

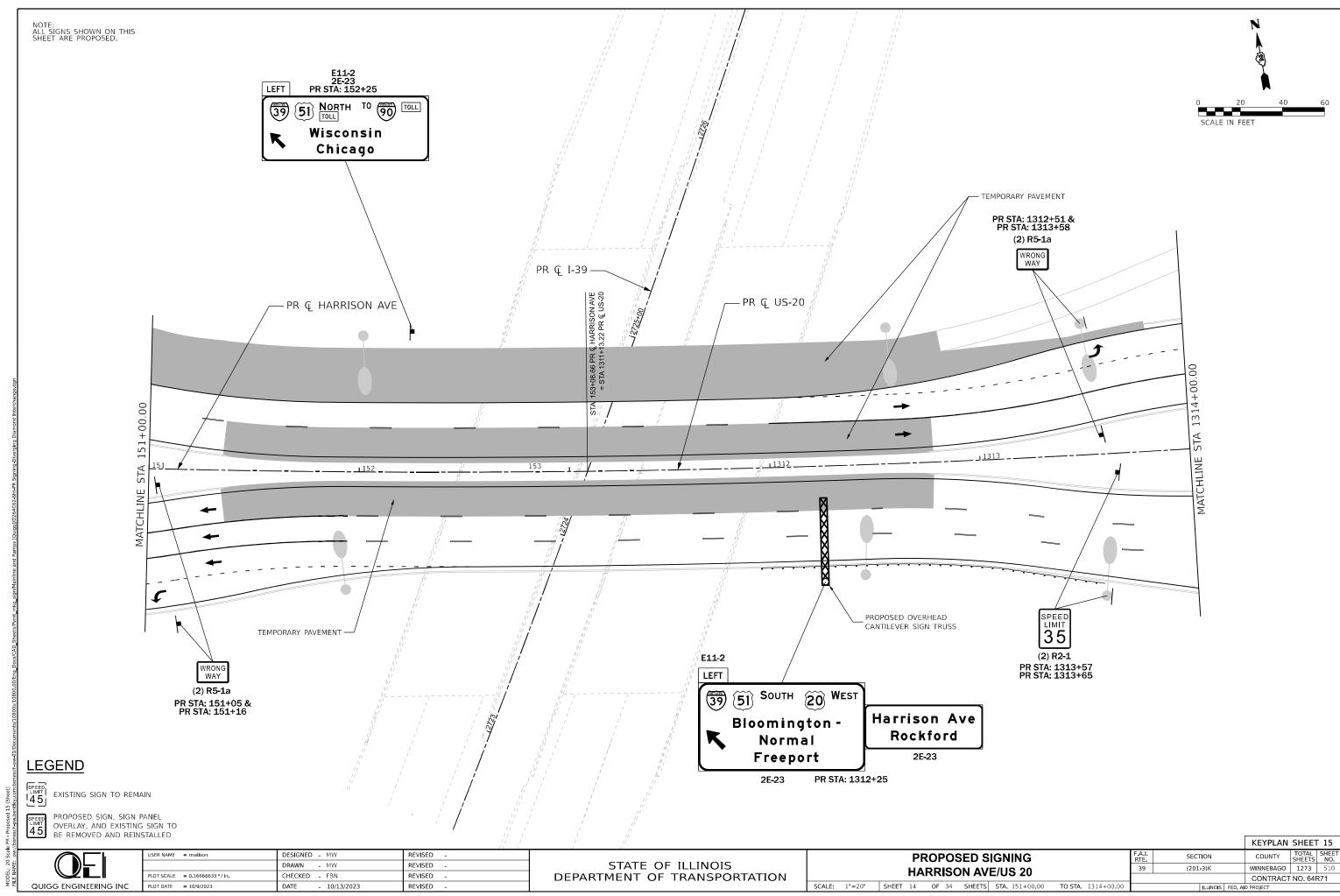
QUIGG ENGINEERING INC

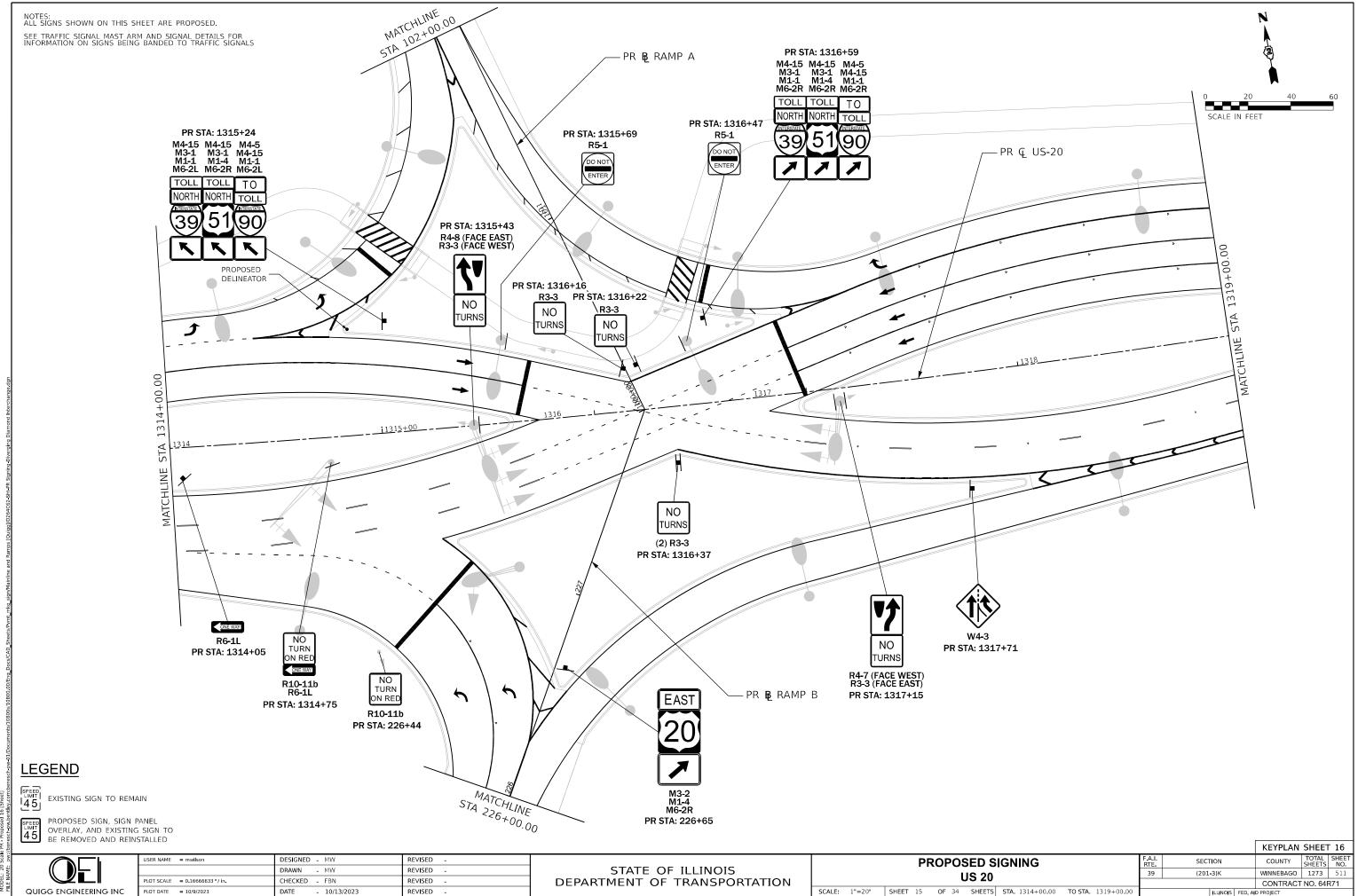
CHECKED - FBN REVISED PLOT DATE = 10/9/2023 DATE - 10/13/2023 REVISED

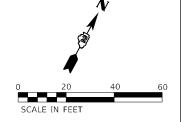
DEPARTMENT OF TRANSPORTATION

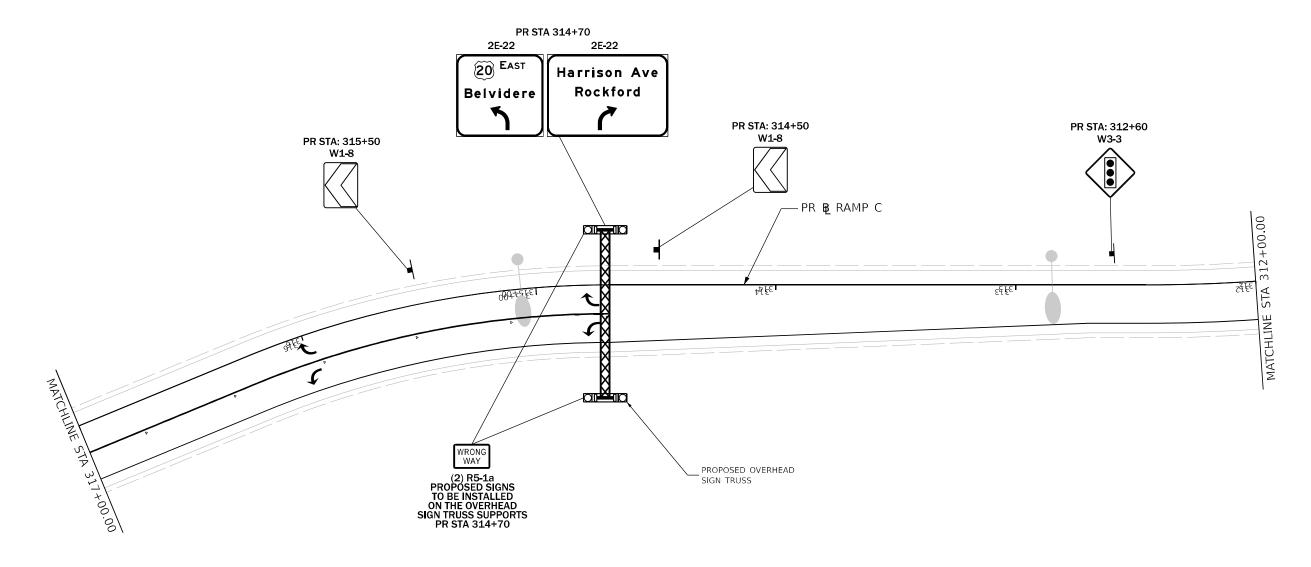
SCALE: 1"=20' SHEET 13 OF 34 SHEETS STA. 146+00.00 TO STA. 151+00.00

CONTRACT NO. 64R71









LEGEND

EXISTING SIGN TO REMAIN

PROPOSED SIGN, SIGN PANEL
OVERLAY, AND EXISTING SIGN TO
BE REMOVED AND REINSTALLED

QUIGG ENGINEERING INC

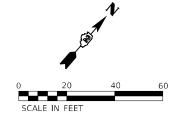
USER NAME = mwilson	DESIGNED - MW	REVISED -	
	DRAWN - MW	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - FBN	REVISED -	DEPA
PLOT DATE = 10/9/2023	DATE - 10/13/2023	REVISED -	

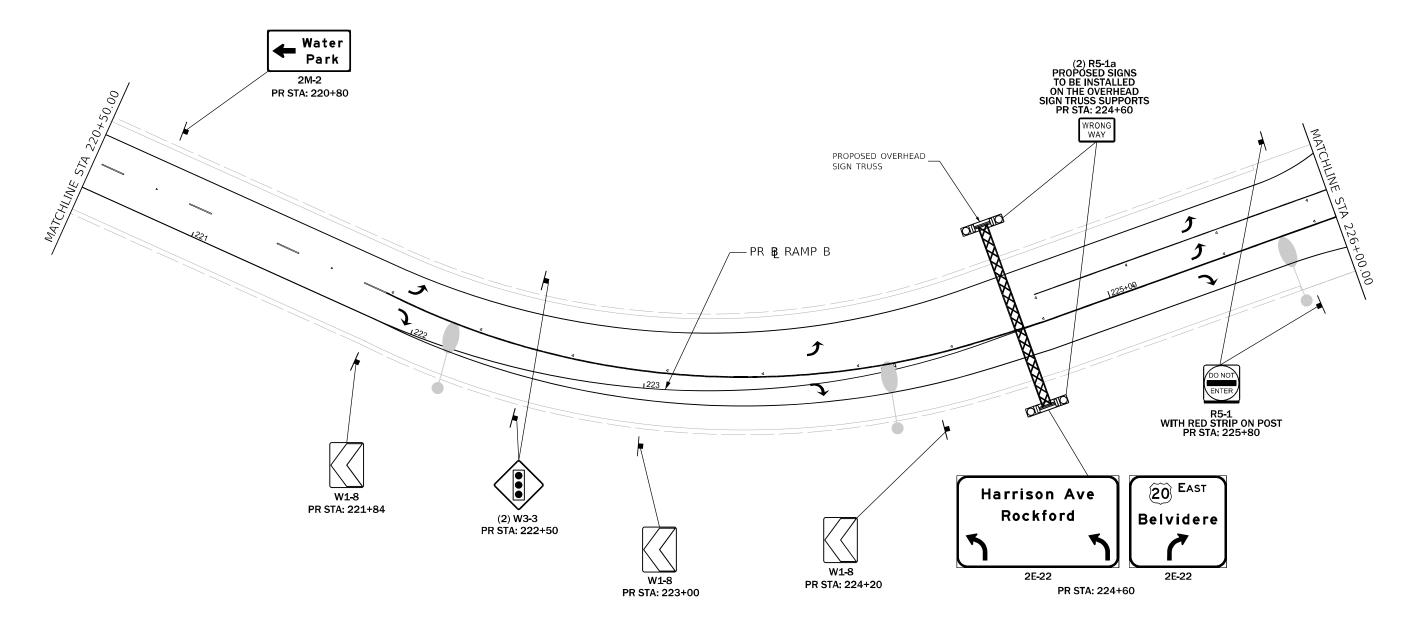
STATE	OF	ILLING	DIS	
DEPARTMENT (OF 7	ΓRANS	PORTAT	ΠOΝ

PROPOSED SIGNING	F.A.I. RTE	SECTION	
RAMP C	39	(201 - 3)K	V
IXAWIF O			Τ,
SCALE: 1"=20 SHEET 16 OF 34 SHEETS STA 312+00.00 TO STA 317+00.00		ILLINOIS FED. A	ND P

KEYPLAN SHEET 17 COUNTY SHEETS NO. WINNEBAGO 1273 512 CONTRACT NO. 64R71

NOTE: ALL SIGNS SHOWN ON THIS SHEET ARE PROPOSED.





LEGEND

EXISTING SIGN TO REMAIN

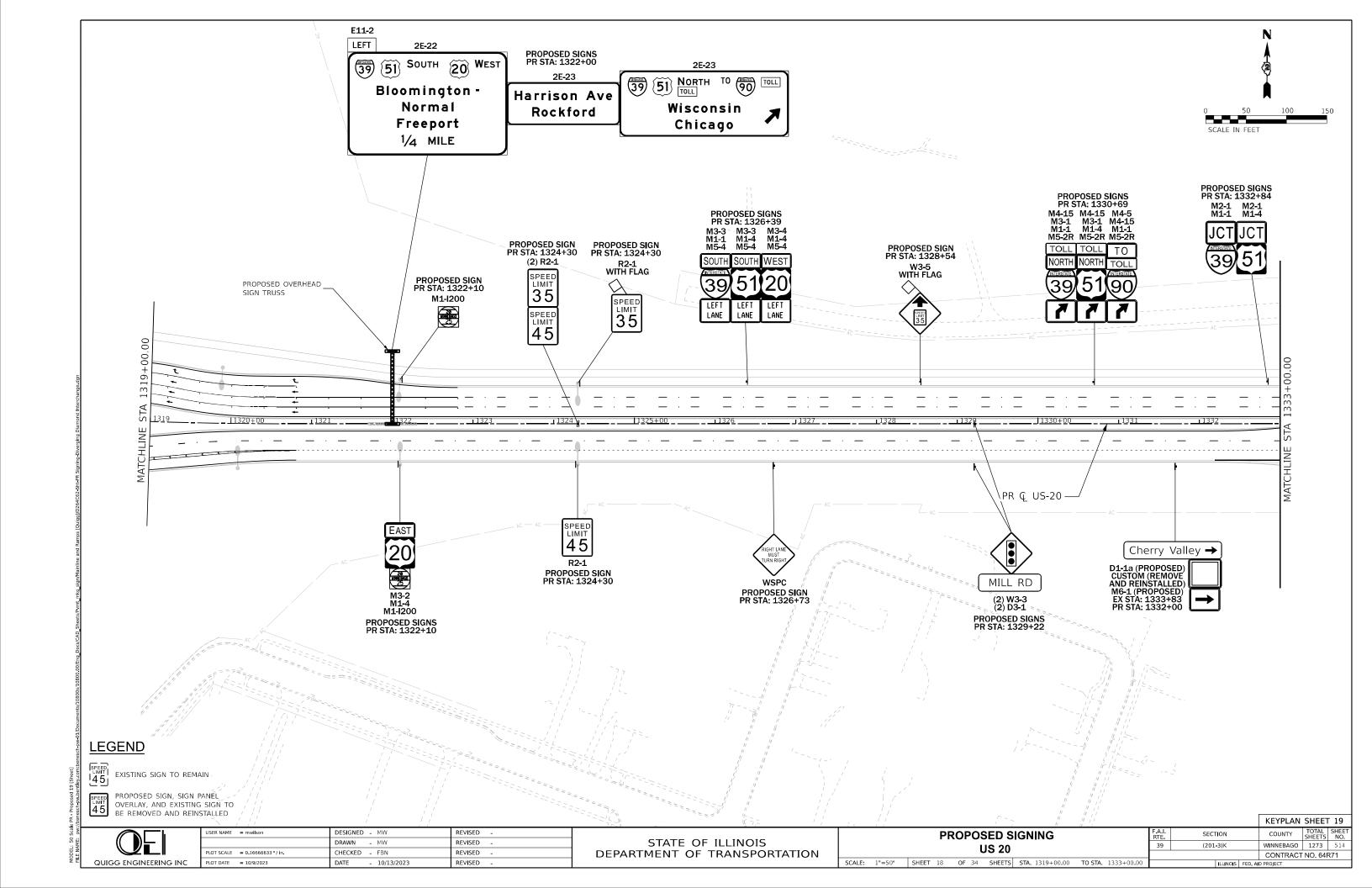
PROPOSED SIGN, SIGN PANEL OVERLAY, AND EXISTING SIGN TO BE REMOVED AND REINSTALLED

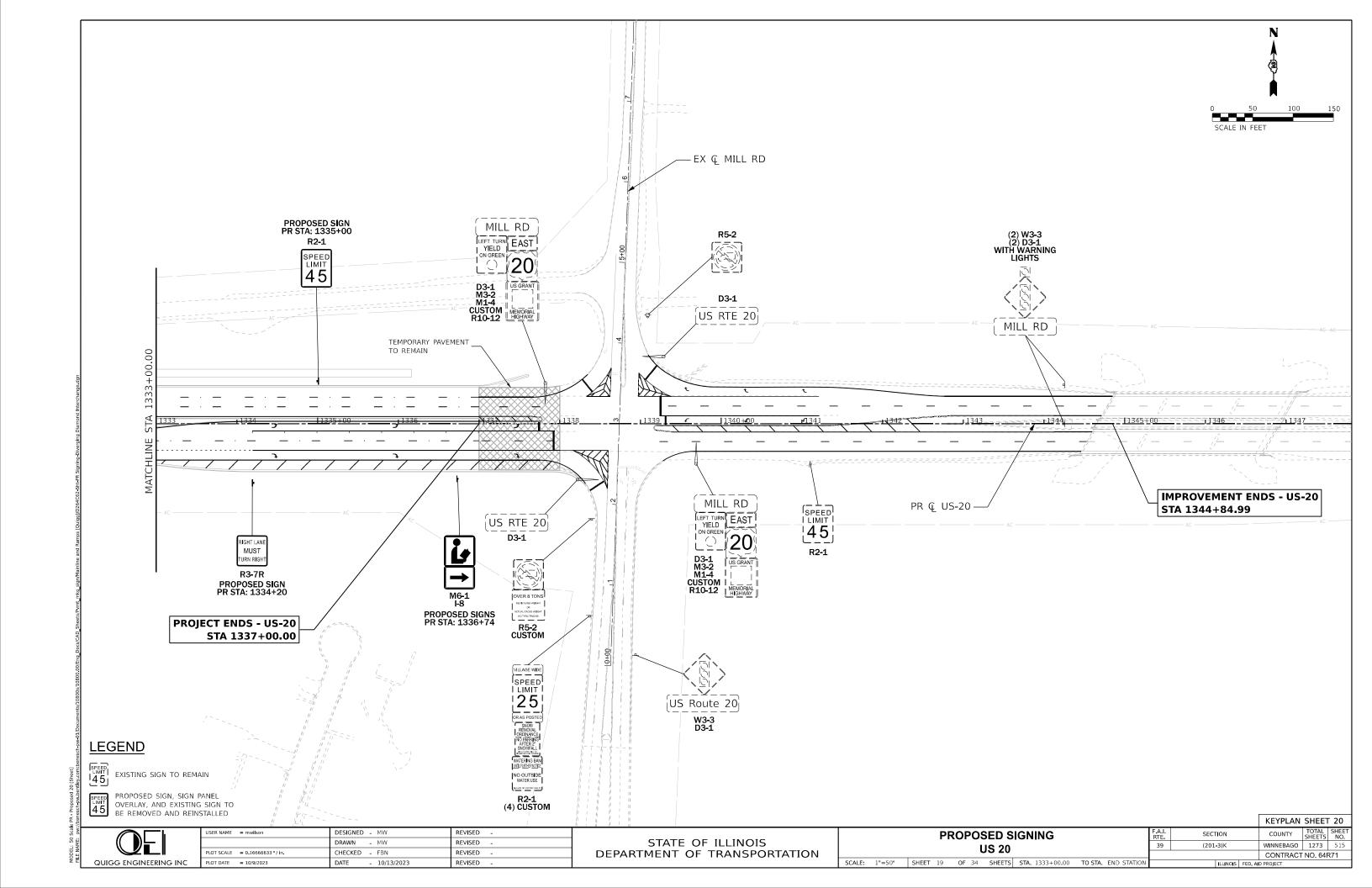
LICC ENGINEERING IN

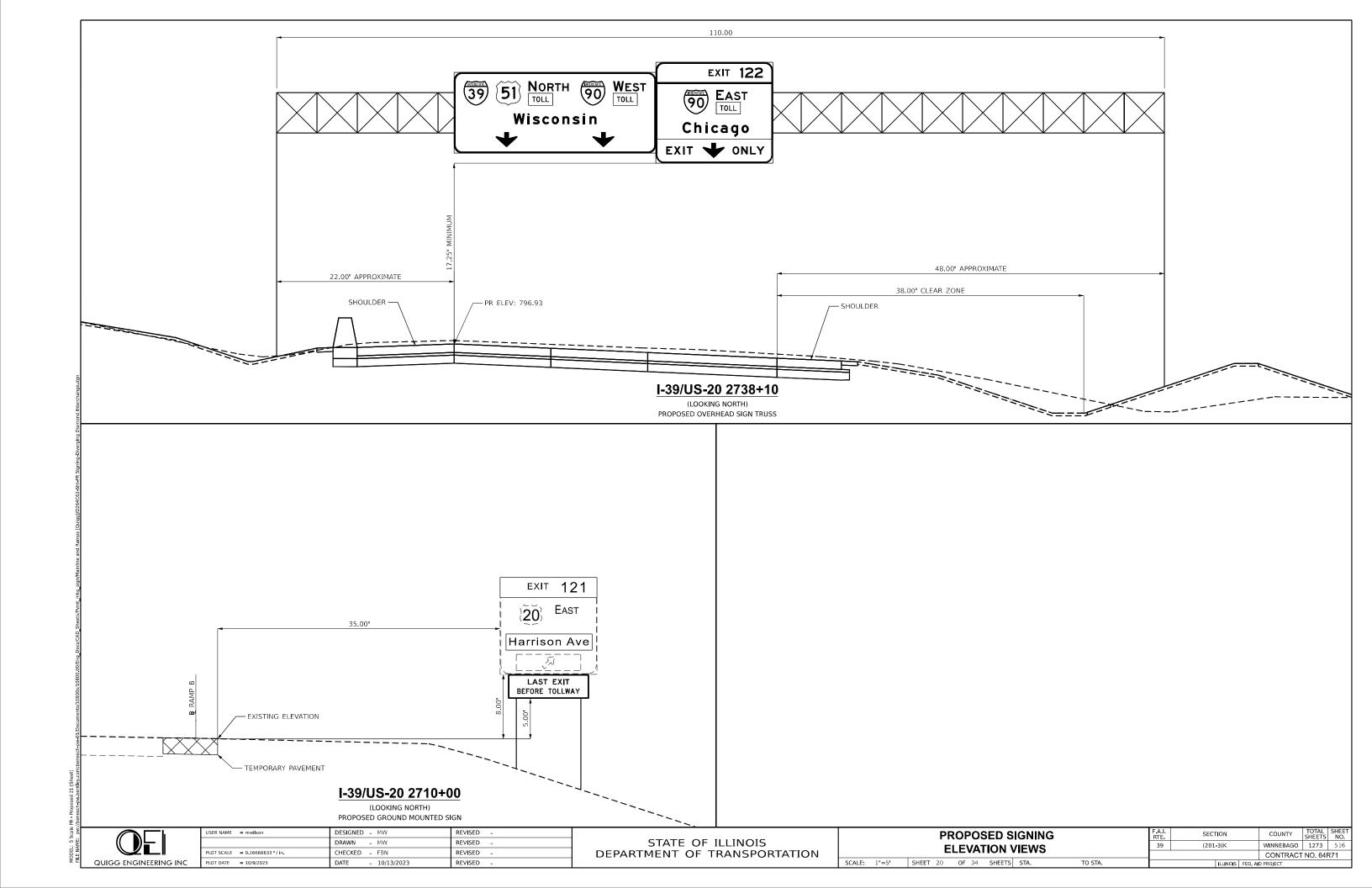
USER NAME = mwilson	DESIGNED - MW	REVISED -	i
	DRAWN - MW	REVISED -	ı
PLOT SCALE = 0.16666633 / in.	CHECKED - FBN	REVISED -	ı
PLOT DATE = 10/9/2023	DATE - 10/13/2023	REVISED -	

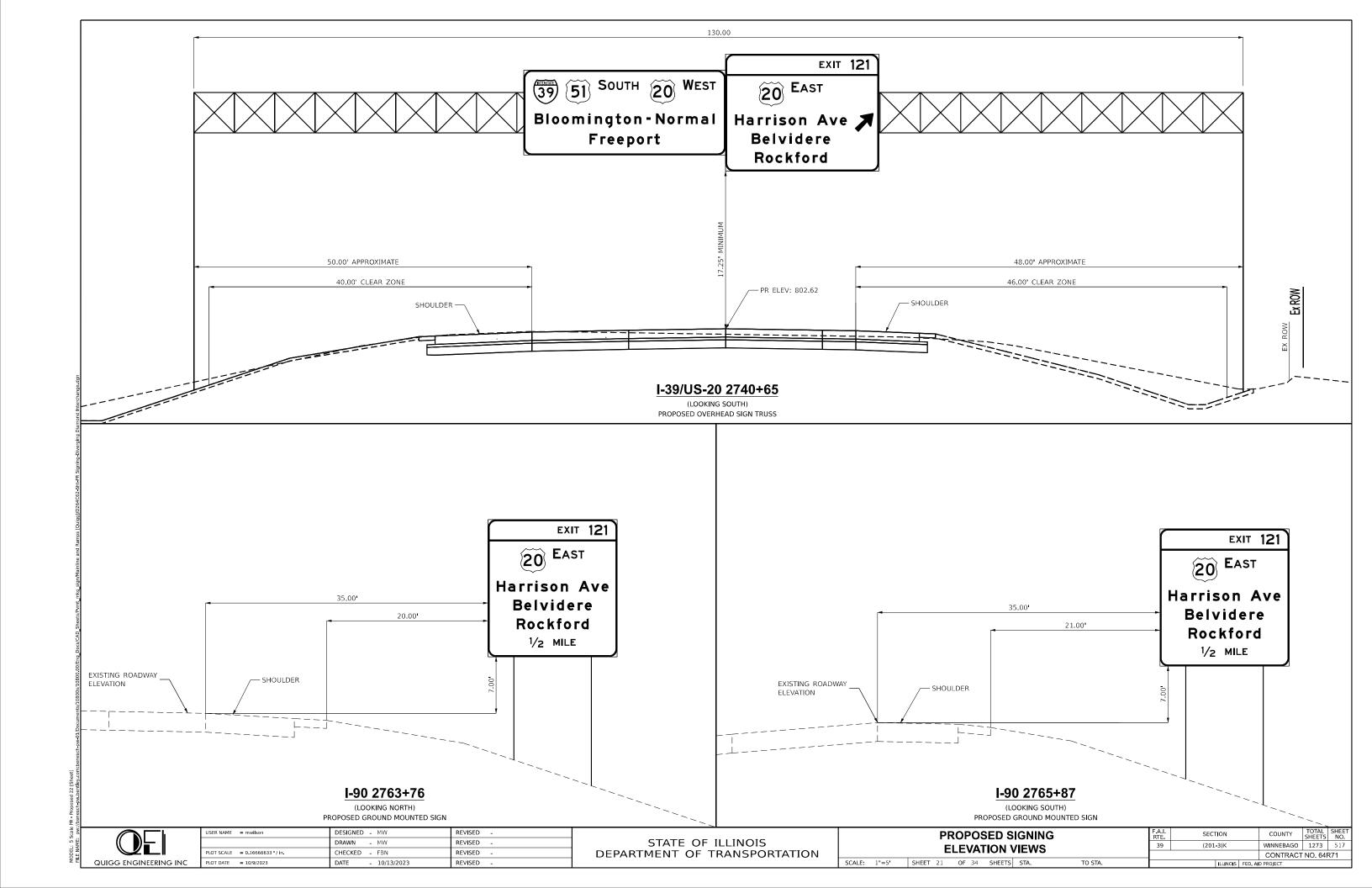
STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

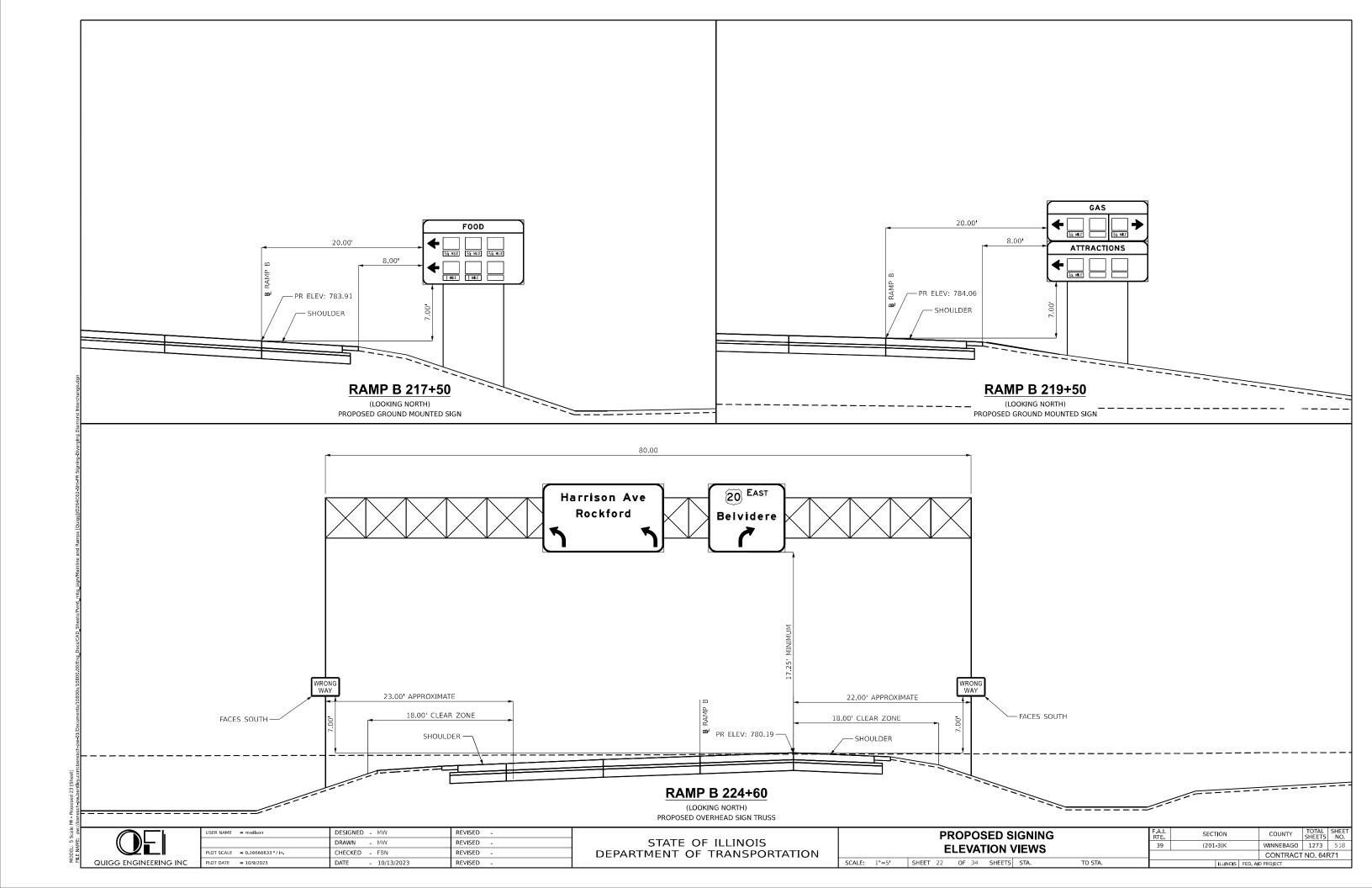
					KEYPLAN	SHEE	Г 18
	F.A.I. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
RAMP B	39	(201-	-3)K		WINNEBAGO	1273	513
IVAIIII D					CONTRACT	NO. 641	₹71
SCALE: 1"=20 SHEET 17 OF 34 SHEETS STA. 220+50.00 TO STA. 226+00.00			ILLINOIS	FED. All	D PROJECT		

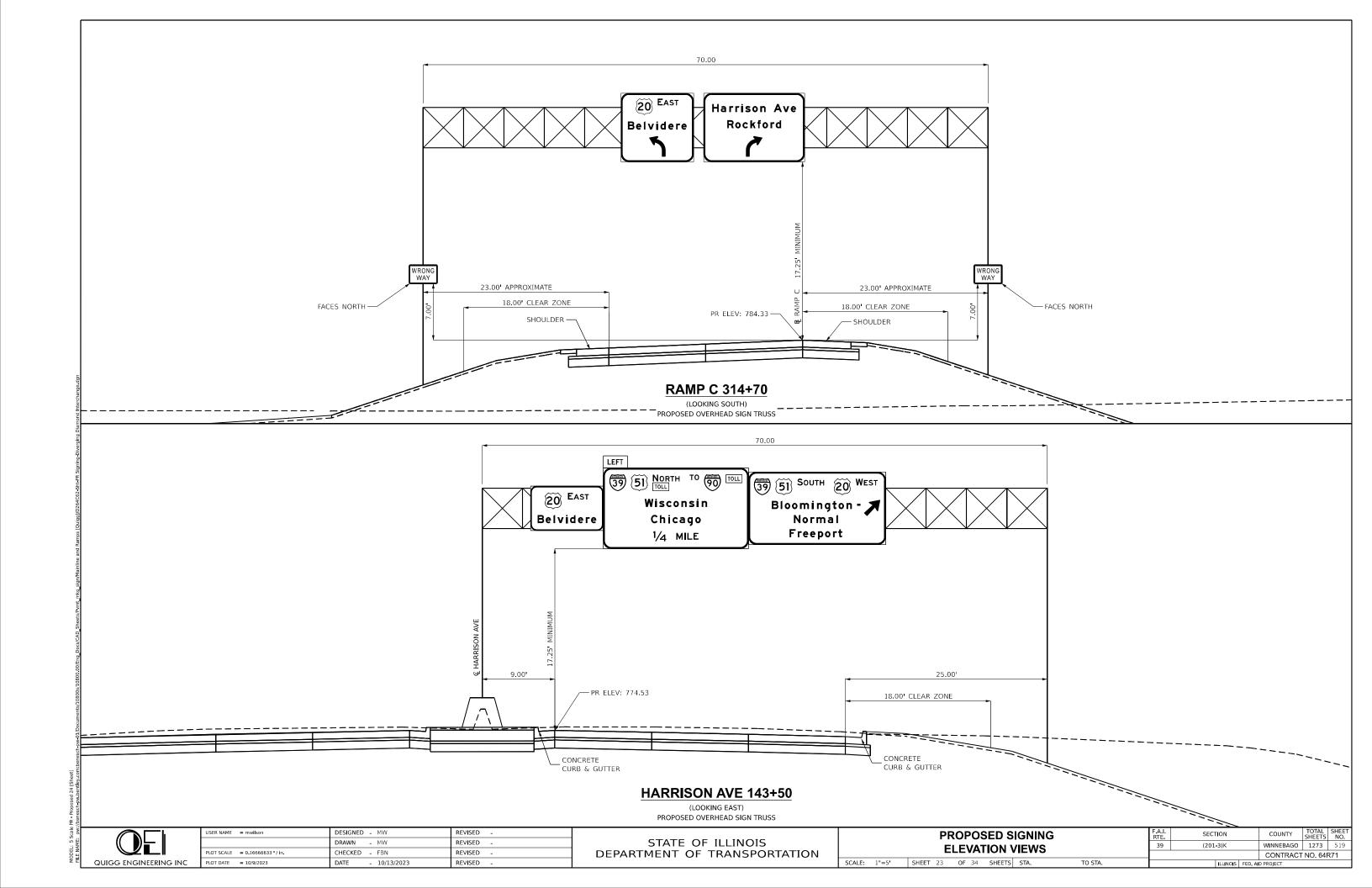


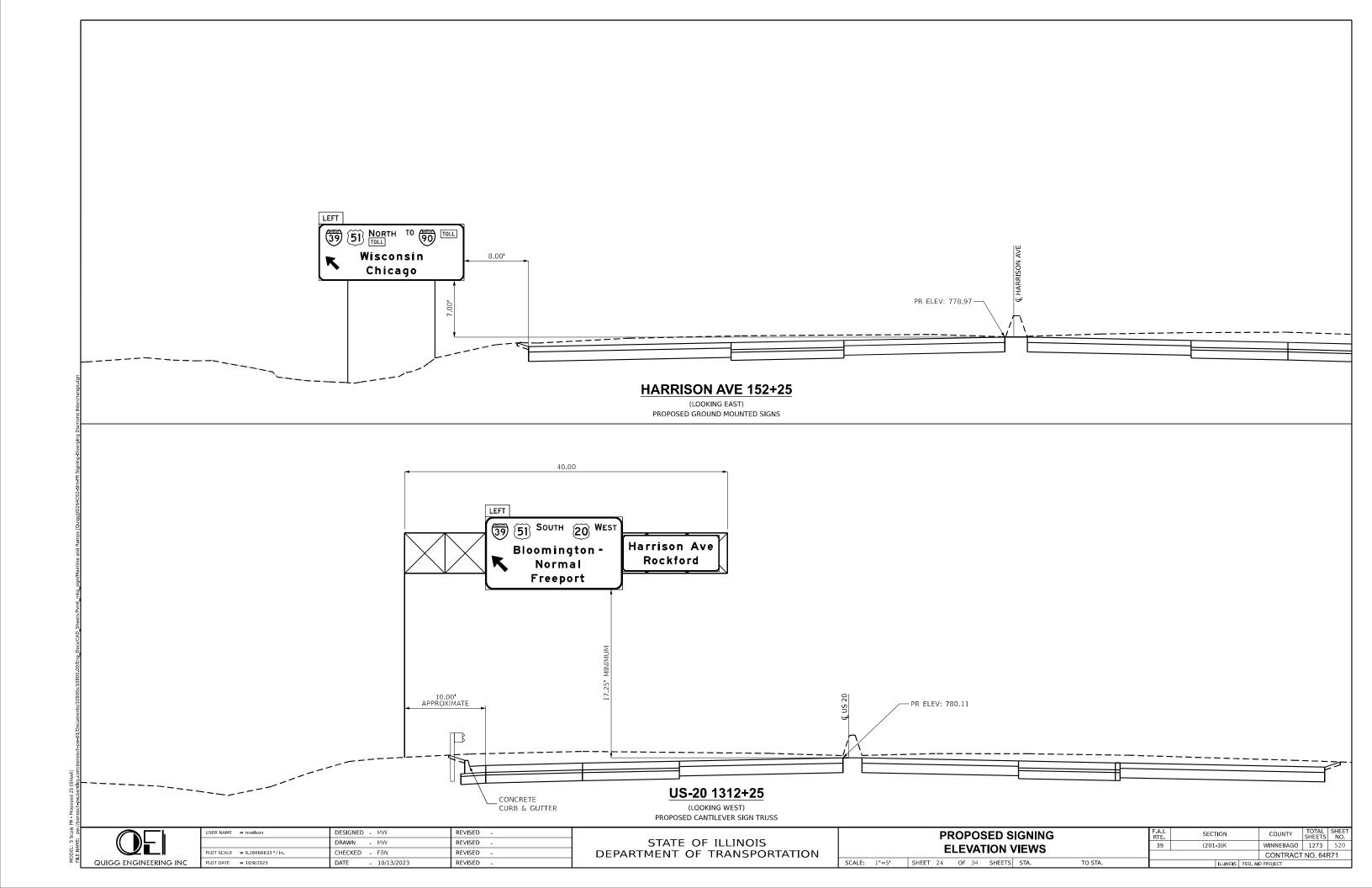


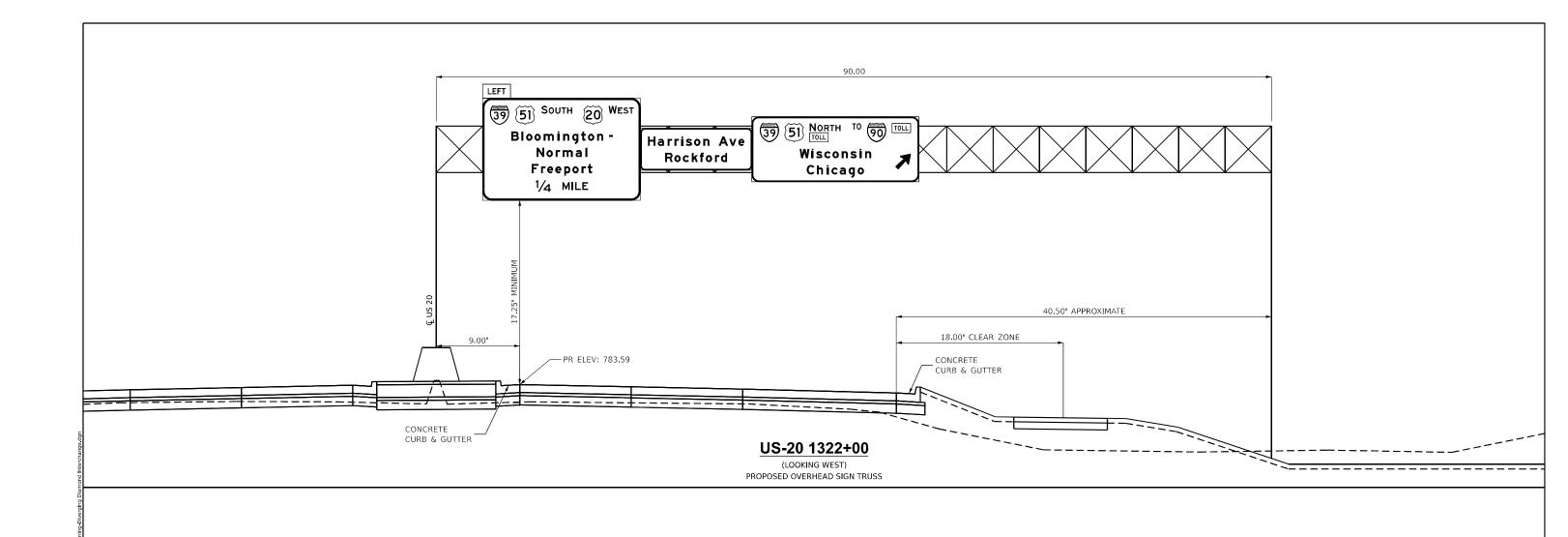












QUIGG ENGINEERING INC

DESIGNED - MW REVISED DRAWN - MW REVISED CHECKED - FBN REVISED PLOT DATE = 10/10/2023 DATE - 10/13/2023 REVISED

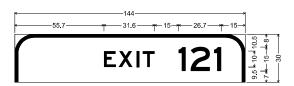
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING **ELEVATION VIEWS** SCALE: 1"=5' SHEET 25 OF 34 SHEETS STA.

TO STA.

