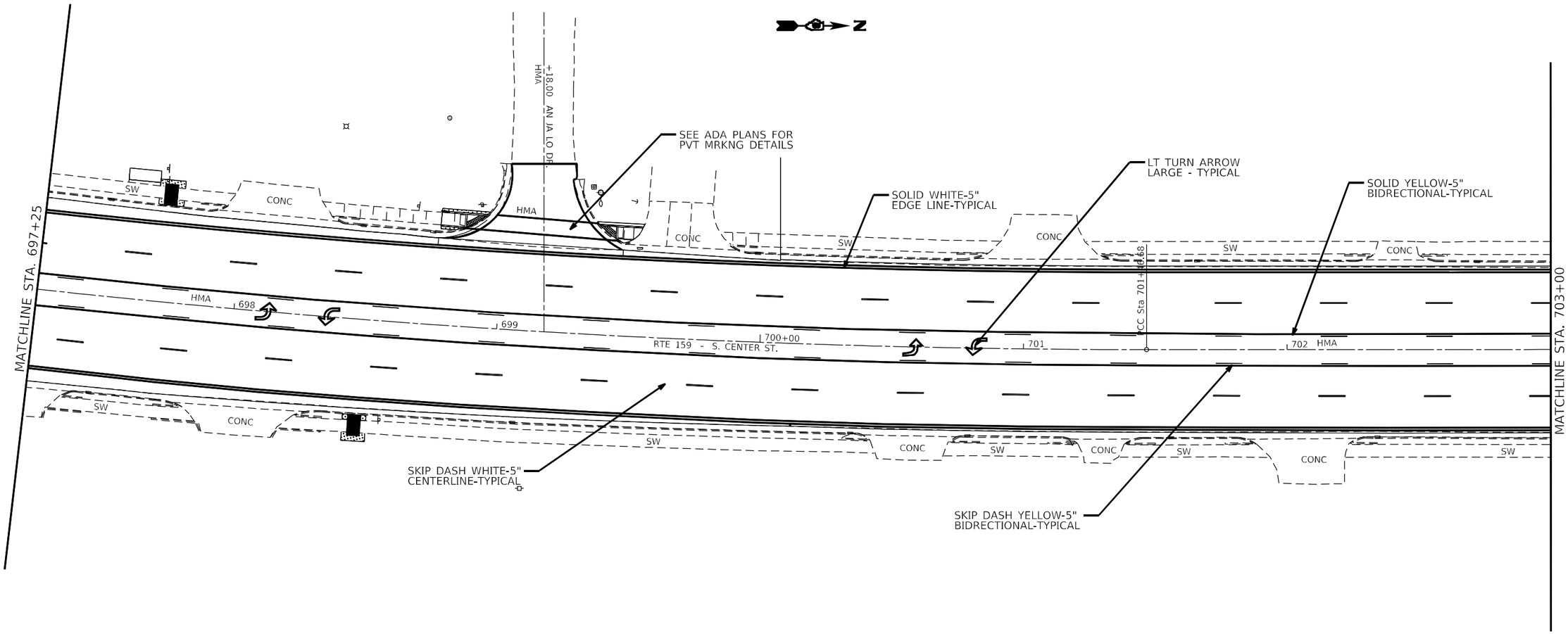

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	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: | SHEET 21 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	201
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

MODEL: $MODELNAME$
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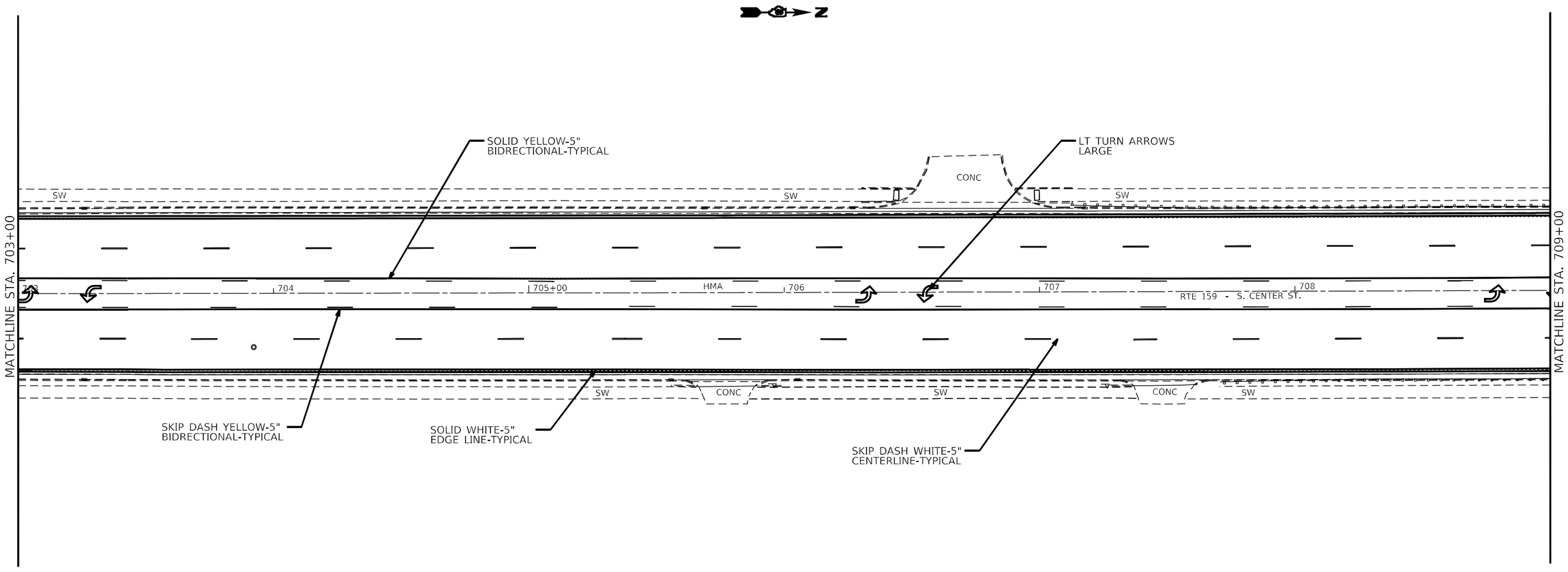

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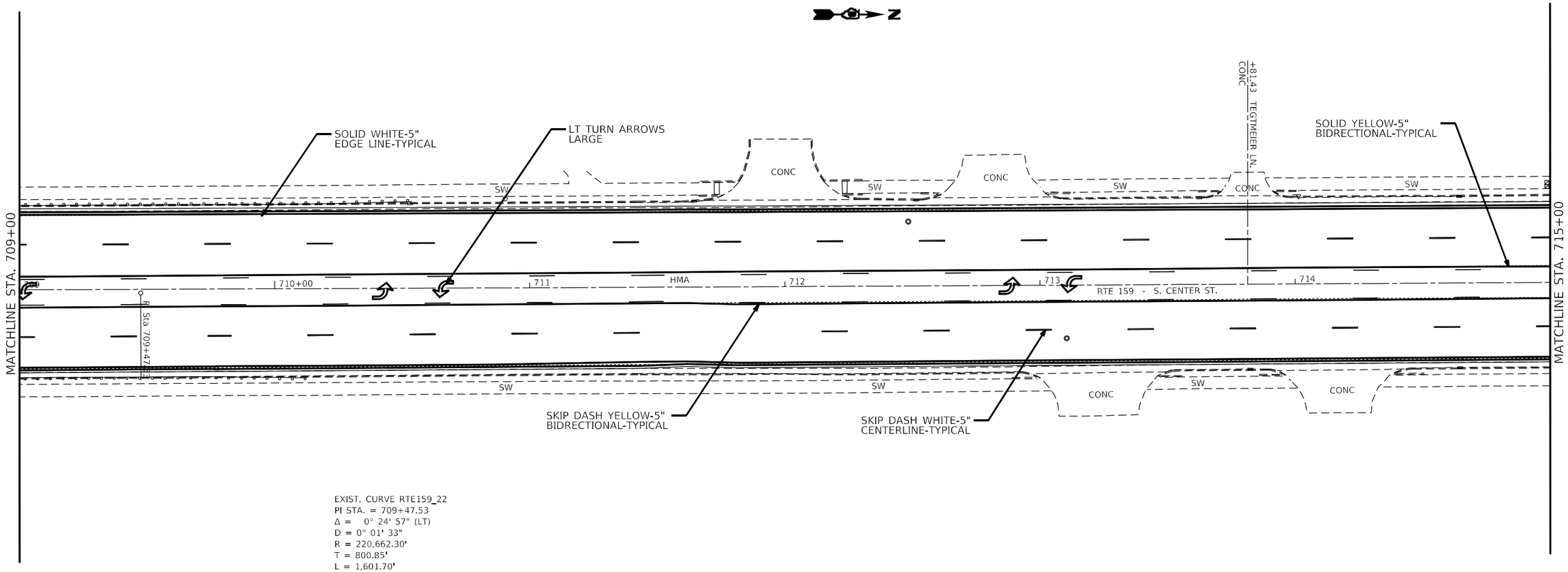
USER NAME = edison.zontoryi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 22 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	202
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



EXIST. CURVE RTE159_22
PI STA. = 709+47.53
Δ = 0° 24' 57" (LT)
D = 0° 01' 33"
R = 220,662.30'
T = 800.85'
L = 1,601.70'
E = 1.45'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 701+46.68
P.T. STA. = 717+48.38

MODEL: $MODELNAME$
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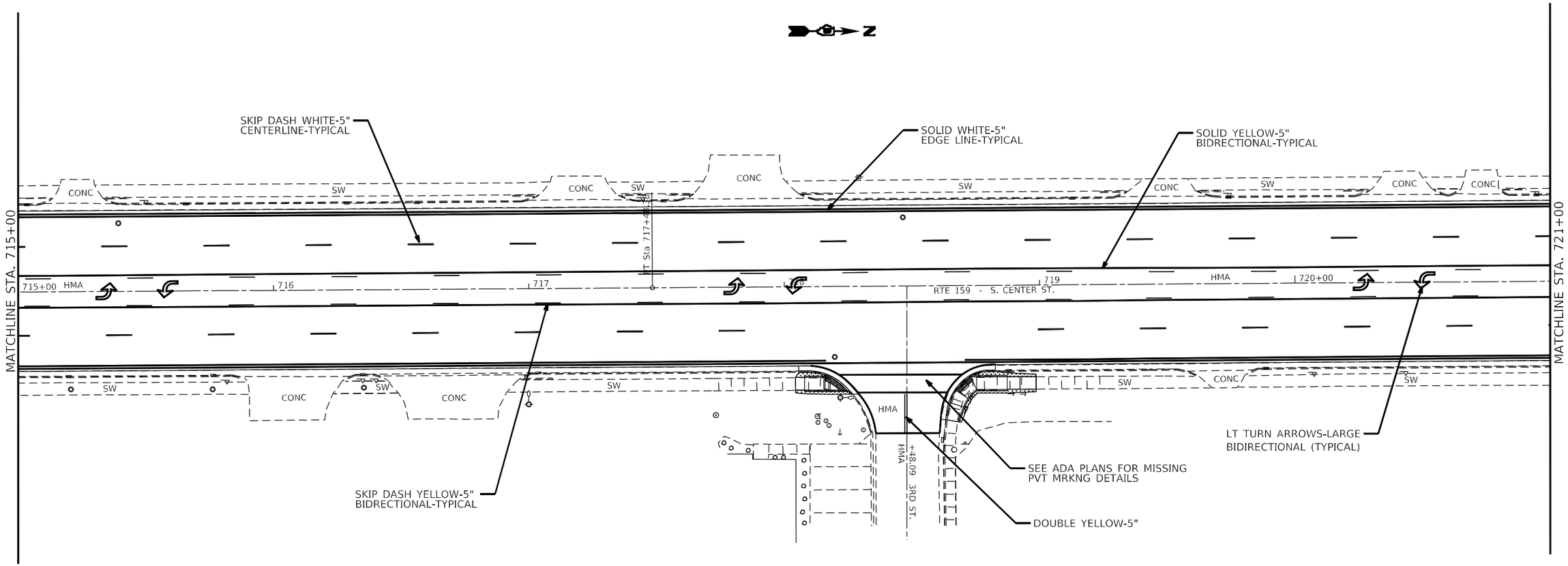
USER NAME = edison.zohforyi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 23 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	203
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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USER NAME = edison.zonforyi	DESIGNED -	REVISED -	
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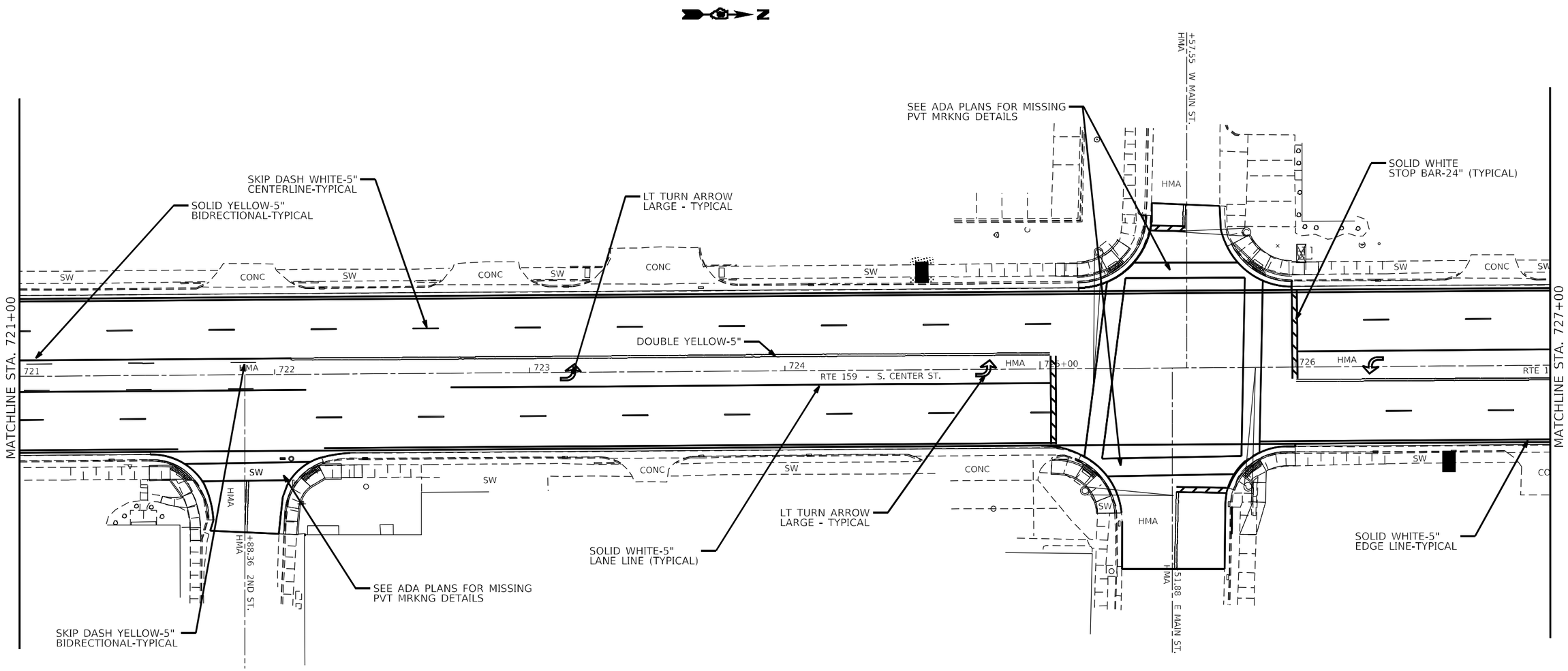
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 24 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	204
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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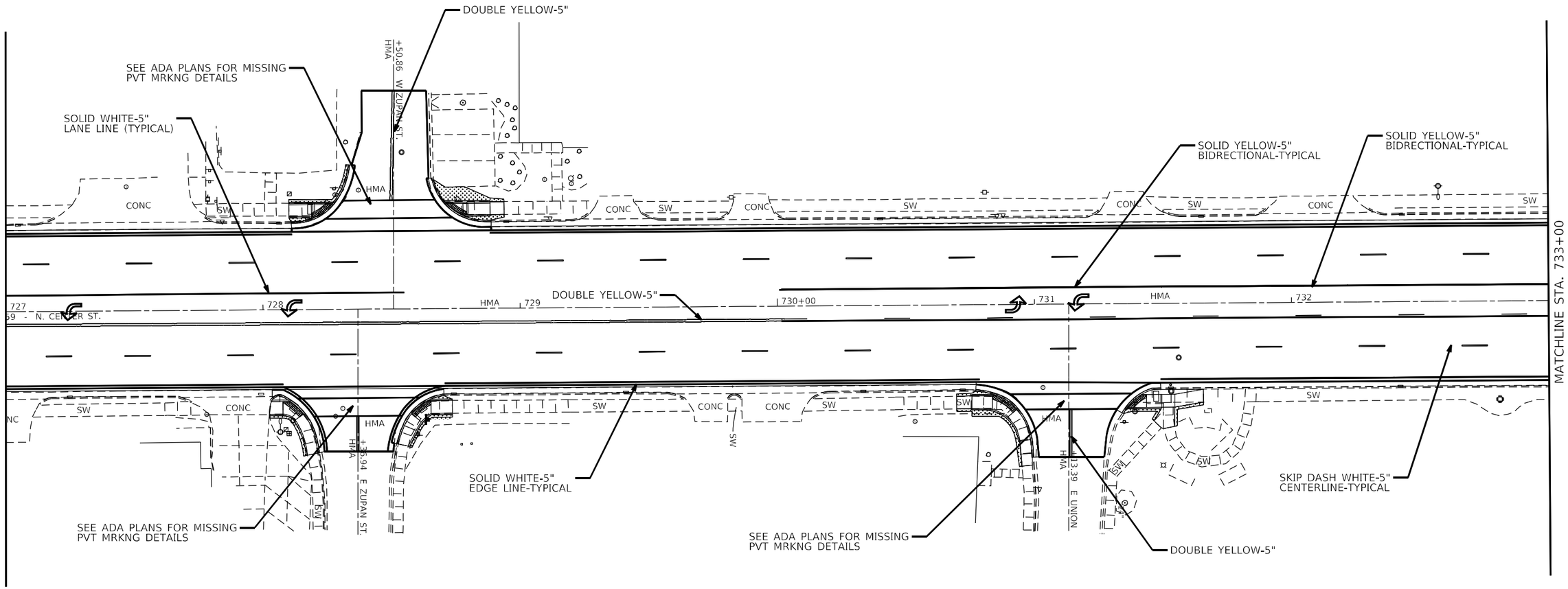
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 25 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	205
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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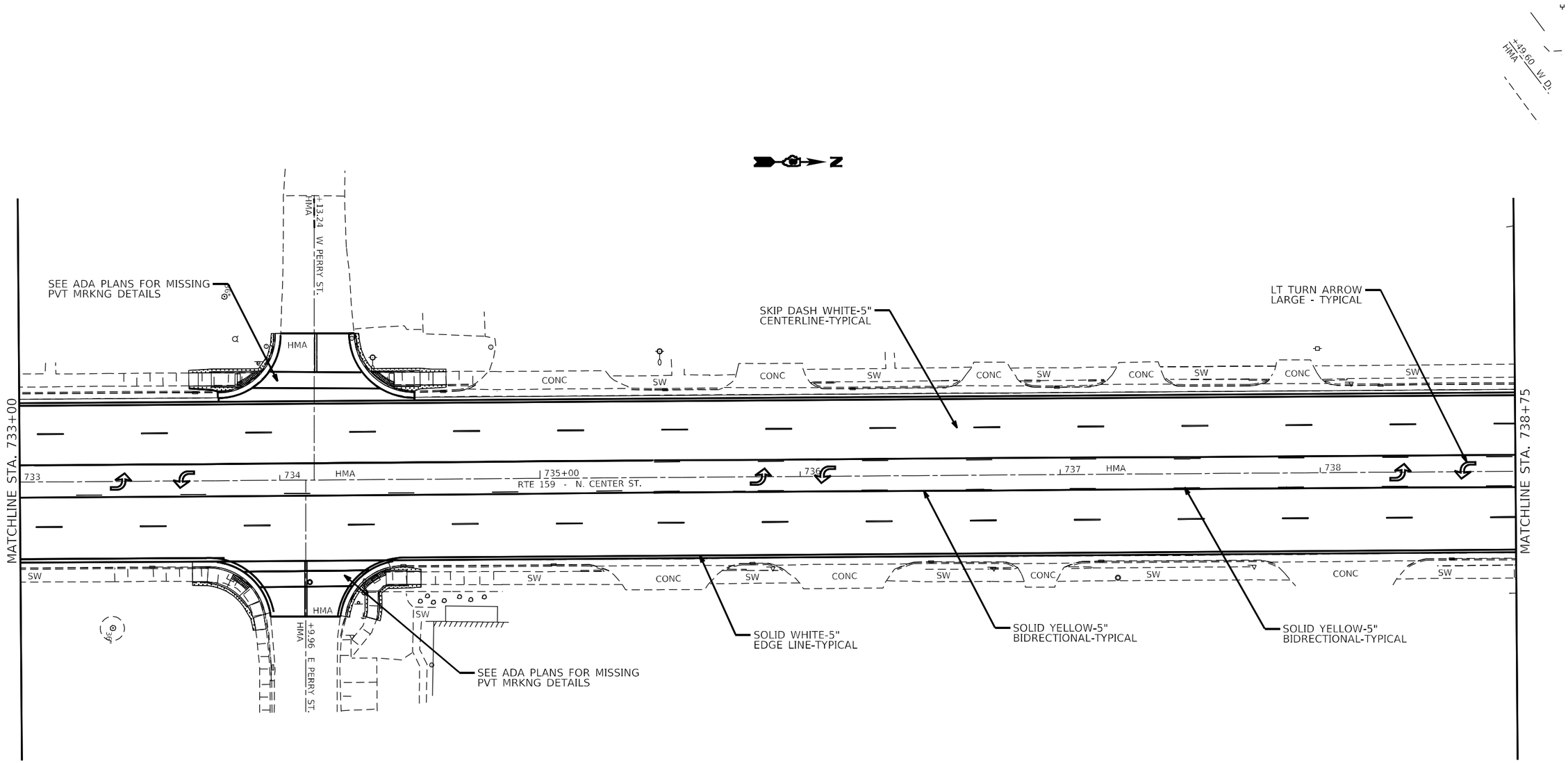
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 26 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	206
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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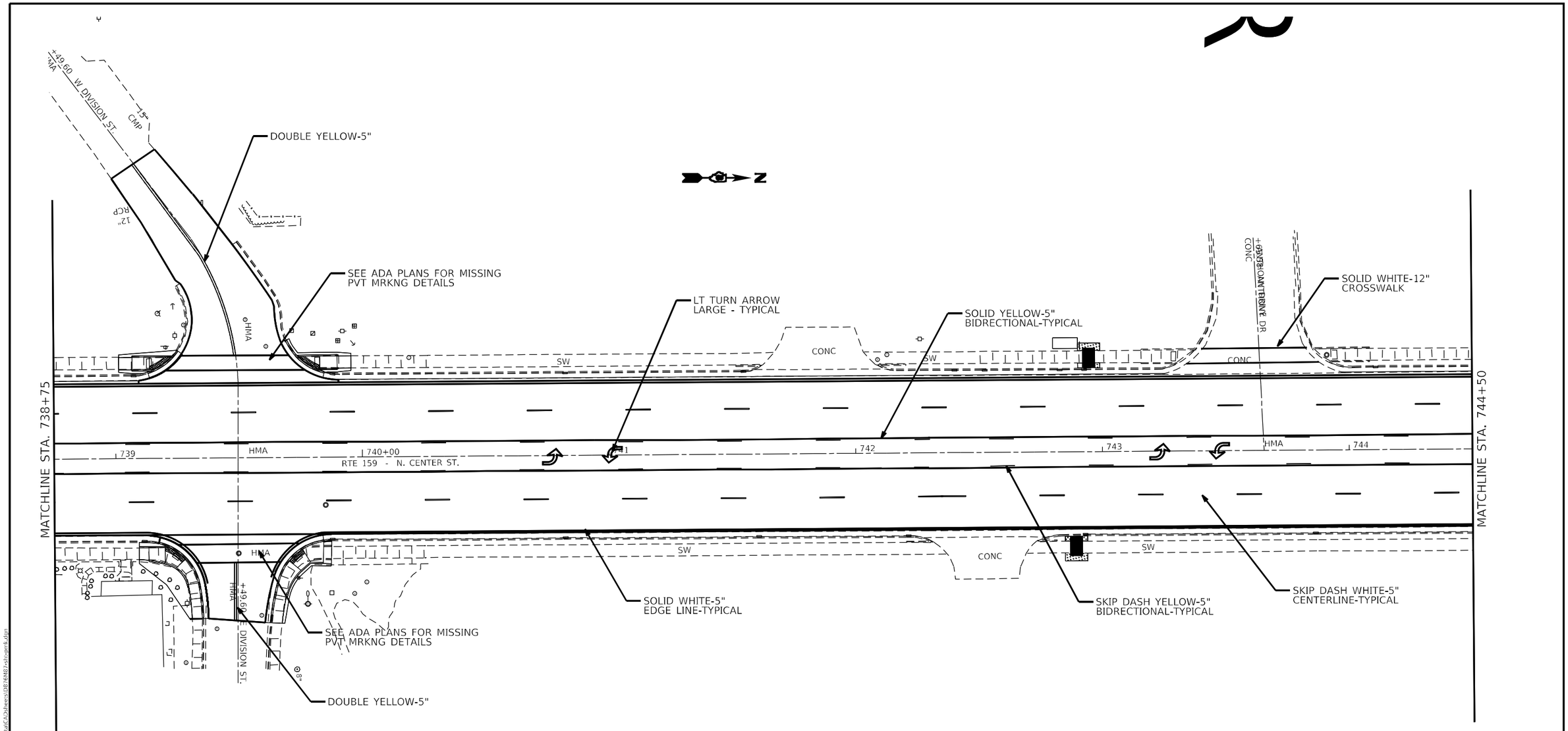
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 27 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	207
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 28 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	208
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

