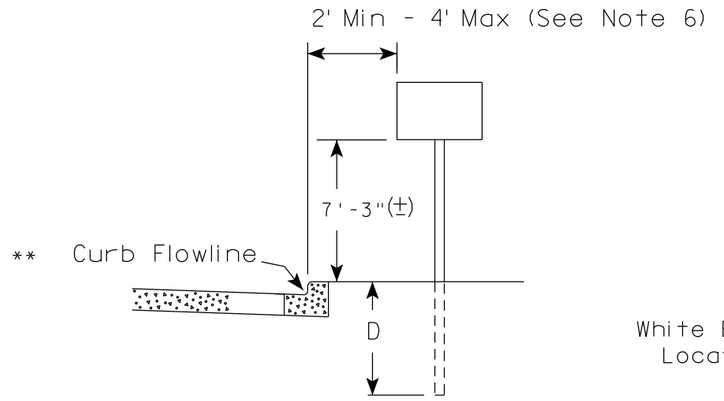
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

WISDOT/CADDS SHEET 42

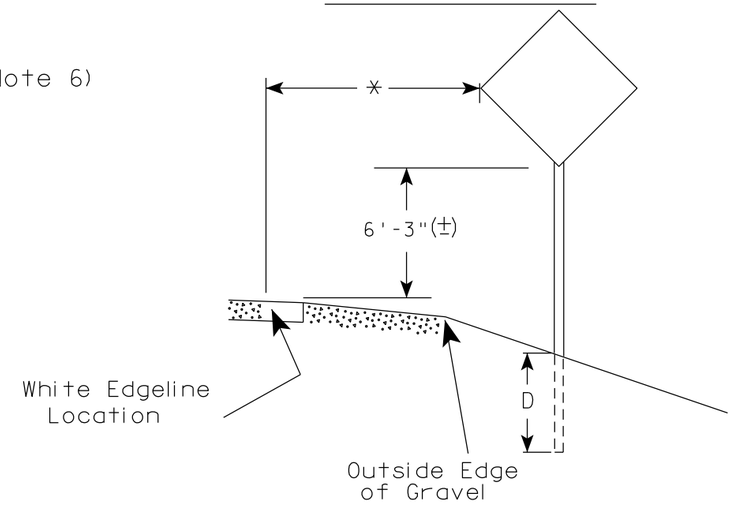
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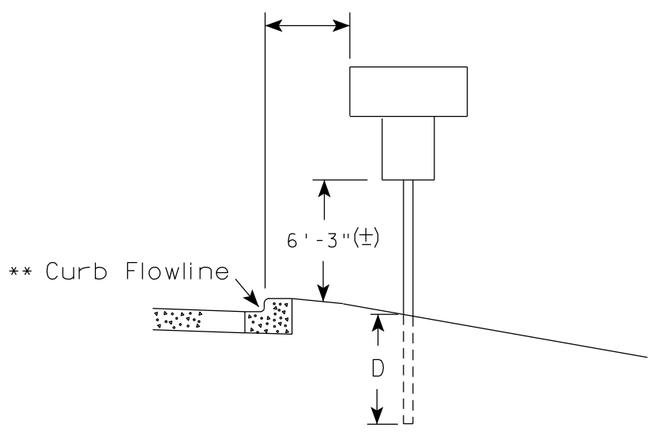
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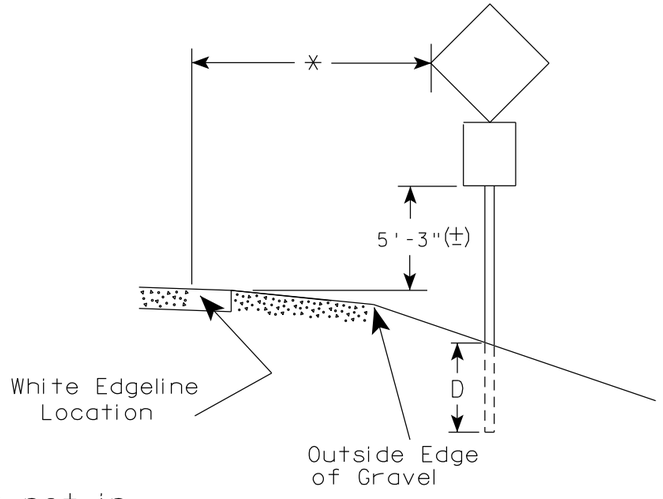
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

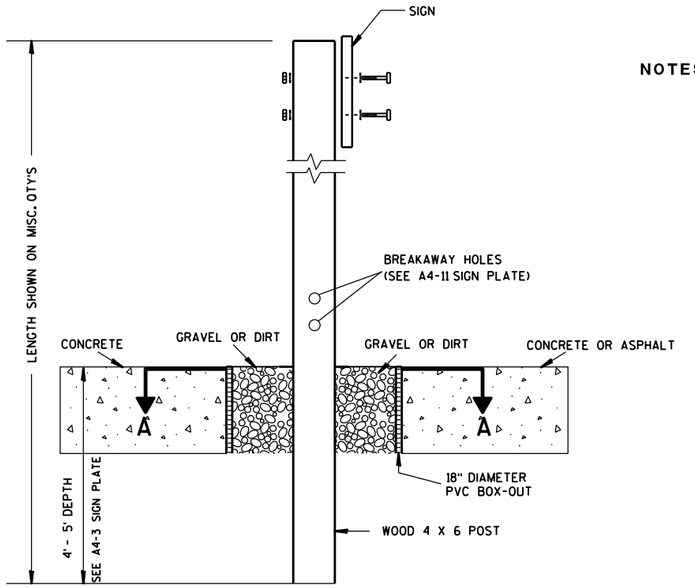
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

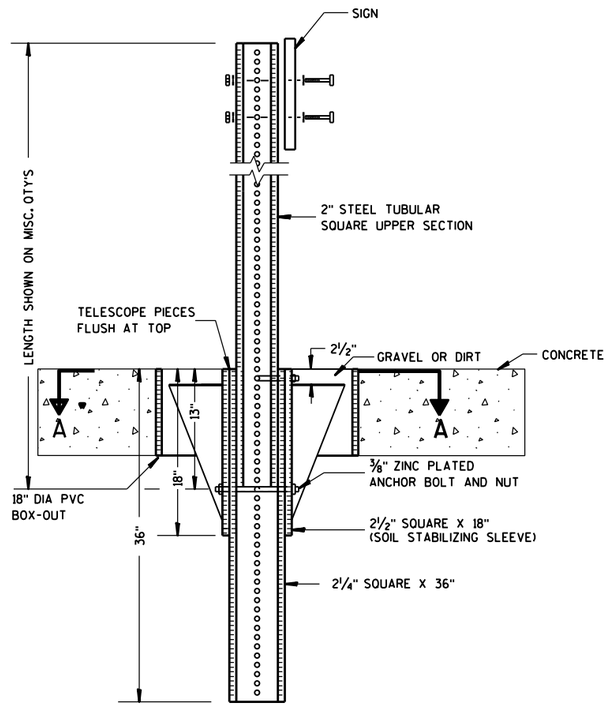
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 322	E



ELEVATION VIEW

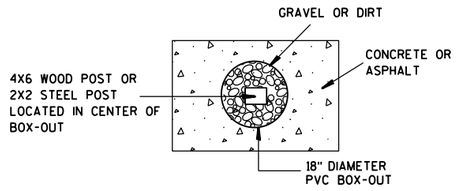
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

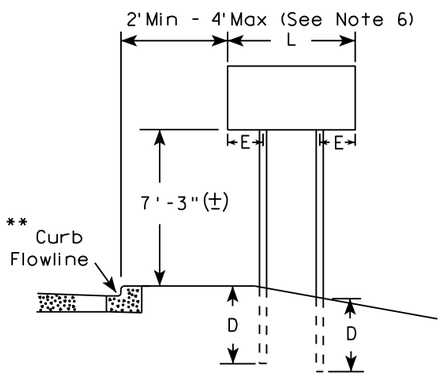
APPROVED Matthew R Rauch
for State Traffic Engineer

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

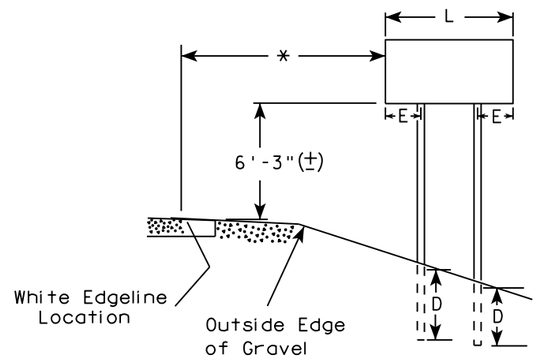
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

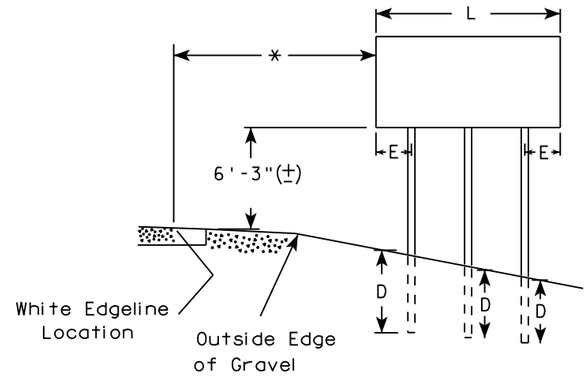
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

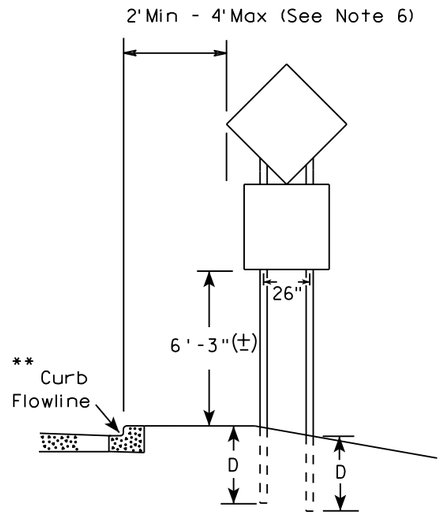
URBAN AREA



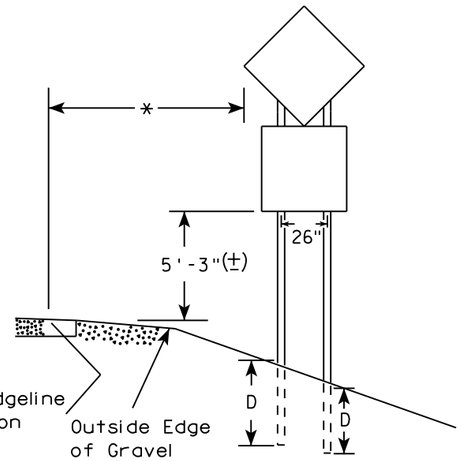
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

GENERAL NOTES

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

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

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

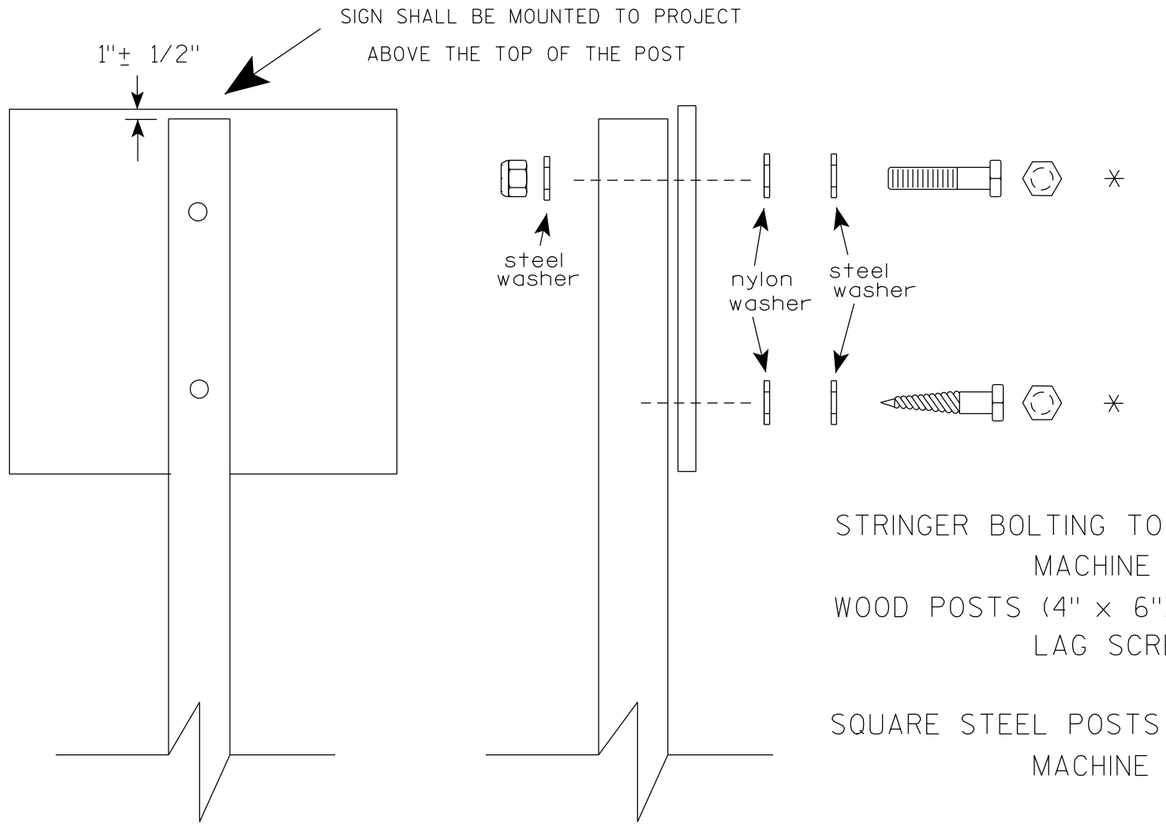
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 324	E



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

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

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

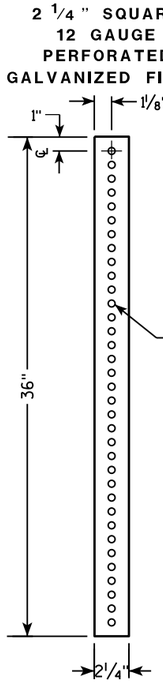
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

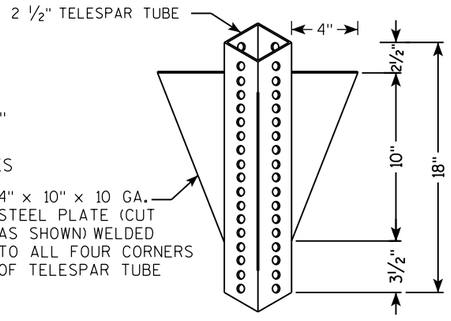
SHEET NO: 325 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

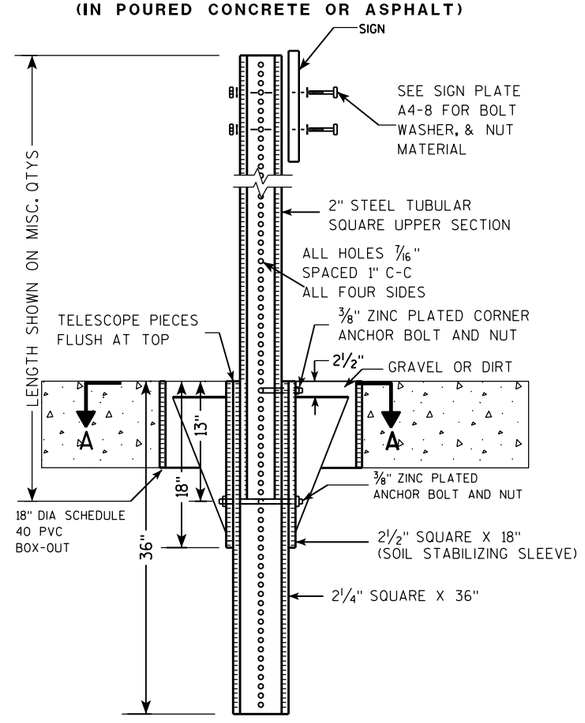
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



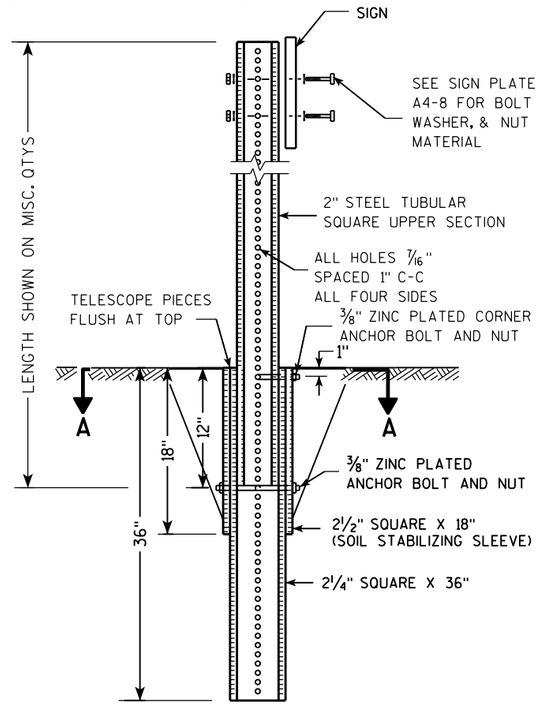
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

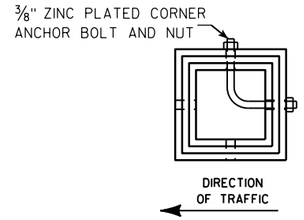


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

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

TUBULAR STEEL
SIGN POST
A4-9

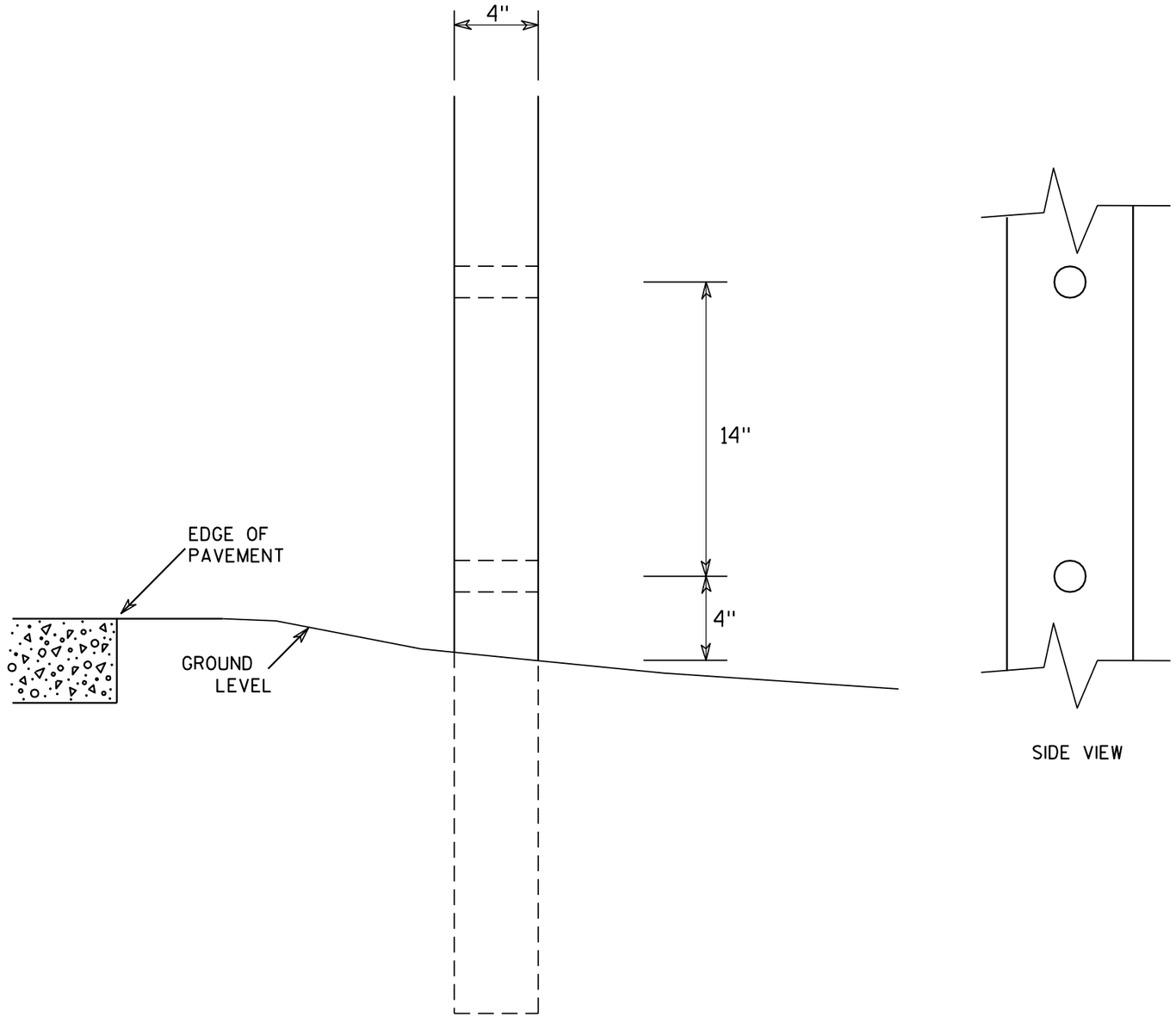
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

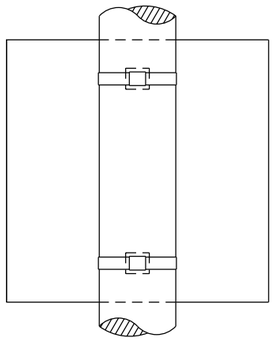
APPROVED Chester J Spang
for State Traffic Engineer

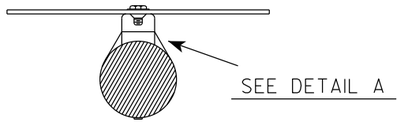
DATE 3/27/97 PLATE NO. A4-11.2

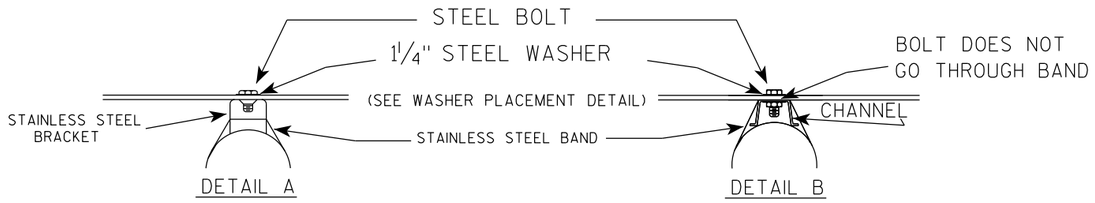
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 327	E

BANDING

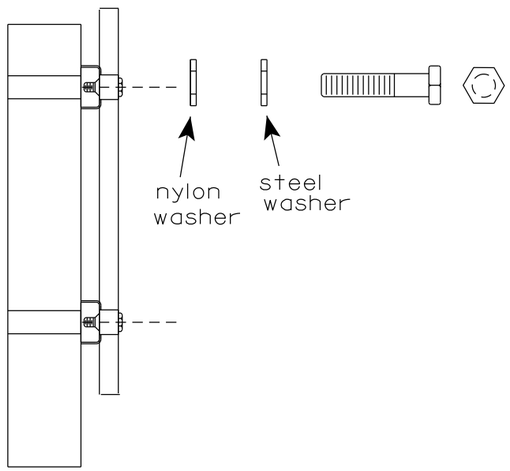
SINGLE SIGN







WASHER PLACEMENT

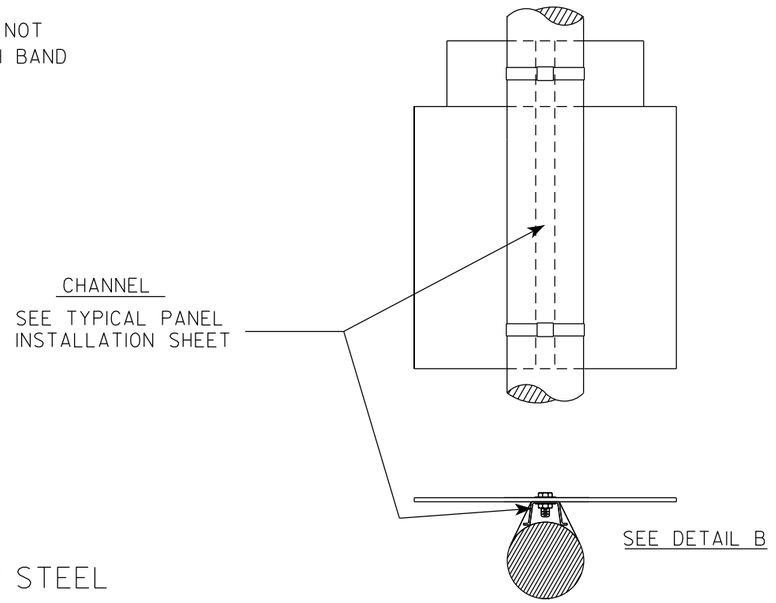


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

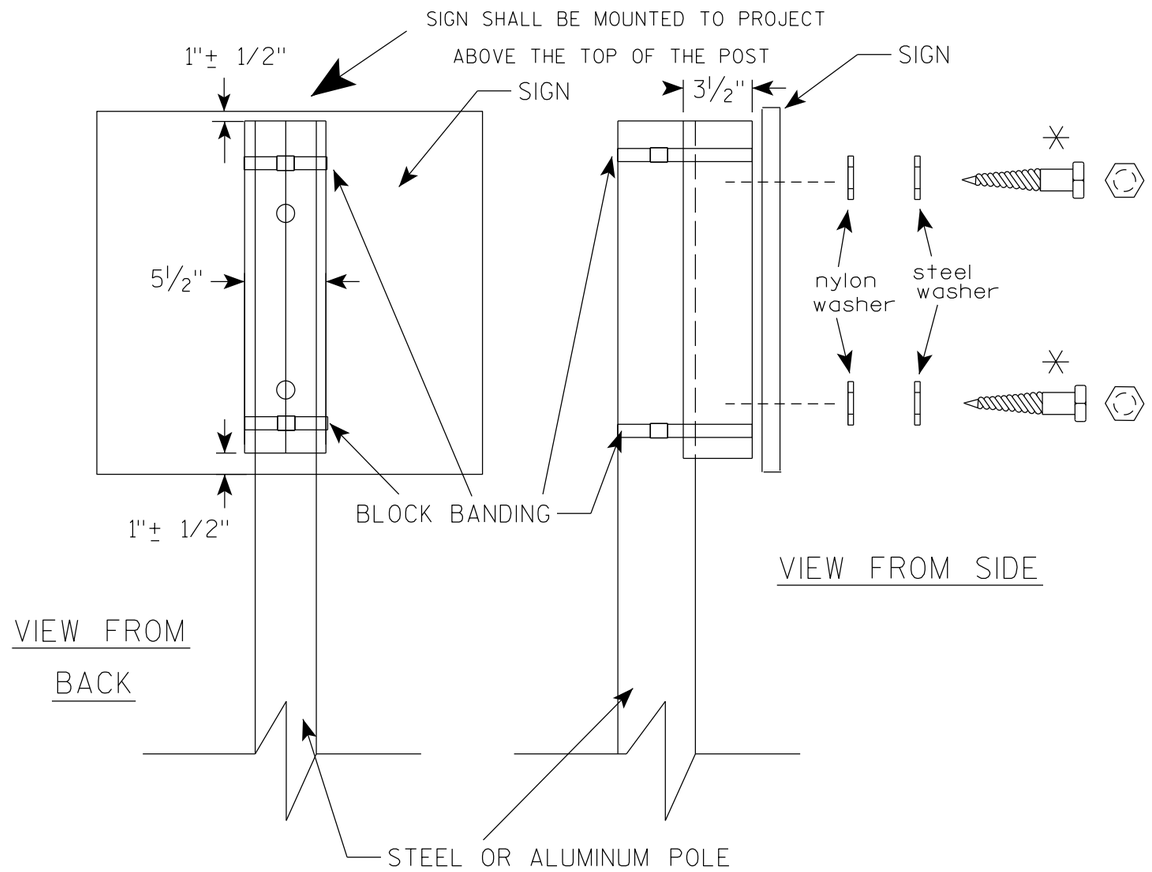
DATE 6/10/19 PLATE NO. A5-9.4

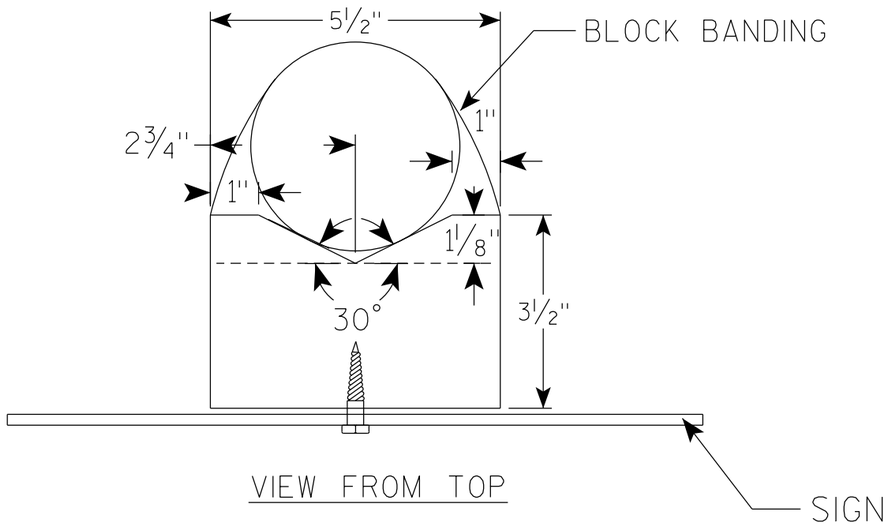
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 328	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

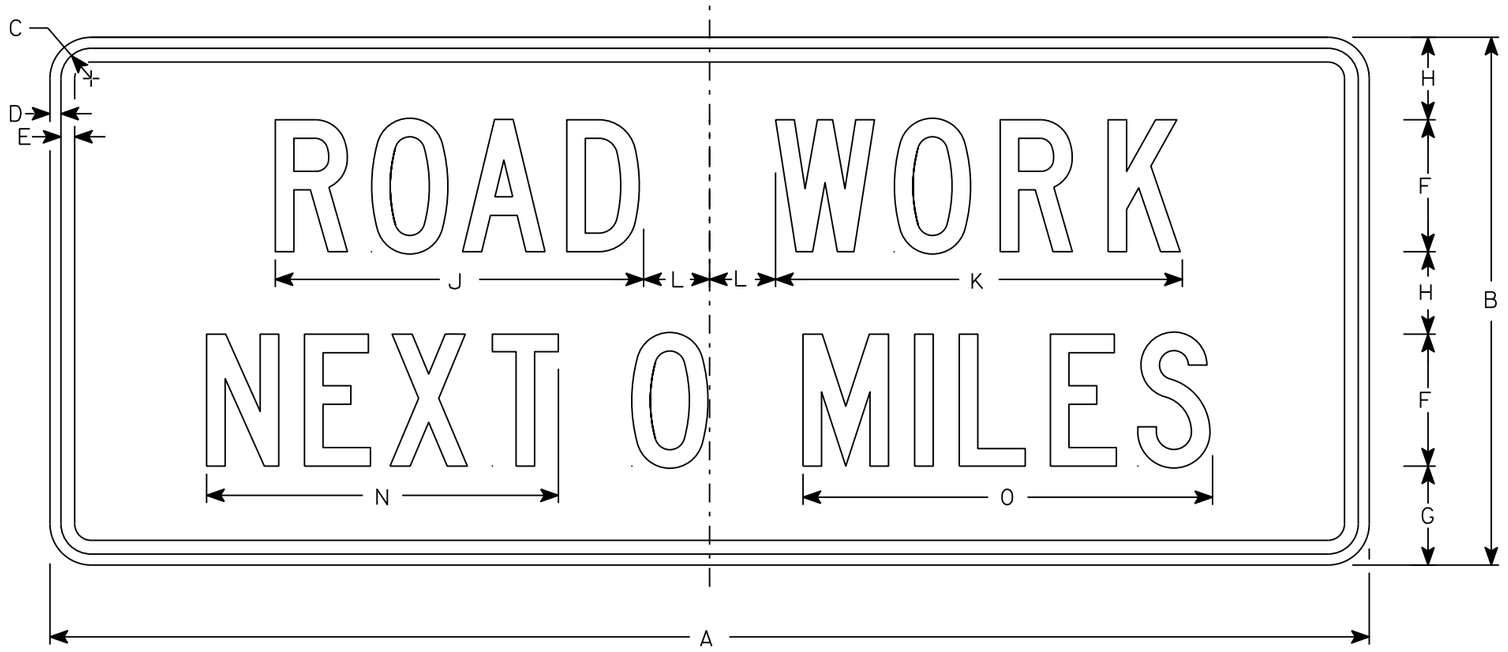
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 329 E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

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

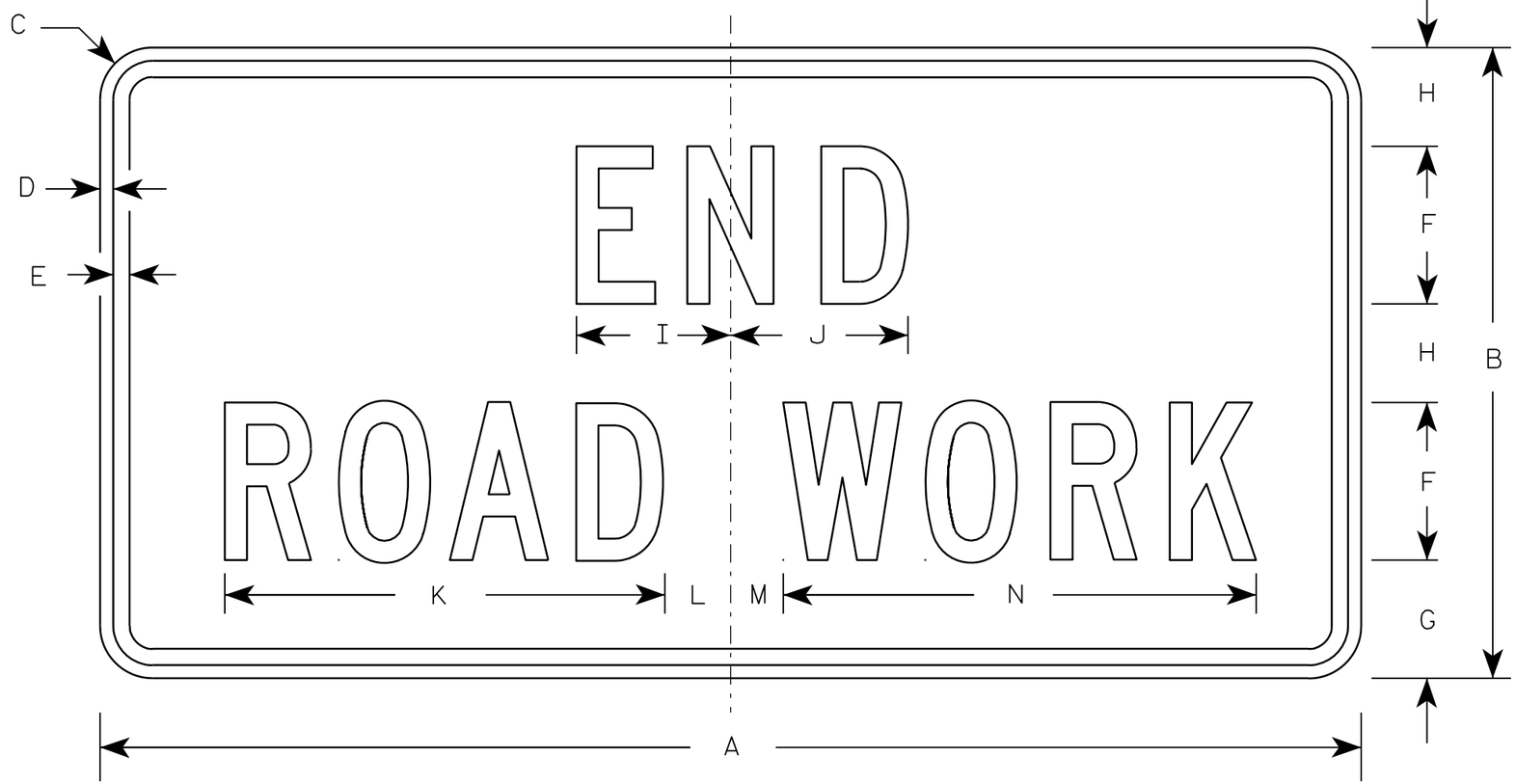
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 330	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

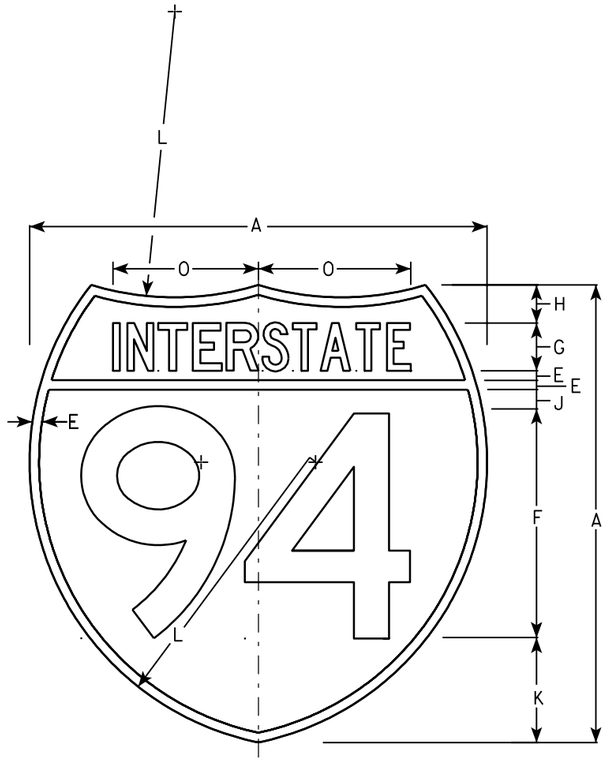
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

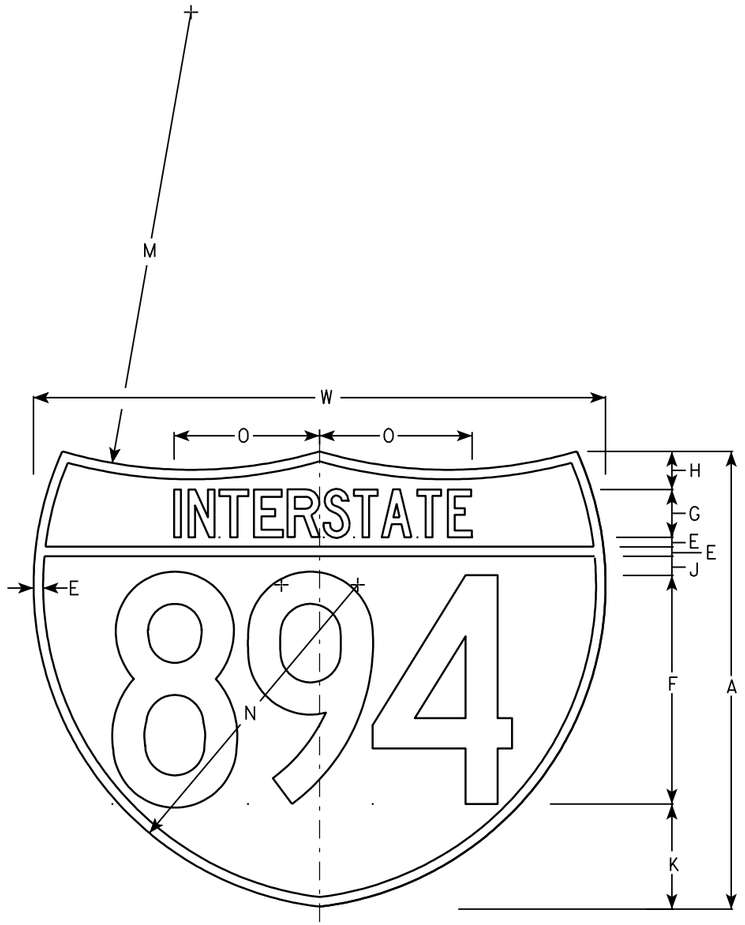
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 331	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

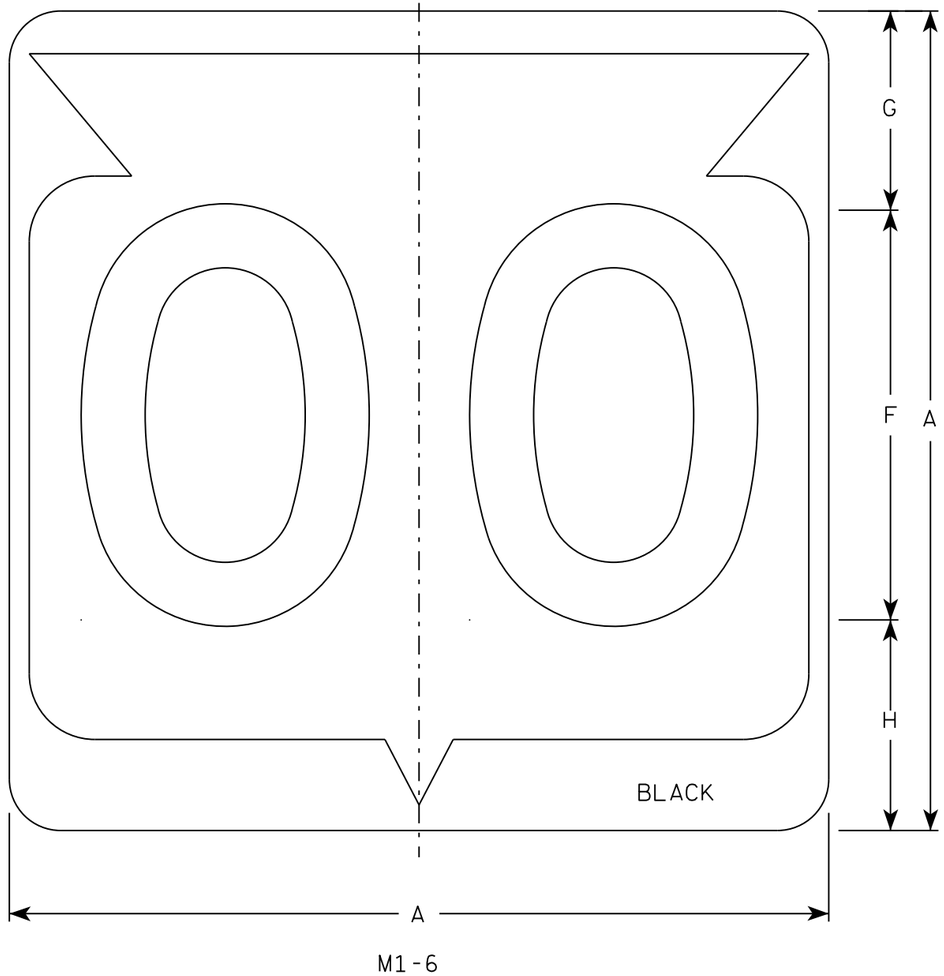
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

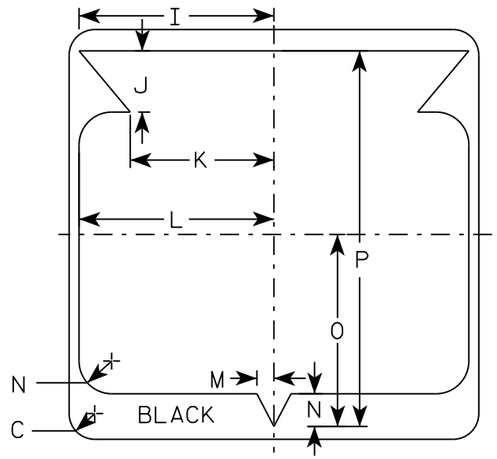
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 332	E



M1-6

NOTES

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



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

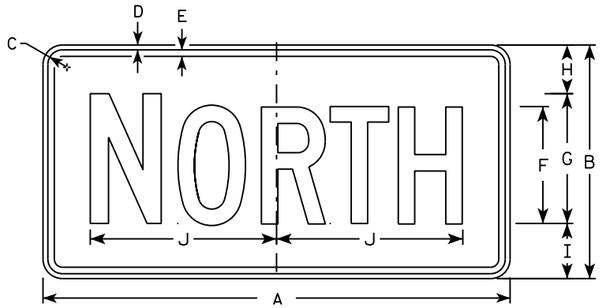
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

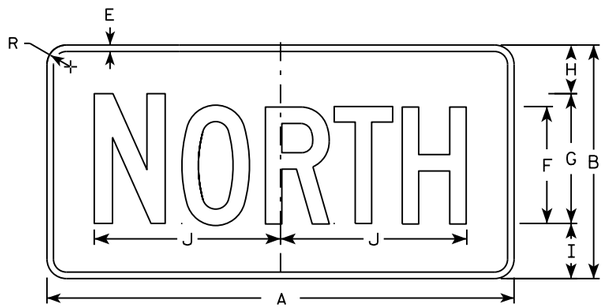
APPROVED Matthew R Rauch for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 333	E



M3-1
MM3-1
MP3-1



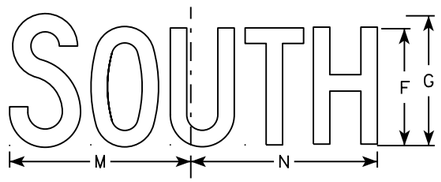
MB3-1
MK3-1
MN3-1



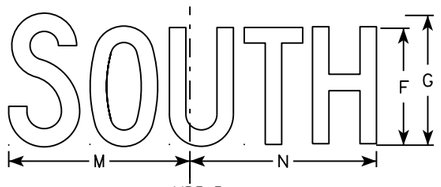
M3-2
MM3-2
MP3-2



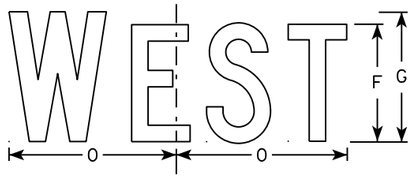
MB3-2
MK3-2
MN3-2



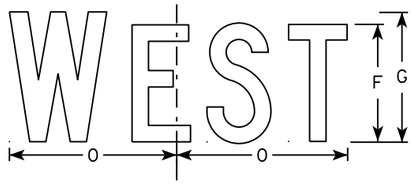
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

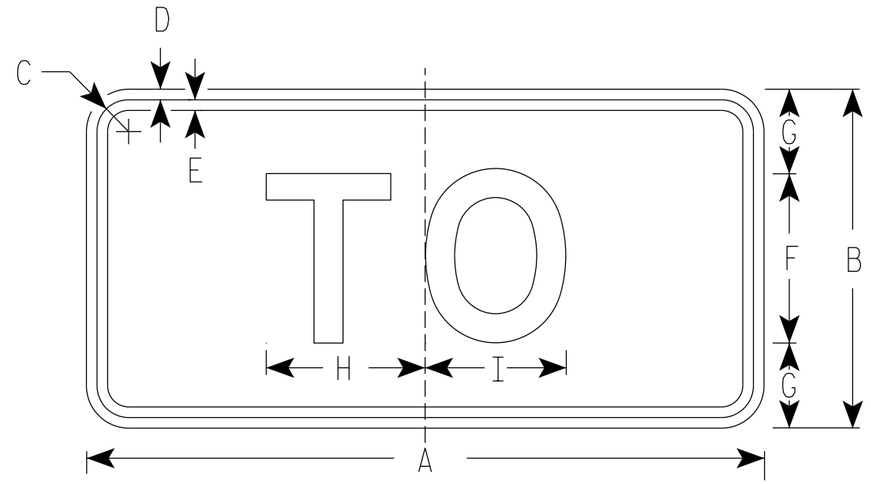
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

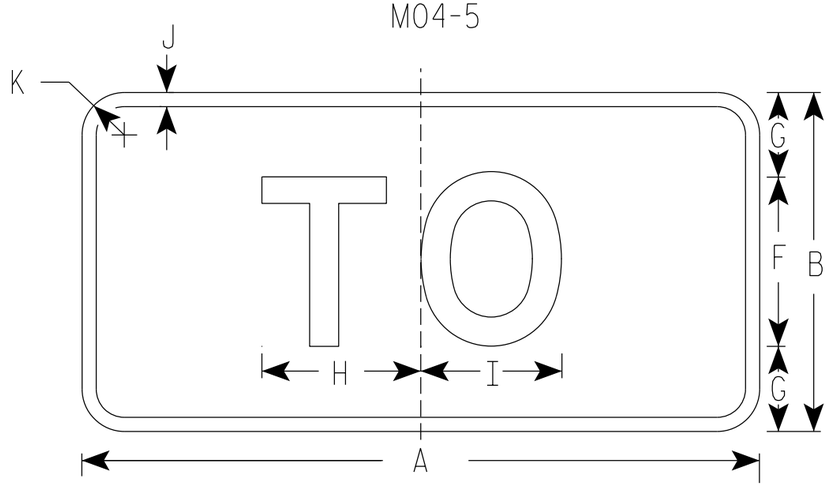
DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

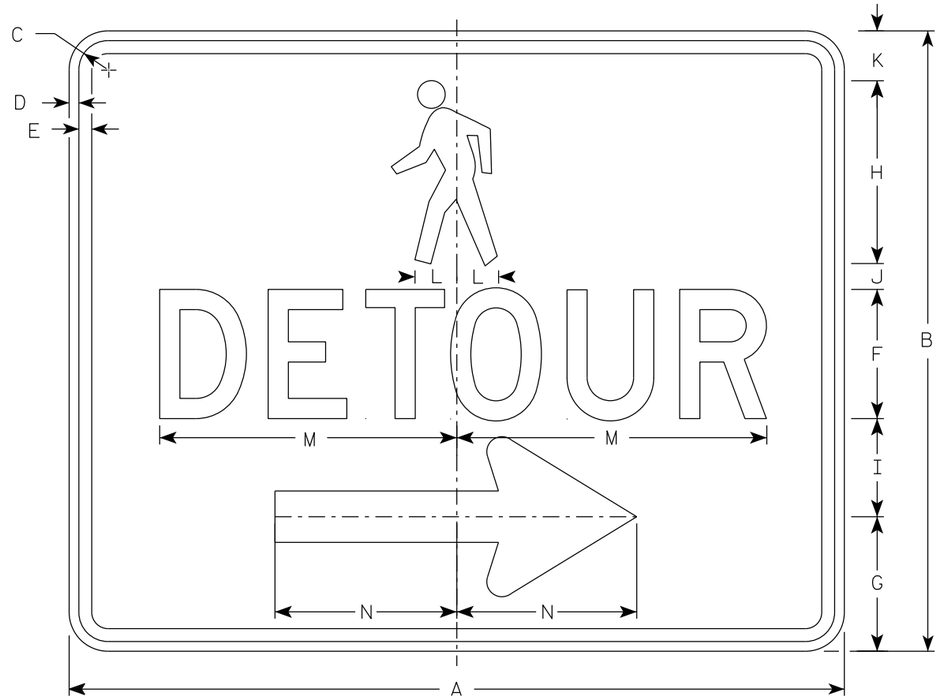
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

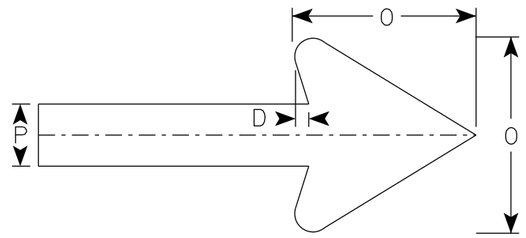
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 335 | E