COUNTY TOTAL SHEET NO.
WINNEBAGO 1273 521 SECTION (201**-**3)K CONTRACT NO. 64R71

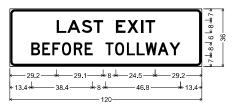
I-39/US-20 2680+91 (NB)



12.0" Radius, 2.0" Border, White on Green; "EXIT", E 2K 120% spacing; " 121", E 2K;

	Ε	Х	1	Т	1	2	1		
55.7	9.2	11.1	3.8	22.5	7.5	14.7	4.5	15.0	ı

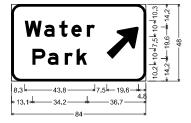
I-39/US-20 2710+00 (NB)



3.0" Radius, 1.0" Border, 0.5" Indent, Black on Fluorescent yellow; "LAST EXIT", E 2K; "BEFORE TOLLWAY", D 2K; Table of widths and spaces

	L		Α		S		Т								
29.2	6.0	0.7	8.1	0.9	6.5	0.9	6.0								
		Е		Х		I		Т							
	8.0	6.0	1.1	7.0	1.6	1.4	1.4	6.0	29.2	2					
	В		Е		F		0		R		Ε				
13.4	5.5	1.3	5.0	1.4	4.9	1.1	5.6	1.8	5.4	1.4	5.0				
		Т		0		L		L		W		Α		Υ	
	8.0	4.9	1.1	5.6	1.8	5.0	1.2	4.9	0.5	7.1	0.5	6.8	0.5	6.9	13.4

I-39/US-20 2703+00 (NB) I-39/US-20 2746+00 (SB)



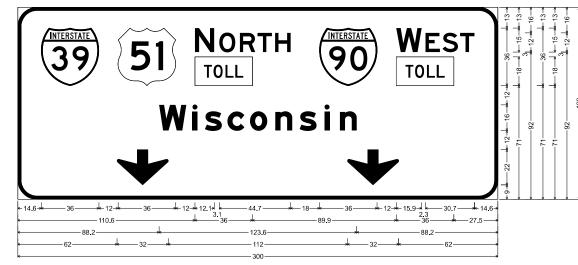
6.0" Radius, 1.3" Border, White on Brown; "Water", E Mod 2K;

"Park", E Mod 2K; Arrow 80 - 25.0" 45°;

Table of widths and spaces

	W 10.6		a		t		e		r
8.3	10.6	1.5	6.6	2.9	5.2	2.3	6.6	3.1	5.0
		Я							
	7.5	19.	6 4.	8					
	Р		а		r		k]
13.1	8.1	1.5	6.6	4.0	5.0	2.4	6.6	36.7	

I-39/US-20 2738+10 (NB)



12.0" Radius, 2.0" Border, White on Green;

"NORTH", E 2K; Rectangle Fluorescent yellow;

"WEST", E 2K; Rectangle Fluorescent yellow;

"Wisconsin", E Mod 2K; Down Arrow 22.0" 270°; Down Arrow 22.0" 270°;

Table of distances between letter and object lefts

			N	0	R	Т	Н		W	ı	Ε	S	Т	
14.6	48.0	48.0	N 15.2	12.9	11.0	11.1	1 27.7	' 48	.0 1	8.2	10.7	11.0	9.0	14.6
110.6 125.9 36.0 27.5														
110.6	6 125.	.9 36	6.0 27	. 5										
	W	i	s (С	0	n	s	i	n					
88.2	20.8	7.9	s 14.1	14.0	15.9	15.2	15.5	9.6	10.6	88	3.2			
	+	+												
62.0	144.0	32.	0 62.	0										

QUIGG ENGINEERING INC

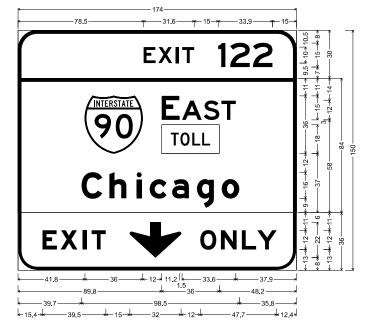
JSER NAME = mwilson	DESIGNED - MW	REVISED -
	DRAWN - MW	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED - FBN	REVISED -
PLOT DATE = 10/9/2023	DATE - 10/13/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING	F.A.I. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
SIGN PANEL DETAILS	39	(201	-3)K		WINNEBAGO	1273	522
OION I ANLE DE IAILO					CONTRACT	NO. 641	R71
SCALE: 1"=5' SHEET 26 OF 34 SHEETS STA. TO STA.			ILLINOIS F	FED. AID	PROJECT		

vEL: NTS PR - Proposed 27 [Sheet] NAME: pw://benesch-pw.bentley.com:bene

I-39/US-20 2738+10 (NB)



12.0" Radius, 2.0" Border, White on Green; "EXIT", E 2K 120% spacing; " 122", E 2K;

12.0" Radius, 2.0" Border, White on Green; "EAST", E 2K, Rectangle Fluorescent yellow, "Chicago", E Mod 2K;

Table of distances between letter and object lefts

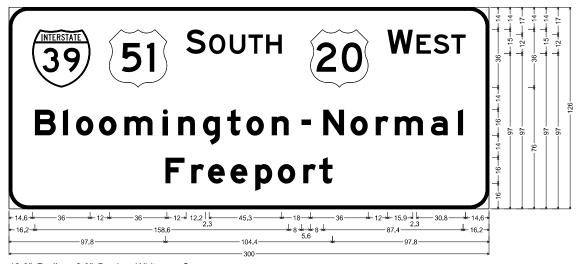
12.0" Radius, 1.5" Border, 0.5" Indent, Black on Fluorescent yellow; "EXIT", E Mod 2K 140% spacing; Down Arrow 22.0" 270°; "ONLY", E Mod 2K;

 E
 X
 I
 T
 1
 2
 2
 2
 12.1
 15.0
 41.8 48.0 12.7 13.6 11.0 9.0 37.9 89.8 36.0 48.2 39.7 17.4 17.0 8.1 14.1 15.5 15.5 10.9 35.8

 E
 X
 I
 T
 Ф
 0
 N
 L
 Y

 15.4
 11.2
 14.0
 5.4
 23.9
 44.0
 12.9
 13.1
 9.6
 12.1
 12.4

I-39/US-20 2740+65 (SB)



12.0" Radius, 2.0" Border, White on Green,

"SOUTH", E 2K; "WEST", E 2K; "Bloomington - Normal", E Mod 2K; "Freeport", E Mod 2K; Table of distances between letter and object lefts

14.6	48. 0	48. 0	S 14.	0 5 12.8	U 3 11.8	T 11.	0 H	.7 48	3.0 1		E 10.7	S 11	T 1 9	0 14.	6					
	В	ı	•	•	m	i T	n	a	t	0	n		-	N	•	r 11.8	m 22.6	a 17.0	1 32	16.2
	F	r	е		Р	0	r	t			0 10	.0	10.0	17.0	10.0	111.0	22.0	17.0	0.2	10.2

QUIGG ENGINEERING INC

JSER NAME = mwilson	DESIGNED - MW	REVISED -	
	DRAWN - MW	REVISED -	
PLOT SCALE = 0.16666633 / in.	CHECKED - FBN	REVISED -	
PLOT DATE = 10/9/2023	DATE - 10/13/2023	REVISED -	

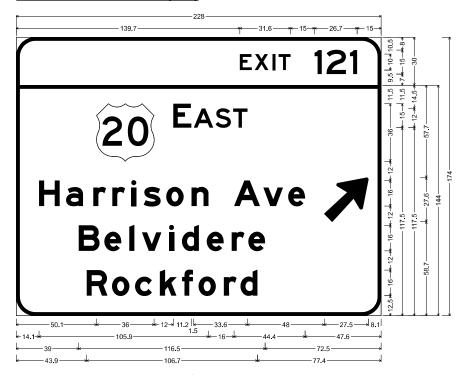
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PF	ROPOS	SED S	IGNIN	G	F.A.I. RTE	s
SIC	GN PAI	VEL D	FΤΔΙΙ	9	39	(2
<u> </u>		ILL D	LIAIL	<u> </u>		
7	OF 24	CHEETC	CTA	TO CTA		

SECTION (201-3)K WINNEBAGO 1273 523 CONTRACT NO. 64R71

SCALE: 1"=5' SHEET 27

I-39/US-20 2740+65 (SB)



12.0" Radius, 2.0" Border, White on Green, "EXIT", E 2K 120% spacing, " 121", E 2K,

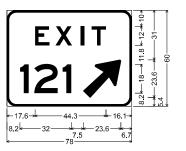
12.0" Radius, 2.0" Border, White on Green,

"EAST", E 2K; "Harrison Ave", E Mod 2K; "Belvidere", E Mod 2K; "Rockford", E Mod 2K; Arrow 160 - 35.0" 45°:

Table of distances between letter and object lefts

139.7	E 9.2	X 11.1	I 3.8	T 22.5	1 7.5	2 14.7	1 4.5	15.0				
		_	_	S 11.0	_		=	\neg				
14.1	H 17.0	a 16.9	r 11.9	r 11.8	i 7.9	s 14.0	o 15.9	n 26.5	A 18.3	v 15.5	e 10.6	47.6
39.0	B 16.0	e 15.5	I 7.9	v 16.9	i 8.2	d 15.5	e 15.5	r 10.4	e 10.6	72.5		
43.9	R 15.8	o 14.4	c 15.5	k 14.0	f 10.	o 2 15.	r .8 10	d 0.4 10	.6 77.	4		

I-39/US-20 2716+54 (NB) I-39/US-20 2732+41 (SB)



6.0" Radius, 1.3" Border, White on Green, "EXIT", E 2K 225% spacing;

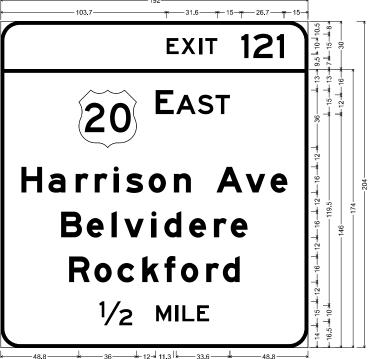
"121". E 2K:

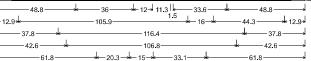
Arrow 133 - 30.0" 45°;

Table of letter and object lefts

E 17.6	ò	X 30.3	3	I 46.2	2	T 52.9
1 8.2	4	2 17.2	1	34.8	4	≠ 17.7

I-90 2765+87 (LOOKING WEST) I-90 2763+76 (LOOKING EAST)





12.0" Radius, 2.0" Border, White on Green;

"EXIT", E 2K 120% spacing, " 121", E 2K,

12.0" Radius, 2.0" Border, White on Green;

"EAST", E 2K; "Harrison Ave", E Mod 2K; "Belvidere", E Mod 2K; "Rockford", E Mod 2K; "½ MILE". E 2K:

Table of distances between letter and object lefts

	E	X	I	Т	1	2	1 4.5					
103.7	9.2	11.1	3.8	22.5	7.5	14.7	4.5	15.0				
40.0	# 40.0	E	A	S	T	10.1						
48.8	48.0	12.8	13.	5 11.	1 9.0	7 48.	3					
	H	а	r	r	i	s	0	n	Α	v	e	
12.9	16.9	17.0	11.8	11.9	7.8	14.	1 15.8	n 26.6	18.2	15.6	10.5	12.9
	В	е	1	v	i	d	е	r	e			
37.8	16.0	15.5	7.8	17.0	8.1	15.6	15.5	r 10.4	10.5	37.8		
	R	0	С	k	f	0	г	d				
42.6	15.9	14.4	15.5	13.9	9 10	.3 15	.8 10	.4 10.	6 42.	6		
	1/2	М	1	L	E							
61.8	35.3	12.0	4.4	9.2	7.5	61.8						

QUIGG ENGINEERING INC

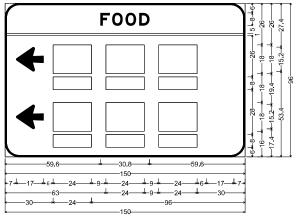
DESIGNED - MW REVISED DRAWN - MW REVISED CHECKED - FBN REVISED PLOT DATE = 10/9/2023 DATE - 10/13/2023 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING SIGN PANEL DETAILS SCALE: 1"=5' SHEET 28 OF 34 SHEETS STA.

(201-3)K WINNEBAGO 1273 524 CONTRACT NO. 64R71

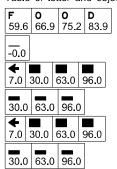
RAMP B 217+50



9.0" Radius, 1.0" Border, White on Blue;

"FOOD", E Mod 2K; Arrow 80 - 17.0" 180°; Arrow 80 - 17.0" 0°; Arrow 80 - 17.0" 180°; Arrow 80 - 17.0" 0°;

Table of letter and object lefts



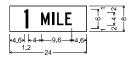
RAMP B 217+50 RAMP B 219+50



No border, White on Blue, "3/4 MILE", C 2K;

Table of widths and spaces

1.9 6.6 4.0 2.6 0.9 0.6 0.8 2.1 0.5 2.1 1.9



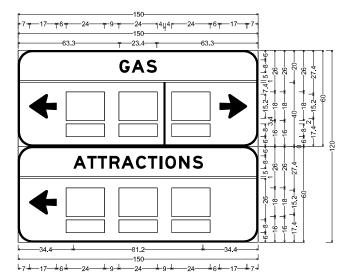
No border, White on Blue,

"1 MILE", C 2K,

Table of widths and spaces

4.6 1.2 4.0 2.7 0.9 0.5 0.9 2.0 0.6 2.0 4.6

RAMP B 219+50

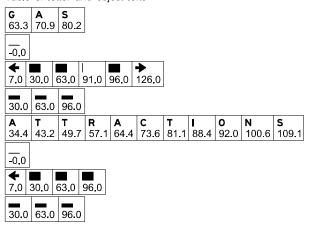


9.0" Radius, 1.0" Border, White on Blue,

"GAS", E Mod 2K; Arrow 80 - 17.0" 180°; Arrow 80 - 17.0" 0°;

9.0" Radius, 1.0" Border, White on Blue;

"ATTRACTIONS", E Mod 2K; Arrow 80 - 17.0" 180°; Arrow 80 - 17.0" 0°; Table of letter and object lefts



TO STA.

QUIGG ENGINEERING INC

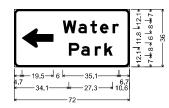
DESIGNED - MW REVISED DRAWN - MW REVISED CHECKED - FBN REVISED PLOT DATE = 10/9/2023 REVISED DATE - 10/13/2023

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING SIGN PANEL DETAILS SCALE: 1"=5' SHEET 29 OF 34 SHEETS STA.

SECTION COUNTY (201-3)K WINNEBAGO 1273 525 CONTRACT NO. 64R71

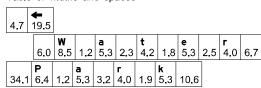
RAMP B 220+80



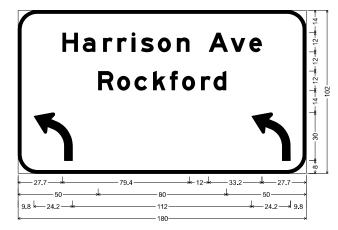
3.0" Radius, 1.0" Border, White on Brown; Standard Arrow Custom 19.5" X 11.8" 180°; "Water", E Mod 2K;

"Park", E Mod 2K;

Table of widths and spaces



RAMP B 224+60

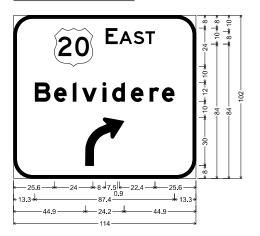


12.0" Radius, 2.0" Border, White on Green,

"Harrison Ave", E Mod 2K; "Rockford", E Mod 2K; left arrow; left arrow; Table of widths and spaces

Table	01 1	viatin	o un	u op	aoco											_
	Н		a		r		r		i		s		0		n	
27.7	9.7	3.0	7.9	4.8	6.0	2.9	6.0	2.9	2.4	3.4	8.0	2.6	8.2	3.7	7.9	١
		Α		v		е										
	12.0	12	.1 1	.6 9.	2 2.	4 e	9 2	7.7								
	R		0		С		k		f		0		r		d	
50.0	9.7	2.2	8.1	2.7	7.9	3.7	7.9	2.5	5.1	2.6	8.2	3.7	6.0	1.8	7.9	50.
<u> </u>	7		12	0 _												
9.8	24.2	112	.0 2	4.2	9.8											

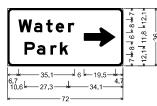
RAMP B 224+60



12.0" Radius, 2.0" Border, White on Green; "EAST", E 2K; "Belvidere", E Mod 2K; right arrow; Table of widths and spaces

Γ					Е		Α		s		T										
L	25.6	24.0) [8	3.0	7.5	0.9	8.2	2 0.9	9 6.	5 0.	8 6.	0 2	25.6	3							
Γ		В		e	,		1		v		i		d	1		е		r		е	
	13.3	9.7	2.3	3 7	7.9	3.8	2.4	3.4	9.3	3.5	2.4	3.	7 7	7. 9	3.7	7.9	3.8	6.0	1.8	7.9	13.3
Ī	44.9	ℰ 24.2	2 4	14.9	9																

RAMP C 310+00



3.0" Radius, 1.0" Border, White on Brown; "Water", E Mod 2K; "Park", E Mod 2K; Standard Arrow Custom 19.5" X 11.8" 0°; Table of widths and spaces

	W		a			t		e 5.3		r	
6.7	8.5	1.2	5.3	3 2	2.3	4.2	1.8	5.3	2.5	4	.(
		1	. T								
	6.0	19	.5	4.	7						
	Р		a			r		k			
10.6	6.4	1.2	2 5	.3	3.2	4.0	1.9	5.3	34	.1	

QUIGG ENGINEERING INC

 USER NAME
 = mwllson
 DESIGNED
 - MW
 REVISED

 PLOT SCALE
 = 0.16666633 '/ in.
 CHECKED
 - FBN
 REVISED

 PLOT DATE
 = 10/9/2023
 DATE
 - 10/13/2023
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED SIGNING
SIGN PANEL DETAILS

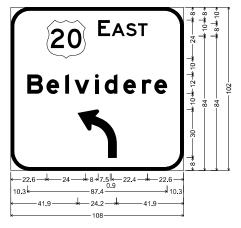
SCALE: 1"=5' SHEET 30 OF 34 SHEETS STA. TO STA.

A.I. SECTION COUNTY TOTAL SHEETS NO. 399 (201-3)K WINNEBAGO 1273 526

CONTRACT NO. 64R71

| ILLINOIS | FED. AID PROJECT

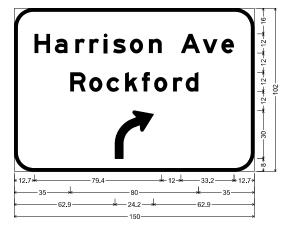
sch-pw.bendey.com:benesch-pw-01/Documents/10800s/10800.00/Eng_Docs/CAD_Sheet



12.0" Radius, 2.0" Border, White on Green, "EAST", E 2K; "Belvidere", E Mod 2K; left arrow; Table of widths and spaces

22.6	3		E		A		S		T									
22.6	24.0	8.0	7.0	0.9	0.2	0.9	0.0	0.0	0.0) 22	0							
	В		e		1	- [-	v		i		d		е		г		е	
10.3	9.7	2.3	7.9	3.8	2.4	3.4	9.3	3.5	2.4	3.7	7.9	3.7	7.9	3.8	6.0	1.8	7.9	10.3
	3																	
41.9	24.2	41.	9															

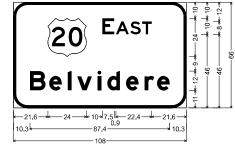
RAMP C 314+70



12.0" Radius, 2.0" Border, White on Green, "Harrison Ave", E Mod 2K; "Rockford", E Mod 2K; right arrow;

rabie	ot v	viatn:	s an	a sp	aces											
	Н		а		r		г		i		s		0		n	
12.7	9.7	3.0	7.9	4.8	6.0	2.9	6.0	2.9	2.4	3.4	8.0	2.6	8.2	3.7	7.9	
		Α		v		е										
	12.0 A V P 1 V 1 1															
	R		0		С		k		f		0		r		d	
35.0	9.7	2.2	8.1	2.7	7.9	3.7	7.9	2.5	5.1	2.6	8.2	3.7	6.0	1.8	7.9	35.0
	8															
62.9	24.2	2 62	.9													

HARRISON AVE 143+50 (EB)



9.0" Radius, 1.5" Border, White on Green, "EAST", E 2K; "Belvidere", E Mod 2K; Table of distances between letter and object lefts

21.6		_								
10.3	В	е	1	v	i	d	e	r	e	
10.3	12 0	11 7	5.8	128	161	11 6	11 7	7.8	79	10.3

QUIGG ENGINEERING INC

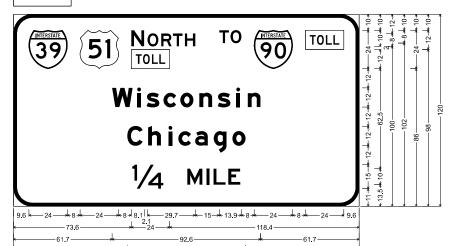
USER NAME = mwilson	DESIGNED - MW	REVISED -	
	DRAWN - MW	REVISED -	
PLOT SCALE = 0.16666633 ' / in.	CHECKED - FBN	REVISED -	
PLOT DATE = 10/9/2023	DATE - 10/13/2023	REVISED -	

			PRO	POS	SED S	IGNIN	G	F.A.I. RTE	SECT	TION	
			SIGN	ΡΔΙ	NEI D	ETAIL	9	39	(201	- 3)K	
			OIOI	1 7	ALL D	LIAIL	.0				
SCALE: 1	"=5"	SHEET	31 OI	34	SHEETS	STA.	TO STA.			ILLINOIS	FED. ALC

WINNEBAGO 1273 527 CONTRACT NO. 64R71

LEFT Plaque is 36" X 18" and LEFT is 8" D 2k font install above sign top left corner

LEFT



12.0" Radius, 2.0" Border, White on Green,

"NORTH", E 2K; Rectangle Fluorescent yellow;

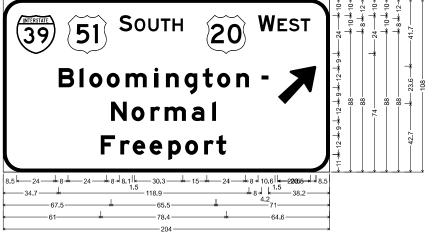
"TO", E 2K, Rectangle Fluorescent yellow,

"Wisconsin", E Mod 2K; "Chicago", E Mod 2K; "1/4 MILE", E 2K;

Table of distances between letter and object lefts

								,						
			N	0	R	Т	Н	- 17	Г	0				
9.6	32.0	32.0	10.2	8.5	7.4	7.4	21	4 7	7.2	14,	.7 (32.0	24.0	9.6
73.6	24.0	118.	4											
	W	i	s	С	0	n		s	∏i		n			
61.7	W 15.6	5.9	10.5	10.6	i 11.	9 1	1.4	11.	6	7.2	7.9	61.	.7	
	С	h	i	С	а	g		0						
71.0	C 13.1	12.7	6.2	10.5	11.	7 11	.6	8.2	7	1.0				
	1/4	М	1	L	Е									
74.3	1/4 34.3	12.0	4.4	9.2	7.5	74.3	3							

HARRISON AVE 143+50 (EB)



12.0" Radius, 2.0" Border, White on Green,

"SOUTH", E 2K; "WEST", E 2K; "Bloomington -", E Mod 2K; "Normal", E Mod 2K; "Freeport", E Mod 2K; Arrow 133 - 30.0" 45°;

Table of distances between letter and object lefts

(#	s	0	U	Т	Н		١.	N E	S	T 4 -14.		7	
8.5	32.0	32.0	9.6	8.6	7.8	7.4	1 21.	5 32	2.0	12.1	7.1 7.4	4 -14.	.0 2	23.5	8.5
	В	1	0	0	m		i	n	g	t	0	n	-		
34.7	13.0	6.2	10.8	11.8	3 18	3.0	7.2	11.7	11.4	4 9.0	11.9	n 15.9	4.2	2 38	.2
	N	0	r	m	а		1					•			_
67.5	N 12.7	o 11.9	r 8.8	m 17.0	a	2.7	1 2.4	71.0						•	
67.5 61.0	_	+	_	+		=		Т	1.		1				_

QUIGG ENGINEERING INC

USER NAME = mwilson	DESIGNED - MW	REVISED -
	DRAWN - MW	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED - FBN	REVISED -
PLOT DATE = 10/9/2023	DATE - 10/13/2023	REVISED -

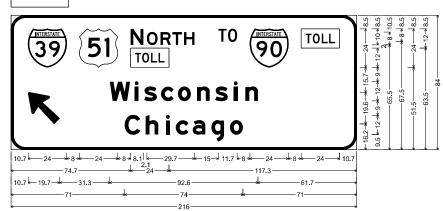
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING	F.A.I. RTE	SECT	ION		COUNTY	TOTAL SHEETS	
SIGN PANEL DETAILS	39	(201-	-3)K		WINNEBAGO	1273	
SIGN FAILL DETAILS					CONTRACT	NO. 64F	3
SCALE: 1"=5' SHEET 32 OF 34 SHEETS STA. TO STA.			ILLINOIS	FED. Al	O PROJECT		

://benesch-pw.bentley.com:benesch-pw-01/Documents/10800s/10800 00/Eng_Docs/CAD_Sheets

LEFT Plaque is 36" X 18" and LEFT is 8" D 2k font install above sign top left corner

LEFT



9.0" Radius, 1.5" Border, White on Green,

"NORTH", E 2K; Rectangle Fluorescent yellow;

"TO", D 2K; Rectangle Fluorescent yellow;

Arrow 80 - 25.0" 135°; "Wisconsin", E Mod 2K; "Chicago", E Mod 2K;

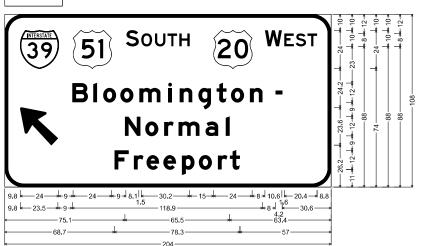
Table of distances between letter and object lefts

10.7	● 32.0	32. 0	N 10.2	0 2 8.5	R 7.4	T 7.3	H 21.5	T 6.0	0 13.7	32.0	24.0	10.7
	24.0		<u> </u>	<u>'</u>								
	K	w	i	s	С	0	n	s	i	n		7
10.7	51.0	W 15.6	i 5.9	s 10.5	c 10.6	o 11.9	n 9 11.	s 4 1	i 1.6 7	n .2 7.9	61.7	
	51.0 C 13.1	-			•	-				n .2 7.9	61.7	

US-20 1312+25 (WB)

LEFT Plaque is 36" X 18" and LEFT is 8" D 2k font install above sign top left corner

LEFT



12.0" Radius, 2.0" Border, White on Green,

"SOUTH", E 2K; "WEST", E 2K; Arrow 133 - 30.0" 135°; "Bloomington -", E Mod 2K;

"Normal", E Mod 2K; "Freeport", E Mod 2K;

Table of distances between letter and object lefts

S O U T H W W E S T

	lacksquare	•	S	0	U	T	Н	- 1		w	E	S	Т			
9.8	33.0	33.0	9.6	8.6	7.8	7.4	21	.4 🕻	32.0	12.2	7.1	7.3	6.0	3.8 C		
	K	В	1	0	0	m		j	n	g	t	0		n	-	
9.8	32.5	13.1	6.1	10.8	11.9	18	0.8	7.2	11.6	11.4	9.0) 11	.9	15.9	4.2	30.6
	N	0	r	m	а	1										
75.1	N 12.7	11.9	8.9	16.9	9 12.	7 2	2.4	63.4	4							
	F	r	е	е	р	C	,	r	t							
68.7	F 12.1	7.8	10.6	11.6	3 10.	6 1	11.8	7.6	6 6.2	2 57.0	o					

QUIGG ENGINEERING INC

 USER NAME
 = mwilson
 DESIGNED
 - MW
 REVISED

 DRAWN
 - MW
 REVISED

 PLOT SCALE
 = 0.16666633 '/ in.
 CHECKED
 - FBN
 REVISED

 PLOT DATE
 = 10/9/2023
 DATE
 - 10/13/2023
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FA.I | SECTION | COUNTY | TOTAL | SECTION | COUNTY | TOTAL | SECTION | STREET | STATE | SECTION | COUNTY | STREET | STATE | STATE | SECTION | COUNTY | STREET | STATE | STAT

Harrison Ave Rockford

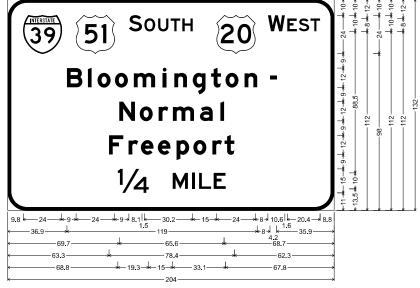
6.0" Radius, 1.3" Border, White on Green, "Harrison Ave", E Mod 2K; "Rockford", E Mod 2K; Table of distances between letter and object lefts

9.7	H 12.7	a 12.7	r 8.9	r 8.9	i 5.8	s	6 1	1.9	n 19	9.9	A 13.7	v 11.6	e 7.9	9.7
32.0	R 11.9	0 10.8	c	6 1	0.4	f 7.7	o 11.9	7	.8	d 7.9	32.0			

US-20 1322+00 (WB)

LEFT Plaque is 36" X 18" and LEFT is 8" D 2k font install above sign top left corner

LEFT



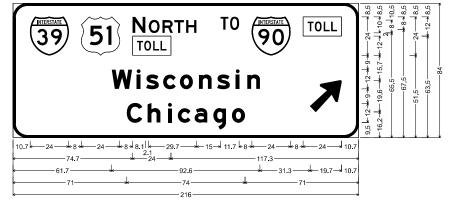
12.0" Radius, 2.0" Border, White on Green;

"SOUTH", E 2K; "WEST", E 2K; "Bloomington -", E Mod 2K; "Normal", E Mod 2K; "Freeport", E Mod 2K, "1/4 MILE", E 2K,

Table of distances between letter and object lefts

0.8	33.0	33.0	S	0	U 7 8	T	H		30	, [N	E 7 1	S	7 F		
-	_				-		_	_		_	$\overline{}$	$\overline{}$	_		-	
	B 13.1	1	0	0	m		i	n		g	t	0		n	-	
36.9	13.1	6.1	10.8	11.9	18	.0	7.2	11.	7	11.4	9.0) 11	.8	16.0	4.2	35.9
	N	0	r	m	а		1									
69.7	N 12.8	11.8	8.9	16.	9 12	2.8	2.4	68	3.7							
	F	r	e	е	р		0	r		t						
63.3	F 12.1	7.8	10.6	11.6	3 10	.6	11.9	7	.5	6.3	62.	3				
	1/4	М	ı	L	E	T										
68.8	1/4 34.3	12.	0 4.4	9.2	7.5	6	7.8									

US-20 1322+00 (WB)



9.0" Radius, 1.5" Border, White on Green,

"NORTH", E 2K; Rectangle Fluorescent yellow;

"TO", D 2K; Rectangle Fluorescent yellow;

"Wisconsin", E Mod 2K; "Chicago", E Mod 2K; Arrow 80 - 25.0" 45°;

Table of distances between letter and object lefts

			N	0	R	т	н	т	0			
10.7	32.0	32.0	10.2	8.5	7.4	7.3	21.5	6.0	13.7	32.0	24.0	1
74.7	24.0	117.	3									
	w	i	s	С	0	n	s	li	n	7		
61.7	15.6	5.9	10.5	10.6	11.9	11.4	4 11.	6 7.	2 39.	2 19.	.7 10.	7
	С	h	i i	С	а	a	0					_
74.0	C 13.1	40.7		40 E	44.7	74.0	م ۾ ا	74.	۱ .			

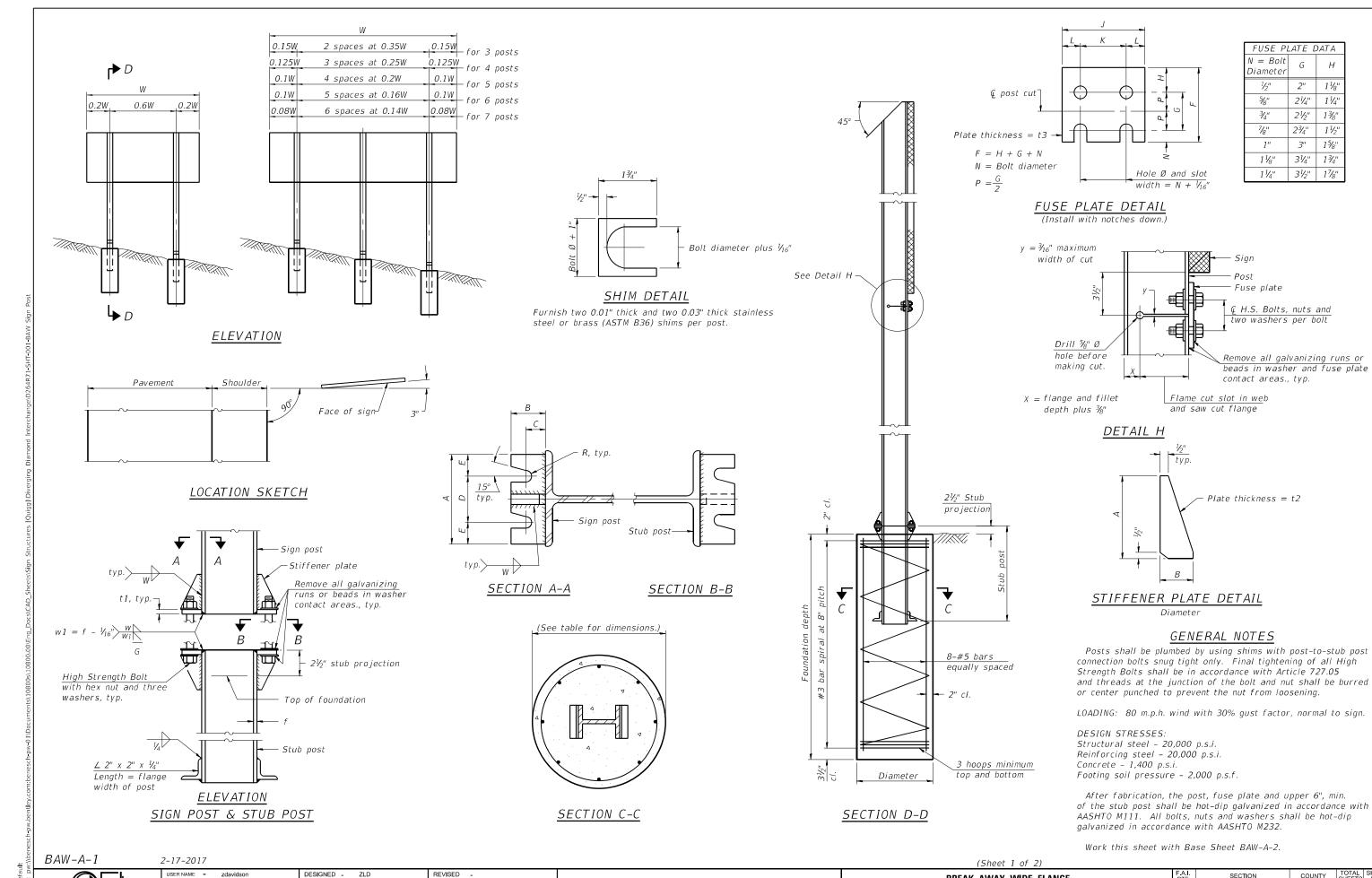
QUIGG ENGINEERING INC

DESIGNED - MW REVISED DRAWN - MW REVISED CHECKED - FBN REVISED PLOT DATE = 10/9/2023 DATE - 10/13/2023 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING SIGN PANEL DETAILS SCALE: 1"=5' SHEET 34 OF 34 SHEETS STA.

SECTION WINNEBAGO 1273 530 (201-3)K CONTRACT NO. 64R71



QUIGG ENGINEERING INC

PLOT DATE = 10/13/2023

D264R71-SHT-001-BAW Sign Post CHECKED - KWB REVISED REVISED CHECKED - MDC REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **BREAK-AWAY WIDE FLANGE** STEEL SIGN POST DETAILS SHEET 1 OF 2 SHEETS

SECTION COUNTY (201-3)K WINNEBAGO 1279 531 CONTRACT NO. 64R71

13/8"

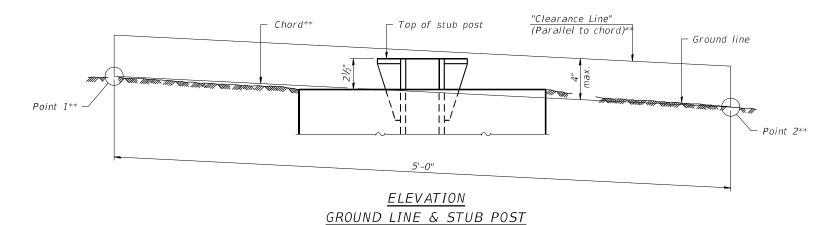
15/8"

000
ij
3
2
~
S
Ė
ċ
7
64R71
26
501
שטר
hanned
٤
Inte
Ξ
i
Ĕ
ä
nuina
Pro
2
_
00
ā
Ξ,
ď
Ē
Ĭ
ΰ
5
5
+
Sho
ď
4
7
Č
0
Ē
č
č
201
ī
ROO
10800
2
tuc
9
Ε
č
7
3
30-0
£
900
her
ou.uu
COD
>
althac
á

		CONCRETE FOUNDATION TABLE									POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA				
POST		Foundation			Reinforcement																		
	Diameter	* Minimum * Depth	Concrete① cu. yds.)		Bar S Diameter	Spirals Length	Ibs. 2	Length	Bolt Size	Α	В	С	D	Ε	t 1	t2	R	W	J	K	L	t3	
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-81/2"	79'-0"	78	2'-3"	5⁄8" x 31⁄4"	6"	21/4"	1 1/4"	3½"	11/4"	3/4"	1/2"	11/32"	1/4"	4"	21/4"	7/8"	1/4"	
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-81/2"	79'-0"	78	2'-6"	5⁄8" x 31⁄4"	6"	21/4"	11/4"	3½"	11/4"	3/4"	1/2"	11/32"	1/4"	6"	31/2"	11/4"	3/8"	
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-81/2"	79'-0"	78	2'-6"	¾" x 3¾"	6"	21/2"	1¾"	31/4"	1¾"	1"	1/2"	13/32"	5∕ ₁₆ "	51/4"	23/4"	11/4"	3/8"	
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-21/2"	105'-0"	92	3'-0"	¾" x 3¾"	6"	21/2"	1¾"	31/4"	1¾"	1"	1/2"	13/32"	5∕ ₁₆ "	5¾"	23/4"	11/2"	1/2"	
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-21/2"	112'-0"	98	3'-0"	7⁄8" x 4"	7"	23/4"	11/2"	4"	1½"	1"	3/4"	15/32"	3/8"	5¾"	23/4"	11/2"	5/8"	
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-21/2"	119'-0"	107	3'-0"	7/ ₈ " x 4"	7"	23/4"	11/2"	4"	1½"	1"	3/4"	15/32"	3/8"	61/2"	31/2"	11/2"	5/8"	
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-81/2"	145'-0"	113	3'-0"	7/ ₈ " x 4"	7"	23/4"	11/2"	4"	11/2"	1"	3/4"	15/32"	3/8"	6¾"	31/2"	15/8"	1/2"	
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-81/2"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	13/4"	4"	13/4"	11/4"	3/4"	¹⁷ / ₃₂ "	3/8"	6¾"	31/2"	15/8"	1/2"	
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-81/2"	162'-0"	130	3'-6"	1" x 4½"	71/2"	3"	13/4"	4"	1¾"	11/4"	3/4"	17/ ₃₂ "	3/8"	7"	31/2"	13/4"	1/2"	

^{*}Dimensional changes required for varying site conditions shall be approved by the Engineer.

										FUS	SE PLATE	BOLT SIZ	E								
POST		Sign Height																			
F 0 3 1	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"																	
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	5⁄8" x 2"	½" x 2"	3/4" x 2"	¾" x 2"	¾″ x 2″	3/4" x 2"												
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	5⁄8" x 2"	5⁄8" x 2"	3/4" x 2"	¾" x 2"	¾" x 2"	3/4" x 2"											
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 2"	5⁄8" x 2"	3/4" x 2 ¹ /4"	3/4" x 2 ¹ /4"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	3/4" x 2 ¹ /4"								
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 2¹/₄"	5⁄8" x 21⁄4"	³ / ₄ " x 2 ¹ / ₂ "	3/4" x 2 ¹ / ₂ "	3/4" x 2 ¹ /2"	3/4" x 2 ¹ / ₂ "	³ / ₄ " x 2 ¹ / ₂ "	3/4" x 21/2"	3/4" x 21/2"							
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5/8" x 21/4"	5⁄8" x 21⁄4"	3/4" x 2 ¹ / ₂ "	3/4" x 21/2"	¾" x 2½"	¾" x 2½"	3/4" x 2 ¹ /2"	3/4" x 2 ¹ /2"	3/4" x 21/2"	3/4" x 21/2"						
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 2"	5⁄8" x 2"	³ / ₄ " x 2 ¹ / ₄ "	3/4" x 21/4"	¾" x 2¼"	¾" x 2¼"	³ / ₄ " x 2 ¹ / ₄ "	3/4" x 2 ¹ /4"	3/4" x 21/4"	3/4" x 21/4"	³ / ₄ " x 2 ¹ / ₄ "	³ / ₄ " x 2 ¹ / ₄ "				
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5/8" x 21/4"	5⁄8" x 21⁄4"	³ / ₄ " x 2 ¹ / ₂ "	3/4" x 21/2"	¾" x 2½"	³ / ₄ " x 2 ¹ / ₂ "	⁷ / ₈ " x 2 ½"	½" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2 ³ / ₄ "
W16x45		½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" × 21⁄4"	5/8" x 2 ¹ / ₄ "	5⁄8" x 21⁄4"	¾" x 2½"	³ / ₄ " x 2 ¹ / ₂ "	7/8" x 2 ¹ /2"	7/8" x 21/2"	⁷ / ₈ " x 2 ¹ / ₂ "	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 23/4"	1" x 2¾"	1" x 2¾"



** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

 $B\Delta W - \Delta - 2$

QUIGG ENGINEERING INC

2-17-2017

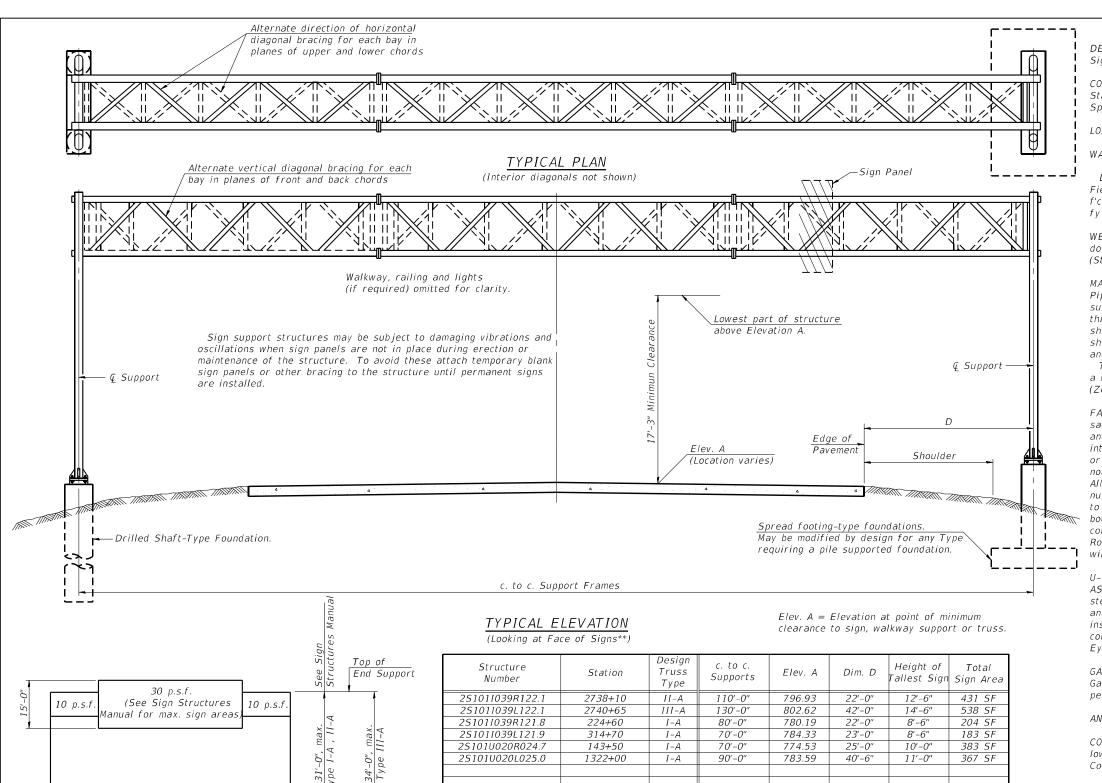
USER NAME = zdavidson	DESIGNED - ZLD	REVISED -
D264R71-SHT-002-BAW Sign Post	CHECKED - KWB	REVISED -
PLOT SCALE = 0.1667'/in.	DRAWN - ZLD	REVISED -
PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(Sheet 2 of 2)

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST TABLES

SHEET 2 OF 2 SHEETS



25101U020L025.0 1322+00 I-A 90'-0" 783.59 40'-6" 11'-0" 367 SF

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES: Field Units f'c = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Allovs as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate. and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	310
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	110
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	130
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	247
CONCRETE FOUNDATIONS	Cu. Yds.	-
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	202.1

QUIGG ENGINEERING INC

analysis for all components.