MODEL: SMODELNAMES
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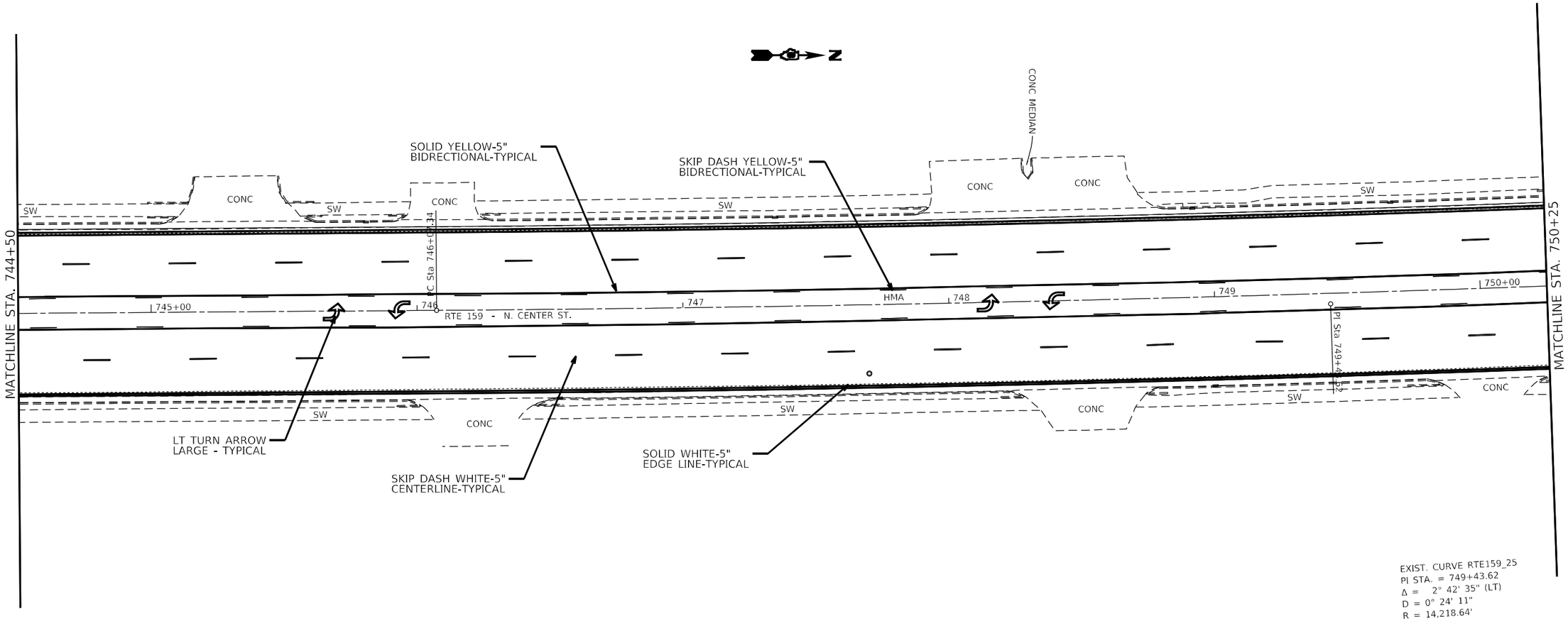

EXIST. CURVE RTE159_25
PI STA. = 749+43.62
Δ = 2° 42' 35" (LT)
D = 0° 24' 11"
R = 14,218.64'
T = 336.28'
L = 672.43'
E = 3.98'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 746+07.34
P.T. STA. = 752+79.78

MODEL: $MODELNAMES
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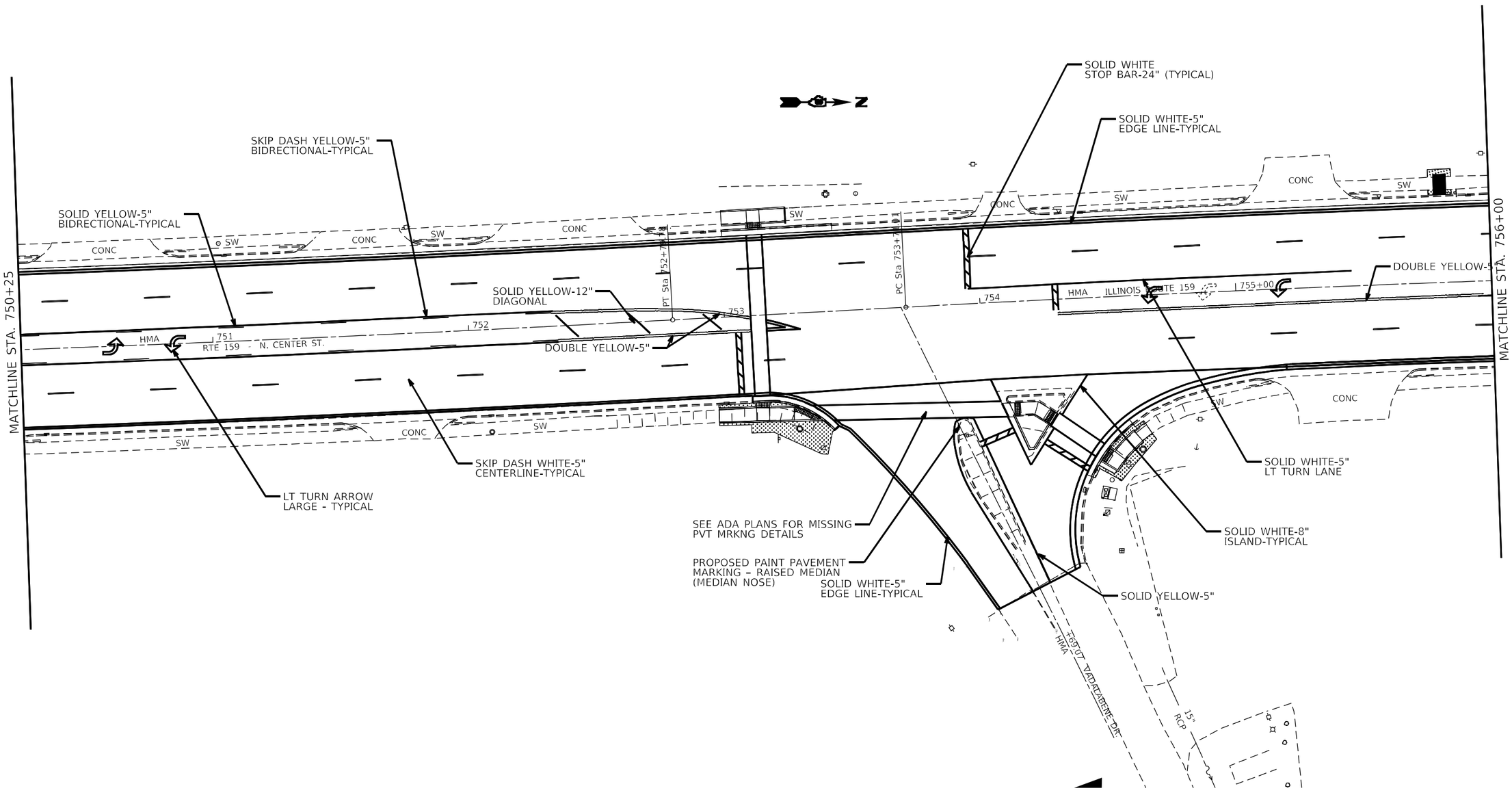
USER NAME = edison.zohforyi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 29 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	209
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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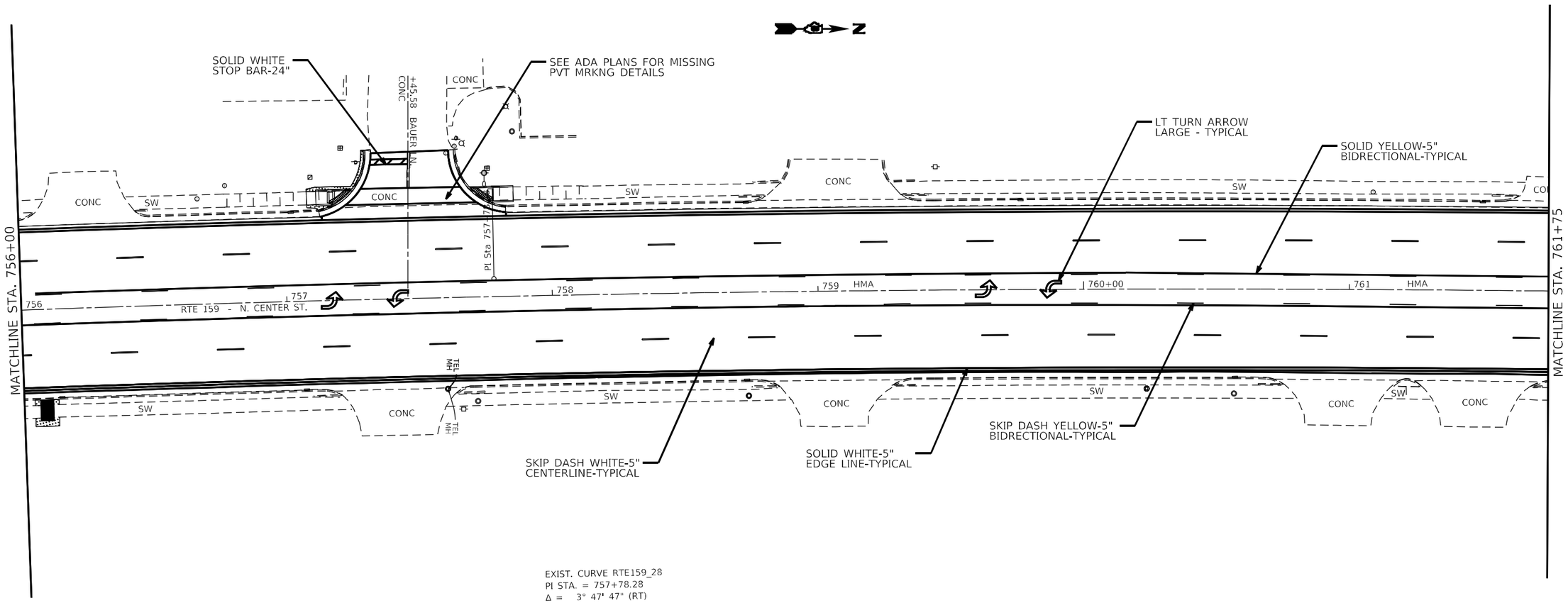
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 30 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	210
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE RTE159_28
PI STA. = 757+78.28
Δ = 3° 47' 47" (RT)
D = 0° 27' 58"
R = 12,288.69'
T = 407.27'
L = 814.24'
E = 6.75'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 753+71.01
P.T. STA. = 761+85.25