M4-9BR

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

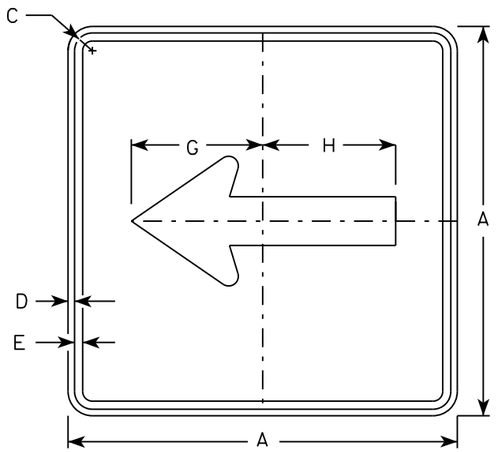
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

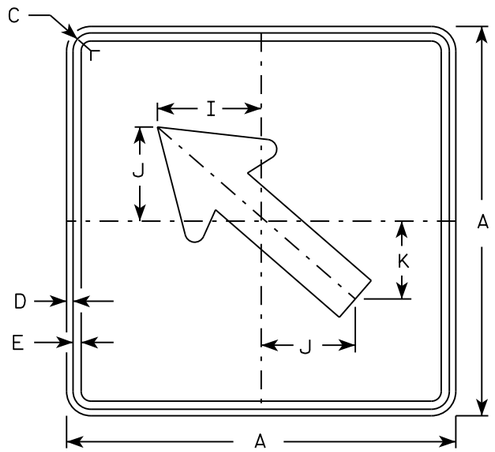
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 336 | E



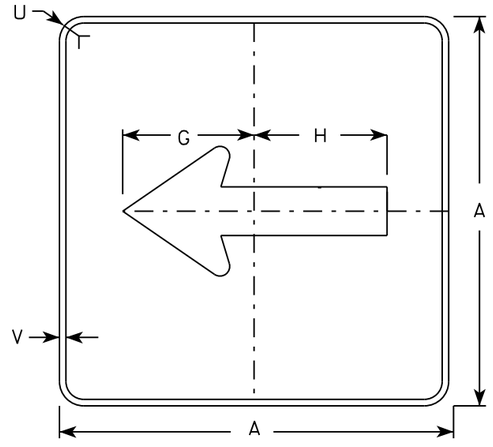
M6-1
MM6-1
MO6-1
MP6-1



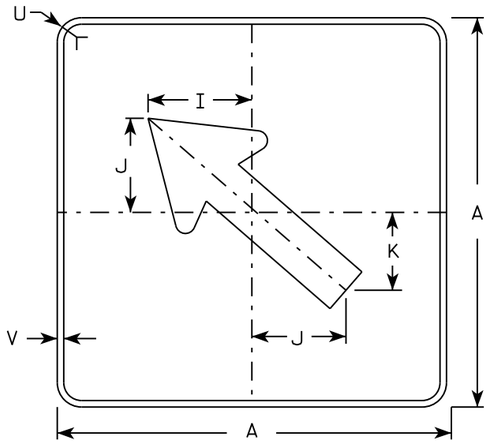
M6-2
MM6-2
MO6-2
MP6-2

NOTES

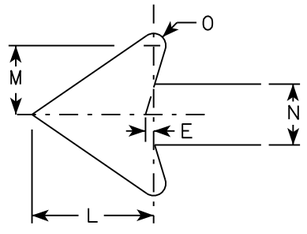
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



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



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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

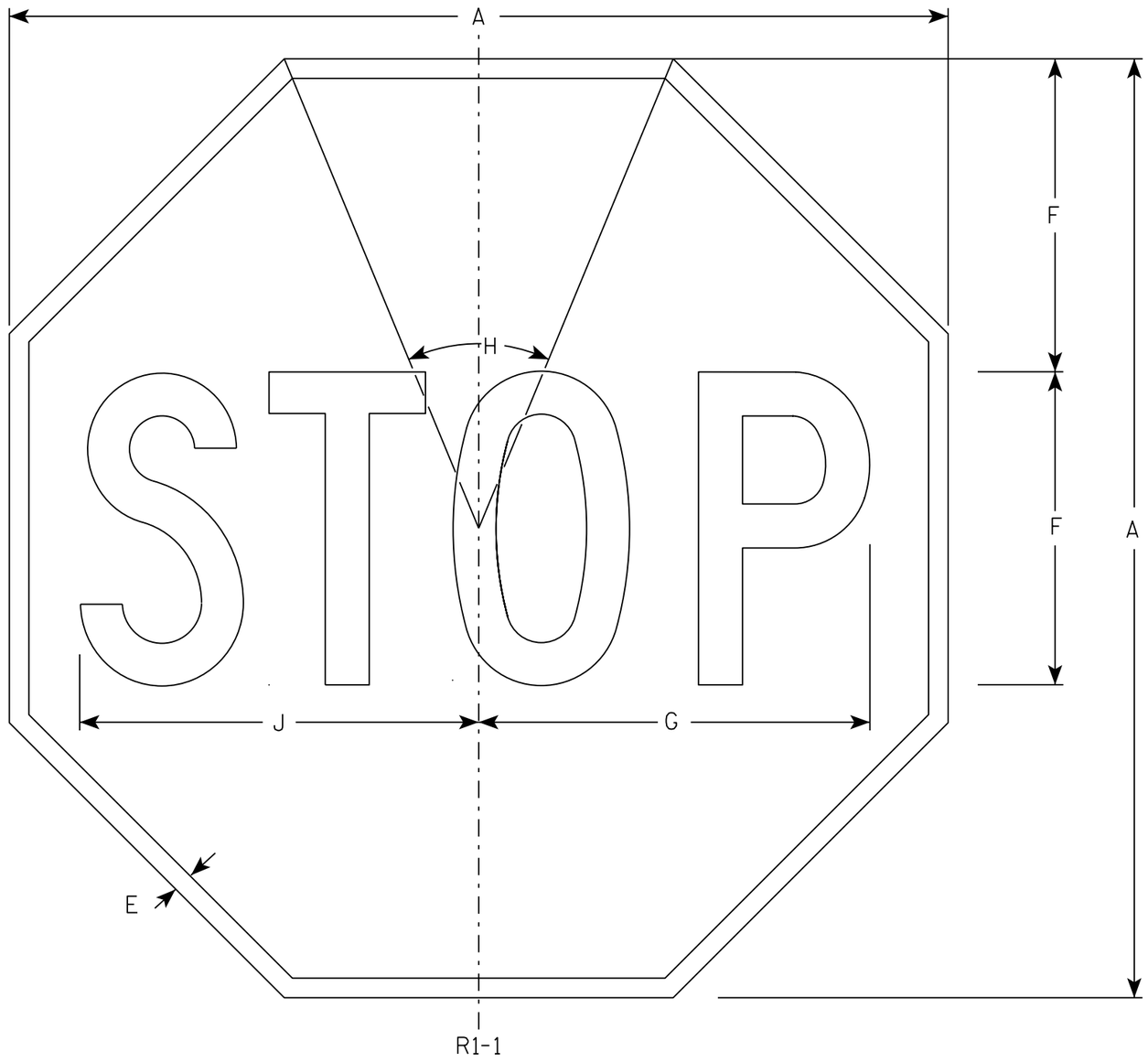
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 337 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

R1-1

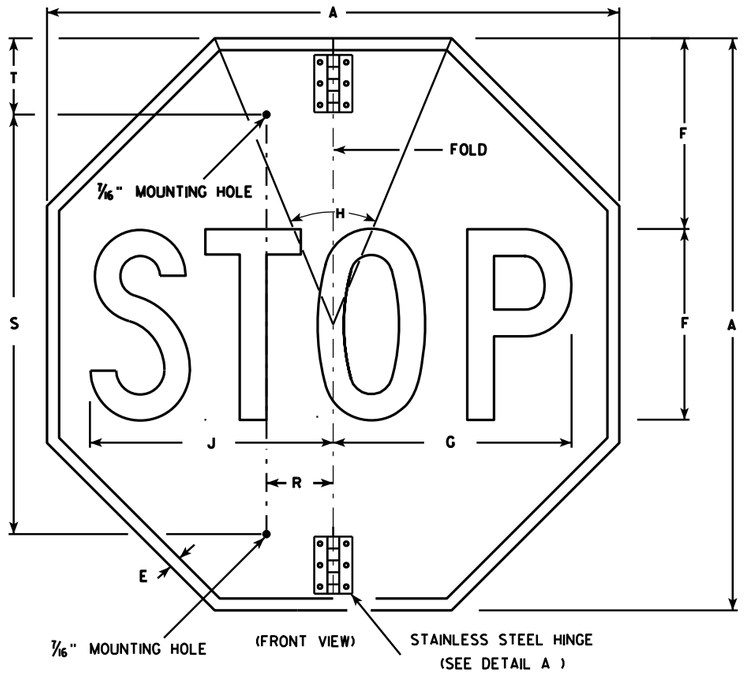
WISCONSIN DEPT OF TRANSPORTATION

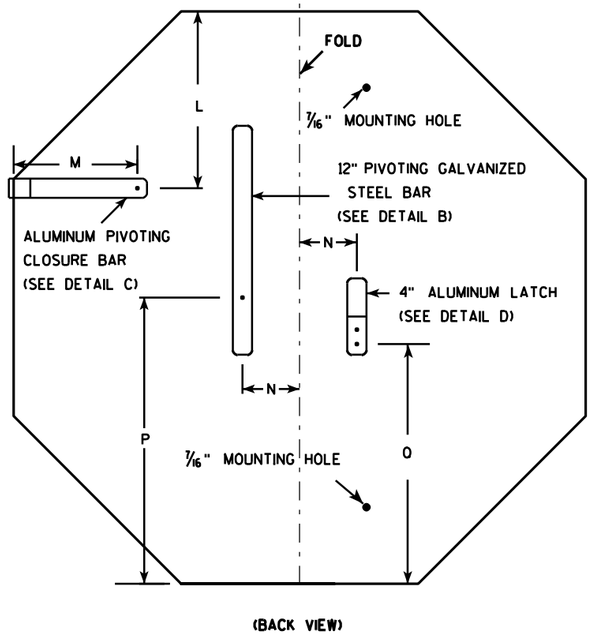
APPROVED Matthew R Rauch

for State Traffic Engineer

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

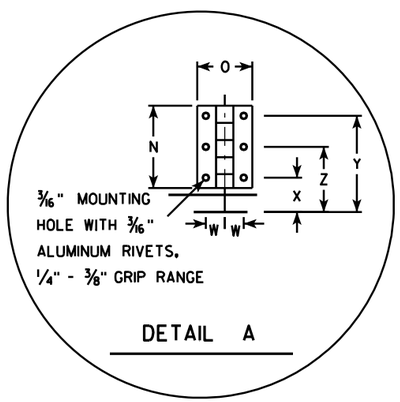
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 338	E



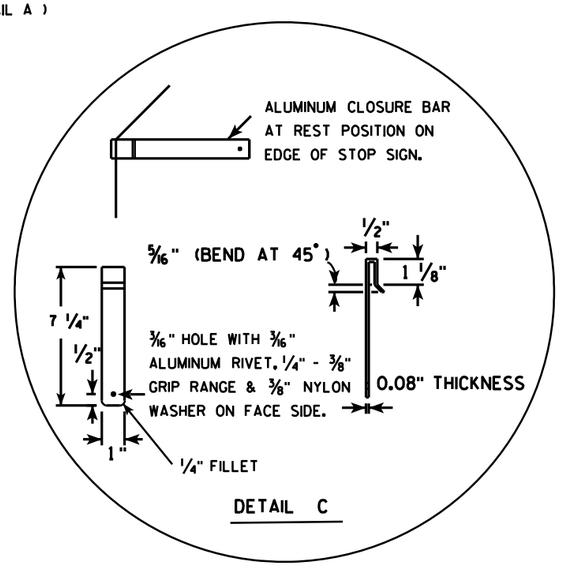


NOTES

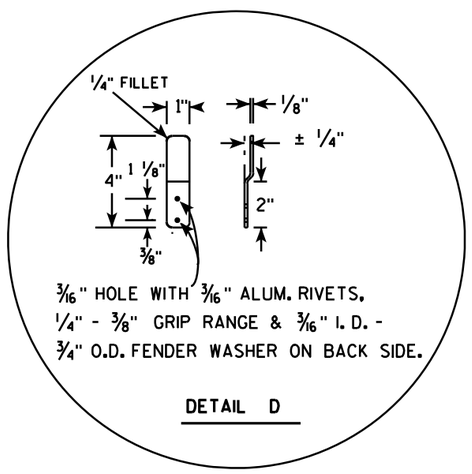
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



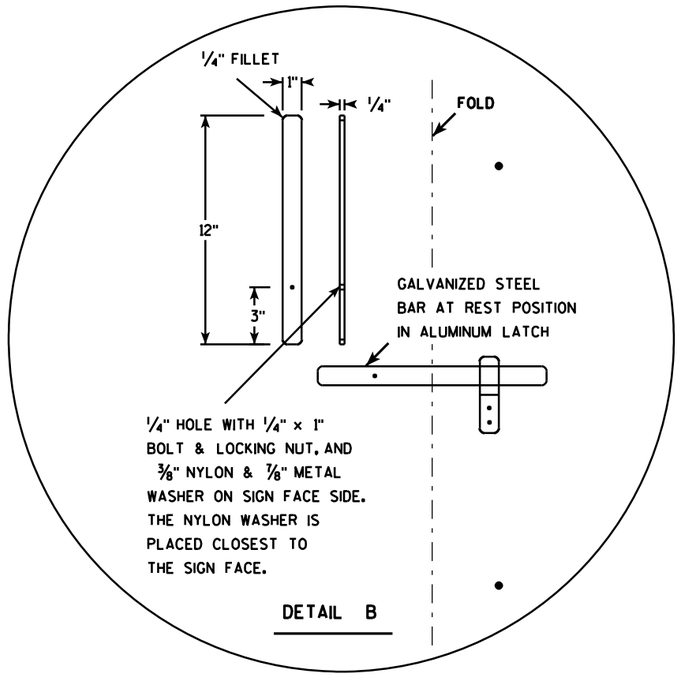
DETAIL A



DETAIL C



DETAIL D



DETAIL B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

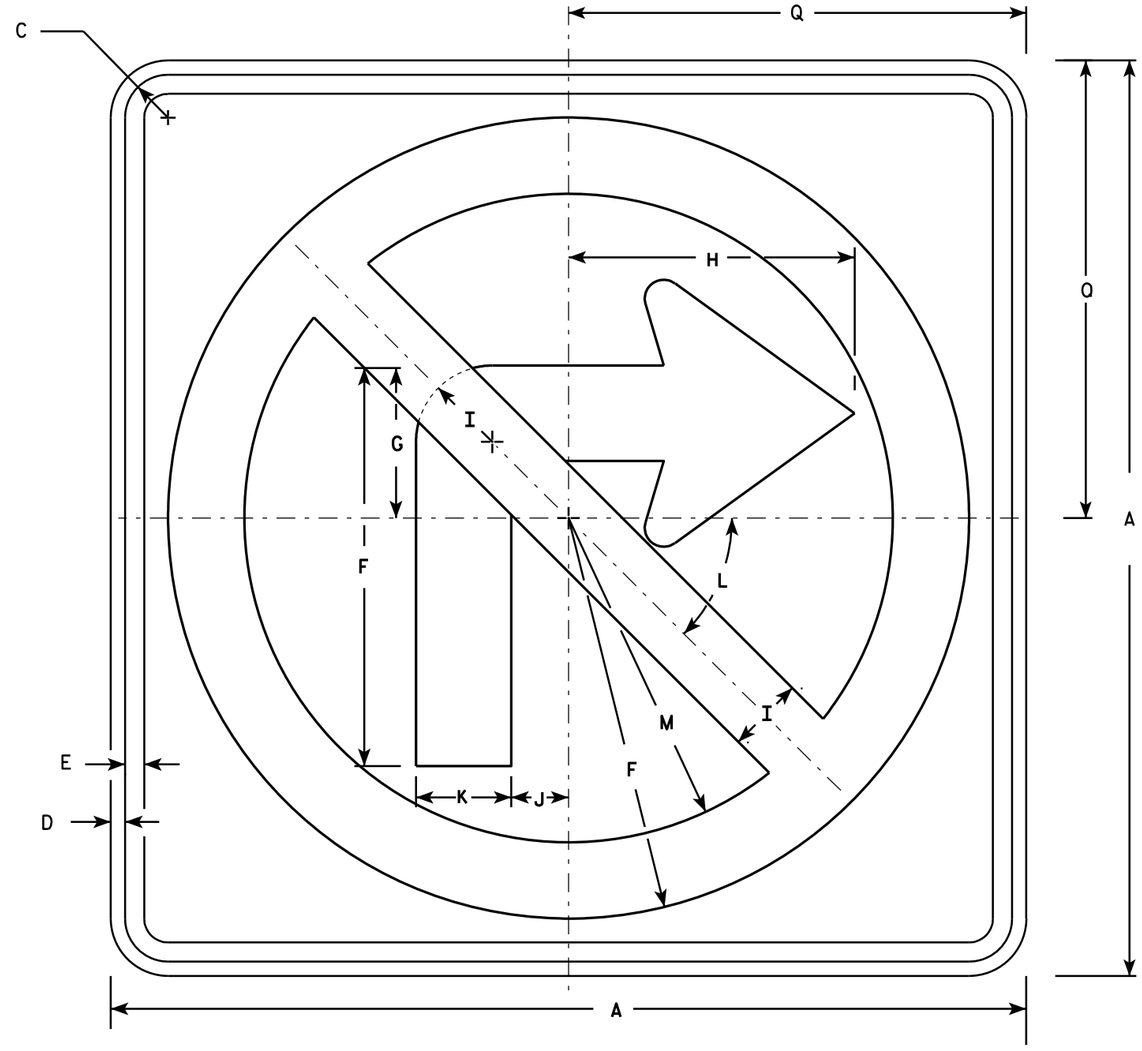
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

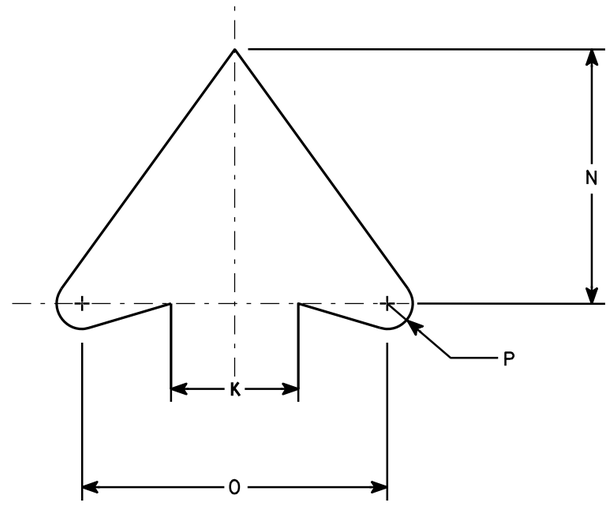
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 339	E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

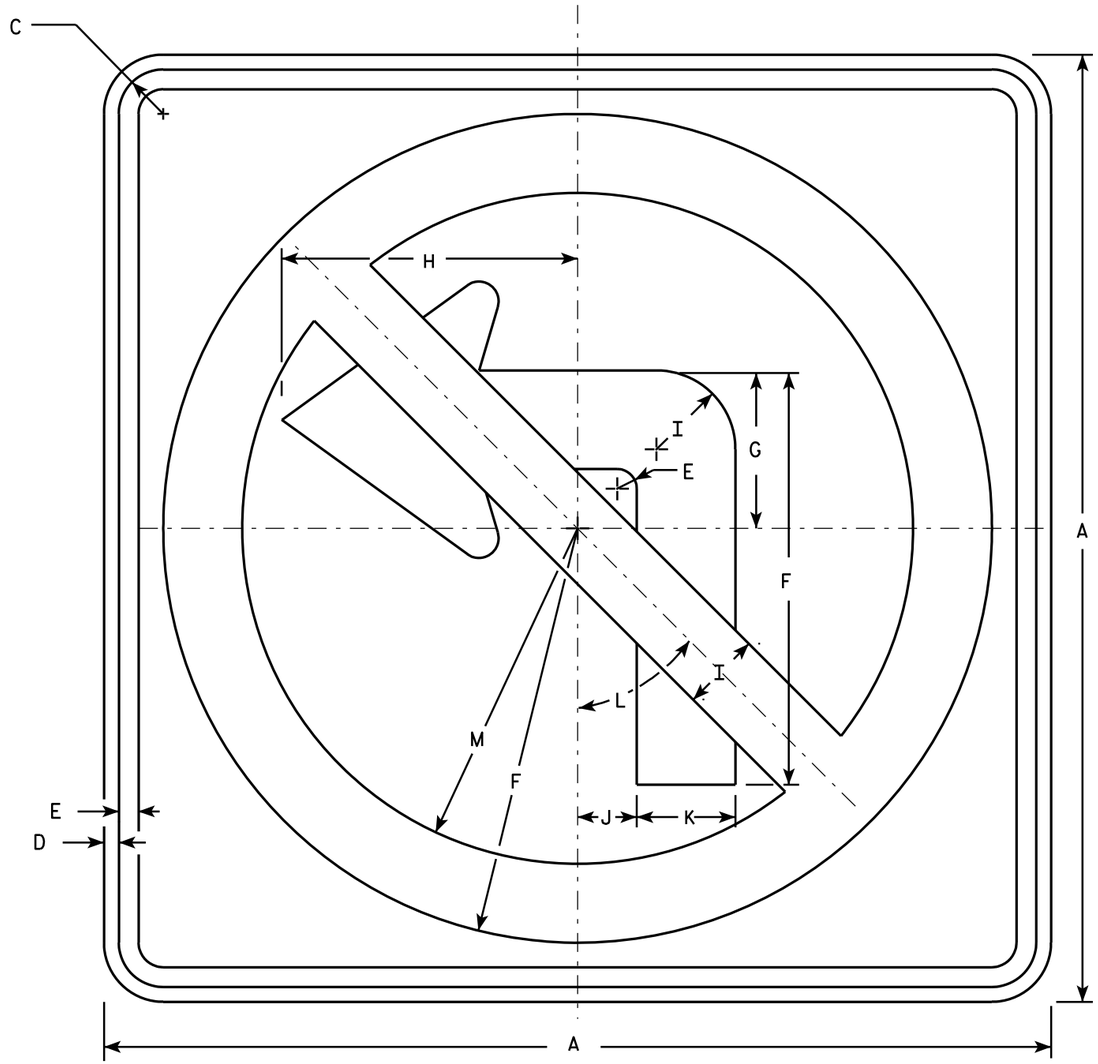
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

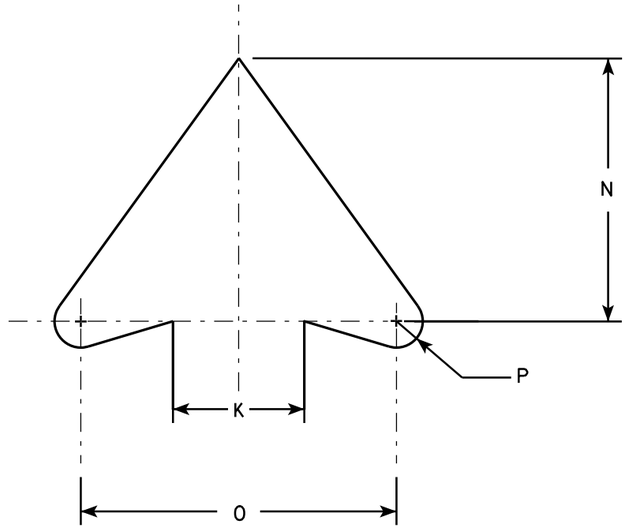
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 340	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

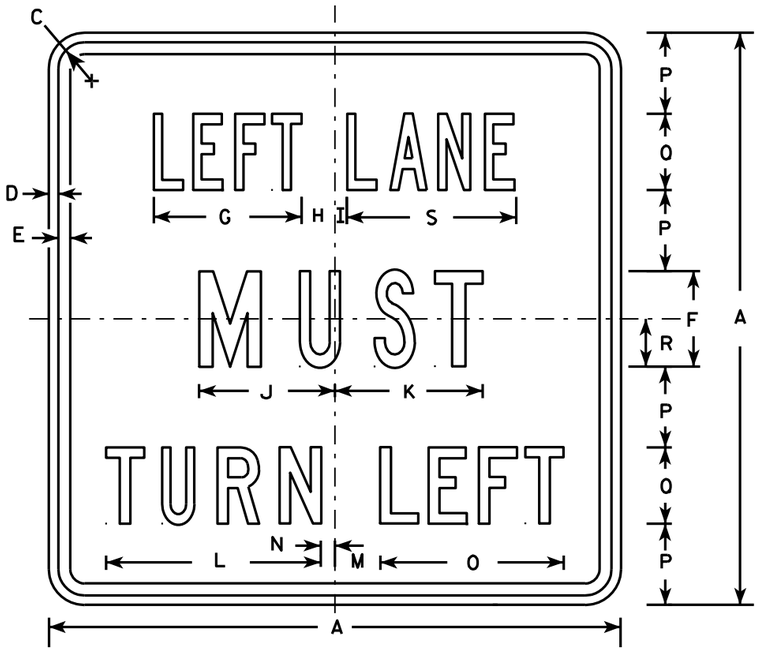
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

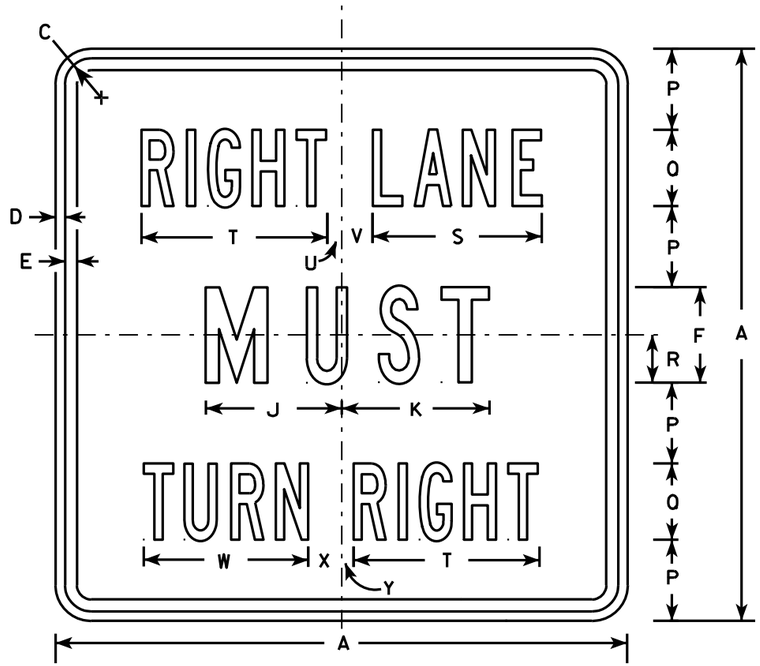
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 341	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

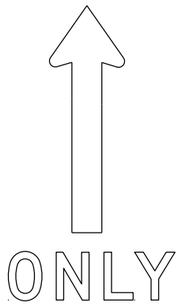
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

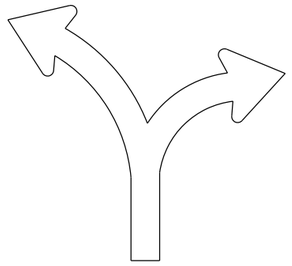
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 342 | E

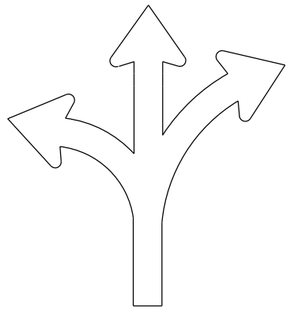


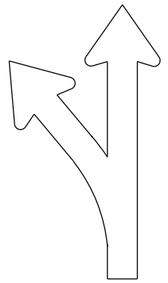
(A)

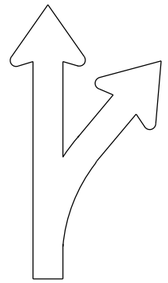


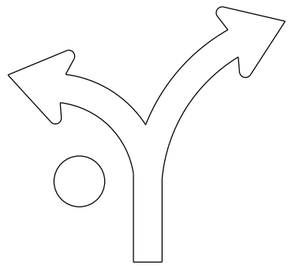
(B)

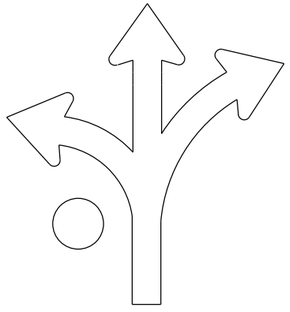

(C)

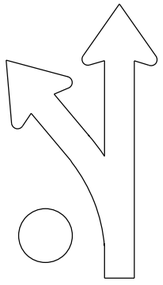

(D)


(E)


(F)

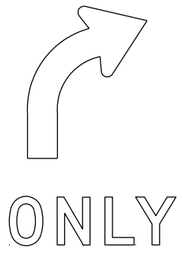

(G)


(H)

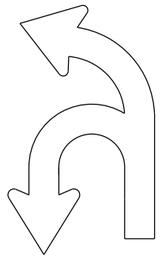

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

7

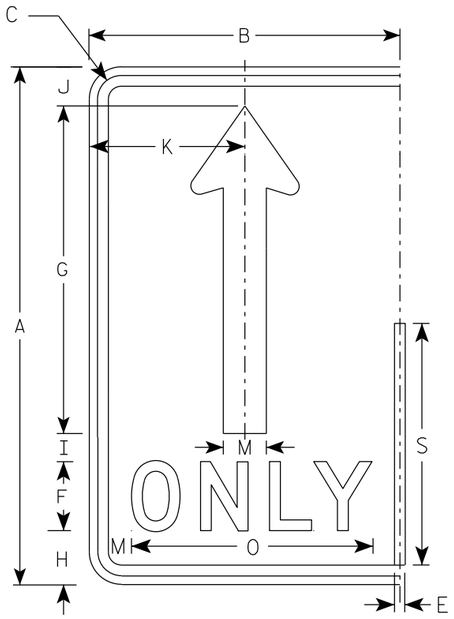
PROJECT NO:

SHEET NO: 343 E

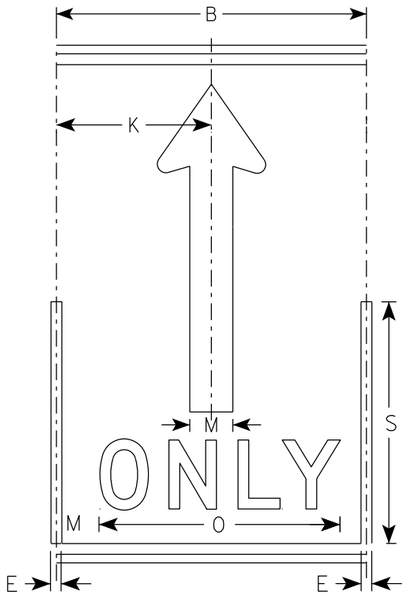
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn
PLOT DATE : 21-MAY 2019 4:37
PLOT BY : mscj9h
PLOT NAME :
WISDOT/CADDS SHEET 42

NOTES

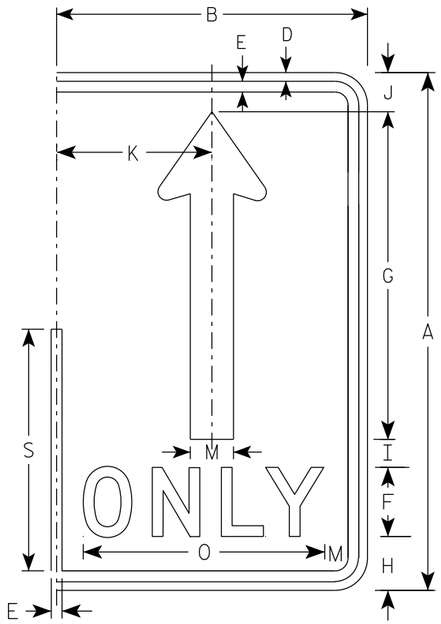
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



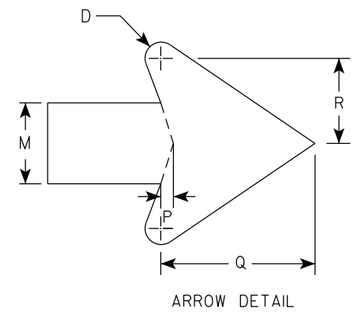
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

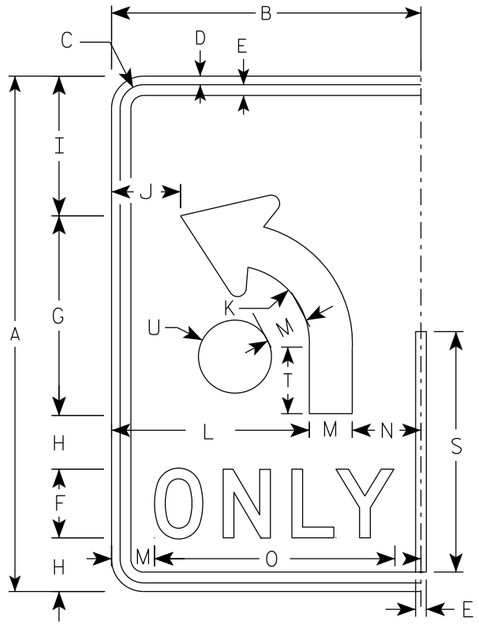
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

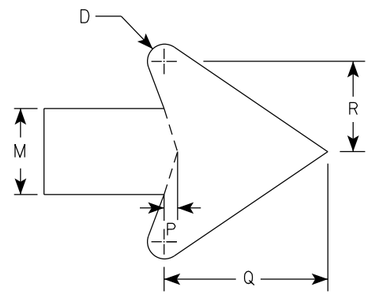
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 344 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

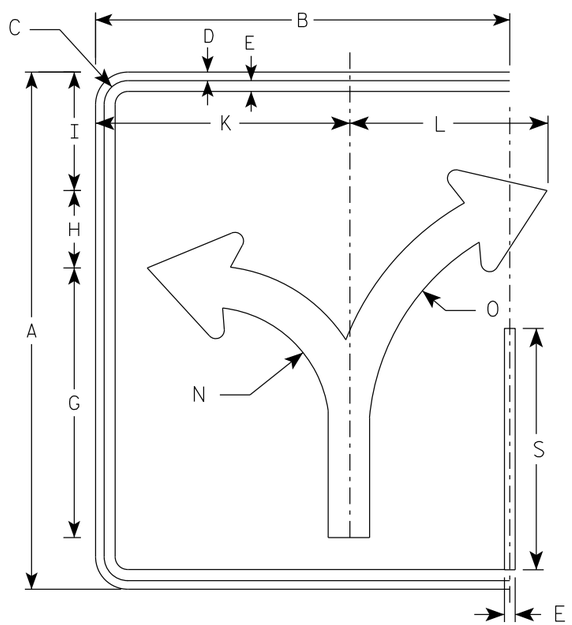
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

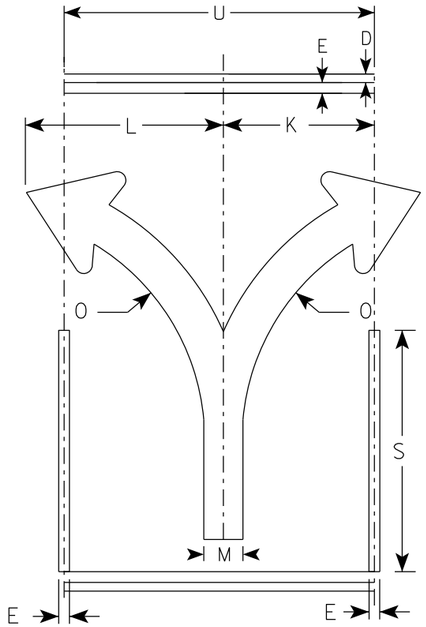
SHEET NO: 345 E

NOTES

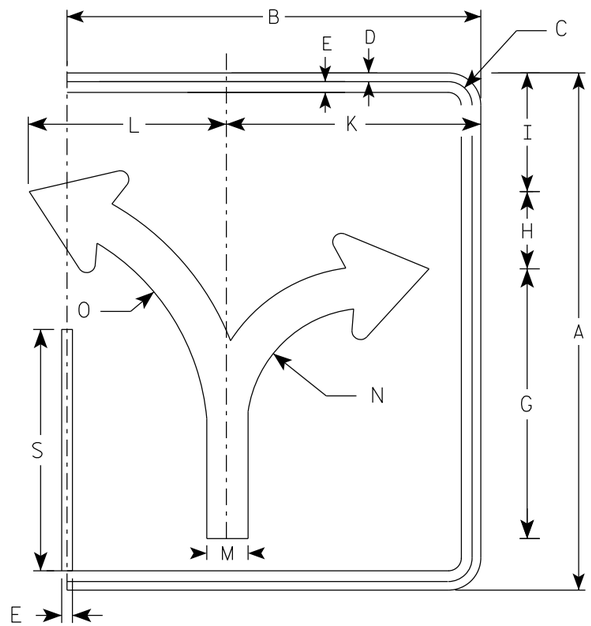
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



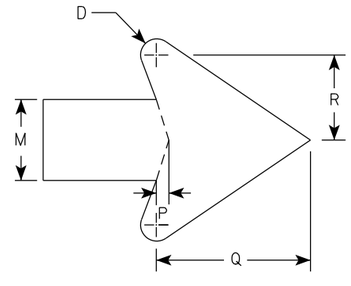
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

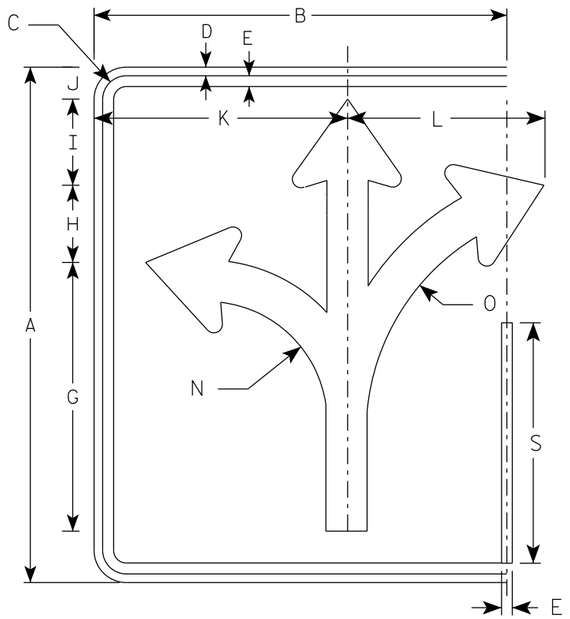
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

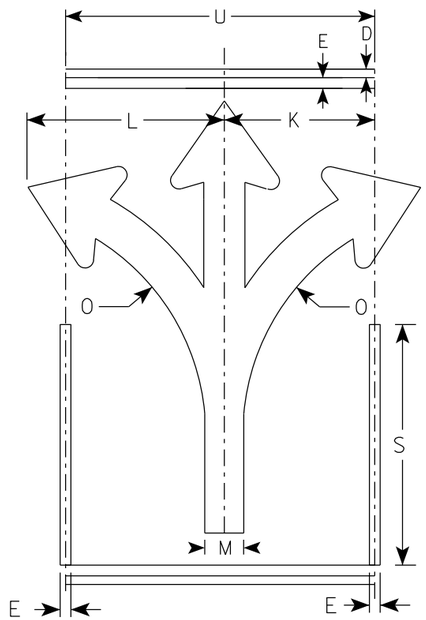
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 346 | E

NOTES

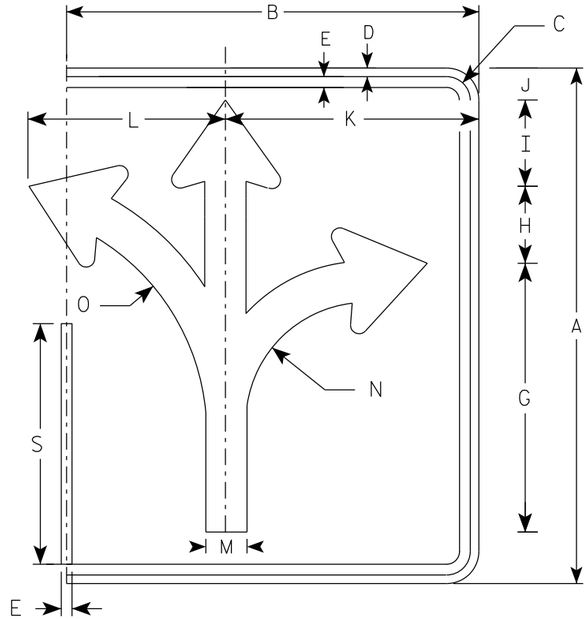
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



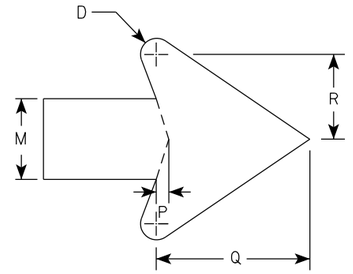
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

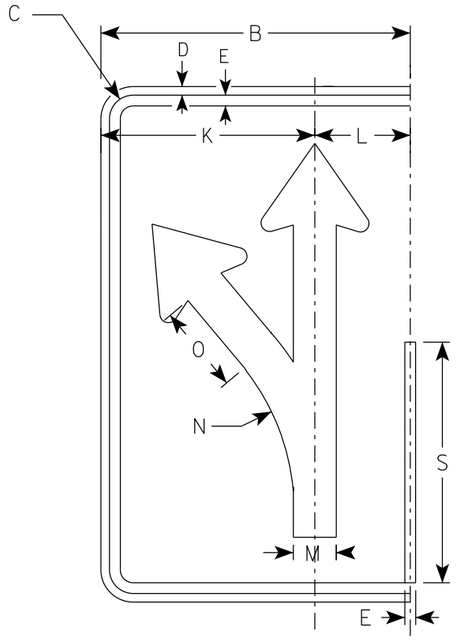
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

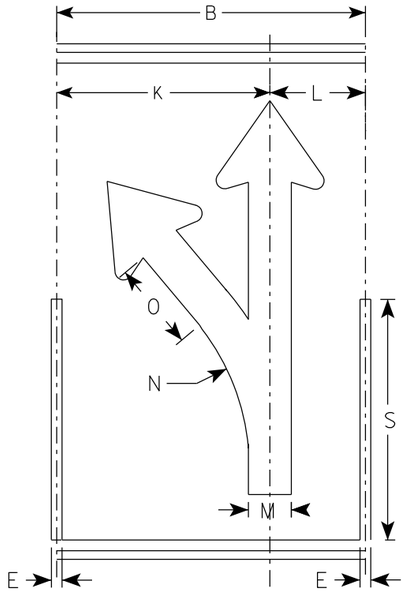
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 347 | E

NOTES

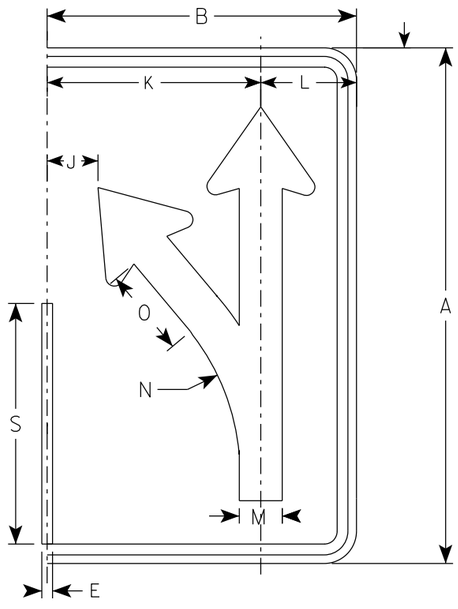
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



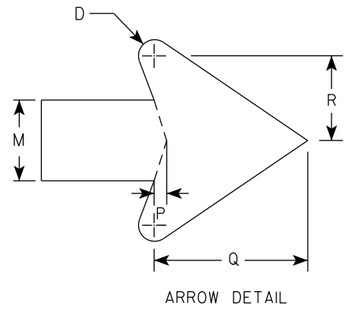
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

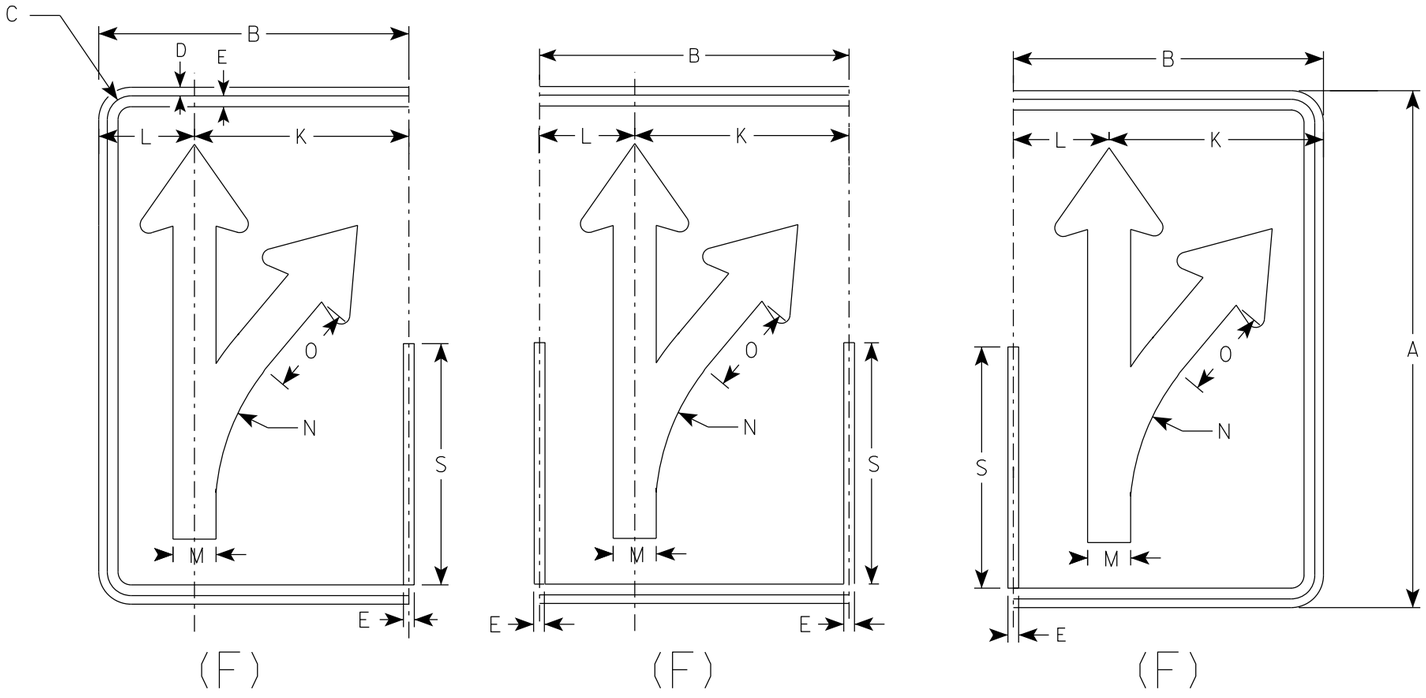
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

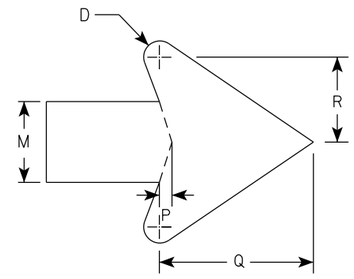
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 348 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(F) (F) (F)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

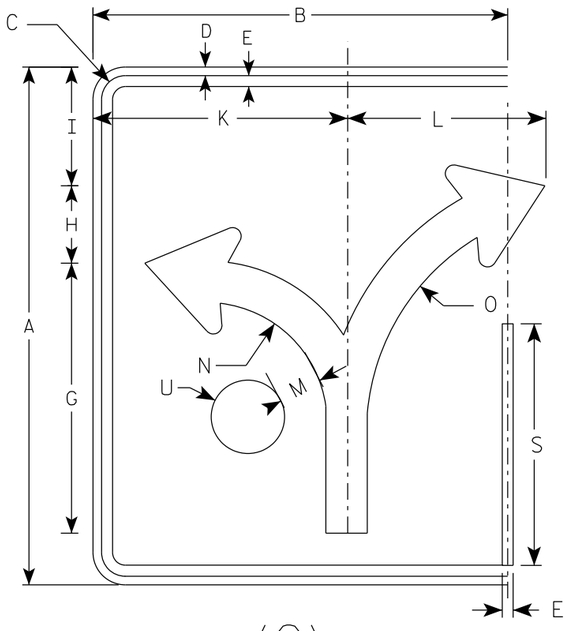
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

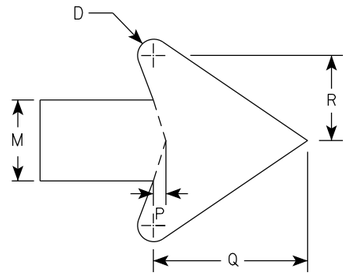
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 349 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

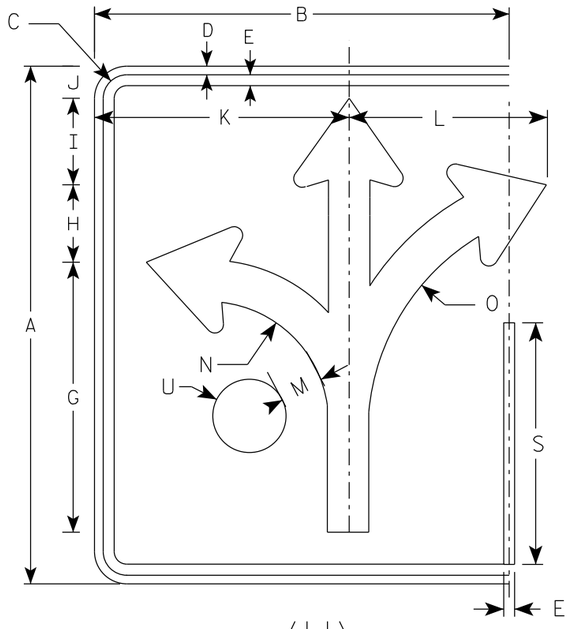
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 350	E

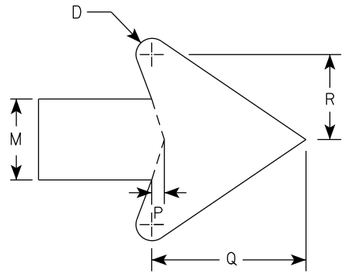
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

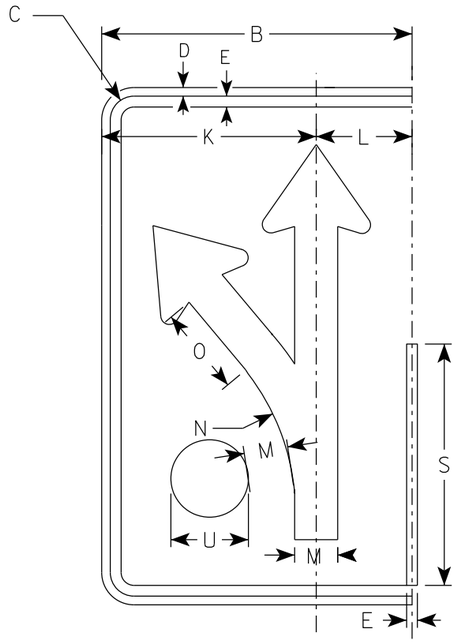
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