Maximum Length

c. to c. Support Frames (See Sign Structures Manual)

DESIGN WIND LOADING DIAGRAM

2-17-2017

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special

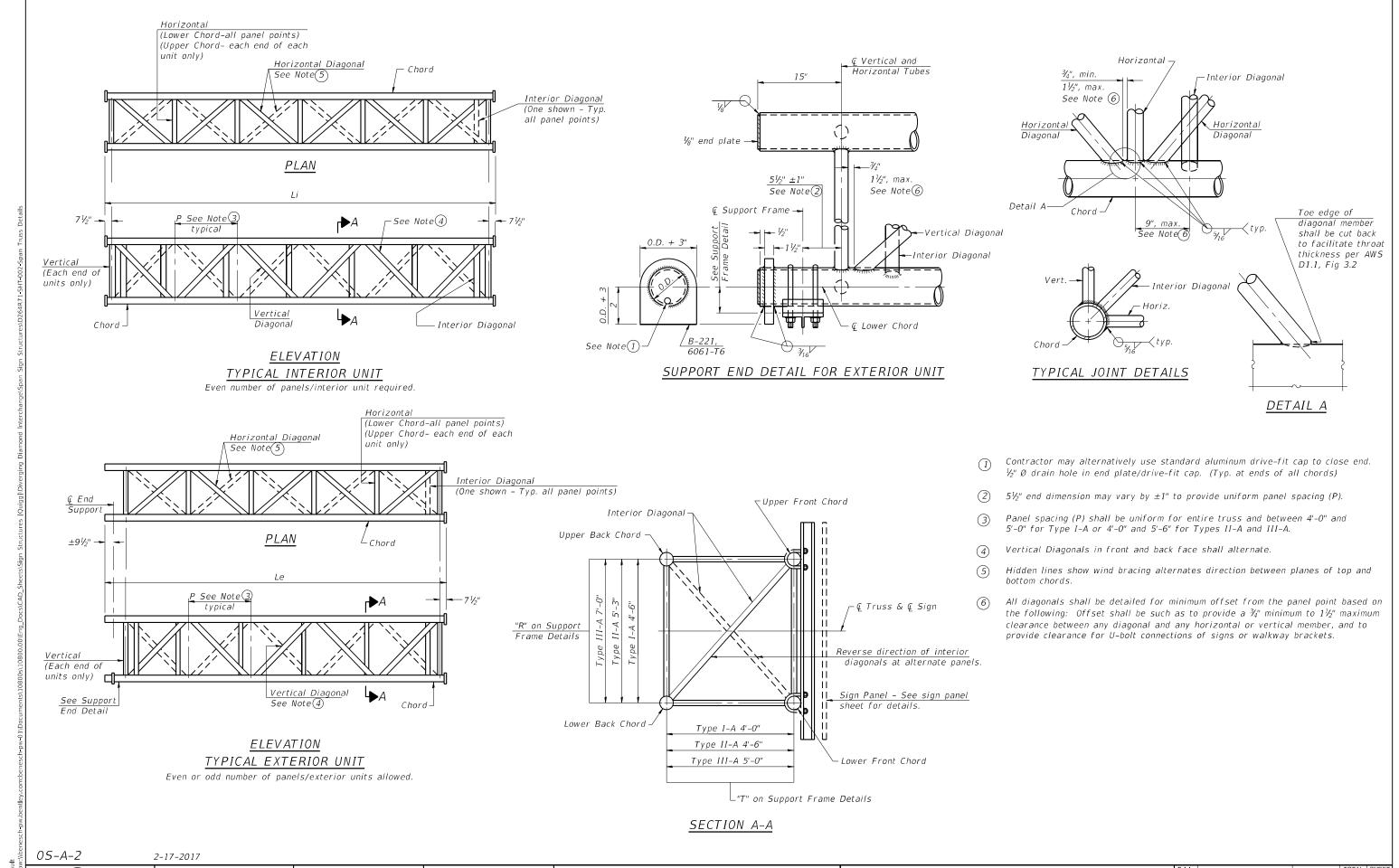
> DESIGNED - ZLD REVISED D264R71-SHT-001-Span GPE CHECKED - KWB REVISED OT SCALE = 0.1667 ' / in ZLD REVISED PLOT DATE = 10/13/2023 CHECKED - MDC REVISED .

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS SHEET 1 OF 22 SHEETS

SECTION COUNTY (201-3)K WINNEBAGO 1279 533 CONTRACT NO. 64R71 LILINOIS FED AID PROJECT

^{**}Looking upstation for structures with signs both sides



EILE NAME:

QUIGG ENGINEERING INC

 USER NAME
 =
 zdavidson
 DESIGNED
 ZLD
 REVISED

 D264R71-SHT-002-Span Truss Details
 CHECKED
 KWB
 REVISED

 PLOT SCALE
 =
 0.1667 ' / in.
 DRAWN
 ZLD
 REVISED

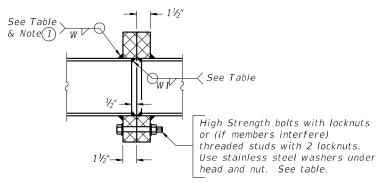
 PLOT DATE
 =
 10/13/2023
 CHECKED
 MDC
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

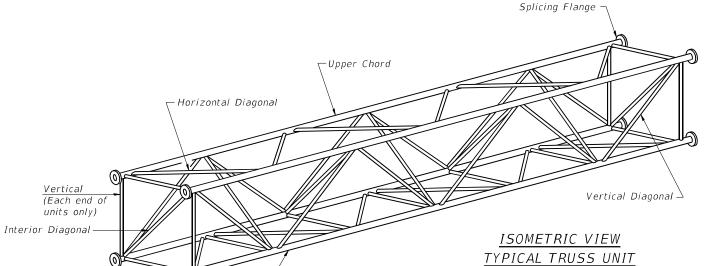
SHEET 2 OF 22 SHEETS

Structure		Design Truss	Exte	erior Units		Interior Unit				& Lower	Verticals; Horizontals; Vertical,Horizontal,		Camber at	Splicing Flange							
Number	Station	Type	No. Panels		Panel	No.	No. Panels	Unit	Panel	Chord		and Interior Diagonals		Midspan	Bolts		Weld Sizes			D	
		1,750	per Unit	Lgth.(Le)	Lgth.(P)	Req'd.	per Unit	Lgth.(Li)	Lgth.(P)	0.D.	Wall	0.D.	Wall	maspan	No./Splice	Dia.	W	W 1	A	В В	
2S101I039R122.1	2738+10	II-A	7	39'-2 ¹ / ₂ "	5'-4"	1	6	33'-3"	5'-4"	6½"	5∕ ₁₆ "	3"	⁵ / ₁₆ "	35/8"	6	1"	3/8"	1/4"	11"	141/2"	
2S101I039L122.1	2740+65	III-A	6	33'-3"	5'-2¾"	2	6	32'-7½"	5'-23/4"	81/2"	1/2"	3½"	⁵ / ₁₆ "	3¾"	8	11/4"	%16"	7/16"	13"	16½"	
251011039R121.8	224+60	I-A	5	25'-10"	4'-91/2"	1	6	30'-0"	4'-91/2"	5"	5∕ ₁₆ "	21/2"	⁵ / ₁₆ "	21/4"	6	7/8"	5/ ₁₆ "	1/4"	8¾"	113/4"	
2S101I039L121.9	314+70	I-A	7	35'-8½"	4'-10"	0	-	-	-	5"	5∕ ₁₆ "	21/2"	⁵ / ₁₆ "	13/4"	6	7/8"	5/16"	1/4"	8¾"	113/4"	
2S101U020R024.7	143+50	I-A	7	35'-8½"	4'-10"	0	-	-	-	5"	5∕ ₁₆ "	21/2"	5/ ₁₆ "	13/4"	6	7/8"	5/16"	1/4"	8¾"	113/4"	
25101U020L025.0	1322+00	I-A	6	30'-9"	4'-9¾"	1	6	30'-1½"	4'-9¾"	5"	5∕ ₁₆ "	21/2"	5∕ ₁₆ "	23/4"	6	7/8"	5∕ ₁₆ "	1/4"	8¾"	113/4"	



SECTION B-B

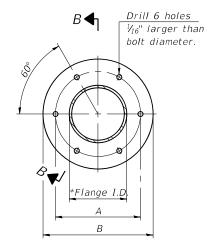
1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



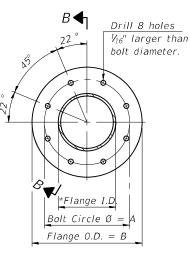
Lower Chord Note:

> detrimental motion during transport. This may require ropes between The Contractor is responsible for maintaining the configuration and protection of the units.

ASTM B221 Alloy 6061 Temper T6 Units shall be shipped individually with adequate provision to prevent horizontals and diagonals or energy dissipating (elastic) ties to the vehicle.



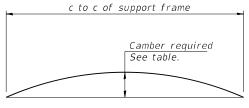
TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit O.D. of Chord with maximum gap of V_{16} ".



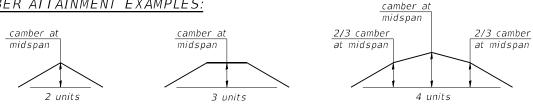
(Upper Chord - each end of each unit only)

(Lower Chord - all panel points)

CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

054-A-2

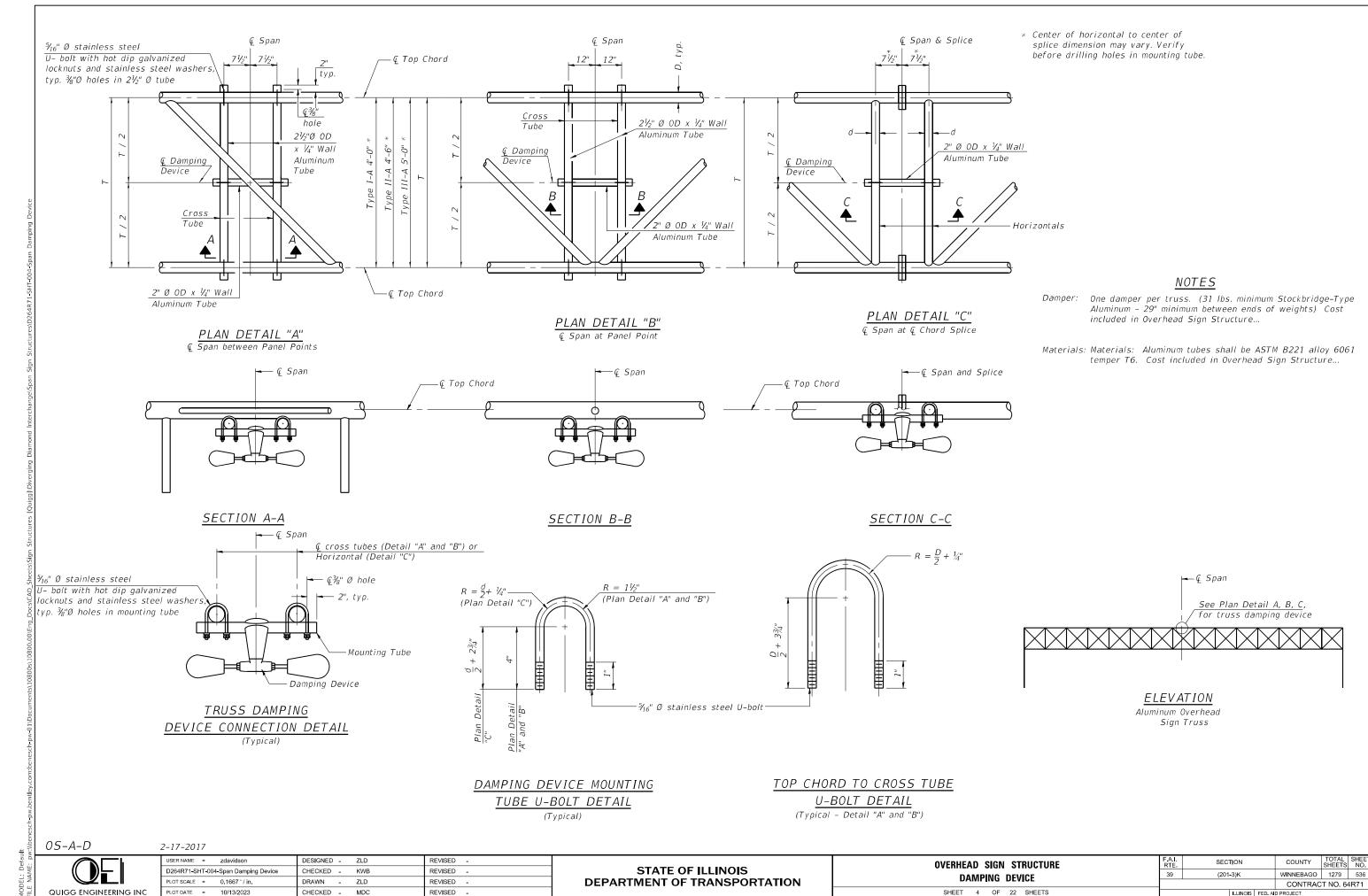
QUIGG ENGINEERING INC

2-17-2017

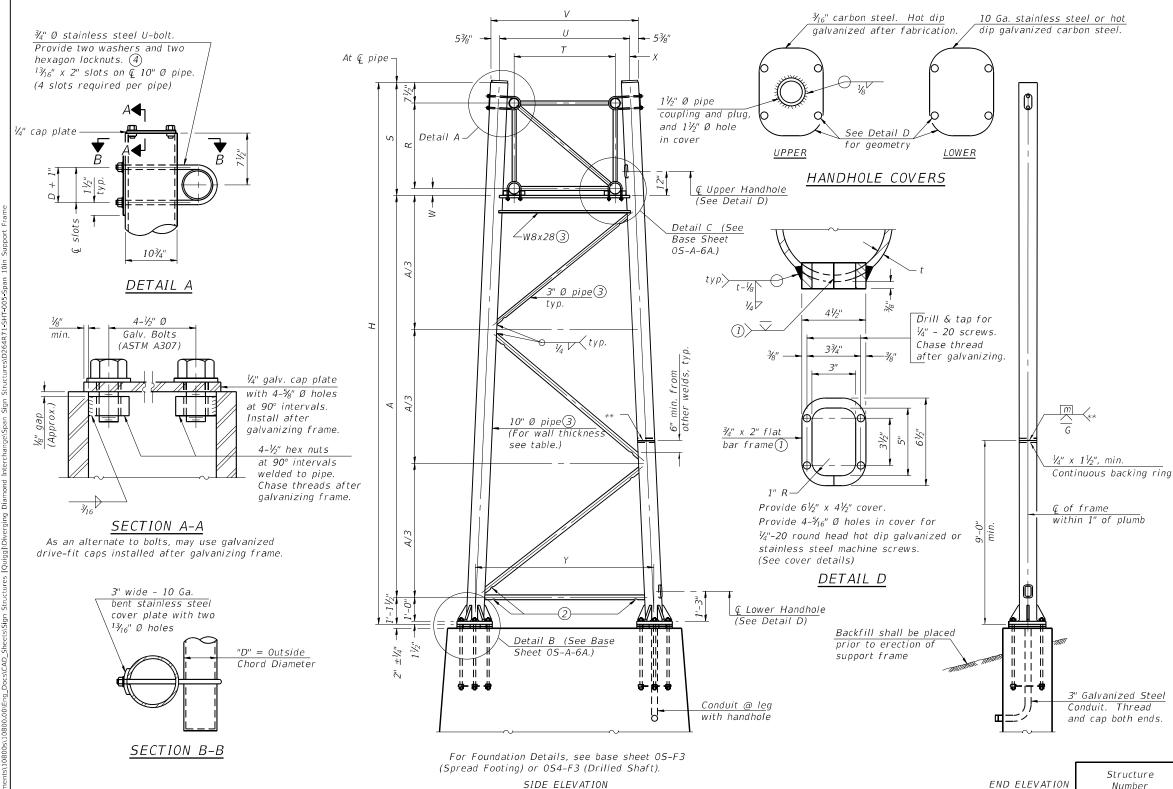
USER NAME = zdavidson	DESIGNED - ZLD	REVISED -
D264R71-SHT-003-Span Truss Details	CHECKED - KWB	REVISED -
PLOT SCALE = 0.1667'/in.	DRAWN - ZLD	REVISED -
PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS (201-3)K WINNEBAGO 1279 535 FOR TRUSS TYPES I-A, II-A AND III-A CONTRACT NO. 64R71 SHEET 3 OF 22 SHEETS



10/11/2023 8:49:45 AM



Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

Load combinations checked include deadload plus:

- a) 100% wind normal to sign, 20% parallel to sign
- b) 60% wind normal to sign, 30% parallel to sign
- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- 2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- (3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- (4) See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- 6 "H" based on 15'-0" or actual sign height, whichever is areater.

SIDE ELEVATION

Truss				Dimen	sions			
Туре	R	S	T	U	V	W	X	Υ
I-A	4'-6"	5'-5 ¹ / ₂ "	4'-0"	5'-6"	6'-43/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-31/4"	4'-6"	6'-1"	6'-11¾"	43/4"	91/2"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure	Station	Sup	port	Truss	Pipe Wall	Н	
Number	Station	Left	Right	Туре	Thickness	6	A
25101I039R122.1	2738+10	Х		II-A	0.365"	27'-2"	19'-9 ¹ / ₄ "
			Χ	II-A	0.365"	30'-11"	23'-6 ¹ / ₄ "
25101I039R121.8	224+60	Χ		I-A	0.279"	29'-7"	23'-0"
			Χ	I-A	0.279"	28'-1"	21'-6"
25101I039L121.9	314+70	X		I-A	0.279"	30'-9"	24'-2"
			Χ	I-A	0.279"	29'-7"	23'-0"
25101U020R024.7	143+50	X		I-A	0.279"	24'-8"	18'-1"
			Χ	I-A	0.279"	29'-3"	22'-8"
25101U020L025.0	1322+00	X		I-A	0.279"	24'-9"	18'-2"
			Χ	I-A	0.365"	33'-3"	26'-8"

05-A-6

QUIGG ENGINEERING INC

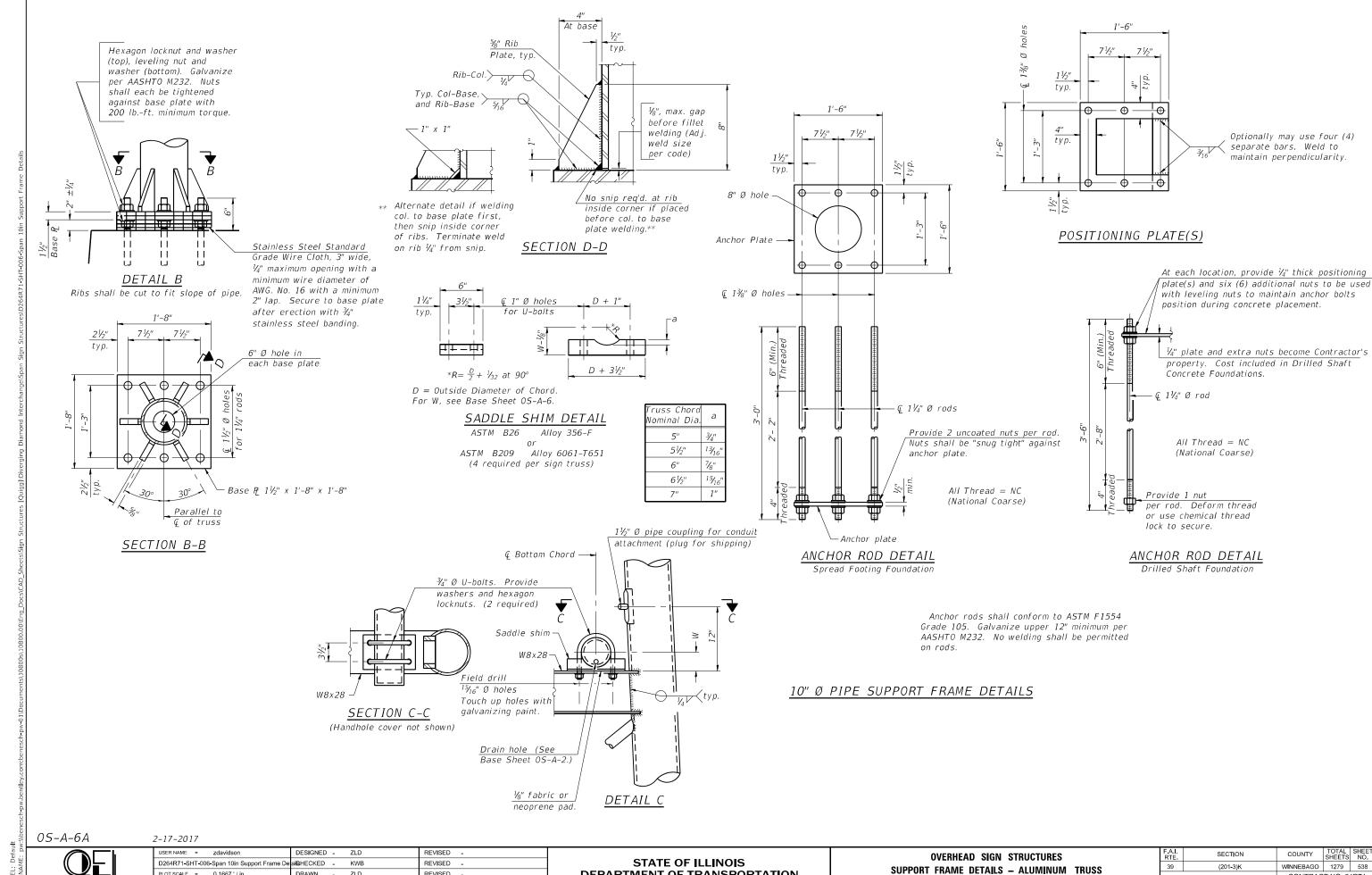
2-17-2017

DESIGNED - ZLD REVISED -D264R71-SHT-005-Span 10in Support Frame CHECKED - KWB REVISED -LOT SCALE = 0.1667 ' / in. REVISED PLOT DATE = 10/13/2023 CHECKED - MDC REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES SUPPORT FRAME FOR ALUMINUM TRUSS SHEET 5 OF 22 SHEETS

SECTION COUNTY (201-3)K WINNEBAGO 1279 537 CONTRACT NO. 64R71



DEPARTMENT OF TRANSPORTATION

SHEET 6 OF 22 SHEETS

CONTRACT NO. 64R71

QUIGG ENGINEERING INC 10/11/2023 8:49:55 AM

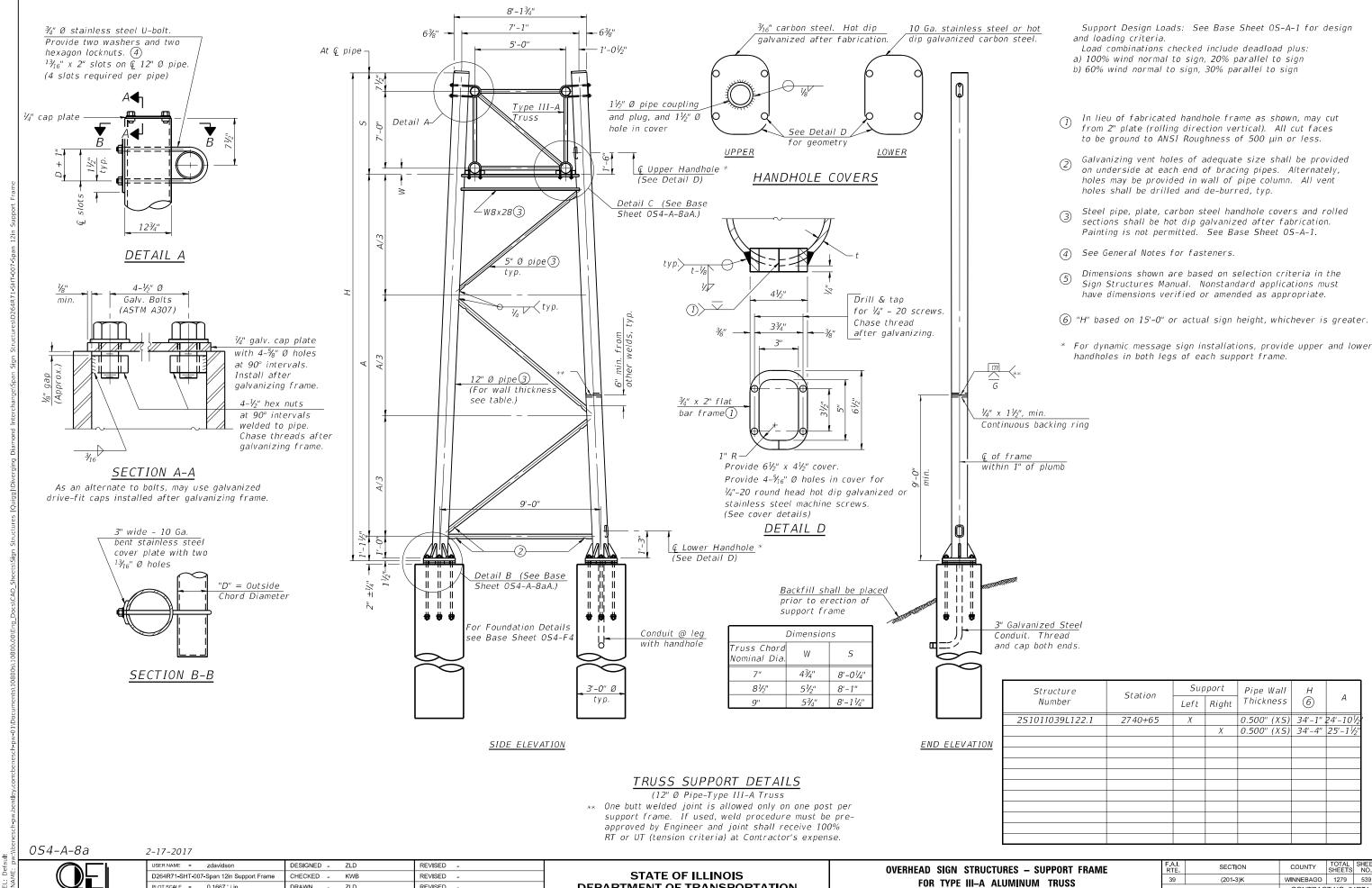
DRAWN

CHECKED - MDC

PLOT DATE = 10/13/2023

REVISED

REVISED -



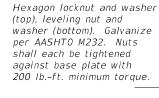
REVISED QUIGG ENGINEERING INC PLOT DATE = 10/13/2023 CHECKED -REVISED . MDC

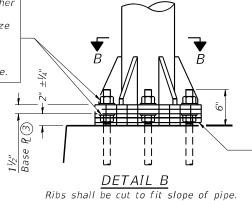
DEPARTMENT OF TRANSPORTATION

FOR TYPE III-A ALUMINUM TRUSS

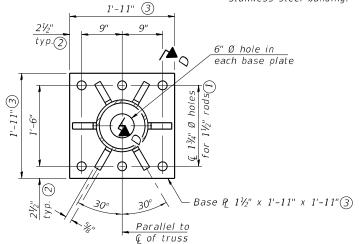
SHEET 7 OF 22 SHEETS

WINNEBAGO 1279 539 CONTRACT NO. 64R71

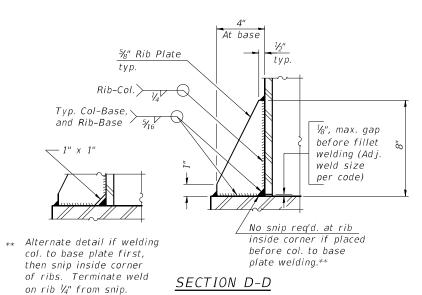


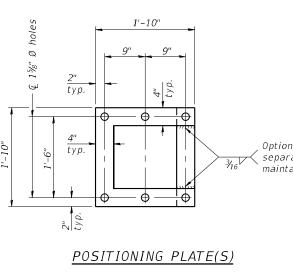


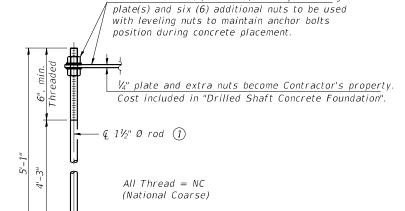
Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with ¾" stainless steel banding.



SECTION B-B







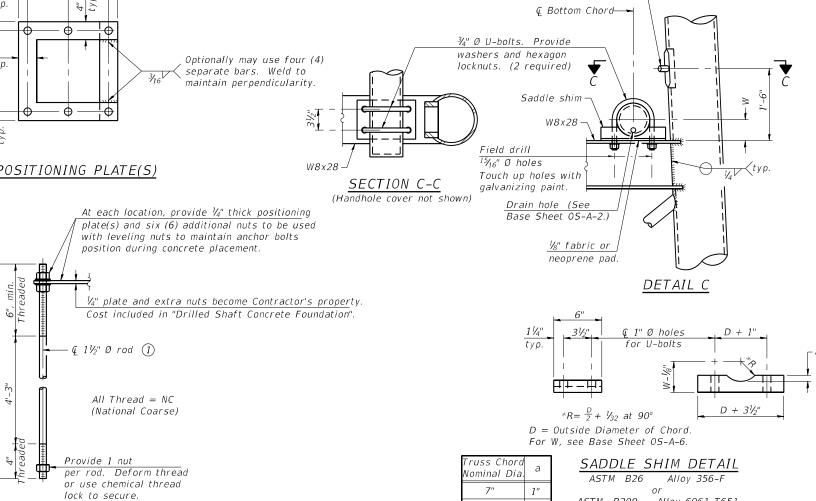
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE III-A TRUSS 12" Ø PIPE SUPPORT FRAME DETAILS

For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- 1 1 ¾ g rod, 2" Ø holes
- (2) 2¾" edge distance
- ③ Base P₂ 15/8" x 1'-111/2" x 1'-111/2"



81/2"

11/4"

ASTM B209 Alloy 6061-T651 (4 required per sign truss)

 $1\frac{1}{2}$ " Ø pipe coupling for conduit attachment (plug for shipping)

054-A-8aA

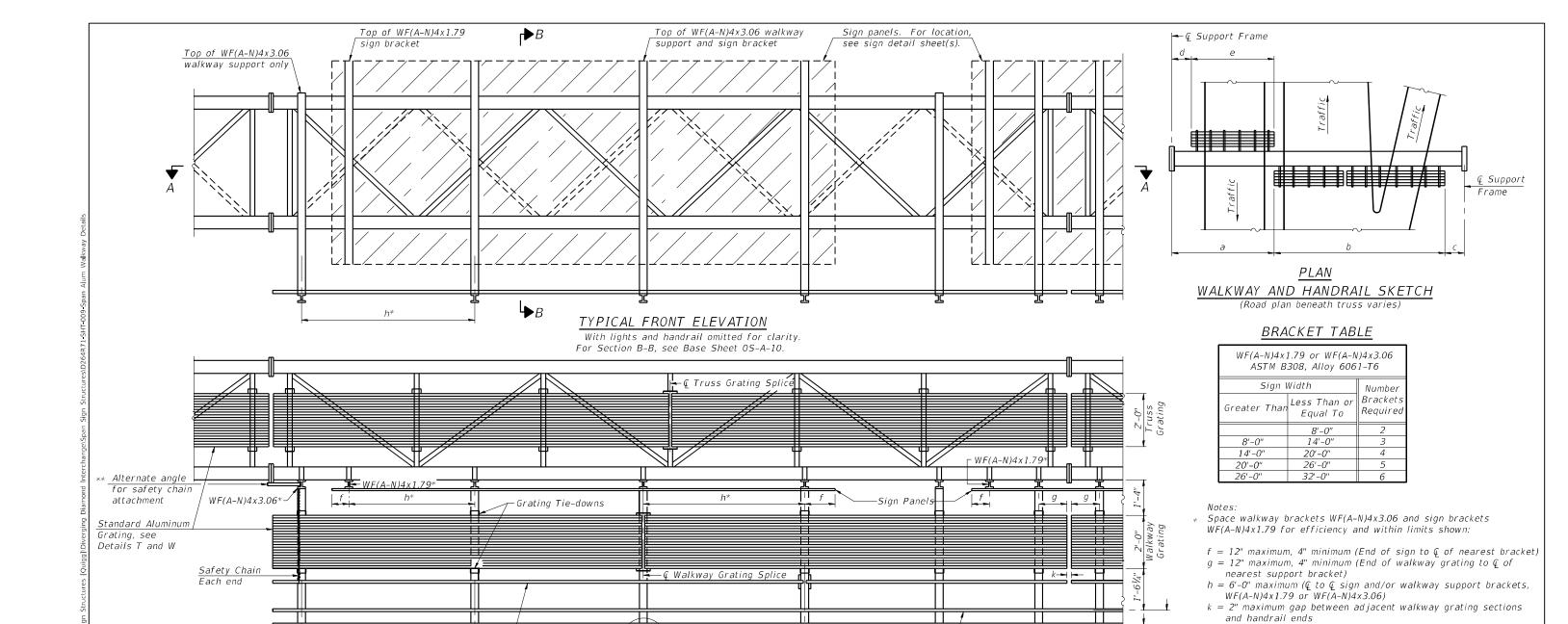
2-17-2017



USER NAME	=	zdavidson	DESIGNED	-	ZLD	REVISED	-
D264R71-SH	HT-008	-Span 12in Support Frame De	a iß HECKED	-	KWB	REVISED	-
PLOT SCALE	=	0.1667 ' / in.	DRAWN	-	ZLD	REVISED	-
PLOT DATE	=	10/13/2023	CHECKED	-	MDC	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS	39	(201-3)K	WINNEBAGO	1279	540
3011 OH1 THAME TOH THE HI-A ALUMINUM THOSS			CONTRAC	T NO. 64	4R71
SHEET 8 OF 22 SHEETS		ILLINOIS FED. A	D PROJECT		



see 05-A-11

SECTION A-A

- Handrail, see OS-A-11

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Details F and G

Structure Number	Station	a	b	С	d	е	Walkway Grating and Handrail Lengths
2S101I039R122.1	2738+10	18'-0"	44'-0''	48'-0"	-	_	44'-0"
2S101I039L122.1	2740+65	38'-0"	48'-0"	44'-0"	-	-	48'-0"
2S101I039R121.8	224+60	22'-0"	40'-0"	18'-0"	-	-	40'-0"
25101I039L121.9	314+70	23'-0"	24'-0"	23'-0"	-	-	24'-0"
2S101U020R024.7	143+50	6'-0"	44'-0"	20'-0"	-	-	44'-0"
2S101U020L025.0	1322+00	5'-0"	47'-0"	38'-0"	-	-	47'-0"
		·	·				

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

on Base Sheet OS-A-11.

Base Sheet OS-A-10.

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment

For Handrail Details see Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see

Walkway and Truss Grating width dimensions are nominal and may vary $\pm \frac{1}{2}$ " based on available standard widths.

05-A-9

QUIGG ENGINEERING INC

2-17-2017

 USER NAME
 =
 zdavidson
 DESIGNED
 ZLD
 REVISED

 D264R71-SHT-009-Span Alum Walkway Details
 CHECKED
 KWB
 REVISED

 PLOT SCALE
 =
 0.1667 '/ in.
 DRAWN
 ZLD
 REVISED

 PLOT DATE
 =
 10/13/2023
 CHECKED
 MDC
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

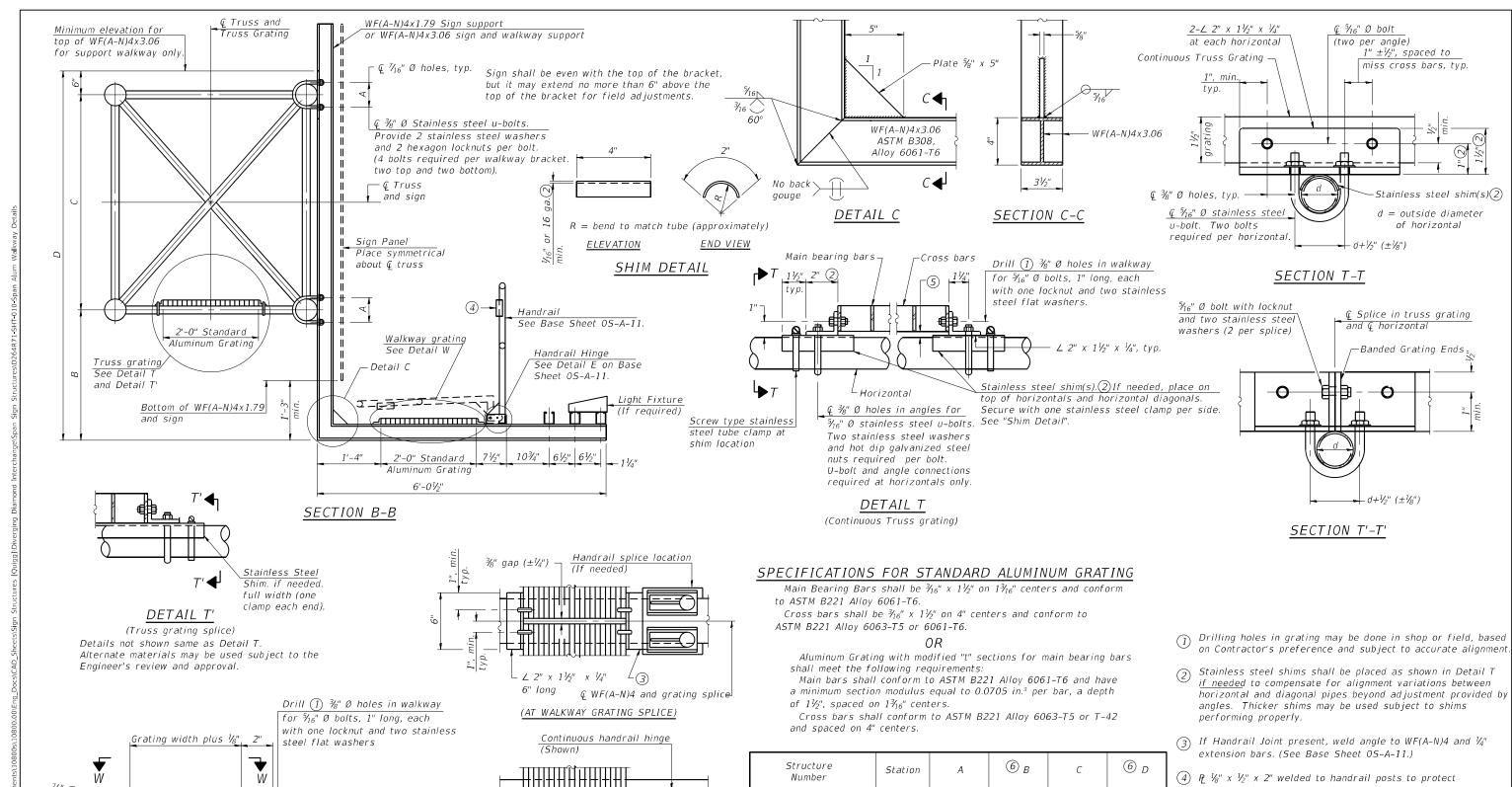
SHEET 9 OF 22 SHEETS

Light fixture supports.

Length as required for lighting fixtures. (If required)

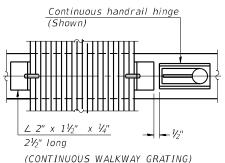
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	NO.
39	(201-3)K	WINNEBAGO	1279	541
CONTRACT NO. 64R71	ILLINOIS	FED. AID PROJECT		

10/11/2023 8:50:06 AM



∠ 2" x 1½" x ¼" $2\frac{1}{2}$ " long at continuous grating, 6" long at grating splices.

DETAIL W (Walkway grating)



SECTION W-W

25101I039R122.1 2738+10 4'-101/5" 5'-3" 10'-71/2" 12'-6" 8'-3" 25101I039L122.1 2740+65 7'-0' 5'-0' 3'-3" 25101I039R121.8 224+60 4'-6" 2S101I039L121.9 314+70 51/5" 3'-3" 4'-6" 8'-3" 25101U020R024.7 143+50 51/2 4'-0" 4'-6" 9'-0" 25101U020L025.0 4'-6" 4'-6" 9'-6" 1322+00

- 1) Drilling holes in grating may be done in shop or field, based
- horizontal and diagonal pipes beyond adjustment provided by
- locations that contact grating.
- 5 Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.
- $\stackrel{\hbox{\scriptsize (6)}}{}$ Based on actual height of tallest sign given on OS-A-1.

05-A-10

2-17-2017

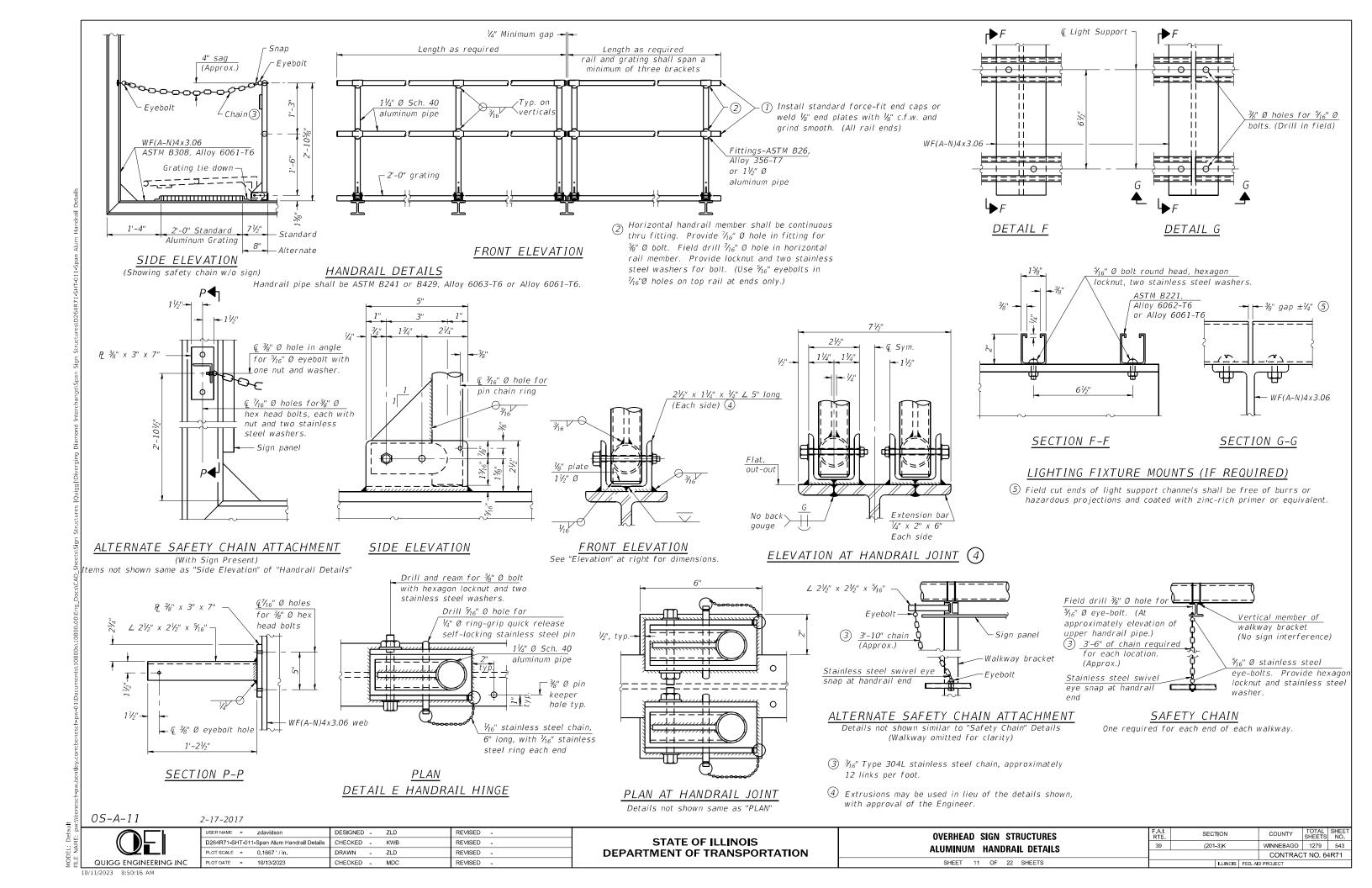
 $\langle \frac{3}{typ.} \frac{\text{sides}}{3} \rangle$

	USER NAME = zdavidson	DESIGNED - ZLD	REVISED -
	D264R71-SHT-010-Span Alum Walkway Details	CHECKED - KWB	REVISED -
	PLOT SCALE = 0.1667'/in.	DRAWN - ZLD	REVISED -
2	PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES	F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ALUMINUM WALKWAY DETAILS	39	(201-3)K		WINNEBAGO	1279	542
ALOMINOM WALKWAI DETAILS				CONTRAC	T NO. 6	4R71
SHEET 10 OF 22 SHEETS		ILLINOIS	FED. All	D PROJECT		

QUIGG ENGINEERING INC 10/11/2023 8:50:11 AM



BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
∨4(E)	24	#9	F less 5"	
#4 ba	ar spiral	(E) - see	Side Eleva	tion

NOTES

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

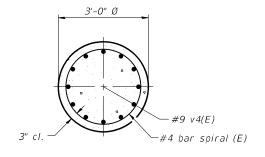
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

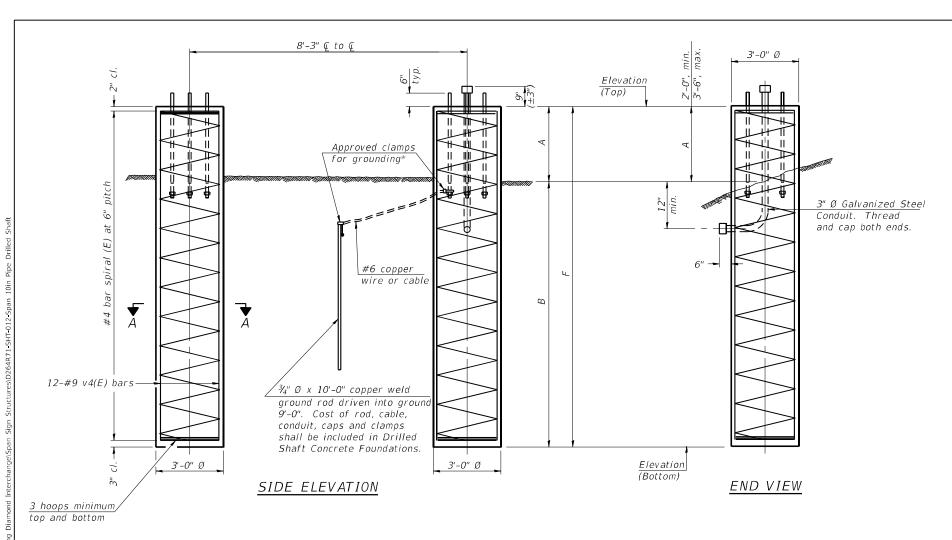
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

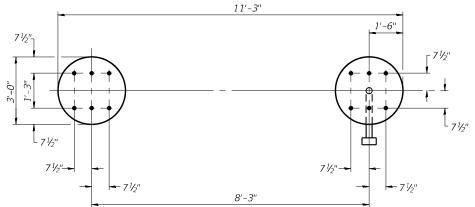
A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

DETAILS FOR 10" Ø SUPPORT FRAME TYPE I-A or II-A TRUSS





For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

PLAN

Ctructuro				Left Fo	oundation			Right F	oundation			Class DS
Structure Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
2S101I39R122.1	2738+10	798.87	764.37	3'-6"	31'-0"	34'-6"	795.15	760.65	3'-6"	31'-0"	34'-6"	36.2
25101139R121.8	224+60	779.36	750.86	3'-6"	25'-0"	28'-6"	780.88	752.38	3'-6"	25'-0"	28'-6"	29.9
2S101I39L121.9	314+70	782.30	759.80	3'-6"	19'-0"	22'-6"	783.51	761.01	3'-6"	19'-0"	22'-6"	23.6
2S101U020R024.7	143+50	-	-	-	-	-	773.99	742.49	3'-6"	28'-0"	31'-6"	16.5
2S101U020L025.0	1322+00	-	-	-	-	-	779.13	749.63	3'-6"	26'-0"	29'-6"	15.5

054-F3

QUIGG ENGINEERING INC

2-17-2017

 USER NAME
 =
 zdavidson
 DESIGNED
 ZLD
 REVISED

 D264R71-SHT-012-Span 10in Pipe Drilled Shaft
 CHECKED
 KWB
 REVISED

 PLOT SCALE
 =
 0.1667 '/ in.
 DRAWN
 ZLD
 REVISED

 PLOT DATE
 =
 10/13/2023
 CHECKED
 MDC
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SHEET 12 OF 22 SHEETS

MODEL: Def FILE NAME:

E QUIGG ENGINEERIN

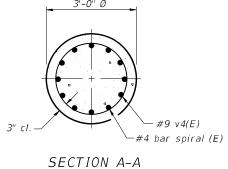
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	
#4 ba	ar spiral	(E) - see	Side Eleva	tion

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation

concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



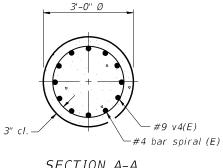
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on



* Anchor rod shall be ground or

3" Ø Galvanized Steel

Conduit. Thread

and cap both ends.

DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS

Chamatan				Left Fo	oundation			Right F	oundation			Class DS
Structure Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
251011039L122.1	2740+65	798.53	770.03	3'-6"	25'-0"	28'-6"	798.28	769.78	3'-6"	25'-0"	28'-6"	29.9

QUIGG ENGINEERING INC

2-17-2017

#4 bar spiral (E) at 6" pitch

12-#9 v4(E) bars -

3 hoops minimum top and bottom

> DESIGNED - ZLD REVISED -D264R71-SHT-013-Span 12in Pipe Drilled Shaft CHECKED - KWB REVISED -LOT SCALE = 0.1667 ' / in. REVISED PLOT DATE = 10/13/2023 CHECKED - MDC REVISED -

9'-0" & to &

₹

3'-0" Ø

Approved clamps for grounding*

> #6 copper wire or cable

> > 3'-0" Ø

³¾" Ø x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled Shaft Concrete Foundations.

SIDE ELEVATION

12'-0"

9'-0"

PLAN

Elevation (Top)

> Elevation (Bottom)

END VIEW

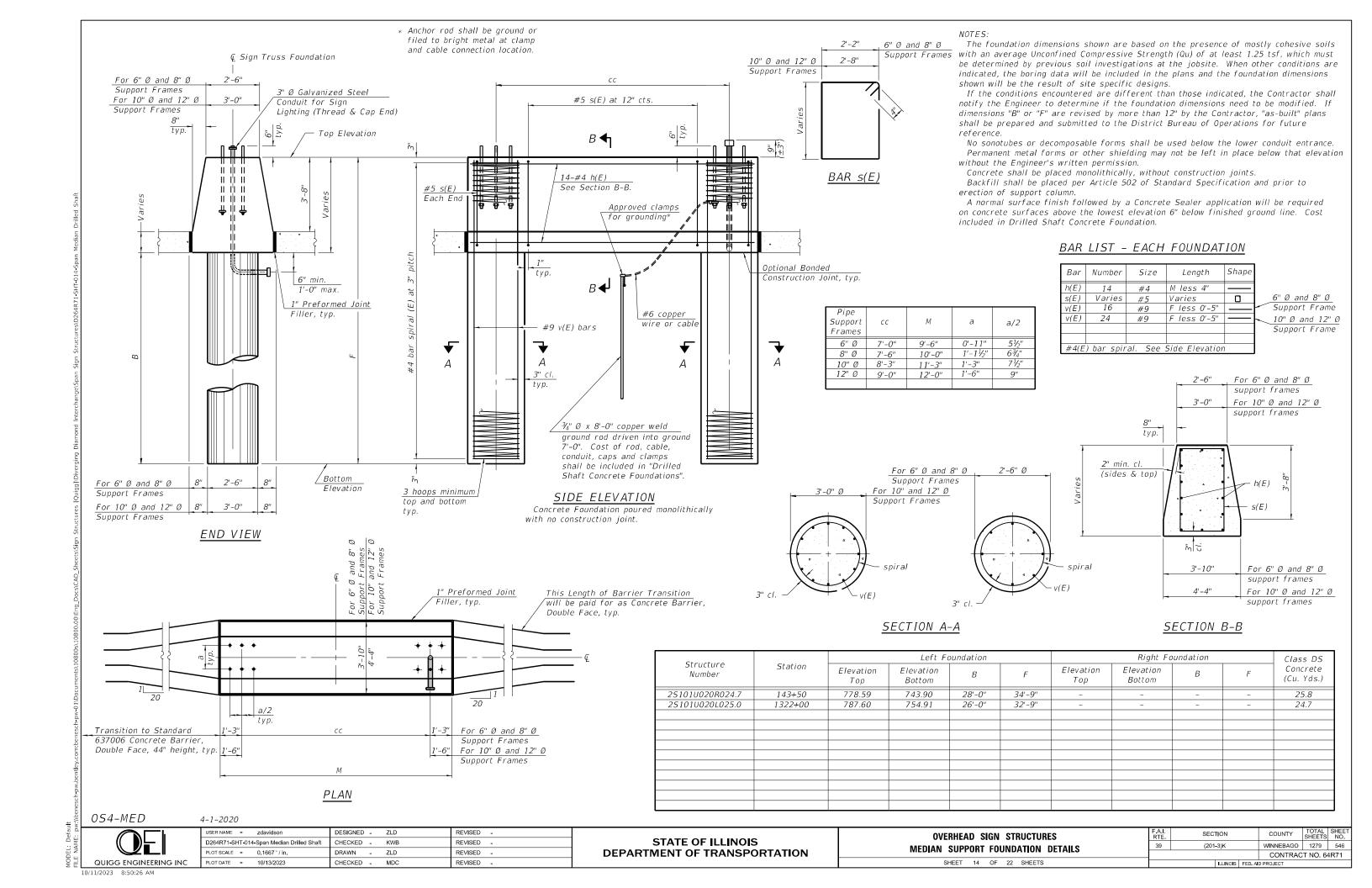
For anchor rod size and placement,

filed to bright metal at clamp and cable connection location.

see Support Frame Detail Sheet.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **OVERHEAD SIGN STRUCTURES** DRILLED SHAFT DETAILS SHEET 13 OF 22 SHEETS

SECTION COUNTY (201-3)K WINNEBAGO 1279 545 CONTRACT NO. 64R71



Page <u>1</u> of <u>1</u>

FAI 39 (I-39) DESCRIPTION (201-3)K LOCATION Rockford, SE 1/4 35, SEC., TWP. 44N, RNG. 2E SECTION COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic 42° 14' 33.23" Latitude Northing 2,033,214.7808 Longitude -88° 57' 47.84" Easting 2,622,423.2598 STRUCT. NO. 2738+10 Surface Water Elev. U Stream Bed Elev. S О BORING NO. Groundwater Elev.: W Station 2738+10 First Encounter Qu Qu 75.00ft Rt of NB CL Upon Completion Dry ft Ground Surface Elev. 91.00 (/6") (tsf) (%) After Hrs. (ft) (/6") (tsf) (%) VERY STIFF tan SANDY LOAM MEDIUM brown SILTY CLAY 22 3.3 LOAM TILL (continued) 0.6 20.0 33 S 89.00 VERY DENSE tan MOIST SAND MEDIUM light brown SANDY LOAM TILL with MEDIUM GRAVEL 12.0 0.8 30 38 S 87.50 DENSE tan SANDY LOAM TILL STIFF tan SANDY LOAM TILL 1.3 8.0 23 8.0 Р 9 22 85.00 End of Boring MEDIUM tan SANDY LOAM TILL 22 with SAND LENS 7.0 12 82.50 VERY DENSE tan SANDY LOAM 15 TILL 29 97 80.00 Hard drilling VERY DENSE tan SANDY LOAM 34 TILL with SAND LENS 50 77.50 VERY DENSE tan SANDY LOAM 6.0 28 26 75.00 VERY DENSE tan SANDY LOAM 12 26 27 72.50

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

But Indian of Highways IDOT

ROUTE FAI 39 (I-39) DESCRIPTION

SECTION

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date <u>8/30/23</u>

P92-111-06 - Various proposed sign trusses at I-39 and Harrison Avenue LOGGED BY W. Garza

(201-3)K LOCATION Rockford, SE 1/4 35, SEC., TWP. 44N, RNG. 2E

	-				_		ord, SE 1/4 35, SEC., I			CN	/IE-75	Autom	atic
STRUCT. NO.	NBL						9.32"	Northing Easting					_
Offset	2738+10 B-2a 2738+10 38.00ft Lt of NB Cl se Elev. 98.00	<u>L</u>	P T H	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev Stream Bed Elev Groundwater Elev.: First Encounter _ Upon Completion _ After Hrs.	None Dry	ft ft	Н	B L O W S	U C s Qu (tsf)	M O I S T
MEDIUM brown LOAM	SILTY CLAY	96.00		,		15.0	HARD tan SANDY LO (continued)	AM TILL	77.00		15 20	4.4 S	8.0
STIFF brown SI	LTY CLAY LOAM	94.50	\exists	2 3 4	1.1 B	34.0	VERY DENSE tan SA TILL	NDY LOAM			17 19 27		
MEDIUM gray S LOAM	SILTY CLAY	92.00	-5	2 2 4	0.6 B	31.0	DENSE tan DRY FINE	E SAND	73.50	-25	12 21 27		
MEDIUM gray S	SANDY LOAM	89.50		2 3 4	0.6 B	16.0	End of Boring						
SOFT gray SAN	IDY LOAM	87.00	-10	4 6	0.4 B	24.0				-30			
SOFT gray SAN STIFF tan SANI VERY STIFF tal TILL	DY LOAM TILL	84.50		4 6 7	1.3 S	9.0							
VERY STIFF tal	n SANDY LOAM	82.00	-15	4 6 9	3.6 P	9.0				-35			
5	NDY LOAM TILL	79.50		8 13 18									
HARD tan SAN	DY LOAM TILL		-20	10						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Ground Surface Elev. 91.00 = 788.33

The elevation datum was taken from the pavement crown at the center of the structure, which has been arbitrarily assigned an elevation of 100.00. This daum should be converted to USGS datum. Elevation 100.00 = 797.33.

Ground Surface Elev. 98.00 = 795.33



USER NAME = zdavidson	DESIGNED - ZLD	REVISED -	
D264R71-SHT-015-Span Boring	CHECKED - KWB	REVISED -	
PLOT SCALE = 0.1667'/in.	DRAWN - ZLD	REVISED -	
PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -	

FAI 39 (I-39)

DESCRIPTION

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

LOCATION Rockford, SE 1/4 35, SEC., TWP. 44N, RNG. 2E SECTION Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic COUNTY 42° 14' 35.82" 2,033,476.8377 Latitude Longitude -88° 57' 47.80" Easting 2,622,422.5380 STRUCT. NO. 2740+65 Surface Water Elev. U Stream Bed Elev. 0 S 0 BORING NO. Groundwater Elev.: w W 2740+65 First Encounter Qu Qu 74.00ft Lt of SB CL Upon Completion Ground Surface Elev. 90.70 (/6") (tsf) (%) After Hrs. (ft) (/6") (tsf) (%) HARD tan SANDY LOAM TILL MEDIUM brown SILTY CLAY 11 4.3 LOAM (continued) 0.5 17.0 16 69.70 STIFF gray SILTY CLAY LOAM VERY DENSE No Recovery 1.3 13.0 30 В 33 87.20 67.20 HARD gray SANDY LOAM TILL MEDIUM light brown SANDY LOAM 0.7 4.1 9.0 11.0 8 S 16 В 9 End of Boring SOFT tan SANDY LOAM 0.3 19.0 В 82.20 STIFF tan SANDY LOAM TILL 1.8 10.0 В 79.70 VERY STIFF tan SANDY LOAM 3.1 9.0 77.20 HARD tan SANDY LOAM TILL 12 5.0 8.0 13 В VERY STIFF tan SANDY LOAM 20 2.3 9.0 17 В 72.20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

Ground Surface Elev. 90.70 = 792.97

BBS, from 137 (Rev. 8-99)

The elevation datum was taken from the pavement crown at the center of the structure, which has been arbitrarily assigned an elevation of 100.00. This daum should be converted to USGS datum. Elevation 100.00 = 802.27.

Ground Surface Elev. 94.00 = 796.27

Illinois Department of Transportation

SOIL BORING LOG

Date 8/30/23

Page <u>1</u> of <u>1</u>

		IDOT										Date	8/3	0/23
	ROUTE	FAI 39 (I-39)	_ DES	SCRI	PTION	1	2-111-	06 - Various proposed s I-39 and Harrison Aver	ign trusses a nue	L	OGGI	ED BY	W. 0	Garza_
	SECTION _	(201-3)K		_ L	OCAT	ION _	Rockfo	ord, SE 1/4 35, SEC., TV	WP. 44N, RN	G. 2E				
	COUNTY _	Winnebago DF	RILLING	ME	THOD		Hol	low Stem Auger	HAMMER	TYPE	CN	ME-75	Autom	natic
	STRUCT. NO	D. <u>SBR</u> 2740+65						.39" 9.49"	Northing Easting	2,03	3,533 2,294	3.3551 4.9938		
	Station	2/40+65	_	DE	L	С	0	Surface Water Elev Stream Bed Elev		ft		L	0 0	M O
	BORING NO Station	. <u>B-2b</u> 2740+85		P T	w	s	S	Groundwater Elev.:	None	#	т	w	s	S
	Office	62.00ft Rt of SB C rface Elev. 94.00		H		Qu	T	First Encounter Upon Completion	Dry	ft		S	Qu "	T
		F brown SILTY CLAY		(π)	(/6")	(tst)	(%)	After Hrs VERY DENSE tan SAI		π	(π)	(/6") 24	(tsf)	(%)
	LOAM					3.0 P	17.0	TILL		73.00		32		
	OTIES S-LA	orown SILTY CLAY	92.00	_	3	·		Hard drilling (continued VERY DENSE tan SAI			_			
	LOAM	Drown SILTY CLAY		_	3		16.0		NDY LOAM		_	17 21		7.0
			90.50	_	5	В				70.50	_	32		
	MEDIUM tar	n SANDY LOAM TILL			3			VERY STIFF gray SAN	NDY LOAM		-25	11		
				_	3 5	0.7 B	13.0	TILL			_	16 19	3.5 S	7.0
			88.00		,			End of Boring		08.00	_	10	,	
	MEDIUM tar	SANDY LOAM TILL			2						_			
			85.50		4 6	1.0 S	11.0							
=														
systen	STIFF tan S.	ANDY LOAM TILL		-10	5 10	1.8	10.0				-30			
dinate			83.00	_	14		10.0				_			
- 0000				_							_			
HP-W	HARD tan S	ANDY LOAM TILL		_	20 24		7.0				_			
grne			80.50	_	32	S					_			
uisin p	VERY STIFE	F tan SANDY LOAM		.15	16						-35			
calculate	TILL		70.00	-13	26 34	3.7 S	7.0				-33			
were ca	Hard drilling		78.00			_					_			
		F tan SANDY LOAM			49						_			
nd Eas	TILL		75.50		65 36	2.8 S	7.0							
Northing and Easting											_			
LON				-20	23						-40	<u> </u>		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

QUIGG ENGINEERING INC

HARD tan SANDY LOAM TILL

 USER NAME
 =
 zdavidson
 DESIGNED
 ZLD
 REVISED

 D264R71-SHT-016-Span Boring
 CHECKED
 KWB
 REVISED

 PLOT SCALE
 =
 0.1667 '/ in.
 DRAWN
 ZLD
 REVISED

 PLOT DATE
 =
 10/13/2023
 CHECKED
 MDC
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 SOIL BORING LOGS
 F.A.I. RTE.
 SECTION
 COUNTY SHEET NO.
 SHEET NO.

 OVERHEAD SIGN STRUCTURES
 39 (201-3)K
 WINNEBAGO 1279 548

 SHEET 16 OF 22 SHEETS
 CONTRACT NO. 64R71

FILE NAME

Page <u>1</u> of <u>1</u>

P92-111-06 - Various proposed sign trusses at

DESCRIPTION LOGGED BY W. Garza ROUTE FAI 39 (I-39) I-39 and Harrison Avenue LOCATION Rockford, SE 1/4 35, SEC., TWP. 44N, RNG. 2E Winnebago DRILLING METHOD HAMMER TYPE CME-75 Automatic COUNTY Hollow Stem Auger 42° 14' 25.49" Northing <u>2,032,419.4110</u> Longitude -88° 57' 59.72" Easting 2,621,540.4562 STRUCT. NO. Ramp CR/CL Station Surface Water Elev. U Stream Bed Elev. S 0 0 S BORING NO. w 314+70 First Encounter Qu Qu S Offset 0.00ft CL Prop Upon Completion Dry ft Ground Surface Elev. 100.00 (/6") (tsf) (ft) (/6") (%) After (tsf) (%) LOOSE brown SILTY CLAY VERY STIFF tan SANDY LOAM 2.2 TILL with FINE SAND LENS LOAM 16 S 6.0 79.00 (continued) 98.00 VERY STIFF tan SANDY LOAM VERY STIFF tan SANDY LOAM TILL TILL 25 2.1 7.0 16 3.9 8.0 29 Р 17 S 96.50 76.50 HARD tan SANDY LOAM TILL VERY STIFF tan SANDY LOAM 24 10 -25 50 4.2 7.0 TILL 15 3.3 38 18 S 94.00 End of Boring STIFF tan SANDY LOAM TILL 27 29 1.8 8.0 30 Р 91.50 MEDIUM tan SANDY LOAM TILL 19 0.9 8.0 24 89.00 VERY STIFF tan SANDY LOAM 32 3.5 7.0 29 86.50 STIFF tan SANDY LOAM TILL 26 1.8 8.0 21 S 84.00 VERY DENSE No Recovery 12 26 81.50

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

FAI 39 (I-39)

ROUTE

DESCRIPTION

SOIL BORING LOG

Date 8/31/23

Page <u>1</u> of <u>1</u>

P92-111-06 - Various proposed sign trusses at I-39 and Harrison Avenue LOGGED BY W. Garza

LOCATION Cherry Valley, NE 1/4 2, SEC., TWP. 44N, RNG. 2E HAMMER TYPE CME-75 Automatic Winnebago DRILLING METHOD COUNTY Hollow Stem Auger 42° 14' 17.85" Northing 2,031,652.6282 -88° 57' 52.90" Easting 2,622,064.7798 Longitude STRUCT. NO. Ramp BC/BR Station Surface Water Elev. В М Stream Bed Elev. Ε 0 О О S - 1 BORING NO. S B-1e w w Station 224+60 First Encounter Qu Qu S Offset 0.00ft CL Prop 84.5 ft ∑ Upon Completion Ground Surface Elev. 100.00 (ft) (/6") (ft) (/6") (%) (tsf) Hrs. (tsf) VERY DENSE tan SANDY LOOSE tan SANDY LOAM GRAVEL with SANDY LOAM TILL 8.0 92 LENS (continued) End of Boring VERY DENSE tan SANDY LOAM 6.0 100 96.50 for 5" VERY DENSE tan SANDY LOAM 100 TILL for 6.0 10" VERY DENSE tan FINE SAND 20 27 15.0 37 91.50 VERY DENSE tan VERY FINE -30 SILTY SAND 26 0.5 18.0 34 S ▼ VERY DENSE tan SANDY LOAM 100 TILL for 8.0 5" 86.50 VERY DENSE tan SANDY LOAM TILL with FINE SAND LENS 14.0 100 ∇ for Hard drilling 5" VERY DENSE tan MOIST SANDY MEDIUM GRAVEL 42 48 81.50

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Ground Surface Elev. 100.00 = 775.86

The elevation datum was taken from the proposed centerline at the center of the structure, which has been arbitrarily assigned an elevation of 100.00. This daum should be converted to USGS datum.

Ground Surface Elev. 100.00 = 779.99



USER NAME = zdavidson	DESIGNED -	ZLD	REVISED -
D264R71-SHT-017-Span Boring	CHECKED -	KWB	REVISED -
PLOT SCALE = 0.1667'/in.	DRAWN -	ZLD	REVISED -
PLOT DATE = 10/13/2023	CHECKED -	MDC	REVISED -

MODEL: Default

Page <u>1</u> of <u>1</u>

Date 8/31/23

P92-111-06 - Various proposed sign trusses at LOGGED BY W. Garza DESCRIPTION FAI 39 (I-39) I-39 and Harrison Avenue LOCATION Rockford, SE 1/4 35, SEC., TWP. 44N, RNG. 2E HAMMER TYPE CME-75 Automatic COUNTY Winnebago DRILLING METHOD Hollow Stem Auger 42° 14' 23.32" Northing 2,032,188.2407 Longitude -88° 58' 09.84" Easting 2,620,782.9219 Station Surface Water Elev. U Stream Bed Elev. С S 0 S BORING NO. Groundwater Elev.: w 143+50 First Encounter Qu Qu 33.00ft Rt of EB CL Offset **Upon Completion** Ground Surface Elev. 98.20 (ft) (/6") (tsf) (%) (ft) (/6") (tsf) (%) After VERY STIFF tan SANDY LOAM MEDIUM brown SILTY CLAY 3.3 12.0 LOAM 0.8 16.0 TILL (continued) 11 77.20 STIFF dark gray SILTY LOAM VERY STIFF tan SANDY LOAM TILL 1.5 26.0 10 3.1 9.0 В 6 В 13 94.70 74.70 STIFF dark gray SILTY CLAY VERY STIFF tan SANDY LOAM 6 LOAM 1.7 26.0 TILL 10 2.5 9.0 В В 12 92.20 End of Boring MEDIUM gray SILTY CLAY 5 0.6 26.0 В 88.70 MEDIUM tan FINE SAND 87.20 MEDIUM tan MEDIUM SAND 12 10 7.0 12 MEDIUM tan SANDY LOAM TILL with FINE SAND LENS 0.5 9.0 S 82.20 STIFF tan SANDY LOAM TILL 1.2 11.0 13 В 79.70

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

Ground Surface Elev. 98.20 = 773.16

BBS, from 137 (Rev. 8-99)

The elevation datum was taken from the pavement crown at the center of the structure, which has been arbitrarily assigned an elevation of 100.00.

Ground Surface Elev. 100.00 = 774.96

Illinois Department of Transportation

SOIL BORING LOG

P02 111 08 Various proposed sign trusses at

Date 9/5/23

Page <u>1</u> of <u>1</u>

	ROUTE _	FAI 39 (I-39)	DES	SCRI	PTION	P9	2-111-	06 - Various proposed s I-39 and Harrison Aven	ign trusses a nue	it L0	OGGI	ED BY	W. 0	3arza_
	SECTION	(201-3)K		_ ı	OCAT	ION	Rockfo	ord, SE 1/4 35, SEC., TV	WP. 44N, RN	G. 2E				
	COUNTY _	Winnebago E	RILLING	ME	THOD		Hol	low Stem Auger	HAMMER	TYPE	CN	/IE-75	Autom	atic
	STRUCT. N	O. <u>US 20 L</u> 143+50						.97" 9.51"	Northing Easting	2,032	2,255 0,806	3.6264		
				D E P	B L O	U C S	м О І	Surface Water Elev Stream Bed Elev			D E P	L	U C S	M 0 -
	Station _	D. B-2d 143+50 29.50ft Lt of CL E		Т Н	w		s	Groundwater Elev.: First Encounter	None	ft	т	-	Qu	s T
	Ground St	urface Elev. 100.0		(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs		ft	(ft)	(/6")	(tsf)	(%)
	8" Asphalt MEDIUM gr LOAM	ray SILTY CLAY	99.50	_		n s	10.0	STIFF tan SANDY LOA with SAND LENS (con	AM TILL tinued)	79.00	_	25 31	1.8 P	8.0
	VERY STIF	F gray CLAY LOAM	98.00	_	10	P	10.0	MEDIUM tan SANDY L	OAM TILL		_	16		
			96.50		5 7	3.7 B	23.0			76.50	_	19 22	0.6 S	8.0
	STIFF gray	LOAM with SAND		-5	3			STIFF tan SANDY LOA	AM TILL		-25	11		
	LENS		94.00		5 5	1.2 B	21.0			74.00		16 16	1.3 S	9.0
	VEDV STIE	F tan SANDY LOAM		_	7			End of Boring			_			
	TILL	T all Ovido I Covid	91.50	_	9 14	2.1 P	7.0				_			
Ea	DENOT.			_	10						_			
are syst	DENSE tan	SANDY LOAM TILL	89.00		16 18 18						-30			
- coordii				_							_			
ure ILRP-4VI	MEDIUM ta	IN SANDY LOAM TILL		_	11 11 12	0.9 S	8.0				_			
ang me			86.50	_							_			
n pared n	STIFF tan S	SANDY LOAM TILL		-15	17	1.1	7.0				-35			
were carcu			84.00		24	S								
	STIFF tan S	SANDY LOAM TILL	,	_	23 36	1.4	7.0							
Northing and Easting			81.50	_	40	Р					_			
100				-20	17						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

QUIGG ENGINEERING INC

This daum should be converted to USGS datum. Elevation 100.00 = 774.96 DESIGNED - ZLD REVISED -SER NAME = zdavidson D264R71-SHT-018-Span Boring CHECKED - KWB REVISED -LOT SCALE = 0.1667 ' / in. DRAWN - ZLD REVISED PLOT DATE = 10/13/2023 CHECKED - MDC REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION COUNTY SOIL BORING LOGS (201-3)K WINNEBAGO 1279 550 **OVERHEAD SIGN STRUCTURES** CONTRACT NO. 64R71 SHEET 18 OF 22 SHEETS

Page <u>1</u> of <u>1</u>

Date 8/31/23

	1201				PS	92-111-	06 - Various proposed sign trusses	at				
ROUTE	FAI 39 (I-39)	_ DE	SCR	IPTION			I-39 and Harrison Avenue		OGG	ED BY	W. 0	Sarza
SECTION _	(201-3)K		_ '	LOCAT	ION .	Rockfo	ord, SE 1/4 35, SEC., TWP. 44N, RM	IG. 2E				
COUNTY _	Winnebago DR	RILLING	э ме	THOD		Hol	low Stem Auger HAMMER	TYPE	CI	ME-75	Autom	atic
STRUCT. NO). <u>US 20 R</u> 1322+00					° 14' 21 3° 57' 4	3.11" Easting	2,62				
Station	1022 - 50		D E	B L	U C	M	Surface Water Elev Stream Bed Elev.		D	B L	U C	M O
BORING NO.	B-1f	_	P	_	S	I	Groundwater Elev.:	_	P	О	š	i s
Offset	1322+00 61.00ft Rt of WB C	L		s		T	First Encounter Upon Completion	_ ft ft	Ĥ		Qu	T
Ground Sur	face Elev. 94.40	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.		(ft)	(/6")	(tsf)	(%)
LOOSE brow LOAM	n SILTY CLAY		_			6.0	VERY DENSE tan SANDY LOAM TILL with SAND LENS (continued)	73.40	_	32 32		
			_					75.40	_			
MEDIUM tan	SANDY LOAM TILL	92.40		8		1	VERY STIFF tan SANDY LOAM			14		
with SAND L	ENS		_	8	0.6 P	9.0	TILL			14 14	2.1 S	9.0
		90.90	_	<u> </u>		<u> </u>		70.90	_			
DENSE tan S	SANDY LOAM TILL		-5	9		+	STIFF tan SILTY CLAY TILL		-25	5		
				22	4.5 P	7.0				10	1.2	13.0
		88.40	_	25	Р	+	End of Boring	68.40		11	В	
VERY STIFF	tan SANDY LOAM		_	37		\vdash						
TILL			_	40	3.0	7.0						
		85.90	_	47	Р	+			_			
VERY STIFE	tan SANDY LOAM			20		-			=			
TILL	IAN SAND I EGAN		-10	25	2.4	7.0			-30			
		83.40		30	S	\vdash						
VEDV STIFE	tan SANDY LOAM		_	13					_			
TILL	tan SANDY LOAM		_	19	2.3	8.0			_			
		80.90	_	20	S	-			_			
			_						_			
HARD tan SA	ANDY LOAM TILL		-15	9 16	4.8	8.0			-35			
		78.40	_	19	s				_			
			_						_			
VERY DENS TILL	E tan SANDY LOAM		_	14 100					_			
Hard drilling		75.90		for					_			
			_	2.5"								
			-20	21					-40	1		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Page <u>1</u> of <u>1</u>

SOIL BORING LOG

Illinois Department of Transportation

Date 9/5/23

	IDOT									Date	9/5	5/23
ROUTE	FAI 39 (I-39)	_ DES	SCRI	PTION	P9 I	2-111-	06 - Various proposed sign trusses I-39 and Harrison Avenue	at LO	OGGE	ED BY	W. 0	arza_
SECTION _	(201-3)K		_ L	OCAT	ION _	Rockfo	ord, SE 1/4 35, SEC., TWP. 44N, RI	IG. 2E				
COUNTY	Winnebago DR	ILLING	ME	THOD		Hol	low Stem Auger HAMMER	TYPE	CN	1E-75	Autom	atic
STRUCT. NO.	US 20 L 1322+00		Latit Long	ude gitude	42° -88	14' 20 ° 57' 4:	.56" Northing 2.95" Easting					-
Station	1322700		D E	L	U C	О	Surface Water Elev Stream Bed Elev		Е	B L	U C	м О
Offset	B-2f 1322+00 14.00ft Lt of WB CI face Elev. 99.90		T H	w s	Qu	S T	First Encounter None Upon Completion Dry After Hrs.	_ ft	T H	- 1	-,	I S T (%)
8" Asphalt		99.40					STIFF tan SANDY LOAM TILL			19	1.7	9.0
MEDIUM brow LOAM	wn SILTY CLAY				0.8	13.0	with SAND LENS (continued)	78.90		18	S	
VERY STIFF	brown SANDY	97.90		6	P	10.0	STIFF tan SANDY LOAM TILL		_	8 10	1.8	10.0
		96.40	_	9	2.3 B	16.0		76.40		15	S	10.0
		•										
STIFF tan SA	NDY LOAM TILL	02.00	-5	7 8 11	1.5 S	9.0	VERY STIFF tan SANDY LOAM TILL	70.00	_	16 19 21	3.1 P	8.0
		93.90			3		End of Boring	73.90		21		
STIFF tan SA	NDY LOAM TILL			11 13 15	1.8 P	6.0						
DENSE tan D MEDIUM GRA	IRTY SAND with	90.40	-10	13 18					-30			
				23					_			
VERY DENSE	E No Recovery	87.90	_	100 for 4"								
		85.40							_			
TILL	Etan SANDY LOAM	83.90	-15	33 100 for		6.0			-35			
			_	9"_/								
STIFF tan SA	NDY LOAM TILL	81.40		13 16 32	1.7 S	8.0			_			
									_			1

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Ground Surface Elev. 94.40 = 776.13

The elevation datum was taken from the pavement crown at the center of the structure, which has been arbitrarily assigned an elevation of 100.00. This daum should be converted to USGS datum. Elevation 100.00 = 781.73. Ground Surface Elev. 99.90 = 781.72



USER NAME = zdavidson	DESIGNED - ZLD	REVISED -
D264R71-SHT-019-Span Boring	CHECKED - KWB	REVISED -
PLOT SCALE = 0.1667'/in.	DRAWN - ZLD	REVISED -
PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -

QUIGG ENGINEERING INC

 USER NAME
 =
 zdavidson
 DESIGNED
 ZLD
 REVISED

 D264R71-SHT-020-Span Blank
 CHECKED
 KWB
 REVISED

 PLOT SCALE
 =
 0.1667 '/ in.
 DRAWN
 ZLD
 REVISED

 PLOT DATE
 =
 10/13/2023
 CHECKED
 MDC
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
OVERHEAD SIGN STRUCTURES

SHEET 20 OF 22 SHEETS

0/11/2023 8:52:47 AM

QUIGG ENGINEERING INC

 USER NAME
 =
 zdavidson
 DESIGNED
 ZLD
 REVISED

 D264R71-SHT-021-Span Blank
 CHECKED
 KWB
 REVISED

 PLOT SCALE
 =
 0.1667 '/ in.
 DRAWN
 ZLD
 REVISED

 PLOT DATE
 =
 10/13/2023
 CHECKED
 MDC
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
OVERHEAD SIGN STRUCTURES

SHEET 21 OF 22 SHEETS

| SECTION | COUNTY | TOTAL | SHEETS | NO. |
| 39 | (201-3)K | WINNEBAGO | 1279 | 553 |
| CONTRACT NO. 64R71

0/11/2023 8:52:50 AM

QUIGG ENGINEERING INC

 USER NAME
 =
 zdavidson
 DESIGNED
 ZLD
 REVISED

 D264R71-SHT-022-Span Blank
 CHECKED
 KWB
 REVISED

 PLOT SCALE
 =
 0.1667 ' / in.
 DRAWN
 ZLD
 REVISED

 PLOT DATE
 =
 10/13/2023
 CHECKED
 MDC
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
OVERHEAD SIGN STRUCTURES

SHEET 22 OF 22 SHEETS

0/11/2023 8:52:53 AM

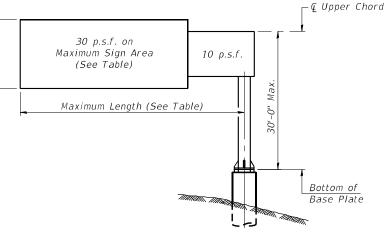
Alternate Direction of Horizontal

Diagonal Bracing for Each Bay in

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
2C101U020R024.8	1312+25	III-C-A	40'-0"	780.11	10'-0"	9'-0"	207 SF

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.
- * If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES: Unit*s* ۽ Field f' = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	-
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	-
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	40
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	30
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	12.7

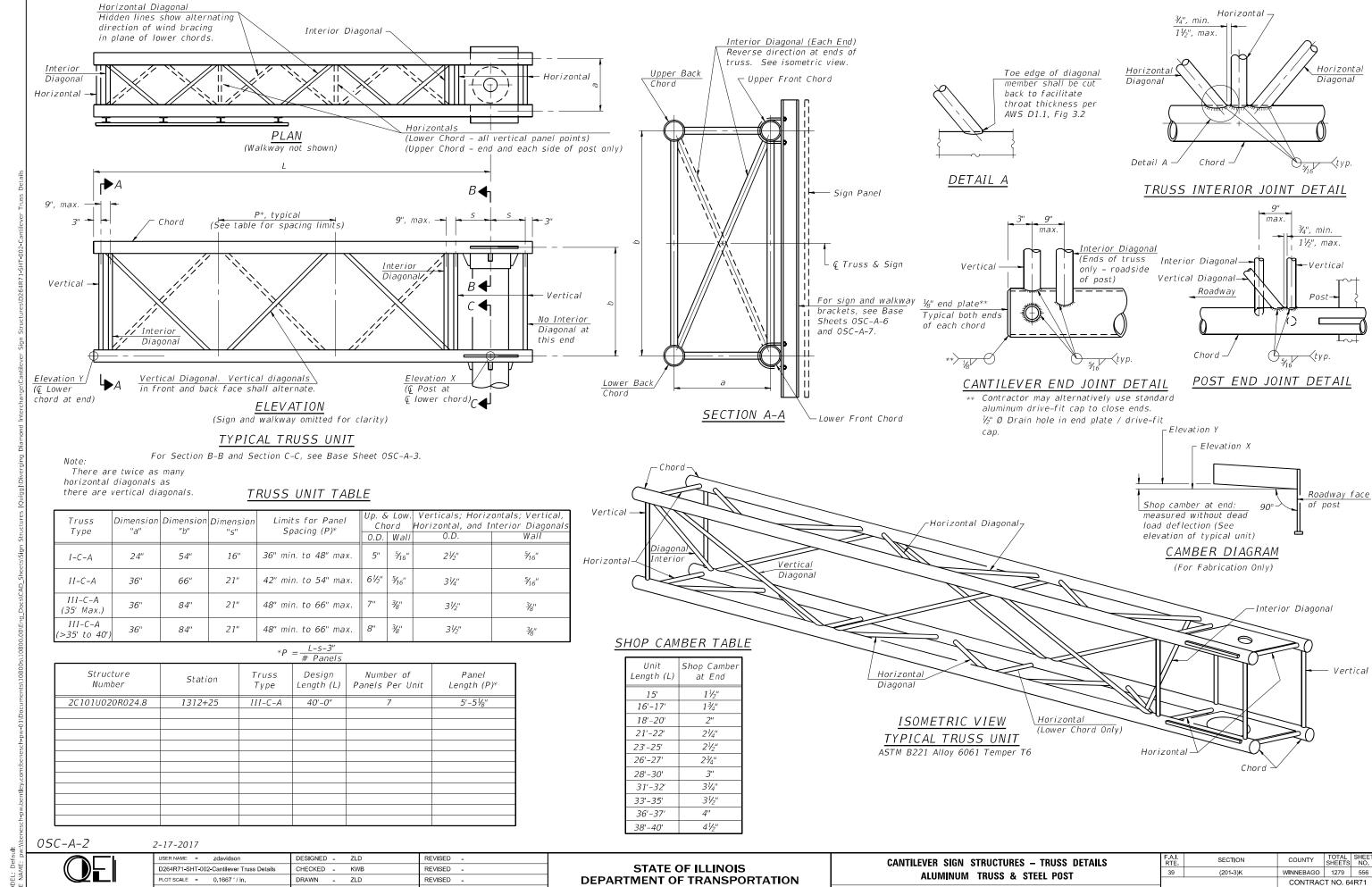
05C-A-1

2-17-2017

DESIGNED - ZLD REVISED D264R71-SHT-001-Cantilever GPE CHECKED - KWB REVISED LOT SCALE = 0.1667 ' / in. RAWN ZLD REVISED PLOT DATE = 10/13/2023 CHECKED - MDC REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION **ALUMINUM TRUSS & STEEL POST** SHEET 1 OF 10 SHEETS

SECTION COUNTY (201-3)K WINNEBAGO 1279 555 CONTRACT NO. 64R71 ILLINOIS FED. AID PROJECT



SHEET 2 OF 10 SHEETS

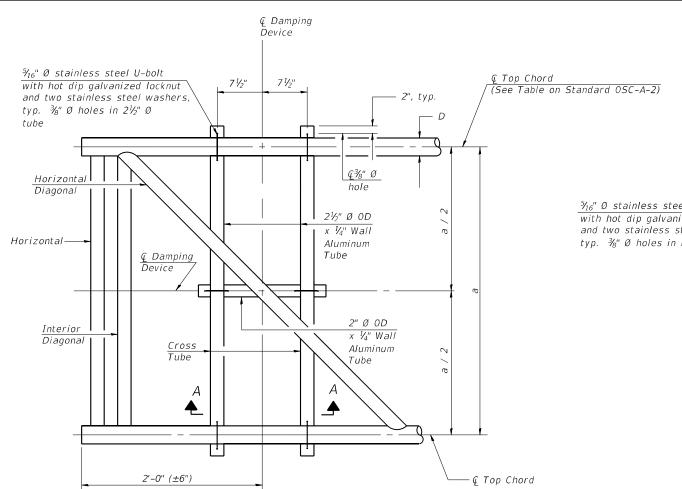
QUIGG ENGINEERING INC

PLOT DATE = 10/13/2023

CHECKED -

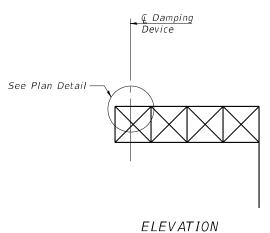
MDC

REVISED



_@ Cross Tubes 71/2" 71/2" ∜₁₆" Ø stainless steel U-bolt $+\frac{2''}{typ.}$ with hot dip galvanized locknut and two stainless steel washers, typ. ¾" Ø holes in mounting tube -Mounting Tube -Damping Device

> TRUSS DAMPING DEVICE CONNECTION DETAIL



Aluminum Cantilever

Sign Structure

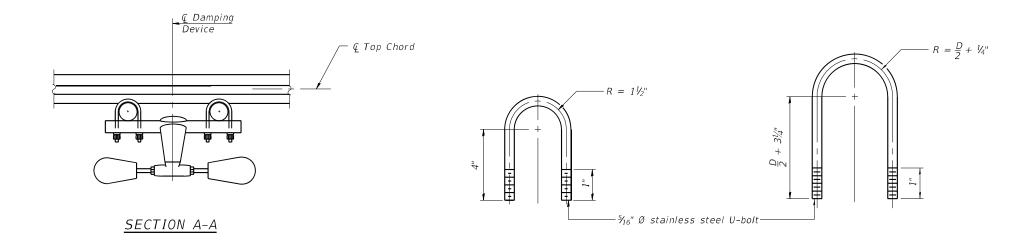
GENERAL NOTES

One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights) Damper:

Aluminum tubes shall be ASTM B221 alloy 6061 Materials:

temper T6

PLAN DETAIL



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL (Typical)

TOP CHORD TO CROSS TUBE U-BOLT DETAIL (Typical)