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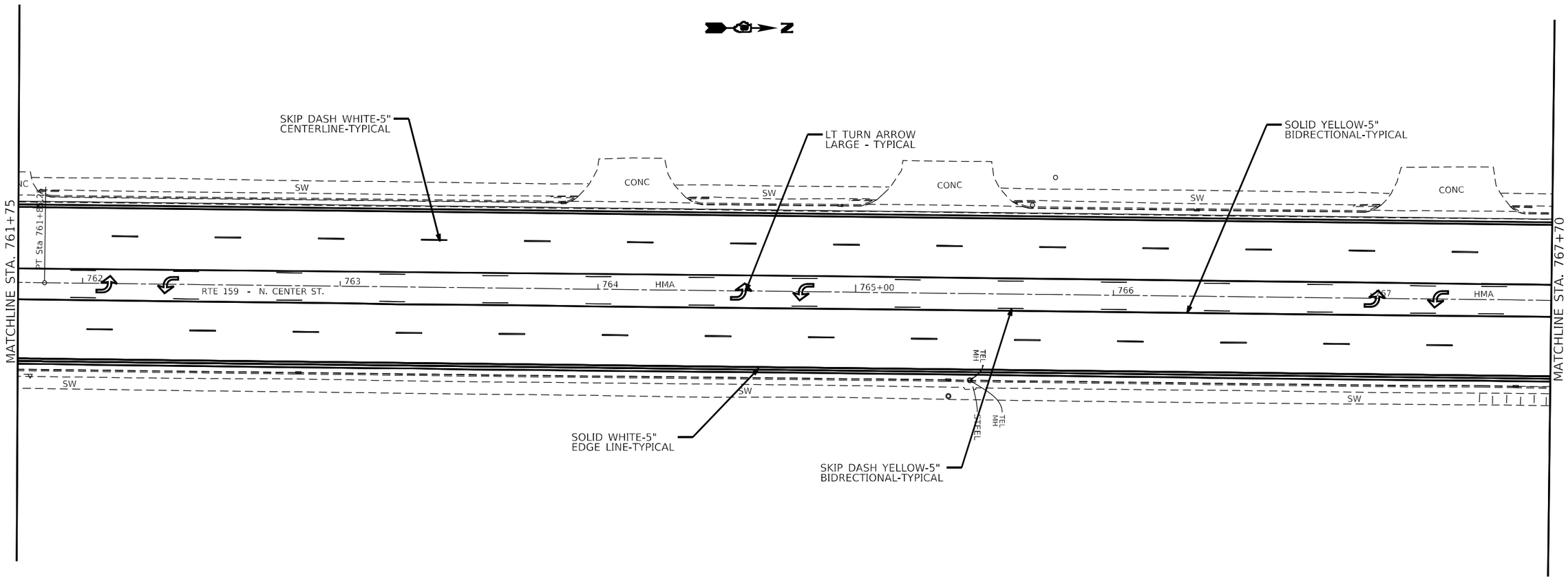
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 31 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	211
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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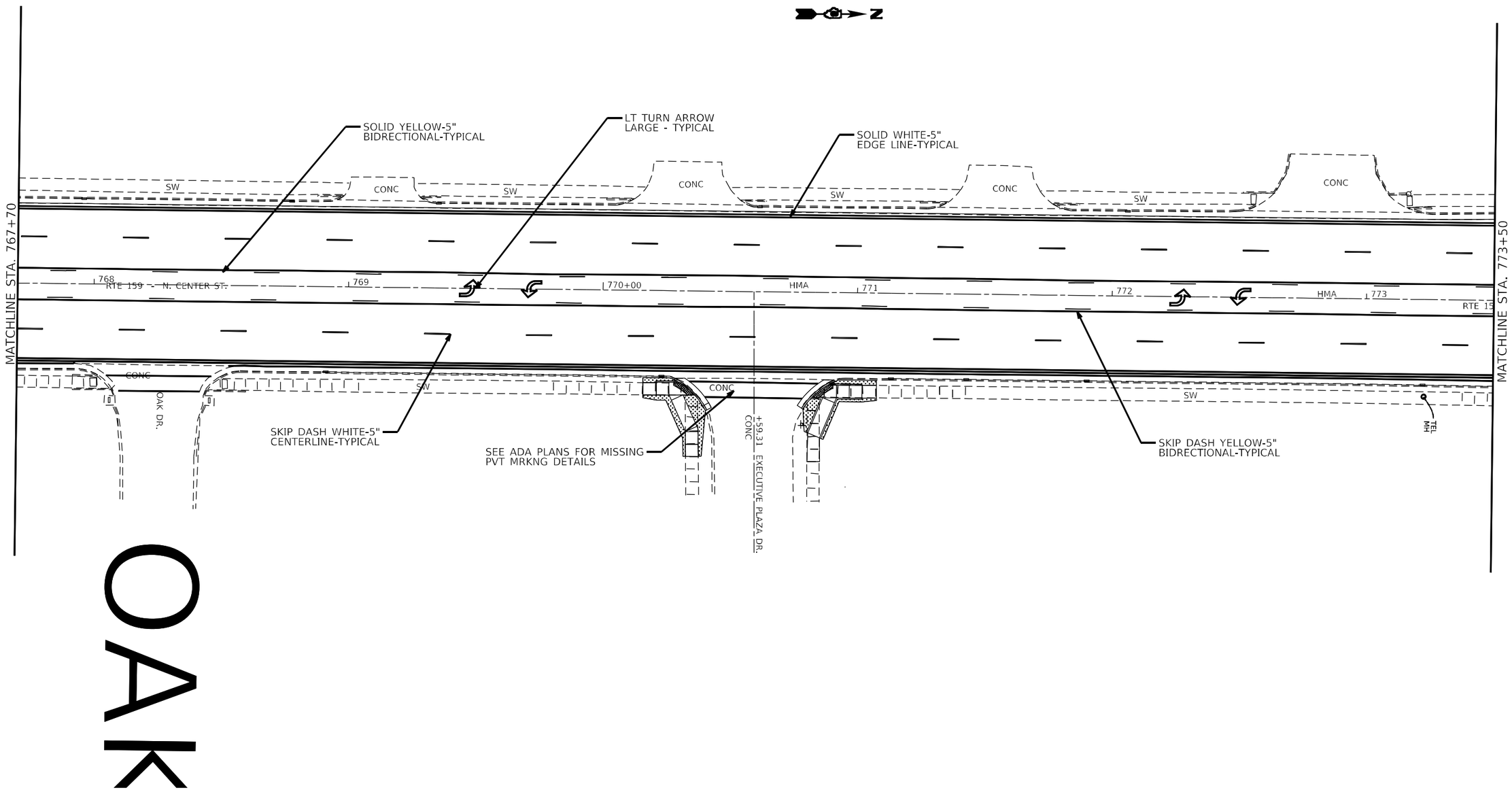
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 32 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	212
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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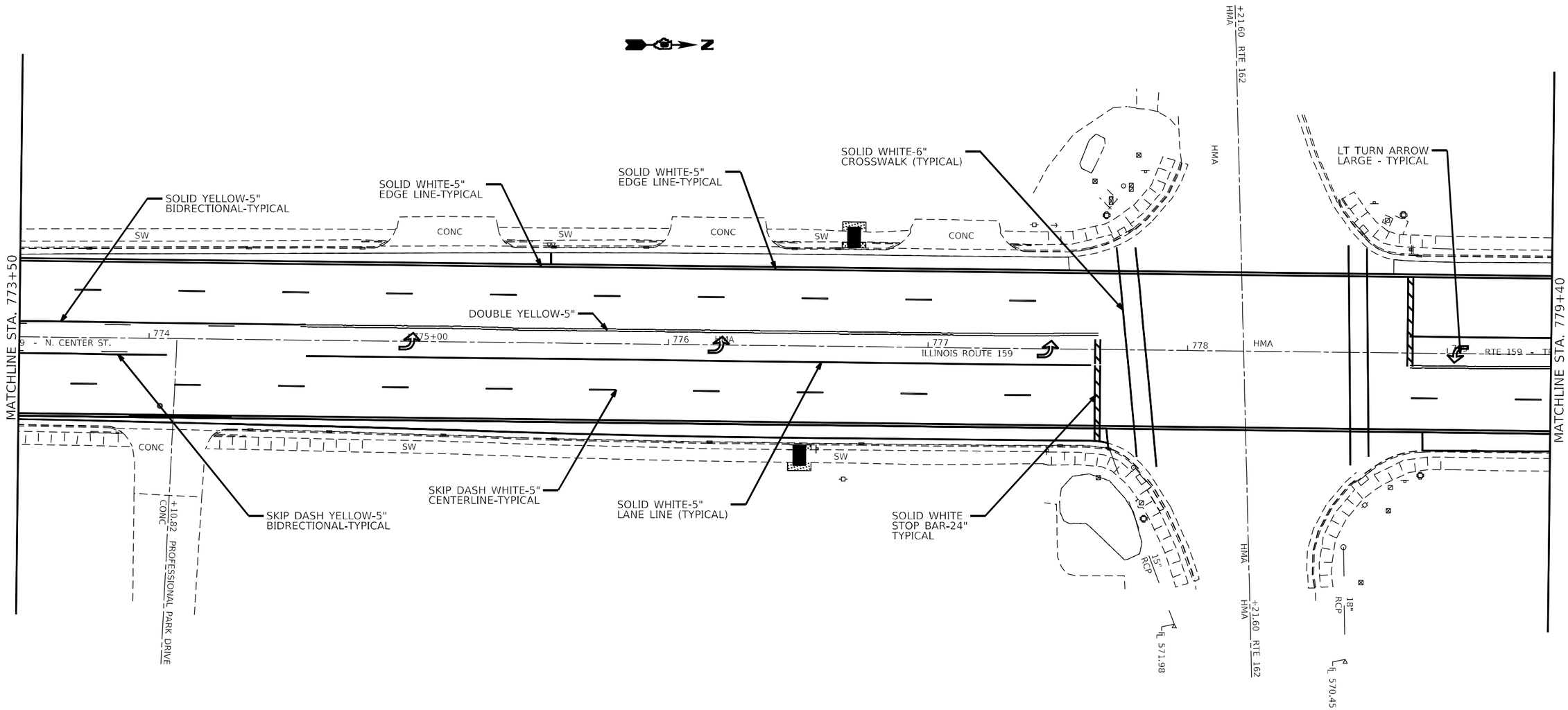
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 33 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	213
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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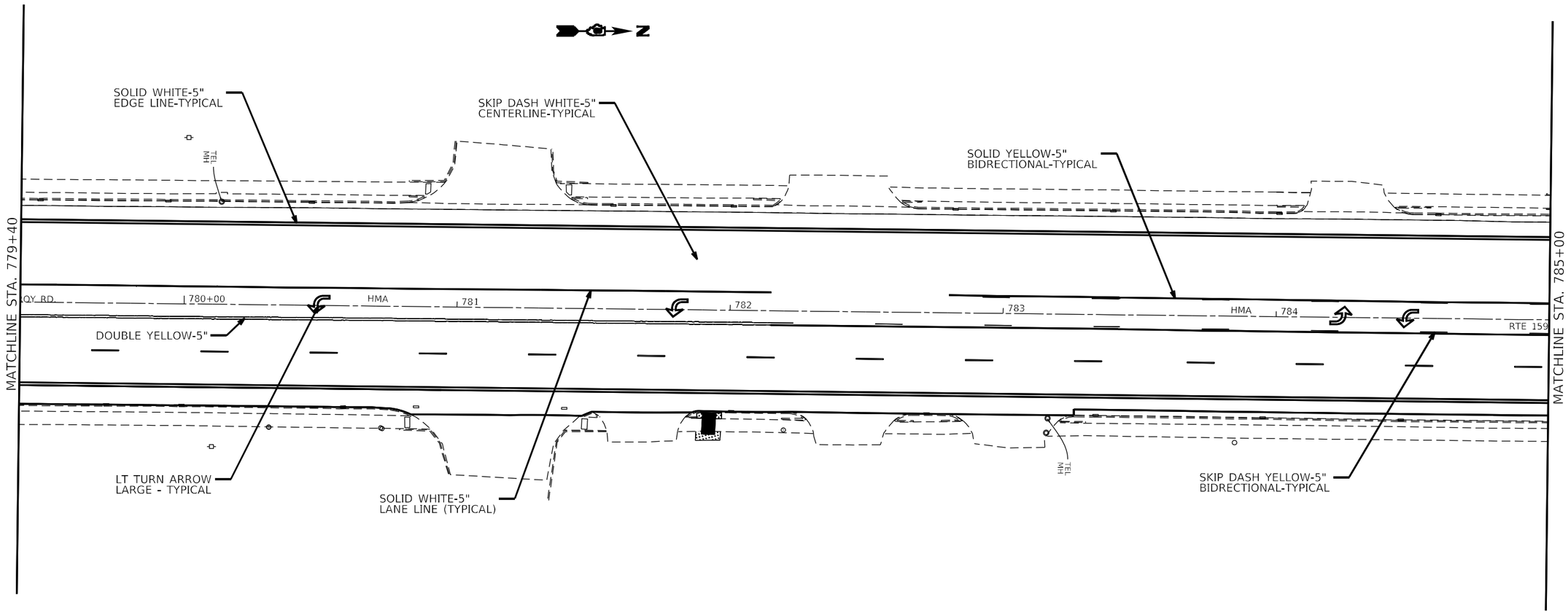
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 34 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	214
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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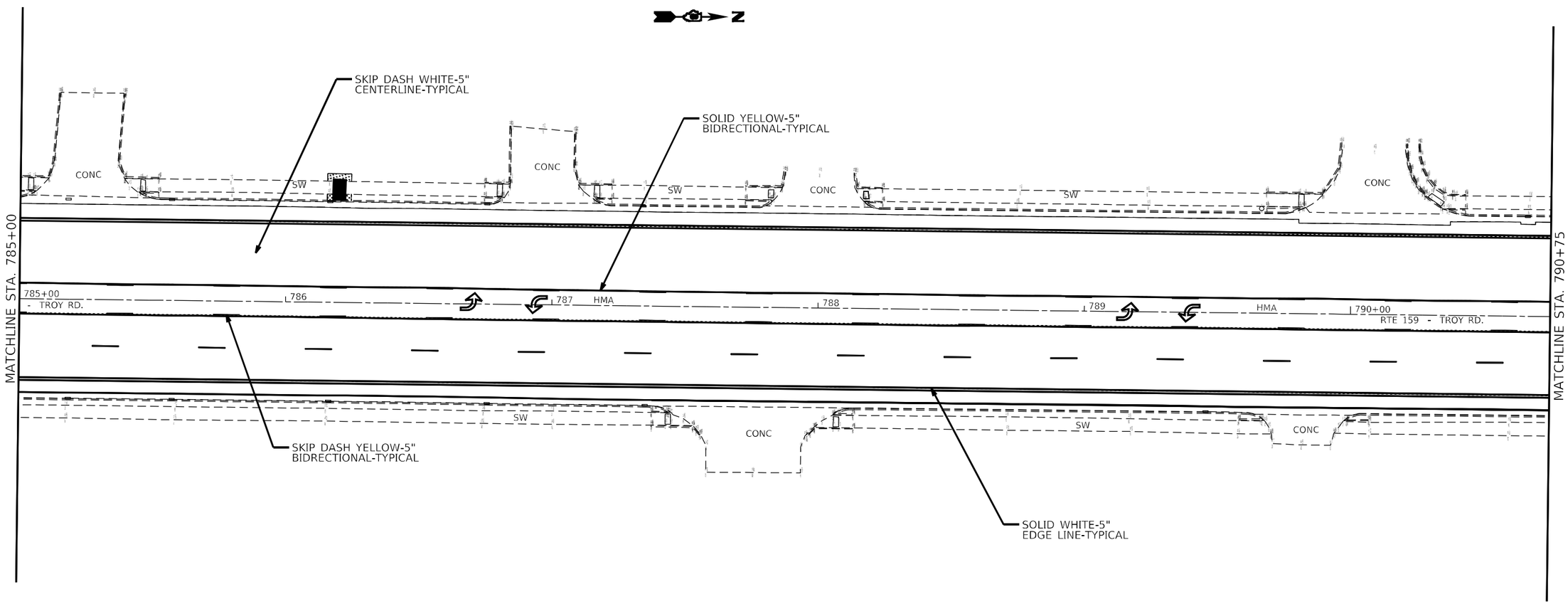
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 35 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	215
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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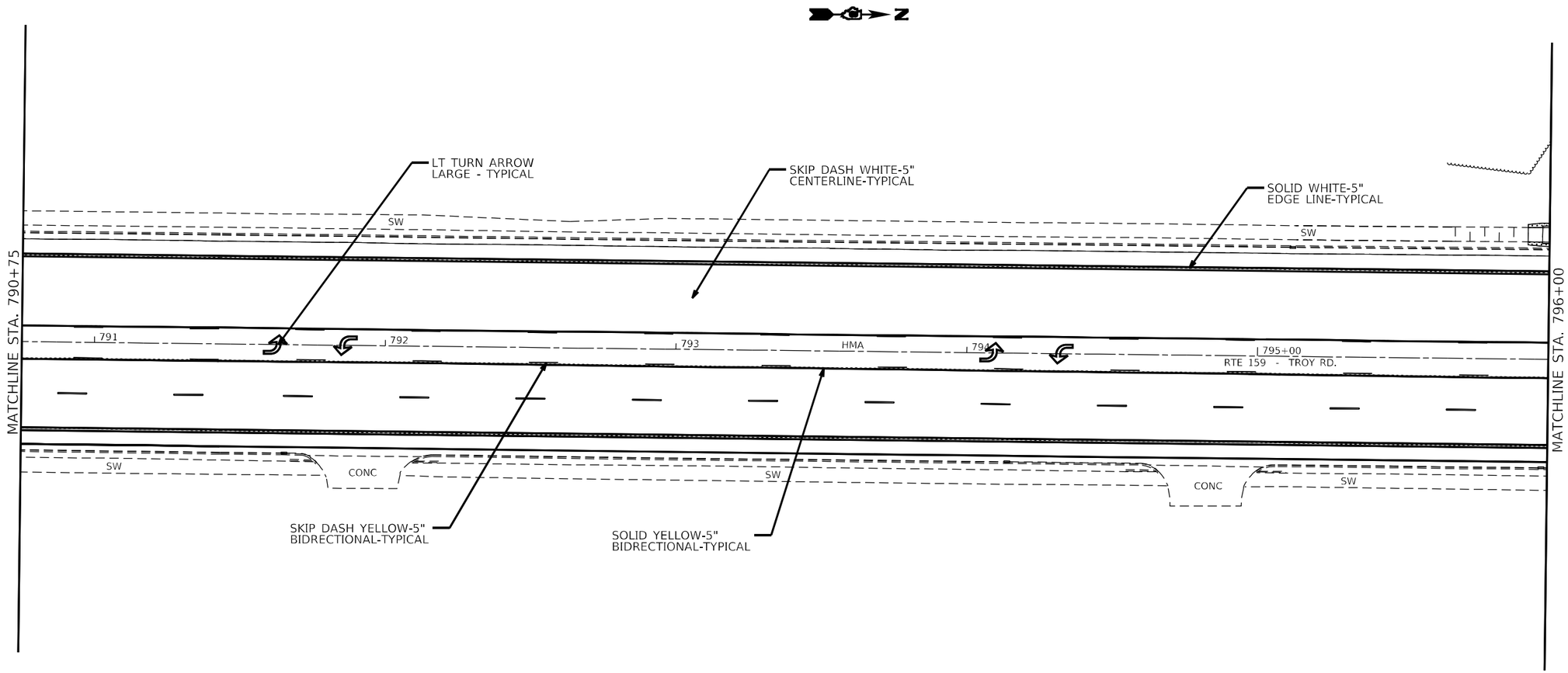
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 36 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	216
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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	DRAWN -	REVISED -	
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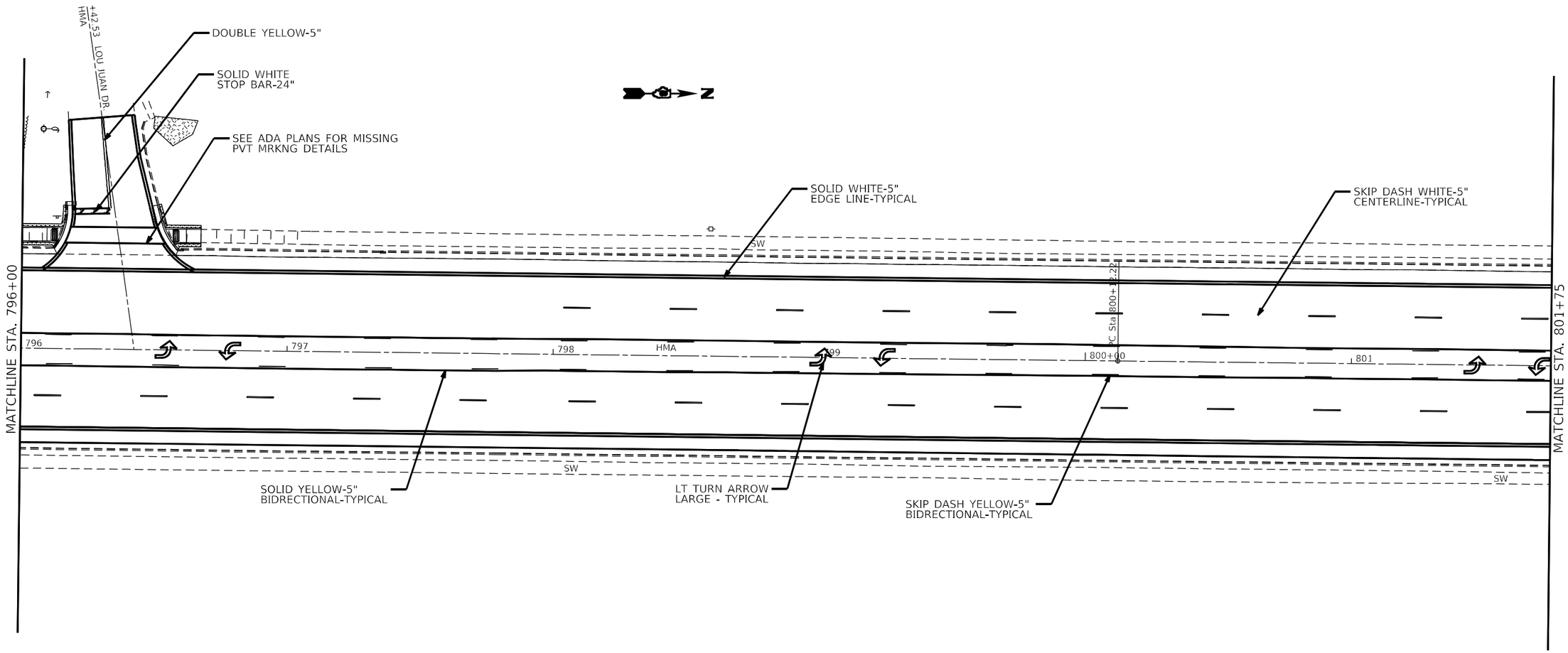
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 37 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	217
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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	DRAWN -	REVISED -	
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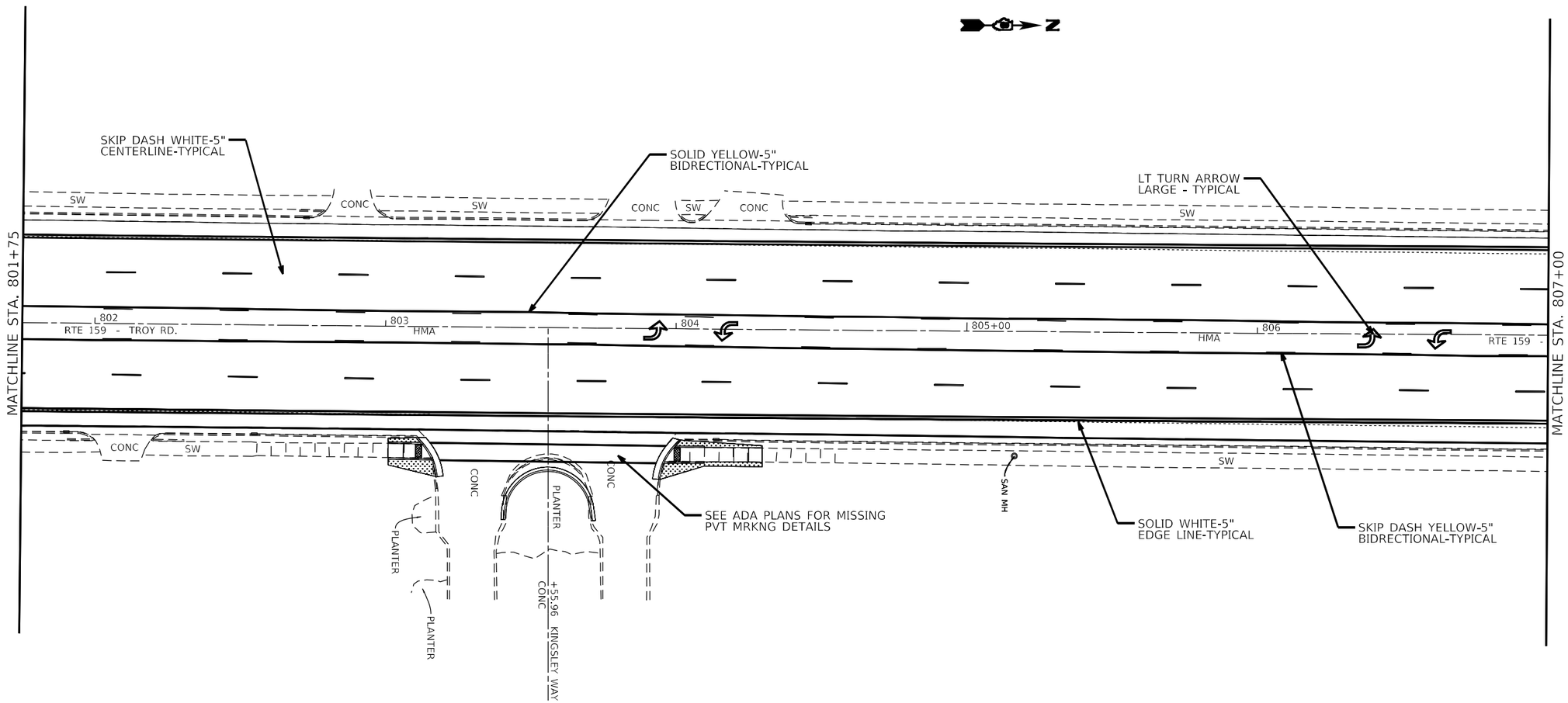
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 38 OF 64 SHEETS | STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	218
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