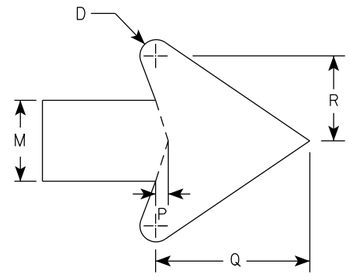
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 351	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

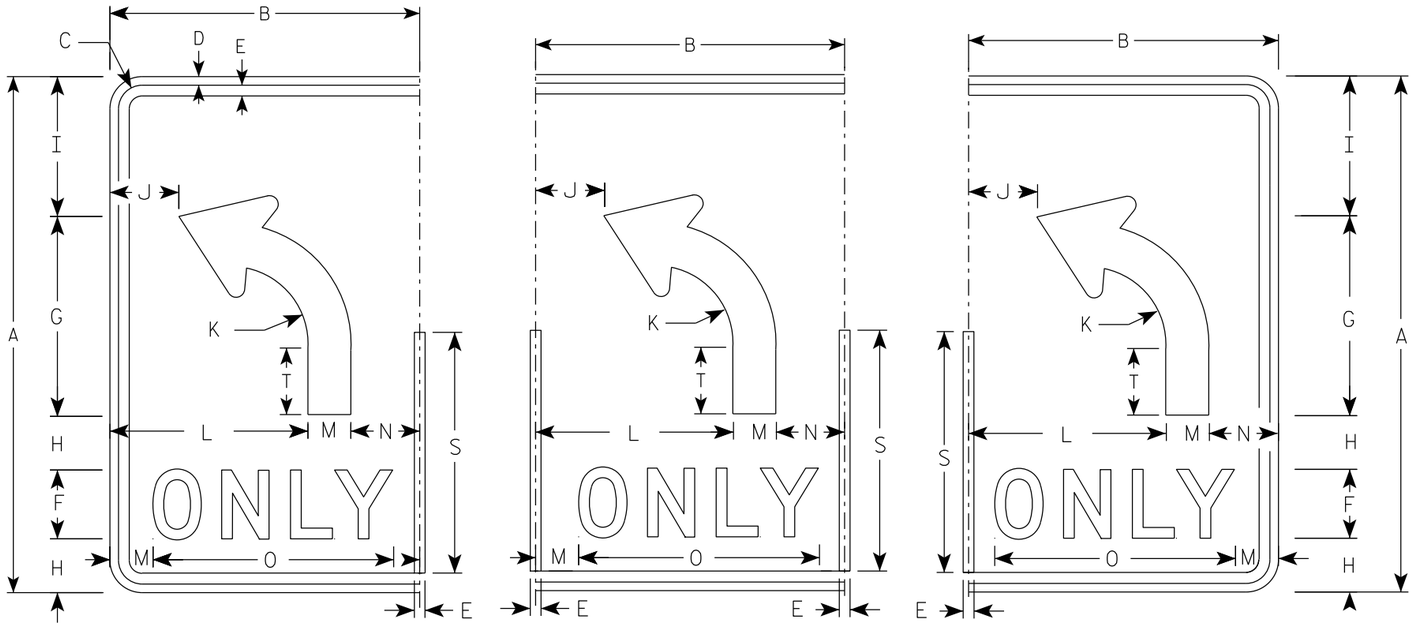
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

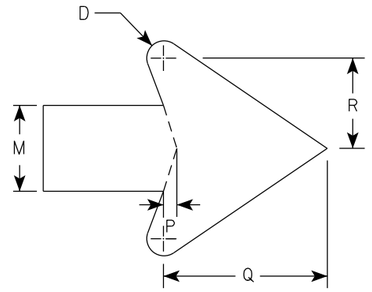
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 352 | E

NOTES

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



(L) (L) (L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

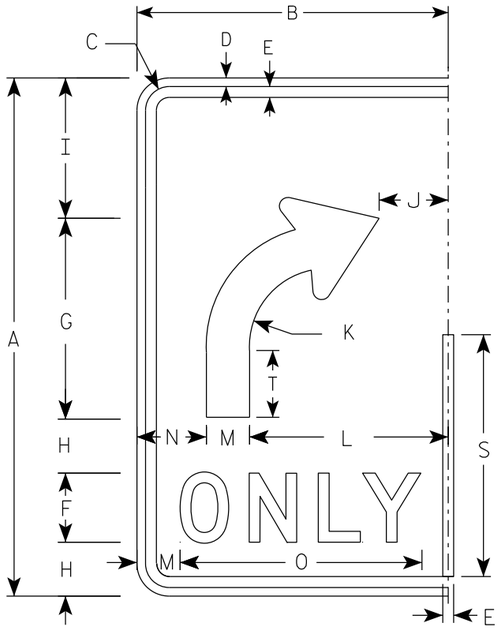
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

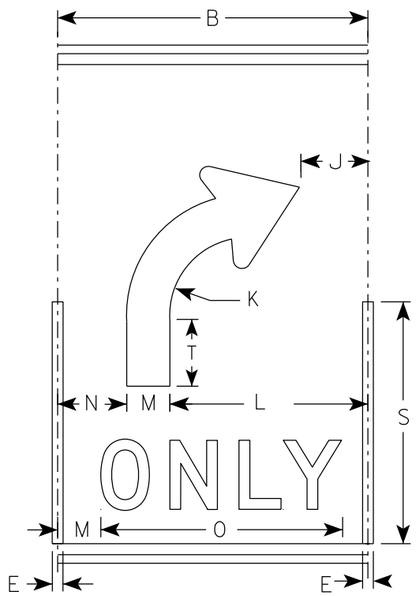
SHEET NO: 353 E

NOTES

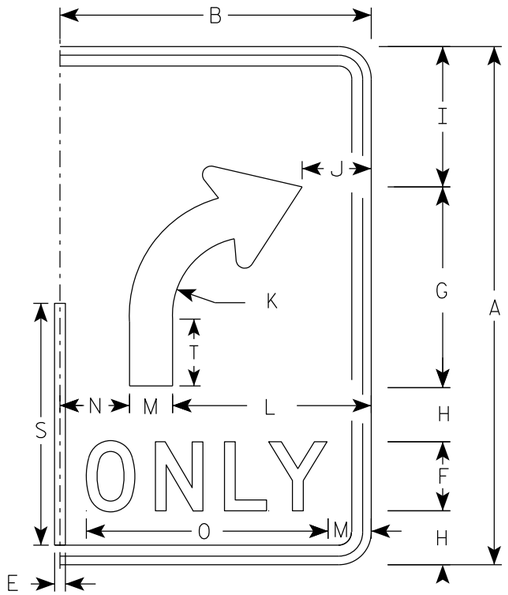
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



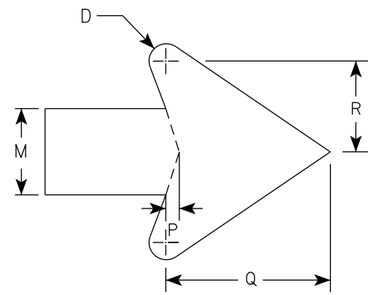
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

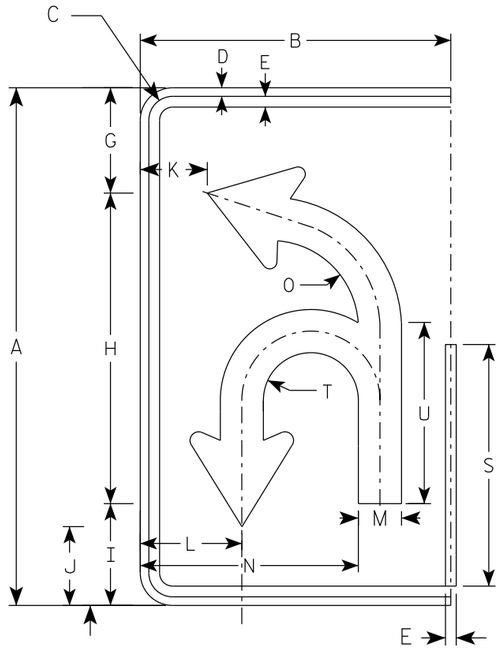
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

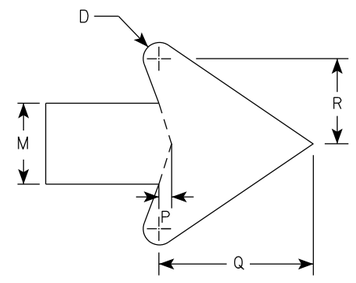
SHEET NO: 354 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

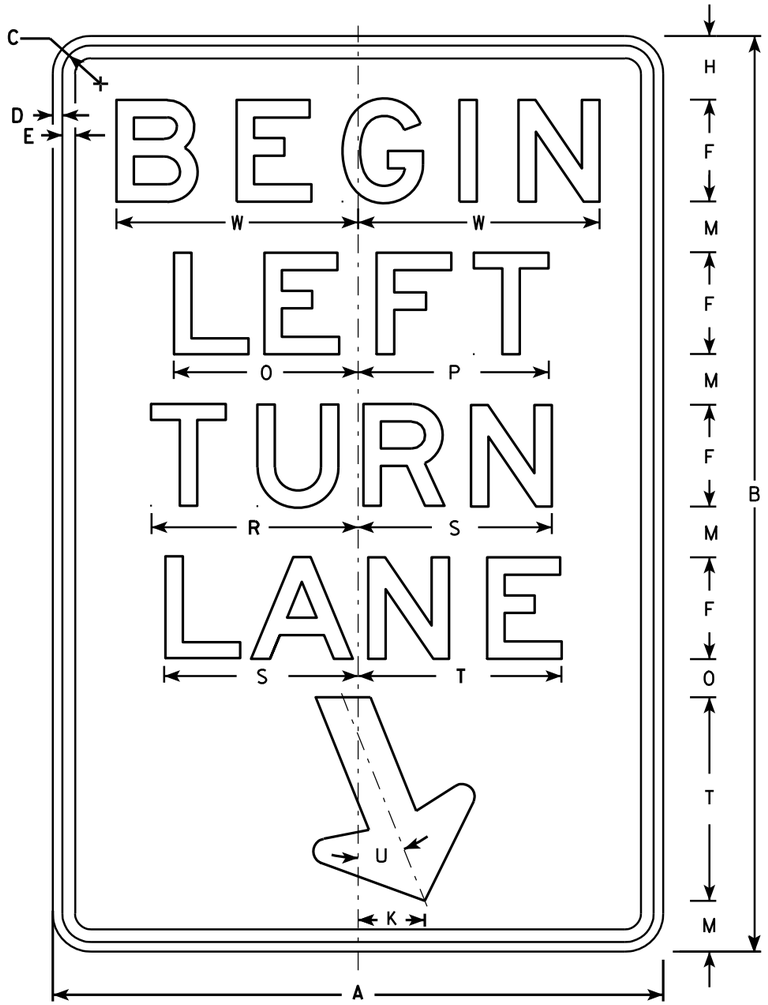
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

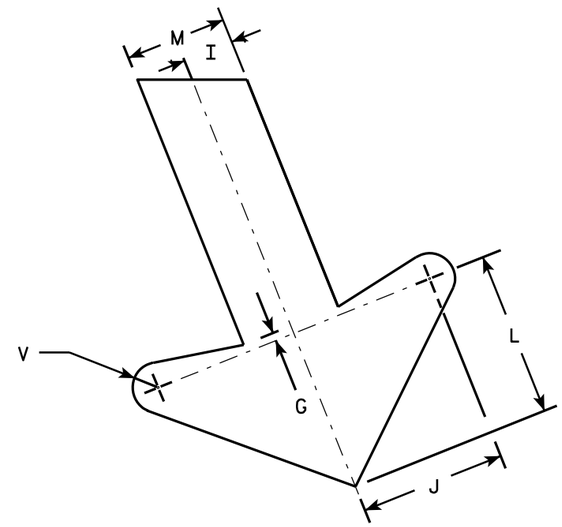
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 355 | E



R3-20L

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

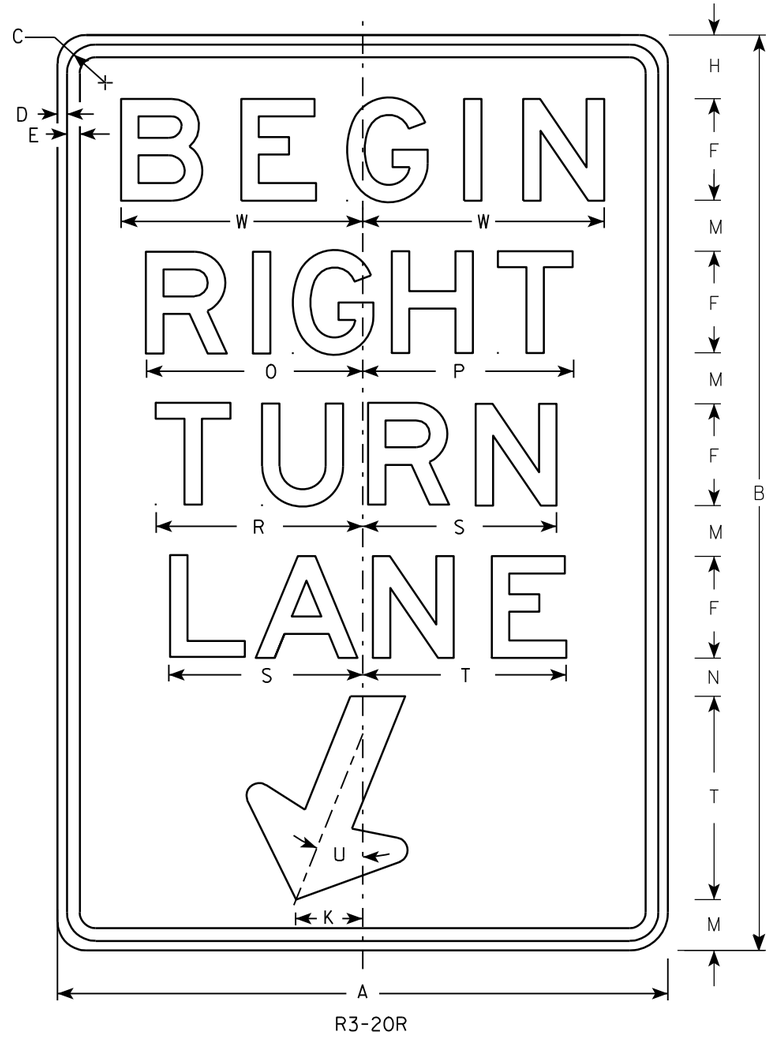
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

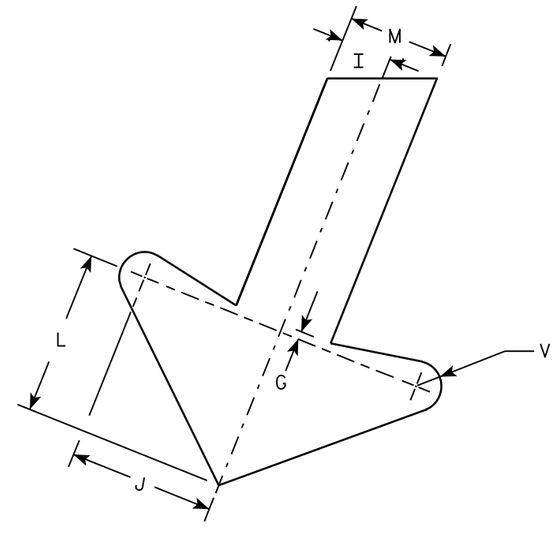
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 356 | E



R3-20R

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

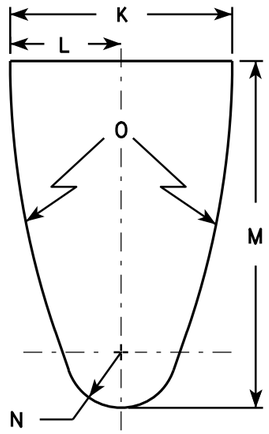
STANDARD SIGN
R3-20R

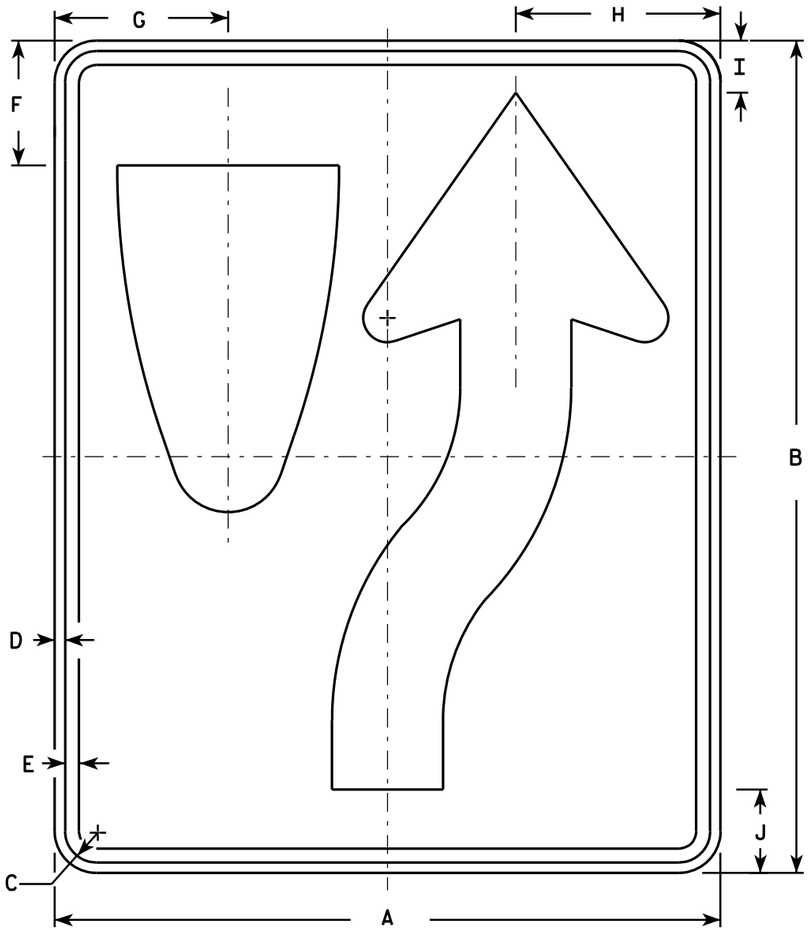
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 357 | E

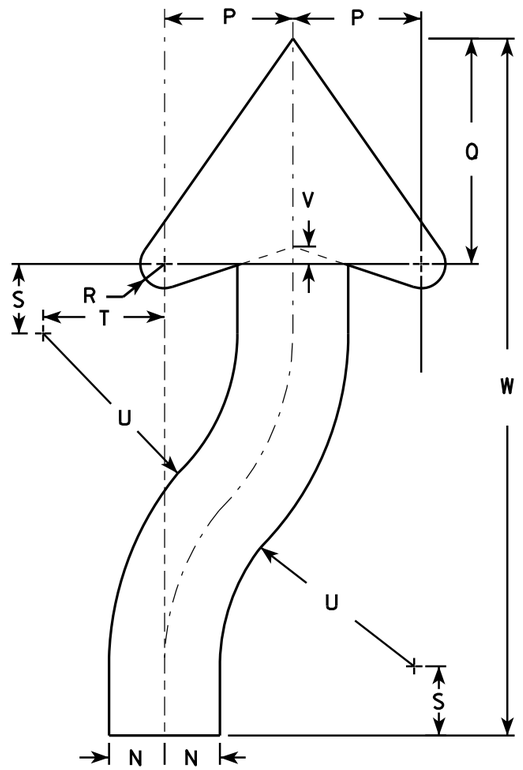




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

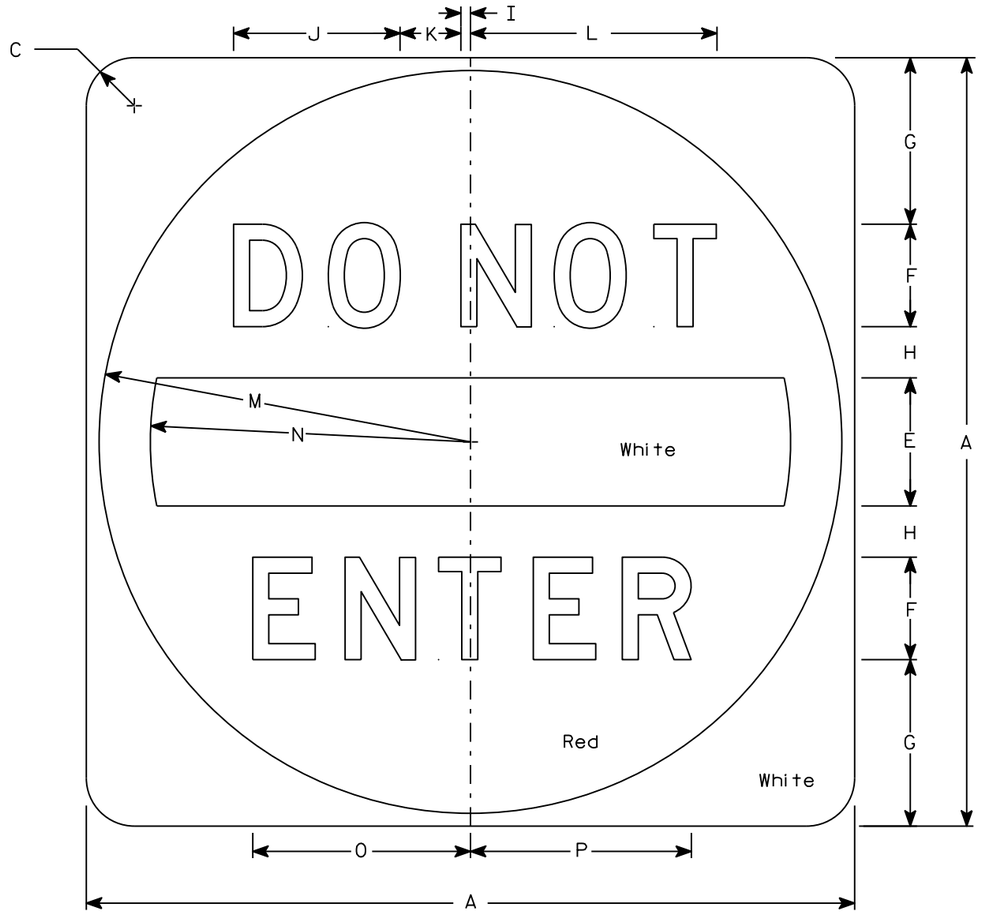
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 358	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

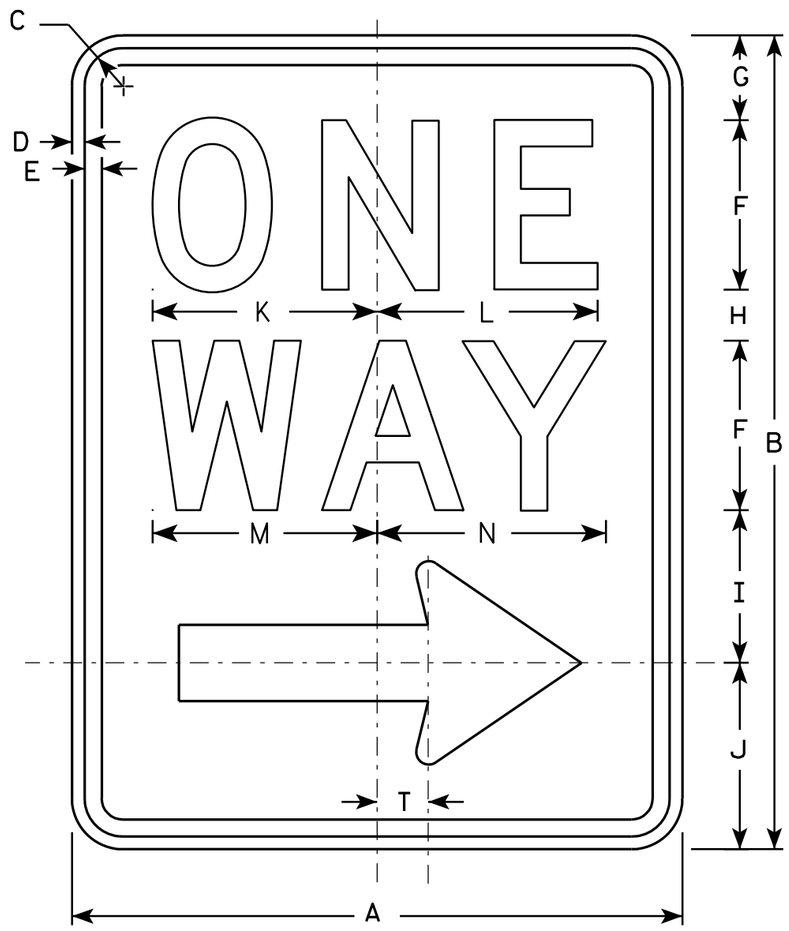
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

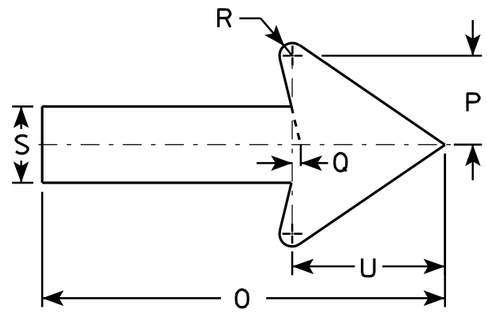
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 359 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

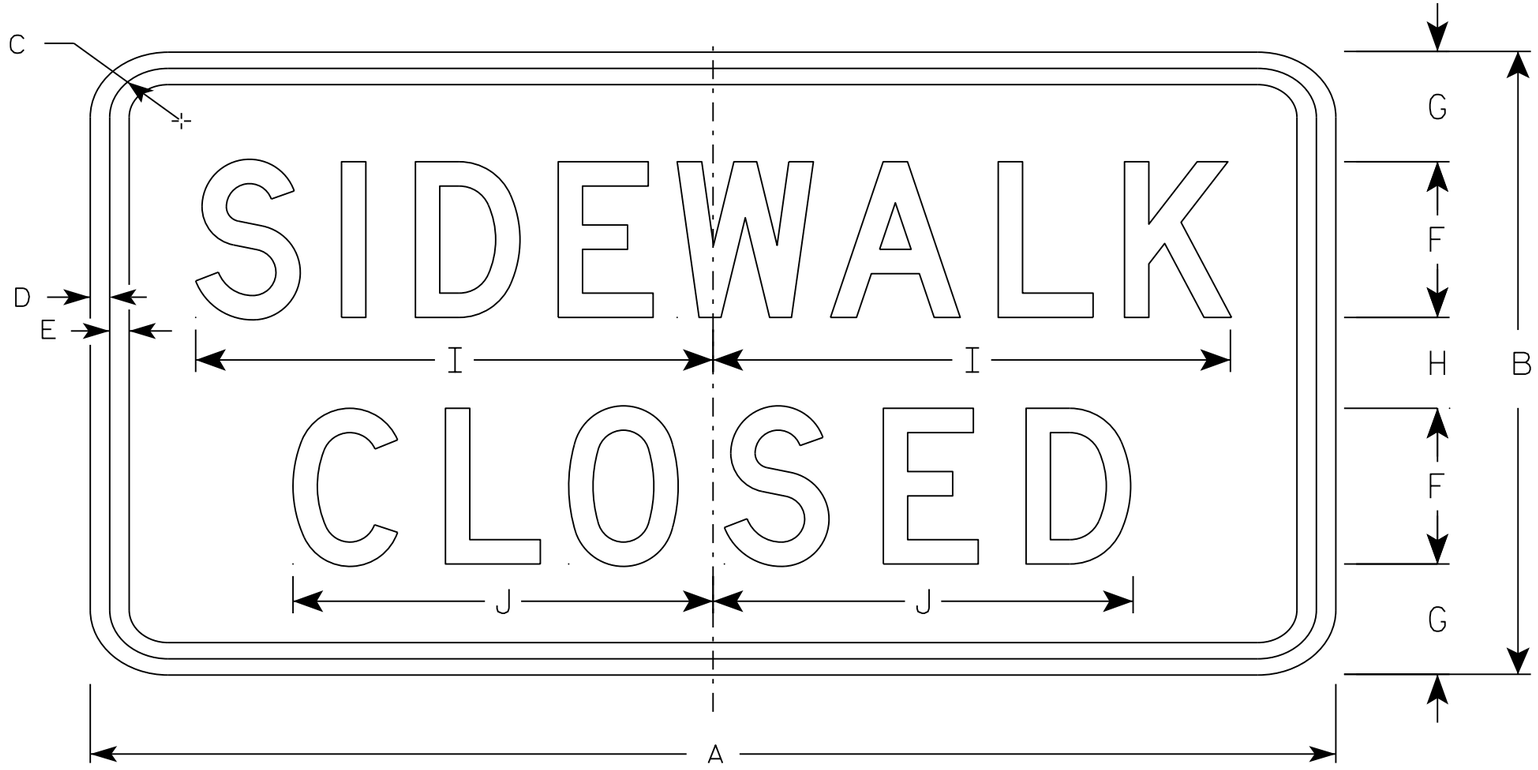
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 360 | E



R9-9

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

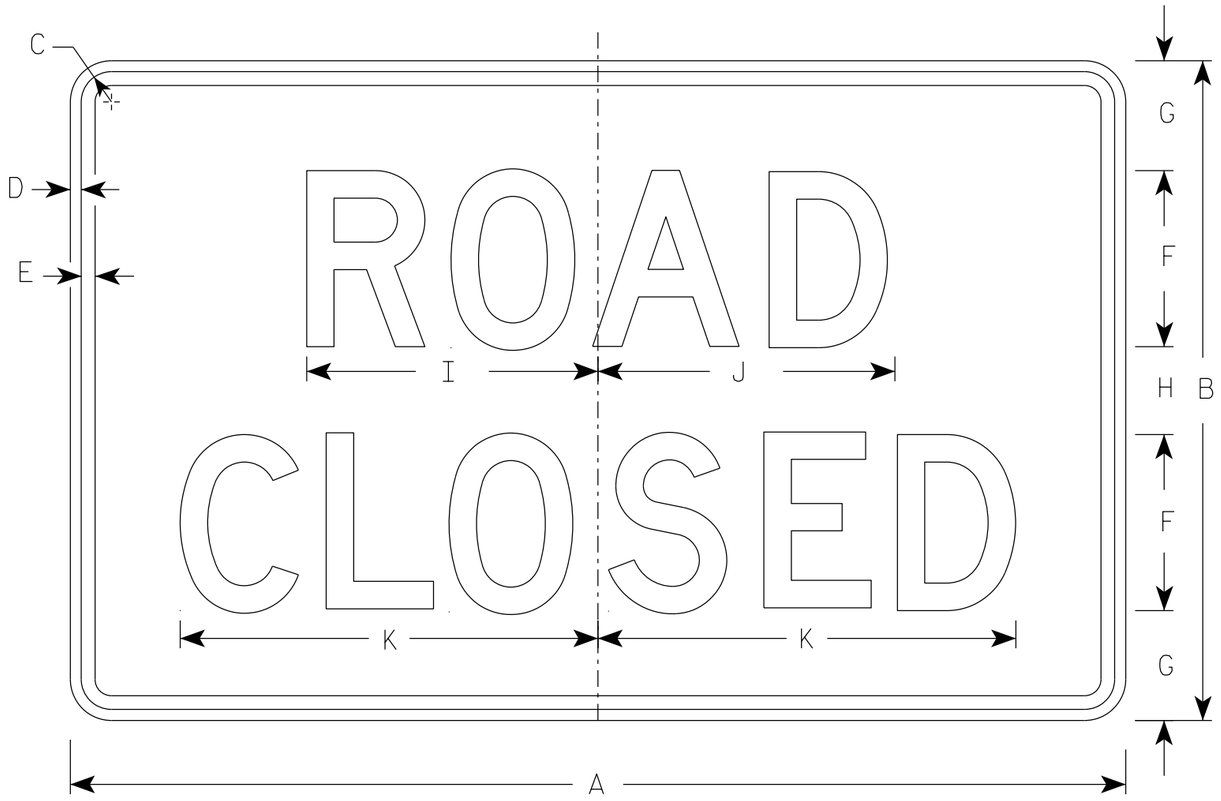
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 361 R9-9.6

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

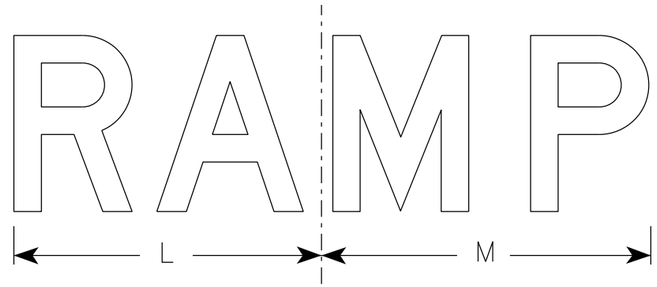
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



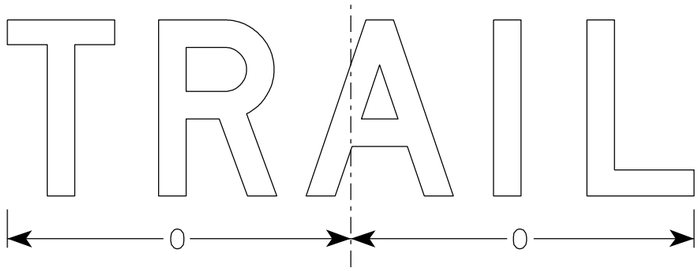
R11-2

NOTES

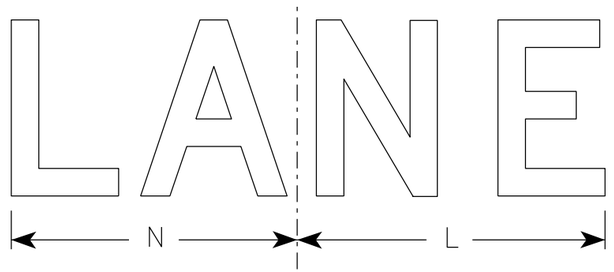
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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



R11-2R



R11-2T



R11-2L

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

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

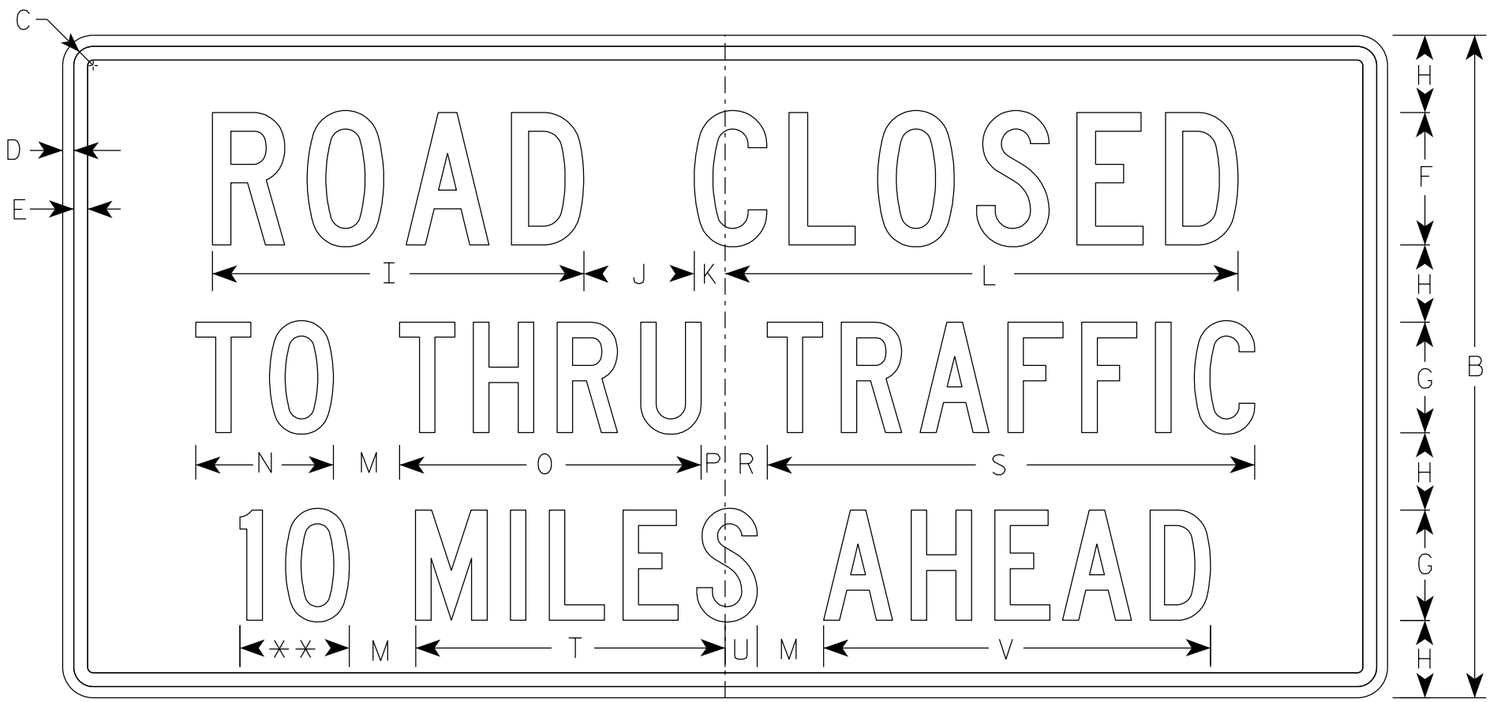
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 362 E

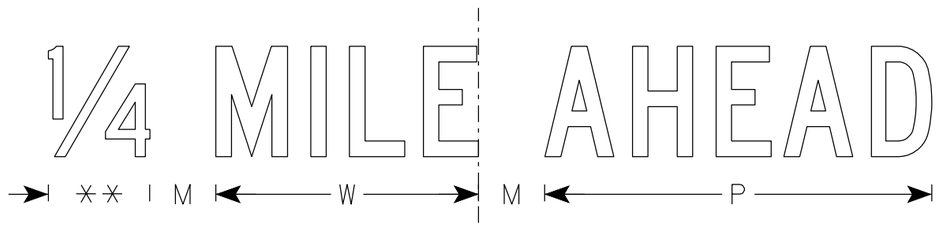
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



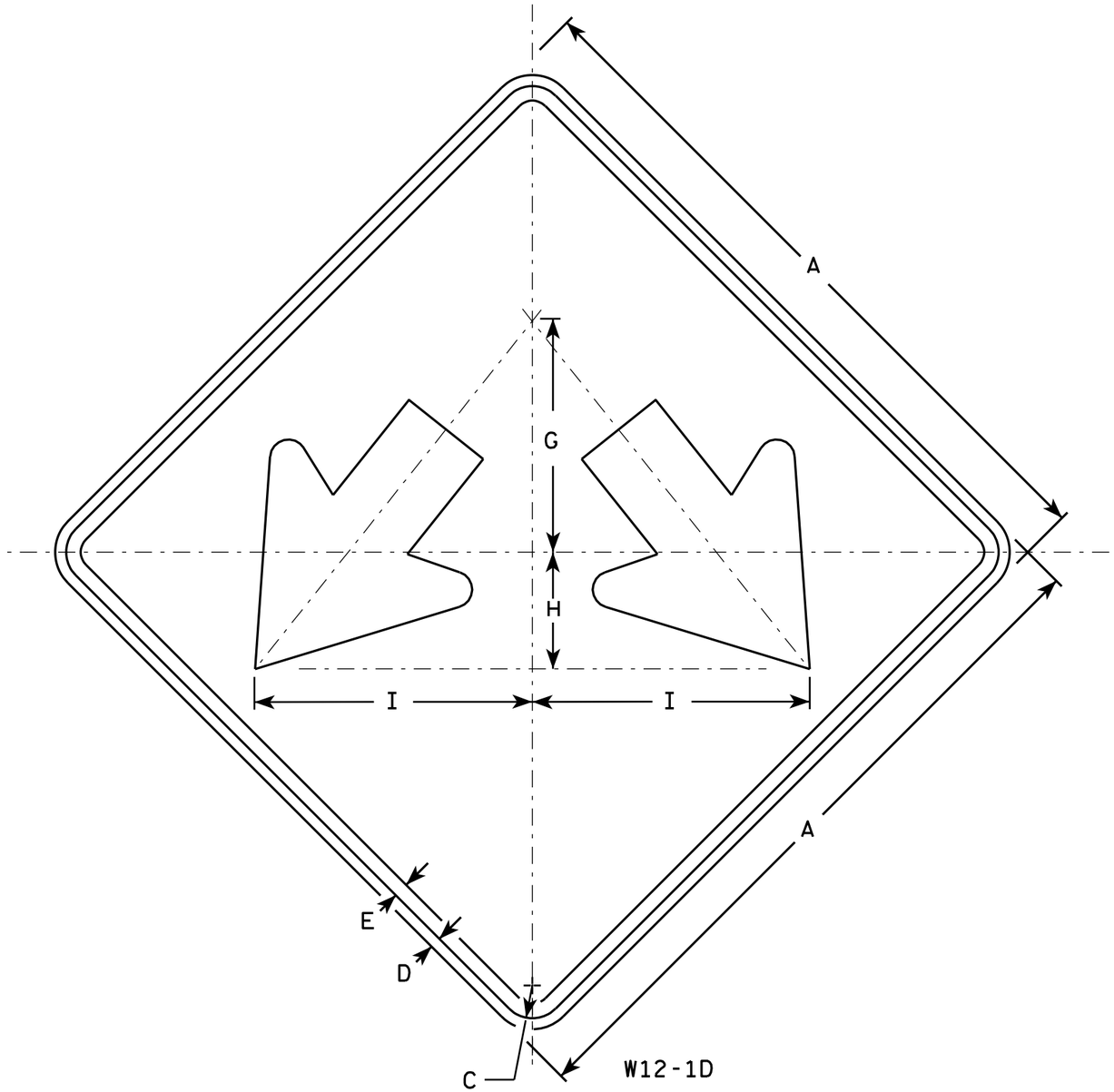
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

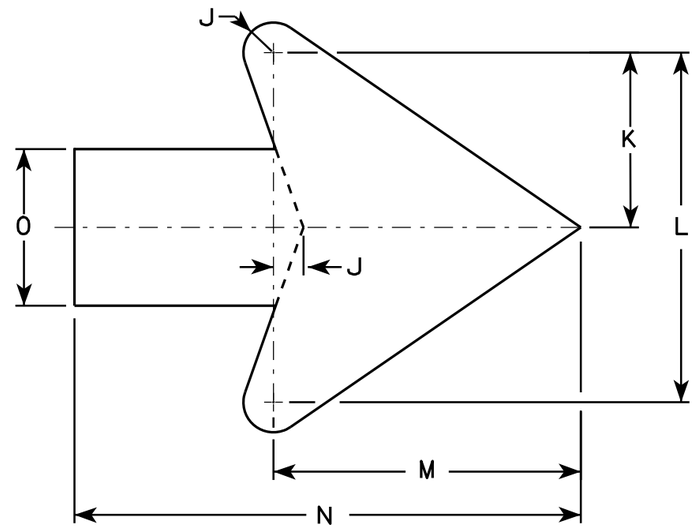
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 363	E



NOTES

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



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

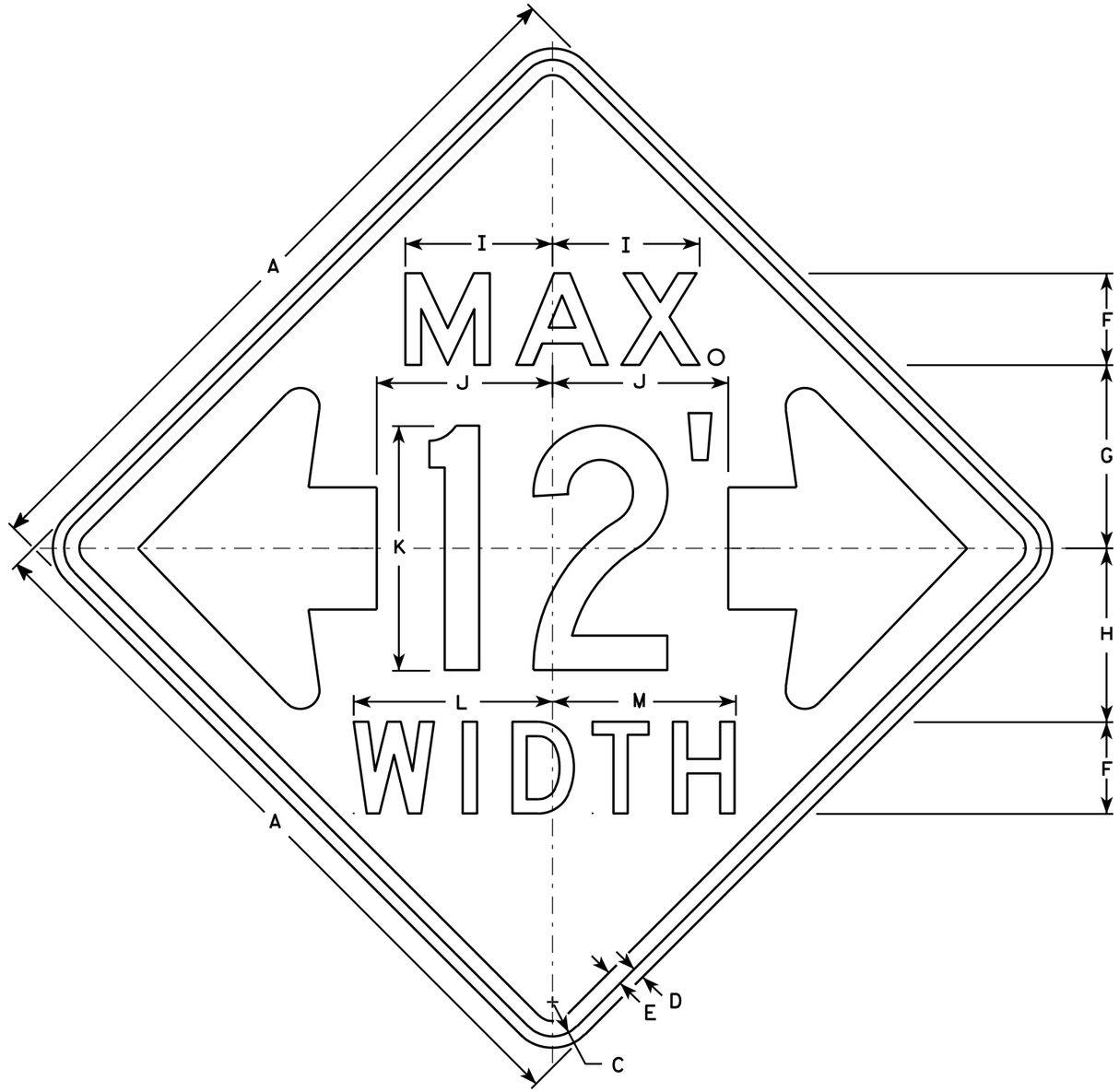
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

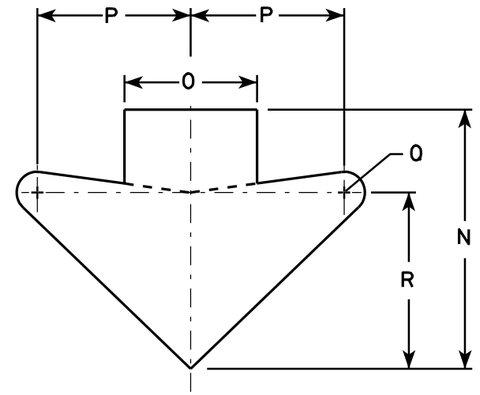
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 364	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

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

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 365 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000

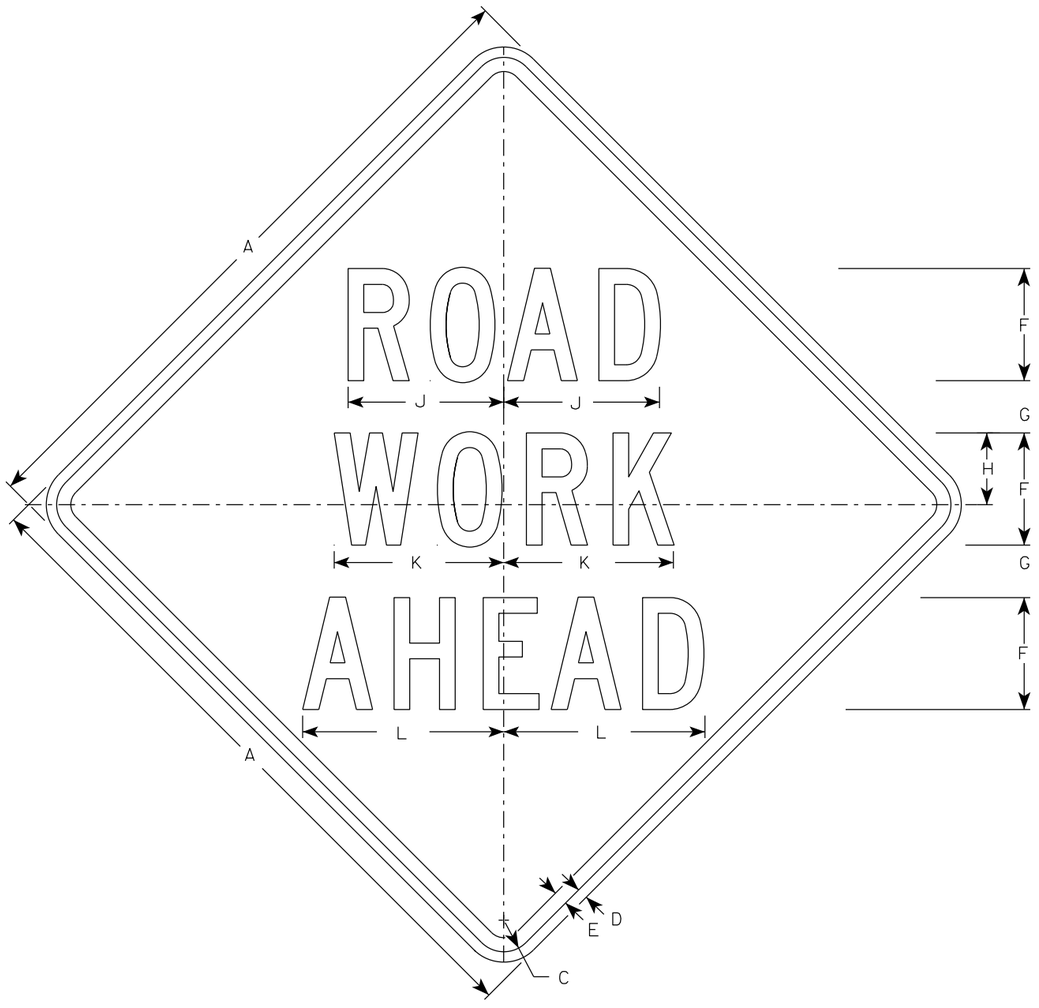
WISDOT/CADDS SHEET 42

7

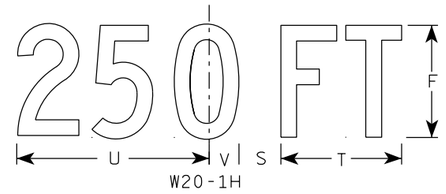
7

NOTES

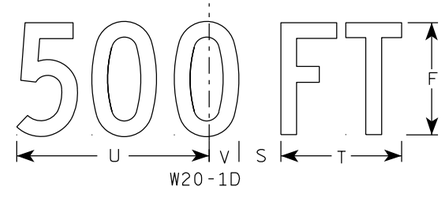
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A