0*SC-A-D*

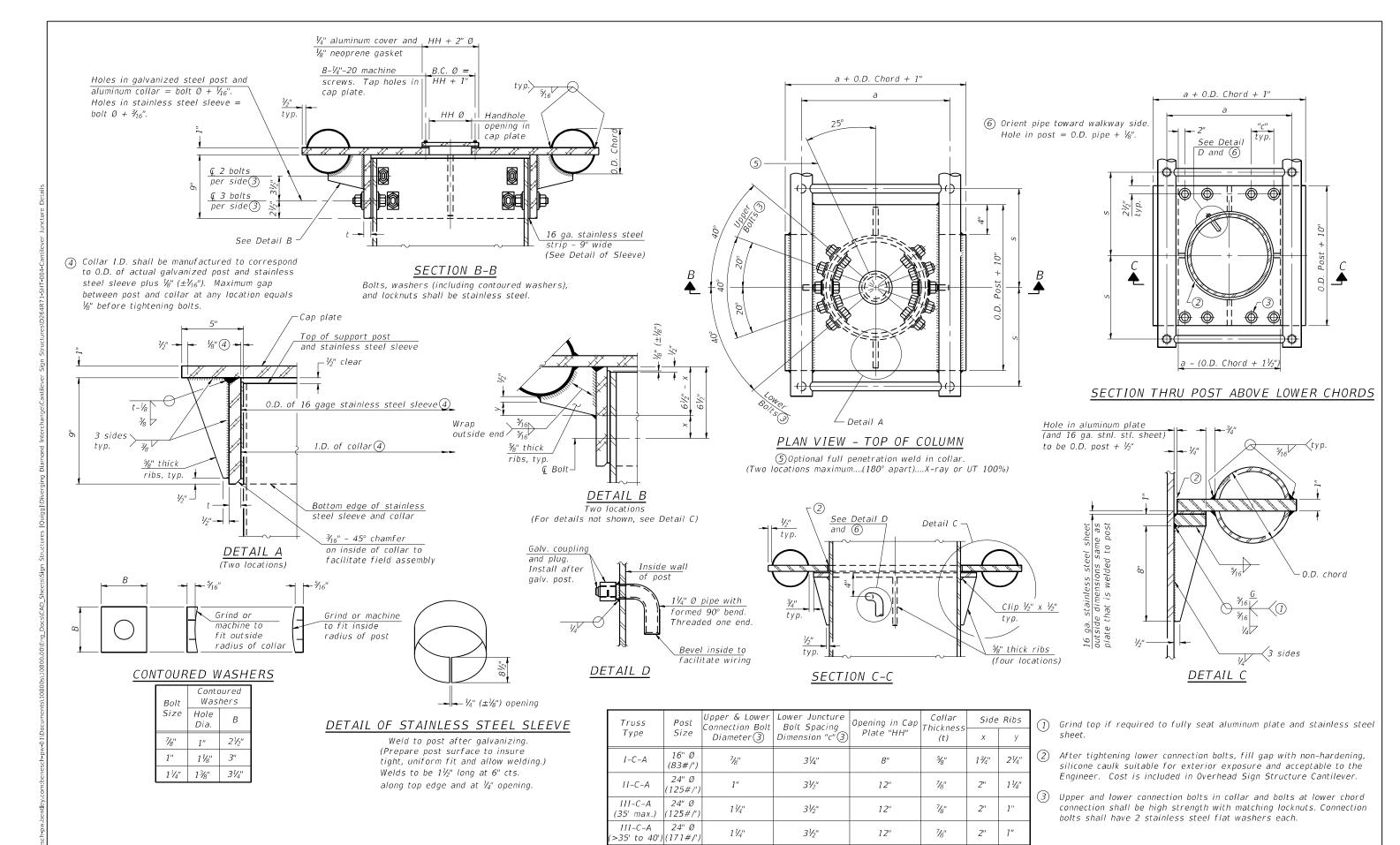
2-17-2017



USER NAME = zdavidson	DESIGNE	D -	ZLD	REVISED	-
D264R71-SHT-003-Cantilever	Damping Device CHECKE) -	KWB	REVISED	-
PLOT SCALE = 0.1667 ' / i	n. DRAWN	-	ZLD	REVISED	-
PLOT DATE = 10/13/2023	CHECKEI) -	MDC	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **CANTILEVER SIGN STRUCTURE** (201-3)K WINNEBAGO 1279 557 DAMPING DEVICE CONTRACT NO. 64R71 SHEET 3 OF 10 SHEETS



MODEL: Defau**l**t FILE NAME: pw:\\bene

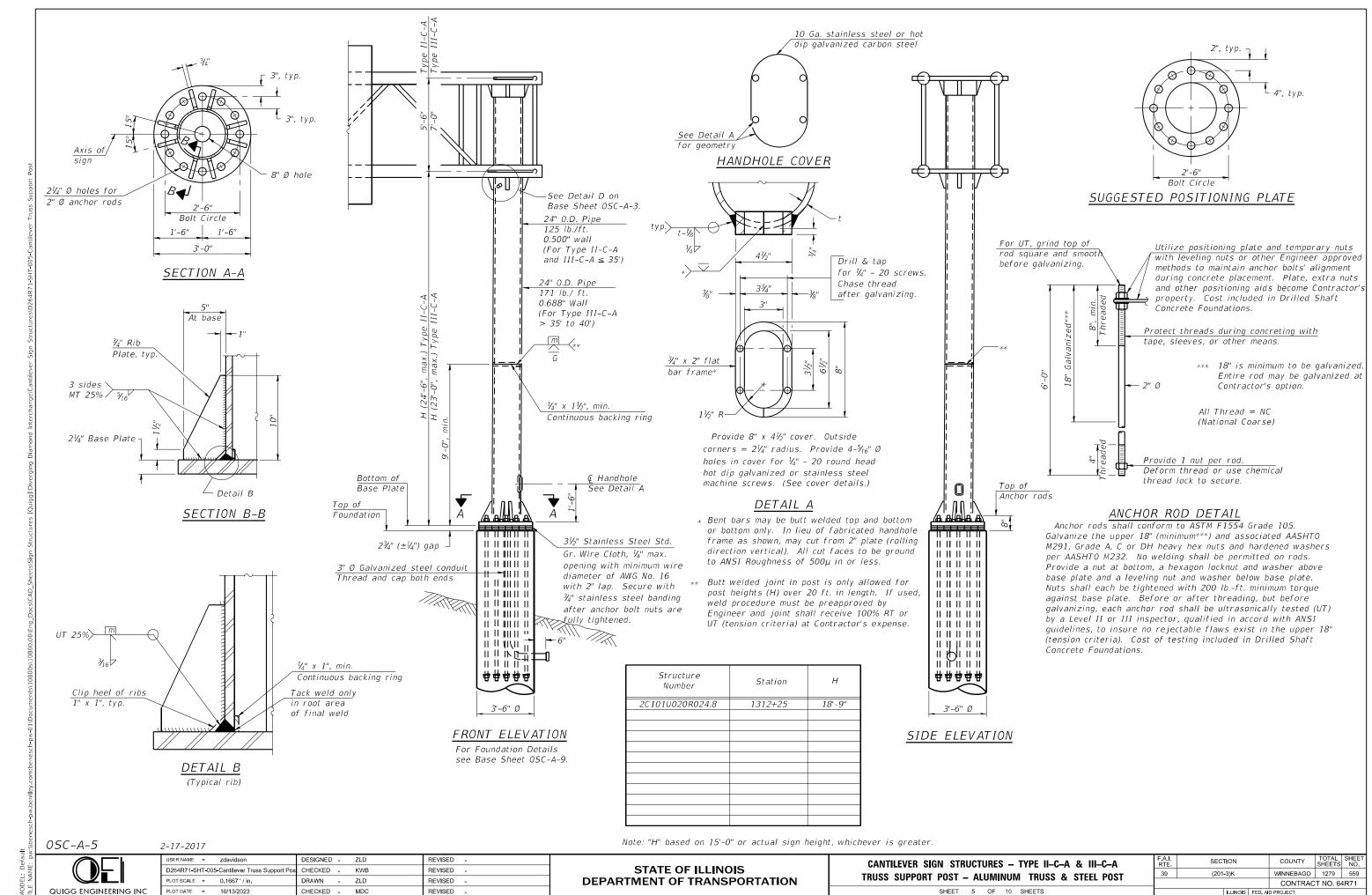
2-17-2017

	USER NAME = zdavidson	DESIGNED - ZLD	REVISED -
((▶) 🖵	D264R71-SHT-004-Cantilever Juncture Details	CHECKED - KWB	REVISED -
	PLOT SCALE = 0.1667'/in.	DRAWN - ZLD	REVISED -
QUIGG ENGINEERING INC	PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -

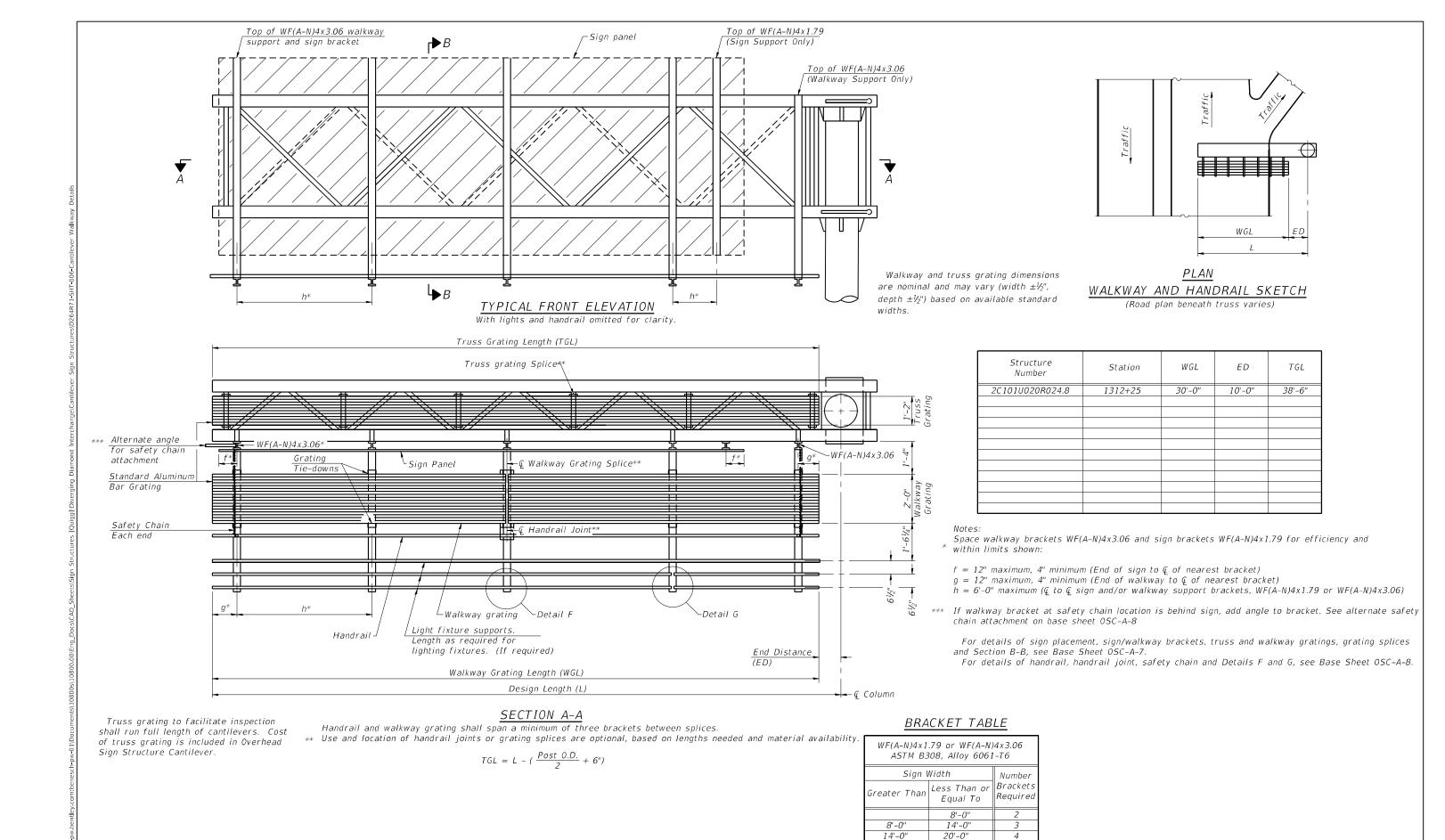
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – JUNCTURE DETAILS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ALUMINUM TRUSS & STEEL POST		(201-3)K	WINNEBAGO	1279	558
ALDININON THOSE & STEEL 1001			CONTRAC	T NO. 64	4R71
SHEET 4 OF 10 SHEETS		ILLINOIS FED A	ID PROJECT		-

05C-A-3



10/11/2023 8:53:36 AM



2-17-2017

QUIGG ENGINEERING INC

	Zadvidoon	DEGIGNED - LED	TEVIOLD -
	D264R71-SHT-006-Cantilever Walkway Details	CHECKED - KWB	REVISED -
	PLOT SCALE = 0.1667 ' / in.	DRAWN - ZLD	REVISED -
:	PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

20'-0"

26'-0"

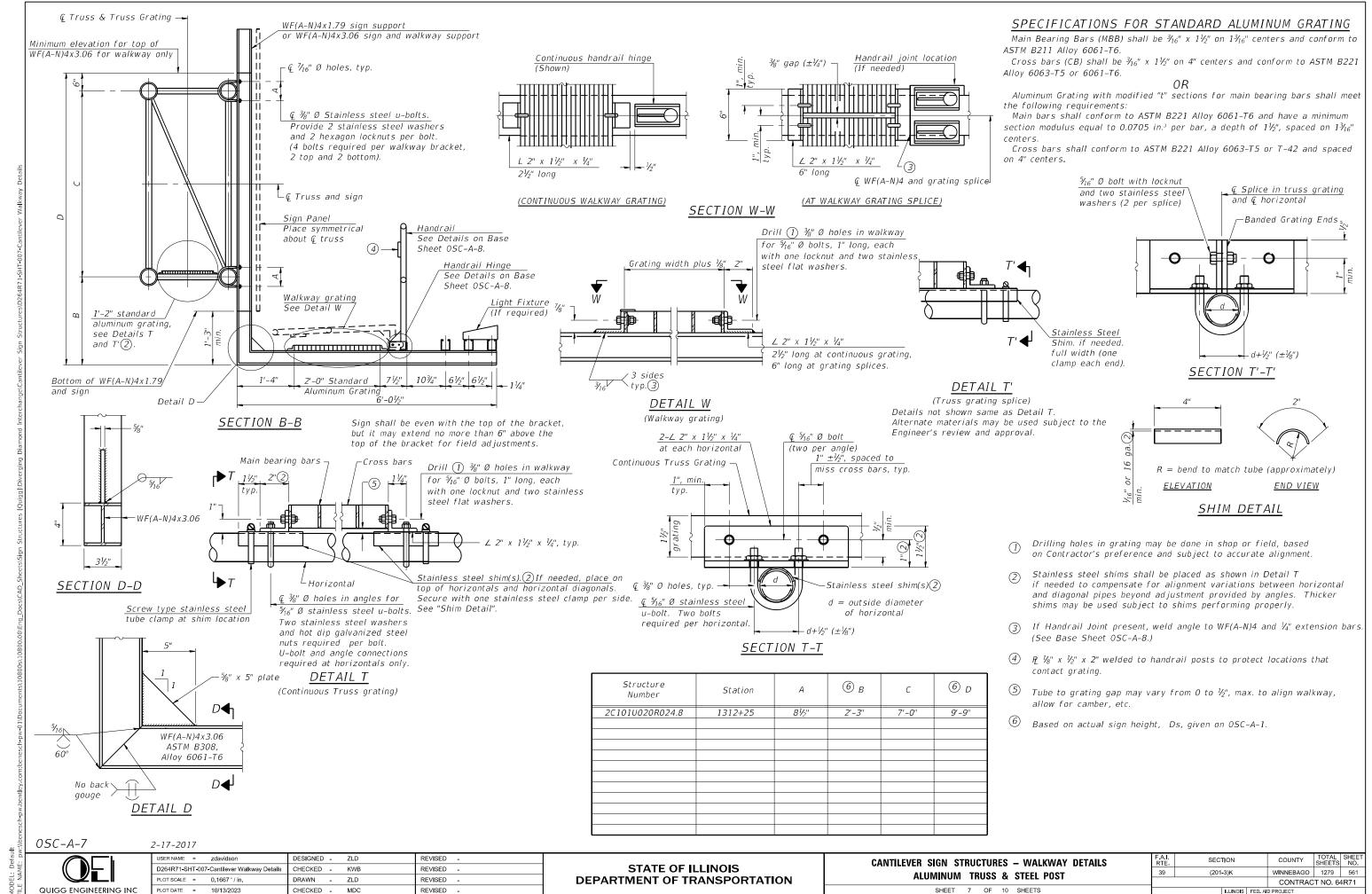
26'-0

32'-0'

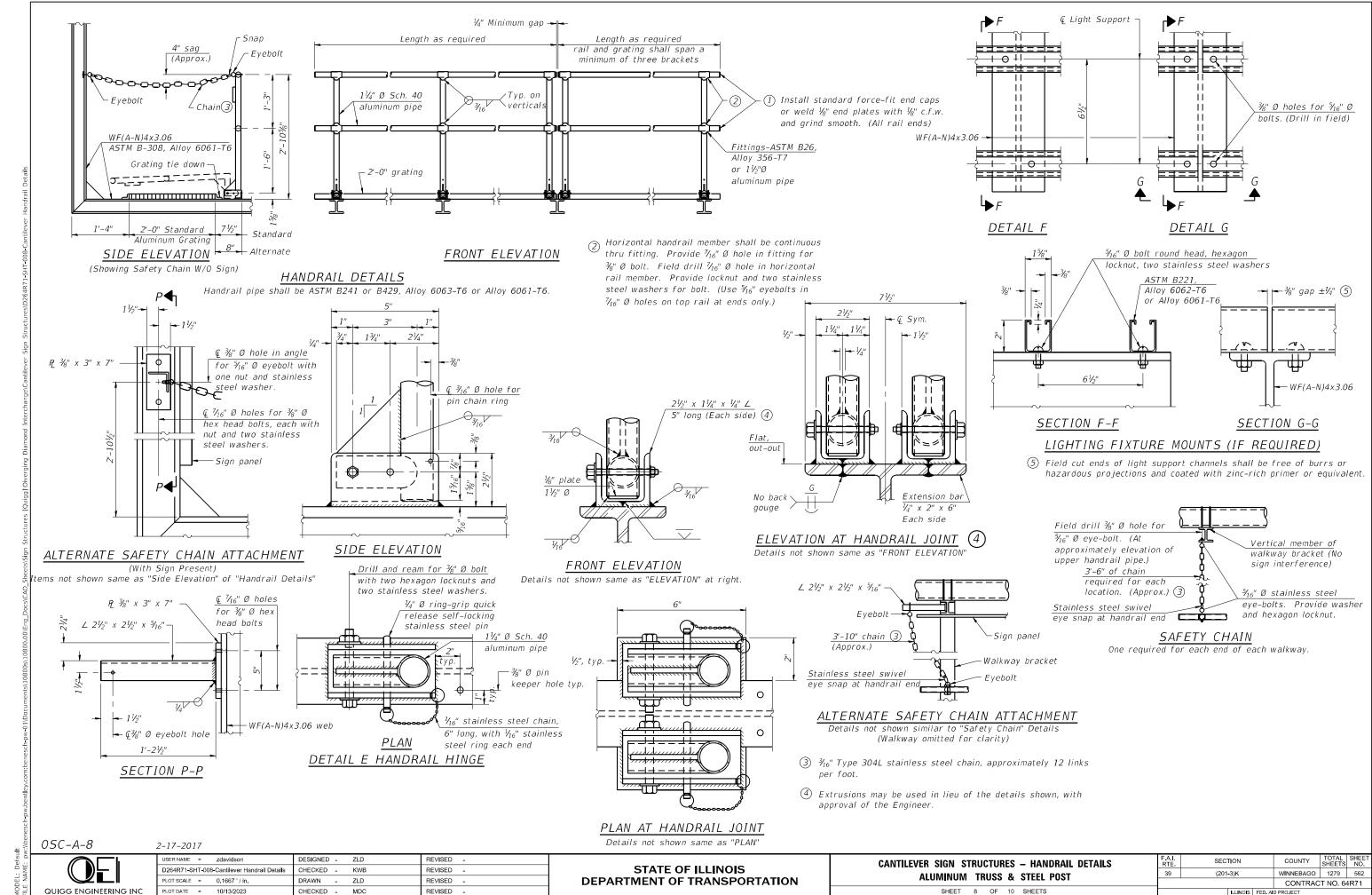
CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY

DETAILS - ALUMINUM TRUSS & STEEL POST

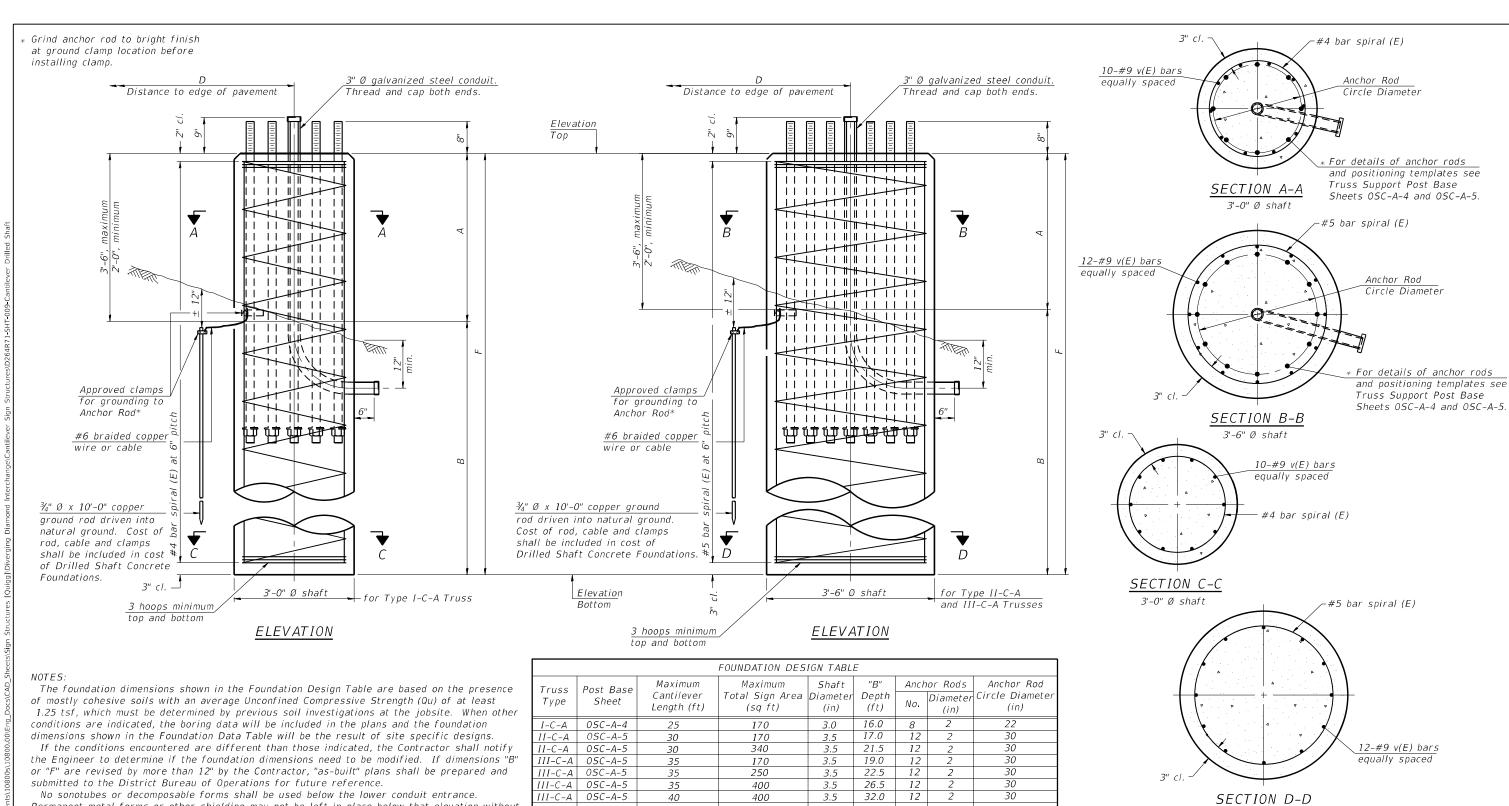
SHEET 6 OF 10 SHEETS



10/11/2023 8:53:44 AM



10/11/2023 8:53:48 Al



Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

2-17-2017

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DESIGN TABLE										
Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)		or Rods Diameter (in)	Anchor Rod Circle Diameter (in)		
I-C-A	05C-A-4	25	170	3.0	16.0	8	2	22		
II-C-A	0SC-A-5	30	170	3.5	17.0	12	2	30		
II-C-A	0SC-A-5	30	340	3.5	21.5	12	2	30		
III-C-A	0SC-A-5	35	170	3.5	19.0	12	2	30		
III-C-A	0SC-A-5	35	250	3.5	22.5	12	2	30		
III-C-A	0SC-A-5	35	400	3.5	26.5	12	2	30		
III-C-A	0SC-A-5	40	400	3.5	32.0	12	2	30		
I						1				

FOUNDATION DATA TABLE										
Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	А	В	F	Class DS Concrete Cubic Yards
2C101U020R024.8	1312+25	III-C-A	3'-6"	783.67	748.17	1.34	3'-6"	32'-0"	35'-6"	12.7

05C-A-9

QUIGG ENGINEERING INC

	USER NAME = zdavidson	DESIGNED - ZLD	REVISED -
	D264R71-SHT-009-Cantilever Drilled Shaft	CHECKED - KWB	REVISED -
	PLOT SCALE = 0.1667'/in.	DRAWN - ZLD	REVISED -
2	PLOT DATE = 10/13/2023	CHECKED - MDC	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT	F.A.I. RTE			COUNTY	TOTAL SHEETS	SHEET NO.
ALUMINUM TRUSS & STEEL POST	39	39 (201-3)K WINNE			1279	563
ALOMINOW THOSE & STEEL 1031				CONTRAC	T NO. 64	4R71
SHEET 9 OF 10 SHEETS		ILLINOIS	FED. AI	D PROJECT		

3'-6" Ø shaft



munus capariment of trains	Antegenous D.	*								Acres 14 April 2	100,100
ROUTE FAP 301	DE	SCR	PTION	101	-0071	0072 I-39 Bridge over Harrison Ro _6 miles west of Mill Road	ad, LO	oggi	ED BY	_W. 0	Garza
SECTION (201-3) K (4-1, 5) K	_	OCAT	LION _	Rockfo	ord Twp 35SE, SEC. , TWP. 44N, I	RNG. 21	Ξ			
COUNTY Winnebago D	RILLING	ME	THOD		Hol	low Stem Auger HAMMER	TYPE	B-53	Diedri	ch Aut	omatic
STRUCT. NO. 101-0071/0072 Station		D E P	B L O	U C S	M 0 -	Surface Water Elev. Stream Bed Elev.	_ ft _ ft	D E P	B L O	U C S	M 0
BORING NO. B-3		Н	s	Qu	S T	Groundwater Elev.: First Encounter 757.5 Upon Completion 734.0	_ft.▼ ft.∇	Ħ	s	Qu	S T
Ground Surface Elev. 775.00	ft	(ft)	(/6")	(tsf)	(%)	After Hrs	_ ft	(ft)	(/6")	(tsf)	(%)
MEDIUM brown SILTY CLAY LOAM		_		0.6	35.0	VERY DENSE tan SANDY LOAM TILL with GRAVEL		\perp	33 32		8.0
				P	30.0	Hard Drilling	753.50		39		0.0
MEDIUM light brown SILTY CLAY	772.50	_									
LOAM			3	0.7	27.0	DENSE gray SANDY LOAM TILL			17 19		8.0
			5	В	21.0		751.00		17		0.0
	770.50	-5						-25			
MEDIUM tan dirty SAND with medium GRAVEL		_	6			VERY STIFF gray SANDY LOAM		-20	14		
medium GRAVEL			7 10		14.0	TILL		\Box	16	3.8 P	8.0
	768.00	-	10				748.50	-	17	P	
	700,00							\dashv			
SOFT tan SANDY LOAM TILL			4		10.0	VERY STIFF gray SANDY LOAM	,	\Box	11		
	766.00	_	5	0.4 B	10.0	TILL	710.00	\dashv	12 19	3.4 P	7.0
	700,00						746.00	\dashv	10		
CTIFF I CAMPAGE CAMPAGE		-10						-30			
STIFF tan SANDY LOAM TILL		-	5 8	1.4	10.0	HARD gray SANDY LOAM TILL		4	5 10	4.5	8.0
	763.50		8	P P	10.0		743.50		15	4.5 B	0.0
							170.50				
MEDIUM tan SANDY LOAM TILL		_	3			HARD gray SANDY LOAM TILL		_	6		
MEDIOW (all GAND) ECAM FIEL			5	0.6	10.0	HARD GIBY SAINDY LOAM TILL			12	4.5	8.0
	761.00	_	8	В			741.00		13	Р	
		_									
SOFT tan SANDY LOAM TILL		-15	3			DENSE gray SANDY LOAM TILL		-35	13		
			7	0.4	10.0				18		
	758.50		11	s			738.50		22		
	:	_									
VERY DENSE tan SANDY LOAM		<u> </u>	38			VERY STIFF gray SANDY LOAM		-	2		
TILL with GRAVEL			40	4.5	8.0	TILL			7	3.5	9.0
	756.00		35	Р	$\vdash\vdash$		736.00		14	В	
			1		ı I				1	1 1	I

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page <u>2</u> of <u>2</u>

Date ____1/27/12

ROUTEFAP 301	_ DES	SCRII	PTION	101	-0071	0072 I-39 Bridge over .6 miles west of Mill R	Harrison Road, Road	LOGGED BY V	/. Garza
SECTION (201-3) K (4-1, 5)	K	_ L	OCAT	ION _	Rockf	ord Twp 35SE, SEC.	TWP. 44N, RNG). 2E	
COUNTY Winnebago DR	ILLING	MET	HOD		Ho	low Stem Auger	_ HAMMER TYP	E B-53 Diedrich /	\utomati
STRUCT. NO. 101-0071/0072 Station BORING NO. B-3		T	o W	u c s	M O - S	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:			
Station		H (ft)	S (/6")	Qu (tsf)	T (%)	First Encounter Upon Completion After Hrs.	757.5 ft 734.0 ft	₹	
VERY STIFF gray SANDY LOAM TILL	Z Z	_	6 10 16	3.3 B	8.0				
VERY DENSE tan SANDY GRAVEL	731.00		38 31 60						
VERY DENSE tan/gray SANDY GRAVEL		-45	19						
End of Boring	-	-60							
	-								

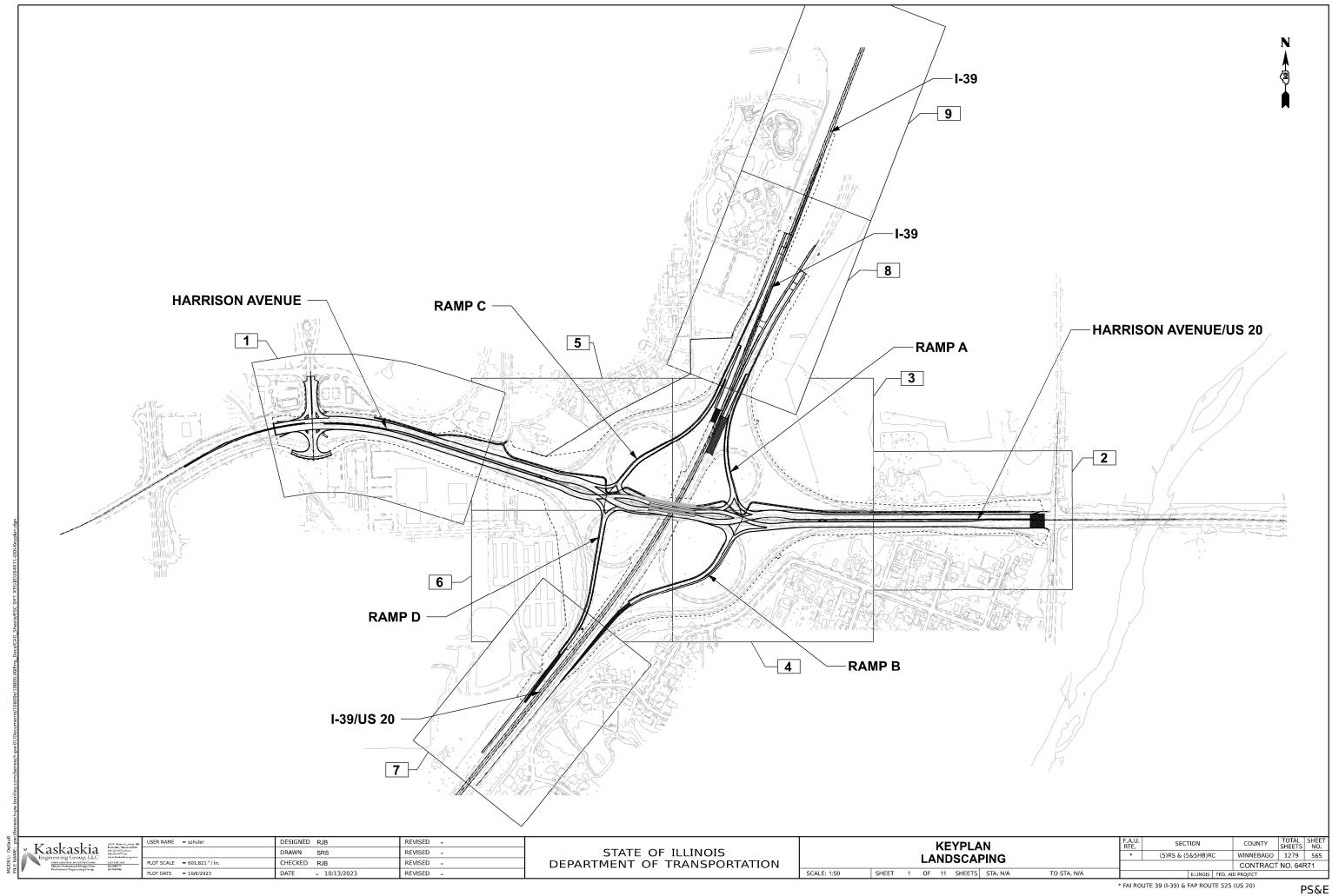
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED - ZLD REVISED -JSER NAME = zdavidson D264R71-SHT-010-Cantilever Boring CHECKED - KWB REVISED -PLOT SCALE = 0.1667 ' / in. DRAWN - ZLD REVISED -PLOT DATE = 10/13/2023 CHECKED - MDC REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

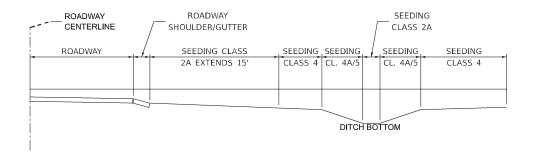
SECTION SOIL BORING LOGS (201-3)K WINNEBAGO 1279 564 **OVERHEAD SIGN STRUCTURES** CONTRACT NO. 64R71 SHEET 10 OF 10 SHEETS



LANDSCAPING GENERAL NOTES

- 1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANTS MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- 2. THE SEEDING DATES FOR BARE EARTH SEEDING SHALL BE FROM MAY 15 TO JUNE 30 AND OCTOBER 15 TO DECEMBER 1, ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATES SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER, FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- 3. SEE EROSION AND SEDIMENT CONTROL AND DRAINAGE PLANS FOR MORE INFORMATION ON EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS LOCATED ON SLOPES STEEPER THAN 3:1 AND ALONG DTICH LINES.
- 4. ALL EROSION CONTROL BLANKET AND TURF REINFORCEMENT MAT WILL BE PLACED AS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLANS AND WILL REMAIN IN PLACE EVEN IF PLACED DURING A TEMPORARY STAGE.
- 5. CLASS 4A AND 5 SEED SHALL BE USED ON ALL BACKSLOPE AND FORESLOPES ON TEH PROJECT. PLEASE REFER TO SPECIAL PROVISION FOR ADDITIONAL INFORMATION AND FOLLOW THE SPECS IN SECTION 250 IN THE MANUAL FOR ANY TEMPORARY DISTURBANCE WITHIN THE PROJECT LIMITS. CLASS 5 INTERSEEDING SHALL BE PAID FOR AS SEEDING, CLASS 5.
- 6. HERBICIDE FOR CLASS 5 INTERSEEDING SHALL BE APPLIED FIRST BEFORE PLANTING ANY PERMANENT SEEDING.

TYPICAL ROADSIDE DITCH SEEDING CROSS SECTION



*FOR DITCHES THAT FALL WITHIN THE 15' OFFSET FROM THE ROADWAY, THE ENTIRE DITCH WILL BE CLASS 2A INCLUDING THE SIDESLOPES AND DITCH BOTTOMS. IN AREAS WHERE ONLY A PORTION OF THE DITCH FALLS WITHIN THE 15' OFFSET FROM THE ROADWAY, ONLY THE FORESLOPE AND DITCH BOTTOM WILL BE CLASS 2A, WHILE THE BACKSLOPE WILL BE CLASS 4A/5 SEEDING. FOR ANY AREAS WHERE THE SLOPE IS GREATER THAN 3:1, CLASS 4 SEEDING WILL BE USED REGARDLESS OF THE PROXIMITY TO THE ROADWAY OR LOCATION WITHIN A DITCHES.

**PLEASE SEE PLANS FOR SEEDING AROUND PROPOSED SIDEWALK LOCATIONS.

TYPICAL RETENTION BASIN SEEDING CROSS SECTION

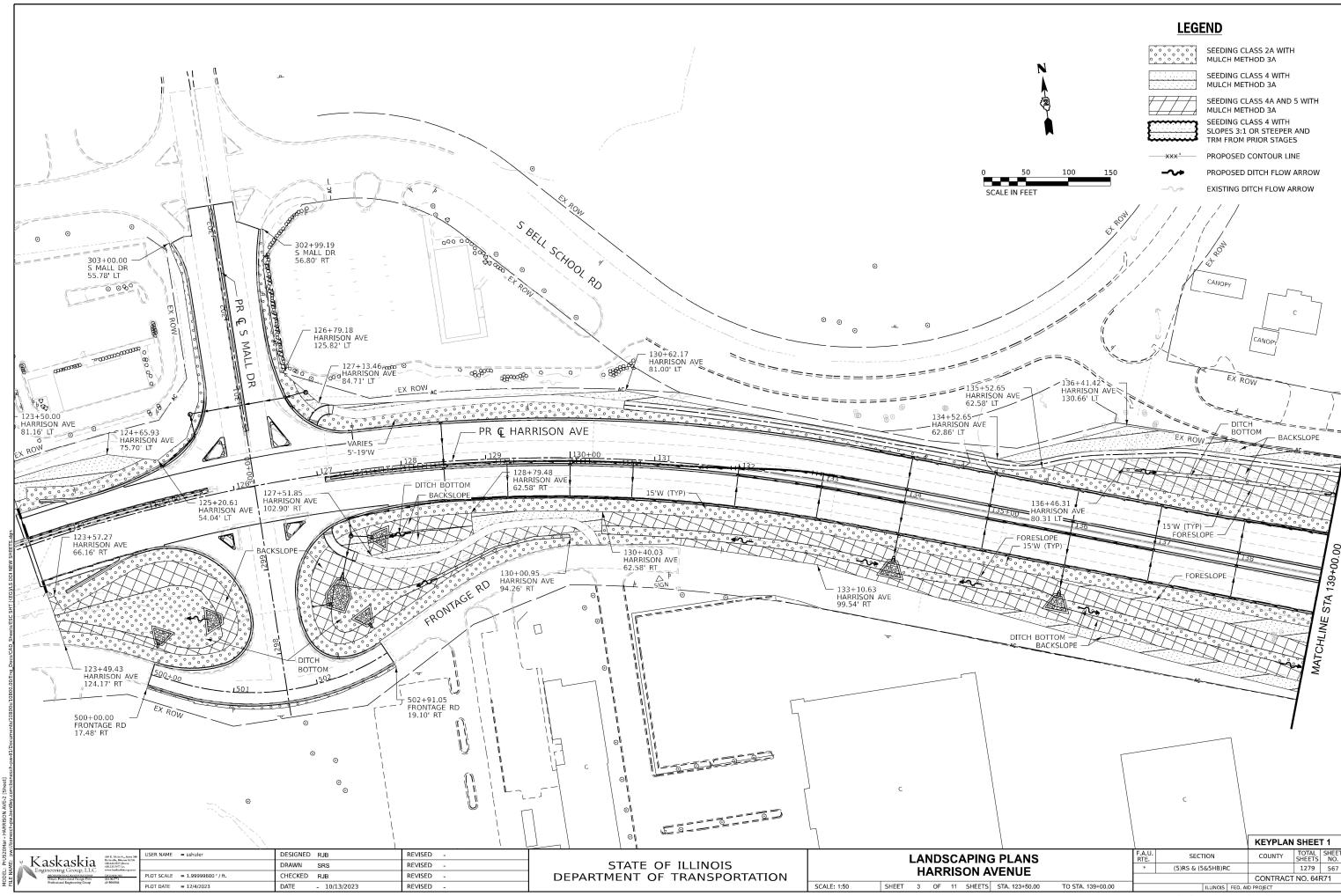
SEEDING	SEEDING	SEEDING	SEEDING	SEEDING
CLASS 4	CLASS 4A/5	CLASS 2A	CLASS 4A/5	CLASS 4
		BASIN BOTTOM		

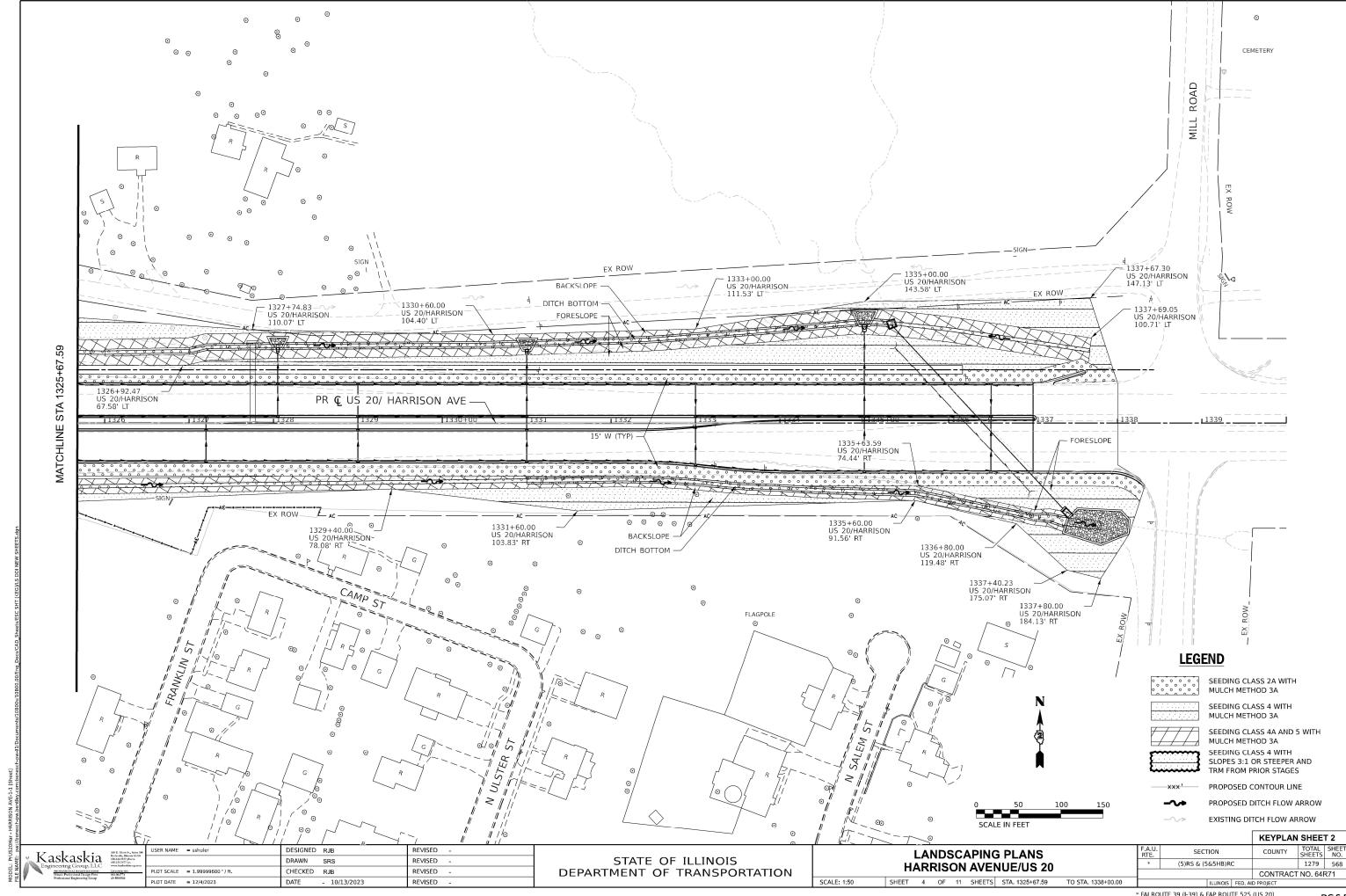
	USER NAME = sshuler	DESIGNED	RJB	REVISED	-	
		DRAWN	SRS	REVISED	-	
	PLOT SCALE = 100,387 ' / in,	CHECKED	RJB	REVISED	-	
ı	PLOT DATE = 12/4/2023	DATE -	- 10/13/2023	REVISED	-	