.
T
L =
E = 2.
e = ____
T.R. = ____
S.E. RUN = _
P.C. STA. = 80
P.T. STA. = 816

MODEL: $MODELNAME$
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USER NAME = edison.zonforyi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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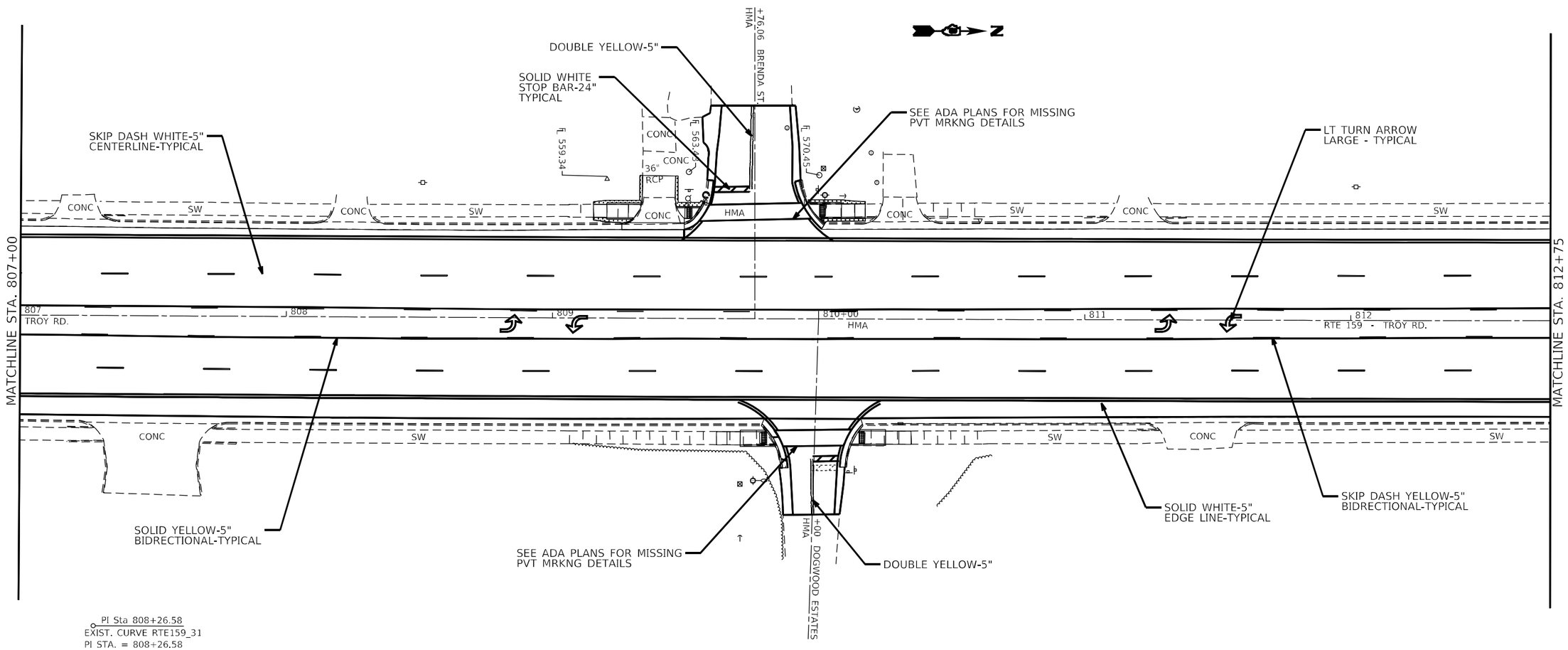
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 39 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	2198
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



PI Sta 808+26.58
EXIST. CURVE RTE159_31
PI STA. = 808+26.58
Δ = 0° 45' 36" (LT)
D = 0° 02' 48"
R = 122,780.10'
T = 814.35'
L = 1,628.68'
E = 2.70'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 800+12.22
P.T. STA. = 816+40.90

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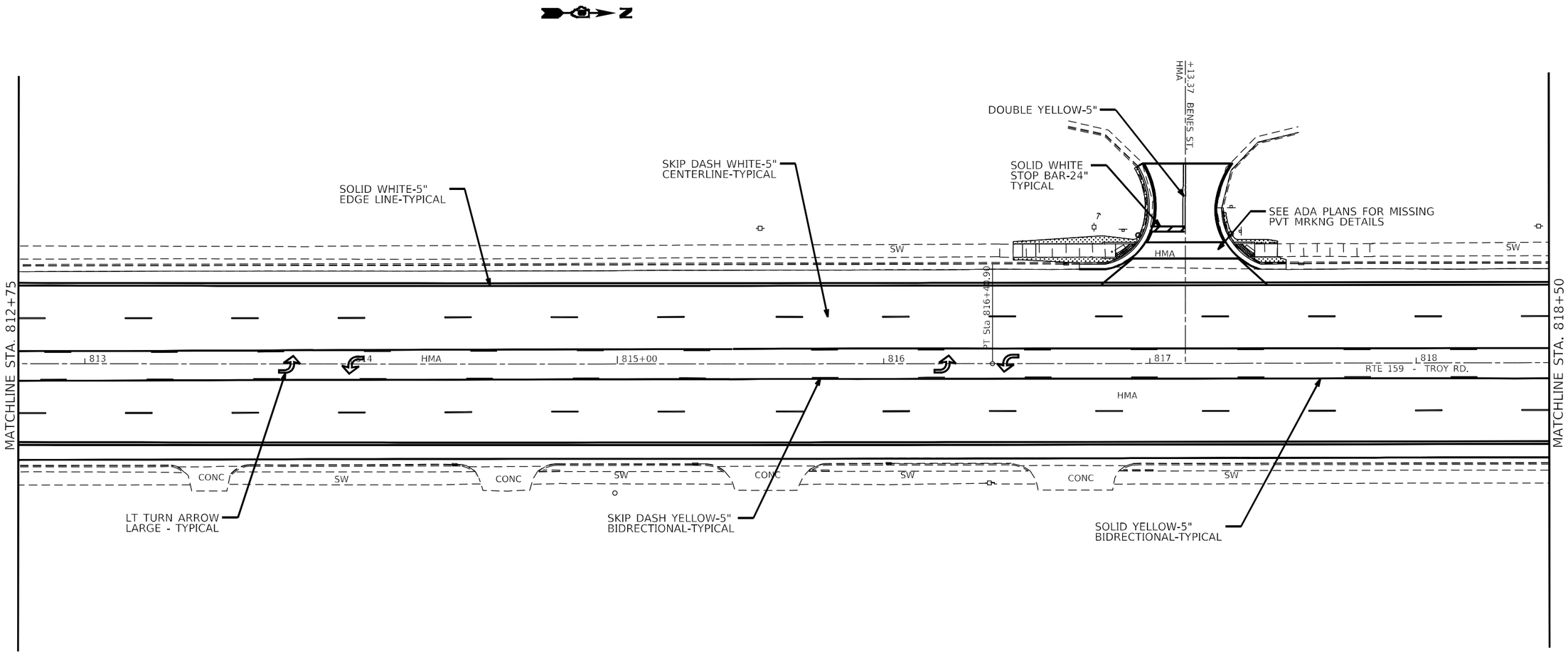
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 40 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	220
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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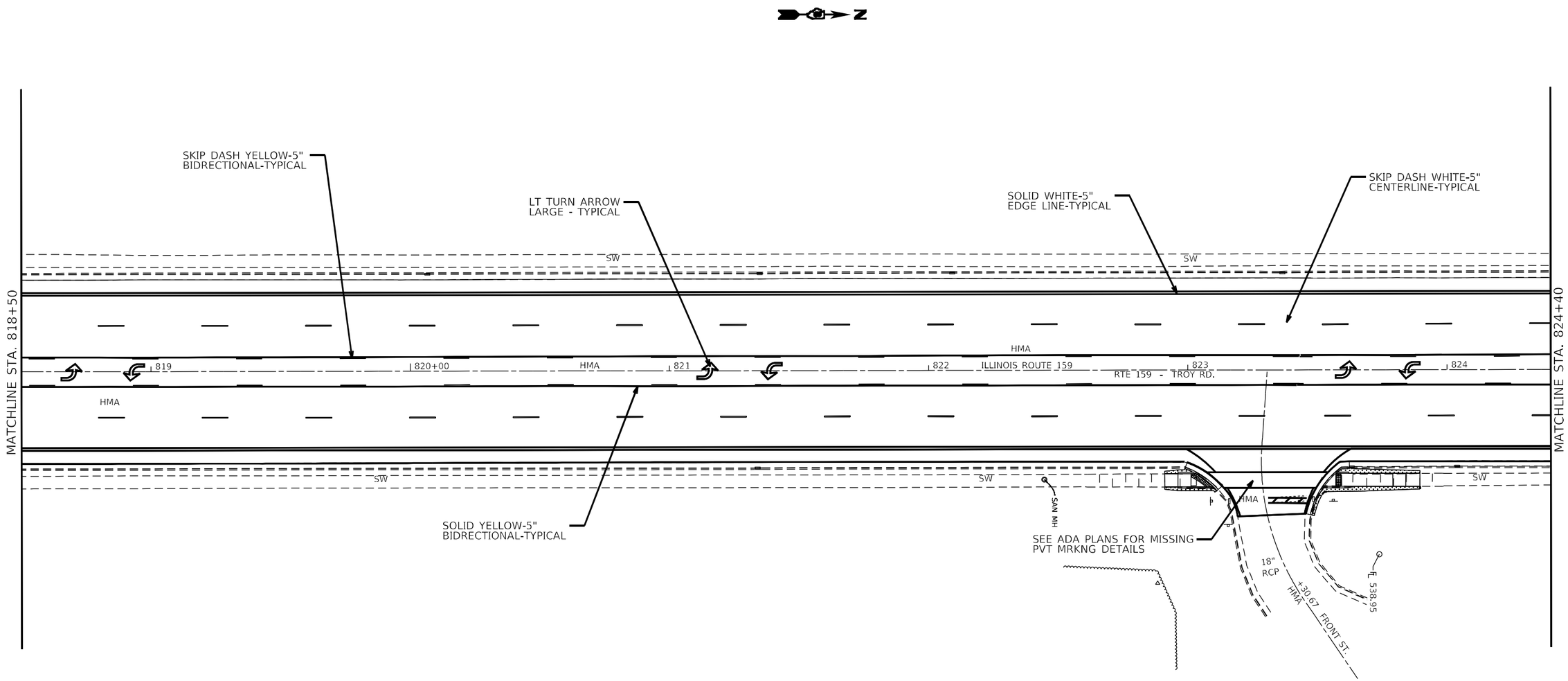
USER NAME = edison.zohforyi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 41 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	221
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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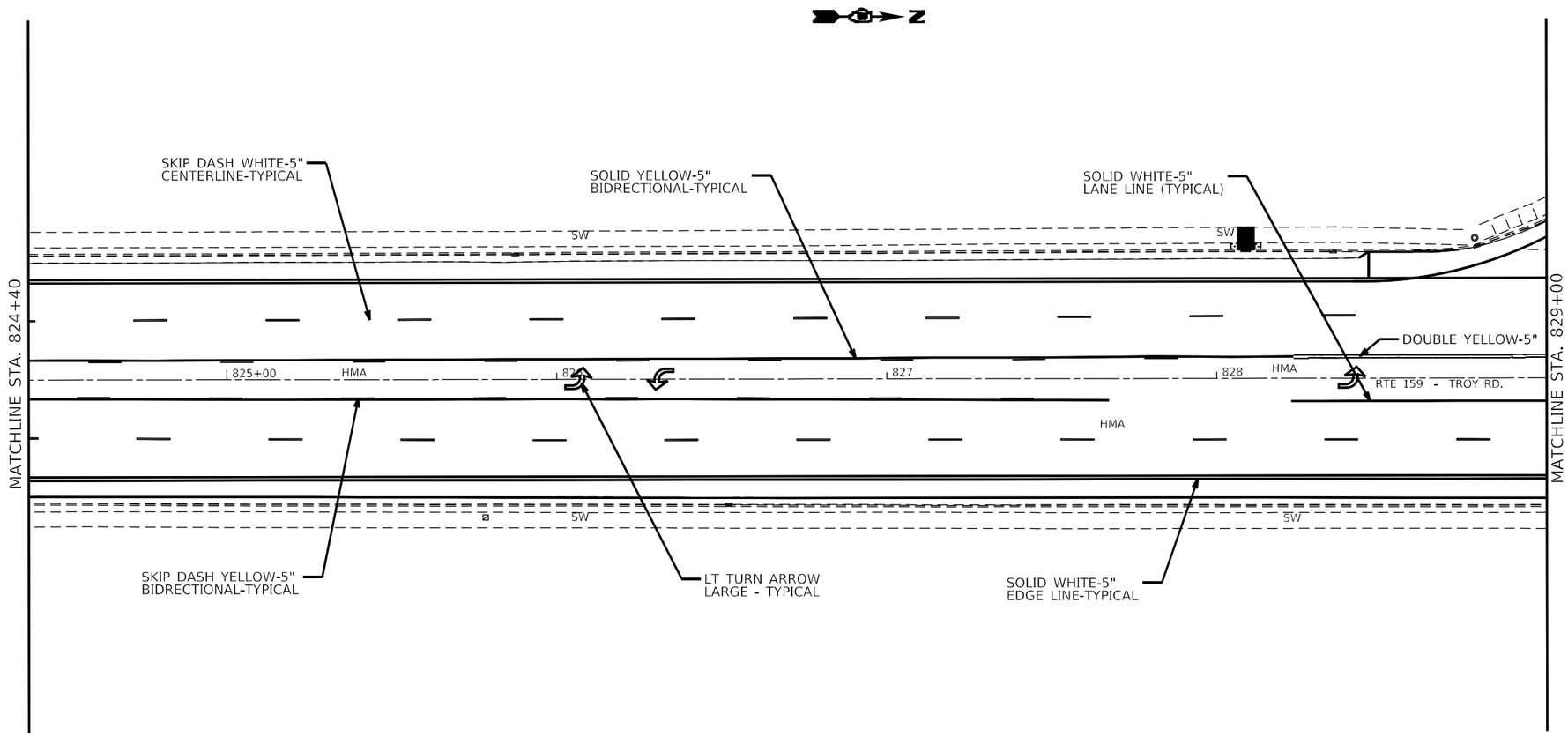
USER NAME = edison.zoniforyi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING	FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			*	(122,122-1,30)RS-4	MADISON	328	222
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -			*600/8887		CONTRACT NO. 76M87		
PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: 1:20 SHEET 42 OF 64 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



+70.8'
HMA

MODEL: SMODELNAMES
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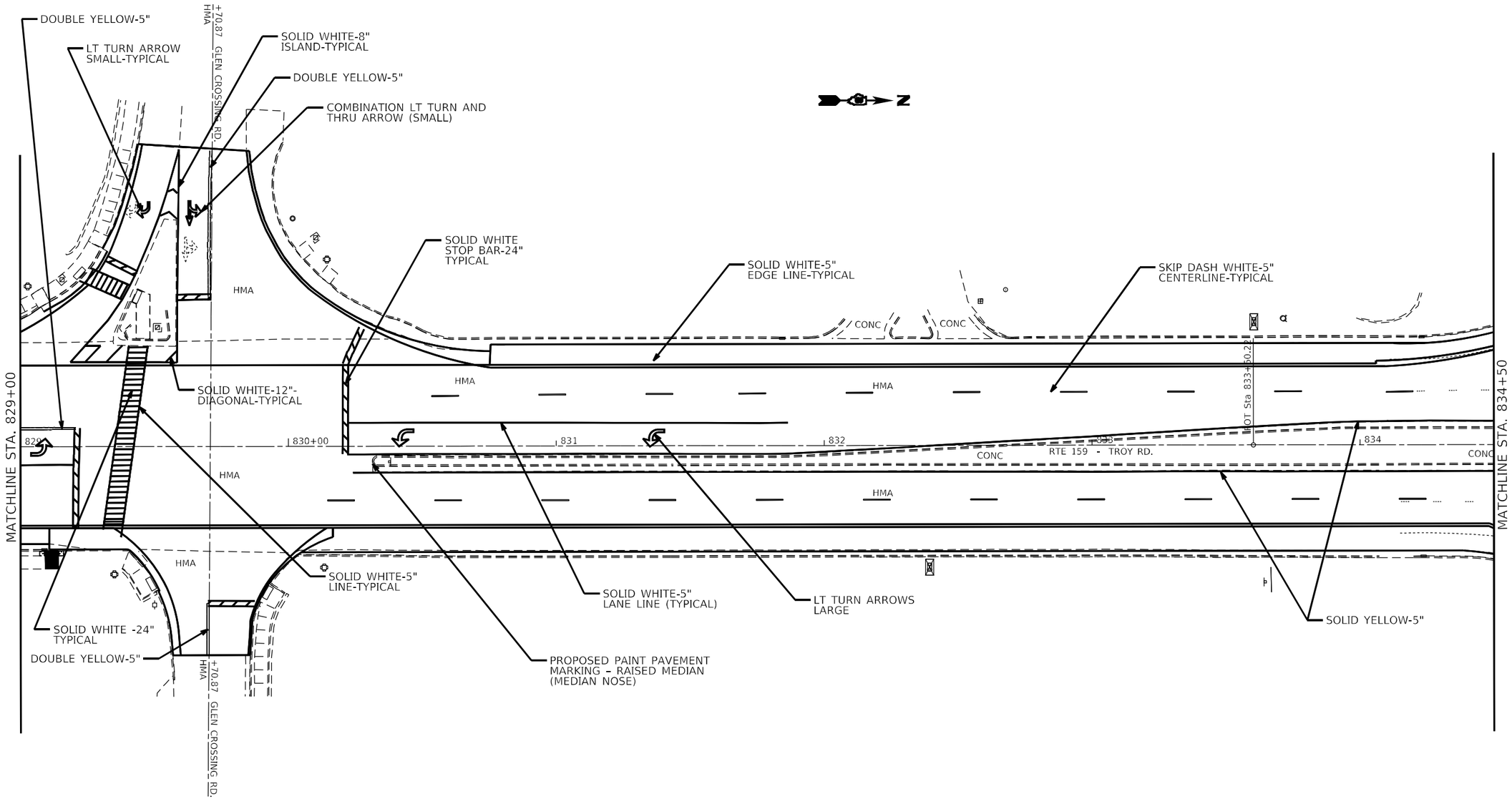
USER NAME = edison.zontforyi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING	FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			*	(122,122-1,30)RS-4	MADISON	328	223
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -			*600/8887		CONTRACT NO. 76M87		
PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: 1:20 SHEET 43 OF 64 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