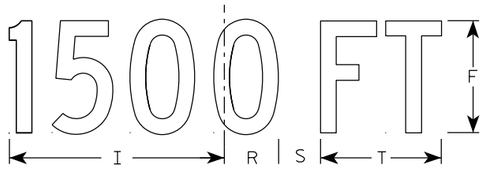
W20-1H



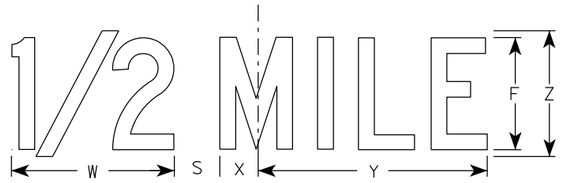
W20-1D



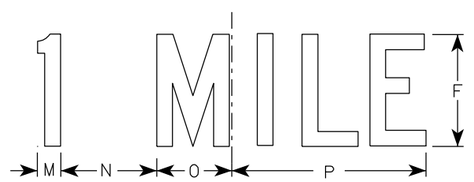
W20-1C



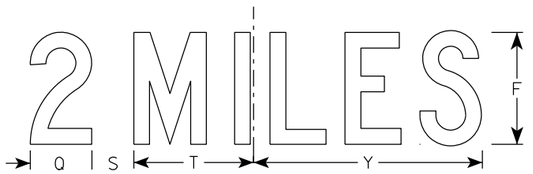
W20-1B



W20-1G



W20-1F



W20-1E

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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

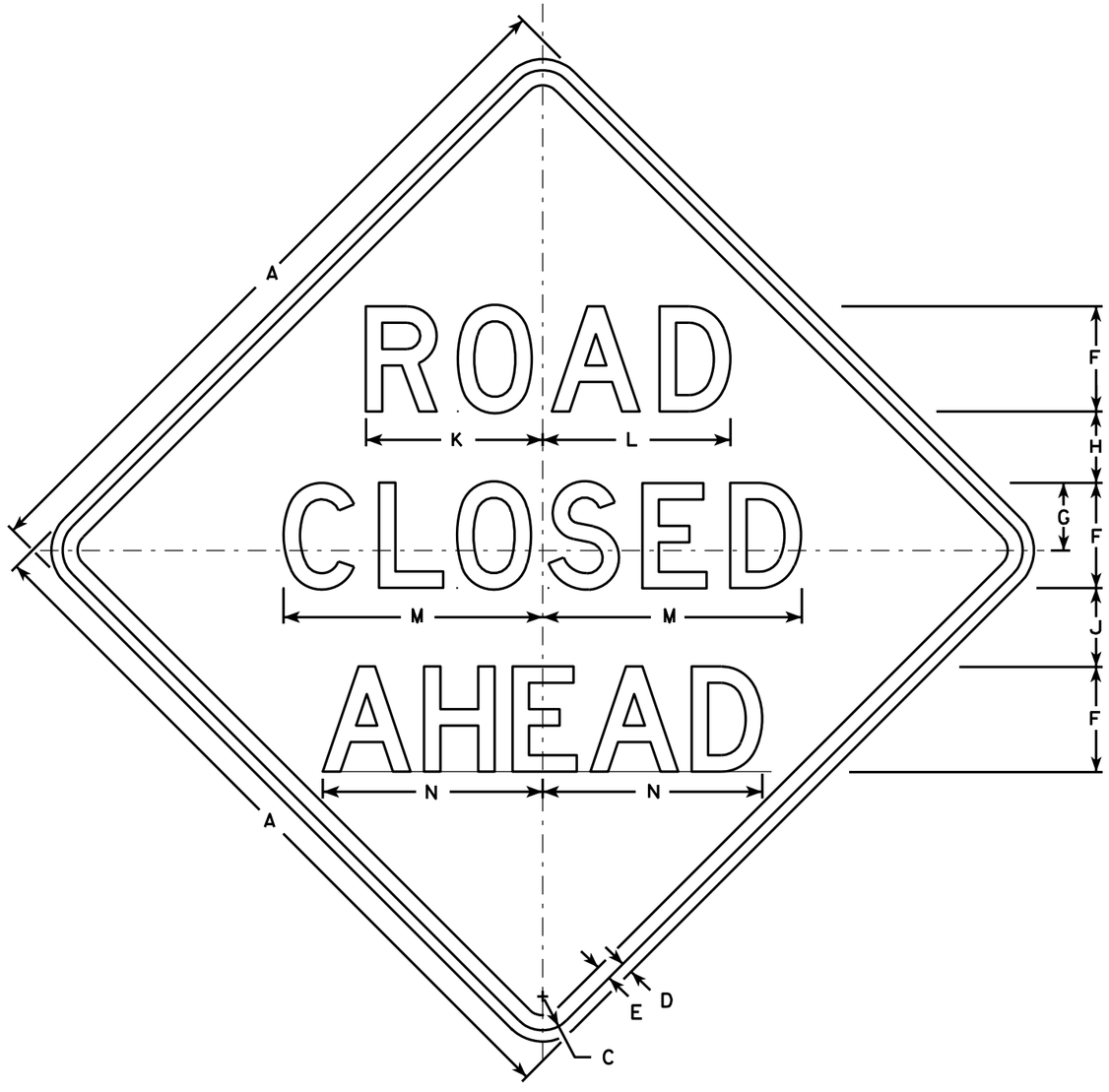
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

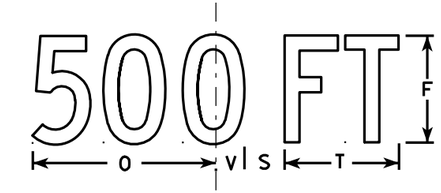
WISDOT/CADDS SHEET 42

7

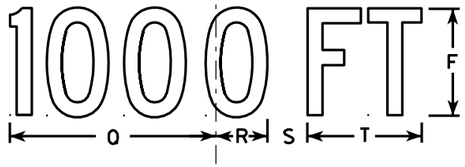
7



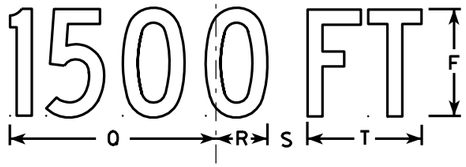
W20-3A



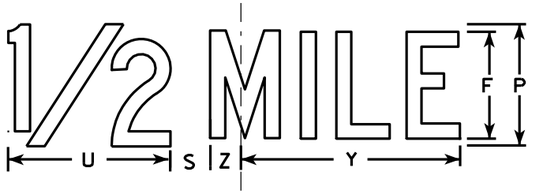
W20-3D



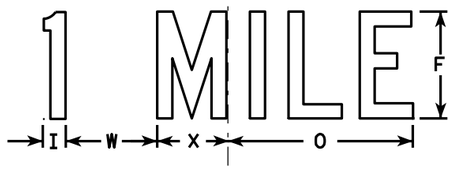
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 367 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

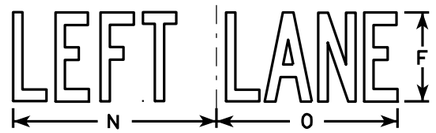
WISDOT/CADDS SHEET 42

7

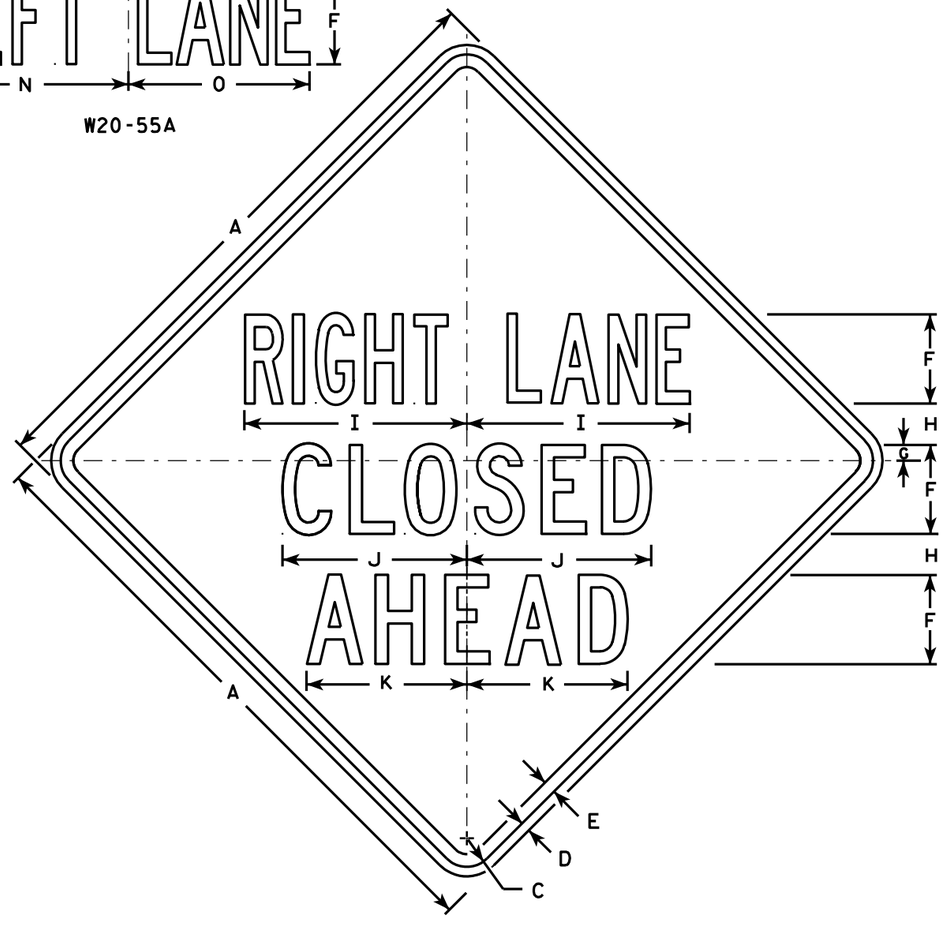
7



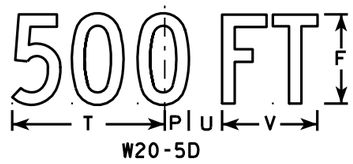
W20-56A



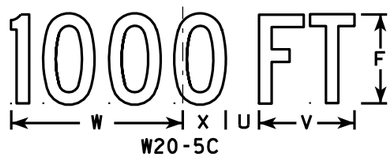
W20-55A



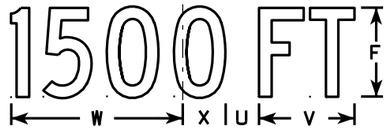
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

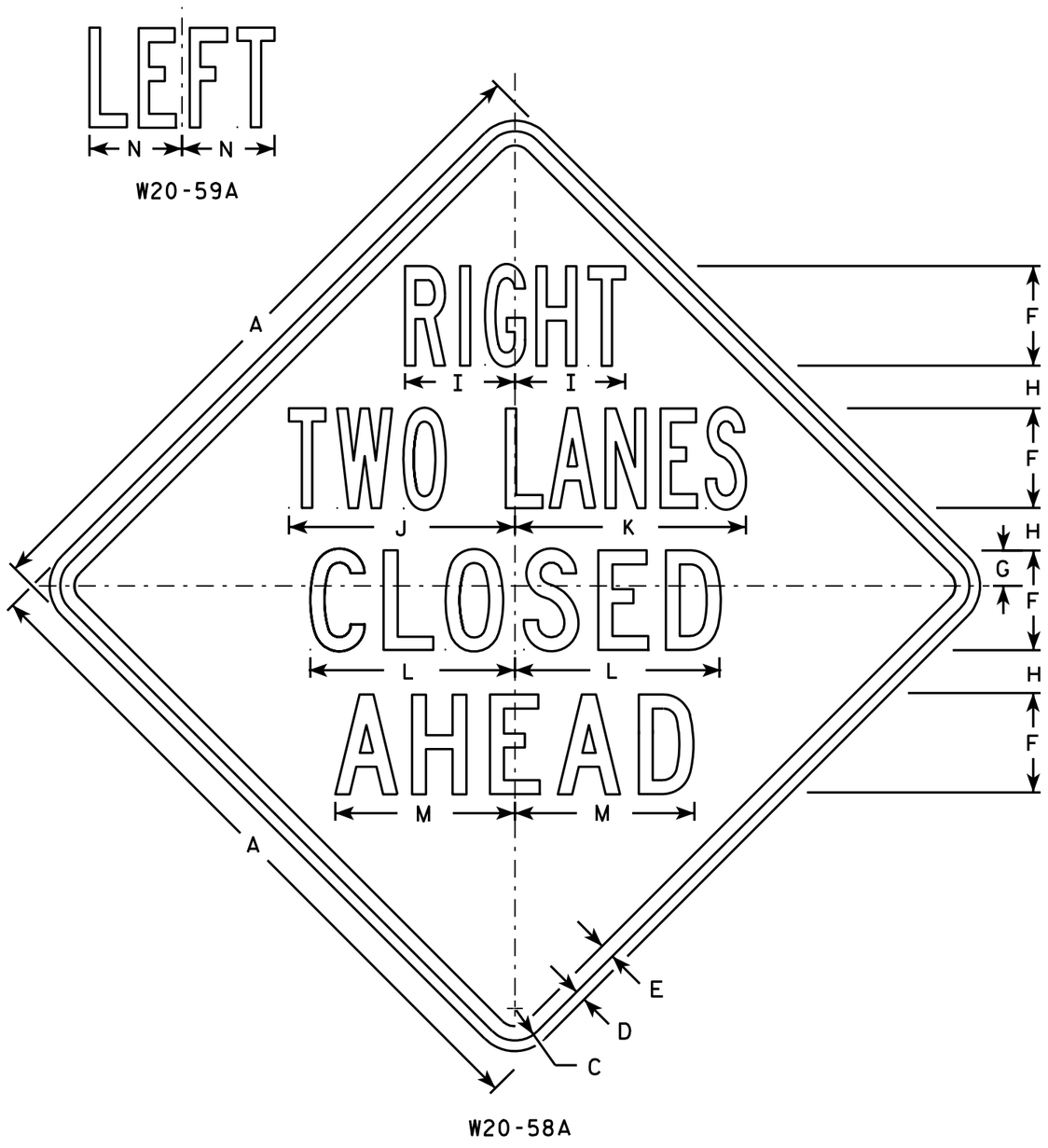
APPROVED Matthew R Rauch
for State Traffic Engineer

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

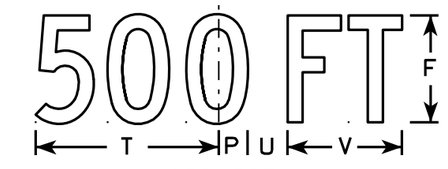
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 368 | E

7

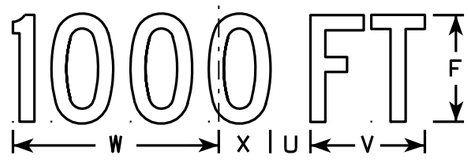
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



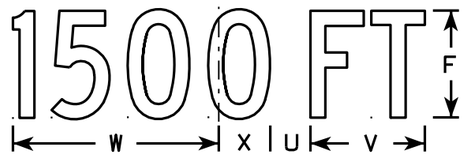
W20-58A



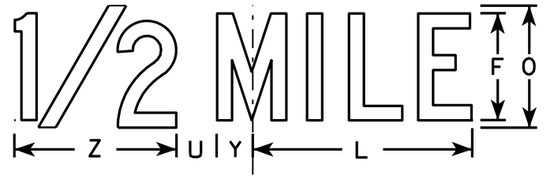
W20-58D



W20-58C



W20-58B



W20-58G



W20-58F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 & 2 Series B.
   Lines 3 & 4 Series C.

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

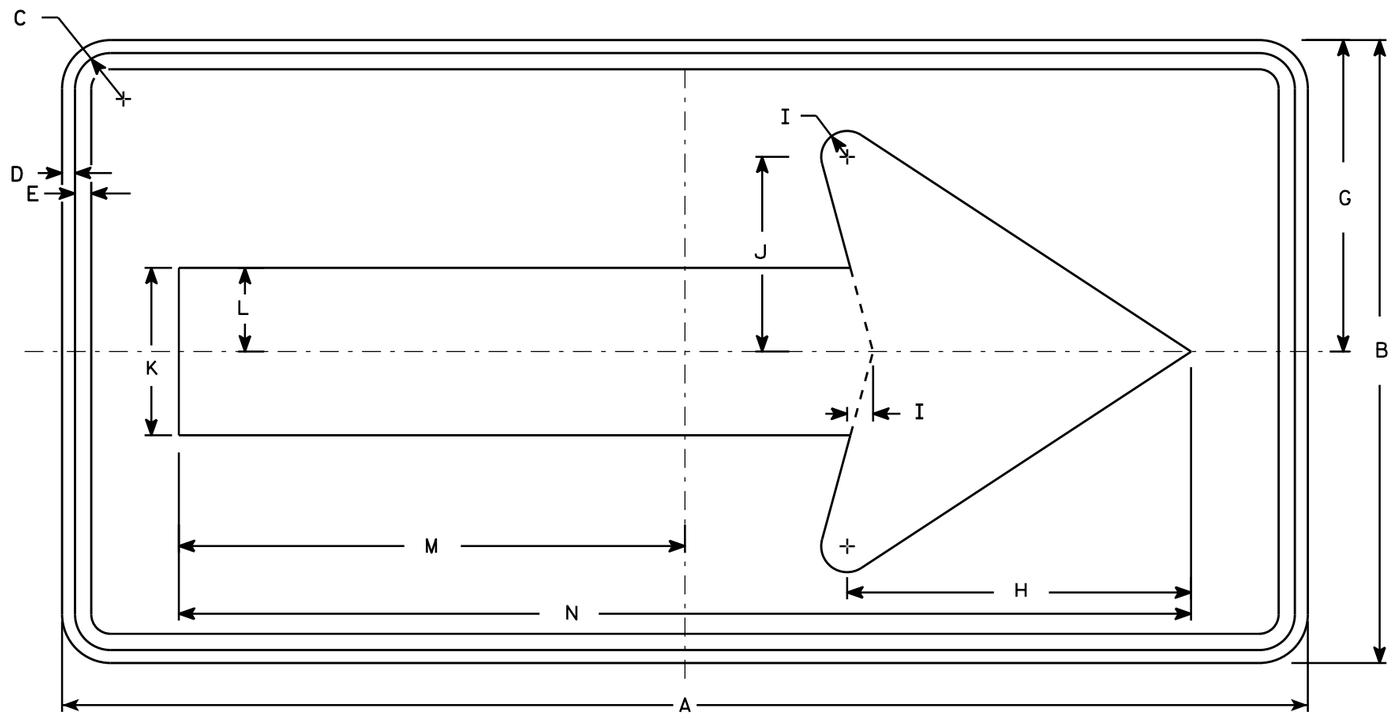
STANDARD SIGN
W20-58A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-58.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 369	E



W01-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

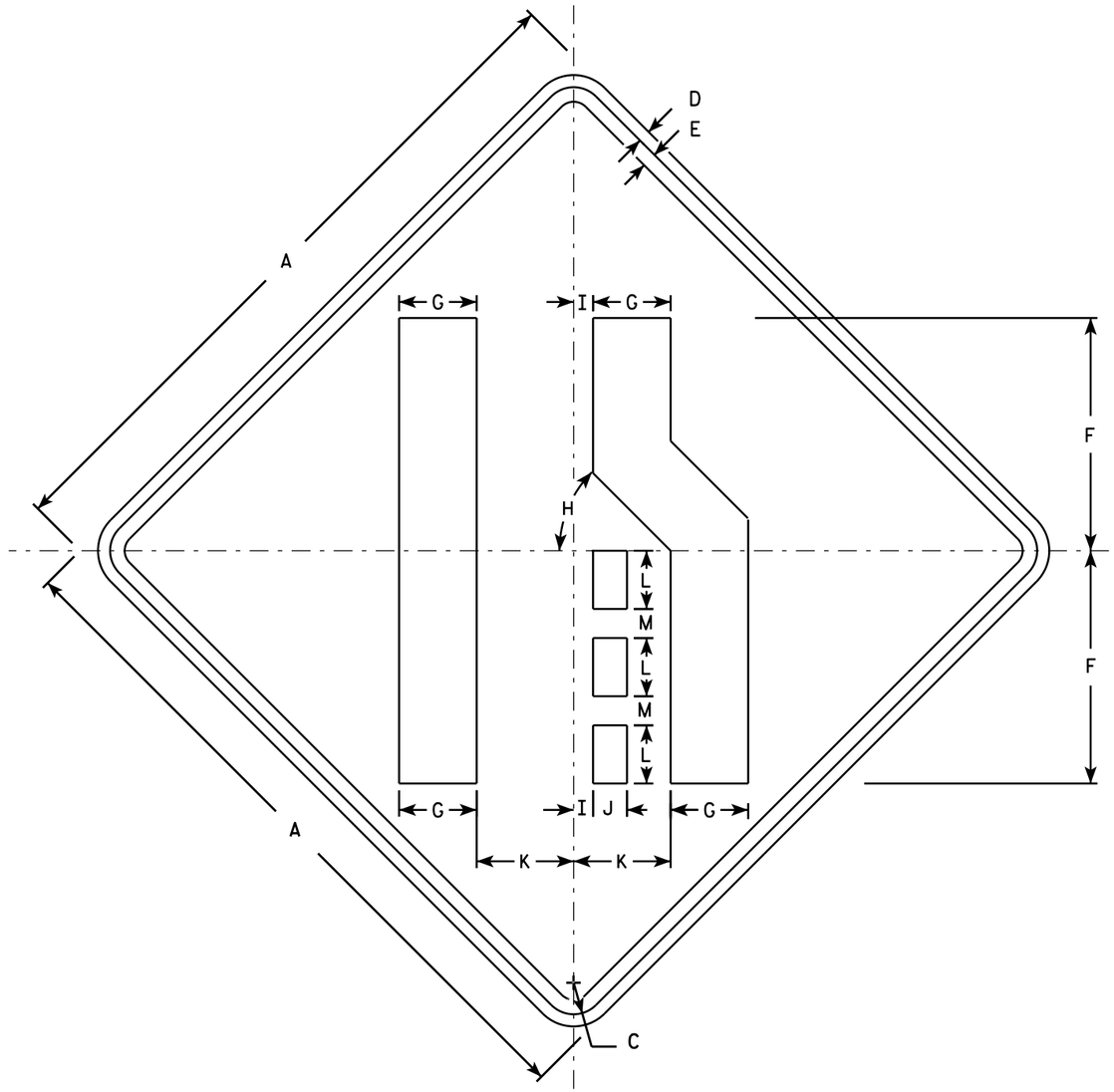
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

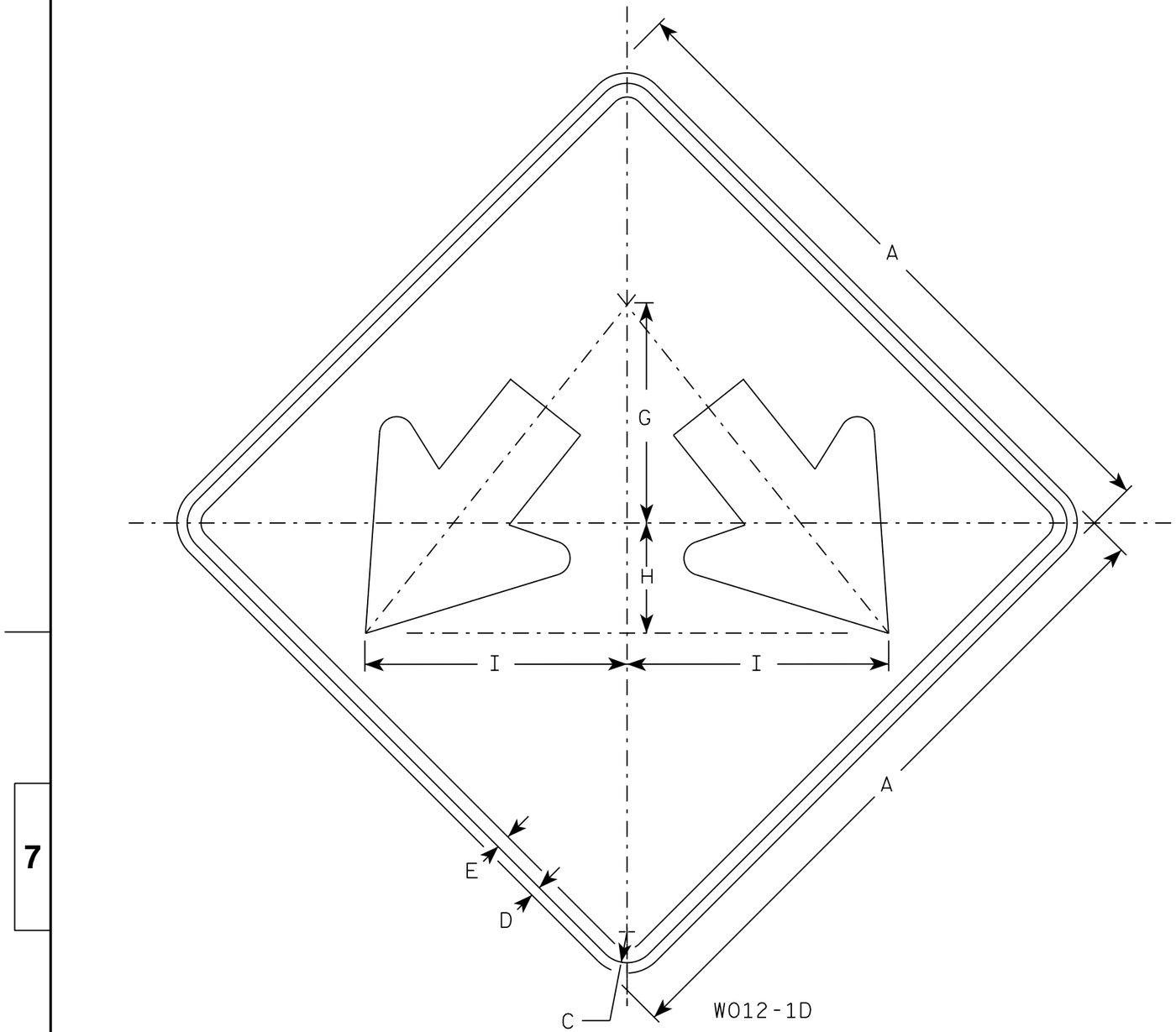
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 371 W04-2.1

PROJECT NO:

SHEET NO: E

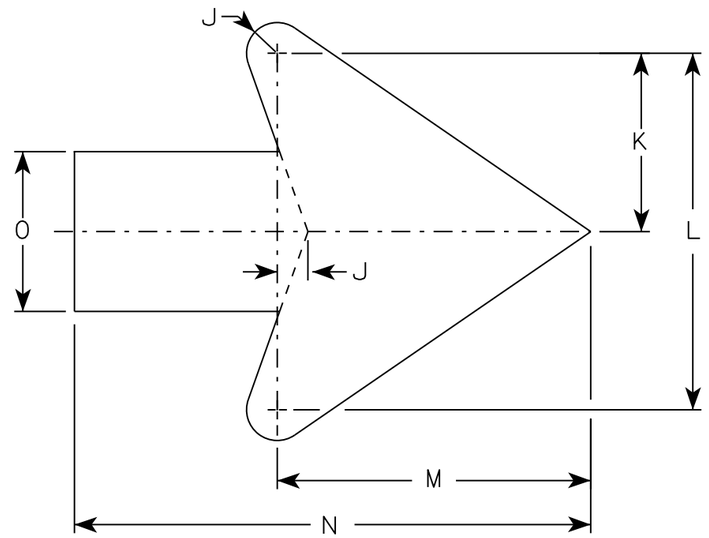
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W042.DGN PLOT DATE : 20-NOV-2013 11:43 PLOT BY : mscsja



W012-1D

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

STANDARD SIGN
W012-1D

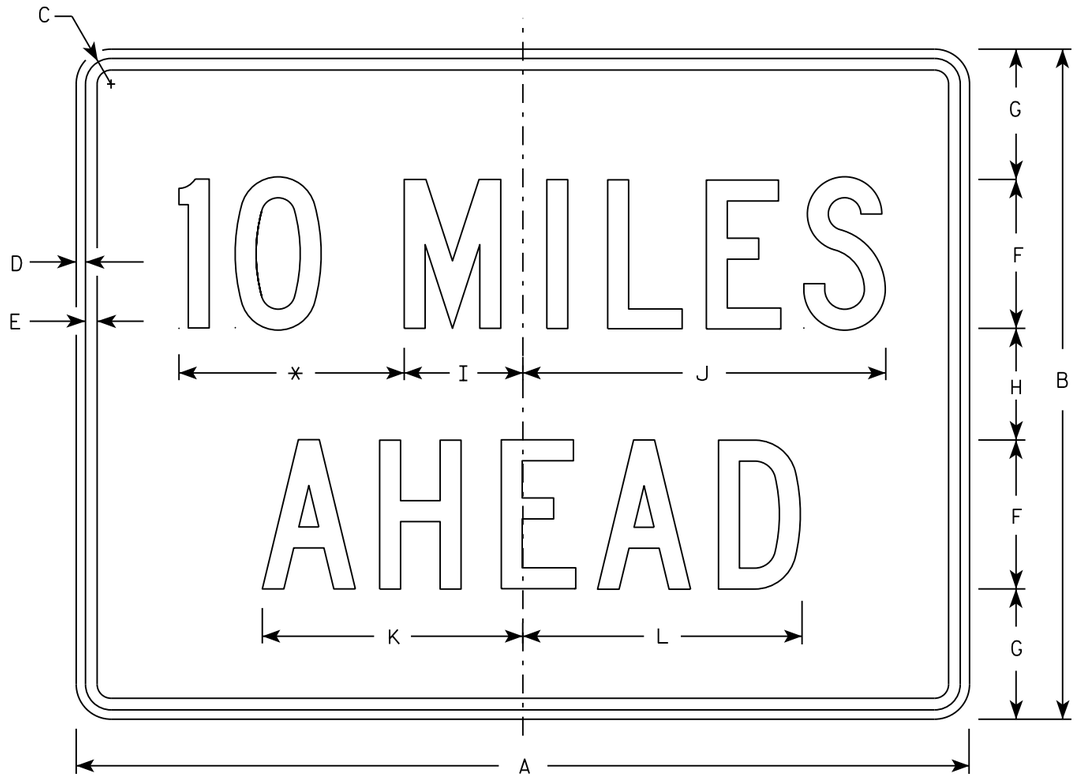
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

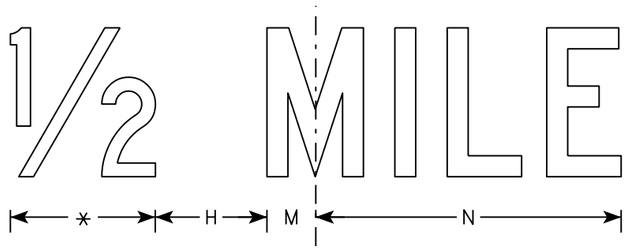
DATE 7/28/16 PLATE NO W012-1D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0121D.DGN PLOT DATE : 11-AUG-2016 11:28 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.621375:1.000000



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 373	E

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WKE

SEPTEMBER 2022

PROJECT ID: 3340-09-70

COUNTY: KENOSHA

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
~~Section No.~~	~~5~~	~~Plan and Profile~~
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
~~Section No.~~	~~9~~	~~Computer Earthwork Data~~
Section No.	9	Cross Sections

TOTAL SHEETS = 60



N

DESIGN DESIGNATION		STH 31
A.A.D.T. (2024)	=	35,200
A.A.D.T. (2044)	=	37,400
D.H.V.	=	-
D.D.	=	59/41
T.	=	7.5%
DESIGN SPEED (MPH)	=	50
ESALS	=	-

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3340-09-70	———	———

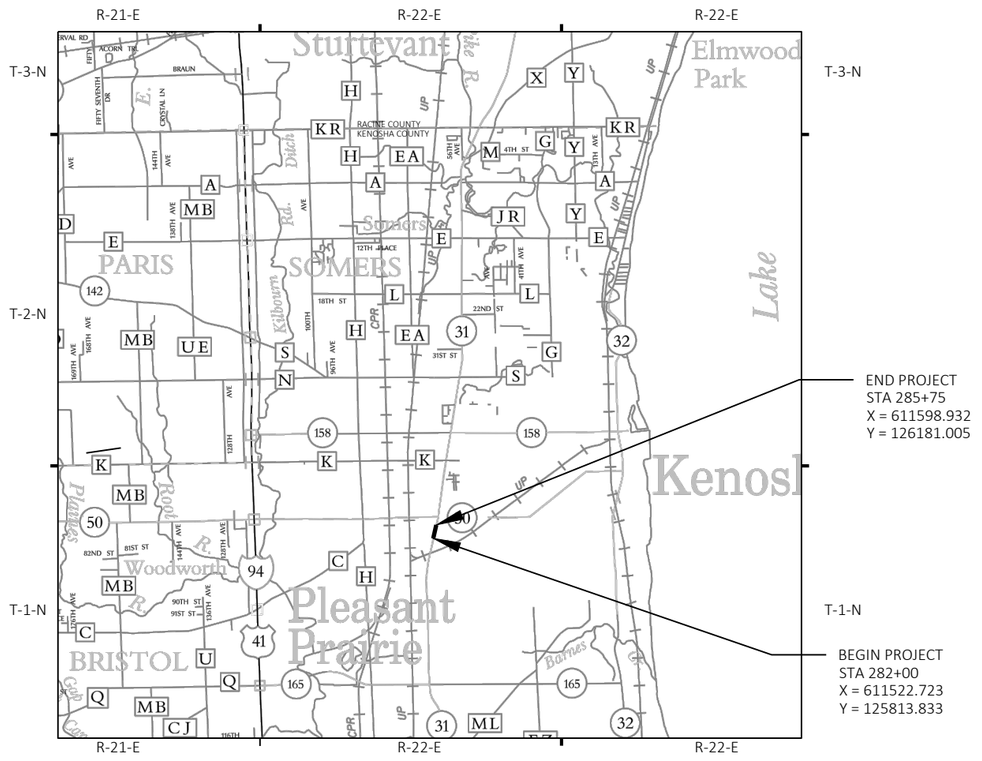
GREEN BAY ROAD, CITY OF KENOSHA

78TH STREET INTERSECTION

STH 31

KENOSHA COUNTY

STATE PROJECT NUMBER
3340-09-70



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 0.047 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), KENOSHA COUNTY, NAD83 (2007), 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 (2007). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	STEVEN ROTIER
Project Manager	DOUGLAS CAIN
Regional Examiner	
Regional Supervisor	BENEDICT ERUCHALU

APPROVED FOR THE DEPARTMENT

DATE: 4/27/22 (Signature)

E

FILE NAME : N:\PDS\C3D\33400900\SHEETSPLAN\010101_TI.DWG PLOT DATE : 7/19/2022 4:22 PM PLOT BY : ROTIER, STEVEN J PLOT NAME :

GENERAL NOTES

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. APPLY SEED AND FERTILIZE TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.

EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICES IS NO LONGER REQUIRED.

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. 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.

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER.

FOR INLET AND CATCH BASIN STRUCTURES LOCATED IN THE CURB OR IN FRONT OF BARRIER, STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE FLOW LINE. MH STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE CENTER OF STRUCTURE. SEE CONSTRUCTION DETAILS.

CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER MONUMENT.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.

SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

TINE CONCRETE PAVEMENT LONGITUDINALLY UNLESS OTHERWISE IDENTIFIED IN THE PLAN OR DIRECTED BY THE ENGINEER.

RESHAPE, RESTORE AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT

WHEN DEFINING THE PAVEMENT STRUCTURE, THE BOTTOM OF THE BASE AGGREGATE DENSE IS CONSIDERED THE SUBGRADE LINE.

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

UTILITY CONTACTS

MATTHEW SCHULTE
TDS METROCOM LLC-
COMMUNICATION LINE
16924 WEST VICTOR RD
NEW BERLIN, WI 53151
262-754-3063
MATT.SCHULTE@TDSTELECOM.COM

CURT CZARNECKI
KENOSHA WATER UTILITY - WATER
4401 GREEN BAY ROAD
KENOSHA, WI 53144
262-653-4306
CCZARNECKI@KENOSHA.ORG

CURT CZARNECKI
KENOSHA WATER UTILITY - SEWER
4401 GREEN BAY ROAD
KENOSHA, WI 53144
262-653-4306
CCZARNECKI@KENOSHA.ORG

MIKE VANBOVEN
AT&T WISCONSIN -
COMMUNICATION LINE
411 7TH STREET
RACINE, WI 53403
262-676-3958
MV3658@ATT.COM

LORI KETTER
WINDSTREAM KDL, LLC
-COMMUNICATION LINE
314 N DANZ AVE
GREEN BAY, WI 54302-3526
414-274-9215
LORI.KETTER@WINDSTREAM.COM

BRIAN CATER
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ROOM 305
625 52ND ST.
KENOSHA, WI 53140
262-653-4156
BCATER@KENOSHA.ORG

DAVE YOPPS
SPECTRUM - COMMUNICATION LINE
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
414-277-4281
DAVE.YOPPS@CHARTER.COM

PAYDEN VOLBRECHT
WE ENERGIES - GAS/PETROLEUM
7815 NORTHWESTERN AVE
RACINE, WI 53406
262-365-6412
DISPATCH 800-261-5325
PAYDEN.VOLBRECHT@WE-ENERGIES.COM

JAMES NELSON
WE ENERGIES - ELECTRICITY
7815 NORTHWESTERN AVE
RACINE, WI 53406
262-884-6734
DISPATCH 800-662-4797
JAMES.NELSON@WE-ENERGIES.COM

LOCAL CONTACTS

JONATHAN RIOS
ROUTE SUPERVISOR
KENOSHA TRANSIT
4303 39TH AVENUE
262-960-6796
JRIOS@KENOSHA.ORG

ROB MERRY
SOUTHESTERN WISCONSIN REGIONAL
PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE
PO BOX 1607
WAUKESHA, WI 53187-1607
262-953-4289
CELL 920-912-1036
RMERRY@SEWRPC.ORG

PROJECT DESIGN CONTACTS

DOUGLAS CAIN
DESIGN PROJECT MANAGER
WISCONSIN DEPARTMENT OF
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141 NW BARSTOW ST
WAUKESHA WI 53188
(262) 548-5603
DOUGLAS.CAIN@DOT.WI.GOV

STEVEN ROTIER
DESIGN PROJECT LEADER
WISCONSIN DEPARTMENT OF
TRANSPORTATION
141 NW BARSTOW ST
WAUKESHA WI 53188
(262) 548-5679
STEVEN.ROTIER@DOT.WI.GOV

ENVIRONMENTAL CONTACTS

BENTON STELZEL
WISCONSIN DEPARTMENT OF
NATURAL RESOURCES
141 NW BARSTOW ST, ROOM
180,
WAUKESHA WI 53188
(˙262) 623-0194
BENTON.STELZEL@WISCONSIN.GOV

ORDER OF SECTION 2 SHEETS
PROJECT OVERVIEW
TYPICAL SECTIONS
PLAN DETAILS
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT

2

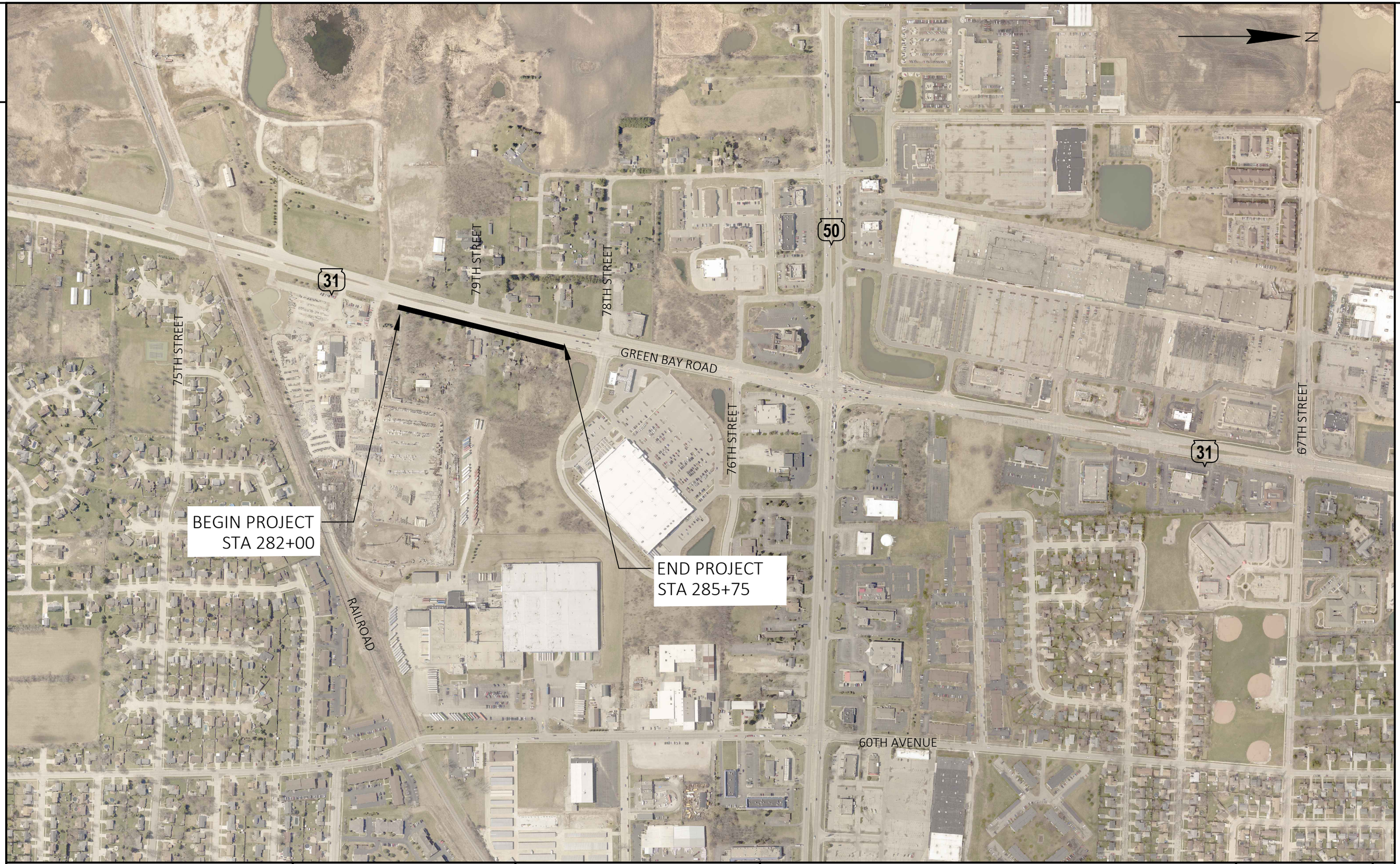
STANDARD ABBREVIATIONS

AP	ACCESS POINT
AC	ACRE
ADJ	ADJUST
AECPRC	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE
AH	AHEAD
AC	ASPHALT CEMENT
ASPH	ASPHALTIC
ACP	ASPHALTIC CONCRETE PAVEMENT
AVG	AVERAGE
ADT	AVERAGE DAILY TRAFFIC
BK	BACK
BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
CB	CATCH BASIN
C/L	CENTER LINE
C/L CONST	CENTER LINE CONSTRUCTION
Δ	CENTRAL ANGLE OR DELTA
CL	CLASS
CONC	CONCRETE
CONST	CONSTRUCTION
CMCP	CORRUGATED METAL CULVERT PIPE
CTH	COUNTY TRUNK HIGHWAY
CABC	CRUSHED AGGREGATE BASE COURSE
CFS	CUBIC FEET PER SECOND
CY	CUBIC YARD
CP	CULVERT PIPE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DD	DIRECTIONAL DISTRIBUTION
DWY	DRIVEWAY
NOM	NOMINAL
NC	NORMAL CROWN
N	NORTH
Y	NORTH GRID COORDINATE
NB	NORTHBOUND
NO	NUMBER
OPT	OPTIONAL
OD	OUTSIDE DIAMETER
PAVT	PAVEMENT
PLE	PERMANENT LIMITED EASEMENT
PACS	PIPE ARCH CORRUGATED STEEL
P	POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVC	POLYVINYL CHLORIDE
PCC	PORTLAND CEMENT CONCRETE
LB	POUND
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PL	PROPERTY LINE
Q100	100-YEAR FLOW RATE
R	RADIUS
RR	RAILROAD
R	RANGE
R/L	REFRENCE LINE
REINF	REINFORCING OR REINFORCEMENT
REQD	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
RD	ROAD
RDWY	ROADWAY
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND
EL	ELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FPS	FEET PER SECOND
FERT	FERTILIZE
FE	FIELD ENTRANCE
FL	FLOW LINE
FT	FOOT
GN	GRID NORTH
HES	HIGH EARLY STRENGTH
HP	HIGH POINT
HW	HIGH WATER
HMA	HOT MIX ASPHALT
CWT	HUNDREDWEIGHT
HWD	HYDRANT
INL	INLET
ID	INSIDE DIAMETER
I	INTERSECTION ANGLE
INV	INVERT
IP	IRON PIPE OR PIN
JT	JOINT
LT	LEFT
LC	LENGTH OF CURVE
LF	LINEAR FOOT
LP	LOW POINT
LS	LUMP SUM
MH	MANHOLE
MAX	MAXIMUM
MGAL	MEGAGALLON
MPH	MILES PER HOUR
MIN	MINIMUM
MON	MONUMENT
SEC	SECTION
SHLDR	SHOULDER
S	SOUTH
SB	SOUTHBOUND
SQ	SQUARE
SF	SQUARE FEET
SW	SIDEWALK
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAYS
STA	STATION
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
ST	STREET
STR	STRUCTURE OR STRUCTURAL
SE	SUPERELEVATION
T	TANGENT
TEMP	TEMPORARY
TI	TEMPORARY INTEREST
TLE	TEMPORARY LIMITED EASEMENT
t	TON
T	TOWN
T/L	TRANSIT LINE
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
USH	UNITED STATES HIGHWAY
VAR	VARIABLE
V	VELOCITY OF DESIGN SPEED
VERT	VERTICAL
VC	VERTICAL CURVE
VOL	VOLUME
WM	WATERMAIN
WV	WATER VALVE
W	WEST
WB	WESTBOUND
YD	YARD

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

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	GENERAL NOTES, UTILITY CONTACTS	SHEET 2	E

2

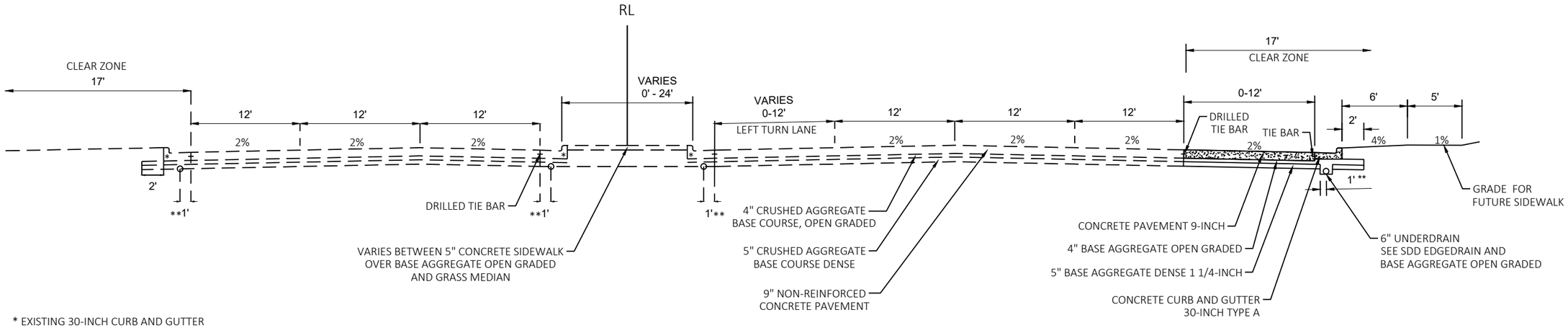


PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	PROJECT OVERVIEW	SHEET 3 E

FILE NAME : N:\PDS\C3D\33400900\SHEETSPLAN\020201_PO.DWG
LAYOUT NAME - PO

PLOT DATE : 7/19/2022 4:22 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : Custom

2



* EXISTING 30-INCH CURB AND GUTTER

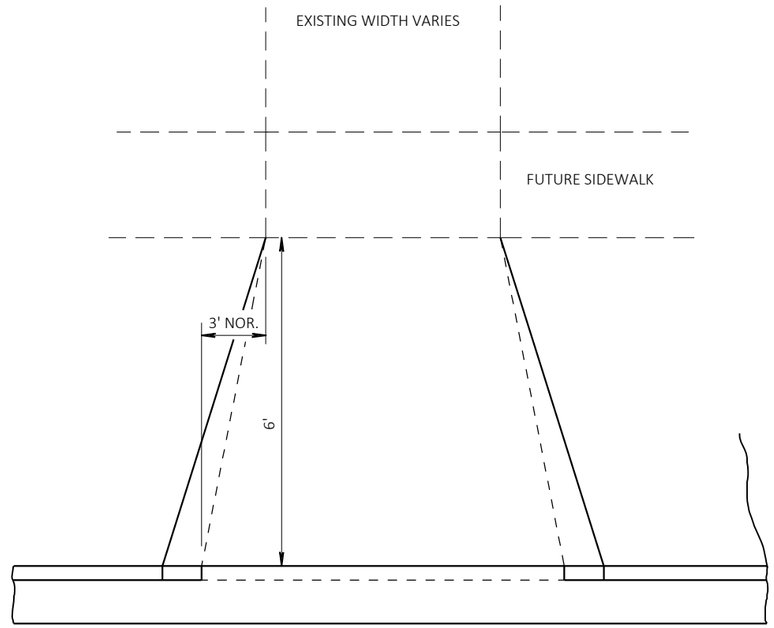
** EXISTING 6" UNDERDRAIN

EXISTING AND PROPOSED
TYPICAL SECTION
STH 31
STA 282+04 TO STA 285+53.67

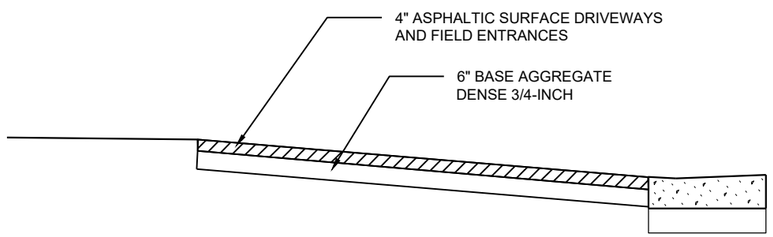
PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : N:\PDS\C3D\33400900\SHEETSPLAN\020301_TS.DWG
LAYOUT NAME - 020301-ts 1in-10ft
PLOT DATE : 7/19/2022 4:22 PM
PLOT BY : ROTIER, STEVEN J
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

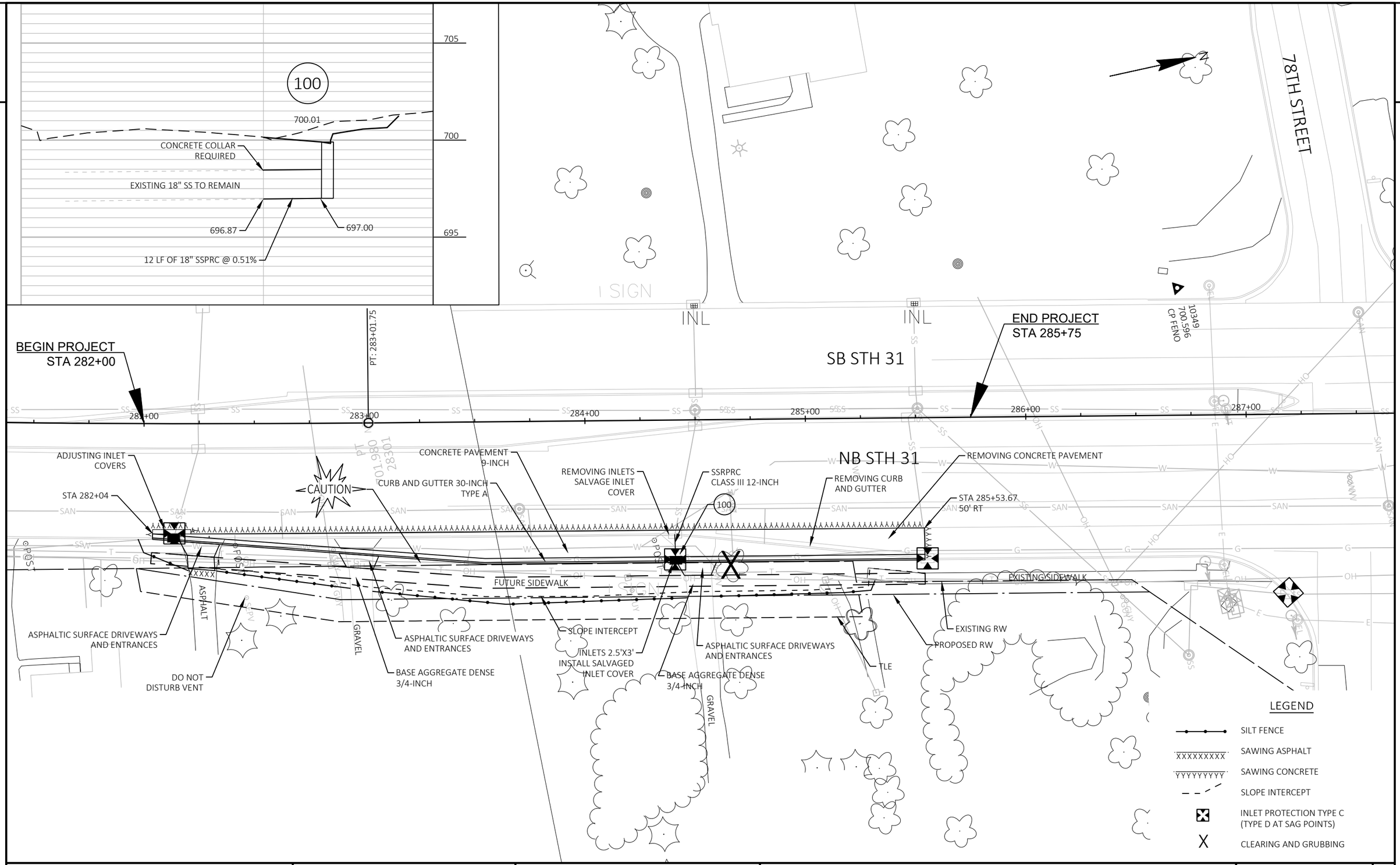


PLAN



PROFILE

URBAN DRIVEWAY DETAIL



PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	PLAN DETAILS	SHEET 6	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY(S)	PHONE#
• JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
• CHUCK SALDIVAR	WALWORTH, WAUKESHA, RACINE	414-750-1682

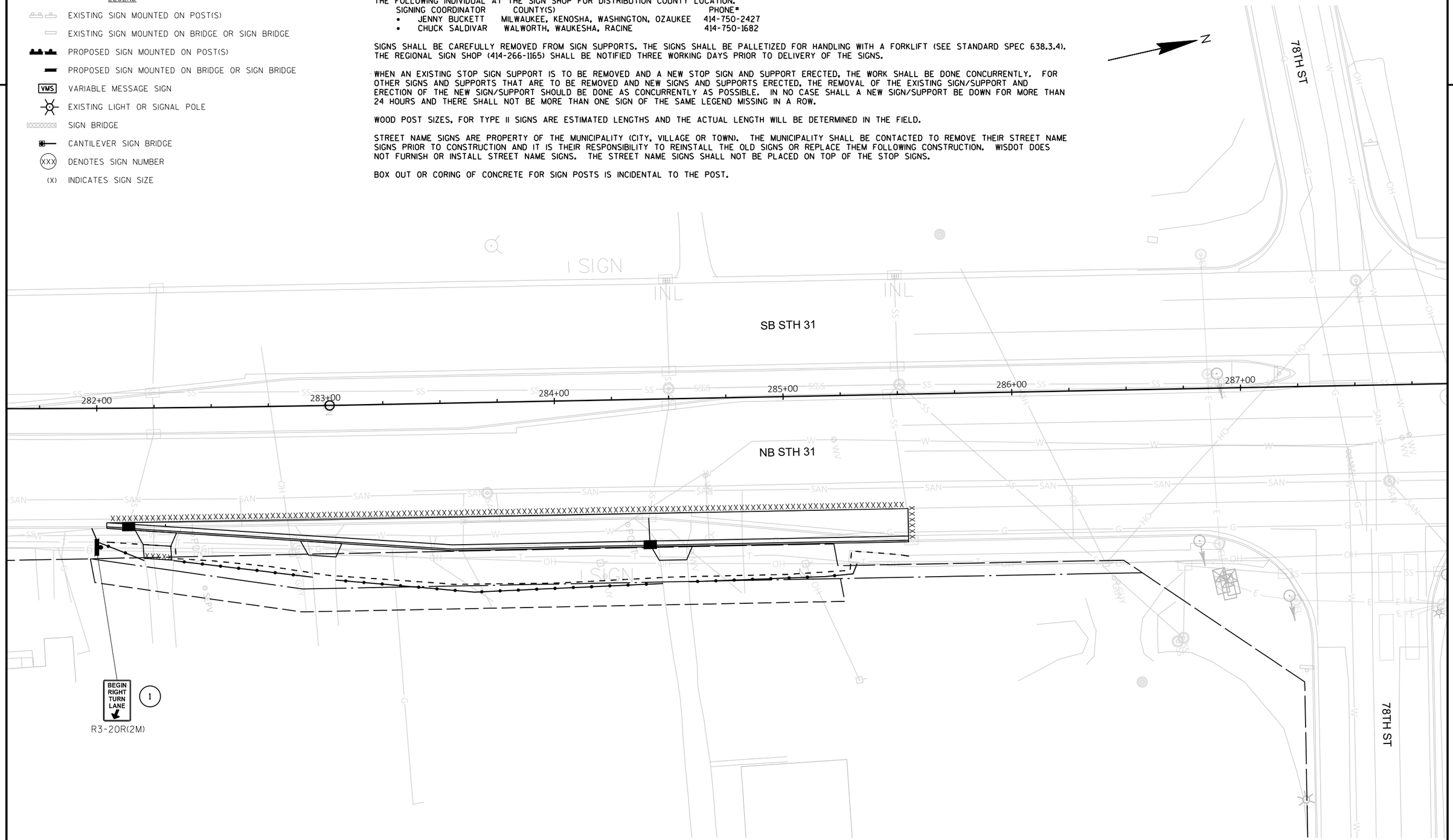
SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

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

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.