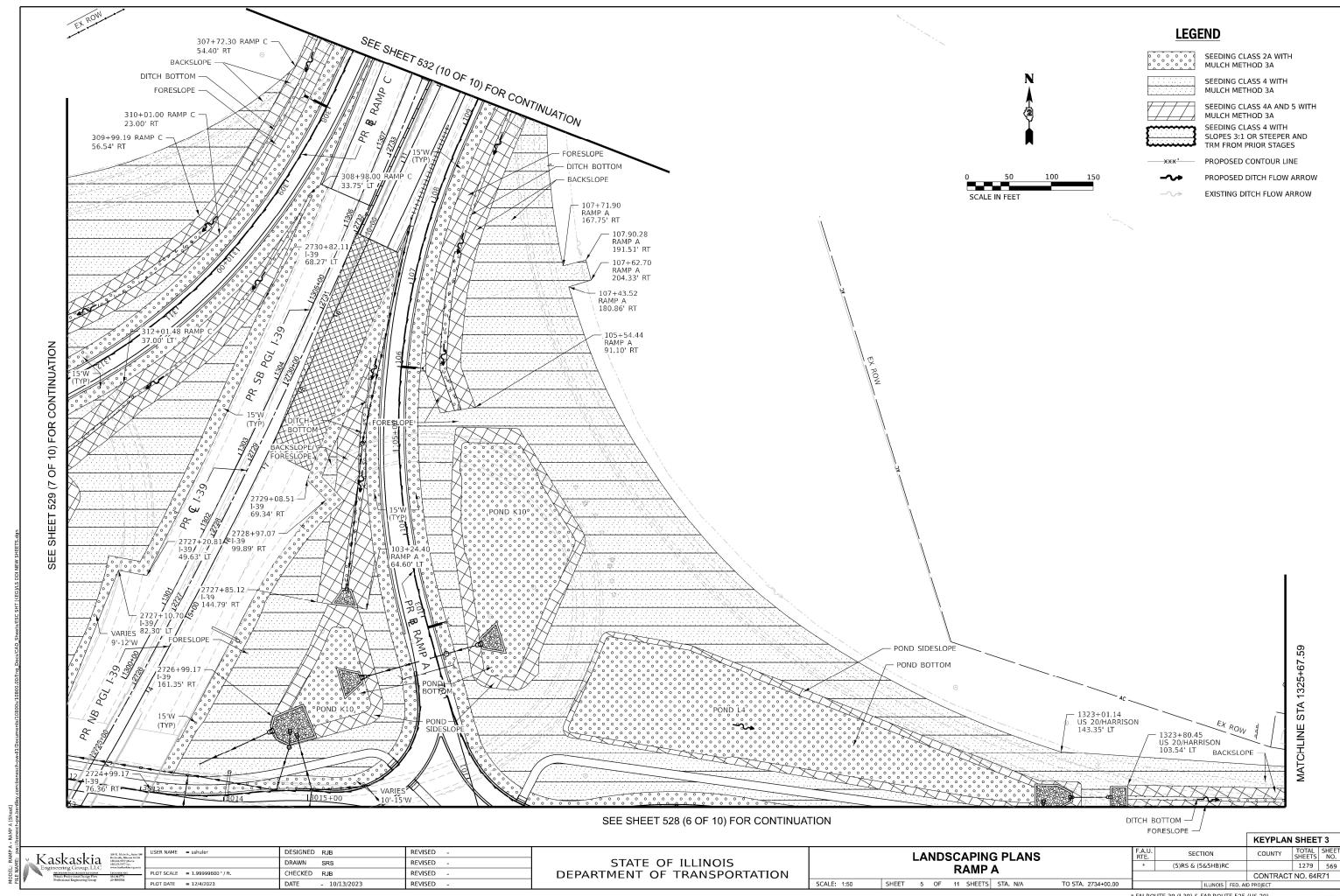
TO STA, N/A

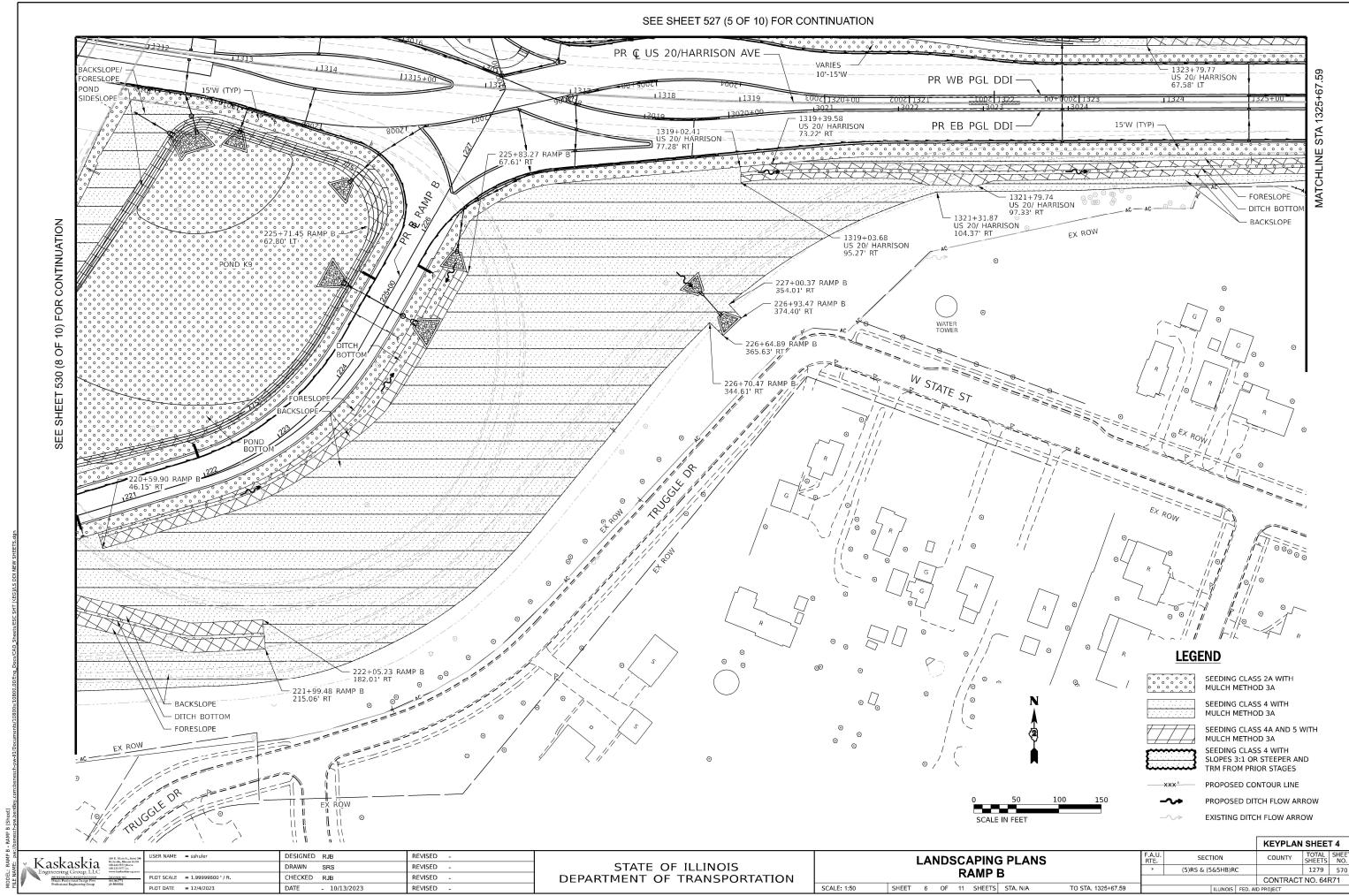
SCALE: NONE

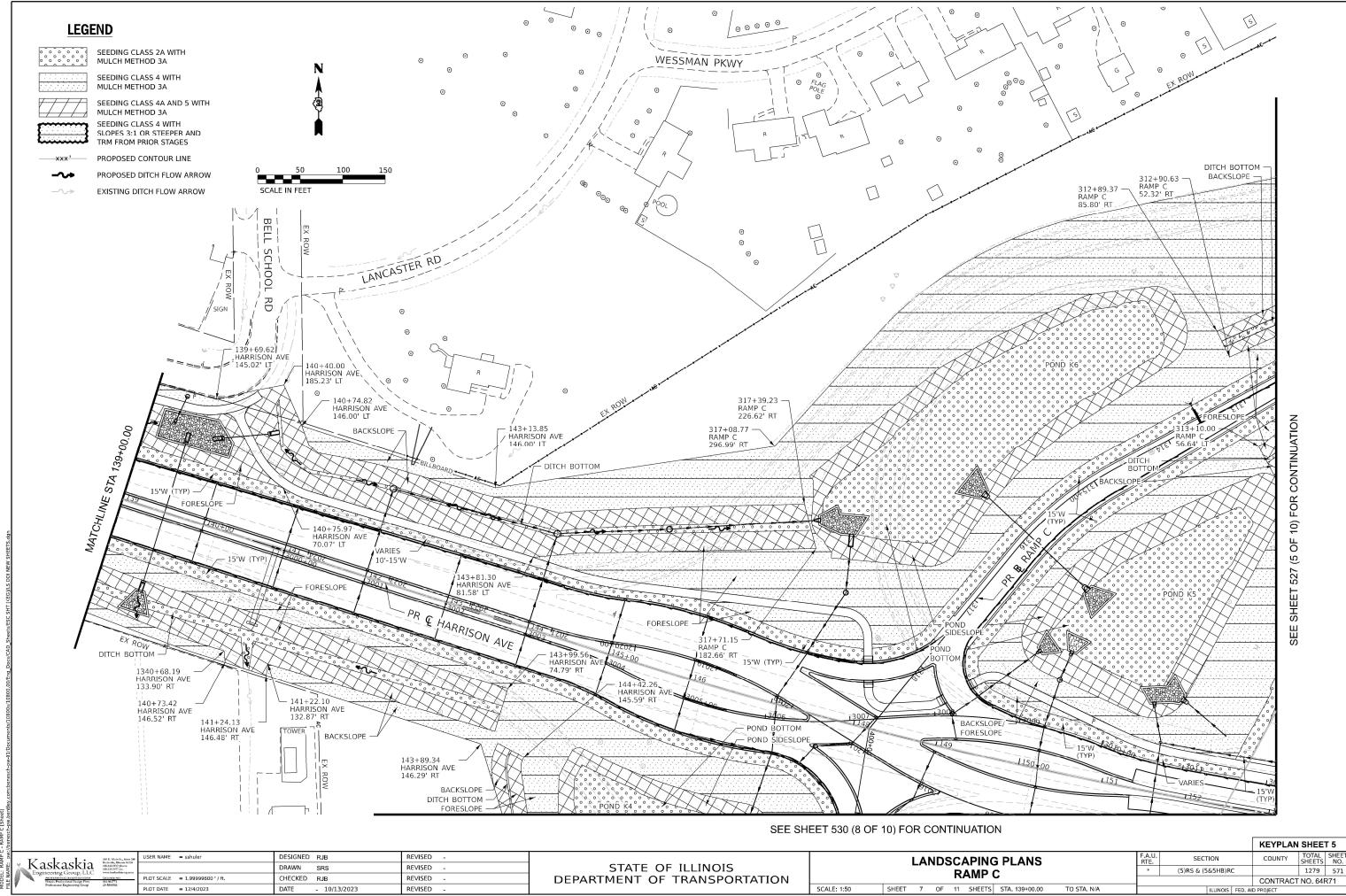
F.A.U. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEE NO.
*	(5)RS & (5	&5HB)R	0	WINNEBAGO	1279	566
				CONTRACT	NO. 64F	₹71
		ILLINOIS	FED. AI	D PROJECT		

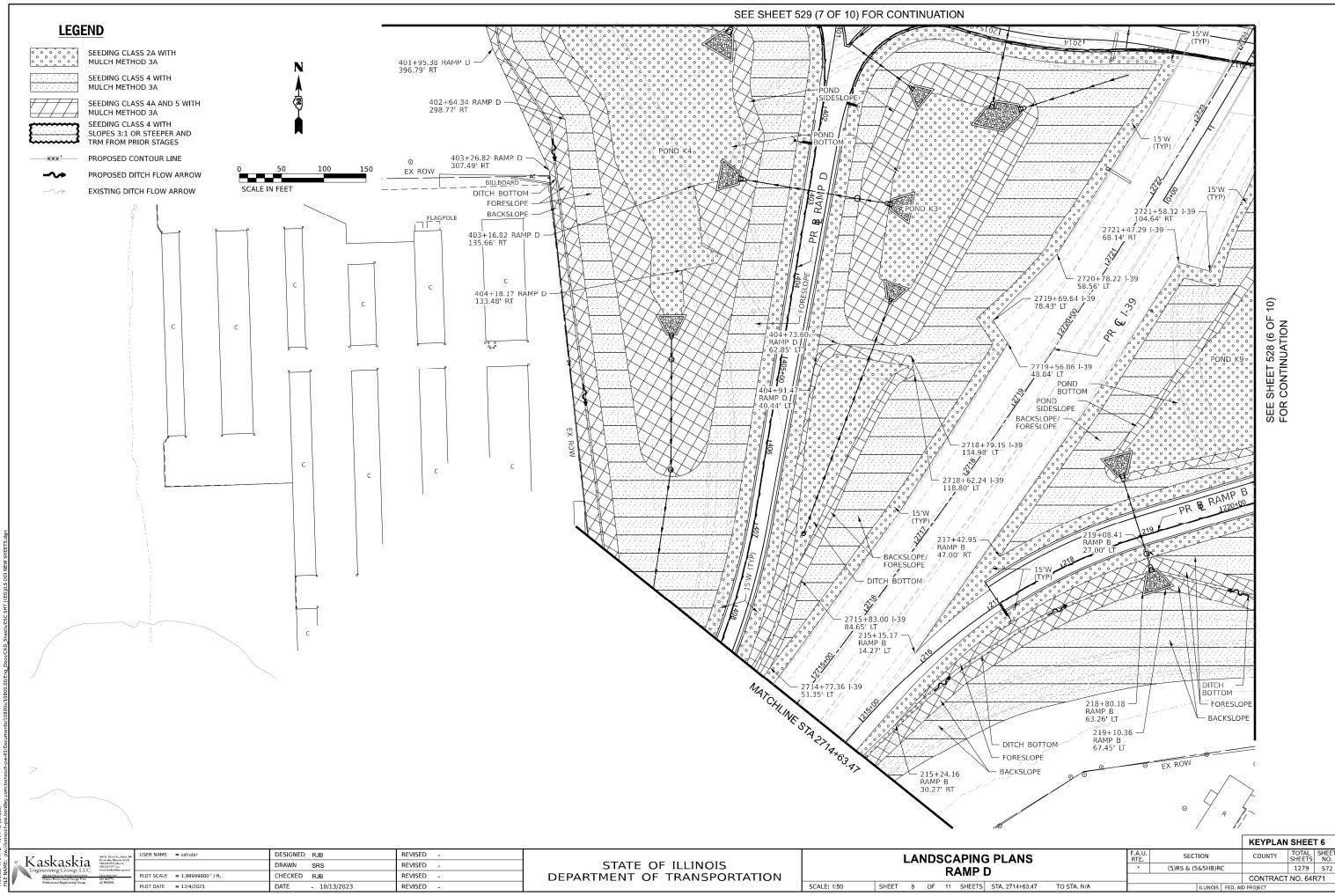


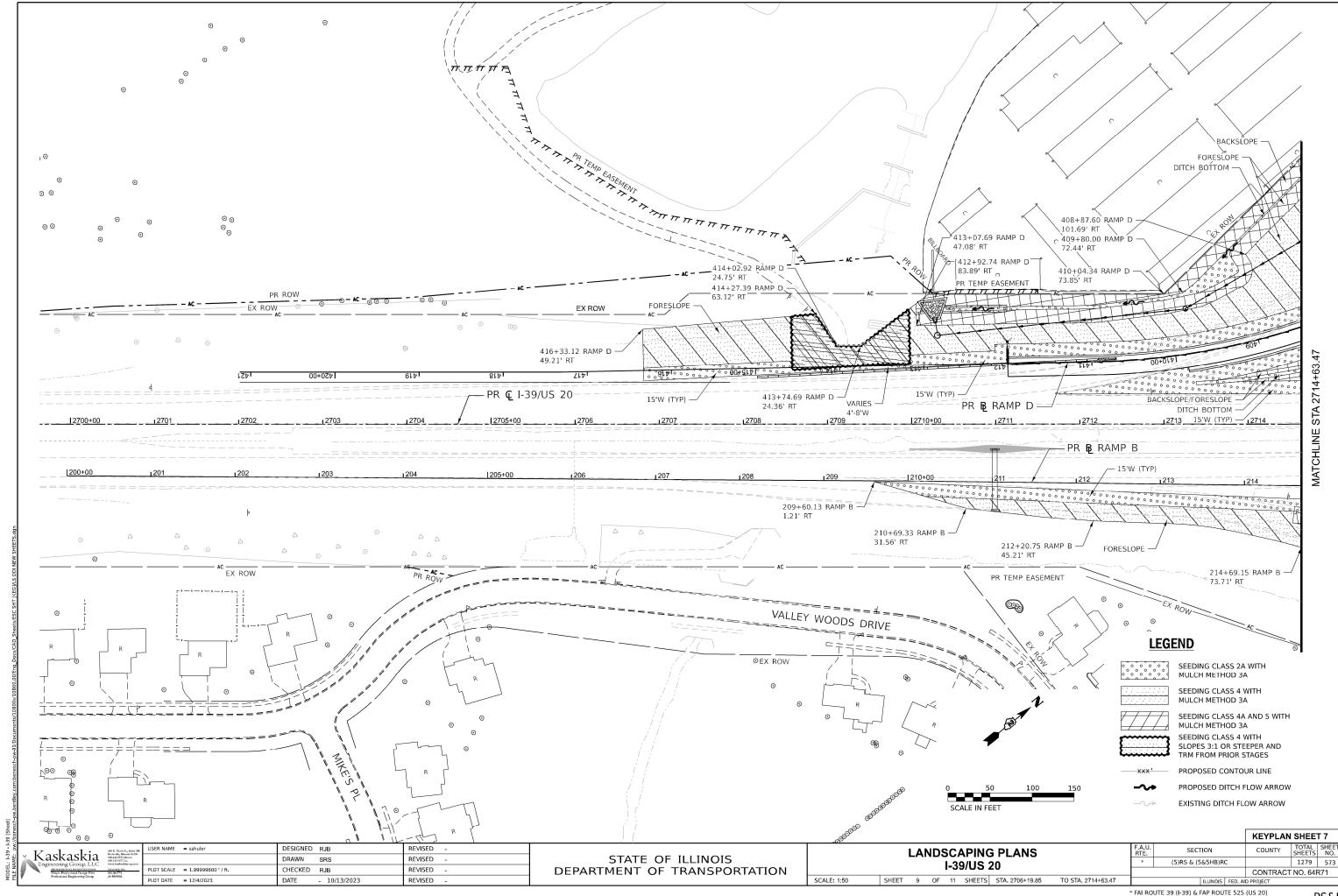


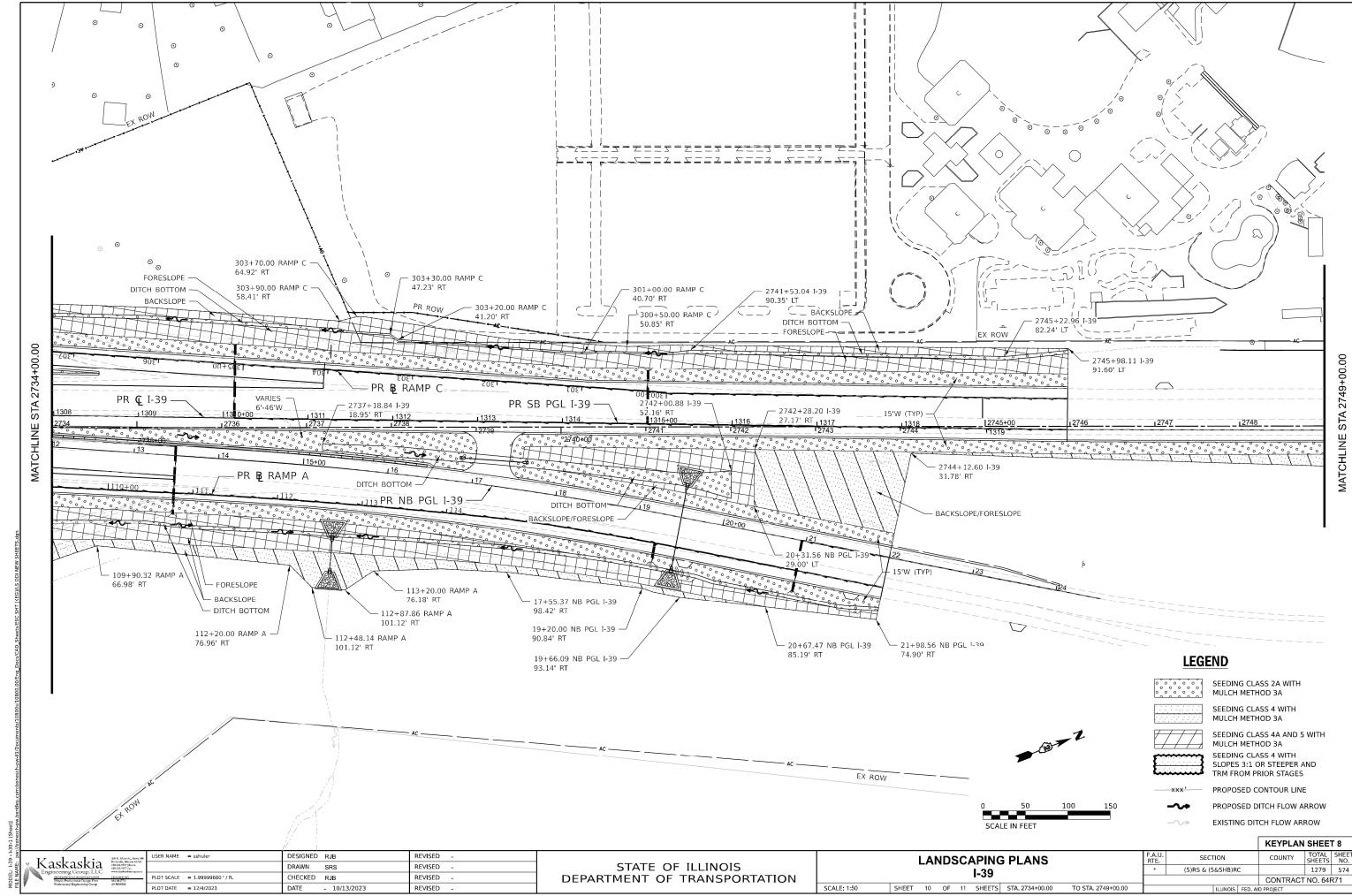


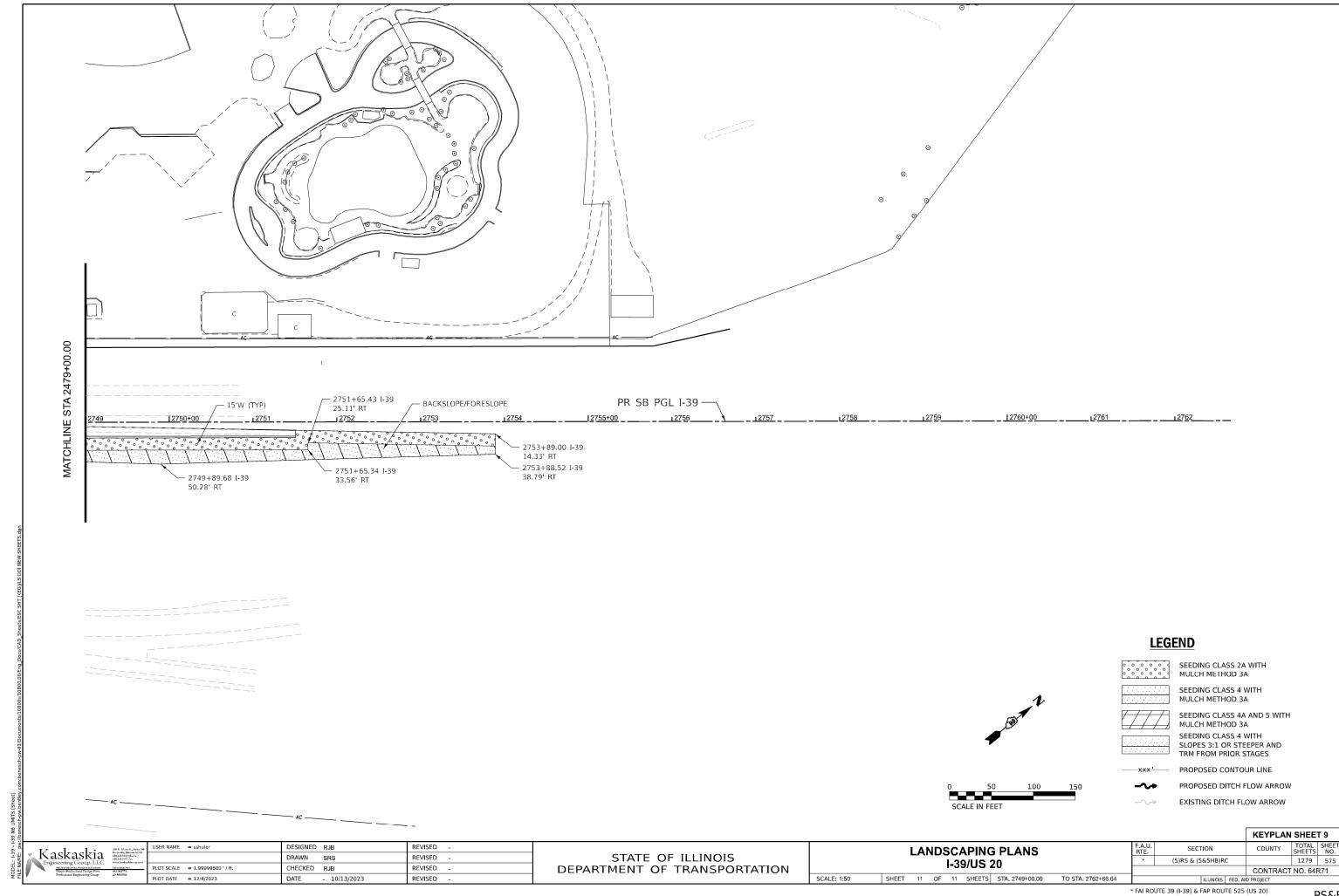


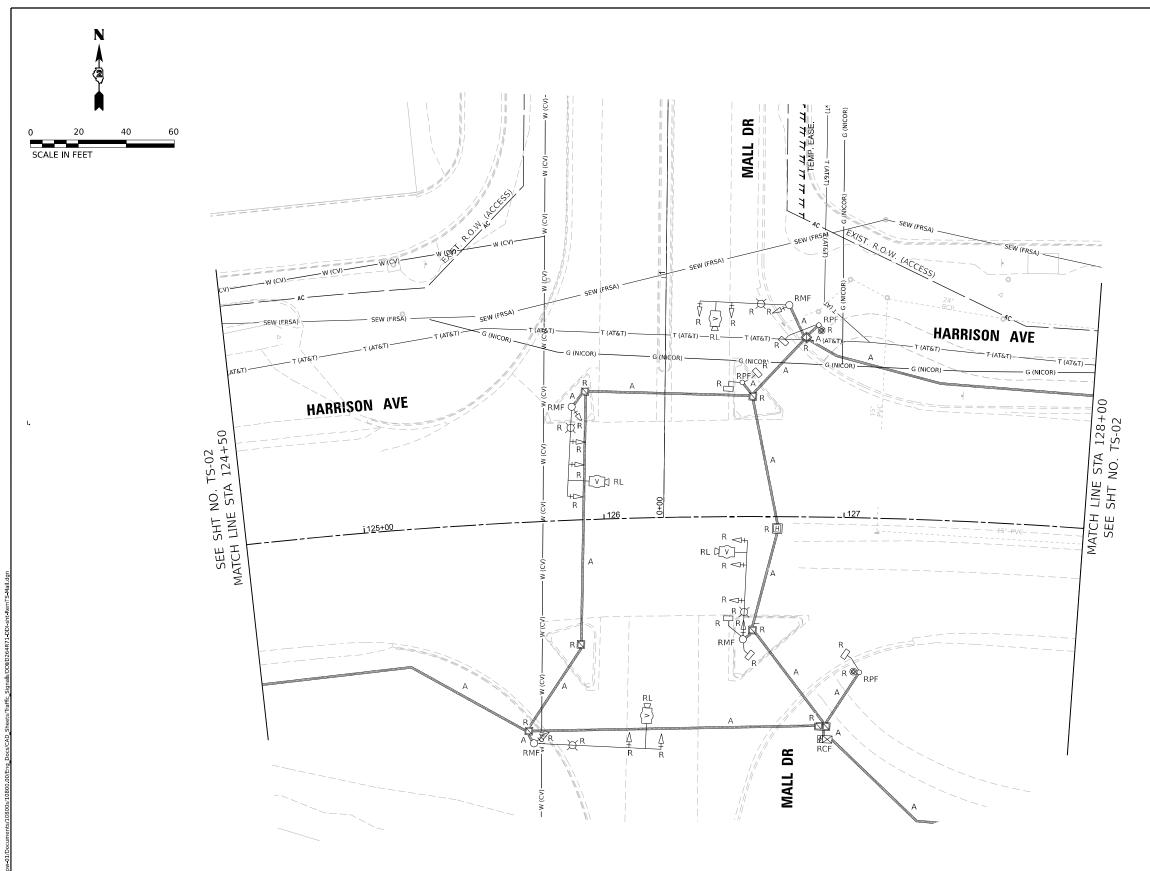












1. EXISTING DETECTOR LOOP WIRES SHALL BE REMOVED PER "DETECTOR LOOP REMOVAL" SPECIFICATION. AFTER DETECTOR LOOP WIRE IS REMOVED, ALL PAVEMENT VOIDS THAT REMAIN SHALL BE FILLED EITHER PER "CRACK ROUTING (PAVEMENT)" OR "JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)" SPECIFICATION. DEPENDING ON THE TYPE OF PAVEMENT.

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE:

CONTROLLER AND CABINET (COMPLETED) EACH

STEEL MAST ARM AND POLE EACH EACH TRAFFIC SIGNAL POST

PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH-BUTTON 3-SECTION SIGNAL HEAD

5-SECTION SIGNAL HEAD EACH

SERVICE INSTALLATION EACH TRAFFIC SIGNAL BACKPLATE

EACH LUMINAIRE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TEMPORARY TRAFFIC SIGNAL INSTALLATION:

4 EACH VIDEO DETECTION CAMERA

GENERAL SIGNAL NOTES

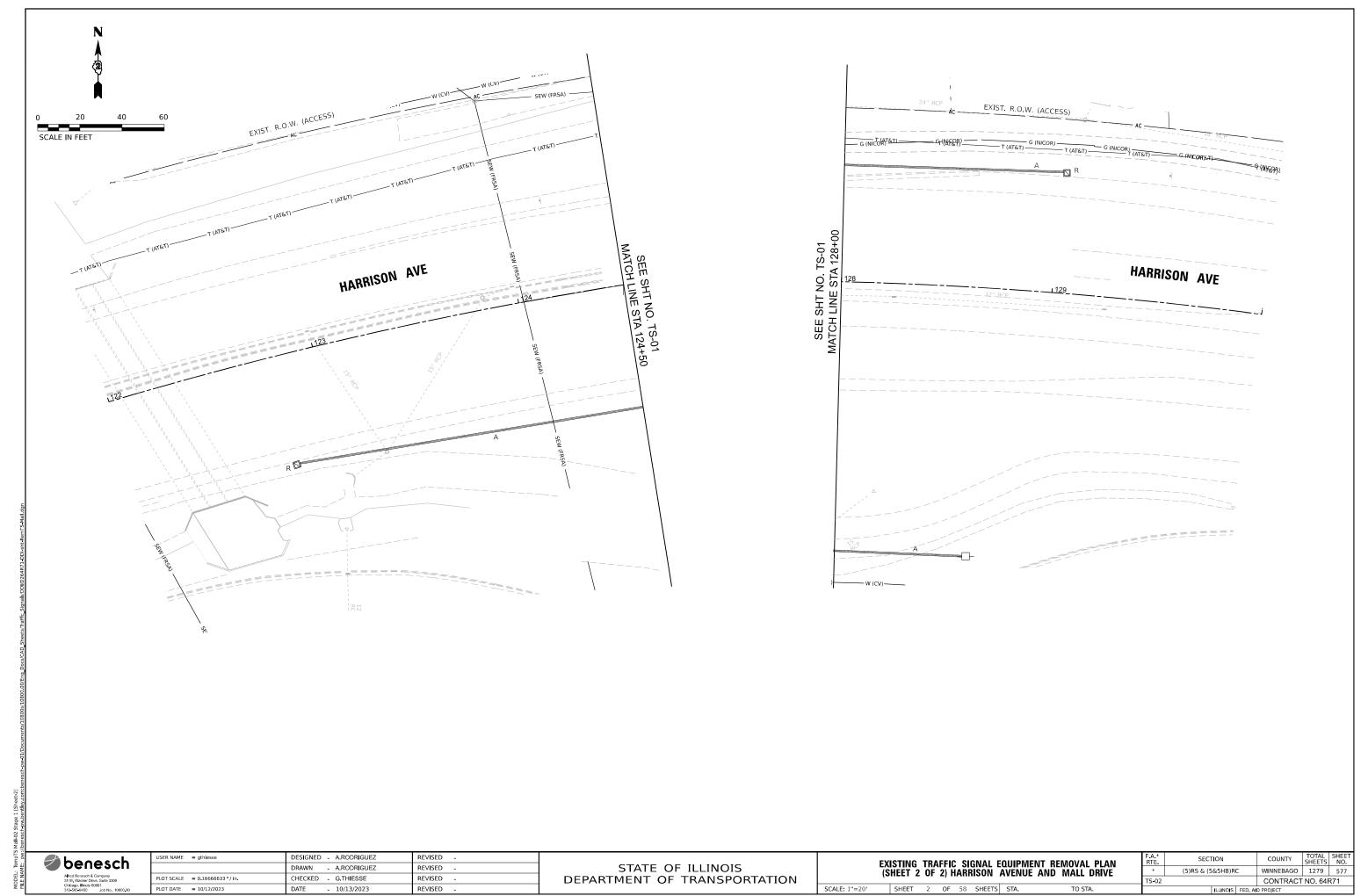
- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800)-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES, 48-HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT 72-HOURS IN ADVANCE OF BEGINNING WORK.
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- 4. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, THE CONTRACTOR SHALL CONTACT THE LOCATION COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING IDOT FACILITITES. THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800)892-0123.
- 5. IF THE CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ON FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT TWO ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGES DURING CONSTRUCTION AT THEIR
- 6. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE AREA ENGINEER, THE RESIDENT ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATIONS
- 7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- 8. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWN SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252
- 9. PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS
- 10. LOCATION WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATIONS FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
- 11. CONTACT SCOTT KULLERSTRAND IDOT BUREAU OF OPERATIONS 815-284-5468, TWO WEEKS IN ADVANCE TO DISCUSS PROPOSED CONSTRUCTION TRAFFIC PLANS AND TO ASSIST WITH SIGNAL TIMINGS.

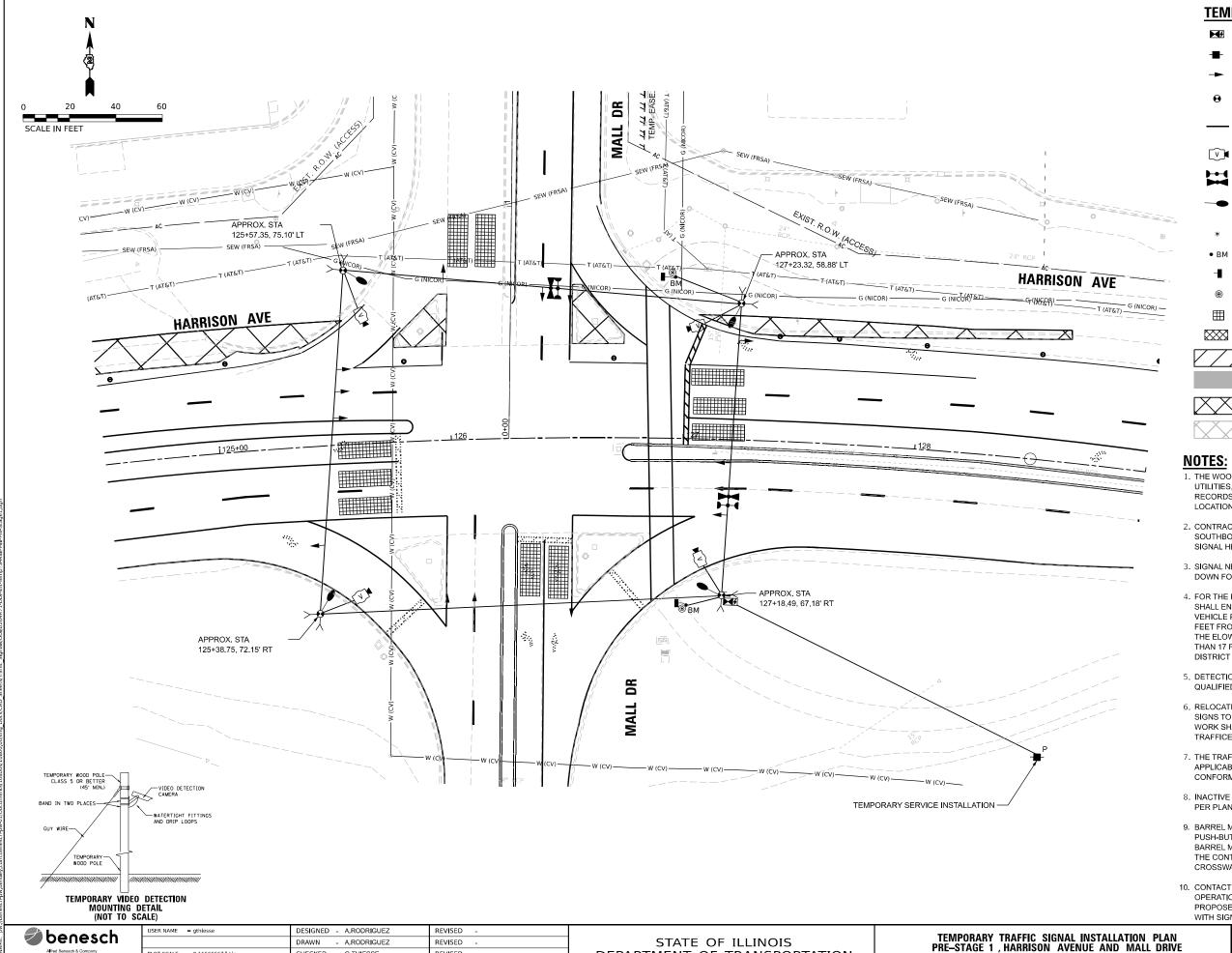
1	benesch
	Alfred Benesch & Company 35 W, Wacker Drive, Suite 3300 Chicago, Illinois 60601

USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED -
	DRAWN - A.RODRIGUEZ	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED - G.THIESSE	REVISED -
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVAL PLAN (SHEET 1 OF 2) HARRISON AVENUE AND MALL DRIVE SHEET 1 OF 58 SHEETS STA.

F.A.* RTE	SECTION	COUNTY	TOTAL SHEETS	SHE	
*	(5)RS & (5&5HB)RC	WINNEBAGO	1279	57	
TS-01			CONTRACT	NO. 64F	₹71
	ILLINOIS F	FED. AI	D PROJECT		





TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY SIGNAL CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY SIGNAL HEAD
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
 - TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY VIDEO DETECTION CAMERA
- TEMPORARY VEHICLE LIGHT DETECTOR/ CONFIRMATION BEACON
- TEMPORARY 15' MAST ARM AND LED LUMINAIRE OUTPUT DESIGNATION G
- BAG AND DEACTIVATE ENTIRE SIGNAL HEAD
- TEMPORARY BARREL MOUNTED POST
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON
- VIDEO DETECTION
- IMPACT ATTENUATORS, TEMPORARY



COMPLETED CONSTRUCTION (PREVIOUS STAGE WORK ZONE)



TEMPORARY PAVEMENT



COMPLETED TEMPORARY PAVEMENT (PREVIOUS STAGE WORK ZONE)

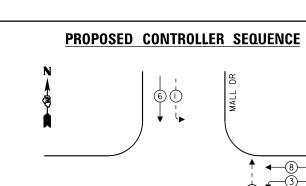
- 1. THE WOOD POLES SHALL BE LOCATED TO AVOID BURIED UTILITIES. LOCATIONS OF BURIED UTILITIES ARE BASED ON RECORDS. THE CONTRACTOR SHALL FIELD SURVEY THE FINAL LOCATION OF EACH WOOD POLE.
- 2. CONTRACTOR TO RELOCATE (ON SPAN WIRE) NORTHBOUND, SOUTHBOUND, EASTBOUND, AND WESTBOUND TEMPORARY SIGNAL HEADS ACCORDINGLY DURING MOT LANE SHIFTING.
- 3. SIGNAL NETWORK AND TRAFFIC CAMERAS SHALL NOT BE DOWN FOR MORE THAN FOUR HOURS.
- 4. FOR THE PURPOSE OF ADVANCE DETECTION, THE CONTRACTOR SHALL ENSURE THE VERTICAL CLEARANCE OF THE EMERGENCY VEHICLE PREEMPTION (EVP) EQUIPMENT TO BE BETWEEN 17-18 FEET FROM THE TOP OF ROADWAY GRADE TO THE BOTTOM OF THE ELOWEST PART OF THE EVP EQUIPMENT, BUT NO LESS THAN 17 FEET. CONTACT CHERRY VALLEY FIRE PROTECTION DISTRICT 815-332-5382 TO VERIFY APPROPRIATE OPERATIONS.
- 5. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
- 6. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFICE SIGNAL INSTALLATION.
- 7. THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS AND ALL WORK SHALL CONFORM TO NEC REQUIREMENTS.
- 8. INACTIVE SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED
- 9. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CROSSWALK ACCESS AT ALL TIMES.
- 10. CONTACT SCOTT KULLERSTRAND IDOT BUREAU OF OPERATIONS 815-284-5468, TWO WEEKS IN ADVANCE TO DISCUSS PROPOSED CONSTRUCTION TRAFFIC PLANS AND TO ASSIST WITH SIGNAL TIMINGS.

CHECKED - G.THIESSE REVISED PLOT DATE = 10/12/2023 REVISED - 10/13/2023

DEPARTMENT OF TRANSPORTATION

SHEET 3 OF 58 SHEETS STA.