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	DRAWN -	REVISED -	
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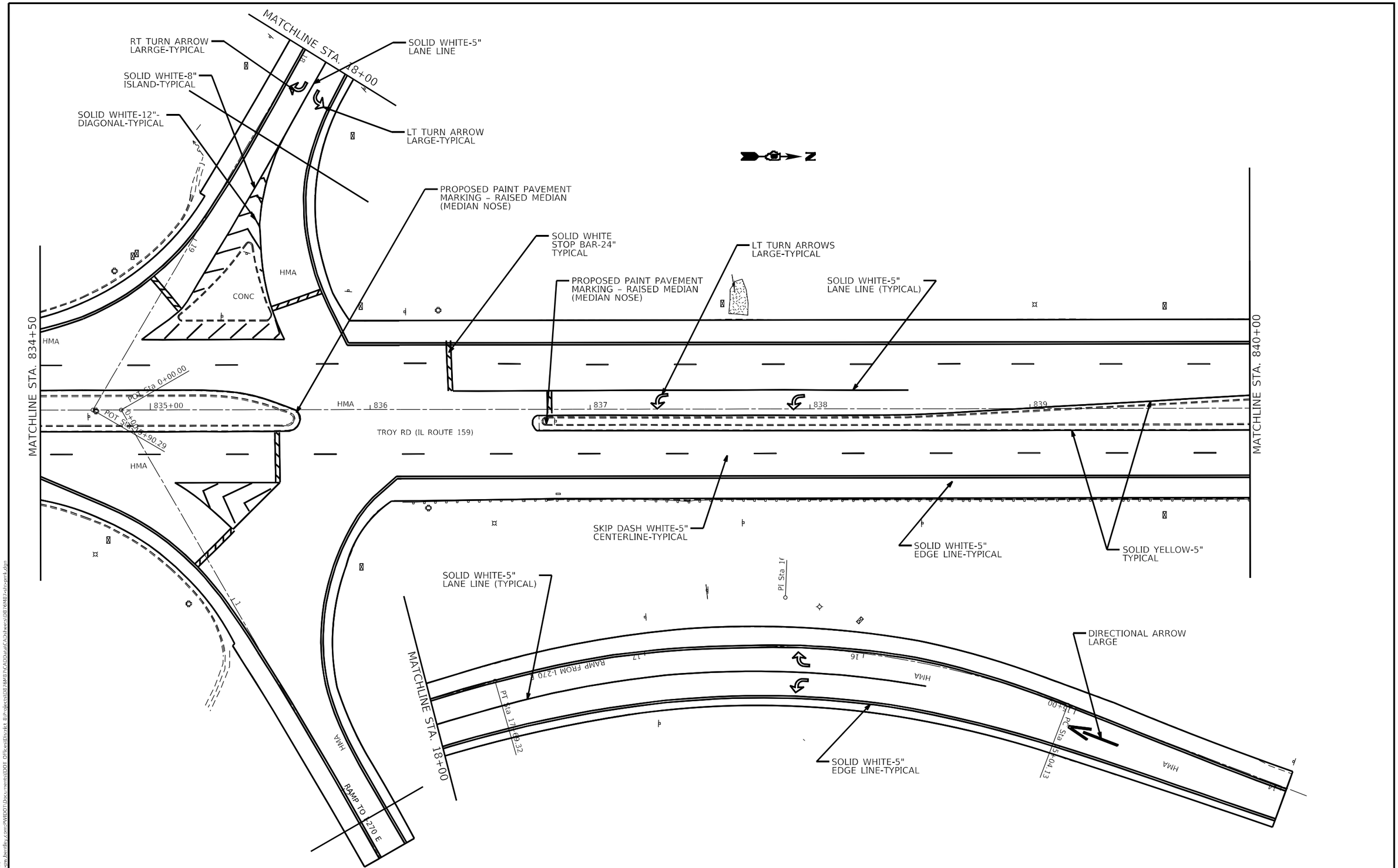
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 44 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	224
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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USER NAME = edison.zohforyi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
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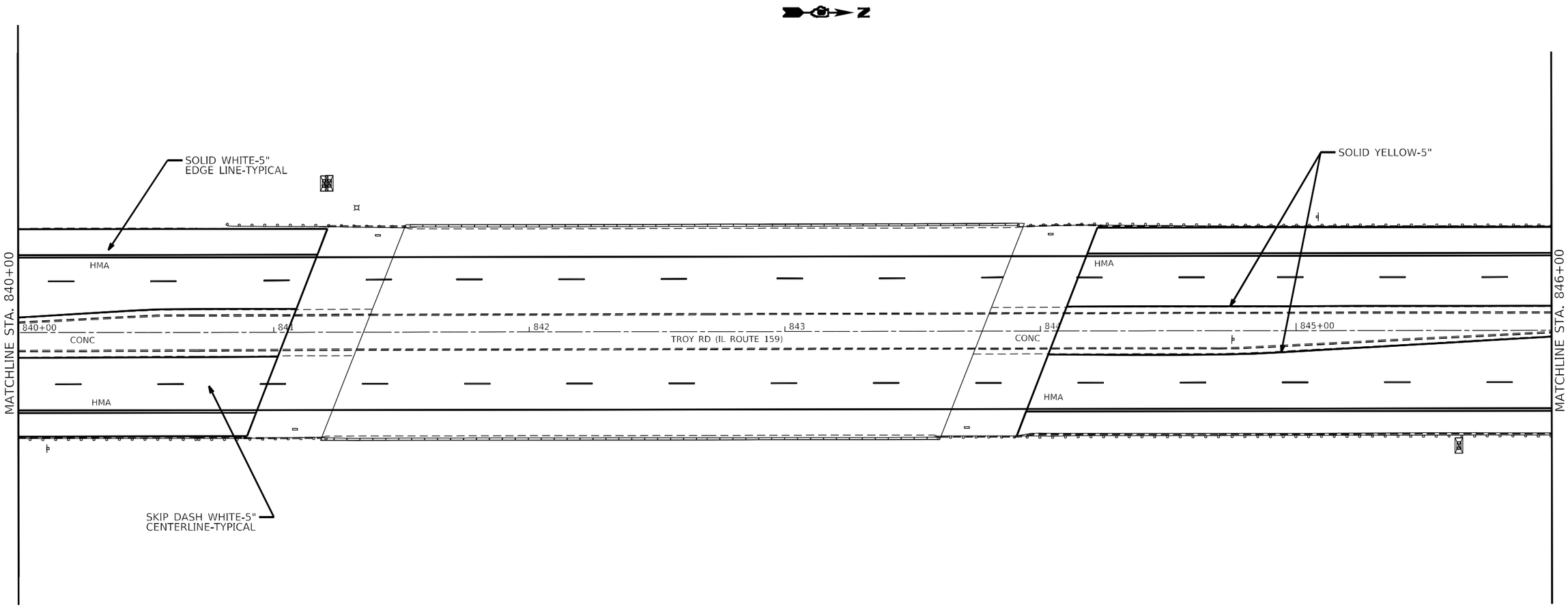
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 45 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	225
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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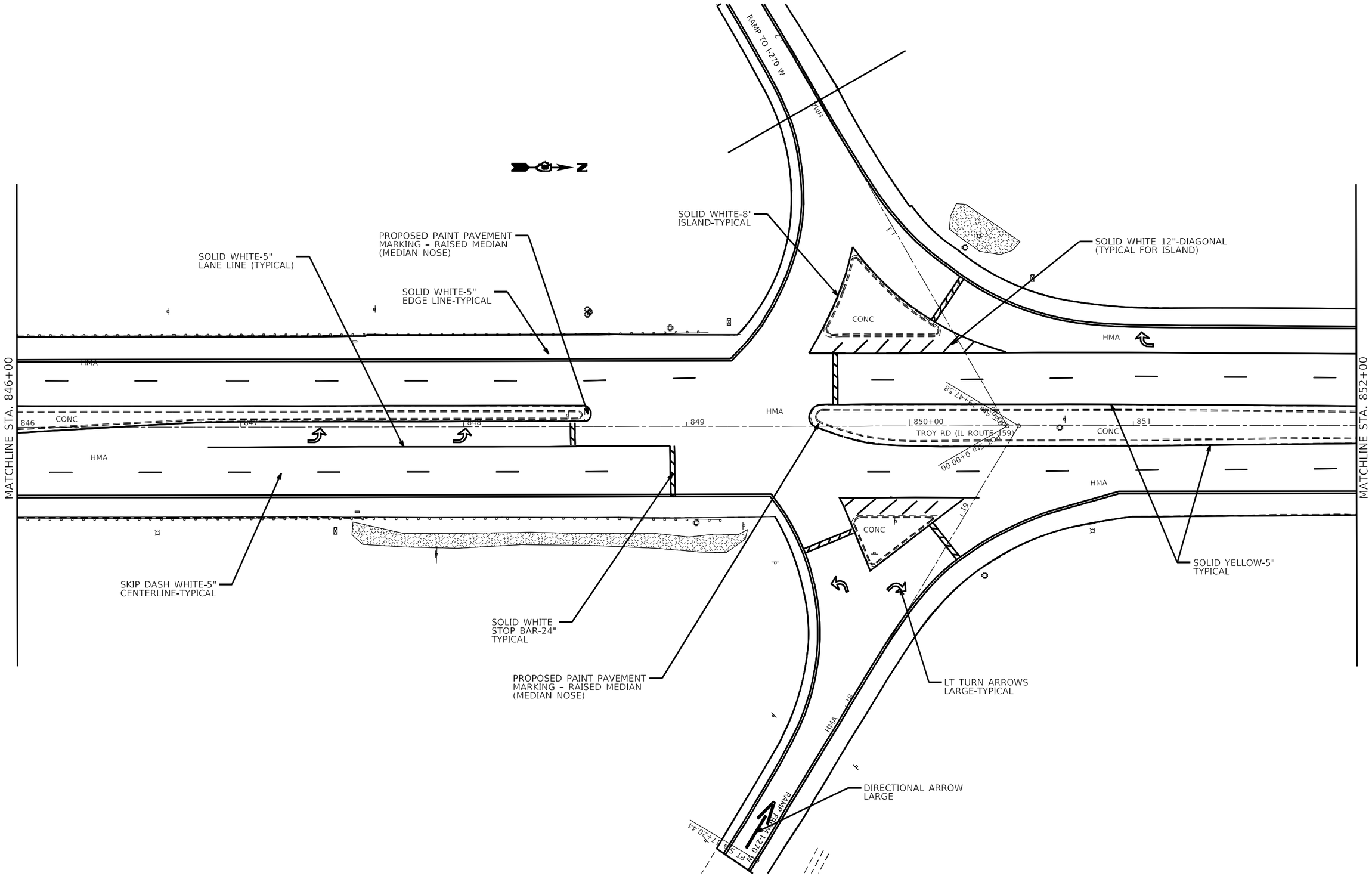
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 46 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	226
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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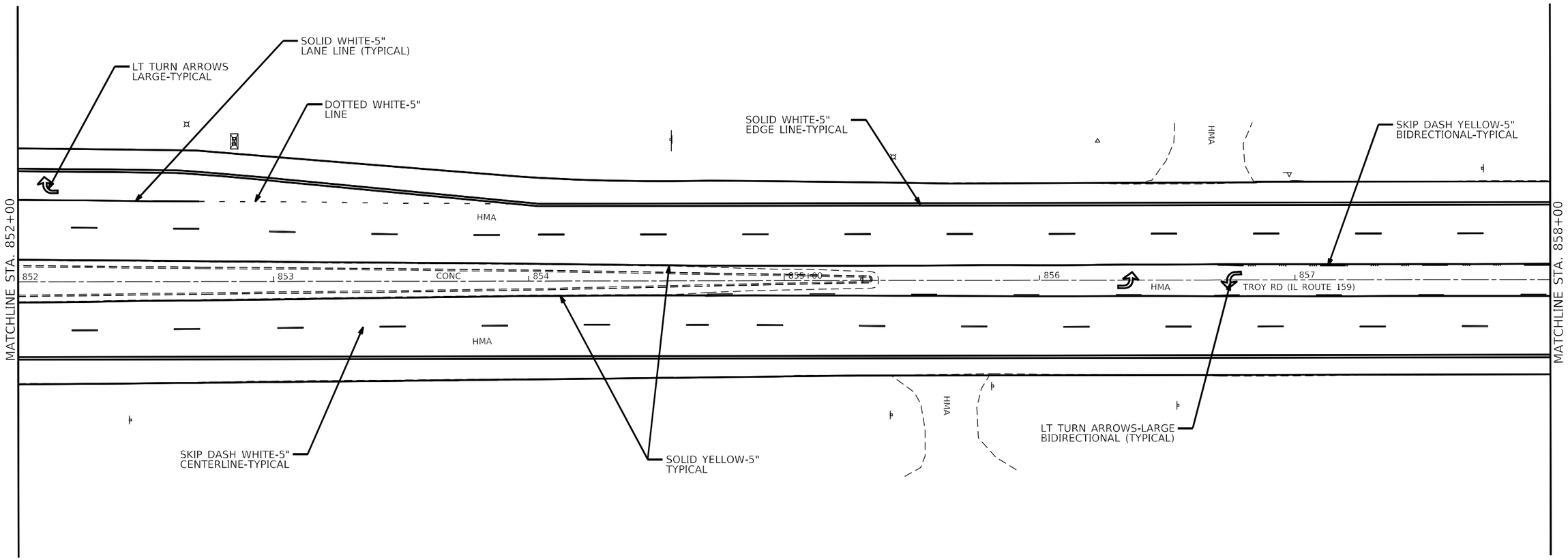
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 47 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	227
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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	DRAWN -	REVISED -	
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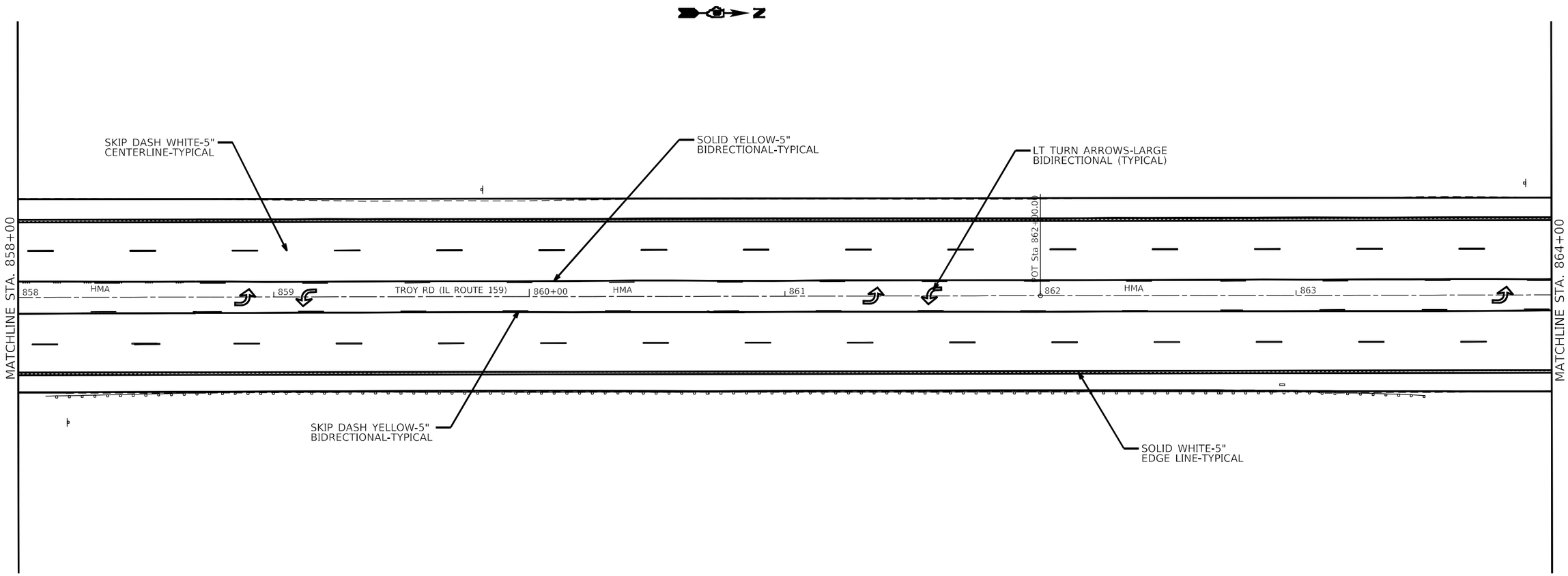
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 48 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	228
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



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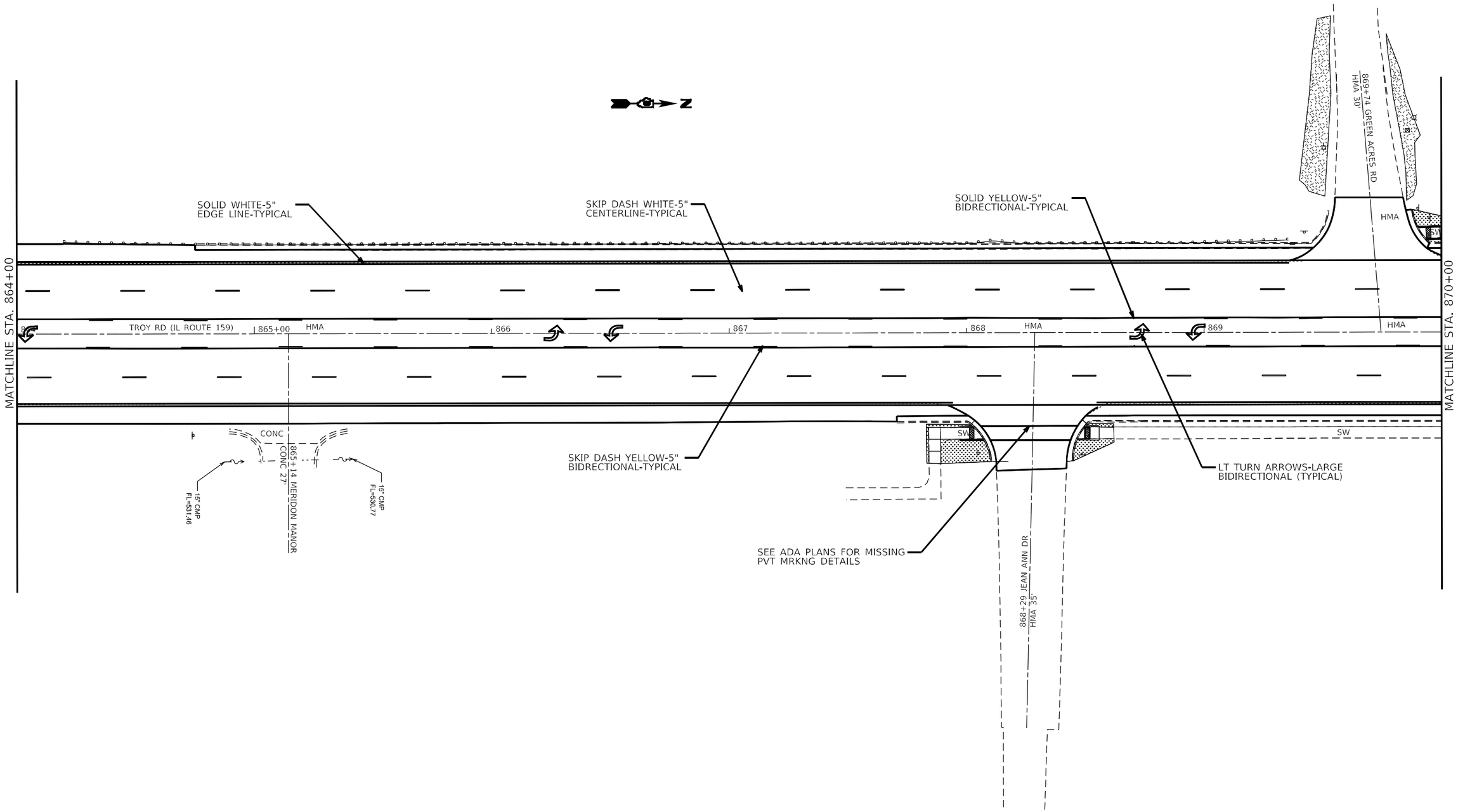
USER NAME = edison.zohforyi	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING	FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			-	(122,122-1,30)RS-4	MADISON	328	229
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -			*600/8887		CONTRACT NO. 76M87		
PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: 1:20 SHEET 49 OF 64 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