SHEET 1 OF 1

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	PERMANENT SIGNING	SHEET 7	E

FILE NAME : N:\PDS\C3D\CAD\33400900\SIGN\023201_PS_3340-09-00_20.DWG
LAYOUT NAME - Sht-01

PLOT DATE : 7/19/2022 4:24 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

78TH STREET

SIGN

INL

INL

PT: 283+01.75

SB STH 31

282+00

283+00

284+00

285+00

286+00

287+00

NB STH 31

STA 282+04

3

4

2

1

5

4

+54

+74

+12

+52

+80

POST

POST

POST

FUTURE SIDEWALK

SIGN

PAVEMENT MARKING LEGEND

1. MARKING EPOXY 4-INCH (WHITE)
2. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE)
3. MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE, 3' LINE, 9' GAP)
4. MARKING ARROW EPOXY
5. MARKING WORD EPOXY

NOTE: REPLACE LANE LINE (EPOXY 4-INCH) REMOVED FOR TRAFFIC CONTROL

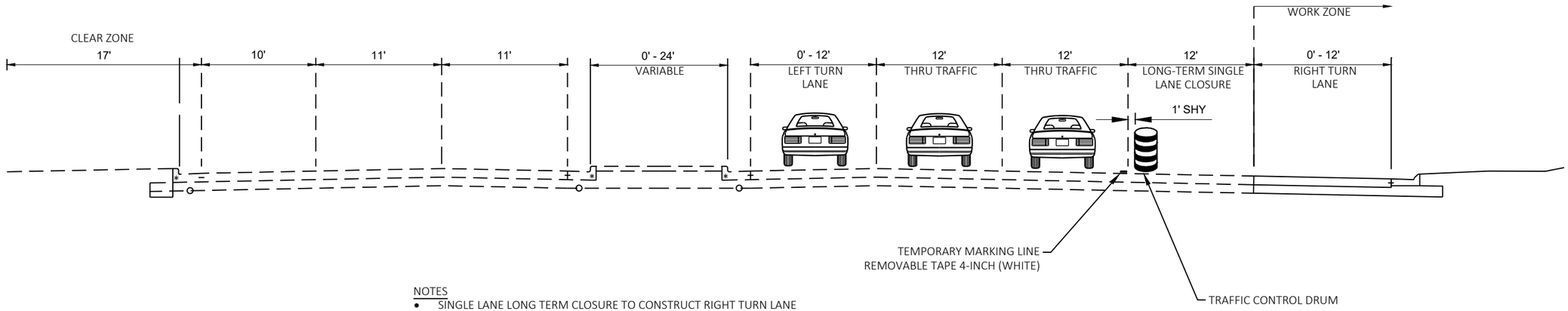
PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	PAVEMENT MARKING	SHEET 8	E

FILE NAME : N:\PDS\C3D\33400900\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - Plan 1 IN 40 FT

PLOT DATE : 7/19/2022 4:25 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



NOTES

- SINGLE LANE LONG TERM CLOSURE TO CONSTRUCT RIGHT TURN LANE
- SEE SDD TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED, NON-FREEWAY/EXPRESSWAY

STAGING TYPICAL SECTION
STH 31 - NORTHBOUND

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL TYPICAL SECTION	SHEET 9	E

2

LEGEND

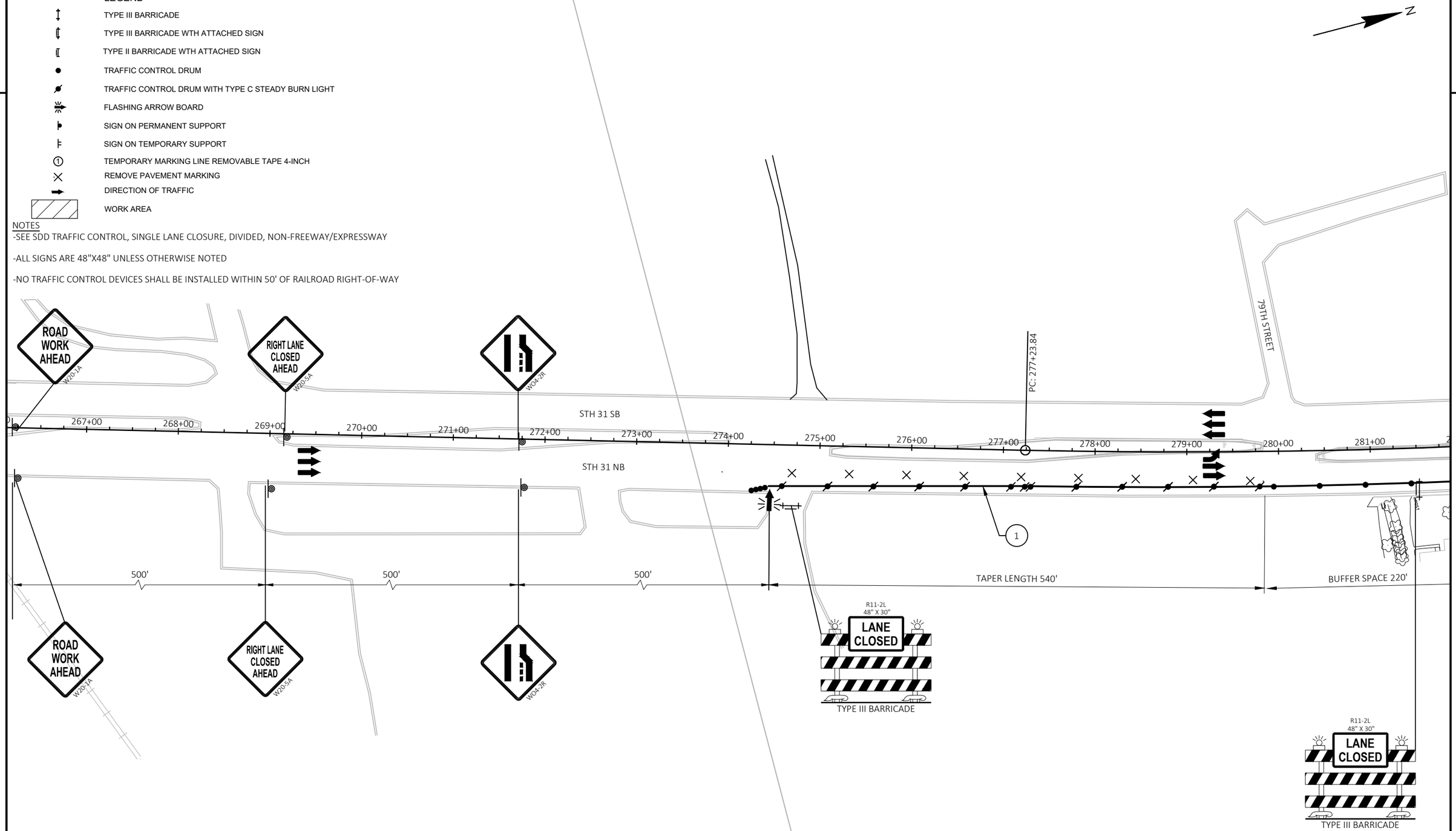
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TYPE II BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
- REMOVE PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

NOTES

-SEE SDD TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED, NON-FREEWAY/EXPRESSWAY

-ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED

-NO TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WITHIN 50' OF RAILROAD RIGHT-OF-WAY



PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL	SHEET 10	E

FILE NAME : N:\PDS\C3D\33400900\SHEETSPLAN\025100_TC.DWG
LAYOUT NAME - Sheet - (1)

PLOT DATE : 7/19/2022 4:26 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

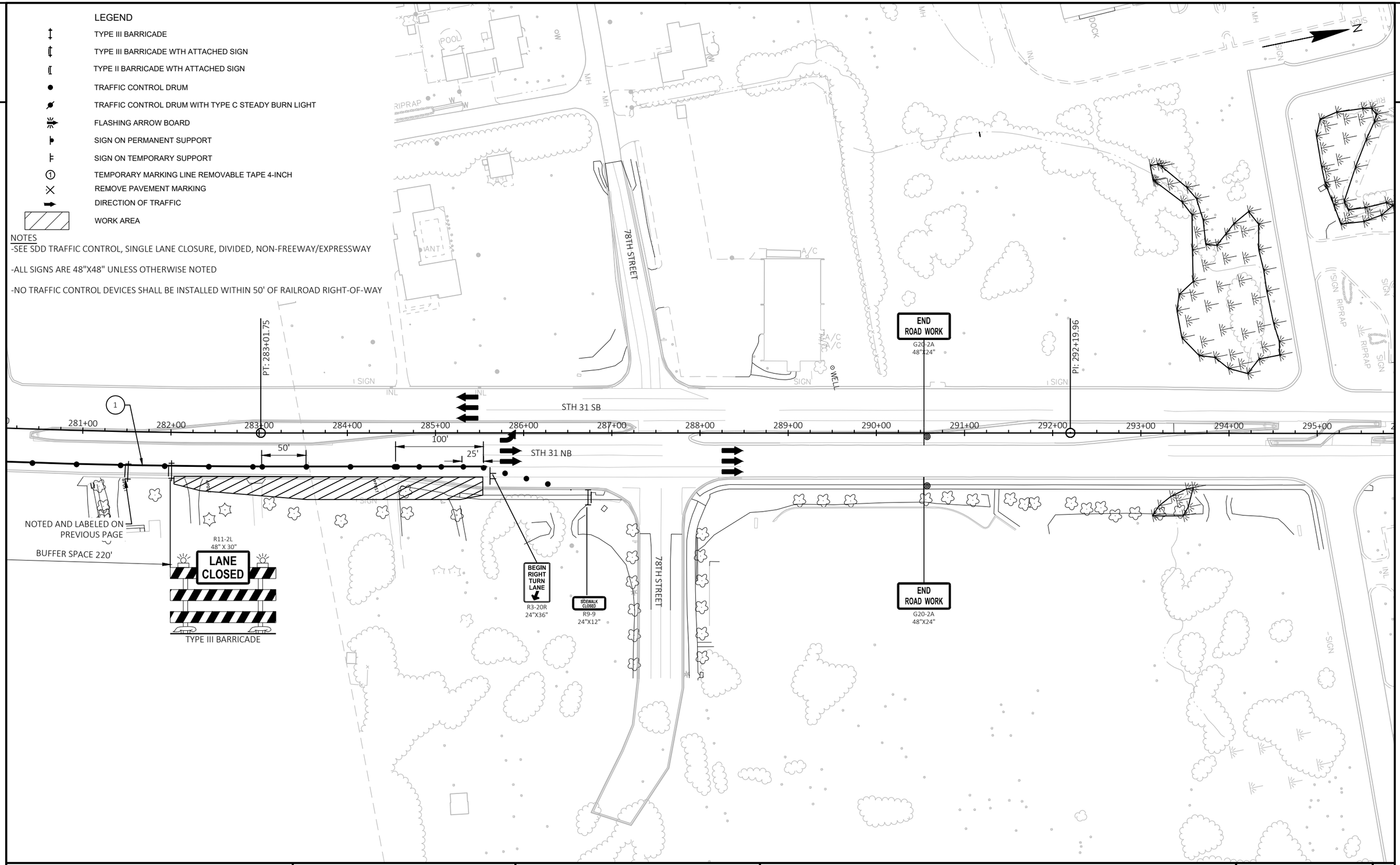
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TYPE II BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
- REMOVE PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

NOTES

-SEE SDD TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED, NON-FREEWAY/EXPRESSWAY

-ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED

-NO TRAFFIC CONTROL DEVICES SHALL BE INSTALLED WITHIN 50' OF RAILROAD RIGHT-OF-WAY



PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	TRAFFIC CONTROL	SHEET 11	E

FILE NAME : N:\PDS\C3D\33400900\SHEETSPLAN\025100_TC.DWG
LAYOUT NAME - Sheet - (2)

PLOT DATE : 7/19/2022 4:26 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PI STA = 280+12.93
DELTA = 4°20'58" LT
D = 0°45'09"
T = 289.09'
L = 577.91'
R = 7612.82'
PC STA = 277+23.84
PT STA = 283+01.75

PT: 283+01.75

PI: 292+19.96

STH 31 SB

STH 31 NB

N11°37'18"E
918.21'

280 282 284 286 288 290 292 294

78TH STREET

BM CHIS X WEST BOLT MONO TUBE BASE NE Quad
703.170
1179

BM1179
STA 288+26.78 56.48' RT
ELEV: 703.170
N: 126416.2440
E:611704.9730
CHIS X WEST BOLT
MONOTUBE BASE NE QUAD

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	ALIGNMENT - STH 31	SHEET 12	E

FILE NAME : N:\PDS\C3D\33400900\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 01

PLOT DATE : 7/19/2022 4:27 PM PLOT BY : ROTIER, STEVEN J PLOT NAME : PLOT SCALE : 1 IN:100 FT

3340-09-70

Line	Item	Item Description	Unit	Total	Qty
0004	201.0120	Clearing	ID	20.000	20.000
0006	201.0220	Grubbing	ID	20.000	20.000
0008	204.0100	Removing Concrete Pavement	SY	80.000	80.000
0014	204.0150	Removing Curb & Gutter	LF	350.000	350.000
0020	204.0220	Removing Inlets	EACH	1.000	1.000
0038	205.0100	Excavation Common	CY	355.000	355.000
0042	213.0100	Finishing Roadway (project) 02. 3340-09-70	EACH	1.000	1.000
0044	305.0110	Base Aggregate Dense 3/4-Inch	TON	15.000	15.000
0046	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	170.000	170.000
0048	310.0110	Base Aggregate Open-Graded	TON	130.000	130.000
0054	415.0090	Concrete Pavement 9-Inch	SY	371.000	371.000
0056	416.0610	Drilled Tie Bars	EACH	150.000	150.000
0068	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	10.000	10.000
0070	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0072	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	355.000	355.000
0084	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	15.000	15.000
0086	611.3253	Inlets 2.5x3-FT	EACH	1.000	1.000
0090	611.8115	Adjusting Inlet Covers	EACH	1.000	1.000
0092	611.9710	Salvaged Inlet Covers	EACH	1.000	1.000
0094	612.0106	Pipe Underdrain 6-Inch	LF	355.000	355.000
0098	618.0100	Maintenance And Repair of Haul Roads (project) 02. 3340-09-70	EACH	1.000	1.000
0100	619.1000	Mobilization	EACH	0.100	0.100
0104	624.0100	Water	MGAL	3.000	3.000
0106	625.0500	Salvaged Topsoil	SY	500.000	500.000
0108	627.0200	Mulching	SY	500.000	500.000
0110	628.1504	Silt Fence	LF	343.000	343.000
0112	628.1520	Silt Fence Maintenance	LF	343.000	343.000
0114	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0116	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0118	628.7015	Inlet Protection Type C	EACH	3.000	3.000
0120	628.7020	Inlet Protection Type D	EACH	2.000	2.000
0122	629.0210	Fertilizer Type B	CWT	0.600	0.600
0124	630.0140	Seeding Mixture No. 40	LB	9.000	9.000
0126	630.0200	Seeding Temporary	LB	14.000	14.000
0128	630.0500	Seed Water	MGAL	13.000	13.000
0130	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	3.000	3.000
0132	637.2210	Signs Type II Reflective H	SF	26.000	26.000
0136	637.2230	Signs Type II Reflective F	SF	20.000	20.000
0138	638.2102	Moving Signs Type II	EACH	2.000	2.000
0140	638.2602	Removing Signs Type II	EACH	2.000	2.000
0142	638.3000	Removing Small Sign Supports	EACH	2.000	2.000
0144	642.5001	Field Office Type B	EACH	0.100	0.100
0146	643.0300	Traffic Control Drums	DAY	1,600.000	1,600.000
0148	643.0410	Traffic Control Barricades Type II	DAY	50.000	50.000
0150	643.0420	Traffic Control Barricades Type III	DAY	150.000	150.000
0152	643.0705	Traffic Control Warning Lights Type A	DAY	200.000	200.000
0154	643.0715	Traffic Control Warning Lights Type C	DAY	700.000	700.000
0156	643.0800	Traffic Control Arrow Boards	DAY	50.000	50.000
0158	643.0900	Traffic Control Signs	DAY	650.000	650.000

3340-09-70

Line	Item	Item Description	Unit	Total	Qty
0168	643.5000	Traffic Control	EACH	0.100	0.100
0172	646.1020	Marking Line Epoxy 4-Inch	LF	602.000	602.000
0176	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	476.000	476.000
0178	646.5020	Marking Arrow Epoxy	EACH	2.000	2.000
0180	646.5120	Marking Word Epoxy	EACH	1.000	1.000
0192	646.9000	Marking Removal Line 4-Inch	LF	125.000	125.000
0198	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,120.000	1,120.000
0202	650.4000	Construction Staking Storm Sewer	EACH	1.000	1.000
0204	650.4500	Construction Staking Subgrade	LF	355.000	355.000
0206	650.7000	Construction Staking Concrete Pavement	LF	355.000	355.000
0216	650.9910	Construction Staking Supplemental Control (project) 02. 3340-09-70	LS	1.000	1.000
0218	650.9920	Construction Staking Slope Stakes	LF	355.000	355.000
0346	690.0150	Sawing Asphalt	LF	13.000	13.000
0348	690.0250	Sawing Concrete	LF	372.000	372.000
0350	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	112.000	112.000

3

ROADWAY ITEMS

LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB AND GUTTER LF	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	310.0110 BASE AGGREGATE OPEN GRADED TON	415.0090 CONCRETE PAVEMENT 9-INCH SY	416.0610 DRILLED TIE BARS EACH	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	612.0106 PIPE UNDERDRAIN LF	624.0100 WATER (AGGREGATE COMPACTION) MGAL	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
PROJECT	80	350	15	170	130	371	150	10	355	355	3	13	372
	80	350	15	170	130	371	150	10	355	355	3	13	372

STORM SEWER

STATION	LOCATION	204.0220 REMOVING INLETS	520.8000 CONCRETE COLLARS FOR PIPE	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	611.3253 INLETS 2.5X3-FT	611.8115 ADJUSTING INLET COVERS	611.9710 SALVAGED INLET COVERS
282+14	NB	--	--	--	--	1	--
284+40	NB	1	1	15	1	--	1
TOTAL		1	1	15	1	1	1

EROSION CONTROL

LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATION EROSION CONTROL EACH	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
PROJECT	313	313	1	2	2	1
UNDISTRIBUTED	30	30	--	--	1	1
TOTAL	343	343	1	2	3	2

TRAFFIC CONTROL

LOCATION	# OF DAYS	643.0300 DRUMS *EACH	643.0300 DRUMS DAY	643.0410 BARRICADES TYPE II *EACH	643.0410 BARRICADES TYPE II DAY	643.0420 BARRICADES TYPE III *EACH	643.0420 BARRICADES TYPE III DAY	643.0705 WARNING LIGHTS TYPE A *EACH	643.0705 WARNING LIGHTS TYPE A DAY	643.0715 WARNING LIGHTS TYPE C *EACH	643.0715 WARNING LIGHTS TYPE C DAY	643.0800 ARROW BOARDS *EACH	643.0800 ARROW BOARDS DAY	643.0900 SIGNS *EACH	643.0900 SIGNS DAY	646.9000 MARKING LINE REMOVAL 4-INCH LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH LF
PROJECT	50	32	1,600	1	50	3	150	4	200	14	700	1	50	13	650	125	1,120
TOTAL			1,600		50		150		200		700		50		650	125	1,120

NOTE:
* FOR INFORMATION ONLY

FINISHING ROADWAY

LOCATION	213.0100 FINISHING ROADWAY EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
PROJECT	1	1
	1	1

MARKING

LOCATION	646.1020 LINE EPOXY 4-INCH (WHITE) LF	646.1020 LINE EPOXY 4-INCH 12.5' LINE 37.5' GAP (WHITE) LF	646.3545 LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (WHITE) LF	646.3545 LINE GROOVED WET REF CONTRAST EPOXY 8-INCH 3' LINE, 9' GAP (WHITE) LF	646.5020 ARROW EPOXY EACH	646.5120 WORD EPOXY EACH
PROJECT	477	125	326	150	2	1
TOTAL	477	125	326	150	**2**	**1**
	602		**476**			

FINISHING ITEMS

LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE #40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
PROJECT	20	20	500	500	0.6	9	14	13
TOTAL	20	20	500	500	0.6	9	14	13

FIELD OFFICE

LOCATION	642.5001 FIELD OFFICE TYPE B EACH
STH 31	0.1
TOTAL	**0.1**

CONSTRUCTION STAKING

LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.7000 CONCRETE PAVEMENT LF	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
PROJECT	1	355	355	1	355
TOTAL	1	355	355	1	355

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (3)	AVAILABLE MATERIAL (4)	MASS ORDINATE +/- (5)	WASTE	COMMENT
DIVISION 1								
QR-31	282+04/285+53.674		355	0	355	355	355	
DIVISION 1 SUBTOTAL			355	0	355	355	355	
GRAND TOTAL			355	0	355	355	355	
TOTAL COMMON EXC			355					

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(6) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

TYPE II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	**637.2210** SIGNS TYPE II REFLC H [SF]	**637.2230** SIGNS TYPE II REFLC F [SF]	**638.2602** REMOVING SIGNS TYPE II (EA)	**638.3000** REMOVING SMALL SIGN SUPPORTS [EA]	**634.0618** WOOD POSTS 4"X 6"X18' [EA]	**638.2102** MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	R3-20R(2M)		24 x 36	6.000				1			
	UNDISTRIBUTED			20.000	20.000	2	2	2	2		
	TOTALS			26.000	20.000	2	2	3	2		

3

SHEET 1 OF 1

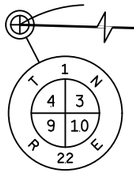
R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
3340-09-20		
FEDERAL PROJECT NUMBER	4.1	-
-		

PLAT OF RIGHT OF WAY REQUIRED FOR

GREEN BAY ROAD, 78TH STREET INTERSECTION

STH 31 — KENOSHA COUNTY

CONSTRUCTION ID NUMBER 3340-09-70



1033
A Concrete Monument
w/ A Brass Cap
Y 127650.59
X 609970.82

1034
A Concrete Monument
w/ A Brass Cap
Y 127574.05
X 612639.12

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	1/2" (1" UNLESS NOTED)	PROPOSED R/W LINE
R/W MONUMENT	●(SET)	EXISTING H.E. LINE
R/W STANDARD	▲(SET)	PROPERTY LINE
SIGN	ISIGN	LOT & TIE LINES
SECTION CORNER MONUMENT	◎	SLOPE INTERCEPTS
SECTION CORNER SYMBOL		CORPORATE LIMITS
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
TEMPORARY LIMITED EASEMENT	TLE	ACCESS RESTRICTED (BY ACQUISITION)
PERMANENT LIMITED EASEMENT	PLE	NO ACCESS (BY STATUTORY AUTHORITY)
R/W BOUNDARY POINT	RWB20	SECTION LINE
PARCEL NUMBER	102	QUARTER LINE
UTILITY PARCEL NUMBER	92	SIXTEENTH LINE
SIGN NUMBER (OFF PREMISE)	21-1	EXISTING CENTERLINE
BUILDING		PROPOSED REFERENCE LINE
		PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W	POWER POLE	
GAS	G	TELEPHONE POLE	
TELEPHONE	T	TELEPHONE PEDESTAL	
OVERHEAD TRANSMISSION LINES	OH	ELECTRIC TOWER	
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
IMAGE	I.	LONG CHORD BEARING	LCB
LAND CONTRACT	LC	RADIUS	R
MONUMENT	MON.	DEGREE OF CURVE	D
PAGE	P.	CENTRAL ANGLE OR DELTA	DELTA
PERMANENT LIMITED EASEMENT	PLE	LENGTH OF CURVE	L
PROPERTY LINE	PL	TANGENT	TAN
REEL	R.		
RECORDED AS	(100')		

CURVE DATA

AREAS SHOWN IN THE TOTAL ACRES COLUMN ARE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS AND OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA ACQUIRED.

SCHEDULE OF LANDS & INTERESTS REQUIRED

NOTE: OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT OF TRANSPORTATION. * DENOTES AREAS COMPUTED

PARCEL NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	REMAINING ACRES	TEMP. ACRES	PARCEL NUMBER
1	MEIJER STORES LIMITED PARTNERSHIP	FEE	1.373	0.017	0.000	0.017	1.356	--	1
2 (2)	GLEN L. & RAY JR. LAWSON	FEE TLE	1.080	0.034	0.000	0.034	1.046	0.023	2
3 (2)	ROBERT A. & MELODY L. FERRUZZI	FEE TLE	1.440	0.046	0.000	0.046	1.394	0.031	3
4 (2)	MICHAEL & EMILIA SCOTT	FEE TLE	0.950	0.015	0.000	0.015	0.935	0.022	4
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS							500

500 **WE ENERGIES - ELECTRIC**
PARCEL 1 - DOC. NO. 324431

Curve Table				
Curve #	Length	Radius	Chord Bearing	Chord Length
C1	27.31	7634.91	N11°43'39"E	27.31

Line Table		
Line #	Length	Direction
L1	15.23	S88° 21' 26"E
L2	5.74	N88° 21' 26"W
L3	93.84	S20° 49' 10"W
L4	91.17	S20° 49' 10"W
L5	90.00	N11° 37' 18"E

CURVE A
PI STA = 280+12.93
Y = 125630.190
X = 611485.648
DELTA = 4°20'58"
D = 0°45'09"
T = 289.09'
L = 577.91'
R = 7612.82'
PC STA = 277+23.84
Y = 125352.255
X = 611406.103
PT STA = 283+01.75
Y = 125913.357
X = 611543.886
BK = N15°58'16.2"E
AH = N11°37'18.1"E

NOTES:

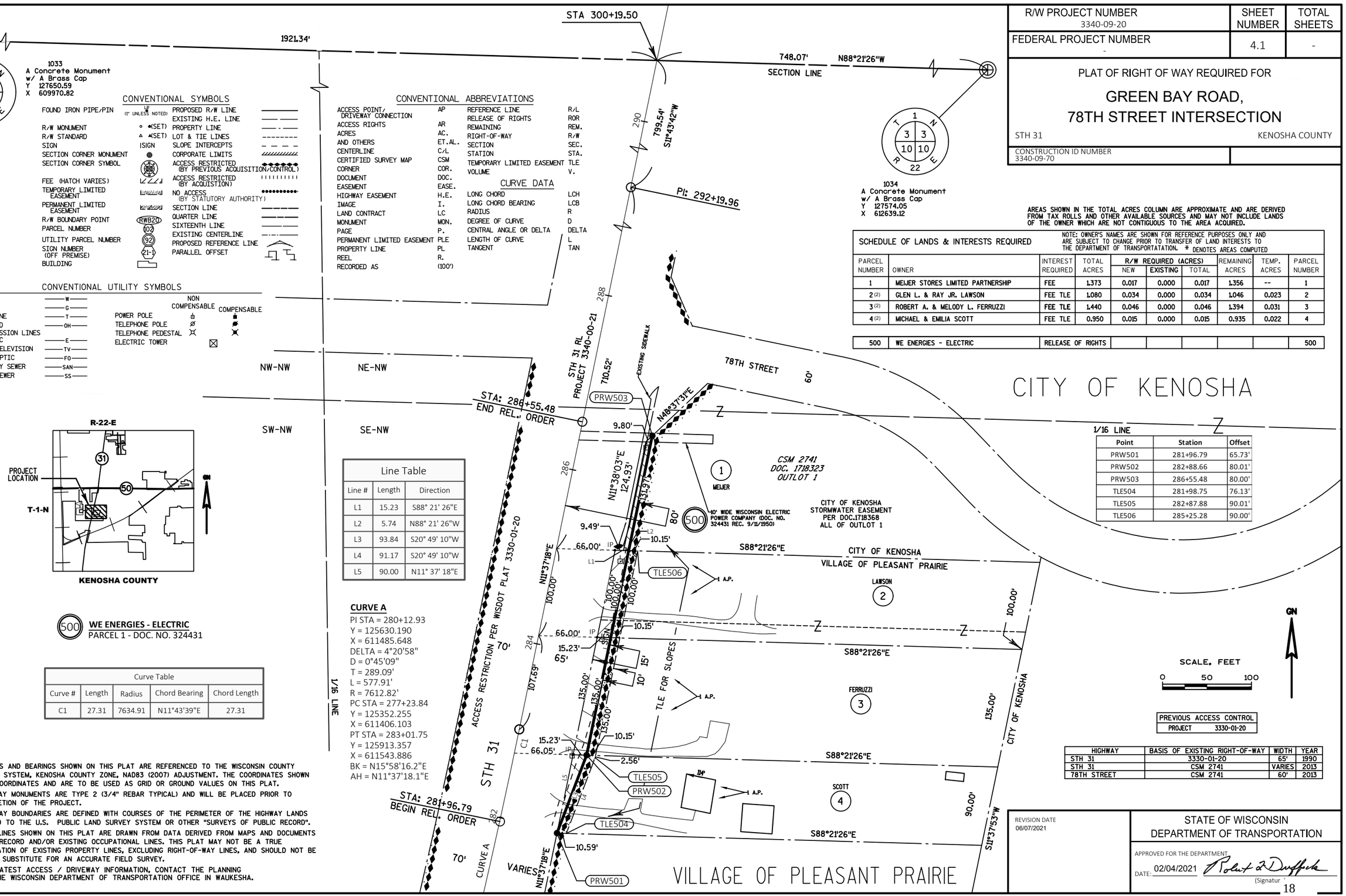
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, KENOSHA COUNTY ZONE, NAD83 (2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (3/4" REBAR TYPICAL) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.



Point	Station	Offset
PRW501	281+96.79	65.73'
PRW502	282+88.66	80.01'
PRW503	286+55.48	80.00'
TLE504	281+98.75	76.13'
TLE505	282+87.88	90.01'
TLE506	285+25.28	90.00'

PREVIOUS ACCESS CONTROL	
PROJECT	3330-01-20

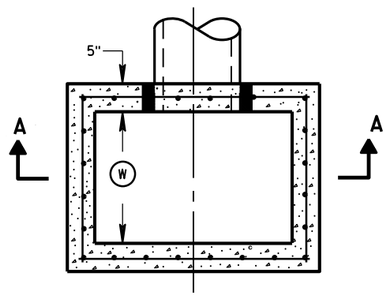
HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
STH 31	3330-01-20	65'	1990
STH 31	CSM 2741	VARIES	2013
78TH STREET	CSM 2741	60'	2013

REVISION DATE	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
06/07/2021	APPROVED FOR THE DEPARTMENT DATE: 02/04/2021 (Signatur

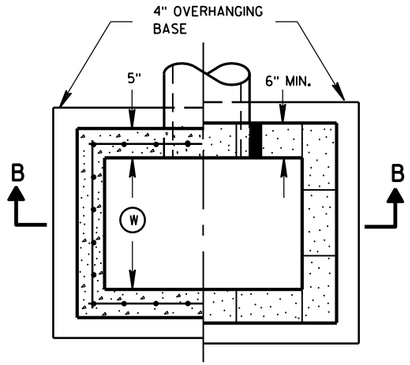
FILE NAME : N:\PDS\C3D\ROW\33400920\040401_RP.DWG PLOT DATE : 6/7/2021 9:45 AM PLOT BY : DODGE, BRIAN PLOT NAME : PLOT SCALE : 1" = 100'_XREF 3340-02-20 4.01

Standard Detail Drawing List

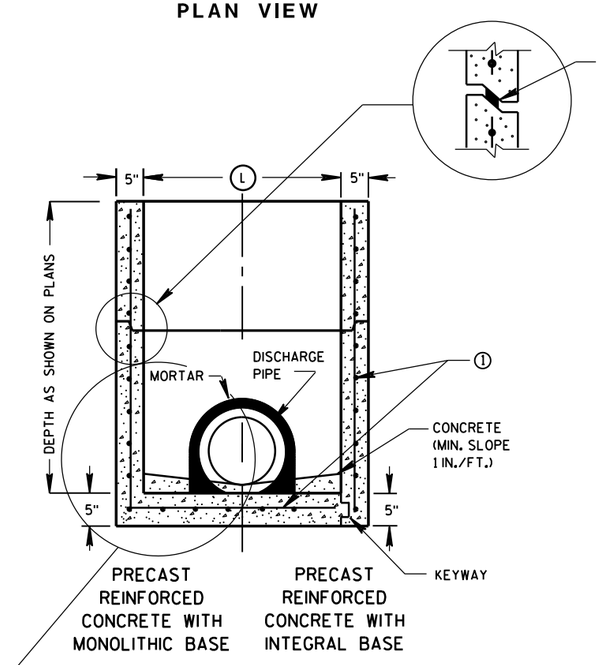
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D15-05B	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08D15-05C	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-17	URBAN NON-DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY



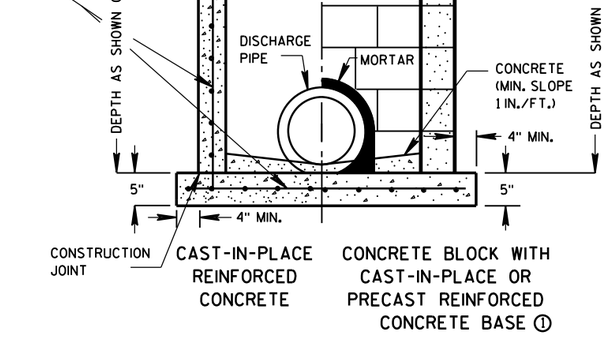
PLAN VIEW



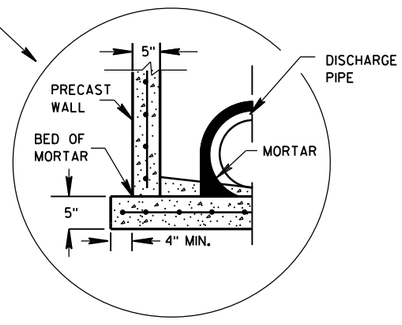
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

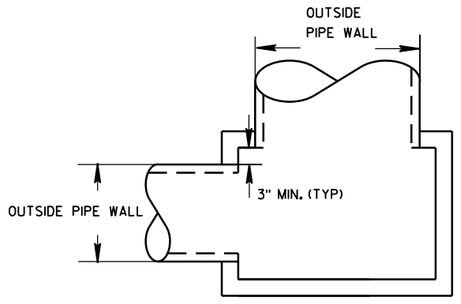
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

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

PIPE MATRIX

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



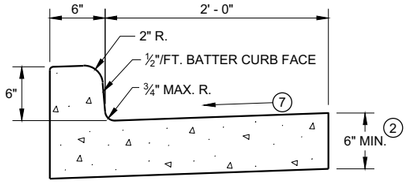
DETAIL "A"

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

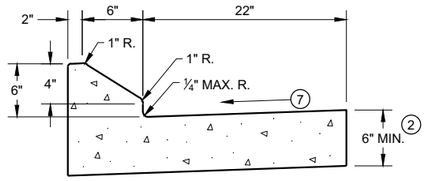
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

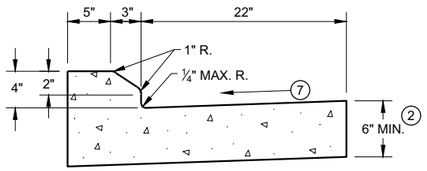
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



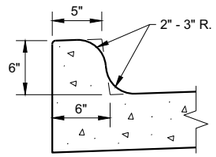
TYPES A (1) & D



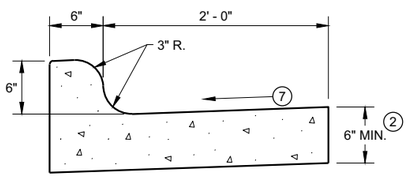
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

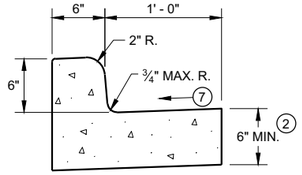


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



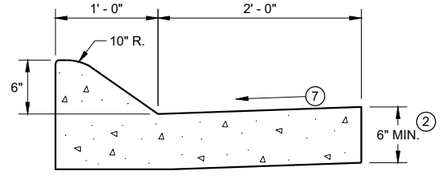
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

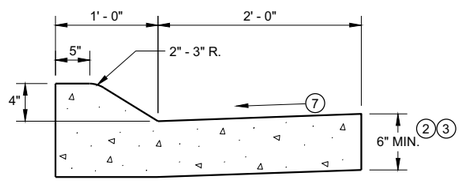


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

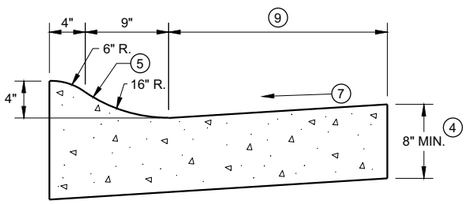


6" SLOPED CURB TYPES A (1) & D



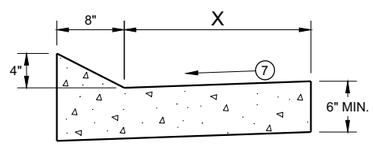
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

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

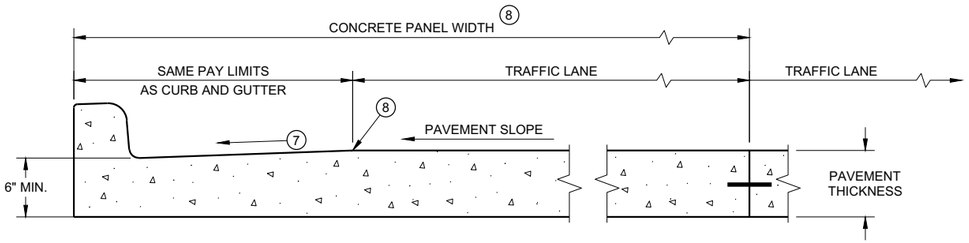


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

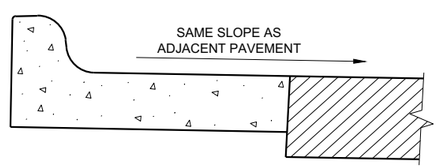
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

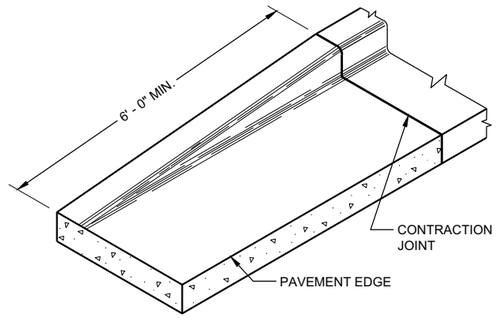
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

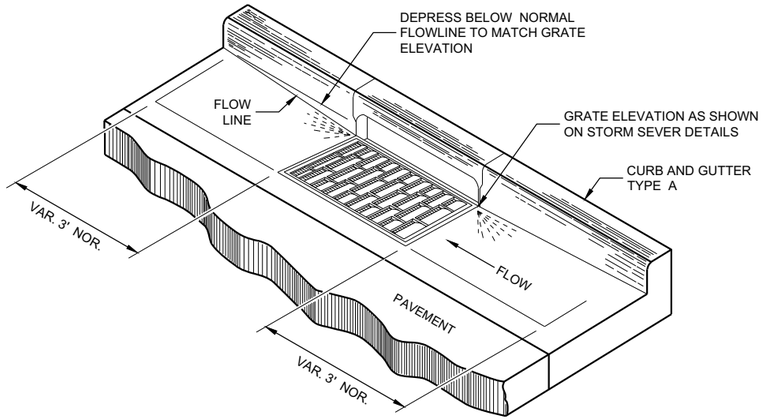
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB 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.

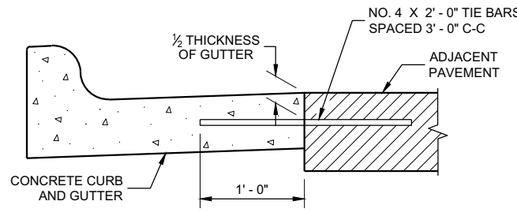
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

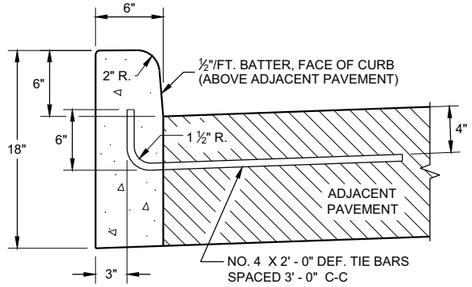
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(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.