(5)RS & (5&5HB)RC WINNEBAGO 1279 578 CONTRACT NO. 64R71



LEGEND:

HARRISON AVE

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →
 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

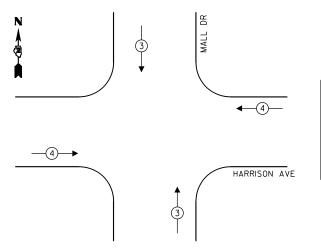
 Description

 PEDESTRIAN

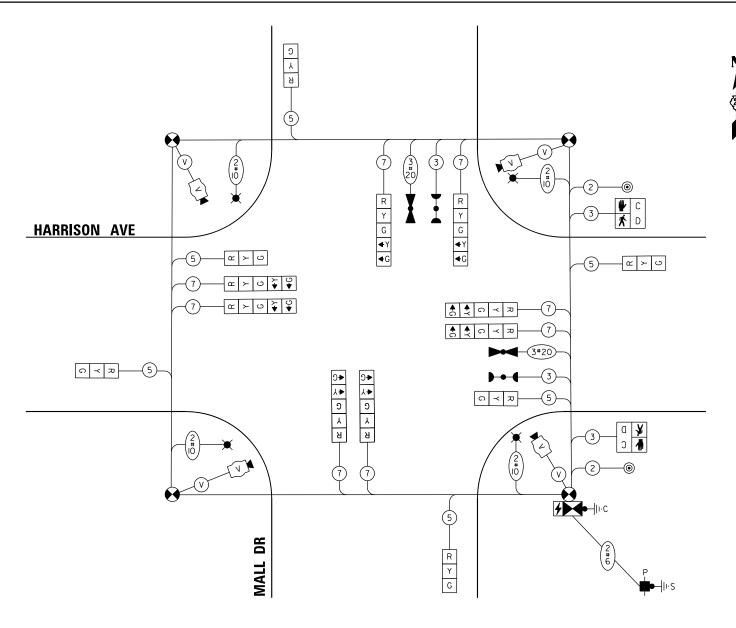
 PHASE

 P
- OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPT	000
	OK2
VEHICLE 3 4 PREEMPTOR	
MOVEMENT	•



CABLE PLAN (NOT TO SCALE)

PHASE SEQUENCE CHART

	- @-		1 (5) 1 1
	- 00	6	60,00
-07	@4)		

SUGGESTED TIMINGS (SECONDS)

	0000	LUILD		GLOOI	100/			
ТҮРЕ	1	2	3	4	5	6	7	8
MINIMUM GREEN	3	8	3	15	3	8	3	15
PASSAGE	3	4	3	7	3	4	3	7
MAXIMUM I	15	50	15	60	15	50	15	60
YELLOW CHANGE	3.5	4	3.5	4	3.5	4	3.5	4
RED CLEARANCE	0	2	1	2	0	2	1	2
RECALL MODE	OFF	OFF	OFF	MIN	OFF	OFF	OFF	MIN
WALK		7						
FLASH DW		43						
ACTUATED CYCLE LENGTH = 120								

NOTES:

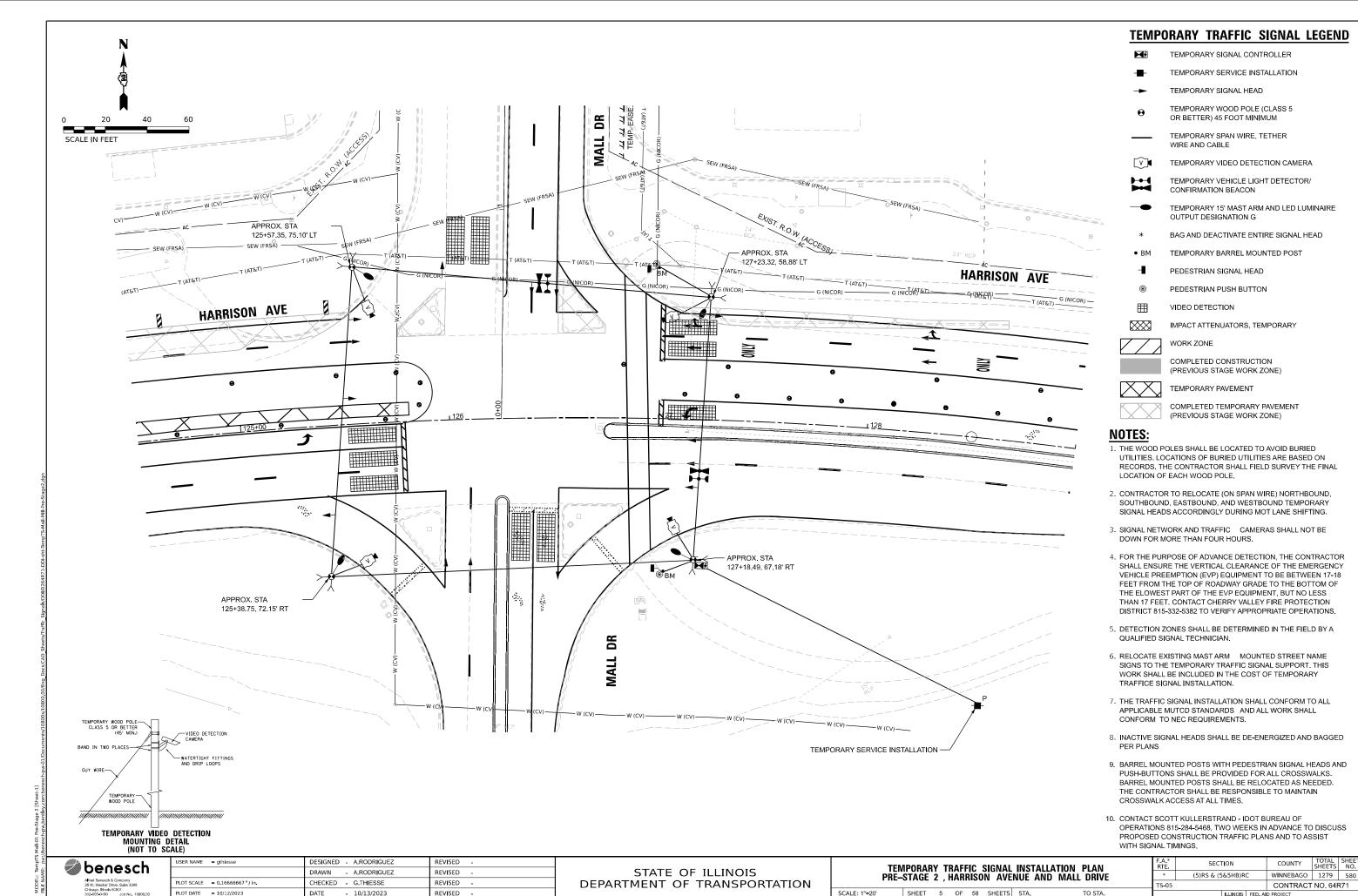
I. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

øber	nesch
Alfred Benesch	& Company
35 W. Wacker	Drive, Suite 3300
Chicago, Illinois	s 60601
312-565-0450	Job No. 10800 00

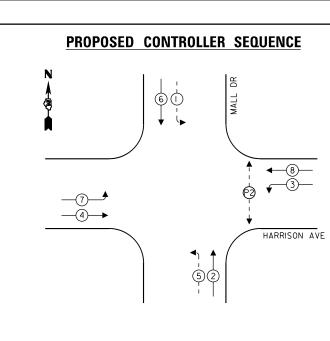
USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

AND TEMP	ORARY	EME	RGE	NCY	VEHIC	LE PR	DESIGNATION DIAGRAM, EEMPTION SEQUENCE, AND MALL DRIVE	F. R
SCALE: NTS	SHEET	4	OF	58	SHEETS	STA.	TO STA.	Ë

F.A.* RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
*	(5)RS & (5&5HB)R0	WINNEBAGO	1279	579	
TS - 04			CONTRACT	NO. 64F	۲71
	ILLINOIS	FED. AI	D PROJECT		



* FAI ROUTE 39 (I-39) & FAP ROUTE 525 (US 20)



LEGEND:

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →

 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

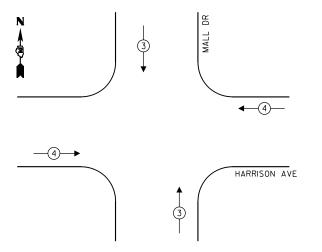
 Output

 Description

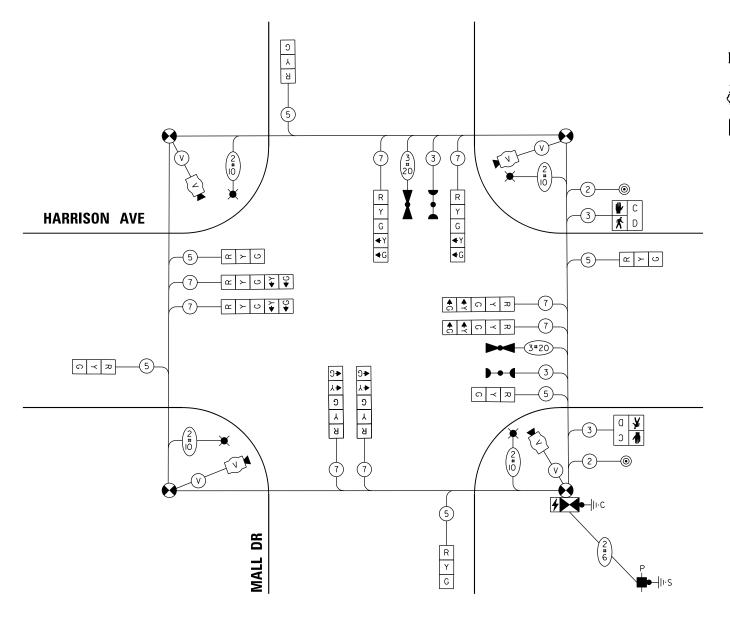
 PHASE

 PHASE
- ◆ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY E	MERGENCY VEHIC	CLE PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	—



CABLE PLAN (NOT TO SCALE)

PHASE SEQUENCE CHART

,—®—	₩	
	-@-	

SUGGESTED TIMINGS (SECONDS)

	<u>300</u>	GLUILD	IIIVIIIV	3 (SEU	JINDO			
ТҮРЕ	1	2	3	4	5	6	7	8
MINIMUM GREEN	3	8	3	15	3	8	3	15
PASSAGE	3	4	3	7	3	4	3	7
MAXIMUM I	15	50	15	60	15	50	15	60
YELLOW CHANGE	3.5	4	3.5	4	3.5	4	3.5	4
RED CLEARANCE	0	2	1	2	0	2	1	2
RECALL MODE	OFF	OFF	OFF	MIN	OFF	OFF	OFF	MIN
WALK		7						
FLASH DW		43						
ACTUATED CYCLE LENGTH = 120								

NOTES:

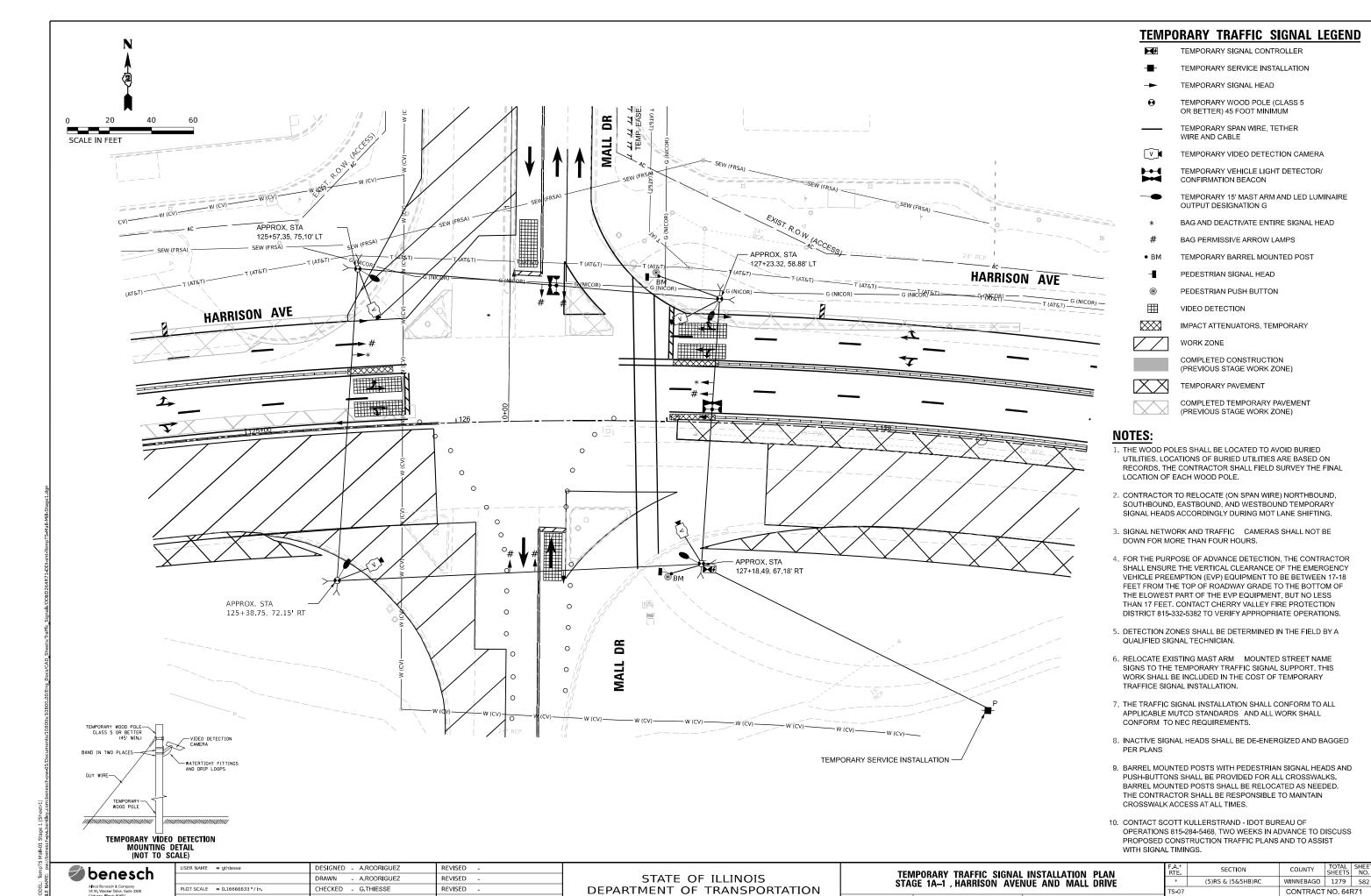
I. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.



	USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED
		DRAWN - A.RODRIGUEZ	REVISED
	PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
	PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED
7			

I	TEMPORARY O	ABLE F	LAN	I, TEN	/IPO	RARY F	PHASE	DESIGNATION DIAGRAM,	F
١								EEMPTION SEQUENCE,	
l	PRE-STAGE 2 - HARRISON AVENUE AND MALL DRIVE								Т
l	SCALE: NTS	SHEET	6	OF	58	SHEETS	STA.	TO STA.	Г

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
*	(5)RS & (5&5HB)RC		WINNEBAGO	1279	581		
TS-06			CONTRACT	NO. 64F	٦71		
	ILLINOIS	FED. AID PROJECT					



PLOT DATE = 10/12/2023

DATE

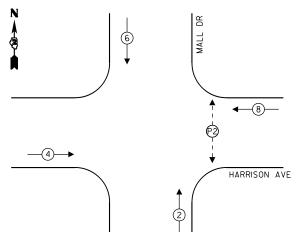
- 10/13/2023

REVISED

SHEET 7 OF 58 SHEETS STA.

CONTRACT NO. 64R71

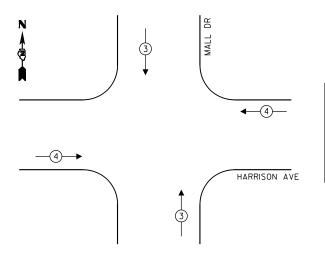




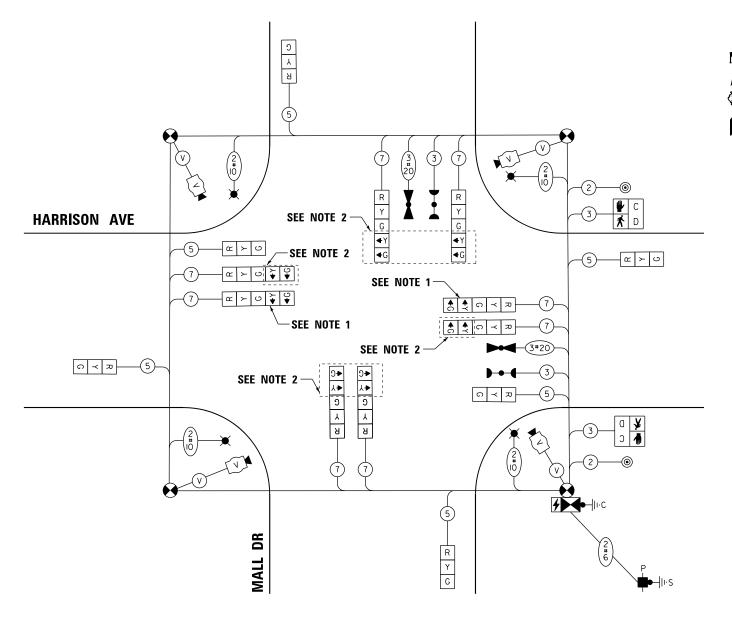
LEGEND:

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →
 PEDESTRIAN PHASE
- ◆ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

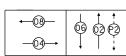


TEMPORARY EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	1	—						



CABLE PLAN (NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

ТҮРЕ	1	2	3	4	5	6	7	8
MINIMUM GREEN		8		15		8		15
PASSAGE		4		7		4		7
MAXIMUM I		60		60		60		60
YELLOW CHANGE		4		4		4		4
RED CLEARANCE		2		2		2		2
RECALL MODE		OFF		MIN		OFF		MIN
WALK		7						
FLASH DW		43						
ACTUATED CYCLE LENGTH = 120								

NOTES:

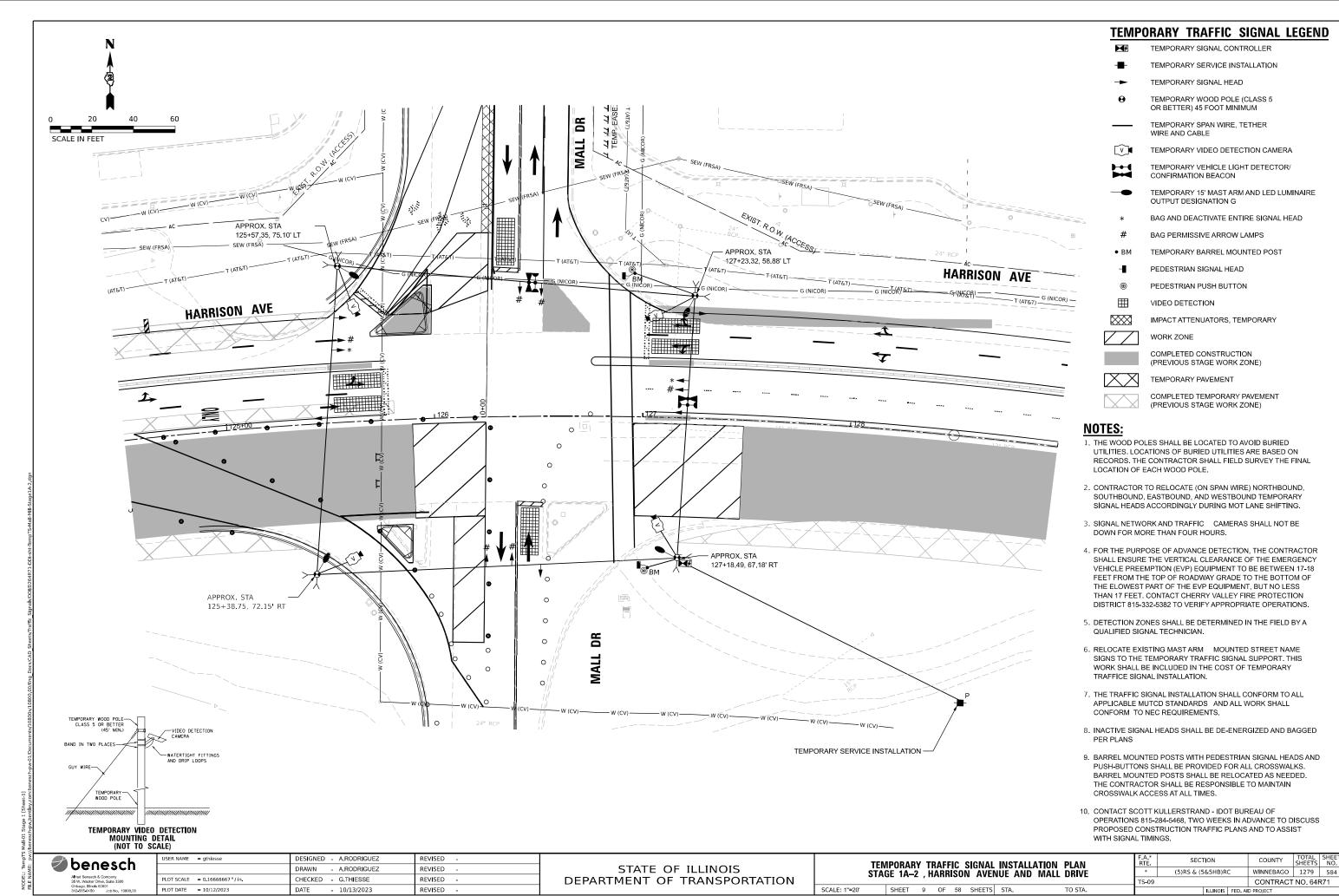
- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

benesch
Alfred Benesch & Company
35 W. Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Joh No. 10800 00

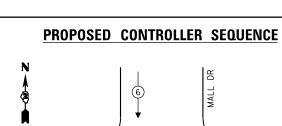
USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

TEMPORARY C	ABLE PLA	N, TEMPO	RARY PHA	SE DESIGNATION	DIAGRAM,		
				PREEMPTION SEC			
STAG	STAGE 1A-1 - HARRISON AVENUE AND MALL DRIVE						
SCALE: NTS	SHEET 8	OF 58	SHEETS ST.	A TO S	ΓA. –		

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE	
*	(5)RS & (5&5HB)RC	WINNEBAGO	1279	58	
TS-08			CONTRACT	NO. 64F	₹71
	ILLINOIS	FED. AI	D PROJECT		



* FAI ROUTE 39 (I-39) & FAP ROUTE 525 (US 20)



€

LEGEND:

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →
 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

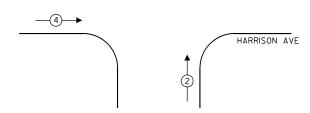
 PHASE

 Output

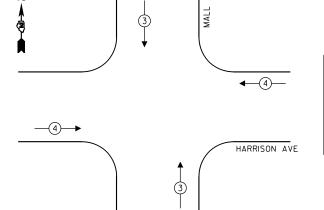
 Description

 PHASE

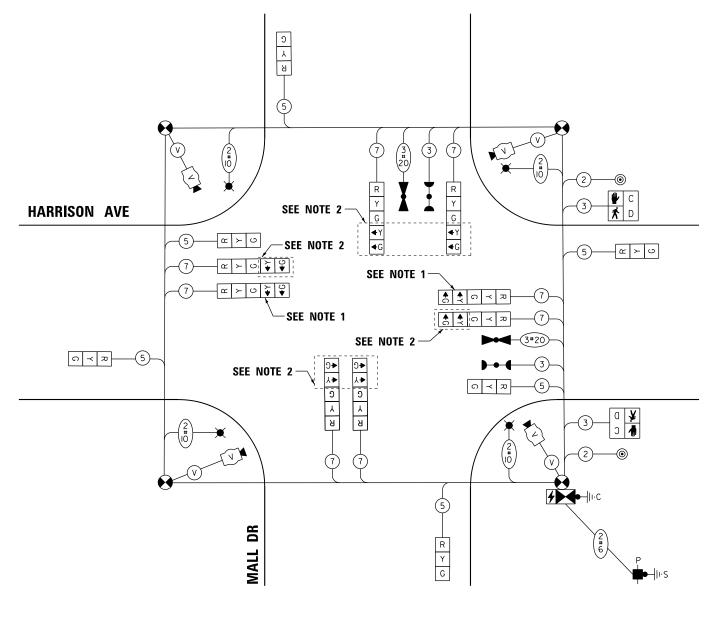
 P
- ◆ OL OVERLAP



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

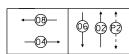


TEMPORARY EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	↓ ↑	—						



CABLE PLAN (NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

ТҮРЕ	1	2	3	4	5	6	7	8
MINIMUM GREEN		8		15		8		15
PASSAGE		4		7		4		7
MAXIMUM I		60		60		60		60
YELLOW CHANGE		4		4		4		4
RED CLEARANCE		2		2		2		2
RECALL MODE		OFF		MIN		OFF		MIN
WALK		7						
FLASH DW		43						
ACTUATED CYCLE LENGTH = 120								

NOTES:

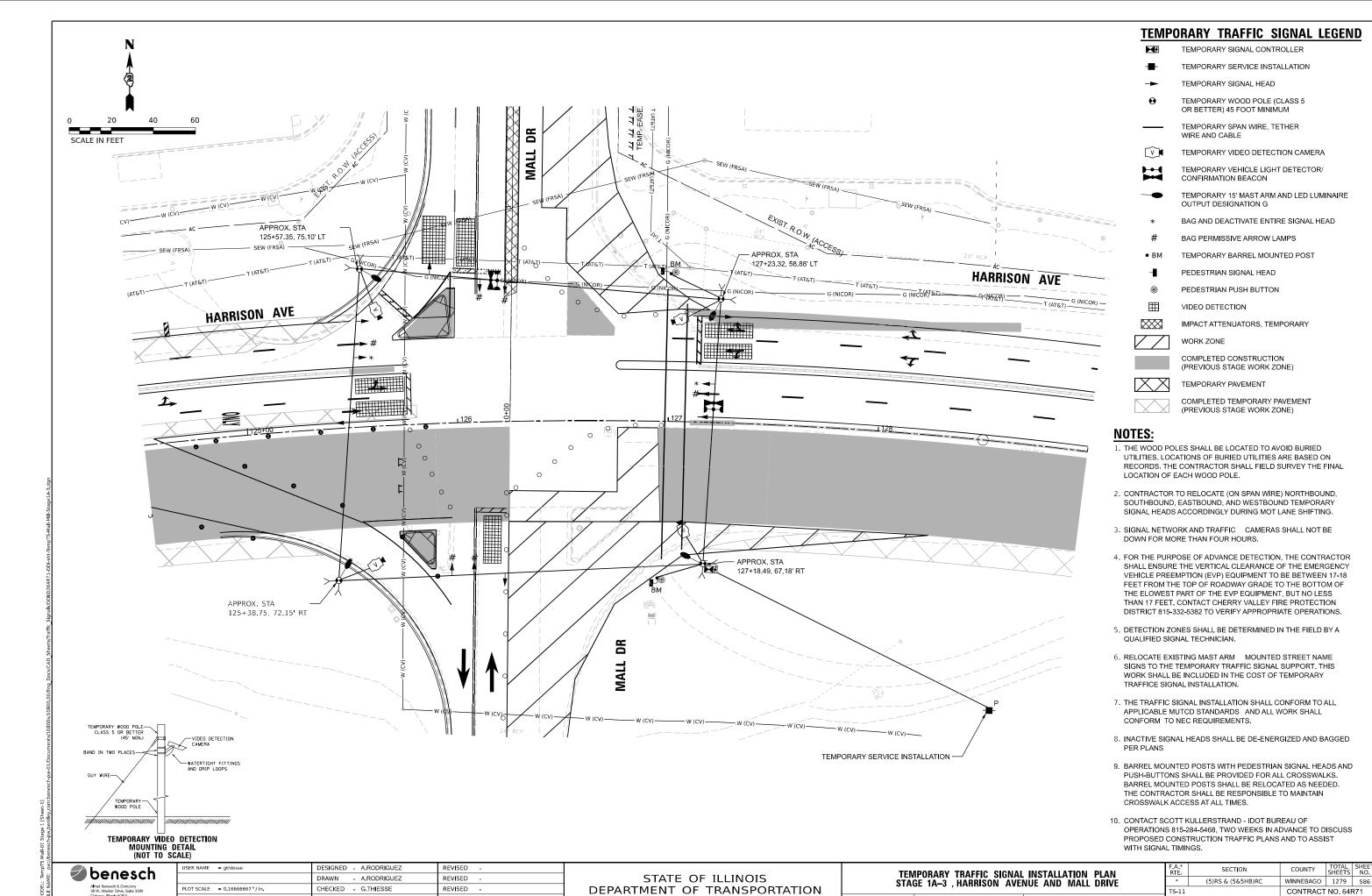
- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

1	ben	esch	
3	Alfred Benesch & 85 W. Wacker Driv Chicago, Illinois 60 812-565-0450	re, Suite 3300	

USER NAME = gthlesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

TEMPORARY (CABLE F	LAN	, TEN	MP0	RARY F	PHASE	DESIGNATION DIAGRAM,	F
							EMPTION SEQUENCE , ND MALL DRIVE	T
SCALE: NTS	SHEET	10	OF	58	SHEETS	STA.	TO STA.	1

F.A.* RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
*	(5)RS & (5&5HB)R	WINNEBAGO	1279	585	
TS-10			CONTRACT	NO. 64F	٦71
	ILLINOIS	FED. AI	D PROJECT		



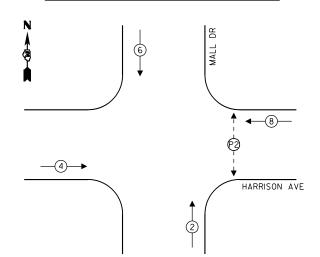
PLOT DATE = 10/12/2023

DATE

- 10/13/2023

REVISED

SHEET 11 OF 58 SHEETS STA.



LEGEND:

- **←**PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →

 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

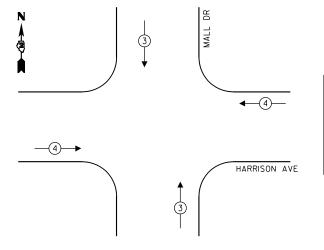
 Output

 Description

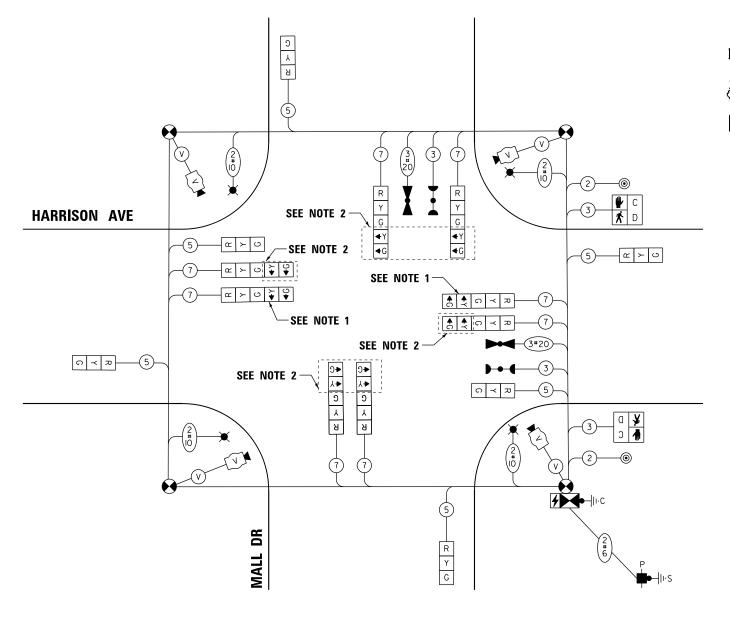
 PHASE

 PH
- ◆ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

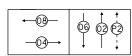


TEMPORARY E	MERGENCY VEHIC	LE PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	—



CABLE PLAN (NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

ТҮРЕ	1	2	3	4	5	6	7	8
MINIMUM GREEN		8		15		8		15
PASSAGE		4		7		4		7
MAXIMUM I		60		60		60		60
YELLOW CHANGE		4		4		4		4
RED CLEARANCE		2		2		2		2
RECALL MODE		OFF		MIN		OFF		MIN
WALK		7						
FLASH DW		43						
ACTUATED CYCLE LENGTH = 120								

NOTES:

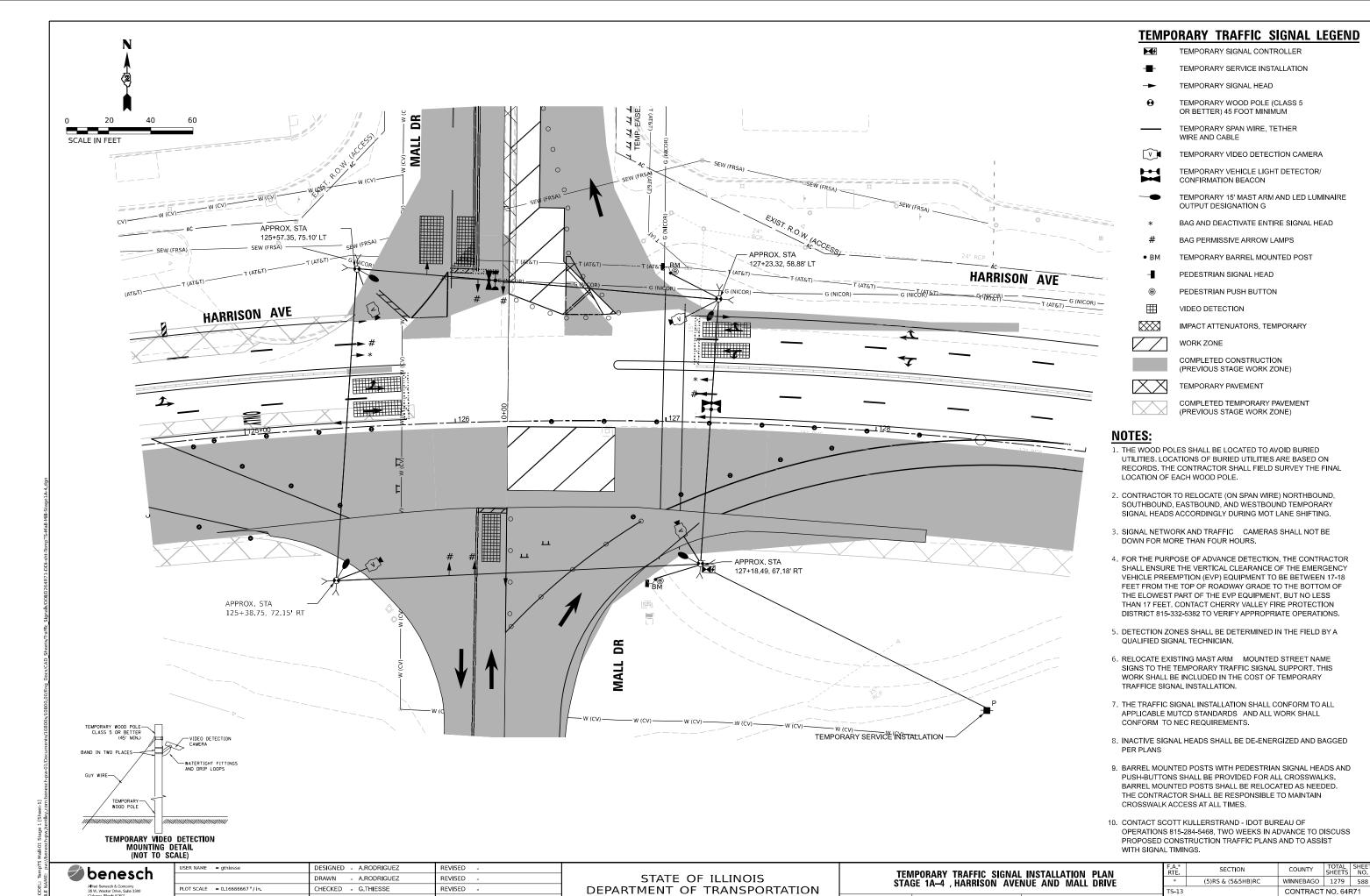
- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

9	benesch
	Alfred Benesch & Company
	35 W. Wacker Drive, Suite 3300
	Chicago, Illinois 60601
	312-565-0450 Job No. 10809.00

	USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED
		DRAWN - A.RODRIGUEZ	REVISED
	PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
	PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED
7			

TEMPORARY C	ABLE PI	LAN,	TEN	/IPO	RARY F	PHASE [ESIGNATION DIAGRAM,	F
								_
								E
	AND TEMPO	AND TEMPORARY I STAGE 1A-3	AND TEMPORARY EMEI STAGE 1A-3 - H	AND TEMPORARY EMERGEI STAGE 1A-3 – HARR	AND TEMPORARY EMERGENCY STAGE 1A-3 - HARRISOI	AND TEMPORARY EMERGENCY VEHIC STAGE 1A-3 – HARRISON AVE	AND TEMPORARY EMERGENCY VEHICLE PREE STAGE 1A-3 – HARRISON AVENUE AN	TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE, STAGE 1A–3 – HARRISON AVENUE AND MALL DRIVE SCALE: NTS SHEET 12 OF 58 SHEETS STA. TO STA.

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
*	(5)RS & (5&5HB)R	WINNEBAGO	1279	587	
TS-12			CONTRACT	NO. 64F	٦71
	ILLINOIS	FED. AI	D PROJECT		



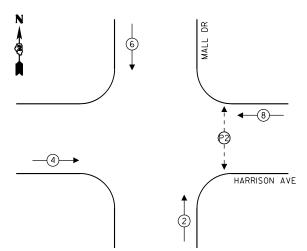
PLOT DATE = 10/12/2023

DATE

- 10/13/2023

REVISED

SHEET 13 OF 58 SHEETS STA.



LEGEND:

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →

 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

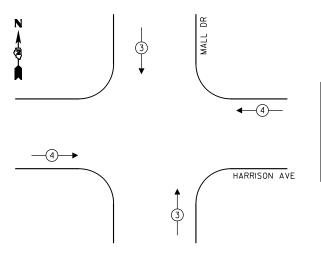
 Description

 PEDESTRIAN

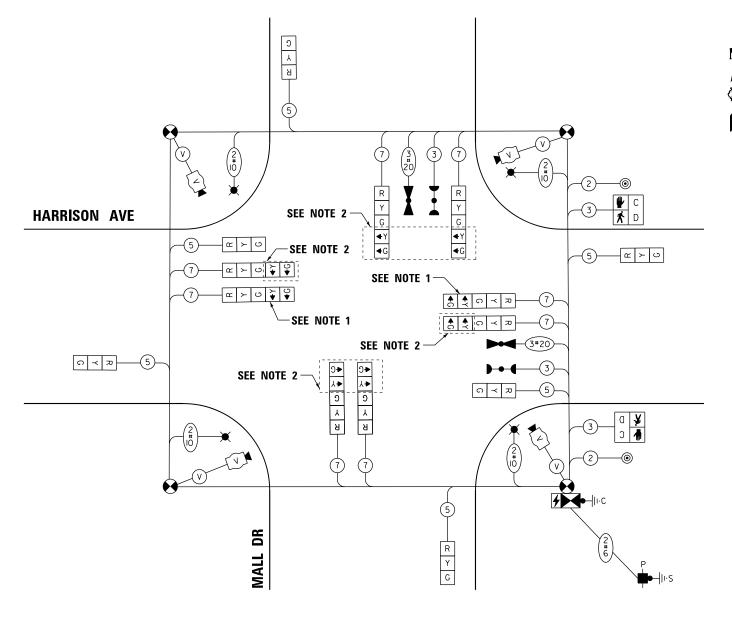
 PHASE

 PHAS
- ◆ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

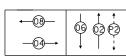


TEMPORARY E	MERGENCY VEHIC	LE PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	—



CABLE PLAN (NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

ТҮРЕ	1	2	3	4	5	6	7	8
MINIMUM GREEN		8		15		8		15
PASSAGE		4		7		4		7
MAXIMUM I		60		60		60		60
YELLOW CHANGE		4		4		4		4
RED CLEARANCE		2		2		2		2
RECALL MODE		OFF		MIN		OFF		MIN
WALK		7						
FLASH DW		43						
ACTUATED CYCLE LENGTH = 120								

NOTES:

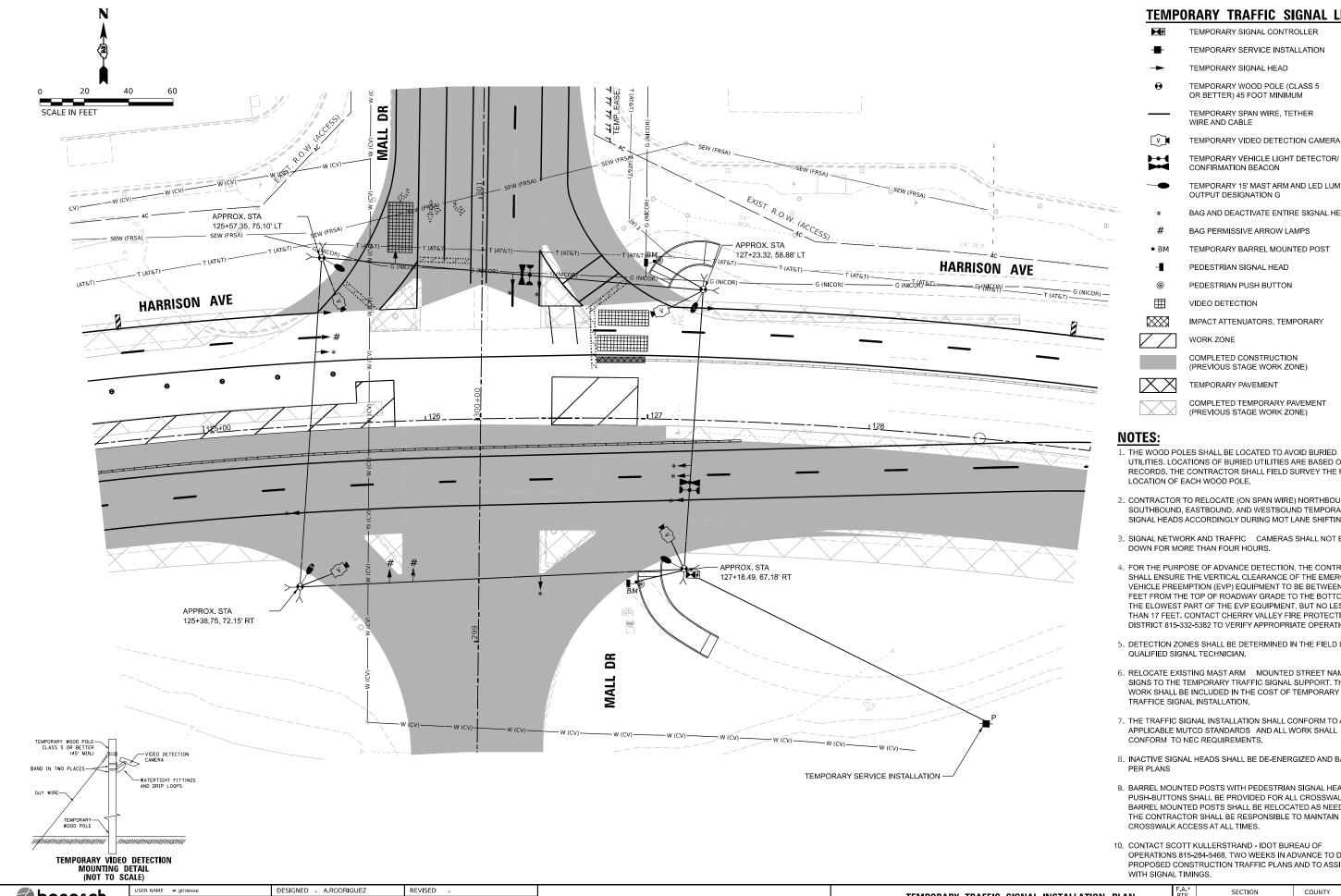
- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

benesch
Alfred Benesch & Company
35 W. Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10800.00

USER NAME = gthlesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

TEMPORARY C	ABLE PL	LAN, TE	MPO	RARY F	PHASE DE	SIGNATION	DIAGRAM,	F
AND TEMPO								
STAG	E 1A-4	– HAKI	KISUI	N AVER	NUE AND	MALL DRIV	E [т
SCALE: NTS	SHEET	14 OF	58	SHEETS	STA.	TO ST/	۸.	-

F.A.* RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE
*	(5)RS & (5&5HB)R	WINNEBAGO	1279	589	
ΓS-14		CONTRACT	NO. 64F	7 71	
	ILLINOIS	FED. AID PROJECT			



TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY SIGNAL CONTROLLER

TEMPORARY SERVICE INSTALLATION

TEMPORARY SIGNAL HEAD

TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM

> TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE

TEMPORARY VIDEO DETECTION CAMERA

CONFIRMATION BEACON

TEMPORARY 15' MAST ARM AND LED LUMINAIRE OUTPUT DESIGNATION G

BAG AND DEACTIVATE ENTIRE SIGNAL HEAD

TEMPORARY BARREL MOUNTED POST

PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH BUTTON

IMPACT ATTENUATORS, TEMPORARY

TEMPORARY PAVEMENT

COMPLETED TEMPORARY PAVEMENT (PREVIOUS STAGE WORK ZONE)

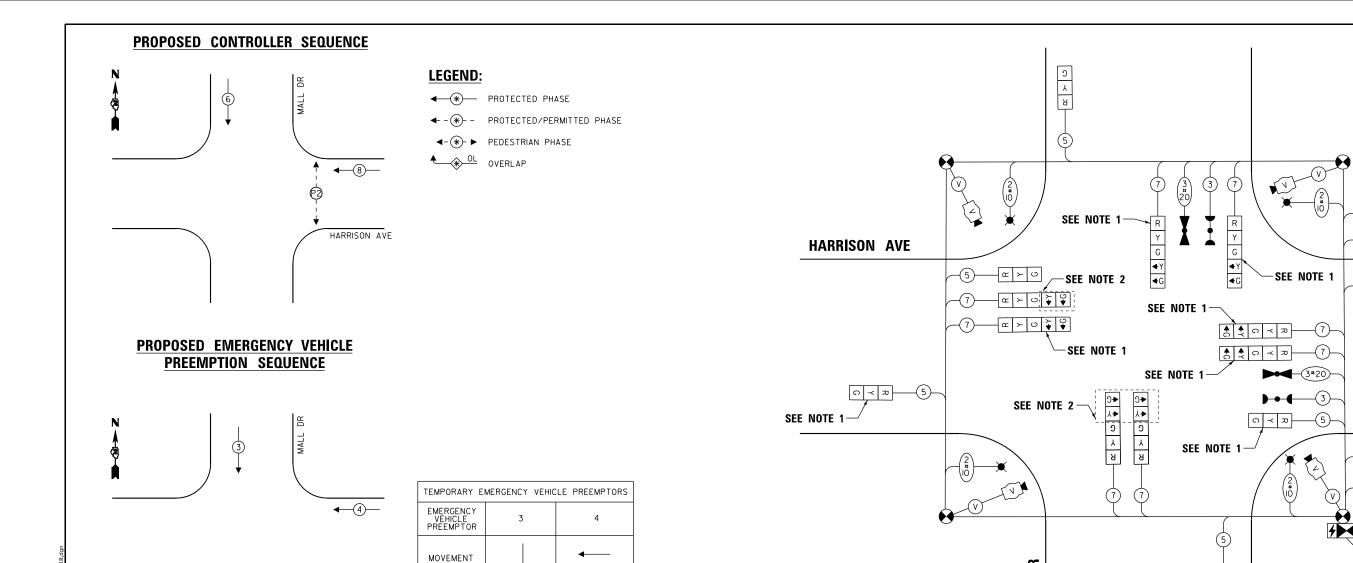
- THE WOOD POLES SHALL BE LOCATED TO AVOID BURIED UTILITIES. LOCATIONS OF BURIED UTILITIES ARE BASED ON RECORDS. THE CONTRACTOR SHALL FIELD SURVEY THE FINAL
- 2. CONTRACTOR TO RELOCATE (ON SPAN WIRE) NORTHBOUND, SOUTHBOUND, EASTBOUND, AND WESTBOUND TEMPORARY SIGNAL HEADS ACCORDINGLY DURING MOT LANE SHIFTING.
- 3. SIGNAL NETWORK AND TRAFFIC CAMERAS SHALL NOT BE DOWN FOR MORE THAN FOUR HOURS.
- 4. FOR THE PURPOSE OF ADVANCE DETECTION, THE CONTRACTOR SHALL ENSURE THE VERTICAL CLEARANCE OF THE EMERGENCY VEHICLE PREEMPTION (EVP) EQUIPMENT TO BE BETWEEN 17-18 FEET FROM THE TOP OF ROADWAY GRADE TO THE BOTTOM OF THE ELOWEST PART OF THE EVP EQUIPMENT, BUT NO LESS THAN 17 FEET. CONTACT CHERRY VALLEY FIRE PROTECTION DISTRICT 815-332-5382 TO VERIFY APPROPRIATE OPERATIONS.
- 5. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
- 6. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFICE SIGNAL INSTALLATION.
- 7. THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS AND ALL WORK SHALL CONFORM TO NEC REQUIREMENTS.
- 8. INACTIVE SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED
- 9. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CROSSWALK ACCESS AT ALL TIMES.
- 10. CONTACT SCOTT KULLERSTRAND IDOT BUREAU OF OPERATIONS 815-284-5468, TWO WEEKS IN ADVANCE TO DISCUSS PROPOSED CONSTRUCTION TRAFFIC PLANS AND TO ASSIST

benesch

DRAWN - A.RODRIGUEZ REVISED CHECKED - G.THIESSE REVISED PLOT DATE = 10/12/2023 - 10/13/2023 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 1B , HARRISON AVENUE AND MALL DRIVE SHEET 15 OF 58 SHEETS STA.