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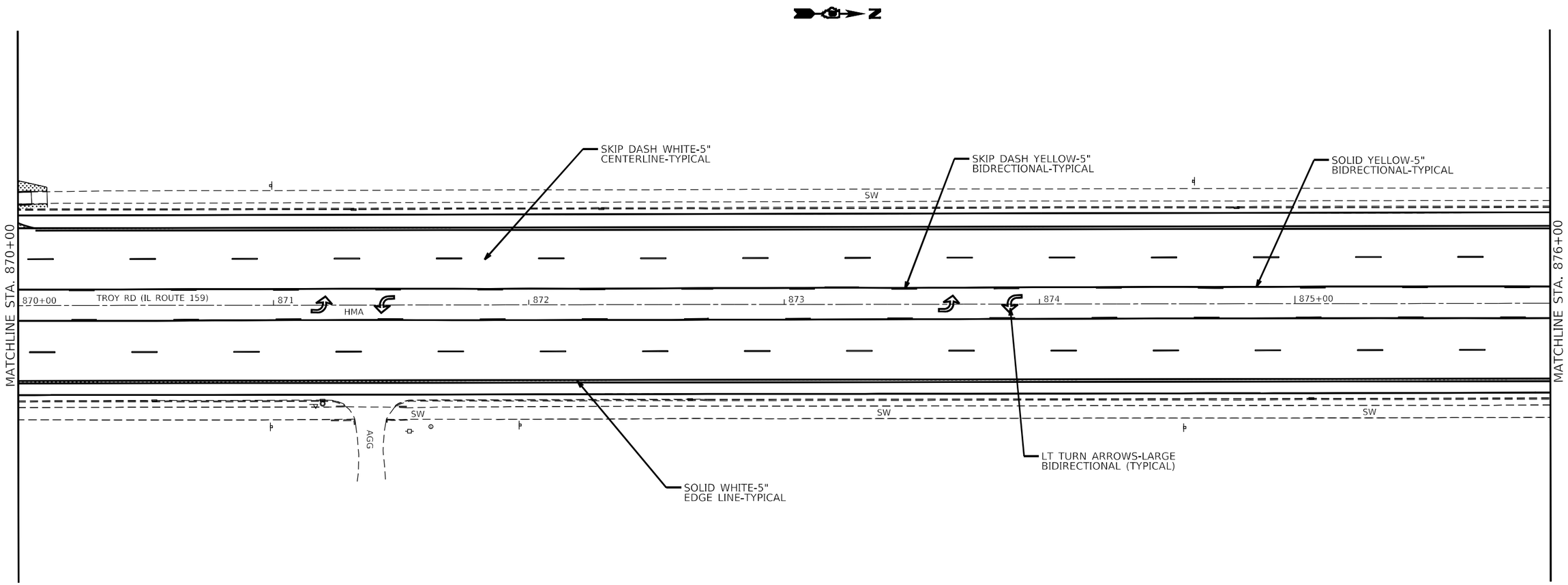
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 50 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	230
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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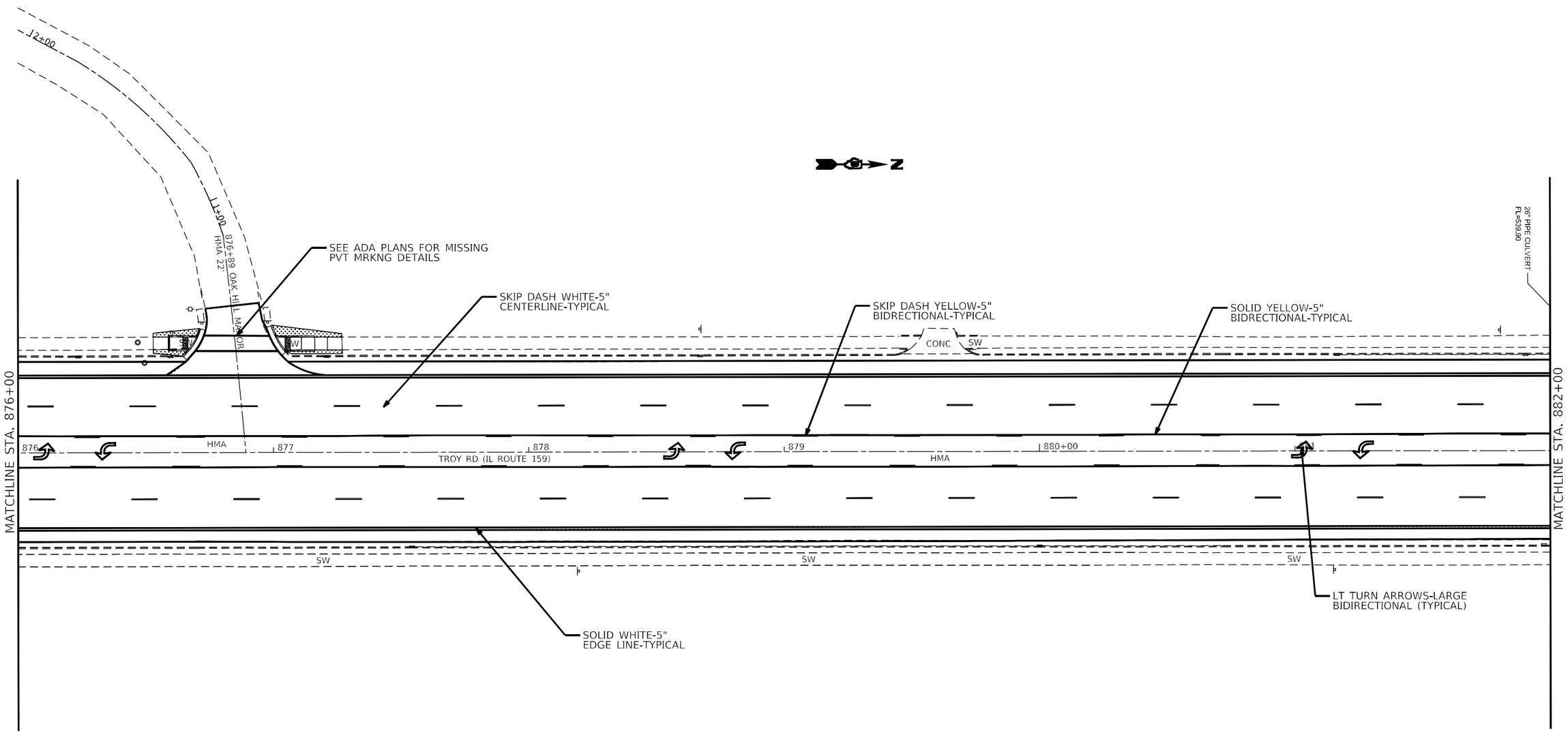
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 51 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	231
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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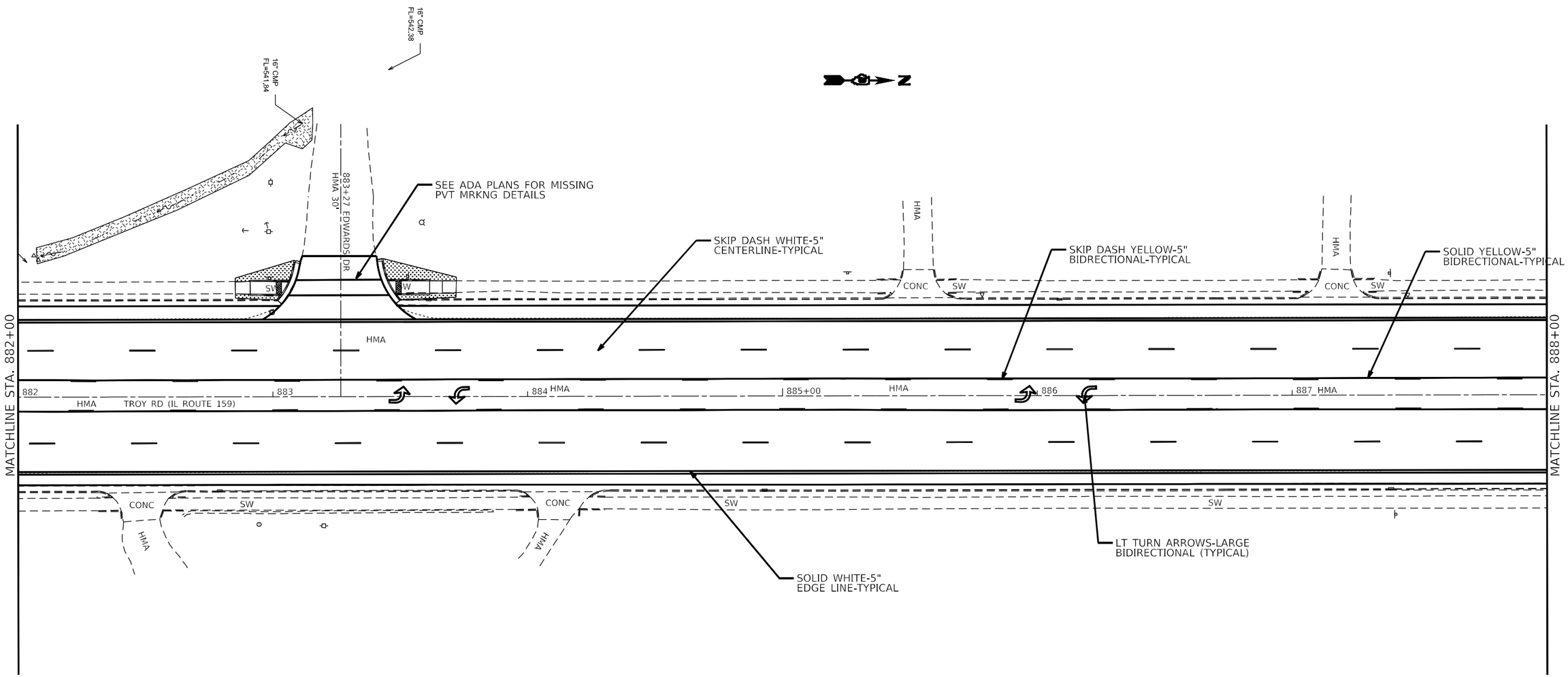
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 52 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	232
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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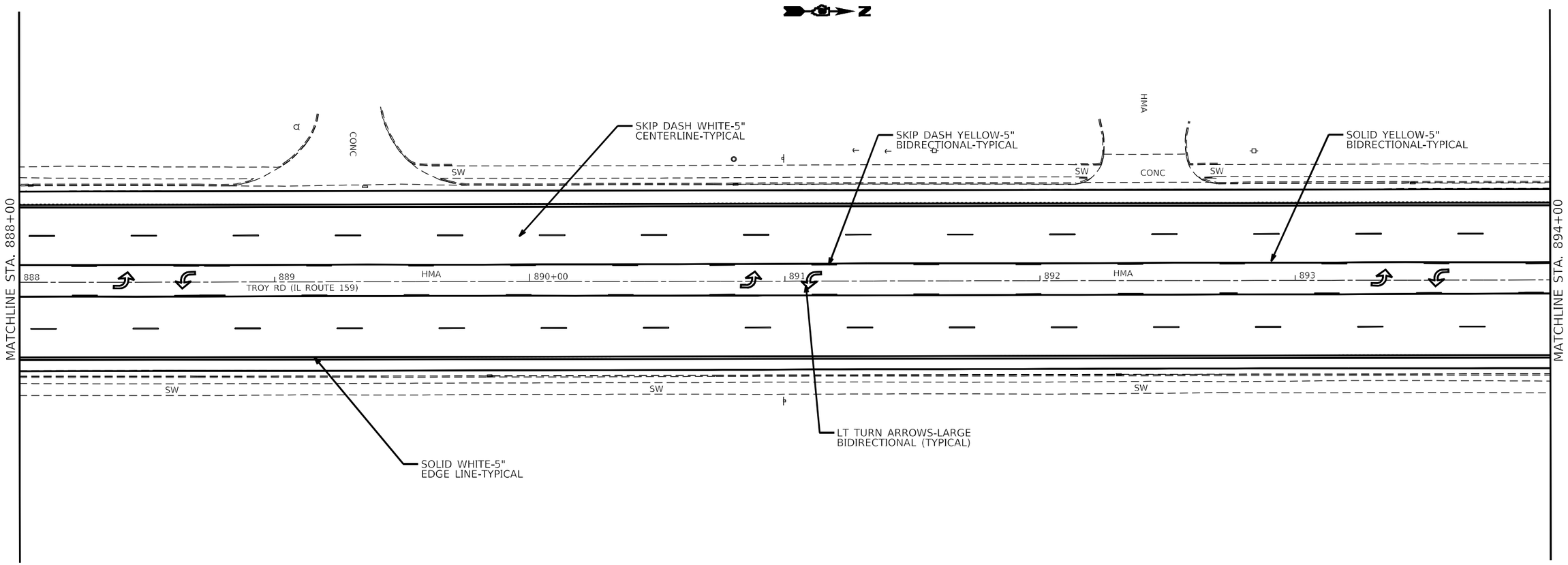
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 53 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	233
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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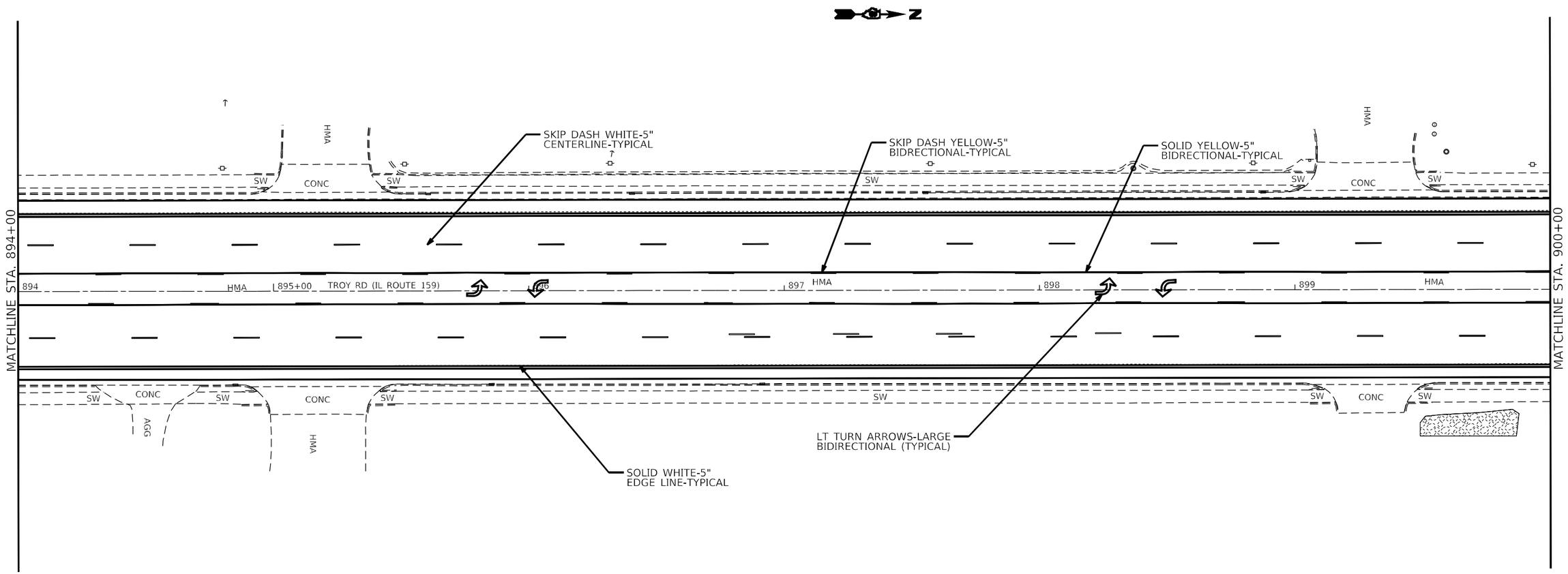
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 54 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	234
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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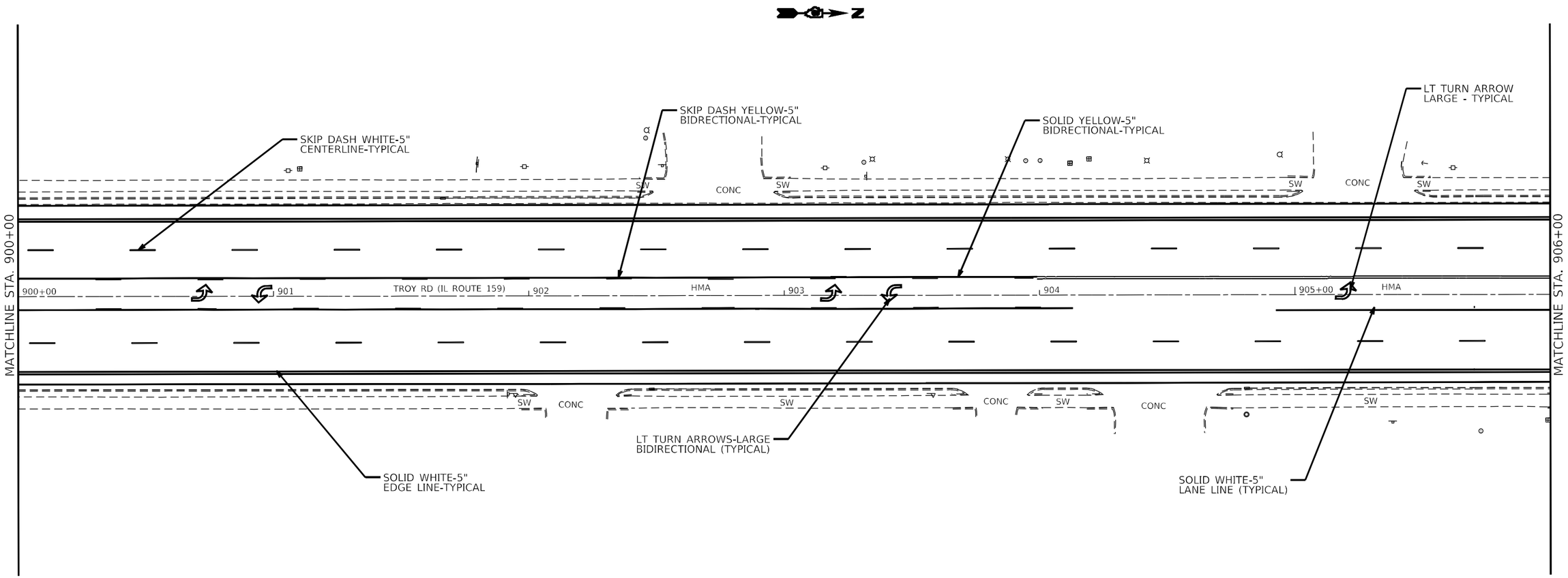
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 55 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	235
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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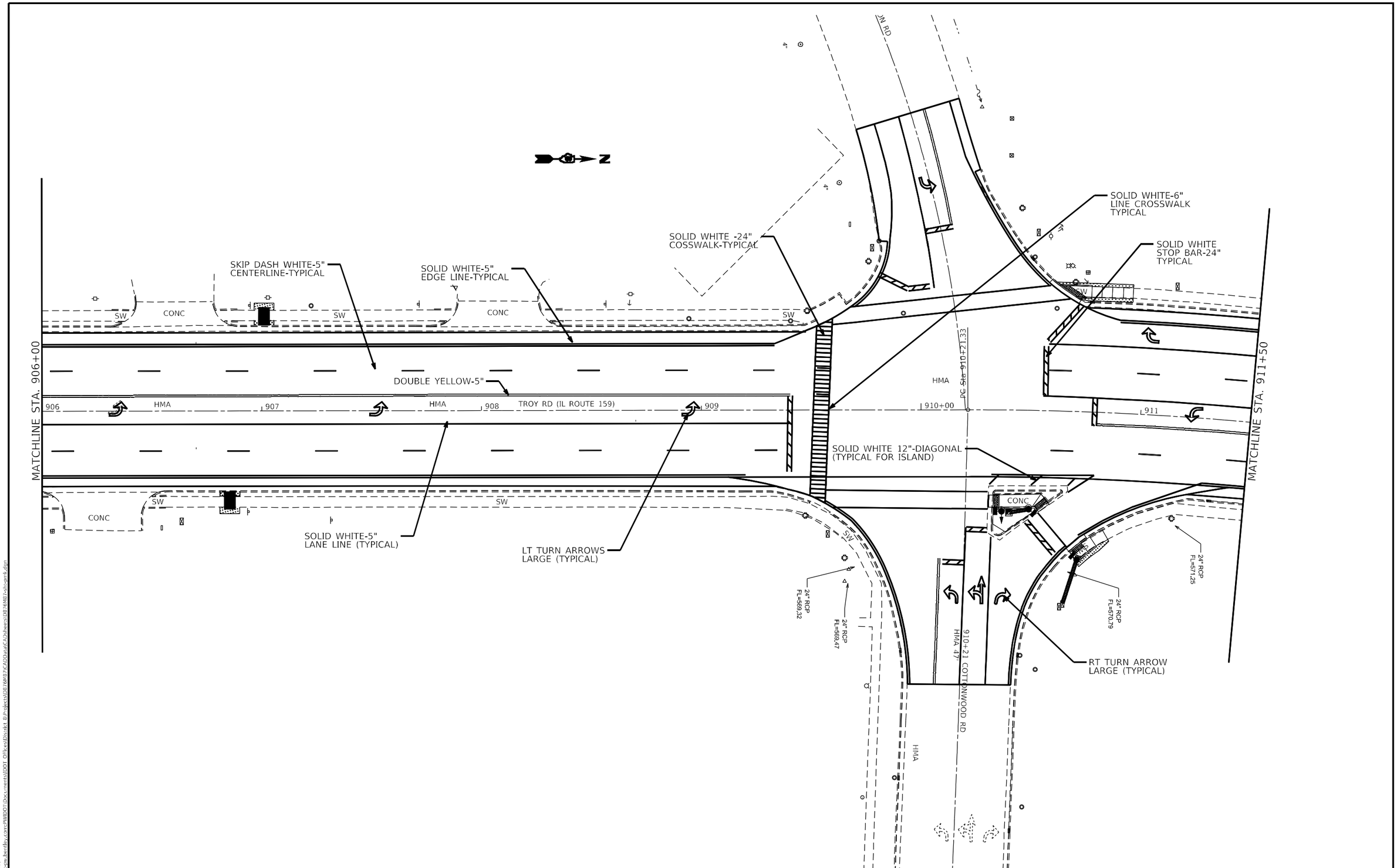
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 56 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	236
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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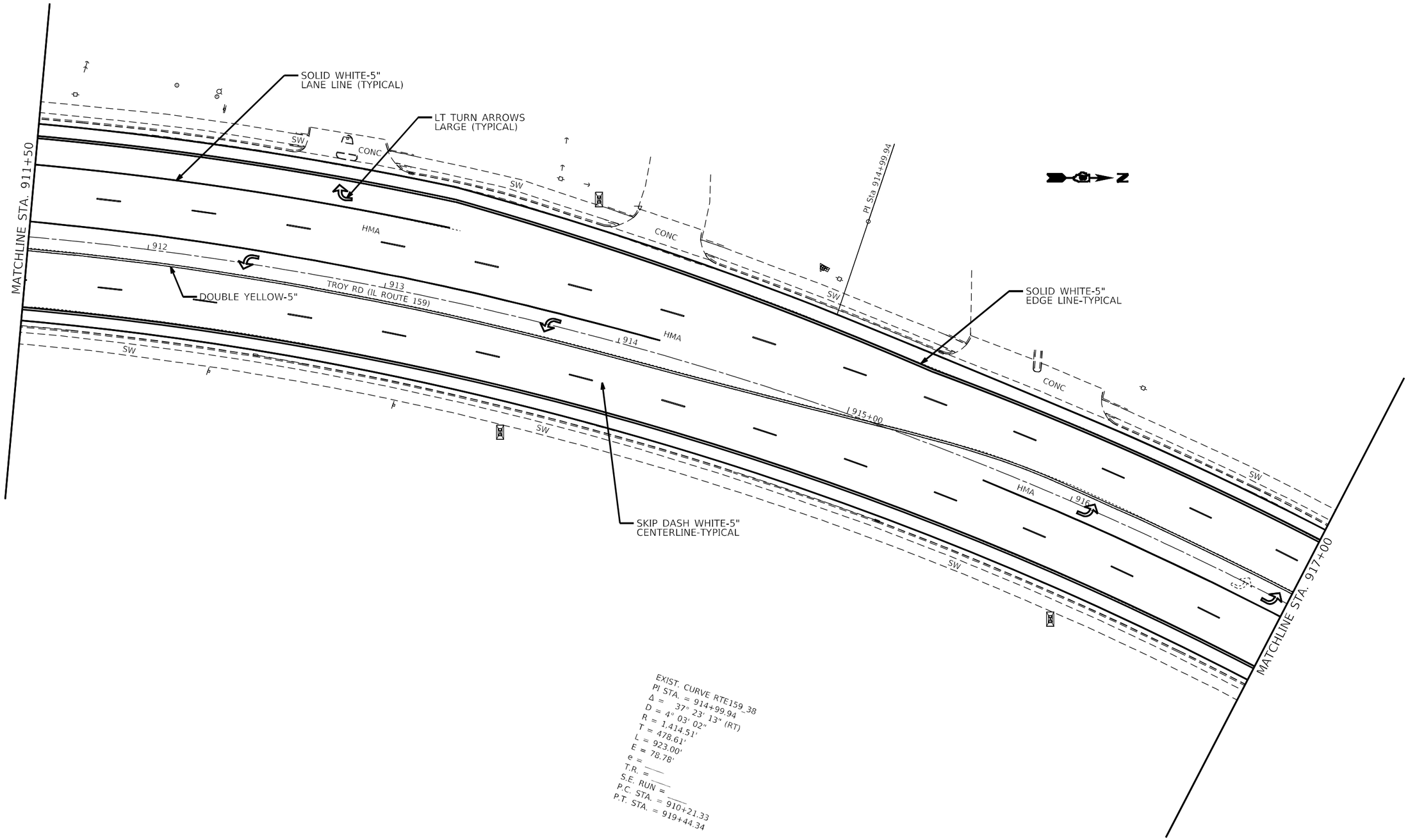
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 57 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	237
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