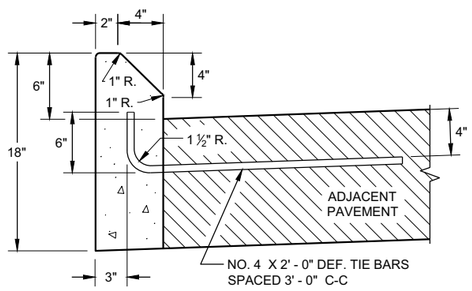
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

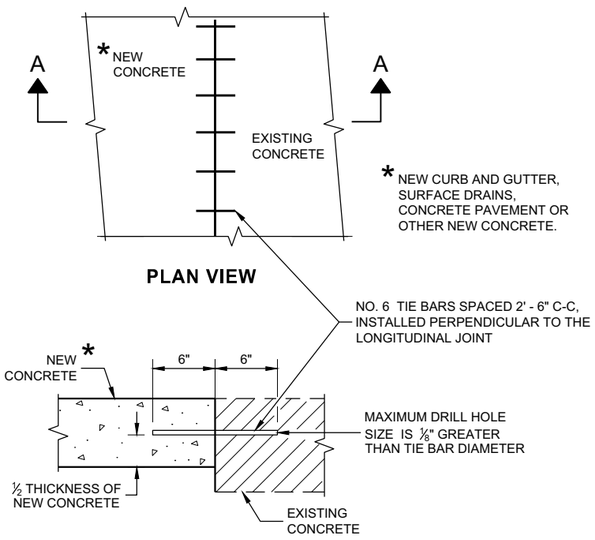


TYPES A (1) & D



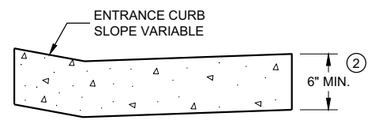
TYPES G (1) & J

CONCRETE CURB



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

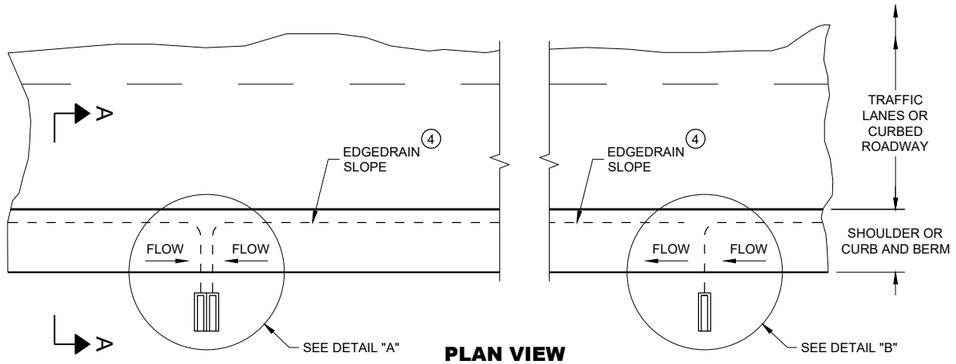
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

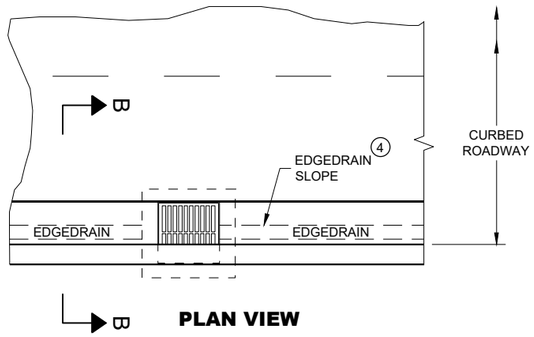
6

SDD08D01 - 22b



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS
(EDGEDRAIN CONNECTS TO ROADSIDE) (2)



PLAN VIEW

ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)

GENERAL NOTES

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

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

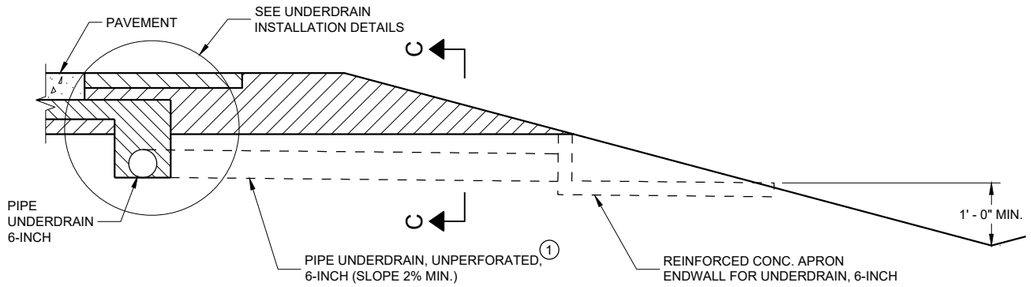
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

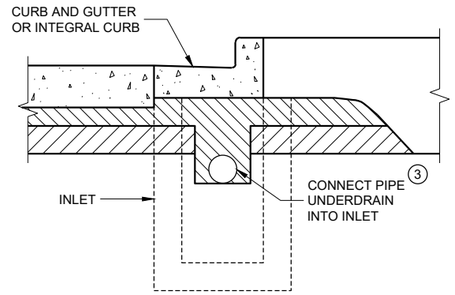
(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



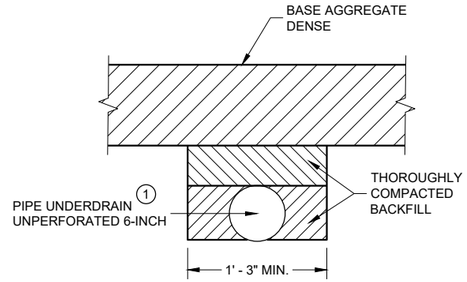
SECTION A - A

RURAL CROSS SECTION



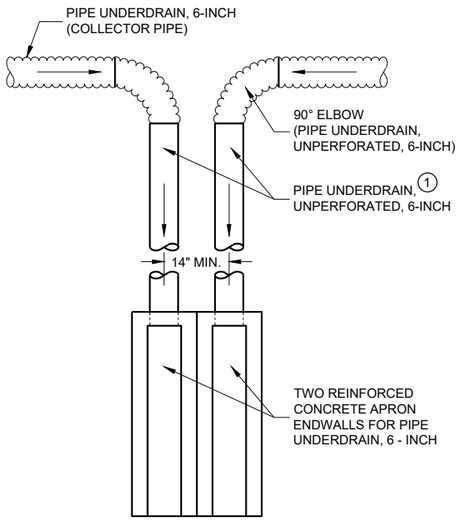
SECTION B - B

URBAN CROSS SECTION

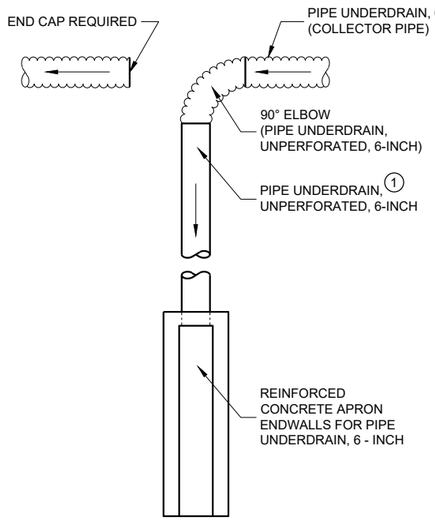


SECTION C - C

TRENCH FOR OUTFALL PIPE

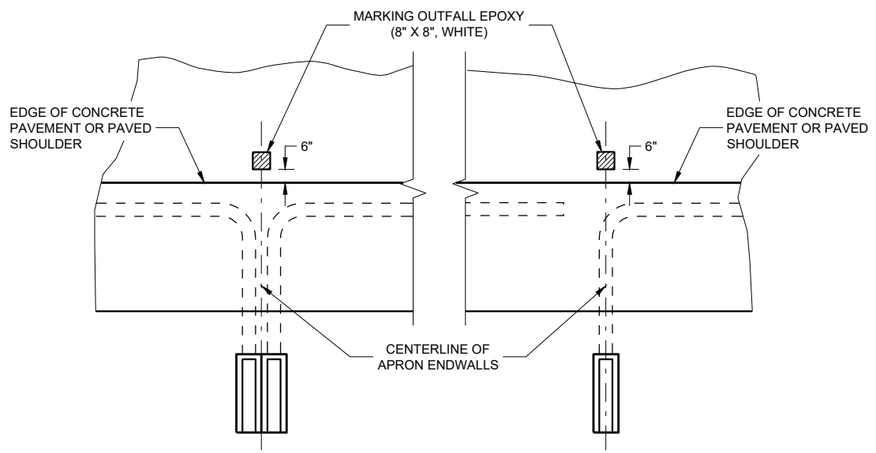


DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS



DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



LOW POINT LOCATIONS — INTERMEDIATE LOCATIONS

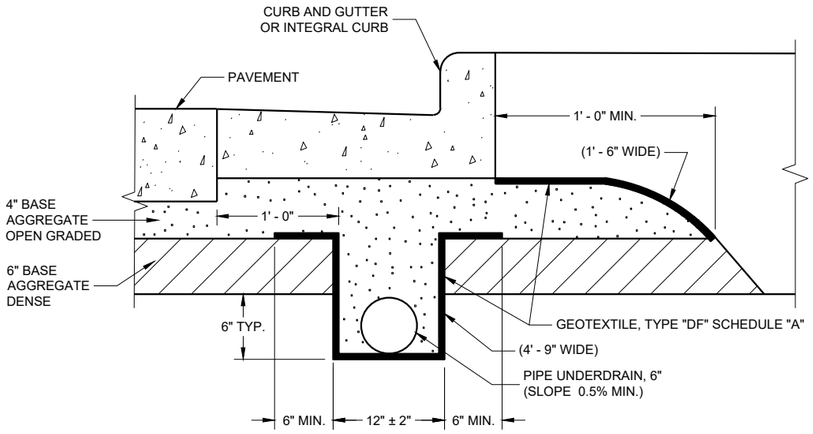
PAVEMENT MARKINGS FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD08D15 - 05a

SDD08D15 - 05a



EDGEDRAIN IN URBAN ROADWAY

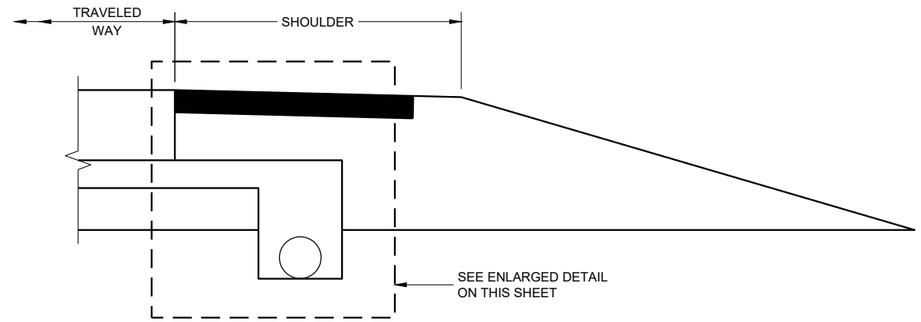
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

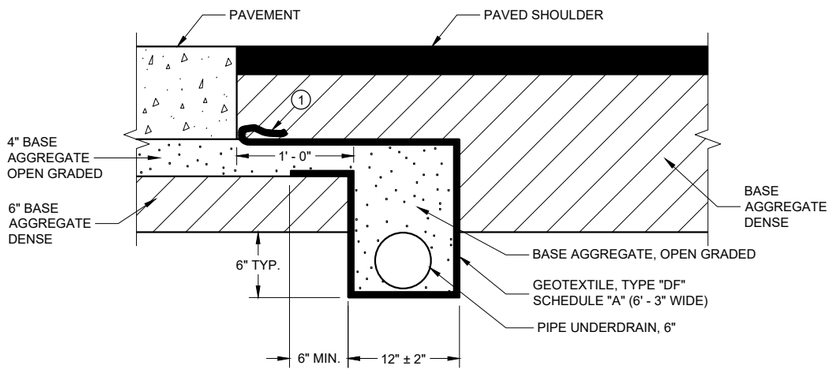
(1) FOLD OVER EXCESS GEOTEXTILE AT THIS LOCATION.

(2) TOTAL GEOTEXTILE WIDTH IS 6'-3" FOR PAYMENT.



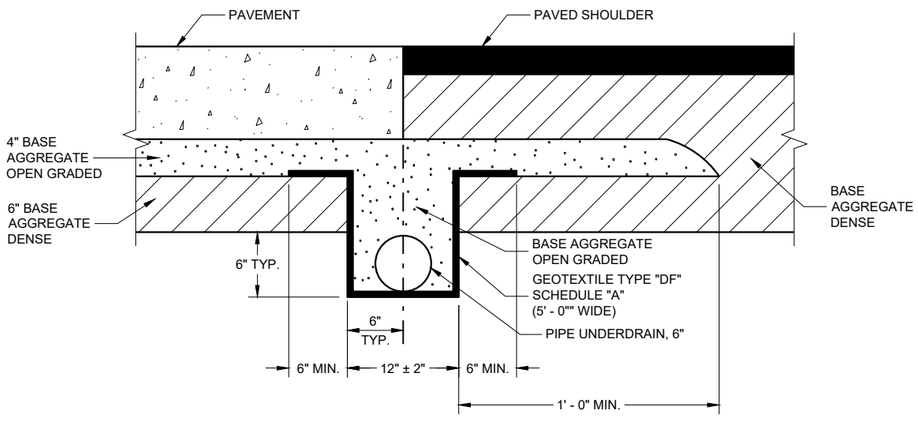
RURAL CROSS SECTION

6



POST PAVING INSTALLATION

(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

6

SDD 08D15 - 05b

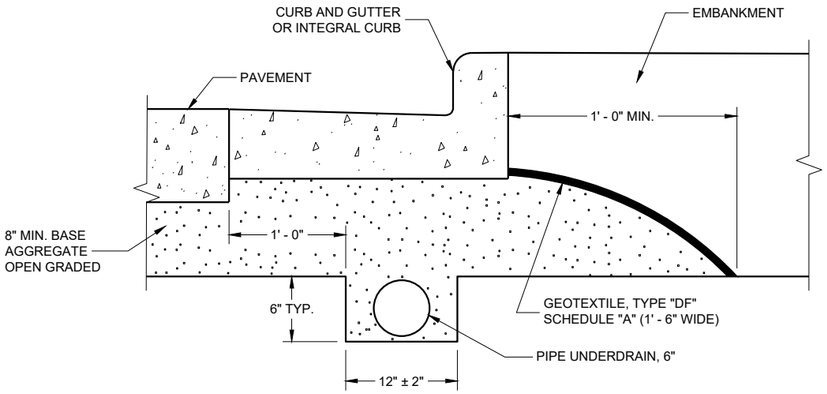
EGEDRAIN AND BASE AGGREGATE OPEN GRADED

SDD 08D15 - 05b

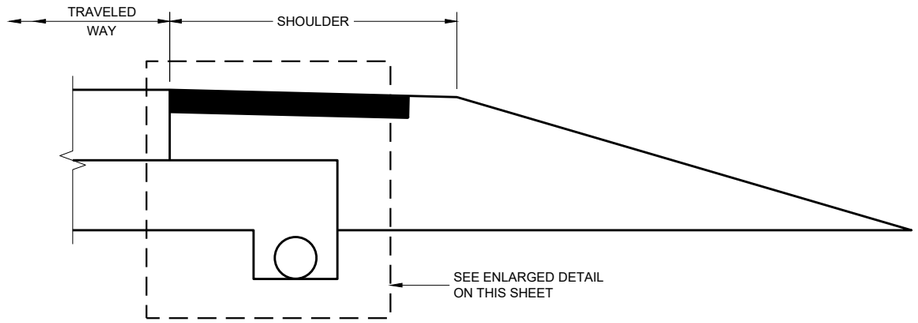
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

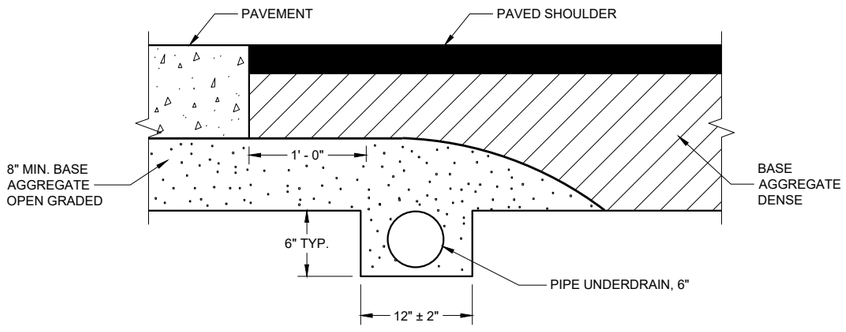
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.



EDGEDRAIN IN URBAN ROADWAY

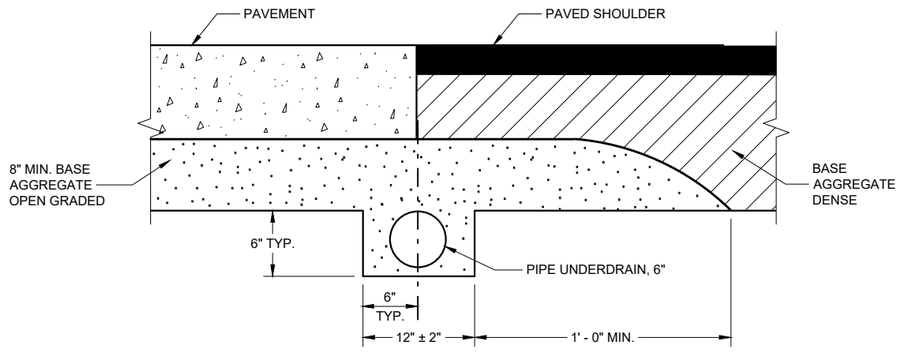


RURAL CROSS SECTION



POST PAVING INSTALLATION

(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

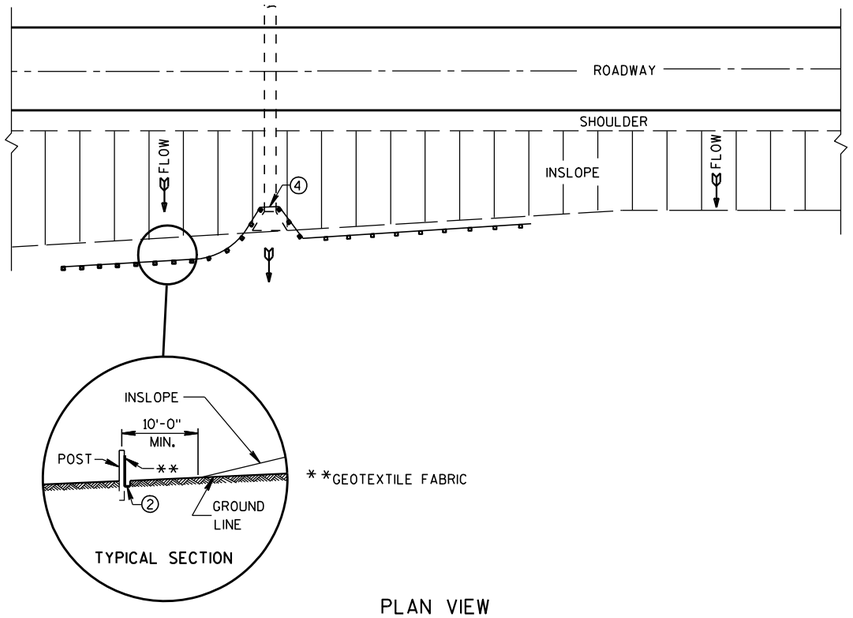
FHWA

6

6

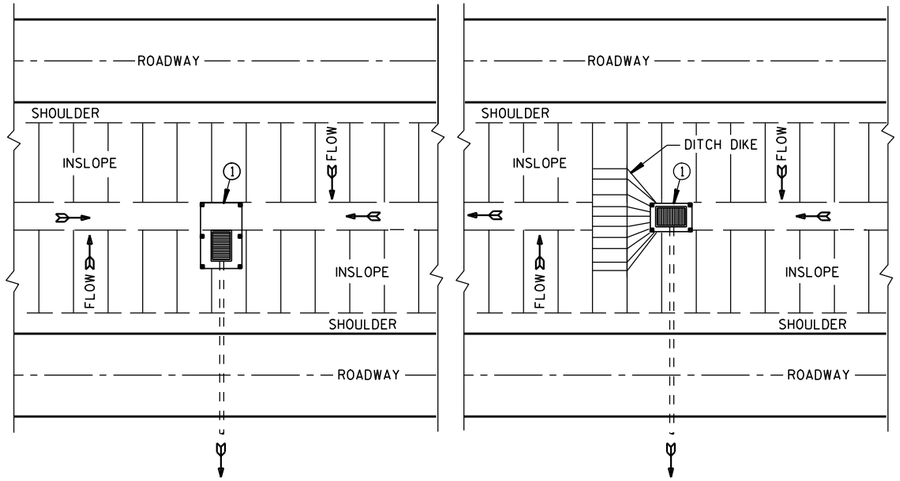
SDD 08D15 - 05c

SDD 08D15 - 05c



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



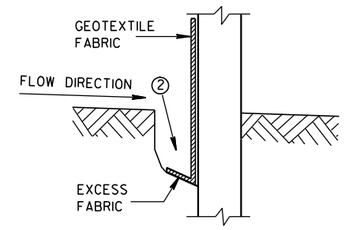
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

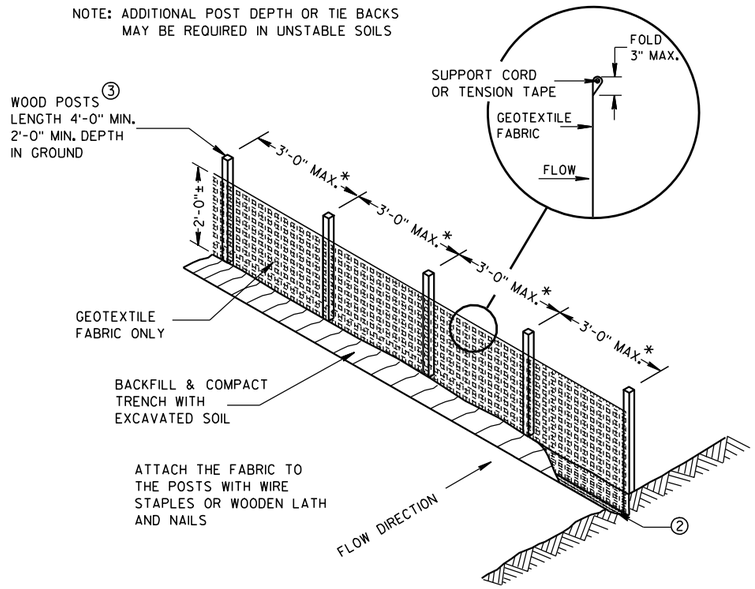
GENERAL NOTES

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

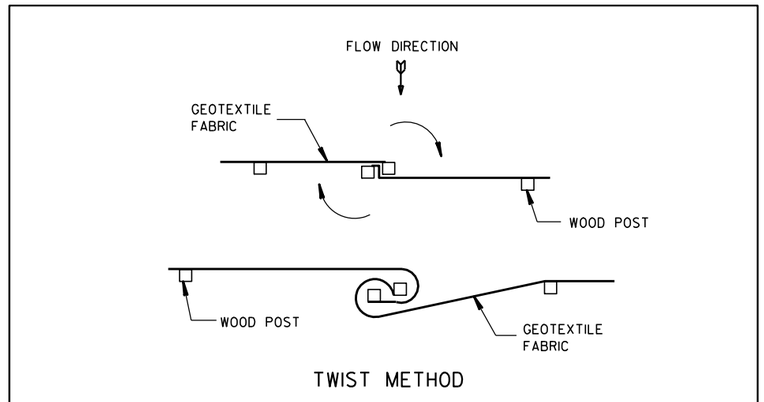
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



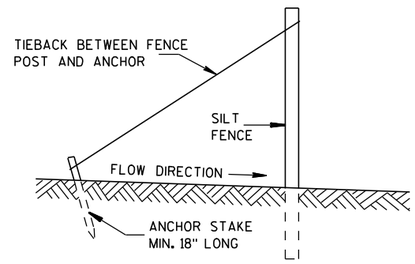
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

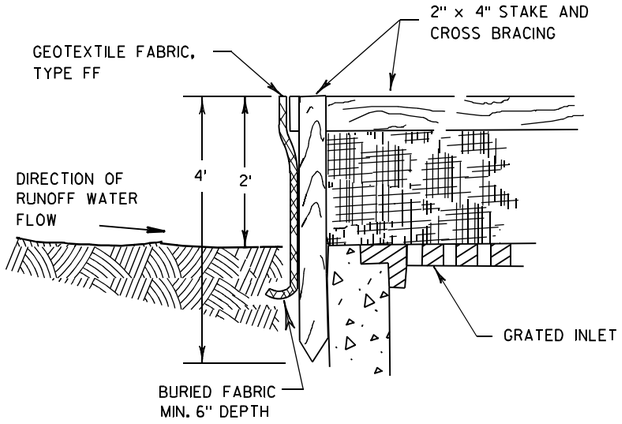
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

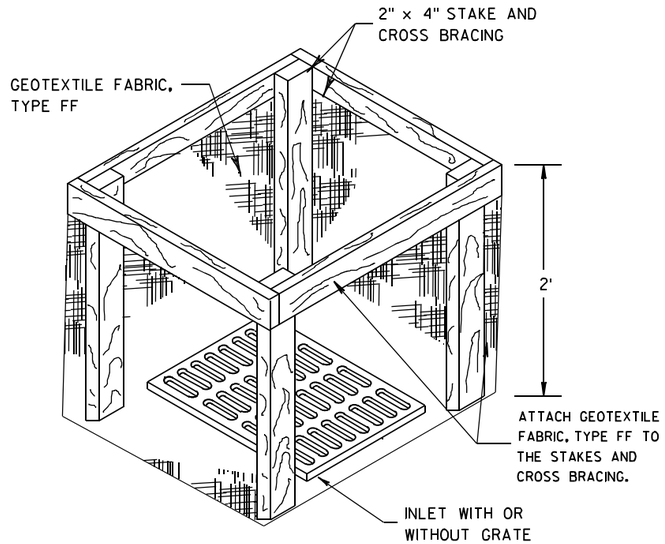
6

S.D.D. 8 E 9-6

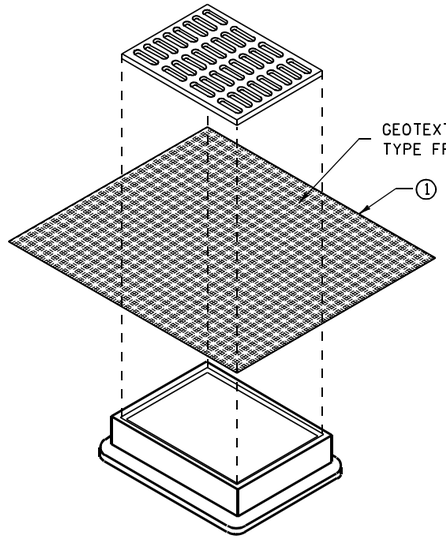
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S.D.D. 8 E 9-6



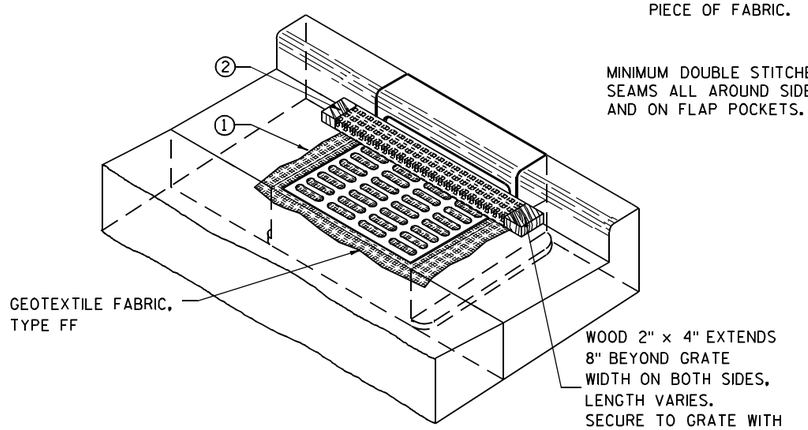


INLET PROTECTION, TYPE A

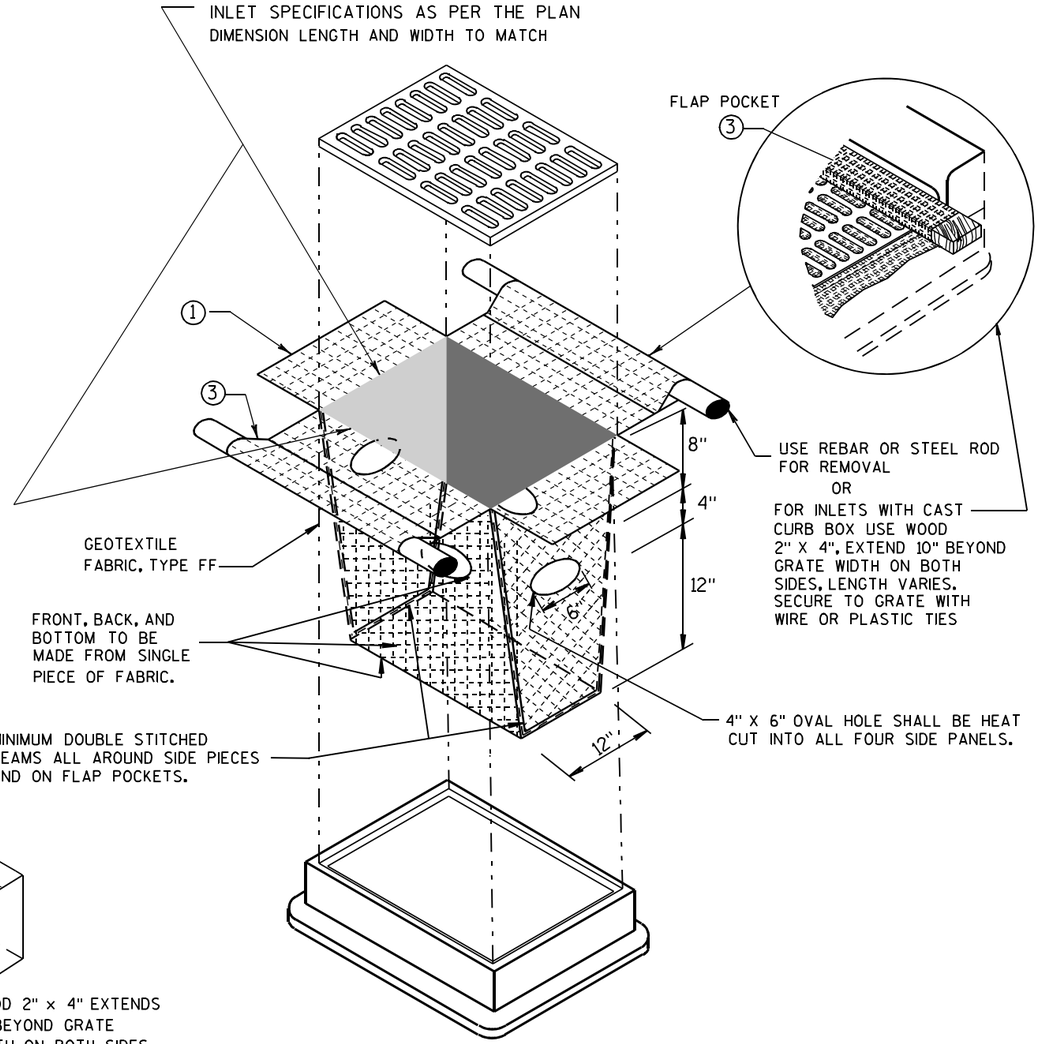


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

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.

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 A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

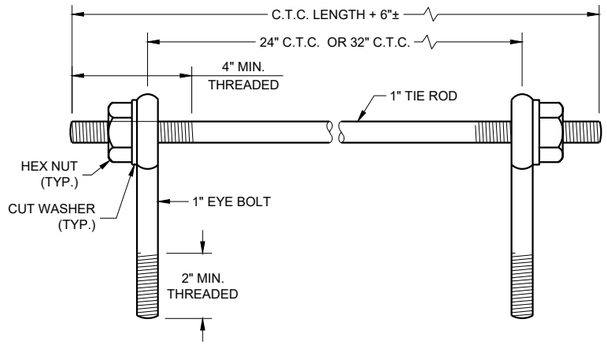
10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

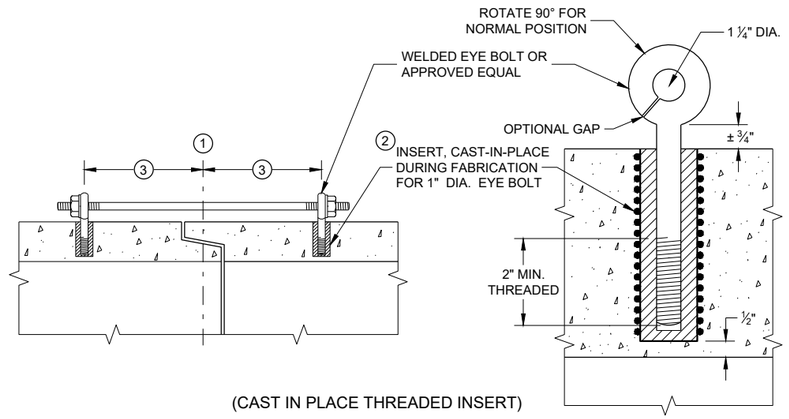
FHWA

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S.D.D. 8 E 10-2



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

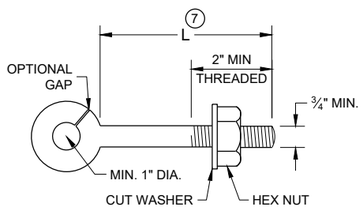
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

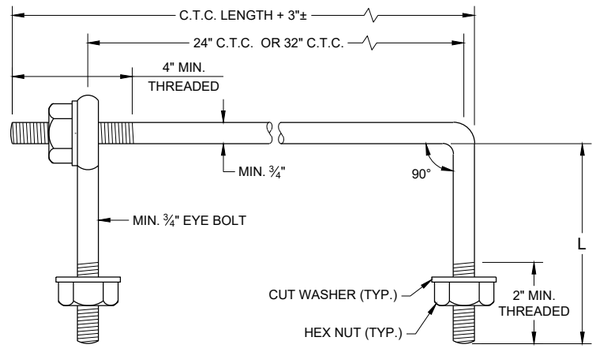
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

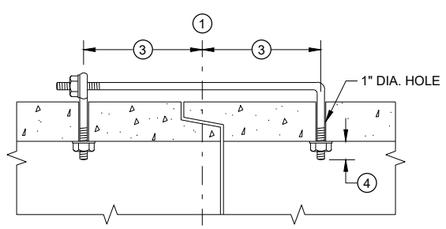


EYE BOLT (7)

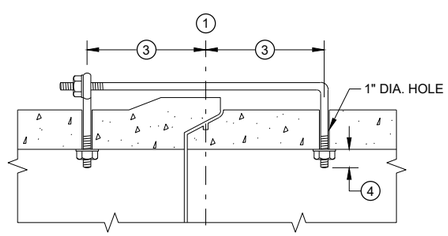
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

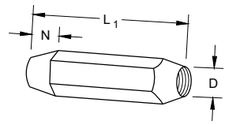
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

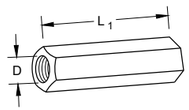
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



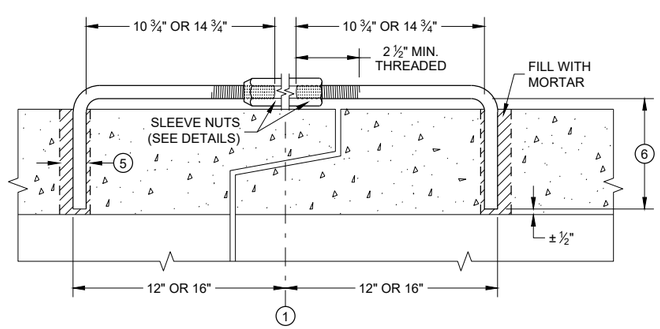
TAPERED



PLAIN

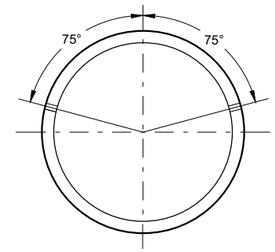
RIGHT AND LEFT THREADS

SLEEVE NUTS



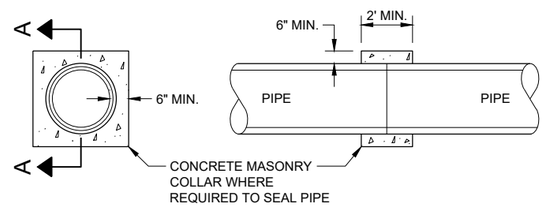
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

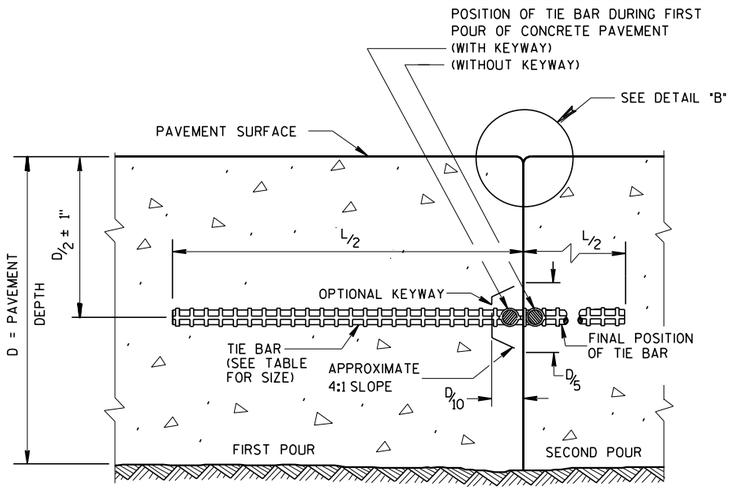
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

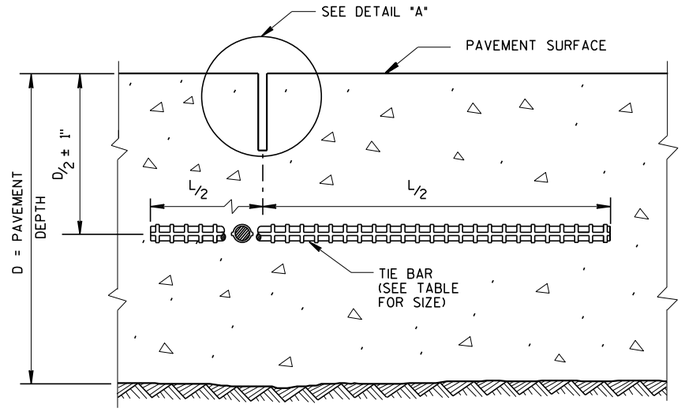
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

SDD 08F04 - 08



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

DETAIL "C"

TIE BAR TABLE

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

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

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

PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

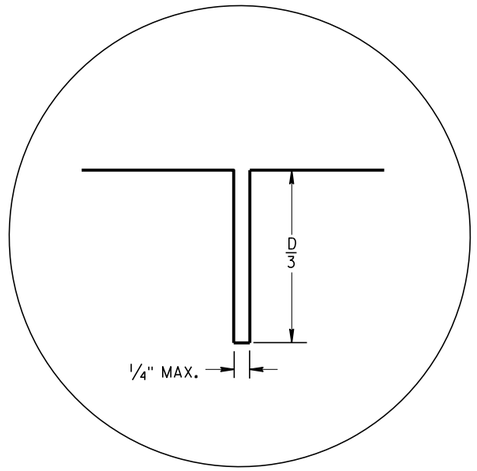
APPROVED
March 2018
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPE
FHWA

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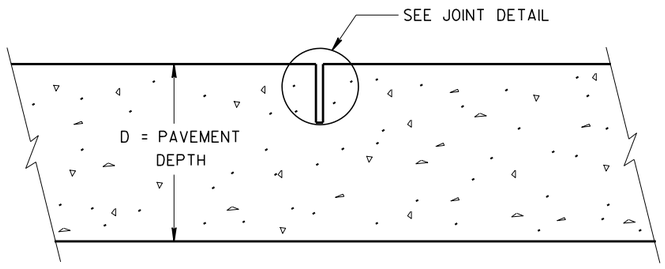
S.D.D. 13 C 1-19

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S.D.D. 13 C 1-19



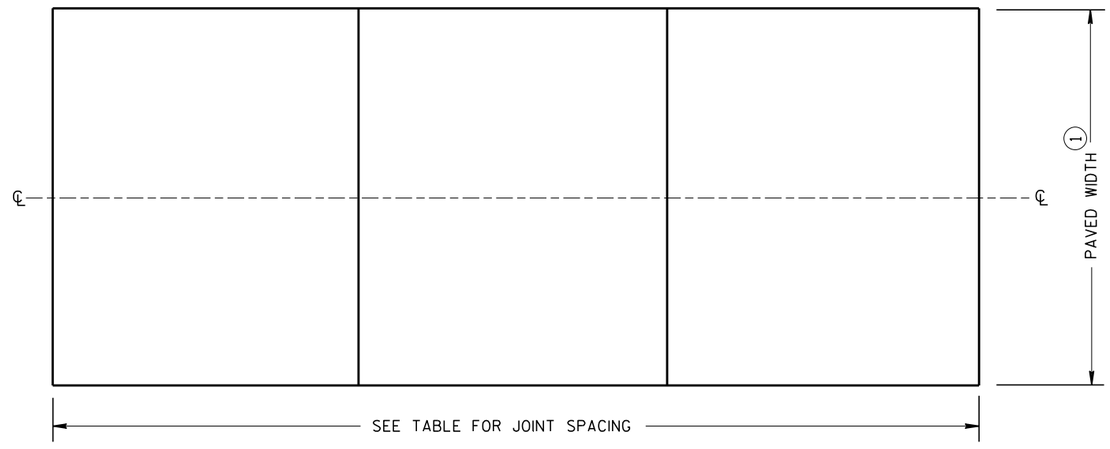
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION JOINTS

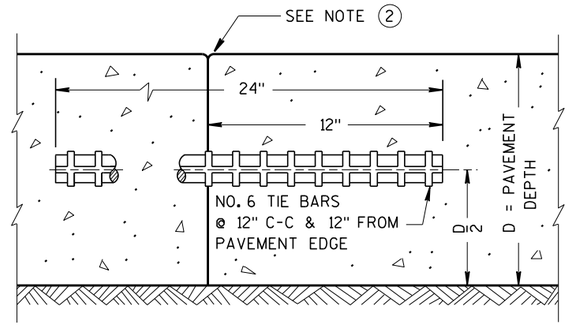
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

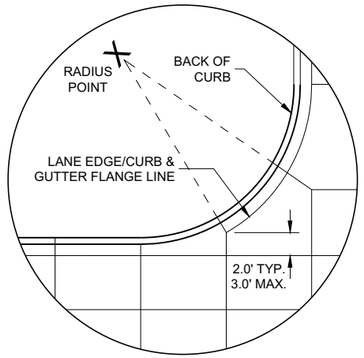
URBAN
NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

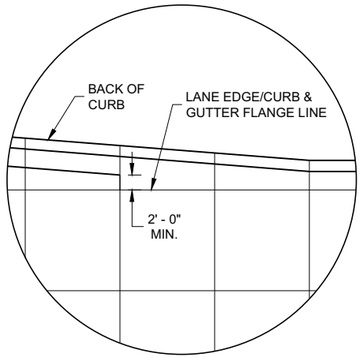
APPROVED
March 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPI
FHWA

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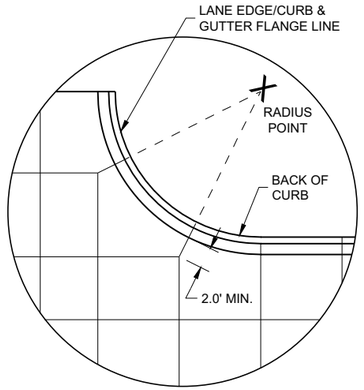
S.D.D. 13 C 4-17



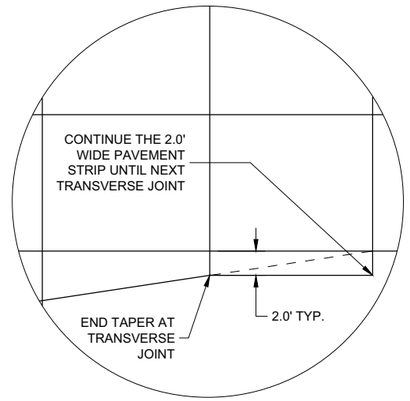
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

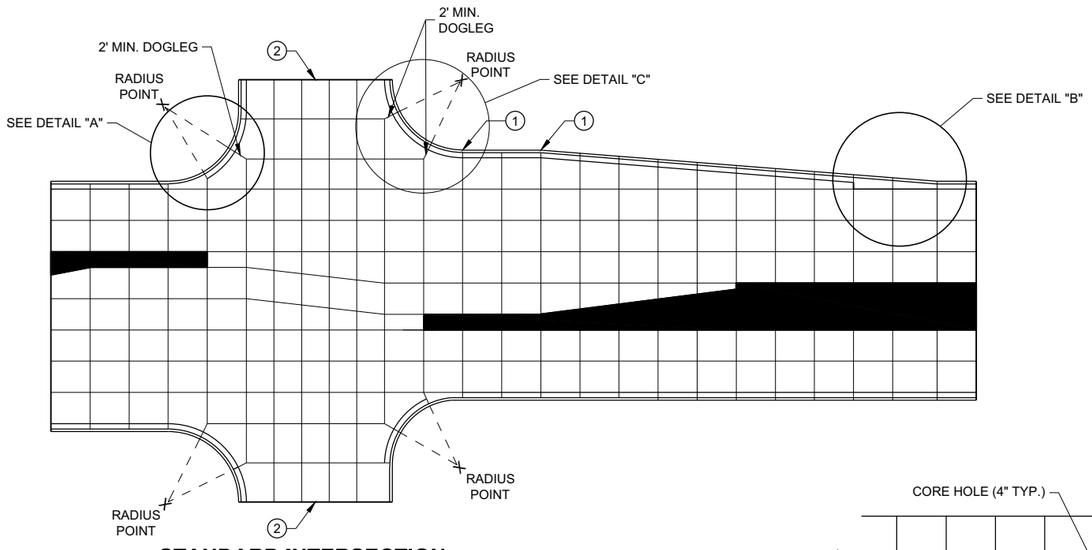
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

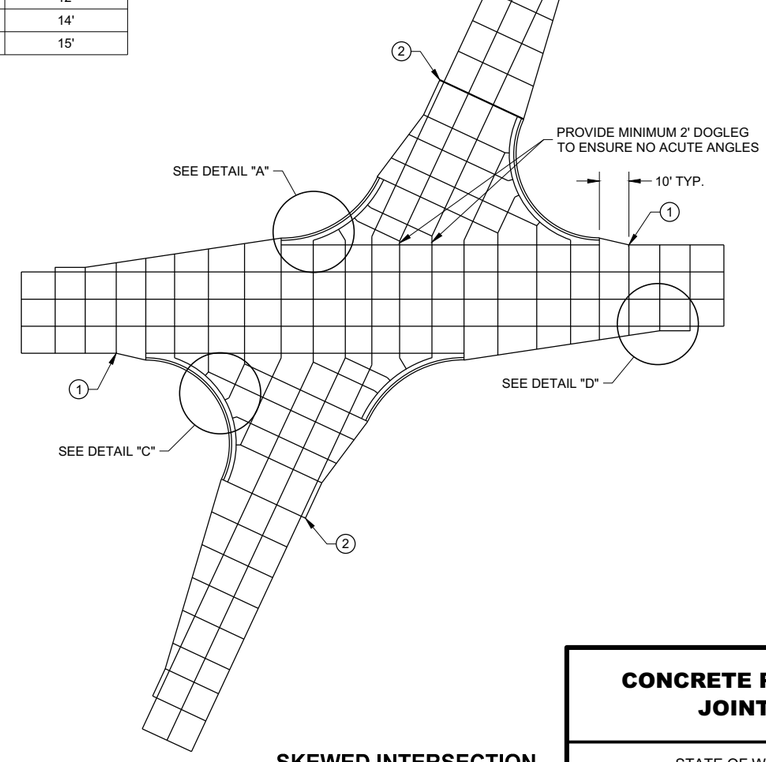
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



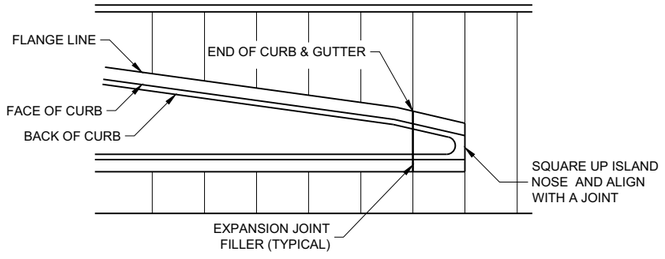
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

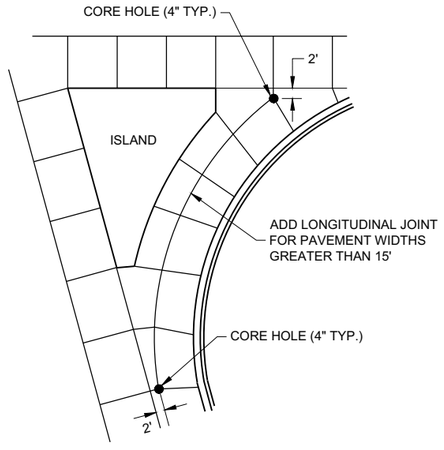
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



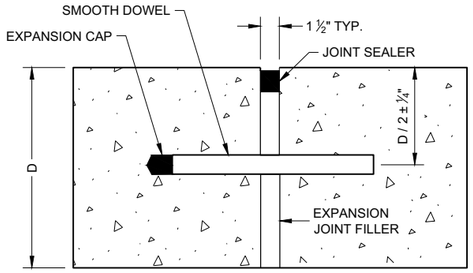
LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

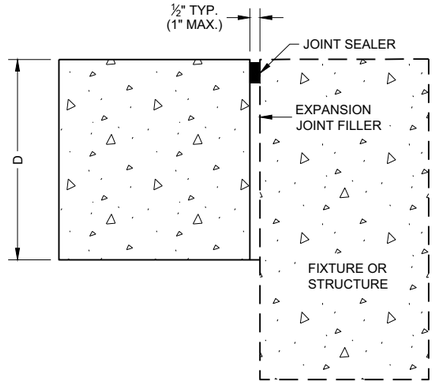
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13C18 - 07a

SDD 13C18 - 07a



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

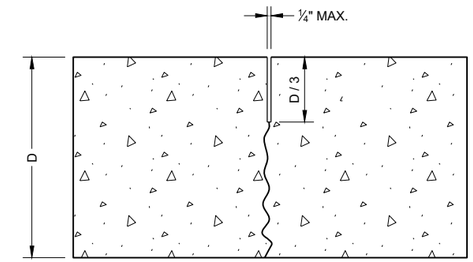
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

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

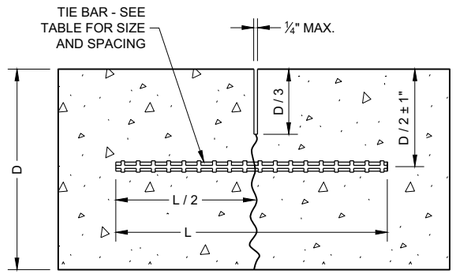
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

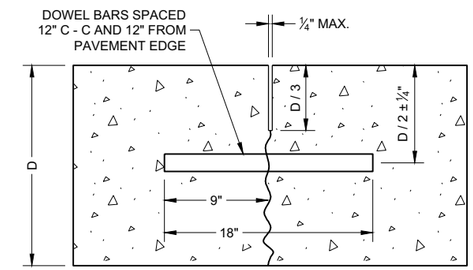
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

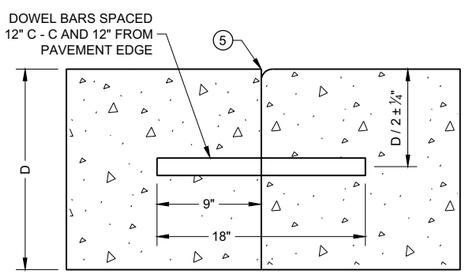


TIED LONGITUDINAL

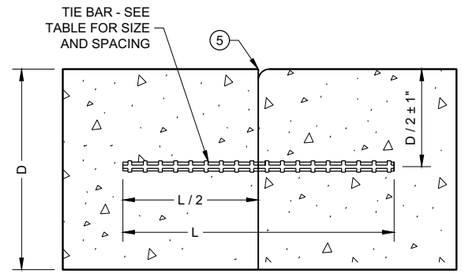


DOWELED TRANSVERSE

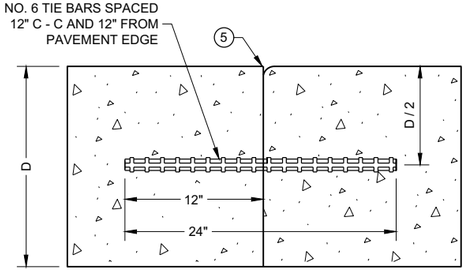
CONTRACTION JOINTS (2)



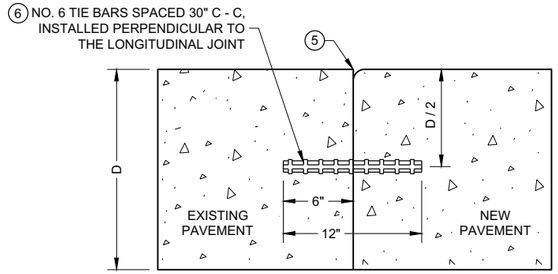
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

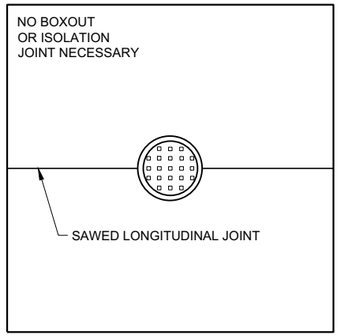
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

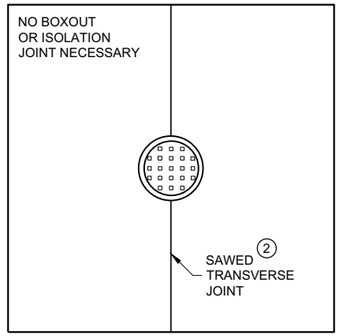
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

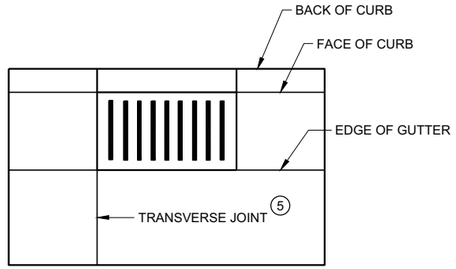
SDD 13C18 - 07c
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



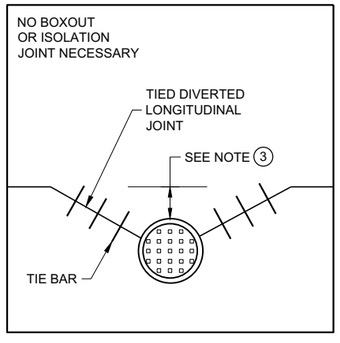
MANHOLE WITH TRANSVERSE JOINT



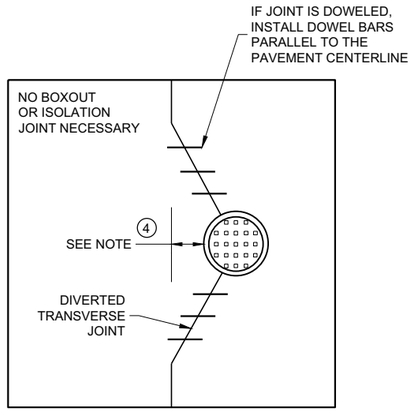
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

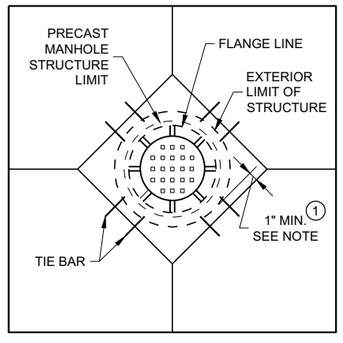
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