SECTION (5)RS & (5&5HB)RC WINNEBAGO 1279 590 CONTRACT NO. 64R71

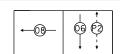


CABLE PLAN
(NOT TO SCALE)

SEE NOTE 1

DR

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

ТҮРЕ	1	2	3	4	5	6	7	8
MINIMUM GREEN						8		15
PASSAGE						4		7
MAXIMUM I						60		60
YELLOW CHANGE						4		4
RED CLEARANCE						2		2
RECALL MODE						OFF		MIN
WALK		7						
FLASH DW		43						
ACTUATED CYCLE LENGTH = 120							•	

NOTES:

- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SB SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

benesch
Alfred Benesch & Company
35 W. Wacker Drive, Suite 3300
Chicago, Illinois 60601
312-565-0450 Job No. 10800.00

USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

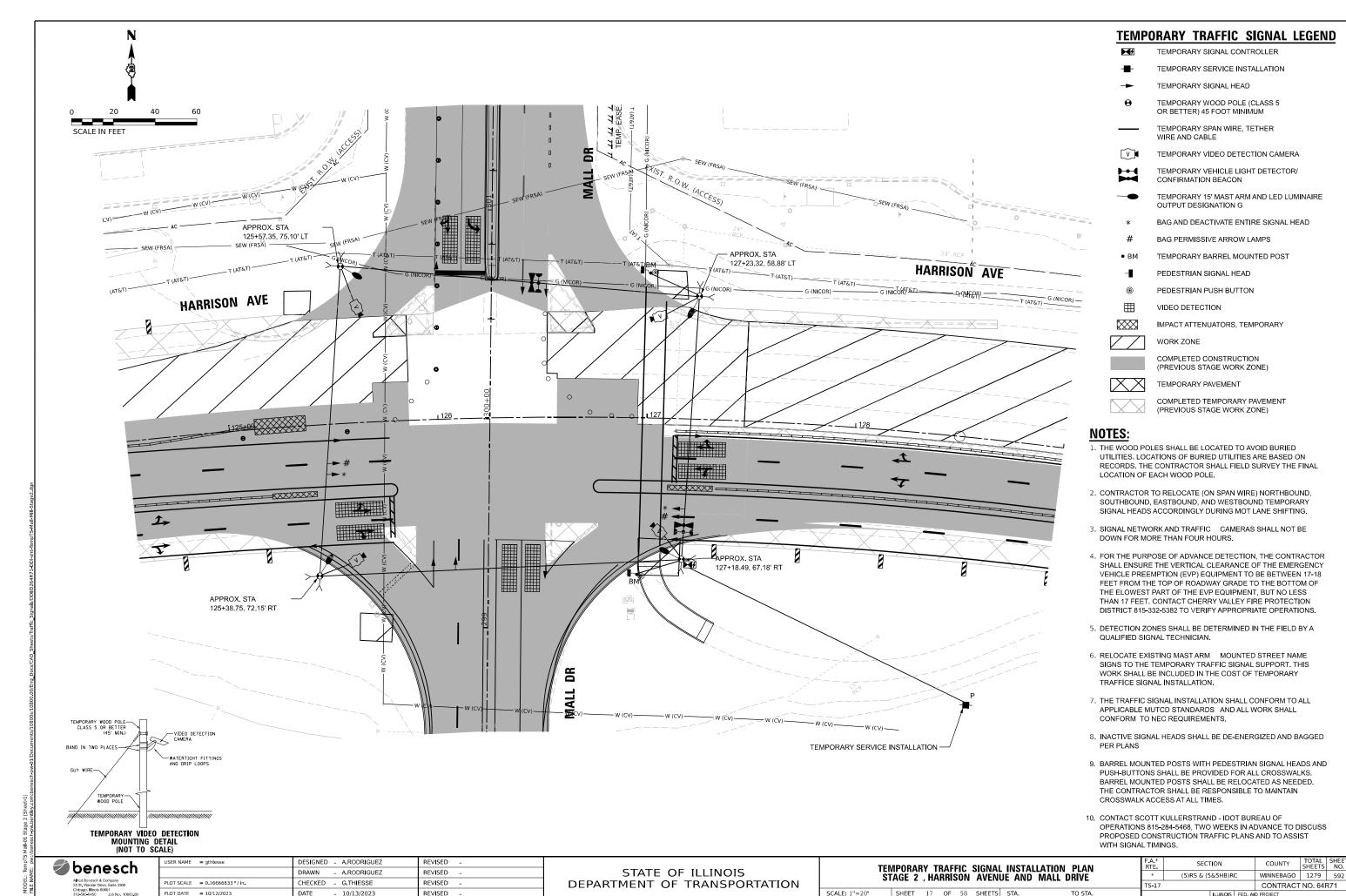
HARRISON AVE

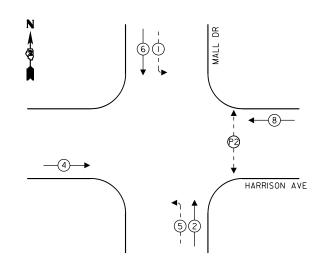
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

AND TEMPO	RARY	EME	RGEN	ICY	VEHIC	E PREE	ESIGNATION DIAGRAM, MPTION SEQUENCE , MALL DRIVE	-
SCALE: NTS	SHEET	16	OF	58	SHEETS	STA.	TO STA.	ŀ

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*	(5)RS & (5&5HB)RC	WINNEBAGO	1279	591	
TS-16		CONTRACT	NO. 64	₹71	
	ILLINOIS FED.	ILLINOIS FED. AID PROJECT			

__ <u>~</u> ∨ ∪





LEGEND:

- **←**PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →
 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

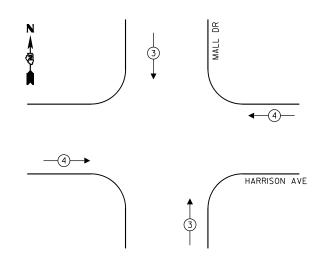
 Description

 PEDESTRIAN

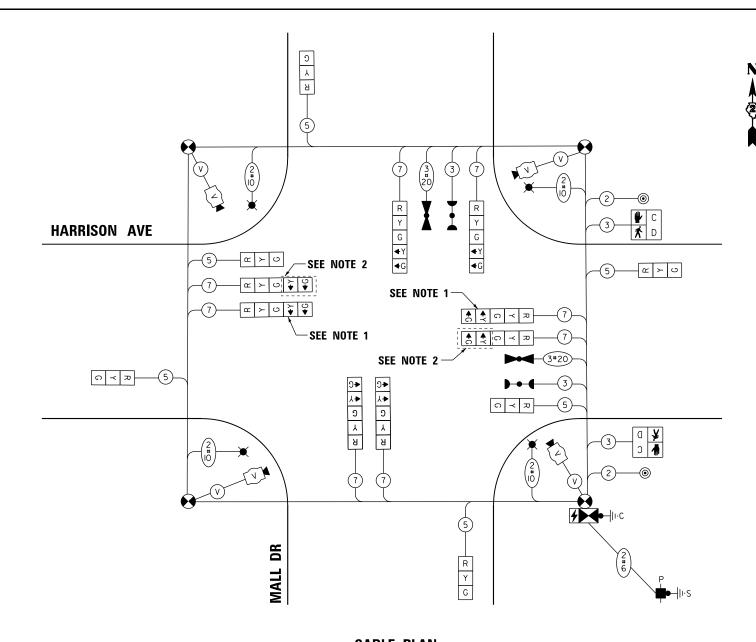
 PHASE

 P
- ◆ OL OVERLAP





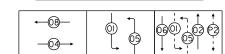
TEMPORARY EI	MERGENCY VEHI	ICLE PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	←



CABLE PLAN

(NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

ТҮРЕ	1	2	4	5	6	8
MINIMUM GREEN	3	8	15	3	8	15
PASSAGE	3	4	7	3	4	7
MAXIMUM I	15	50	60	15	50	60
YELLOW CHANGE	3.5	4	4	3.5	4	4
RED CLEARANCE	0	2	2	0	2	2
RECALL MODE	OFF	OFF	MIN	OFF	OFF	MIN
WALK		7				
FLASH DW		43				
ACTUATED CYCLE LENGTH = 120				-		

NOTES:

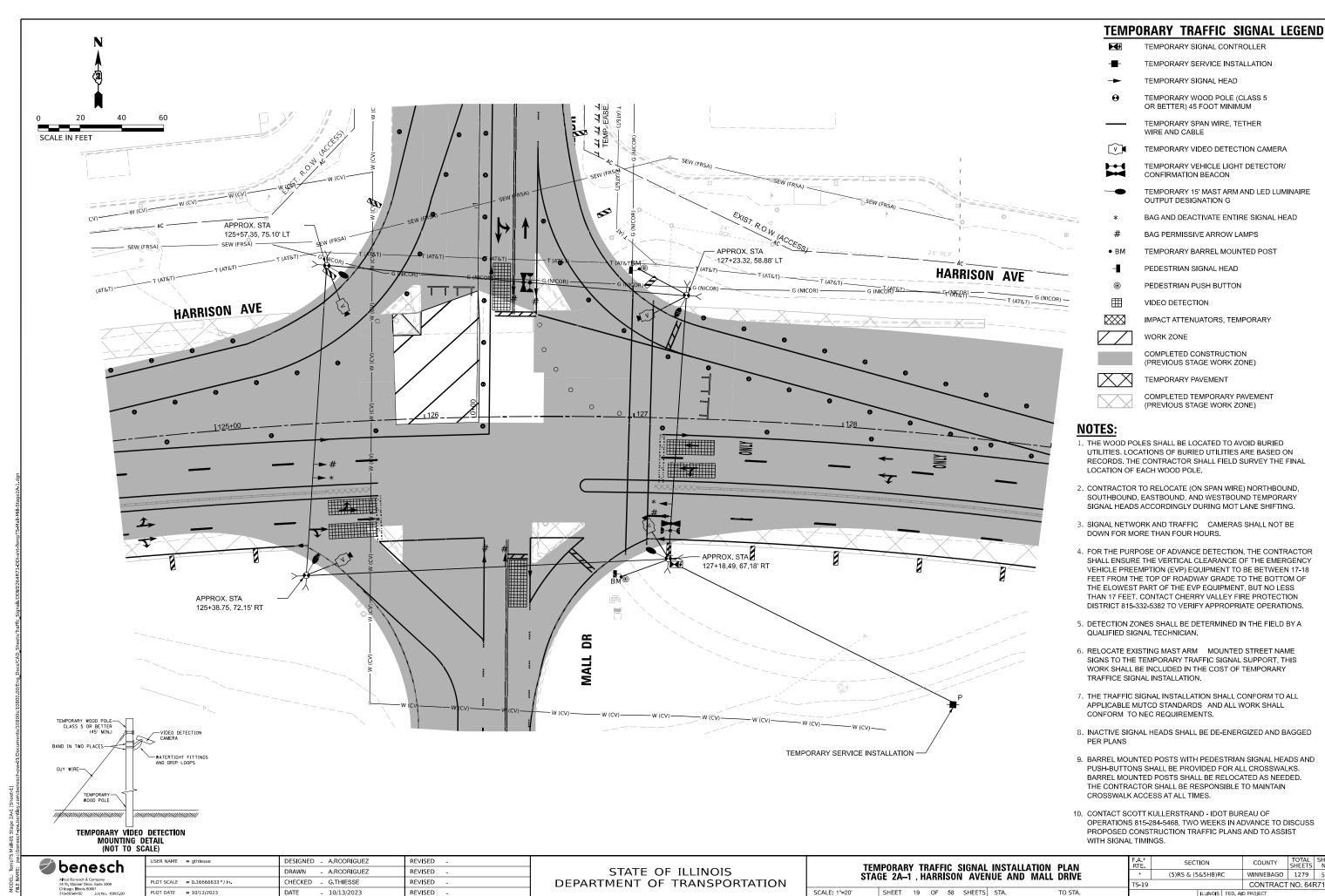
- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

1	benesch	
	Alfred Benesch & Company 35 W. Wacker Drive, Suite 3300	
	Chicago, Illinois 60601	
	312-565-0450 Job No. 10809.00	

USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

AND TEMPO	RARY I	EME	RGEN	CY	VEHICLI	PREE	DESIGNATION DIAGRAM, Emption sequence , Mall drive
SCALE: NTS	SHEET	18	OF	58	SHEETS	STA.	TO STA.

F.A.* RTE	SECTION		COUNTY	TOTAL SHEETS	SHE
*	(5)RS & (5&5HB)RC	١	WINNEBAGO	1279	59
TS-18			CONTRACT	NO. 64F	7 71
	ILLINOIS FED.	AID P	PROJECT		



SECTION

(5)RS & (5&5HB)RC

WINNEBAGO 1279 594

CONTRACT NO. 64R71

TEMPORARY SIGNAL CONTROLLER

TEMPORARY SPAN WIRE, TETHER

TEMPORARY VIDEO DETECTION CAMERA TEMPORARY VEHICLE LIGHT DETECTOR/

TEMPORARY BARREL MOUNTED POST

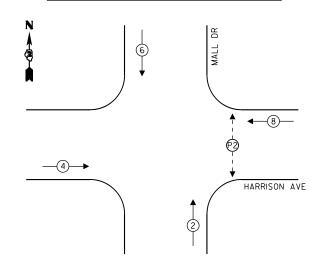
WORK ZONE

COMPLETED CONSTRUCTION (PREVIOUS STAGE WORK ZONE)

(PREVIOUS STAGE WORK ZONE)

TEMPORARY 15' MAST ARM AND LED LUMINAIRE

TEMPORARY SIGNAL HEAD



LEGEND:

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →
 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

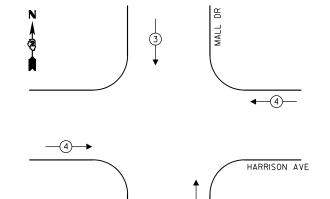
 Output

 Description

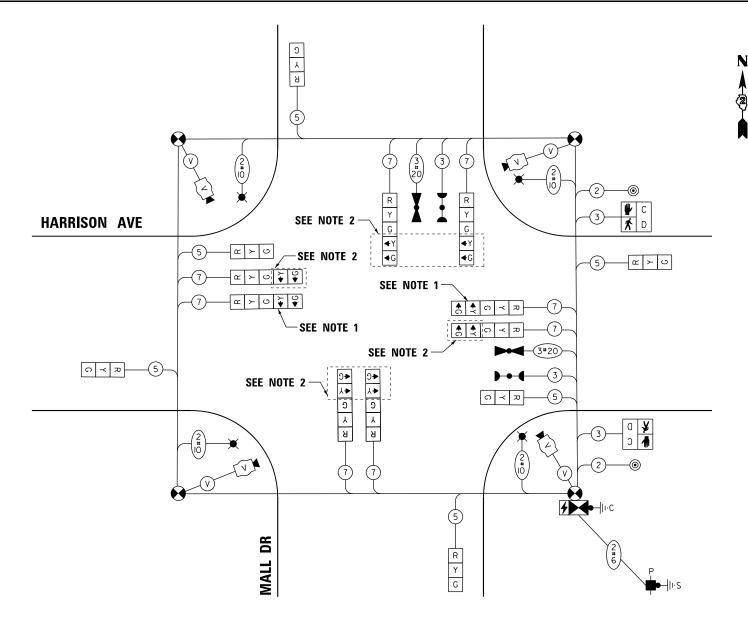
 PHASE

 P
- ◆ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

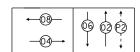


TEMPORARY E	MERGENCY VEH	ICLE PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	—



CABLE PLAN (NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

TYPE	1	2	4	5	6	8
ITIE	1		4]	8	٥
MINIMUM GREEN		8	15		8	15
PASSAGE		4	7		4	7
MAXIMUM I		60	60		60	60
YELLOW CHANGE		4	4		4	4
RED CLEARANCE		2	2		2	2
RECALL MODE		OFF	MIN		OFF	MIN
WALK		7				
FLASH DW		43				
ACTUATED CYCLE LENGTH = 120						

NOTES:

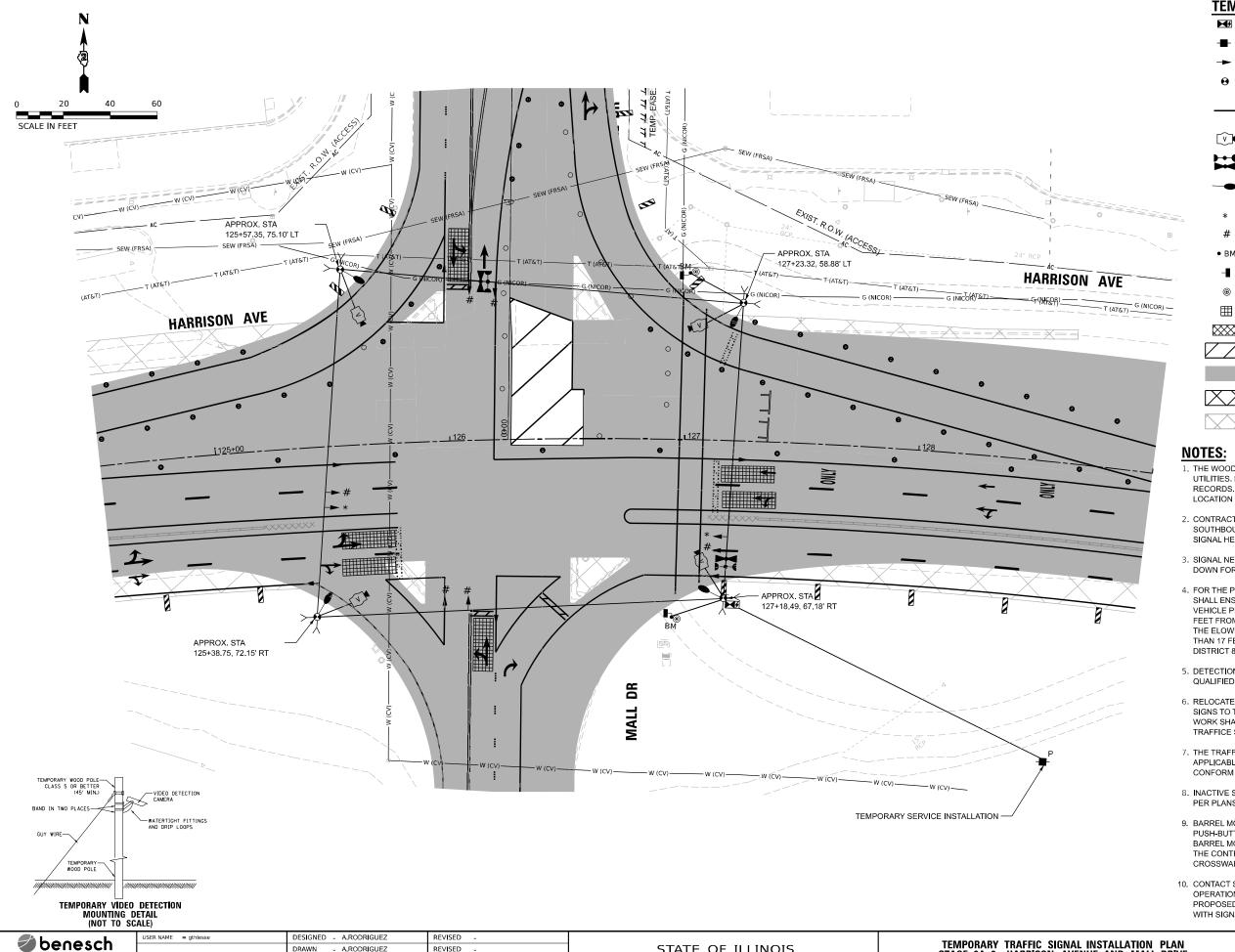
- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

benesch	:h
Alfred Benesch & Company	
35 W. Wacker Drive, Suite 3300	
Chicago, Illinois 60601	
312-565-0450 Job No. 10809.00	00.0080

USER NAME = gthlesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,	F.A RT
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE,	*
STAGE 2A-1 - HARRISON AVENUE AND MALL DRIVE	TS-
SCALE: NTC SHEET 20 OF 50 SHEETS STA TO STA	

F.A.* RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*	(5)RS & (5&5HB)RC	WINNEBAGO	1279	595	
TS-20		CONTRACT	NO. 64	₹71	
	ILLINOIS FED. AI	ILLINOIS FED. AID PROJECT			



TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY SIGNAL CONTROLLER

TEMPORARY SERVICE INSTALLATION

TEMPORARY SIGNAL HEAD

TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM

TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE

TEMPORARY VIDEO DETECTION CAMERA

TEMPORARY VEHICLE LIGHT DETECTOR/ CONFIRMATION BEACON

TEMPORARY 15' MAST ARM AND LED LUMINAIRE OUTPUT DESIGNATION G

BAG AND DEACTIVATE ENTIRE SIGNAL HEAD

BAG PERMISSIVE ARROW LAMPS

TEMPORARY BARREL MOUNTED POST

PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH BUTTON

VIDEO DETECTION

IMPACT ATTENUATORS, TEMPORARY

WORK ZONE

COMPLETED CONSTRUCTION (PREVIOUS STAGE WORK ZONE)

TEMPORARY PAVEMENT

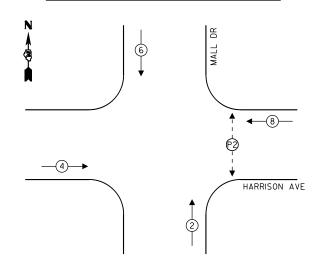
COMPLETED TEMPORARY PAVEMENT (PREVIOUS STAGE WORK ZONE)

- 1. THE WOOD POLES SHALL BE LOCATED TO AVOID BURIED UTILITIES. LOCATIONS OF BURIED UTILITIES ARE BASED ON RECORDS. THE CONTRACTOR SHALL FIELD SURVEY THE FINAL LOCATION OF EACH WOOD POLE.
- 2. CONTRACTOR TO RELOCATE (ON SPAN WIRE) NORTHBOUND, SOUTHBOUND, EASTBOUND, AND WESTBOUND TEMPORARY SIGNAL HEADS ACCORDINGLY DURING MOT LANE SHIFTING.
- 3. SIGNAL NETWORK AND TRAFFIC CAMERAS SHALL NOT BE DOWN FOR MORE THAN FOUR HOURS.
- 4. FOR THE PURPOSE OF ADVANCE DETECTION, THE CONTRACTOR SHALL ENSURE THE VERTICAL CLEARANCE OF THE EMERGENCY VEHICLE PREEMPTION (EVP) EQUIPMENT TO BE BETWEEN 17-18 FEET FROM THE TOP OF ROADWAY GRADE TO THE BOTTOM OF THE ELOWEST PART OF THE EVP EQUIPMENT, BUT NO LESS THAN 17 FEET. CONTACT CHERRY VALLEY FIRE PROTECTION DISTRICT 815-332-5382 TO VERIFY APPROPRIATE OPERATIONS.
- 5. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
- 6. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFICE SIGNAL INSTALLATION.
- 7. THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS AND ALL WORK SHALL CONFORM TO NEC REQUIREMENTS.
- 8. INACTIVE SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED PER PLANS
- 9. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CROSSWALK ACCESS AT ALL TIMES.
- 10. CONTACT SCOTT KULLERSTRAND IDOT BUREAU OF OPERATIONS 815-284-5468, TWO WEEKS IN ADVANCE TO DISCUSS PROPOSED CONSTRUCTION TRAFFIC PLANS AND TO ASSIST WITH SIGNAL TIMINGS.

- A.RODRIGUEZ CHECKED - G.THIESSE REVISED PLOT DATE = 10/12/2023 REVISED - 10/13/2023

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 2A-2 , HARRISON AVENUE AND MALL DRIVE SHEET 21 OF 58 SHEETS STA.

SECTION (5)RS & (5&5HB)RC WINNEBAGO 1279 596 CONTRACT NO. 64R71



LEGEND:

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →

 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

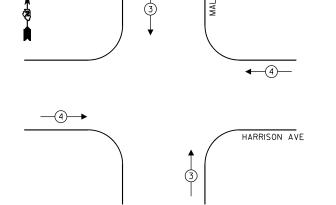
 Output

 Description

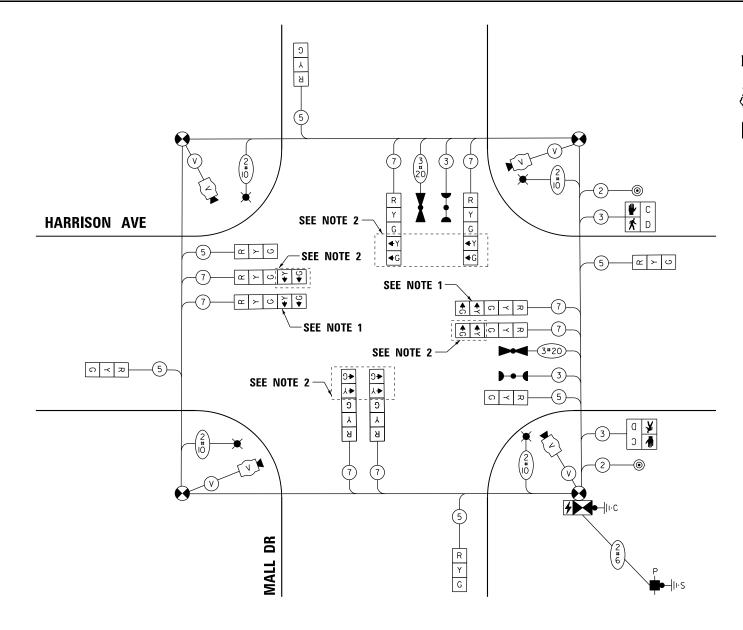
 PHASE

 PHASE
- ◆ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



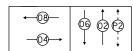
TEMPORARY E	MERGENCY	VEHI	CLE	PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3			4
MOVEMENT	<u></u>			←



CABLE PLAN

(NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

	0000	LUILD	111111111111111111111111111111111111111	OLGO	itbo _i		
ТҮРЕ	1	2		4	5	6	8
MINIMUM GREEN		8		15		8	15
PASSAGE		4		7		4	7
MAXIMUM I		60		60		60	60
YELLOW CHANGE		4		4		4	4
RED CLEARANCE		2		2		2	2
RECALL MODE		OFF		MIN		OFF	MIN
WALK		7					
FLASH DW		43					
ACTUATED CYCLE LENGTH = 120							

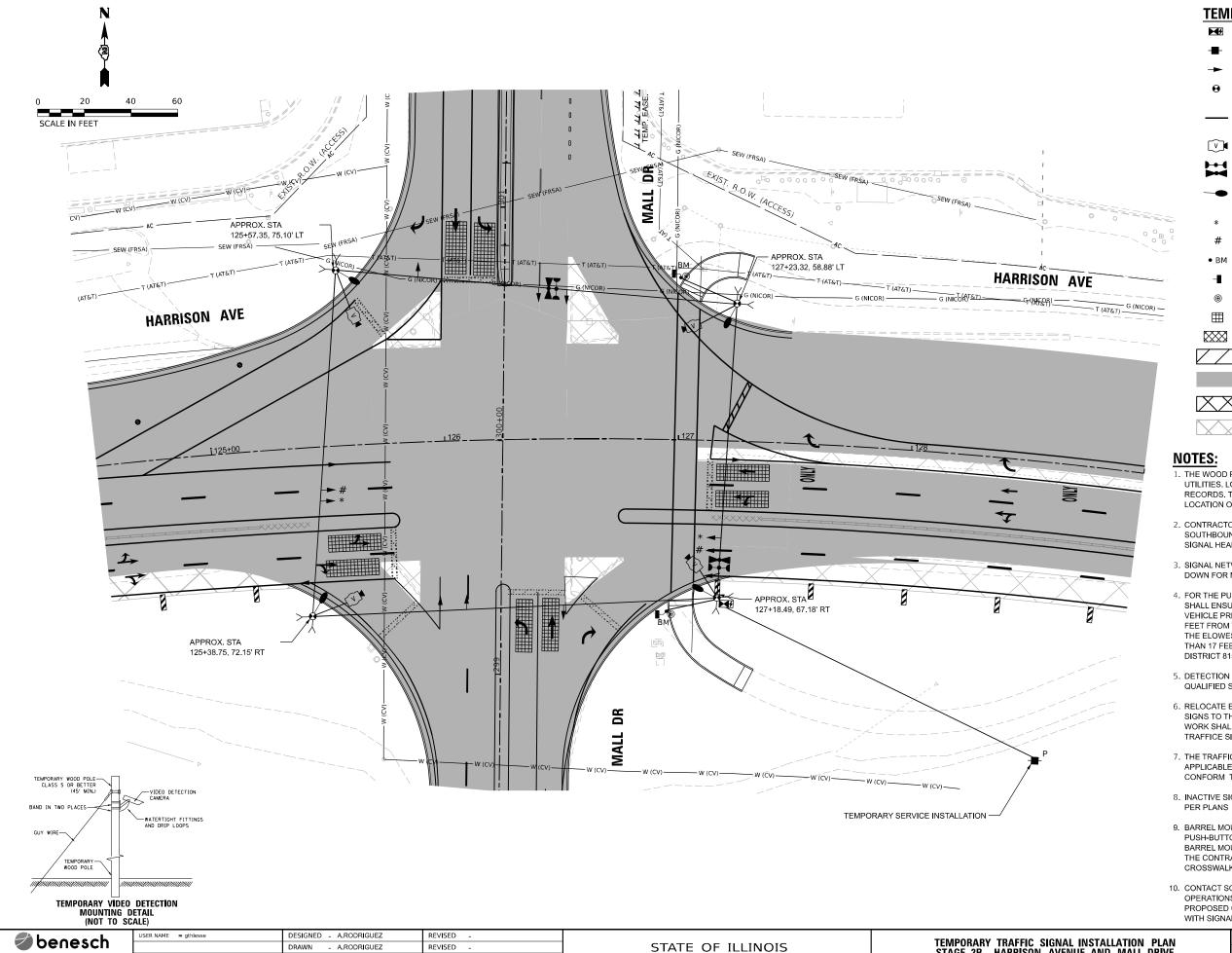
NOTES:

- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

2	benesch
	Alfred Benesch & Company 35 W. Wacker Drive, Suite 3300 Chicago, Illinois 60601 312-565-0450 Job No. 10800.00

USER NAME = gthiesse	DESIGNED - A.RODRIGUEZ	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
PLOT SCALE = 0.167 '/in.	CHECKED - G.THIESSE	REVISED
PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED

F.A.* RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
*	(5)RS & (5&5HB)RC	WINNEBAGO	1279	597	
TS-22			CONTRACT	NO. 64F	₹71
ILLINOIS FED. AI			D PROJECT		



CHECKED - G.THIESSE

- 10/13/2023

PLOT DATE = 10/12/2023

REVISED

REVISED

DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL LEGEND

TEMPORARY SIGNAL CONTROLLER

TEMPORARY SERVICE INSTALLATION

TEMPORARY SIGNAL HEAD

TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM

TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE

TEMPORARY VIDEO DETECTION CAMERA

CONFIRMATION BEACON

TEMPORARY 15' MAST ARM AND LED LUMINAIRE OUTPUT DESIGNATION G

TEMPORARY BARREL MOUNTED POST

TEMPORARY VEHICLE LIGHT DETECTOR/

BAG AND DEACTIVATE ENTIRE SIGNAL HEAD

BAG PERMISSIVE ARROW LAMPS

PEDESTRIAN SIGNAL HEAD

VIDEO DETECTION

IMPACT ATTENUATORS, TEMPORARY

PEDESTRIAN PUSH BUTTON

COMPLETED CONSTRUCTION (PREVIOUS STAGE WORK ZONE)

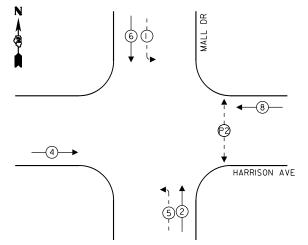
TEMPORARY PAVEMENT



COMPLETED TEMPORARY PAVEMENT (PREVIOUS STAGE WORK ZONE)

- 1. THE WOOD POLES SHALL BE LOCATED TO AVOID BURIED UTILITIES. LOCATIONS OF BURIED UTILITIES ARE BASED ON RECORDS. THE CONTRACTOR SHALL FIELD SURVEY THE FINAL LOCATION OF EACH WOOD POLE.
- 2. CONTRACTOR TO RELOCATE (ON SPAN WIRE) NORTHBOUND, SOUTHBOUND, EASTBOUND, AND WESTBOUND TEMPORARY SIGNAL HEADS ACCORDINGLY DURING MOT LANE SHIFTING.
- 3. SIGNAL NETWORK AND TRAFFIC CAMERAS SHALL NOT BE DOWN FOR MORE THAN FOUR HOURS.
- 4. FOR THE PURPOSE OF ADVANCE DETECTION, THE CONTRACTOR SHALL ENSURE THE VERTICAL CLEARANCE OF THE EMERGENCY VEHICLE PREEMPTION (EVP) EQUIPMENT TO BE BETWEEN 17-18 FEET FROM THE TOP OF ROADWAY GRADE TO THE BOTTOM OF THE ELOWEST PART OF THE EVP EQUIPMENT, BUT NO LESS THAN 17 FEET. CONTACT CHERRY VALLEY FIRE PROTECTION DISTRICT 815-332-5382 TO VERIFY APPROPRIATE OPERATIONS.
- 5. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A QUALIFIED SIGNAL TECHNICIAN.
- 6. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFICE SIGNAL INSTALLATION.
- 7. THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS AND ALL WORK SHALL CONFORM TO NEC REQUIREMENTS.
- 8. INACTIVE SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED
- 9. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CROSSWALK ACCESS AT ALL TIMES.
- 10. CONTACT SCOTT KULLERSTRAND IDOT BUREAU OF OPERATIONS 815-284-5468, TWO WEEKS IN ADVANCE TO DISCUSS PROPOSED CONSTRUCTION TRAFFIC PLANS AND TO ASSIST WITH SIGNAL TIMINGS.

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 2B , HARRISON AVENUE AND MALL DRIVE SHEET 23 OF 58 SHEETS STA.



LEGEND:

- **←**(*)— PROTECTED PHASE
- ← -(*)- PROTECTED/PERMITTED PHASE
- √
 →

 PEDESTRIAN PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

 Output

 Description

 PEDESTRIAN

 PHASE

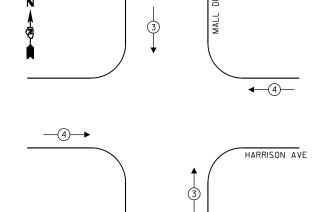
 Output

 Description

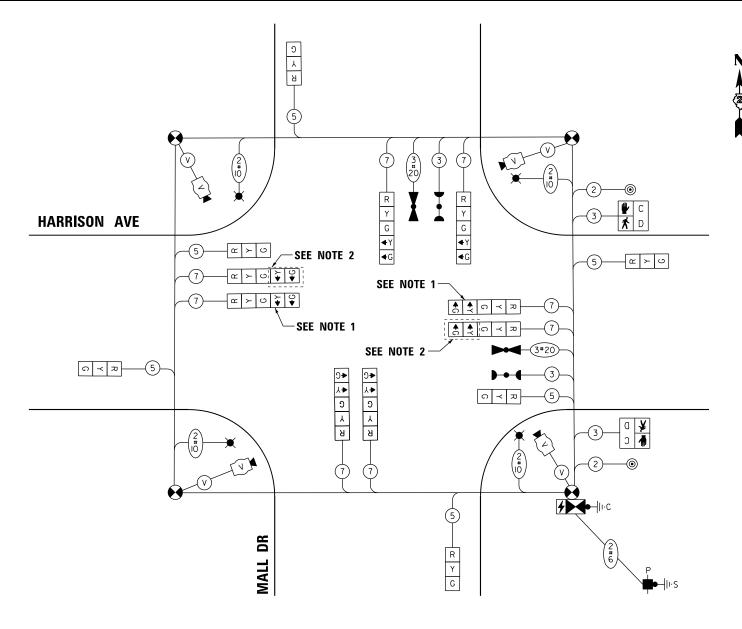
 PHASE

 PHASE
- ◆ OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



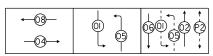
TEMPORARY E	MERGENCY VE	EHICLE PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	—



CABLE PLAN

(NOT TO SCALE)

PHASE SEQUENCE CHART



SUGGESTED TIMINGS (SECONDS)

TYPE	1	2	4	5	6	8
MINIMUM GREEN	3	8	15	3	8	15
PASSAGE	3	4	7	3	4	7
MAXIMUM I	15	50	60	15	50	60
YELLOW CHANGE	3.5	4	4	3.5	4	4
RED CLEARANCE	0	2	2	0	2	2
RECALL MODE	OFF	OFF	MIN	OFF	OFF	MIN
WALK		7				
FLASH DW		43				
ACTUATED CYCLE LENGTH = 120						

NOTES:

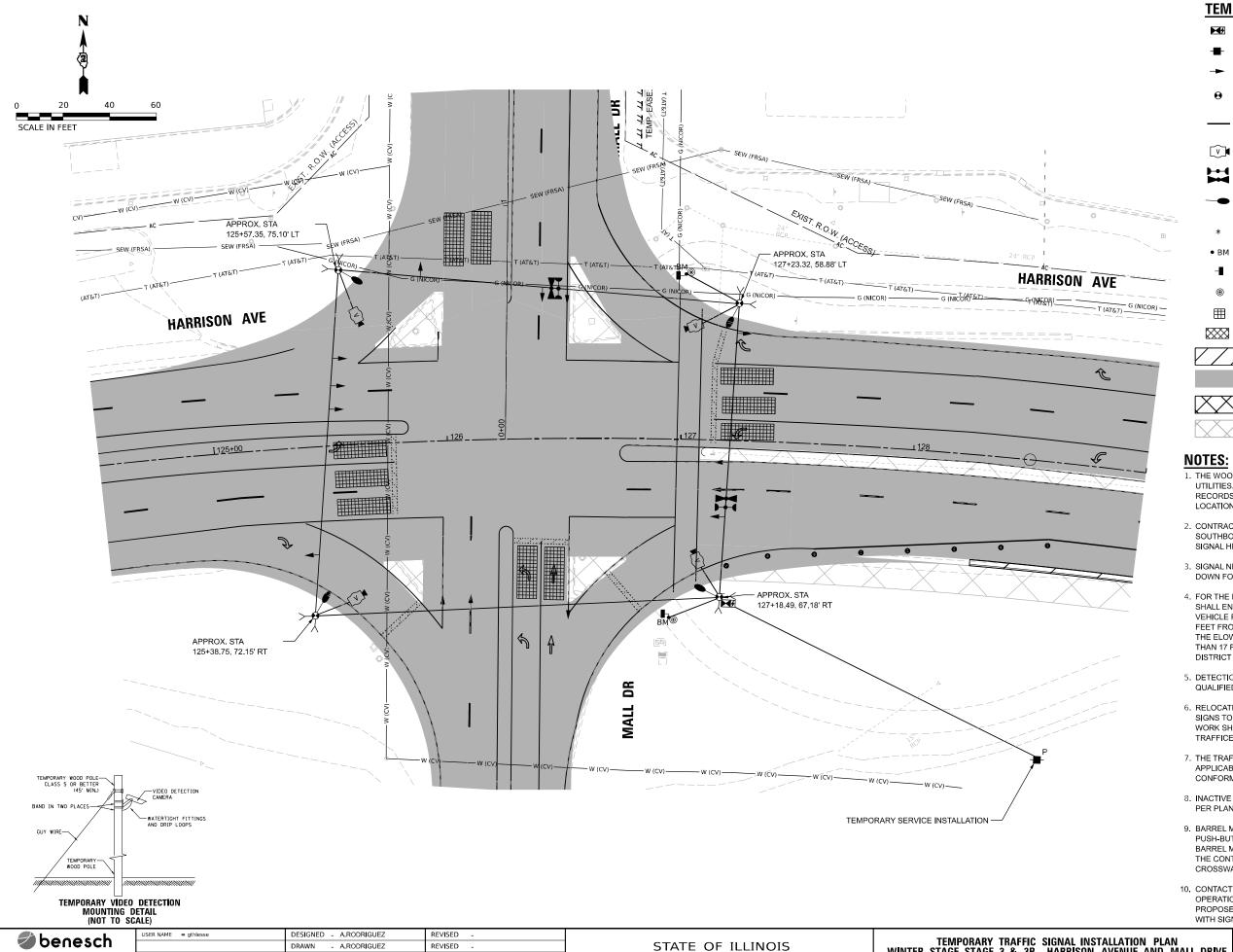
- I. BAG TRAFFIC SIGNAL HEAD AND DE-ENERGIZE
- 2. BAG TRAFFIC PERMISSIVE ARROW LAMPS FOR SIGNAL HEADS
- 3. CONTRACTOR TO VERIFY AND OPTIMIZE SIGNAL TIMINGS PER FIELD CONDITIONS.

benes	ch
Alfred Benesch & Company	
35 W. Wacker Drive, Suite 33	00
Chicago, Illinois 60601	
312-565-0450 Job No.	10800.00

PLOT DATE = 10/12/2023	DATE - 10/13/2023	REVISED
PLOT SCALE = 0.167 / in.	CHECKED - G.THIESSE	REVISED
	DRAWN - A.RODRIGUEZ	REVISED
USER NAME = gthlesse	DESIGNED - A.RODRIGUEZ	REVISED

						ESIGNATION DIAGRAM,	F
						MPTION SEQUENCE,	
5	IAGE ZB	– HA	KKI201	I AVEN	UE AND	MALL DRIVE	Т
SCALE: NTS	SHEET	24	OF 58	SHEETS	STA.	TO STA.	Н

F.A.* RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
*	(5)RS & (5&5HB)Re	WINNEBAGO	1279	599	
TS-24			CONTRACT	NO. 64F	٦71
	ILLINOIS	FED. AI	D PROJECT		



TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY SIGNAL CONTROLLER
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY SIGNAL HEAD
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MINIMUM
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY VIDEO DETECTION CAMERA
- TEMPORARY VEHICLE LIGHT DETECTOR/ CONFIRMATION BEACON
- TEMPORARY 15' MAST ARM AND LED LUMINAIRE OUTPUT DESIGNATION G
- BAG AND DEACTIVATE ENTIRE SIGNAL HEAD
- TEMPORARY BARREL MOUNTED POST
- PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN PUSH BUTTON
- VIDEO DETECTION
- IMPACT ATTENUATORS, TEMPORARY
- - WORK ZONE
 - COMPLETED CONSTRUCTION (PREVIOUS STAGE WORK ZONE)
- - TEMPORARY PAVEMENT
- - COMPLETED TEMPORARY PAVEMENT (PREVIOUS STAGE WORK ZONE)
- 1. THE WOOD POLES SHALL BE LOCATED TO AVOID BURIED UTILITIES. LOCATIONS OF BURIED UTILITIES ARE BASED ON RECORDS. THE CONTRACTOR SHALL FIELD SURVEY THE FINAL LOCATION OF EACH WOOD POLE.
- 2. CONTRACTOR TO RELOCATE (ON SPAN WIRE) NORTHBOUND, SOUTHBOUND, EASTBOUND, AND WESTBOUND TEMPORARY SIGNAL HEADS ACCORDINGLY DURING MOT LANE SHIFTING.
- 3. SIGNAL NETWORK AND TRAFFIC CAMERAS SHALL NOT BE DOWN FOR MORE THAN FOUR HOURS.
- 4. FOR THE PURPOSE OF ADVANCE DETECTION, THE CONTRACTOR SHALL ENSURE THE VERTICAL CLEARANCE OF THE EMERGENCY VEHICLE PREEMPTION (EVP) EQUIPMENT TO BE BETWEEN 17-18 FEET FROM THE TOP OF ROADWAY GRADE TO THE BOTTOM OF THE ELOWEST PART OF THE EVP EQUIPMENT, BUT NO LESS THAN 17 FEET. CONTACT CHERRY VALLEY FIRE PROTECTION DISTRICT 815-332-5382 TO VERIFY APPROPRIATE OPERATIONS.
- 5. DETECTION ZONES SHALL BE DETERMINED IN THE FIELD BY A
- 6. RELOCATE EXISTING MAST ARM MOUNTED STREET NAME SIGNS TO THE TEMPORARY TRAFFIC SIGNAL SUPPORT. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFICE SIGNAL INSTALLATION.
- 7. THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS AND ALL WORK SHALL CONFORM TO NEC REQUIREMENTS.
- 8. INACTIVE SIGNAL HEADS SHALL BE DE-ENERGIZED AND BAGGED PER PLANS
- 9. BARREL MOUNTED POSTS WITH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTONS SHALL BE PROVIDED FOR ALL CROSSWALKS. BARREL MOUNTED POSTS SHALL BE RELOCATED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CROSSWALK ACCESS AT ALL TIMES.
- 10. CONTACT SCOTT KULLERSTRAND IDOT BUREAU OF OPERATIONS 815-284-5468, TWO WEEKS IN ADVANCE TO DISCUSS PROPOSED CONSTRUCTION TRAFFIC PLANS AND TO ASSIST WITH SIGNAL TIMINGS.

CHECKED - G.THIESSE REVISED PLOT DATE = 10/12/2023 DATE - 10/13/2023 REVISED

DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WINTER STAGE, STAGE 3 & 3B , HARRISON AVENUE AND MALL DRIVE SHEET 25 OF 58 SHEETS STA.

SECTION (5)RS & (5&5HB)RC WINNEBAGO 1279 600 CONTRACT NO. 64R71