EXIST. CURVE RTE159_38
PI STA. = 914+99.94
Δ = 37° 23' 13" (RT)
D = 4° 03' 02"
R = 1,414.51'
T = 478.61'
L = 923.00'
E = 78.78'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 910+21.33
P.T. STA. = 919+44.34

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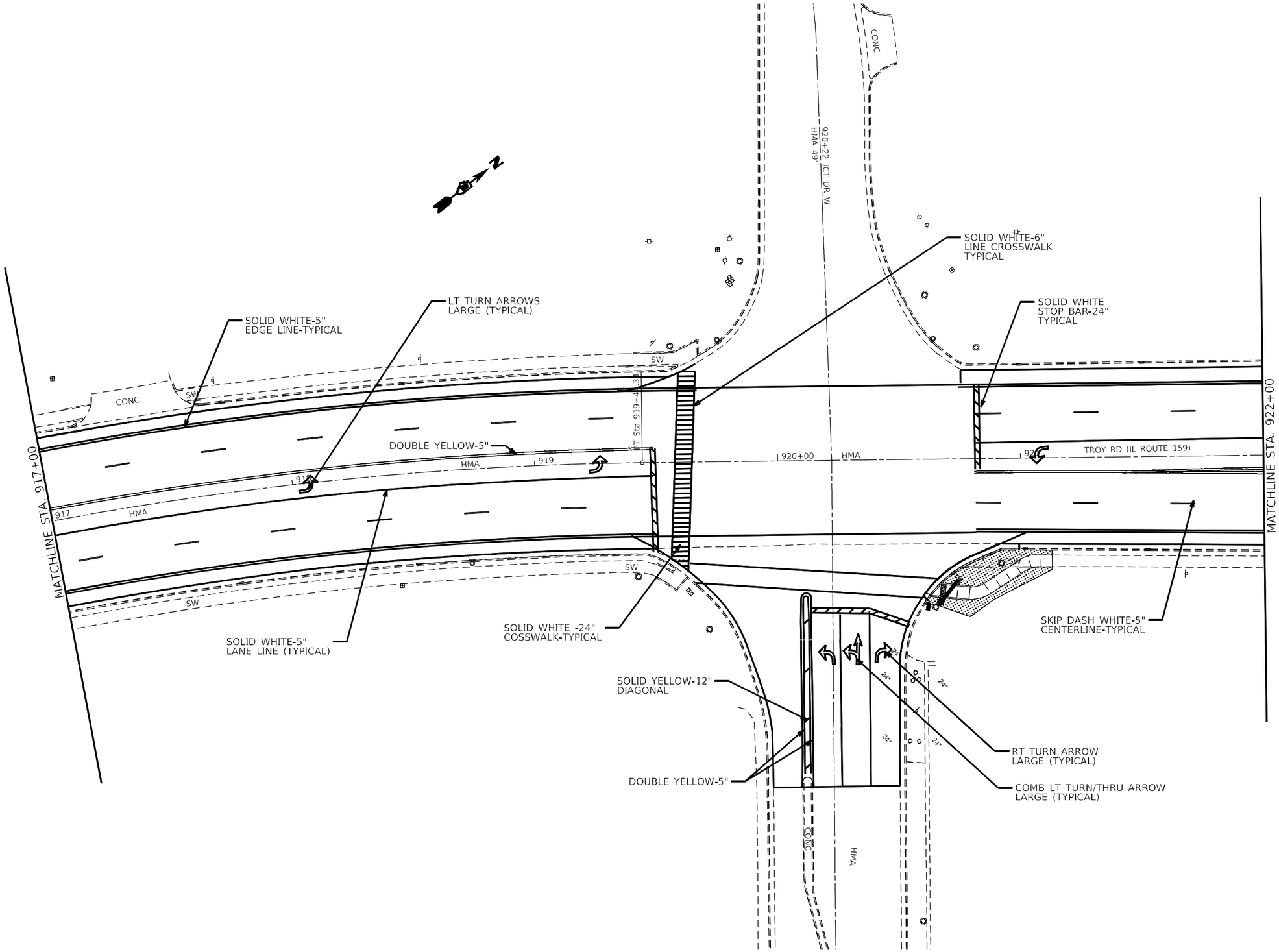
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 58 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(122,122-1,30)RS-4	MADISON	328	238
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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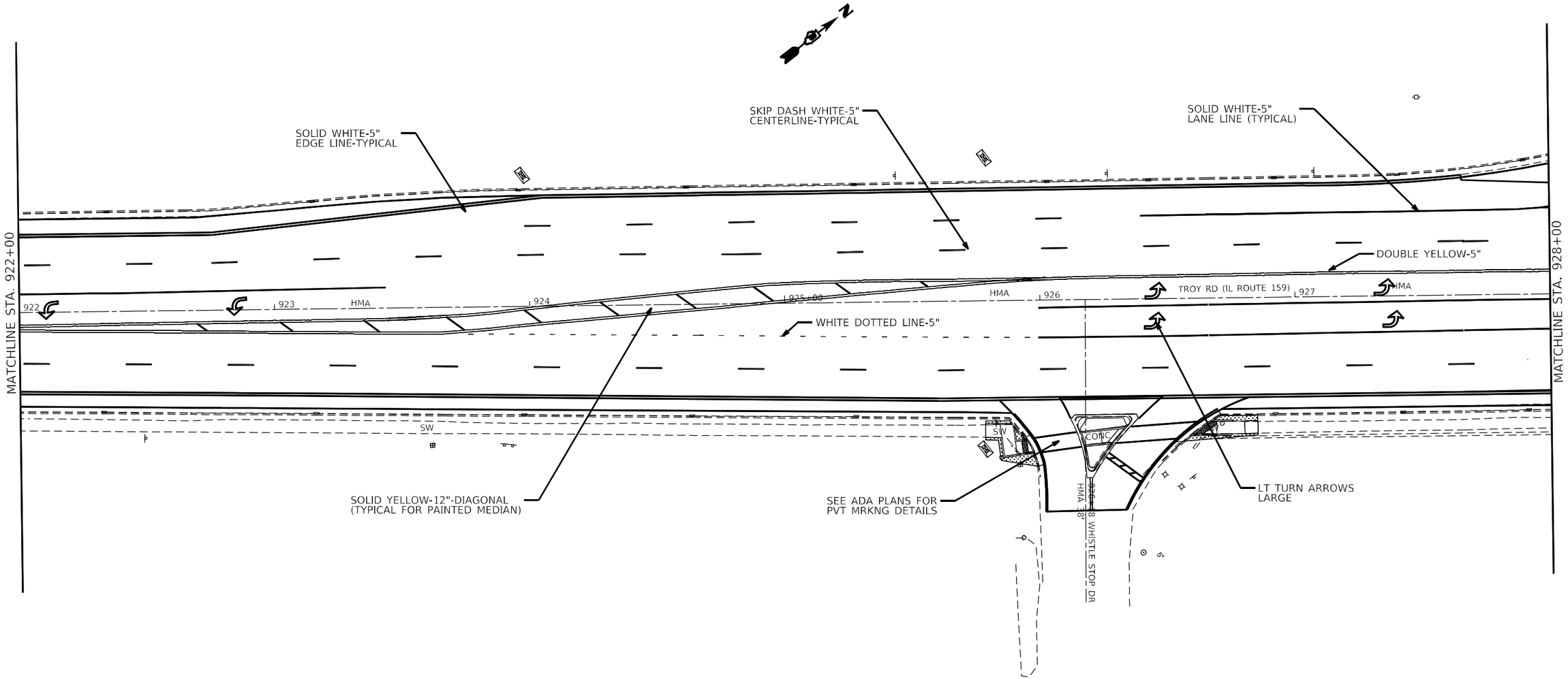
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 59 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	239
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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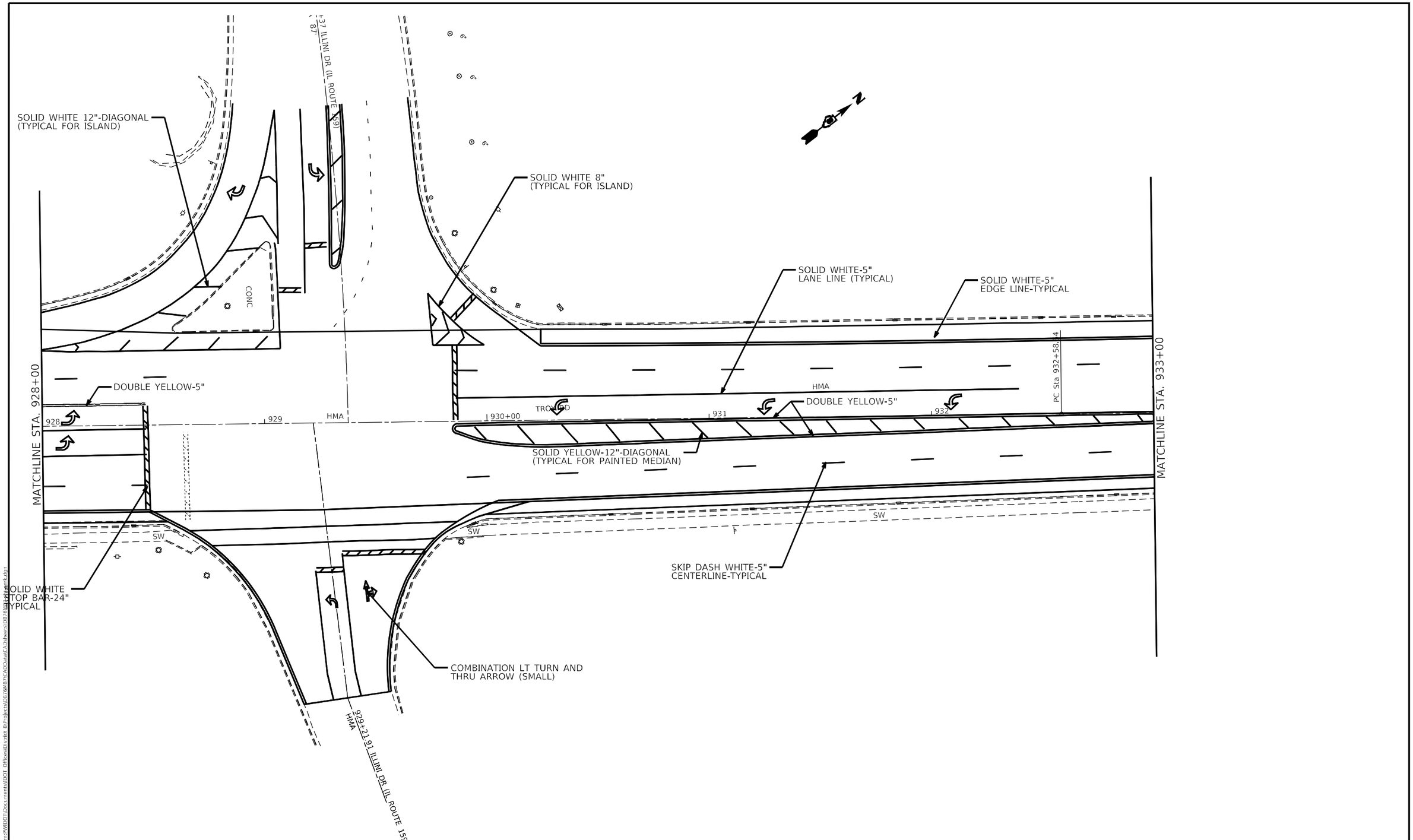
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 60 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	240
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



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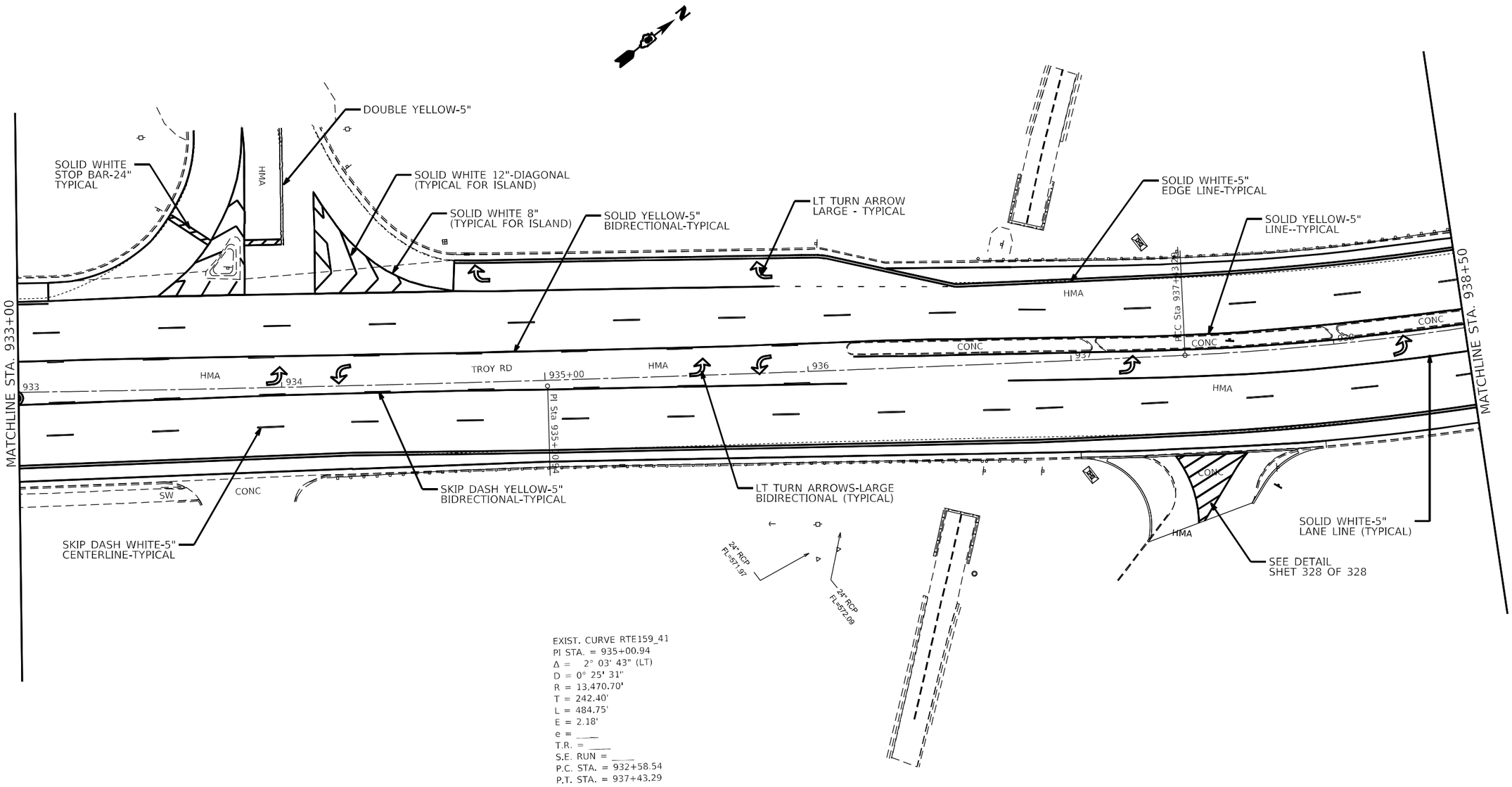
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 61 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	241
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE RTE159_41
PI STA. = 935+00.94
Δ = 2° 03' 43" (LT)
D = 0° 25' 31"
R = 13,470.70'
T = 242.40'
L = 484.75'
E = 2.18'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 932+58.54
P.T. STA. = 937+43.29