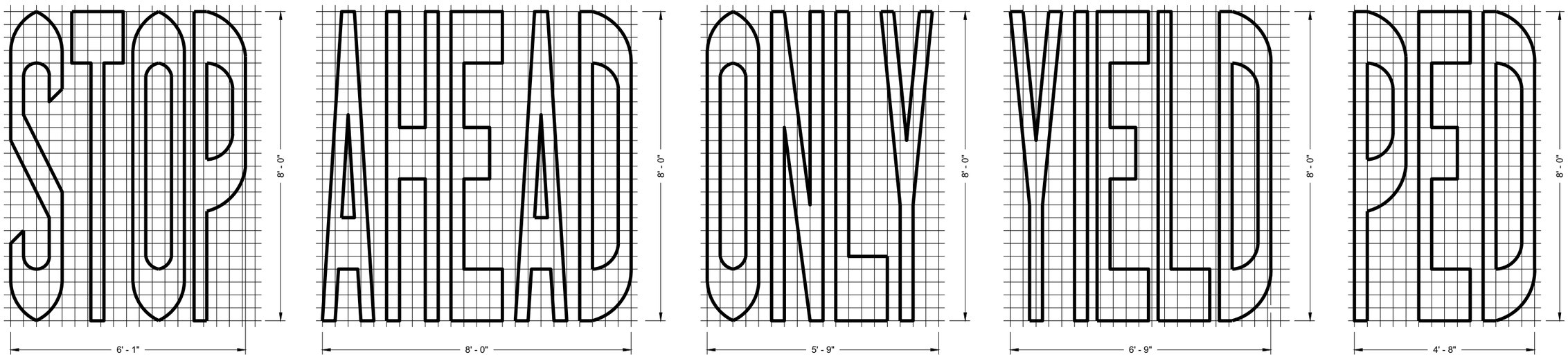
APPROVED
November 2018
DATE

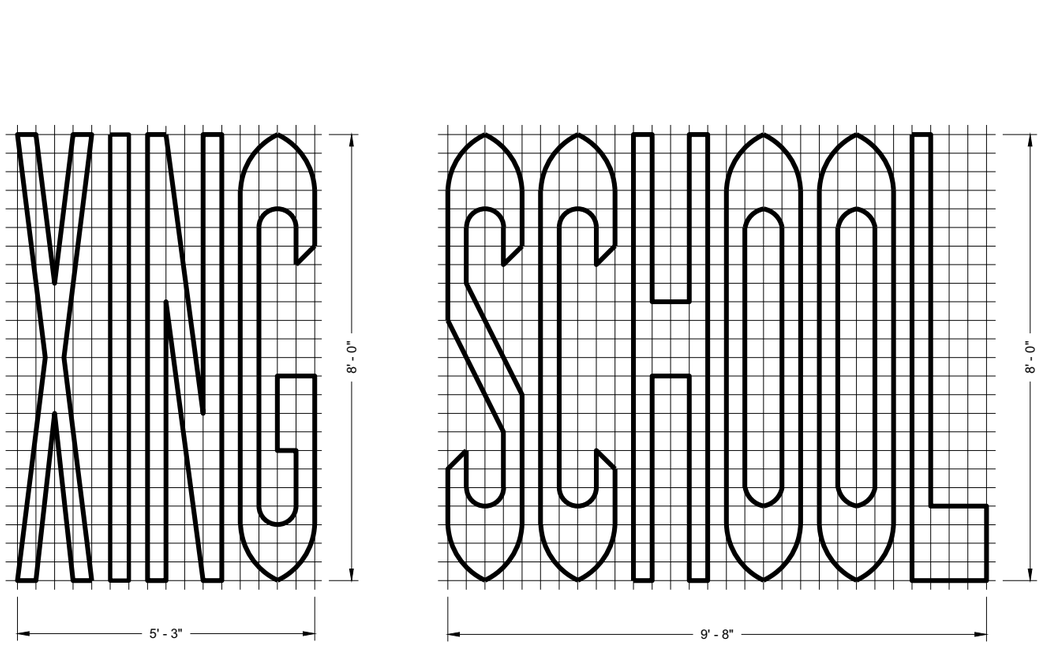
/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

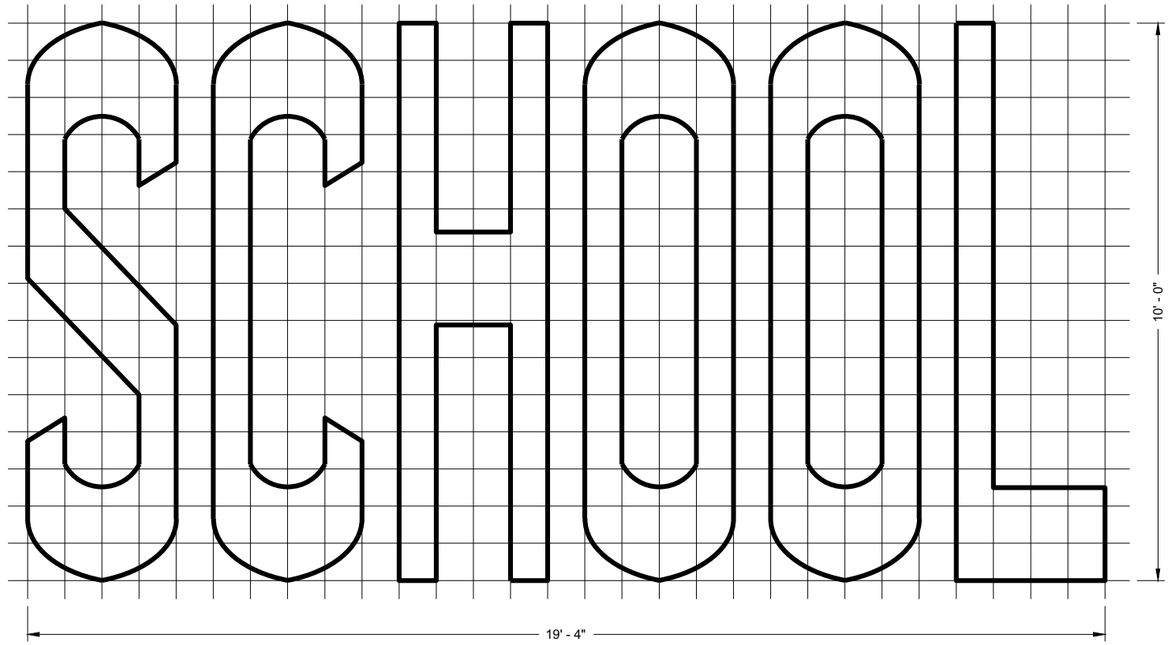
6

SDD 13C18 - 07d





SINGLE LANE



TWO - LANE

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 WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

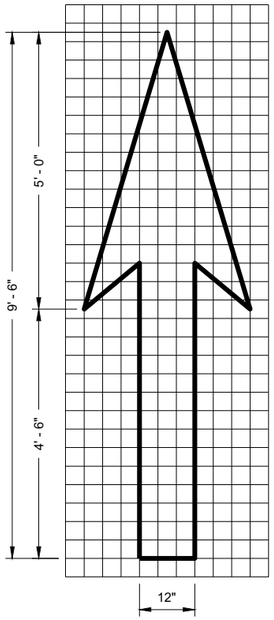
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SDD 15C07 - 15b

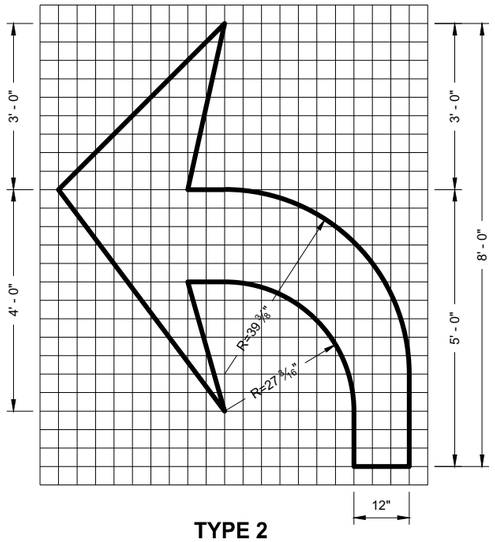
SDD 15C07 - 15b

GENERAL NOTES

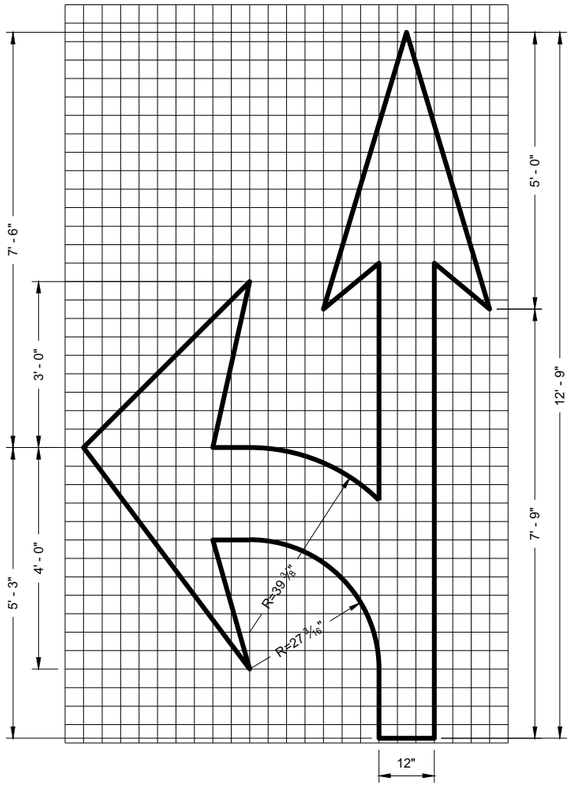
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



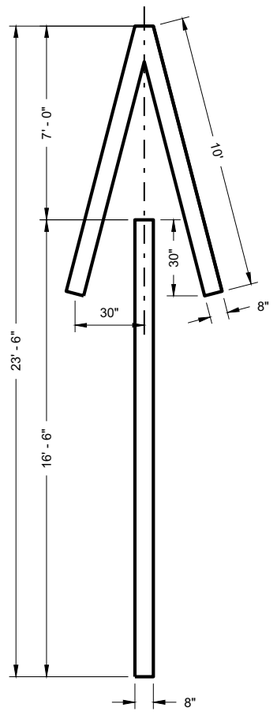
TYPE 1



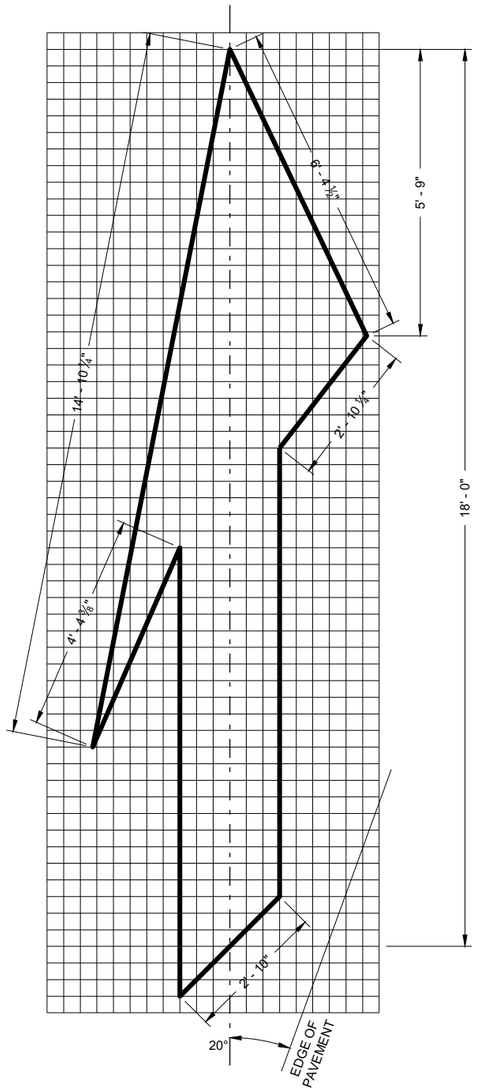
TYPE 2



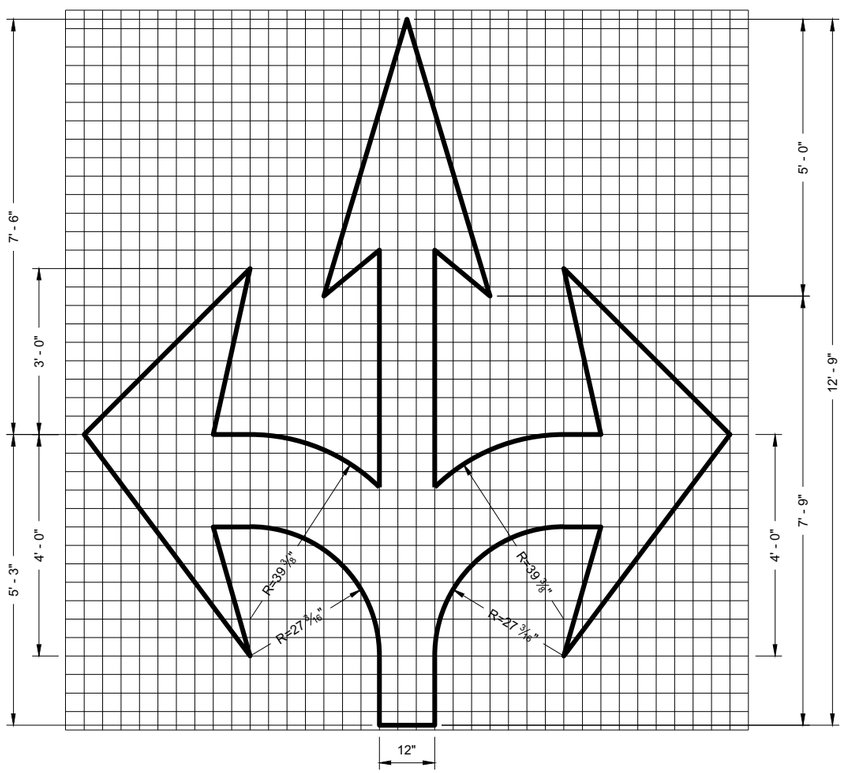
TYPE 3



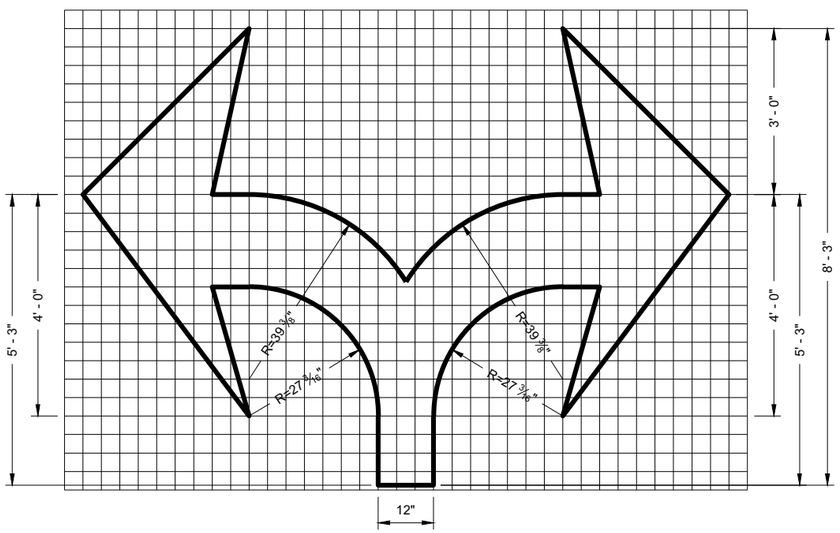
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

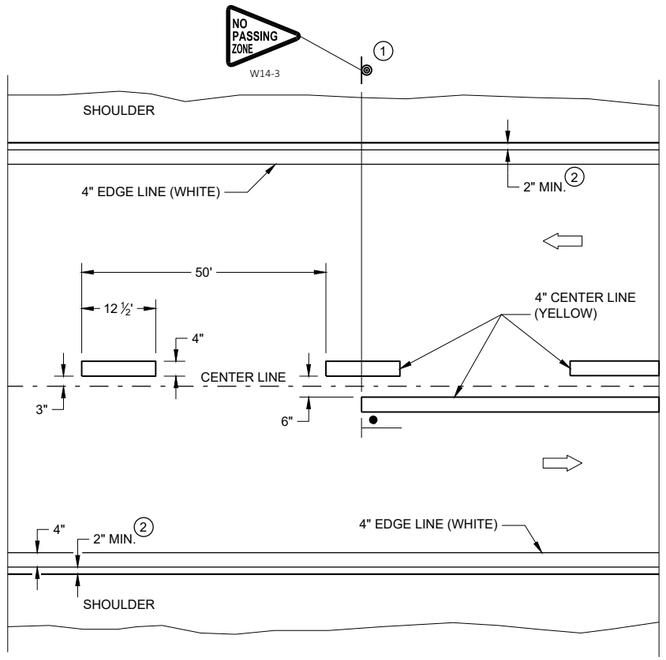
FHWA

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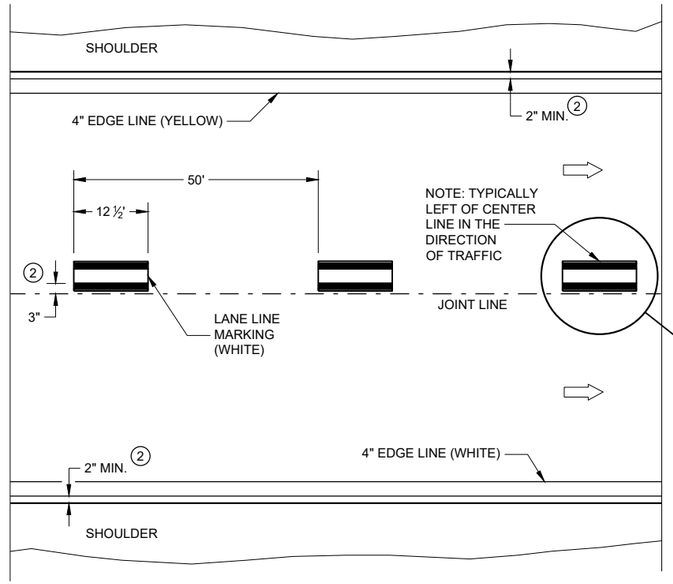
SDD 15C07 - 15c

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SDD 15C07 - 15c

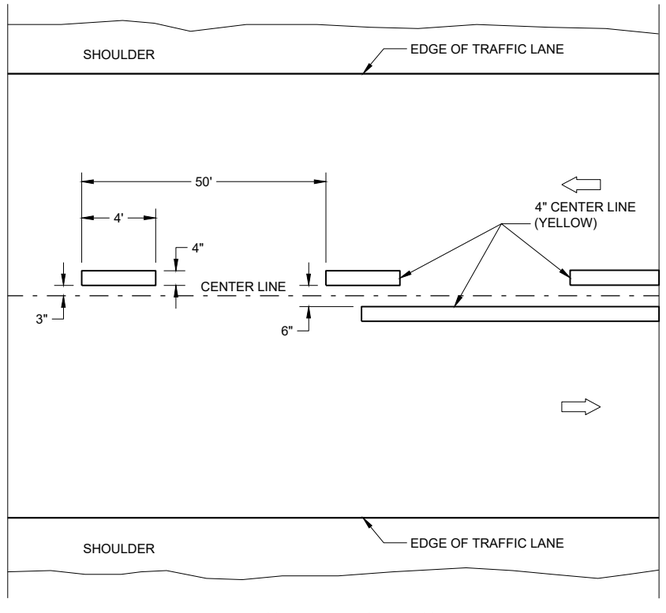


TWO WAY TRAFFIC

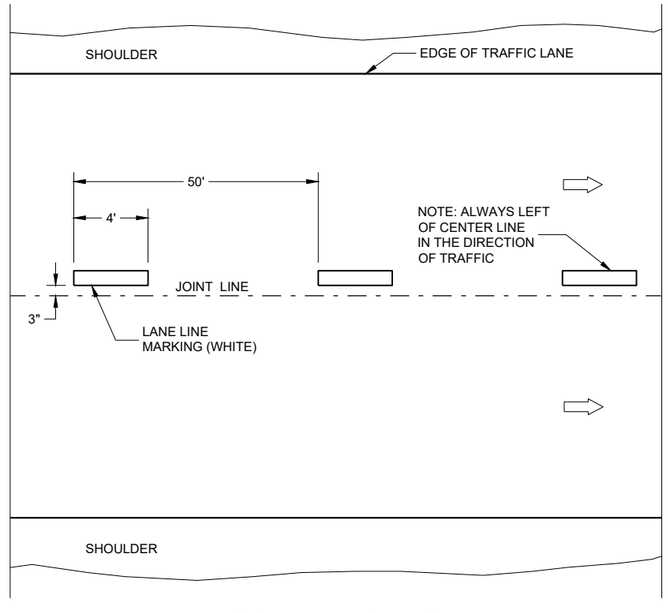


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

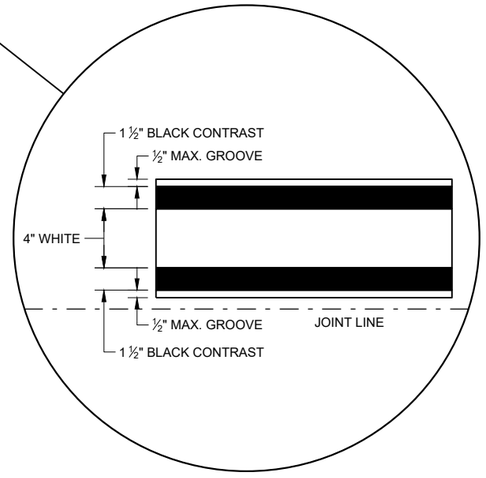
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

FHWA

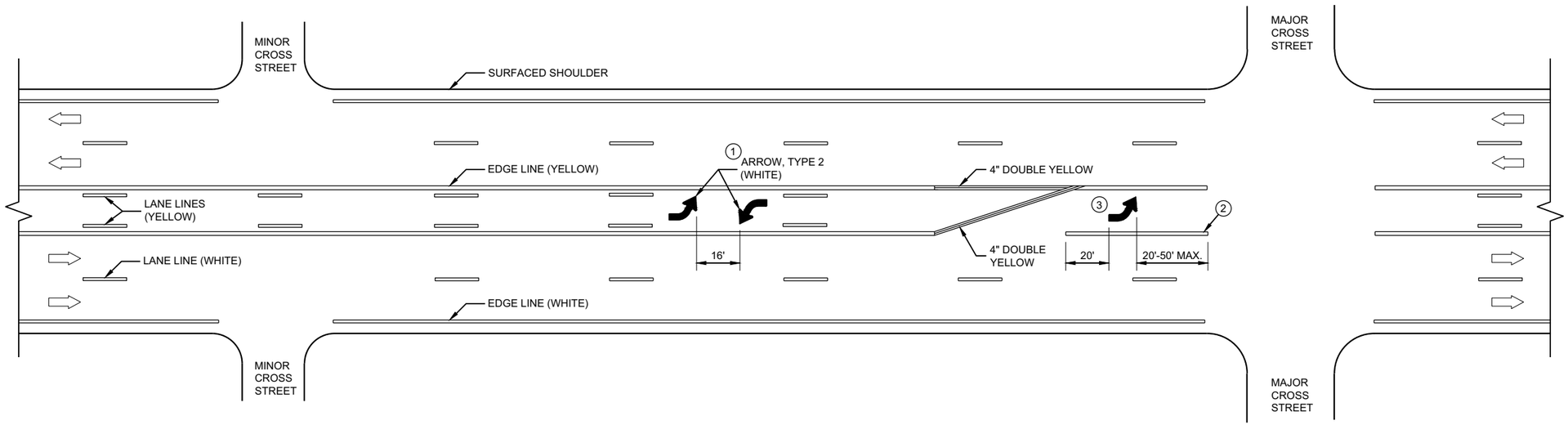
SDD 15C08 - 20a

SDD 15C08 - 20a

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

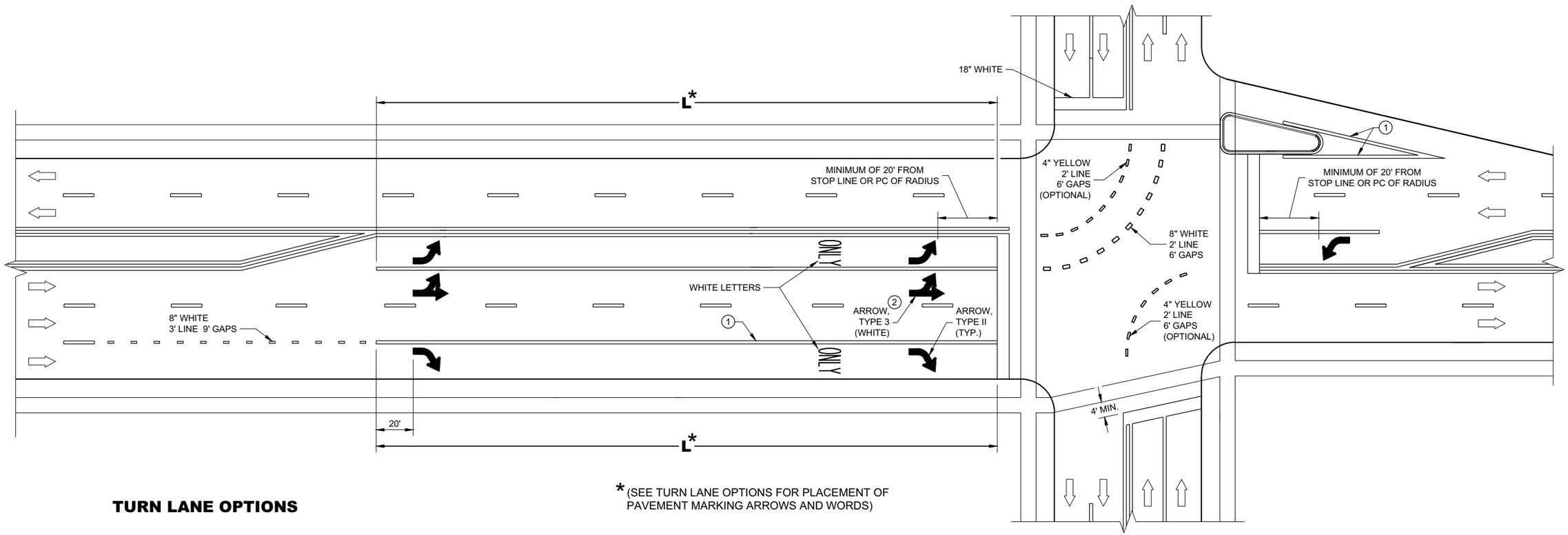
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SDD 15C08 - 20b

SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

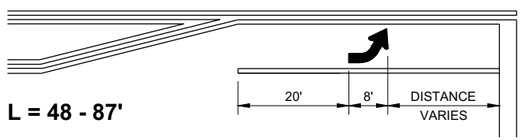
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



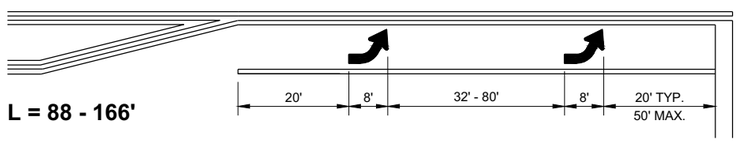
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

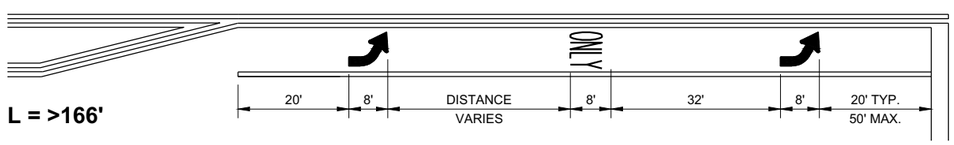
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

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)

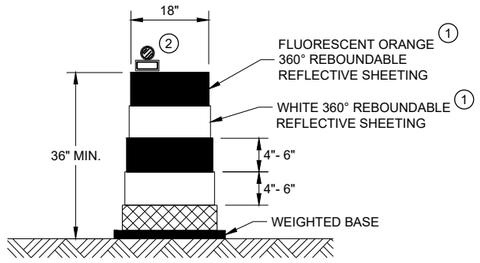
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

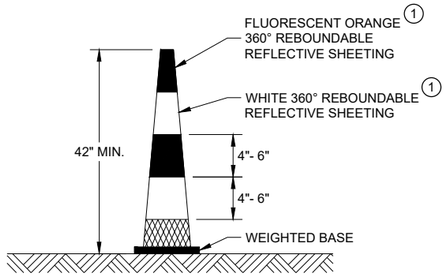
SDD 15C08 - 20c

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.

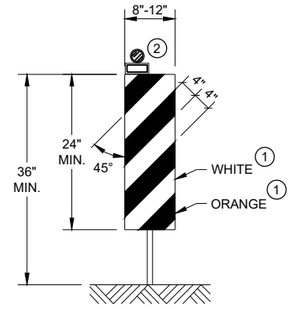


DRUM



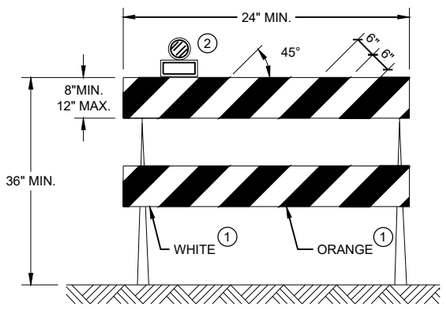
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



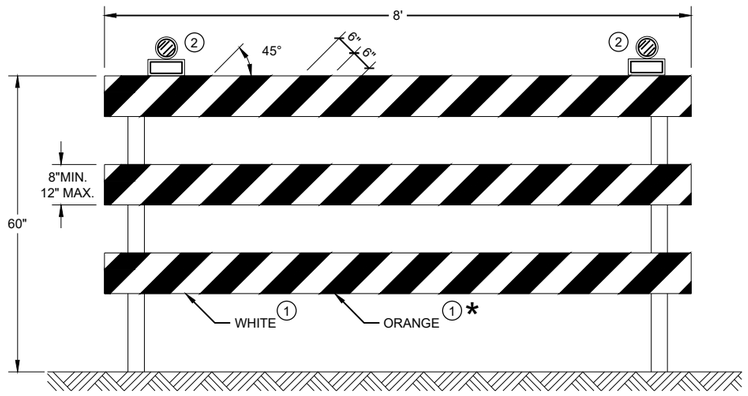
VERTICAL PANEL

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 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD15C11 - 09b

6

SDD15C11 - 09b

LEGEND

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

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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 TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

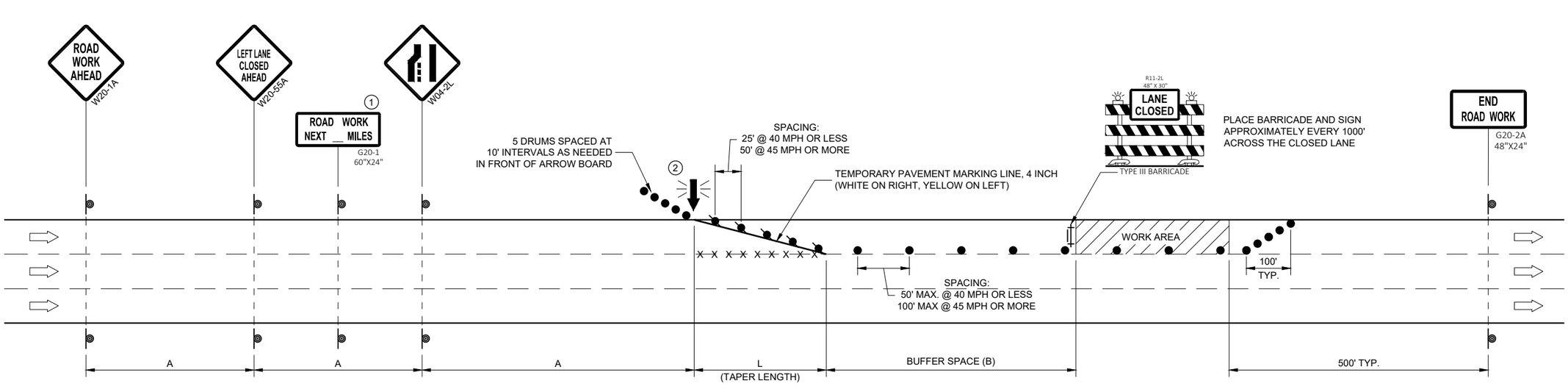
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

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

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

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

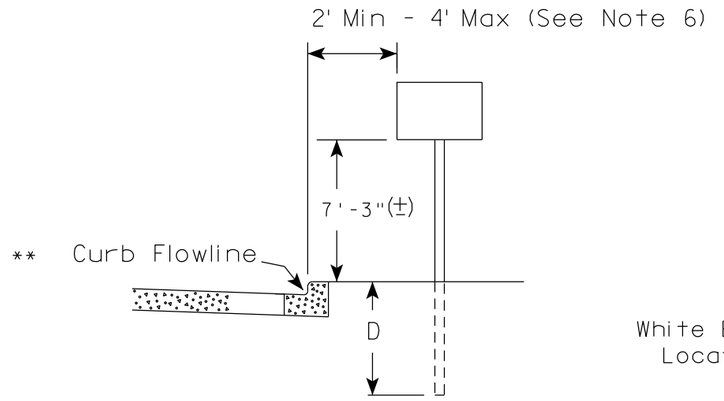
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

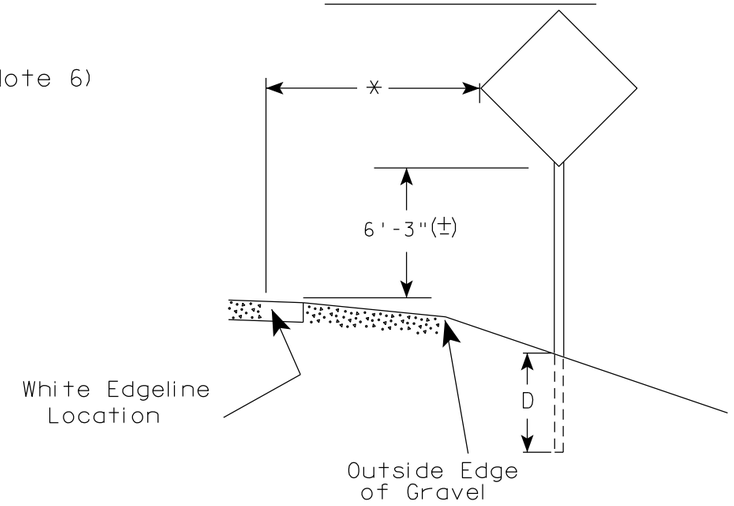
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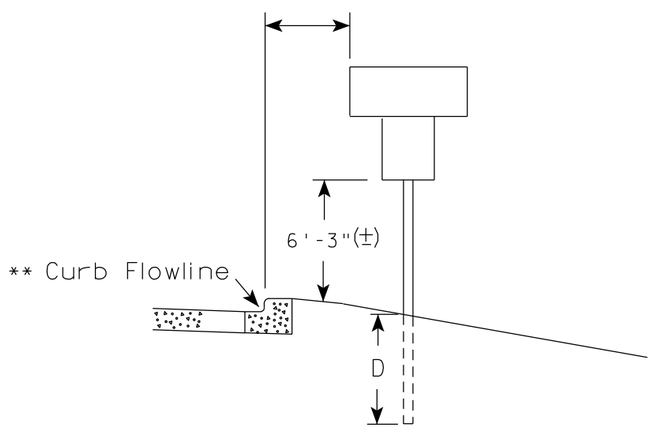
SDD15D20 - 06a

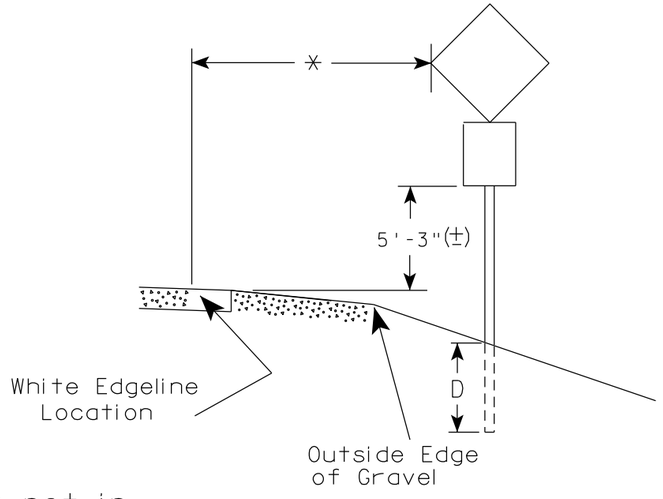
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

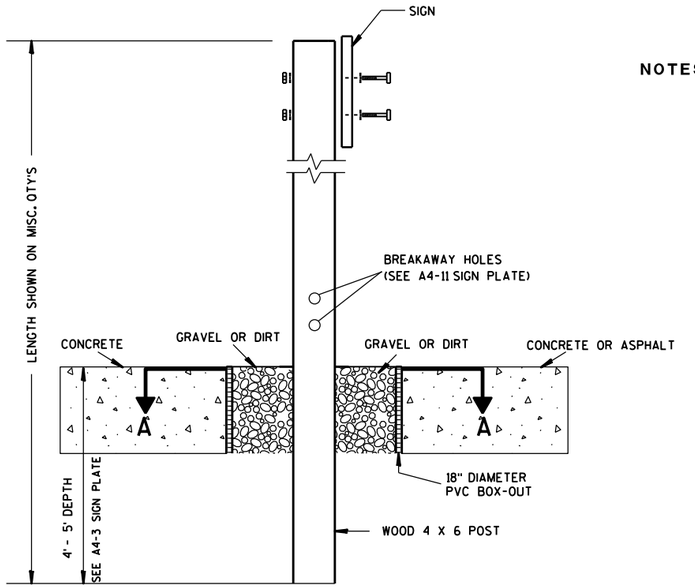
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

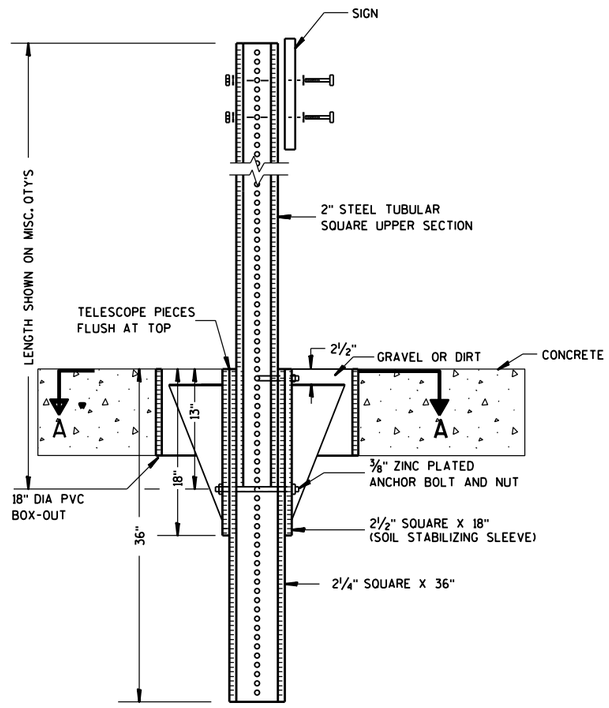
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 41	E



ELEVATION VIEW

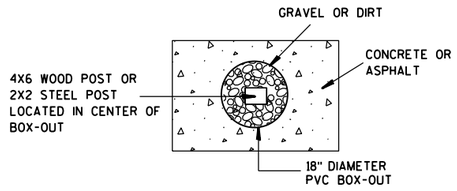
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

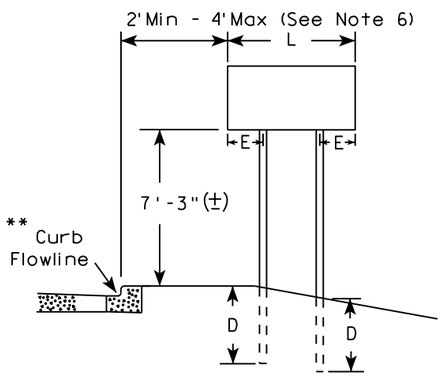
APPROVED Matthew R Rauch
for State Traffic Engineer

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

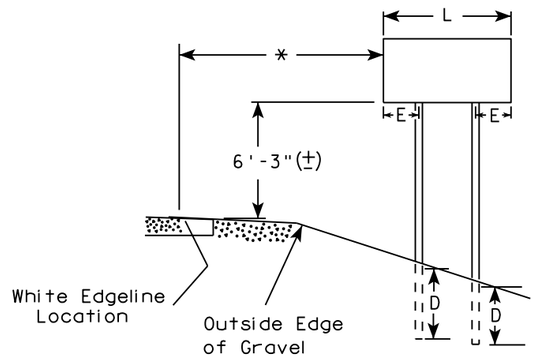
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

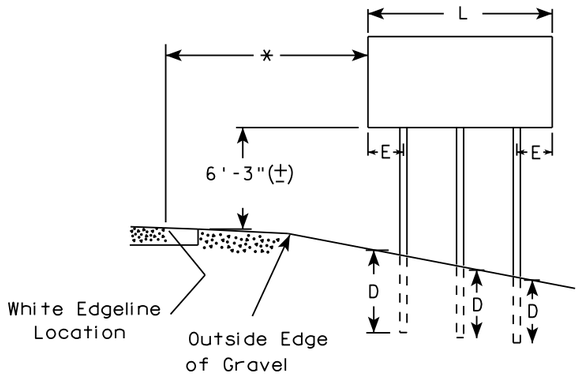
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

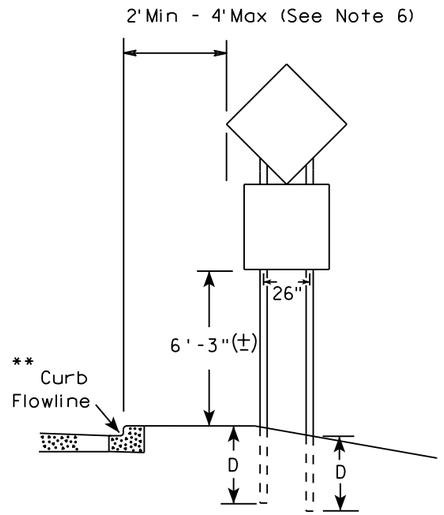
URBAN AREA



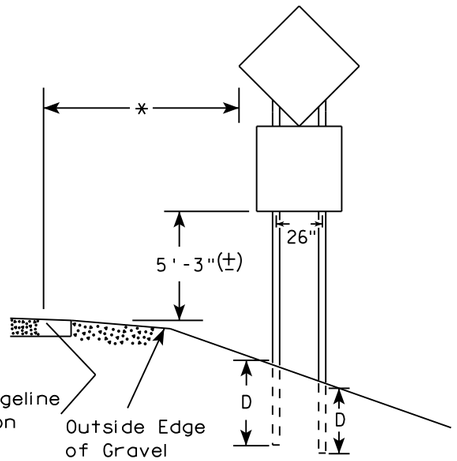
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

***

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

GENERAL NOTES

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

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

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

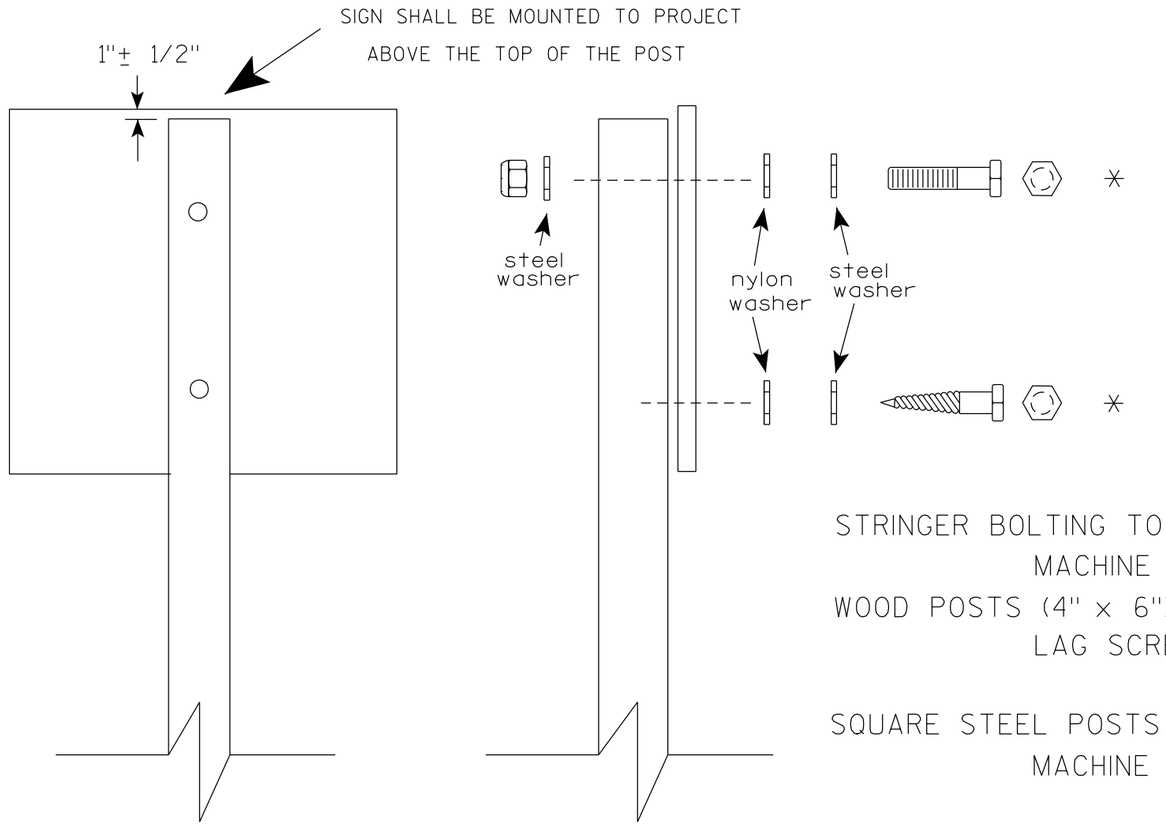
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 43	E



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

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

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

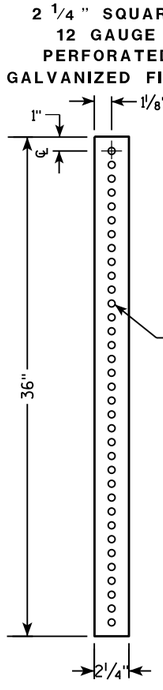
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

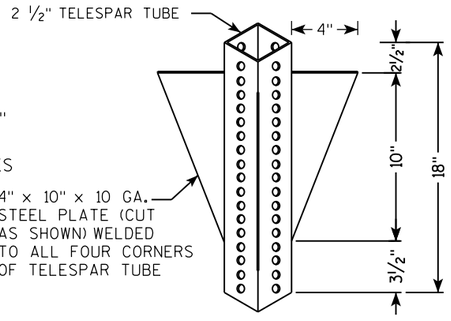
SHEET NO: 44 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

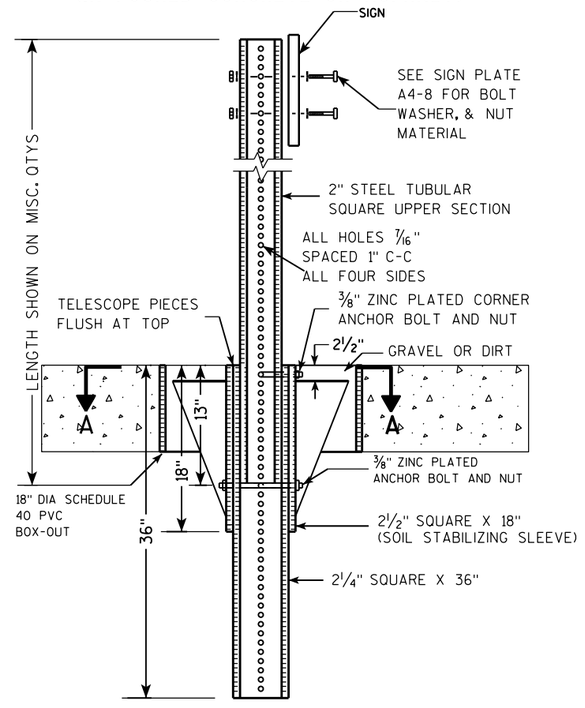
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



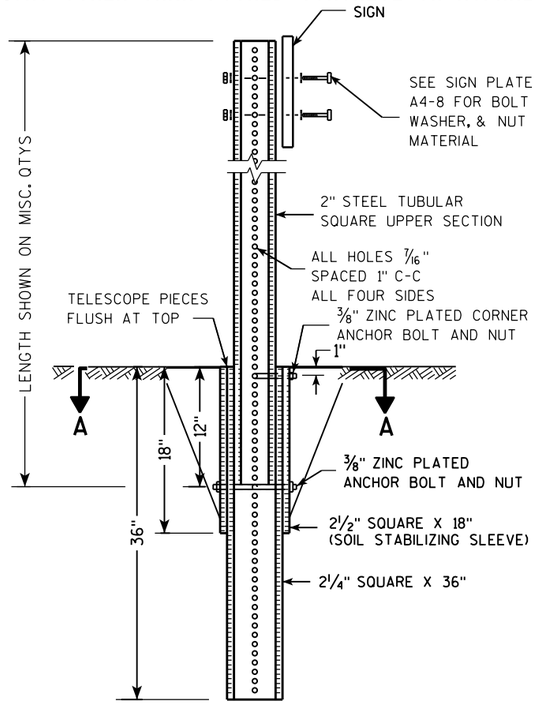
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

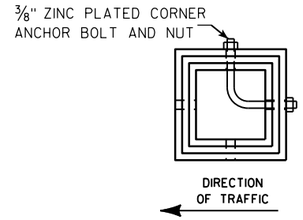


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

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

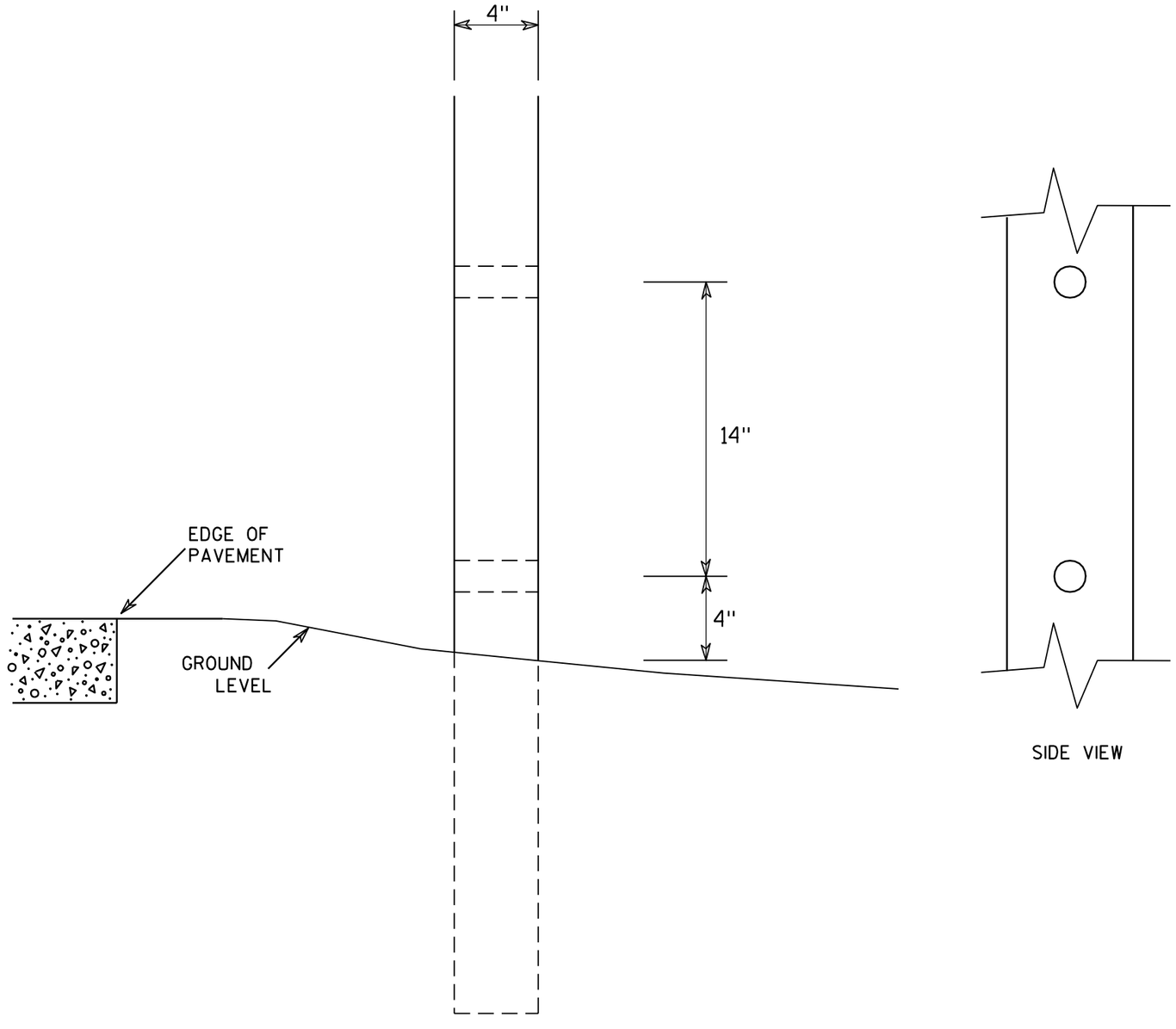
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 45 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

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

7

7

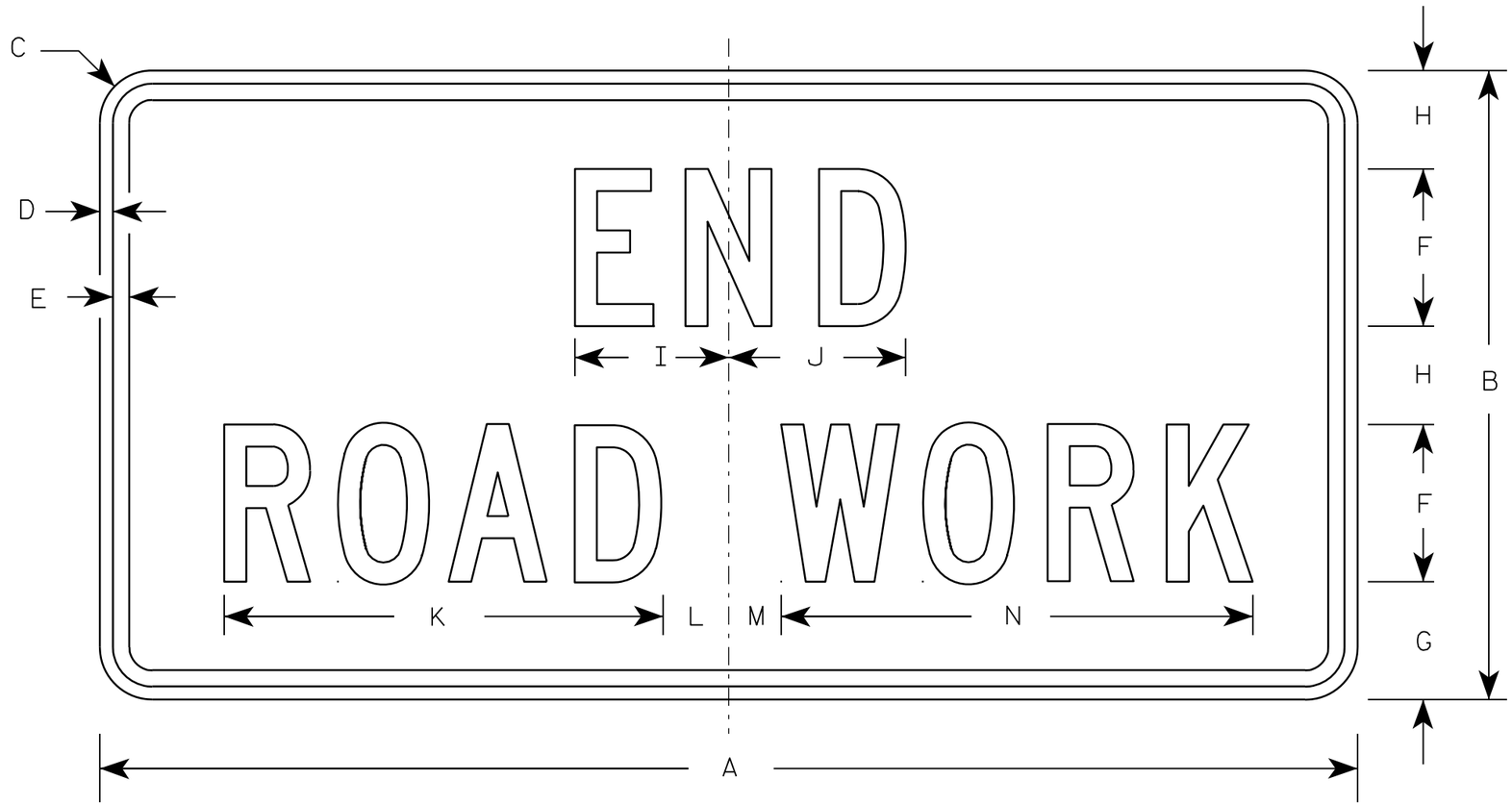
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 46	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

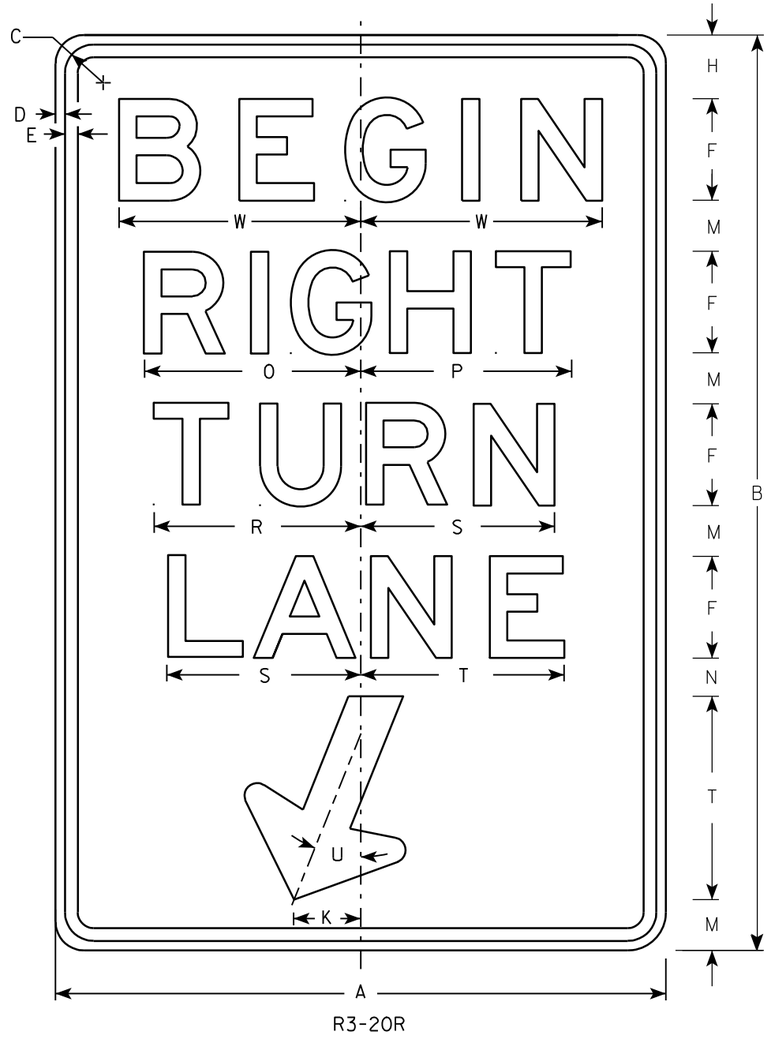
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

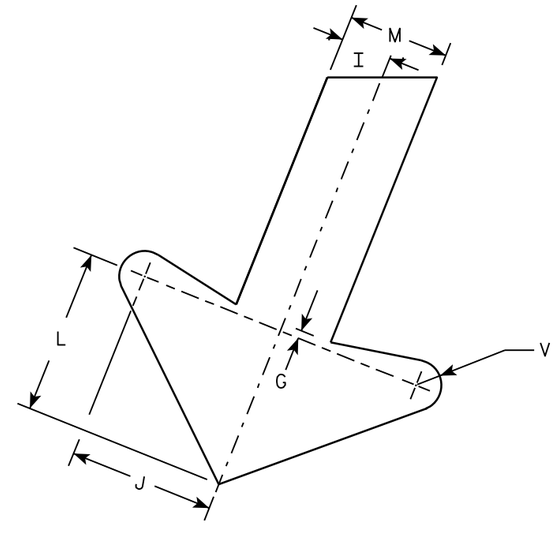
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 47	E



R3-20R

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

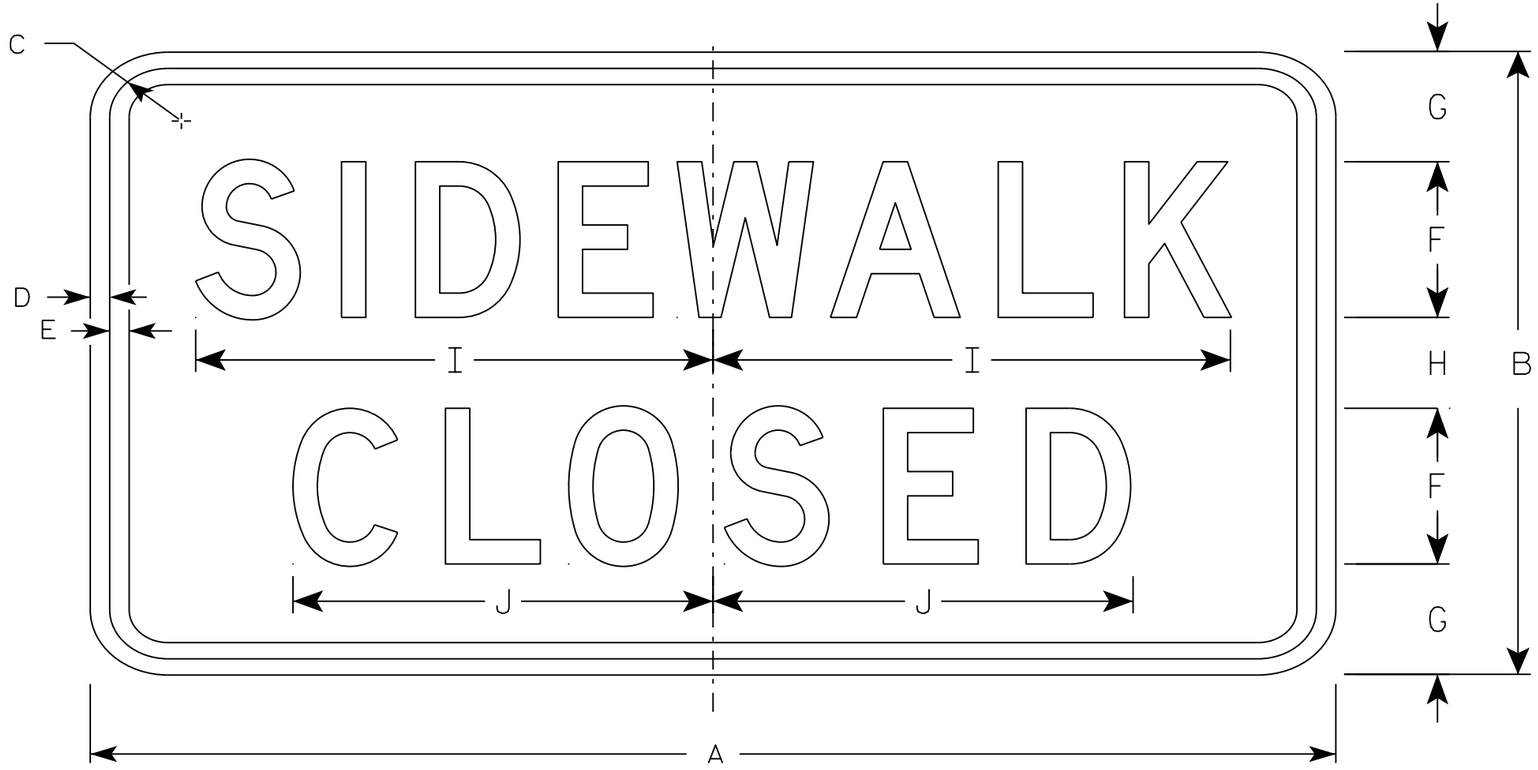
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 48 | E



R9-9

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

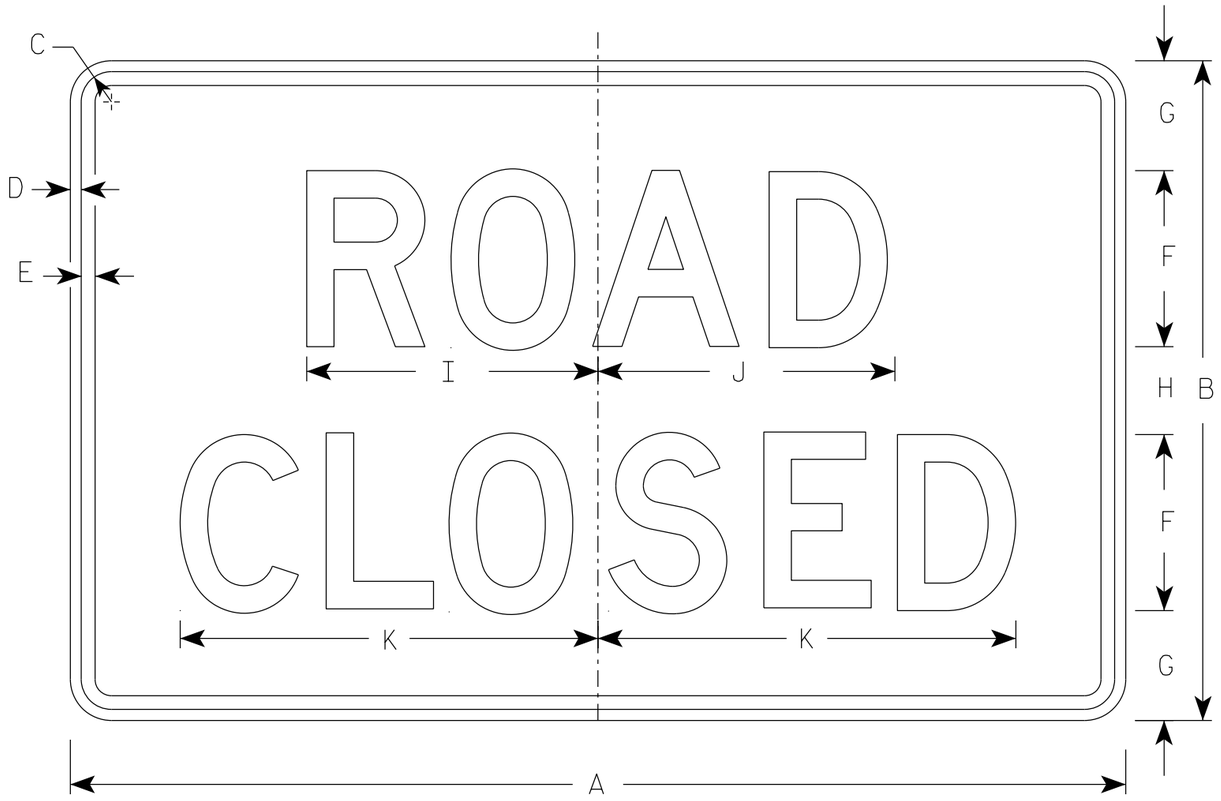
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 49 R9-9.6

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

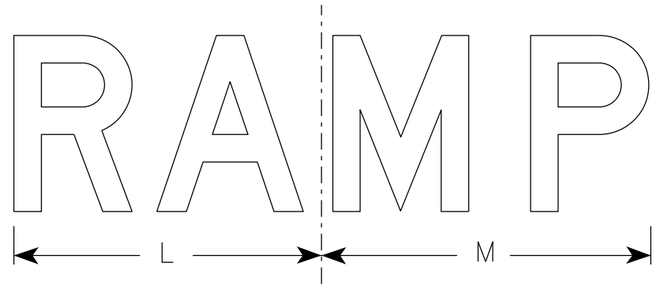
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



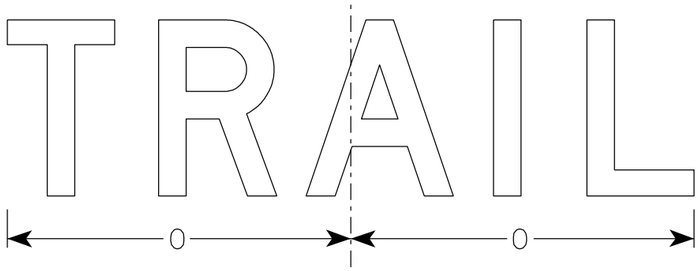
R11-2

NOTES

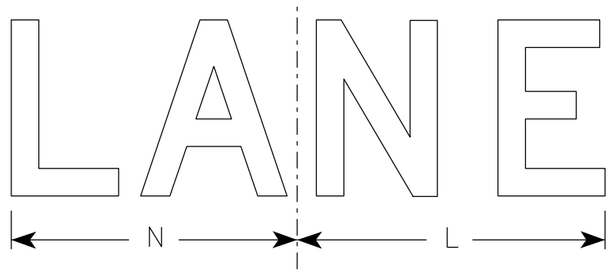
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the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



R11-2R



R11-2T



R11-2L

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

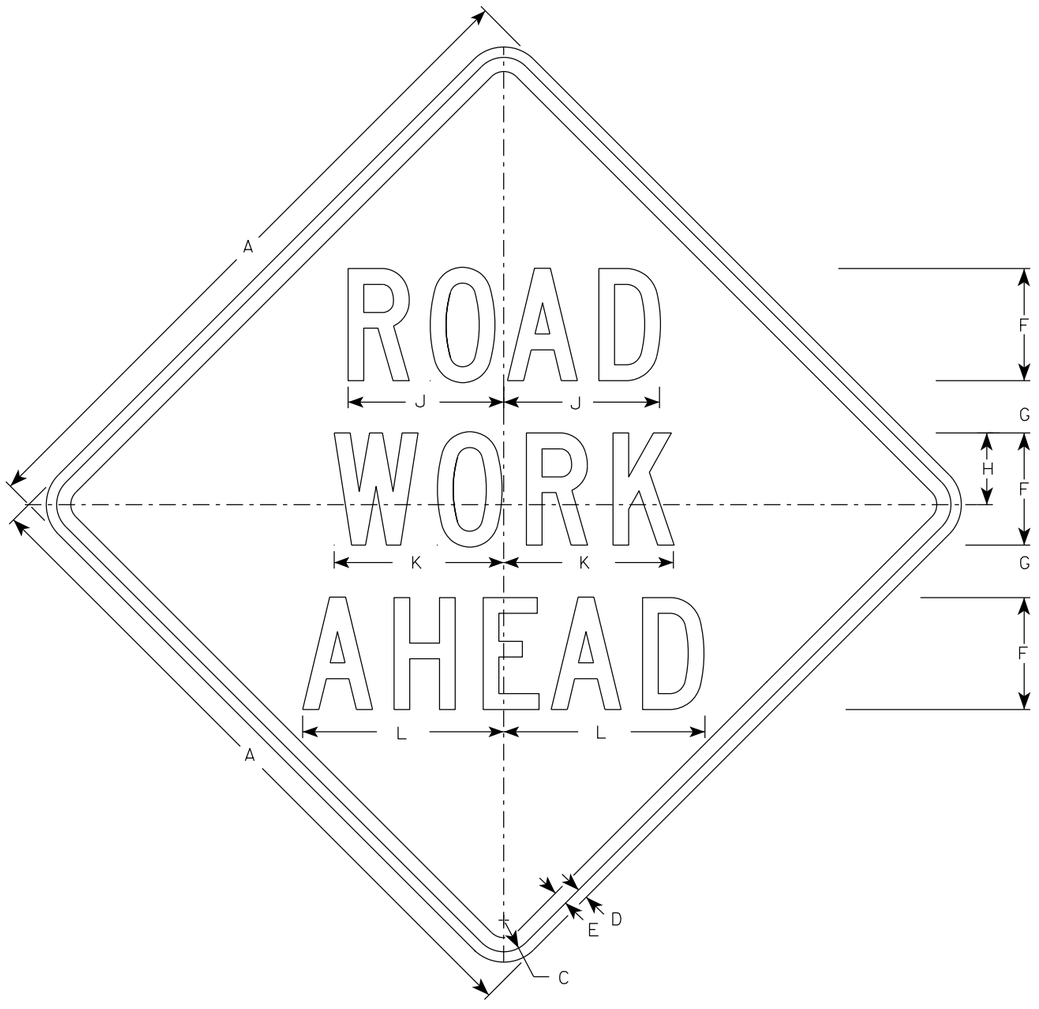
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

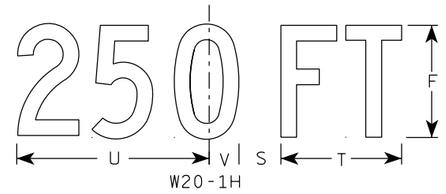
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

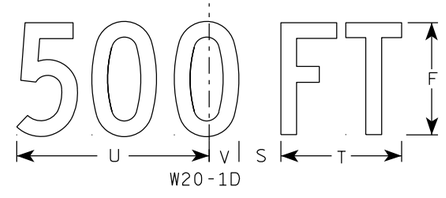
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 50	E



W20-1A



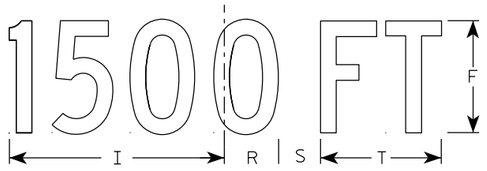
W20-1H



W20-1D



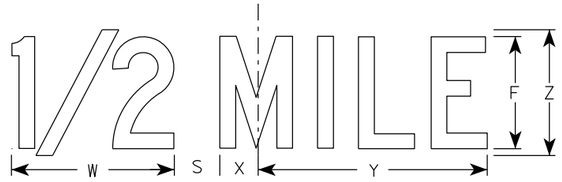
W20-1C



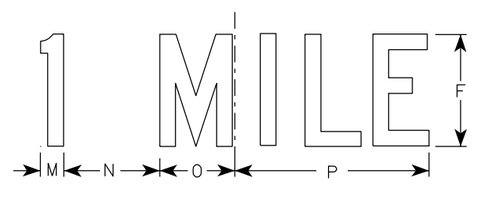
W20-1B

NOTES

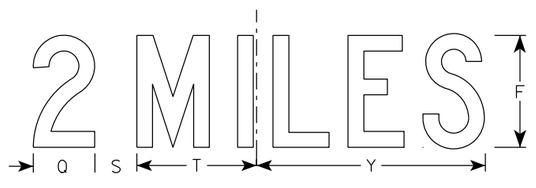
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

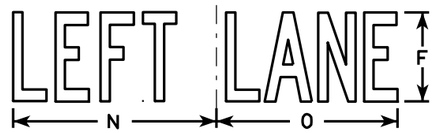
WISDOT/CADDS SHEET 42

7

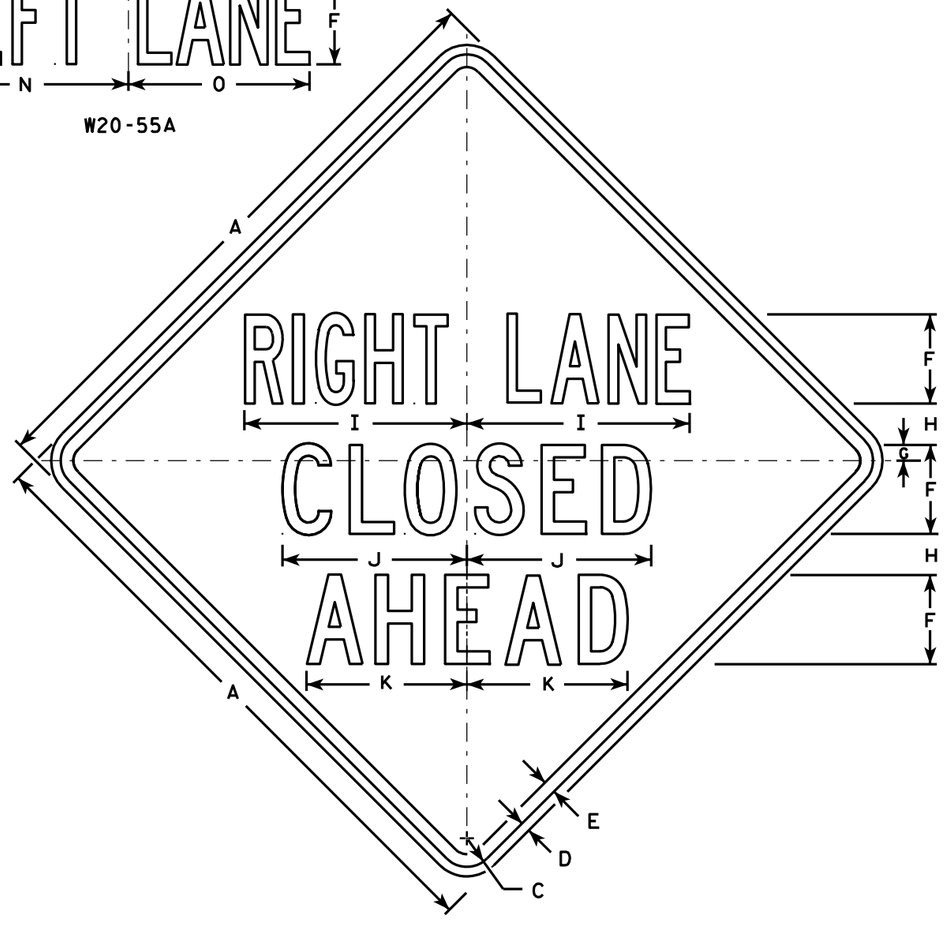
7



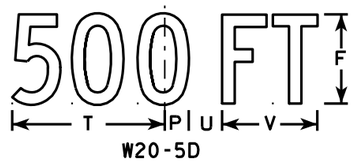
W20-56A



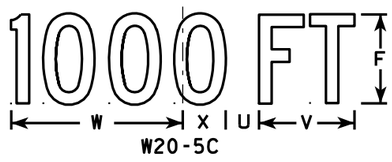
W20-55A



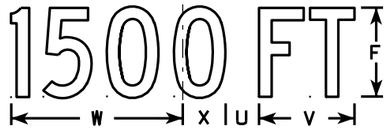
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

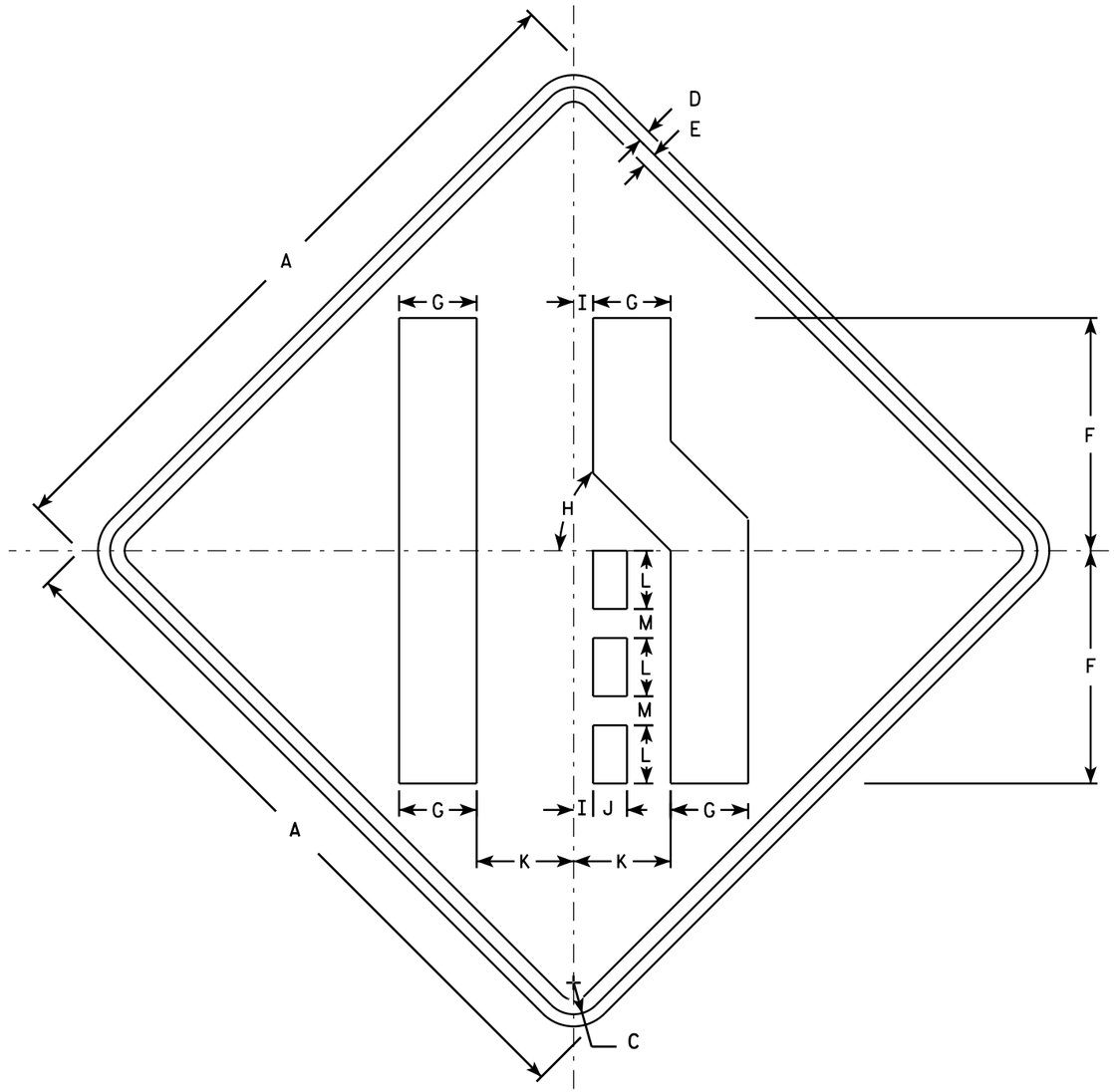
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 52 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

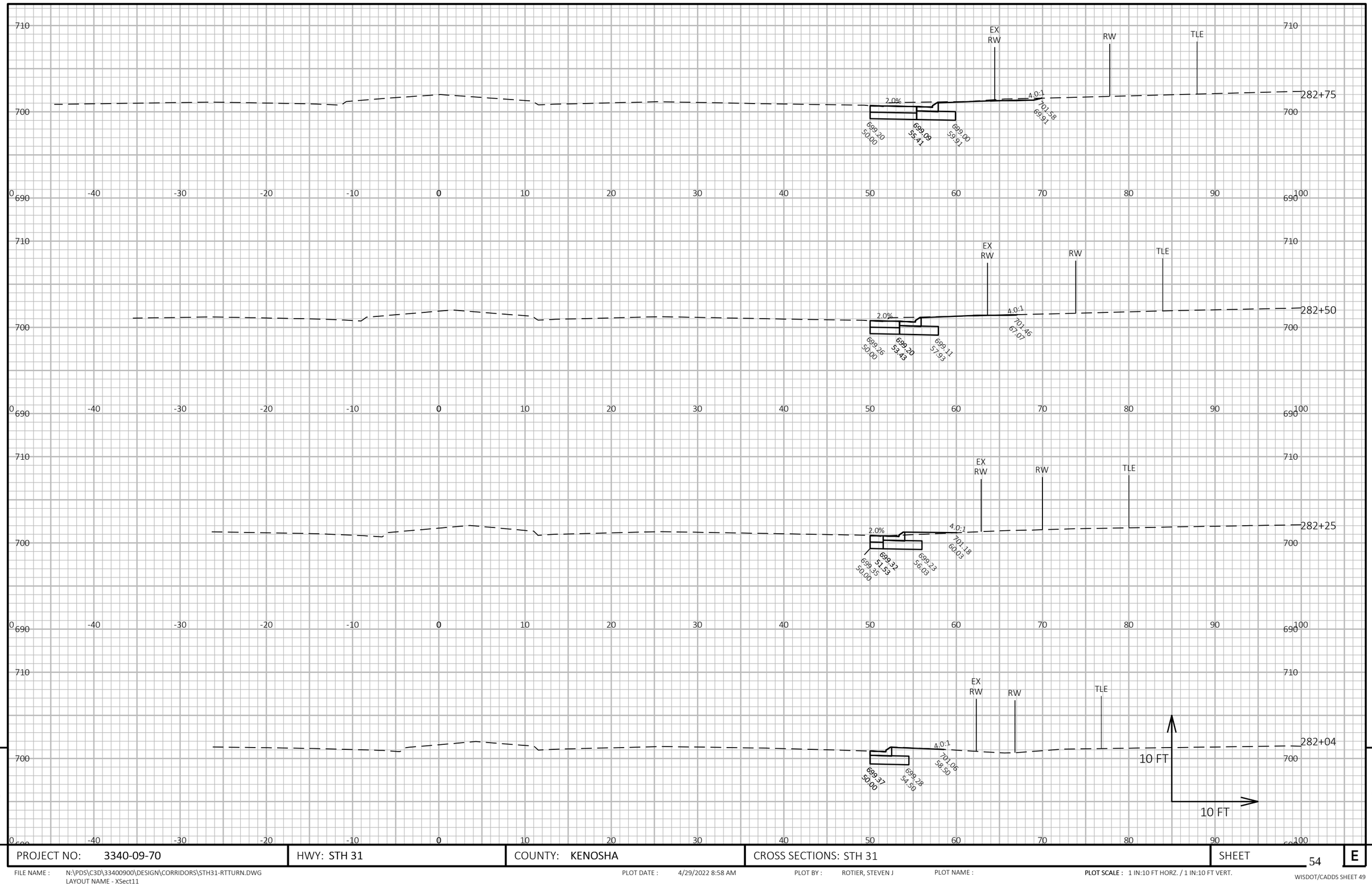
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 53 W04-2.1

PROJECT NO:

SHEET NO: E



9

9

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	CROSS SECTIONS: STH 31	SHEET 54	E

FILE NAME : N:\PDS\C3D\33400900\DESIGN\CORRIDORS\STH31-RTTURN.DWG
LAYOUT NAME - XSect11

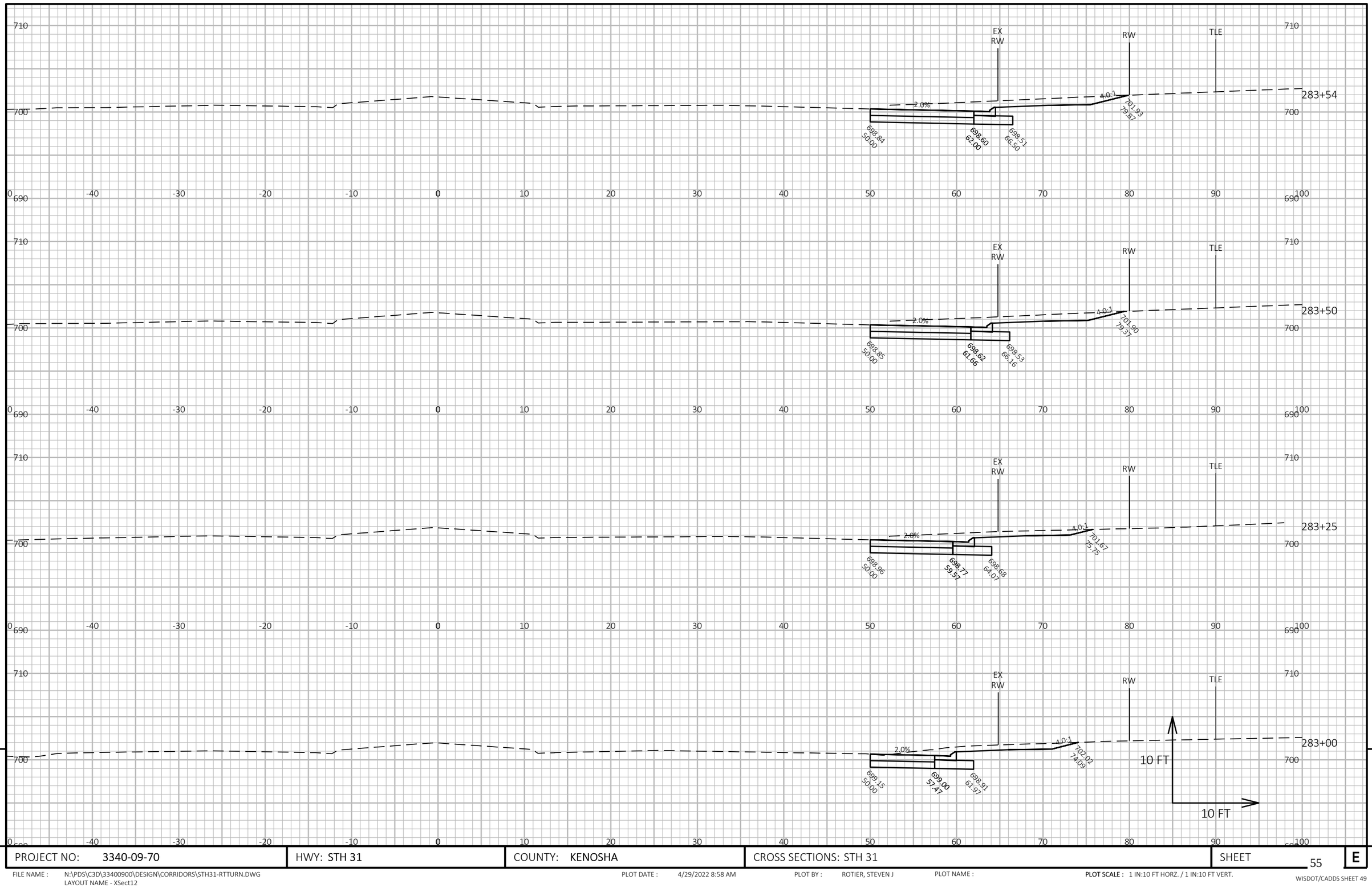
PLOT DATE : 4/29/2022 8:58 AM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	CROSS SECTIONS: STH 31	SHEET 55	E

FILE NAME : N:\PDS\C3D\33400900\DESIGN\CORRIDORS\STH31-RTTURN.DWG
LAYOUT NAME - XSect12

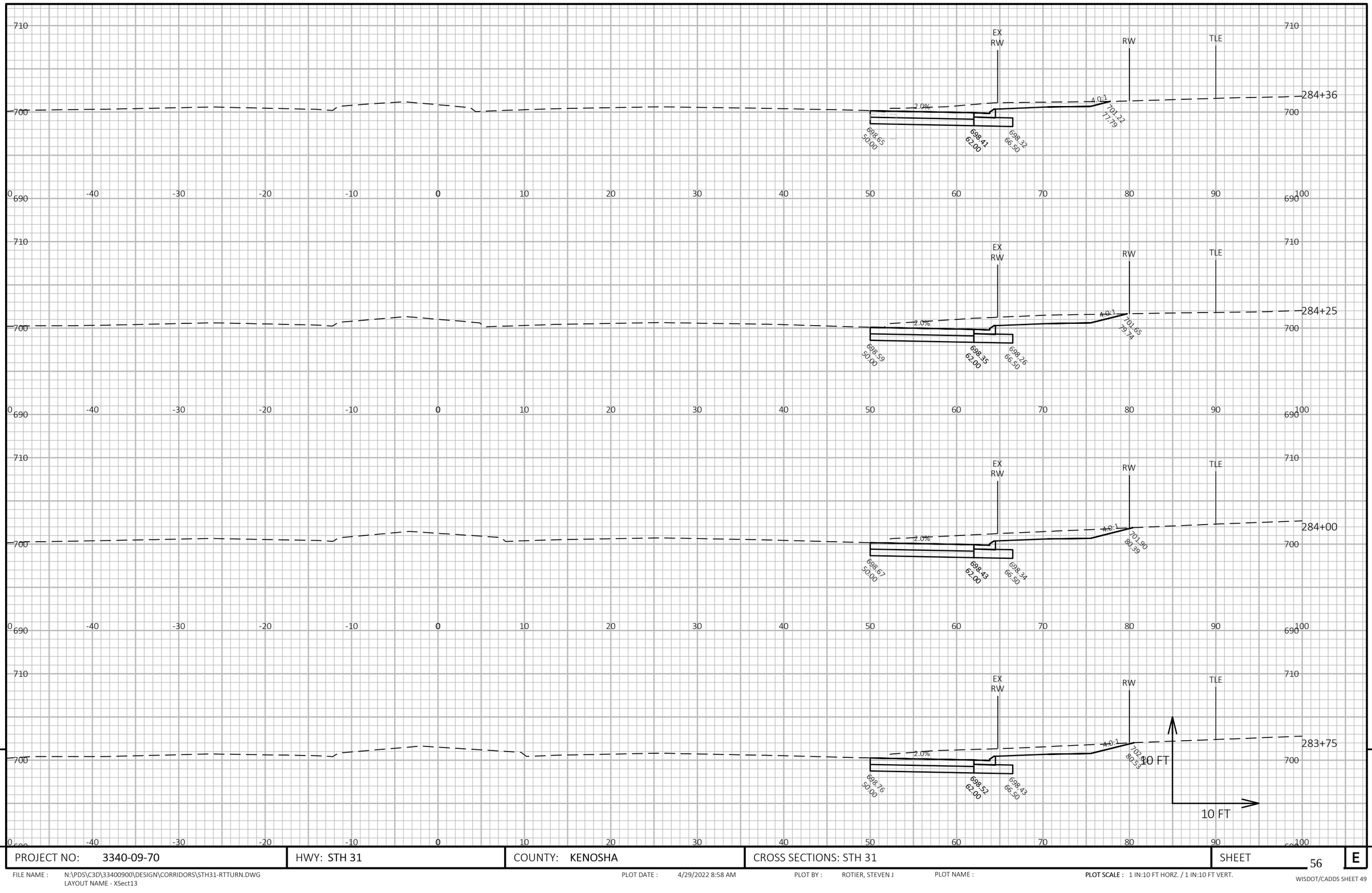
PLOT DATE : 4/29/2022 8:58 AM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	CROSS SECTIONS: STH 31	SHEET 56	E

FILE NAME : N:\PDS\C3D\33400900\DESIGN\CORRIDORS\STH31-RTTURN.DWG
LAYOUT NAME - XSect13

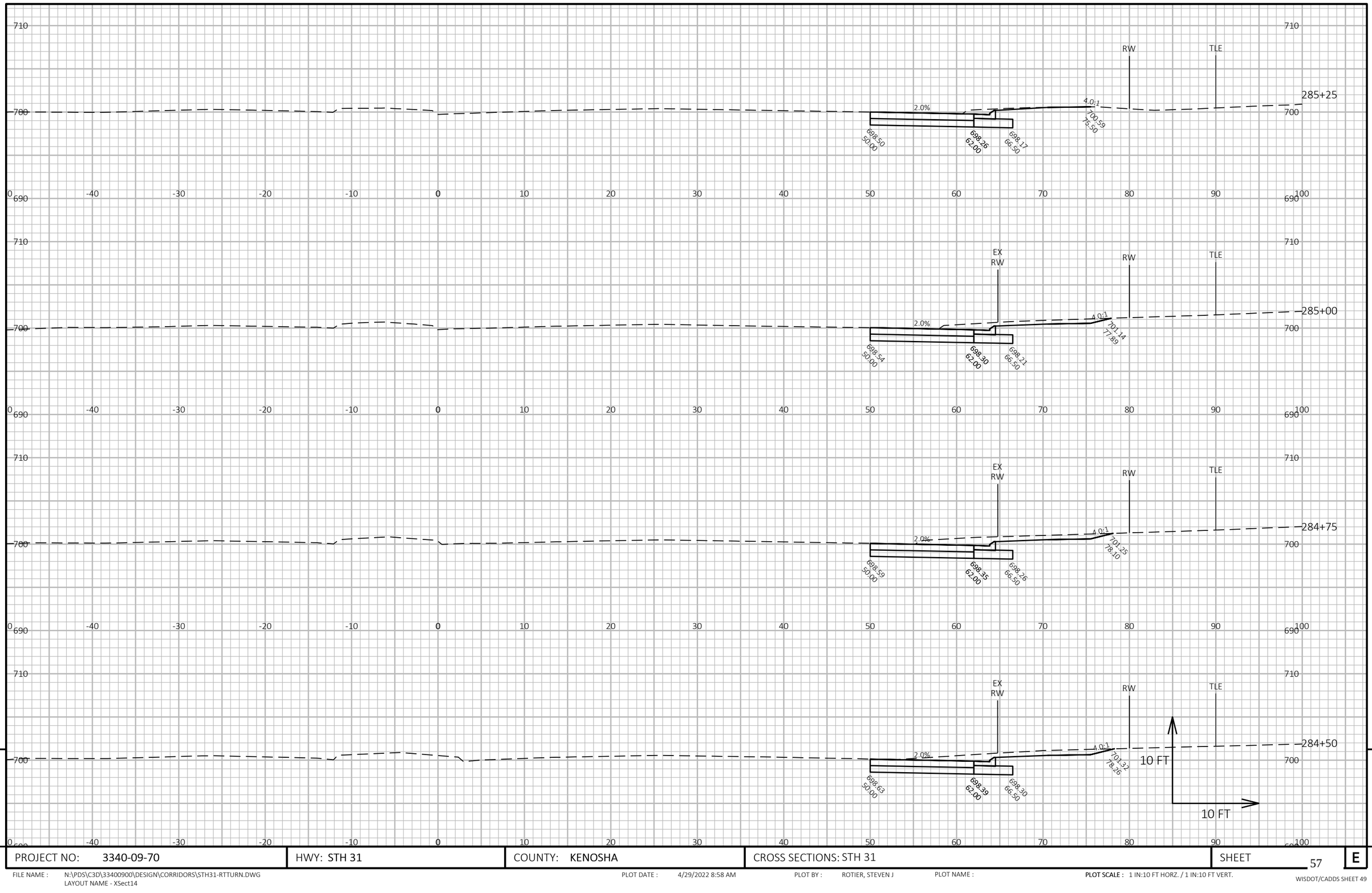
PLOT DATE : 4/29/2022 8:58 AM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	CROSS SECTIONS: STH 31	SHEET 57	E

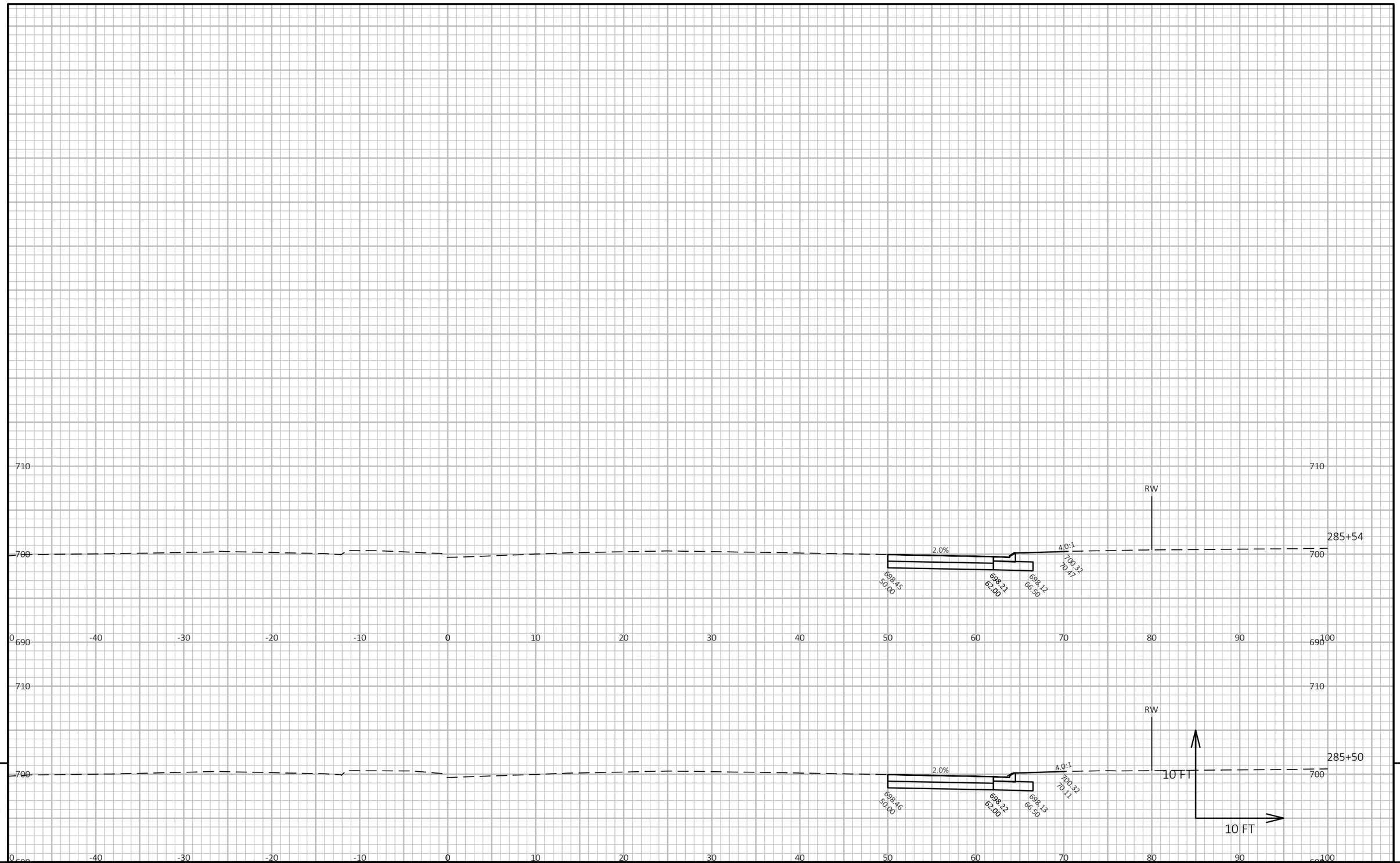
FILE NAME : N:\PDS\C3D\33400900\DESIGN\CORRIDORS\STH31-RTTURN.DWG
LAYOUT NAME - XSect14

PLOT DATE : 4/29/2022 8:58 AM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 3340-09-70	HWY: STH 31	COUNTY: KENOSHA	CROSS SECTIONS: STH 31	SHEET 58	E

FILE NAME : N:\PDS\C3D\33400900\DESIGN\CORRIDORS\STH31-RTTURN.DWG
LAYOUT NAME - XSect15

PLOT DATE : 4/29/2022 8:58 AM

PLOT BY : ROTIER, STEVEN J

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

Notes

Wisconsin Department of Transportation

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