MODEL: $MODELNAME$
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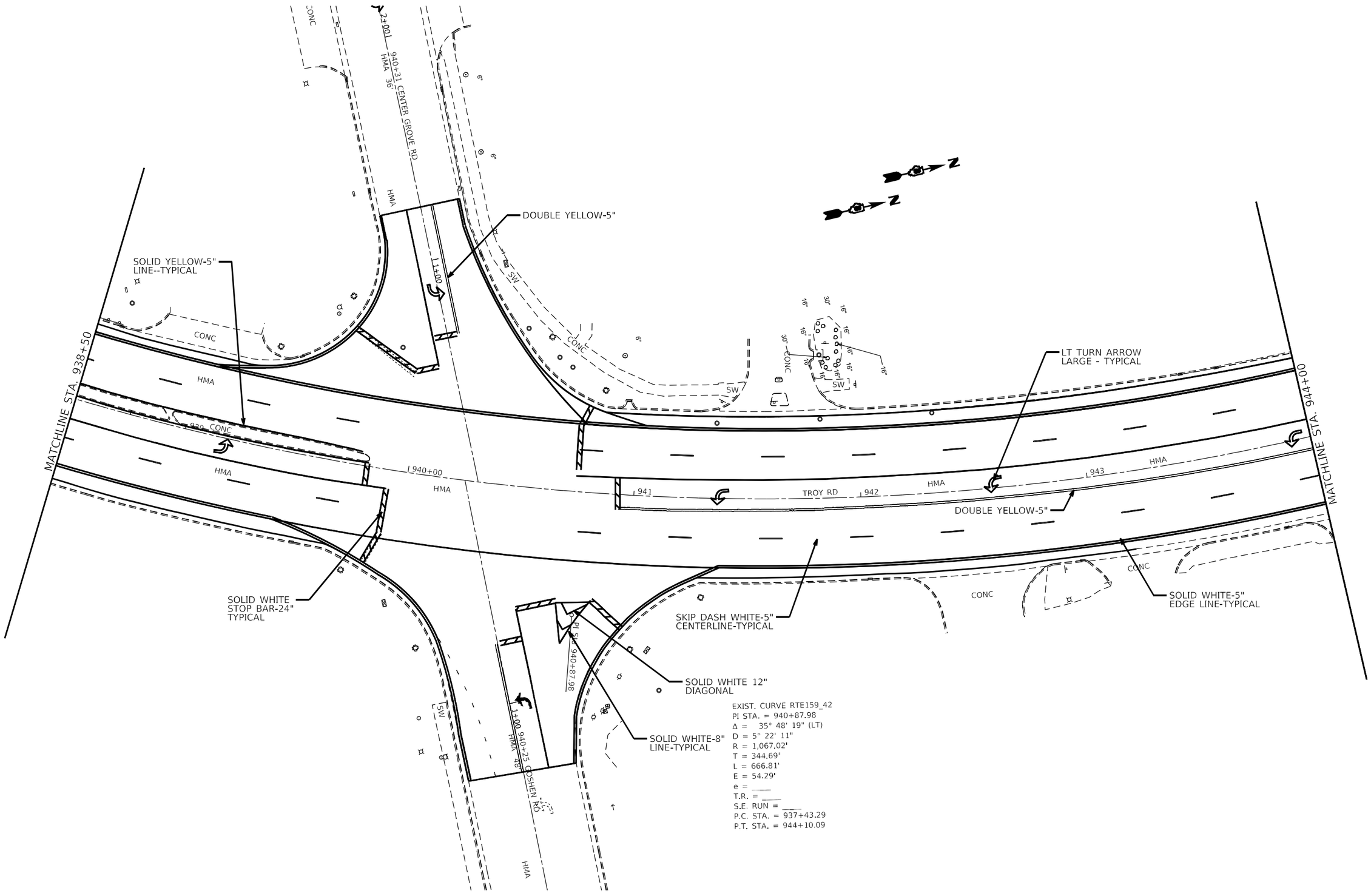
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 62 OF 64 SHEETS | STA. TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	242
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE RTE159_42
PI STA. = 940+87.98
Δ = 35° 48' 19" (LT)
D = 5° 22' 11"
R = 1,067.02'
T = 344.69'
L = 666.81'
E = 54.29'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 937+43.29
P.T. STA. = 944+10.09

MODEL: $MODELNAME$
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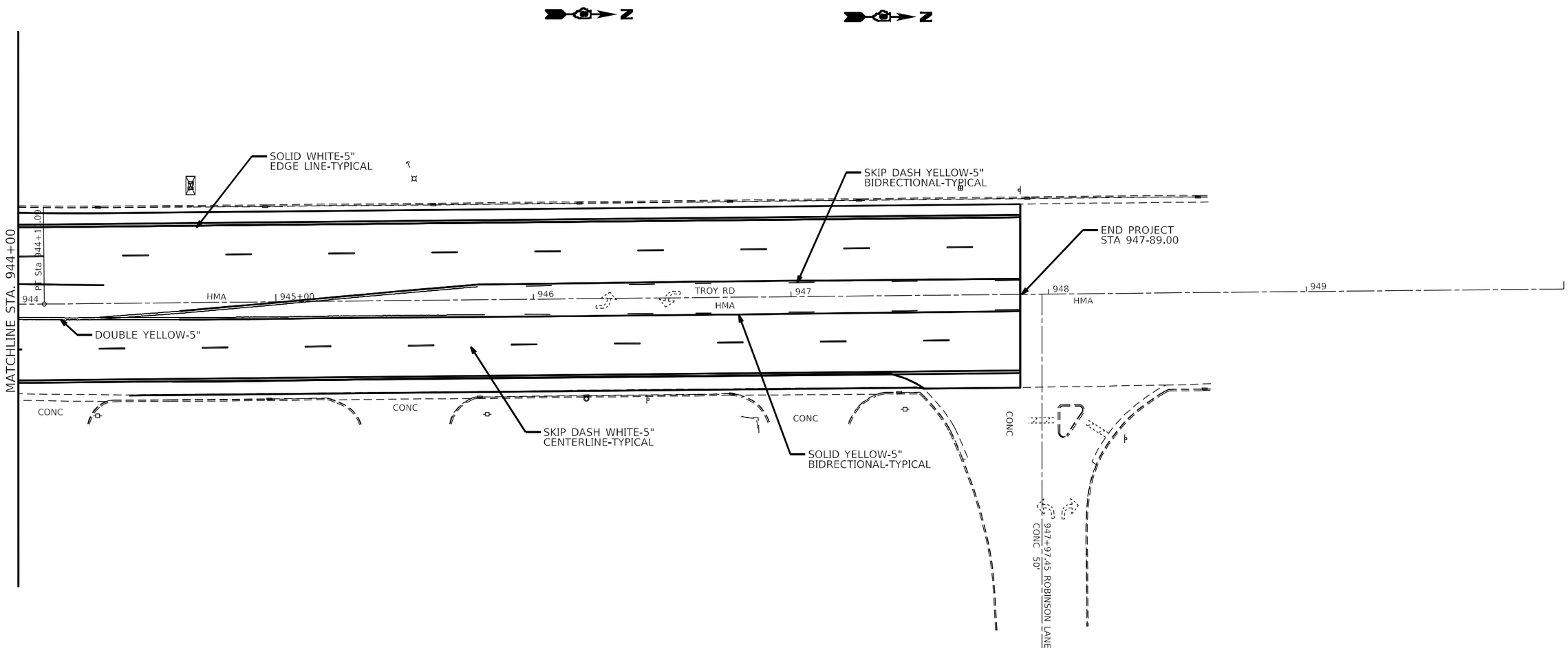
	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 63 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	243
*600/8887		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		



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	DRAWN -	REVISED -	
PLOT SCALE = 40.4587 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

SCALE: 1:20 | SHEET 64 OF 64 SHEETS | STA. | TO STA.

FAP/U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(122,122-1,30)RS-4	MADISON	328	244
*600/8887		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL GENERAL NOTES

1. PRIOR TO COMMENCING CONSTRUCTION OF ANY COMPONENT OF THE PROPOSED TRAFFIC SIGNAL SYSTEM, ALL UNDERGROUND UTILITIES SHALL BE FIELD LOCATED ACCORDING TO ARTICLE 107.39 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED IN THE GENERAL NOTES OF THE PLANS.
2. ALL EXISTING SIGNAL HEADS BEING RELOCATED TO A NEW LOCATION SHALL USE NEW STAINLESS STEEL MOUNTING BANDS.
3. MOUNTING HARDWARE, EXCEPT WHERE NOTED, SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI -SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
4. AT THE INTERSECTIONS OF GLEN CARBON/COTTONWOOD ROAD, JUNCTION DRIVE, AND ILLINI DRIVE, MOUNTING HARDWARE SHALL BE PAINTED BLACK ALUMINUM. ALL BOLTS, SCREWS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI -SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
5. BACK PLATES SHALL BE ABS PLASTIC.
6. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
7. THE PROPOSED LOCATION OF SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.
8. NO SURVEY WAS PERFORMED FOR THE TRAFFIC SIGNAL PLANS. THE TRAFFIC SIGNAL PLANS WERE CREATED USING AERIAL IMAGERY AND FIELD MEASUREMENTS.
9. QUANTITIES SHOWN FOR PROPOSED TRAFFIC SIGNAL HEADS ASSUME THAT THE TRAFFIC SIGNAL CABLE IN CONDUIT WILL BE INSTALLED IN EXISTING CONDUIT AND VARIOUS EXISTING TRAFFIC SIGNAL EQUIPMENT.
10. IF THERE IS NOT SUFFICIENT SLACK TO RELOCATE EXISTING SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, OR PUSH BUTTONS; REMOVE ELECTRIC CABLE FROM CONDUIT QUANTITY HAS BEEN INCLUDED TO REMOVE THE TRAFFIC SIGNAL CABLE ONLY FOR THE RESPECTIVE EQUIPMENT AND INSTALL NEW TRAFFIC SIGNAL CABLE IN THE EXISTING CONDUIT.
11. EXISTING NO. 6, EQUIPMENT GROUNDING CABLE IS NOT INTENDED TO BE REMOVED WITH SIGNAL CABLE WHEN RELOCATING TRAFFIC SIGNAL EQUIPIMENT.
12. EXISTING OVERHEAD SIGN PANELS MAY NEED TO BE ADJUSTED DUE TO THE RELOCATION OF SIGNAL HEADS. ADJUSTING THE EXISTING SIGN PANELS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR SIGNAL HEAD RELOCATION.

STANDARDS FOR TRAFFIC SIGNAL SHEETS

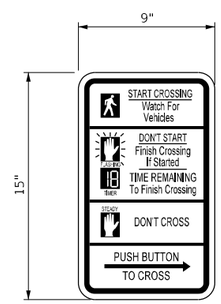
720001	SIGN PANEL MOUNTING DETAILS
873001	TRAFFIC SIGNAL GROUNDING & BONDING
878001	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS

TRAFFIC SIGNAL LEGEND

- PROPOSED SIGNAL HEAD WITH BACKPLATE (SEE HIGHWAY STANDARD 880006)
- PROPOSED SIGNAL HEAD WITHOUT BACKPLATE (SEE HIGHWAY STANDARD 880006)
- EXISTING SIGNAL HEAD WITH BACKPLATE
- EXISTING SIGNAL HEAD WITHOUT BACKPLATE
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- 6' x 50' EXISTING DETECTOR LOOP (SEE HIGHWAY STANDARDS 886001 & 886006)
- EXISTING CONDUIT
- EXISTING MAST ARM
- EXISTING SIGNAL HEAD, PEDESTRIAN
- EXISTING PEDESTRIAN PUSH BUTTON DETECTOR
- EXISTING CONTROLLER
- EXISTING SIGNAL POST
- PROPOSED SIGNAL HEAD, PEDESTRIAN
- PROPOSED APS PEDESTRIAN PUSH BUTTON
- PROPOSED PEDESTRIAN PUSH BUTTON POST

TRAFFIC SIGNAL BILL OF MATERIALS

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES
72000100	SIGN PANEL - TYPE 1	SQ FT	43.2
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	141
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	106
81400100	HANDHOLE	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2866
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1400
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7485
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	155
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6	FOOT	683
87502230	TRAFFIC SIGNAL POST, PAINTED STEEL 8 FT.	EACH	2
87502620	TRAFFIC SIGNAL POST, ALUMINUM 8 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	38
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOU	EACH	13
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	40
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	13
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	25
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	13
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7028
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X8140205	MODIFY EXISTING CONCRETE HANDHOLE	EACH	15
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	48
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	14



ACCESSIBLE PEDESTRIAN SIGNAL SIGN
R10–3e

(B)

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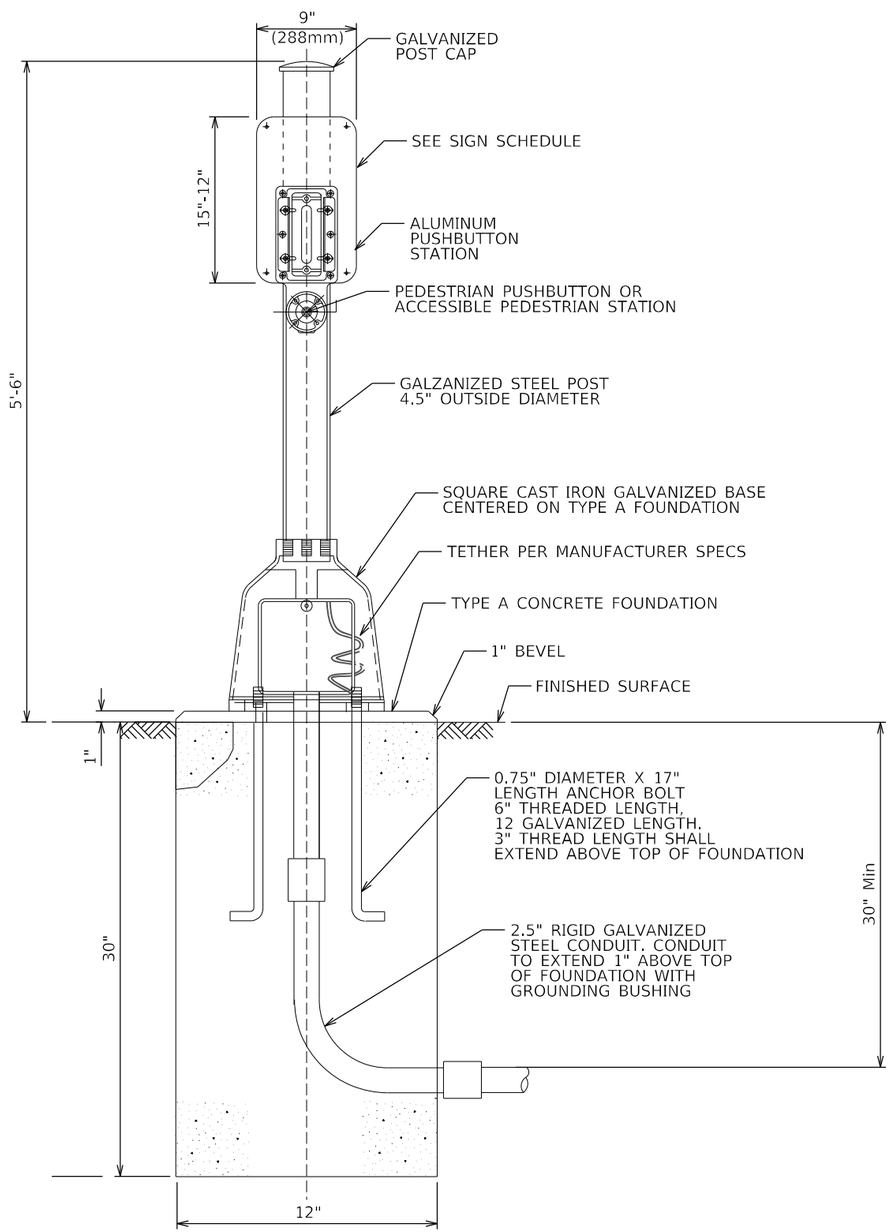
HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = Default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1.30)RS-4	MADISON	328 / 245
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: NTS / SHEET TS 1 OF 31 SHEETS / STA. / TO STA.		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL

INTERSECTION	UNDRGRD C PVC 1 1/2	UNDRGRD C PVC 3	ELCBL C EGRDC 6 1C	ELCBL C SIGNAL 14 2C	ELCBL SIGNAL 14 3C	ELCBL C SIGNAL 14 5C	ELCBL C SIGNAL 14 7C	SH P LED 1F 3S MAM	SH P LED 1F 5S BM	PED SH P LED 1F BM CT	TS BACKPLATE RET-REFL	RELOC EX SIG HEAD
	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
E COUNTRY LN						898		2			2	2
ST. CHARLES DR						798		2			2	2
I-55/70 N JCT						159						2
MARYVILLE TOWN CENTER						934						4
MAIN ST	34		78	1078		732		2		8	2	2
VADALABENE DR	27	101	168	633	433	710		1		4	1	3
IL ROUTE 162						797	155	2	1	8	2	2
GLEN CROSSING RD	8		19	514	425	769		2		6	2	2
I-270 S JCT						970		1			1	3
I-270 N JCT						621		1			1	2
GLEN CARBON /COTTONWOOD RD	31	5	72	256	256	97				8		1
JUNCTION DR	33		322	348	286					4		
ILLINI DR	8		24	37						2		
TOTAL	141	106	683	2,866	1,400	7,485	155	13	1	40	13	25

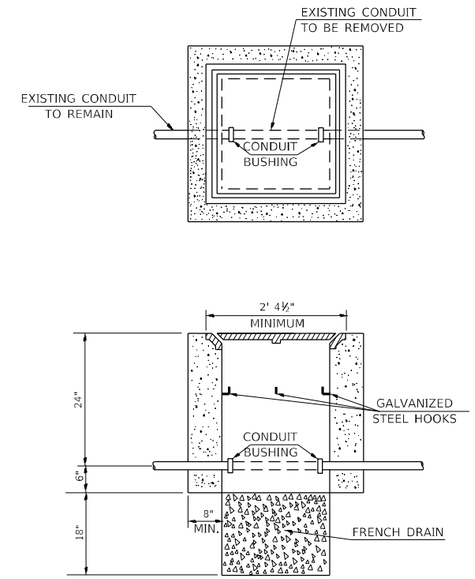
TRAFFIC SIGNAL CONTINUED

INTERSECTION	RELOC EX IS POST	MOD EX CONTR	HANDHOLE	REM ELCBL FR CON	REMOVE EX IS EQUIP	MOD EX CONC HANDHOLE	SIGN PANEL TYPE 1	TS POST A 8	TS POST PS 8	REMOV EX CONC FDN	CONC FDN TY A	ACCESTBL F PED SIGNAL	PED PUSHBUTTON POST
	(EACH)	(EACH)	(EACH)	(FOOT)	(EACH)	(EACH)	(SQ FT)	(EACH)	(EACH)	(EACH)	(FOOT)	(EACH)	(EACH)
E COUNTRY LN		1		424									
ST. CHARLES DR		1		375									
I-55/70 N JCT		1		146									
MARYVILLE TOWN CENTER		1		912	1								
MAIN ST		1		1,481	1	4	7.2				10.0	8	4
VADALABENE DR		1		826	1	3	3.6	2			11.0	4	2
IL ROUTE 162		1		373	1		7.2					8	
GLEN CROSSING RD		1		361	1	1	5.4				2.5	6	1
I-270 S JCT		1		846									
I 270 N JCT		1		491									
GLEN CARBON /COTTONWOOD RD	1	1	1	669	1	1	7.2		2	1	9.0	8	
JUNCTION DR		1		75	1	1	3.6				2.5	4	1
ILLINI DR		1		49	1	1	1.8				2.5	2	1
											0.0		
TOTAL	1	13	1	7,028	8	11	36.0	2	2	1	38	40	9



PEDESTRIAN PUSH-BUTTON POST DETAIL

(NOT TO SCALE)

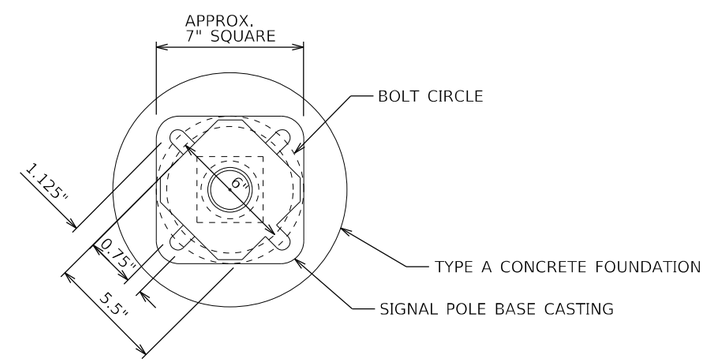


HANDHOLE TO INTERCEPT EXISTING CONDUIT DETAIL

(NOT TO SCALE)

NOTES:

1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



BOLT PATTERN

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HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL CONSTRUCTION DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1.30)RS-4	MADISON	328 / 247
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: NTS / SHEET 1 OF 1 SHEETS / STA. TO STA.		ILLINOIS	FED. AID PROJECT	

[redacted]

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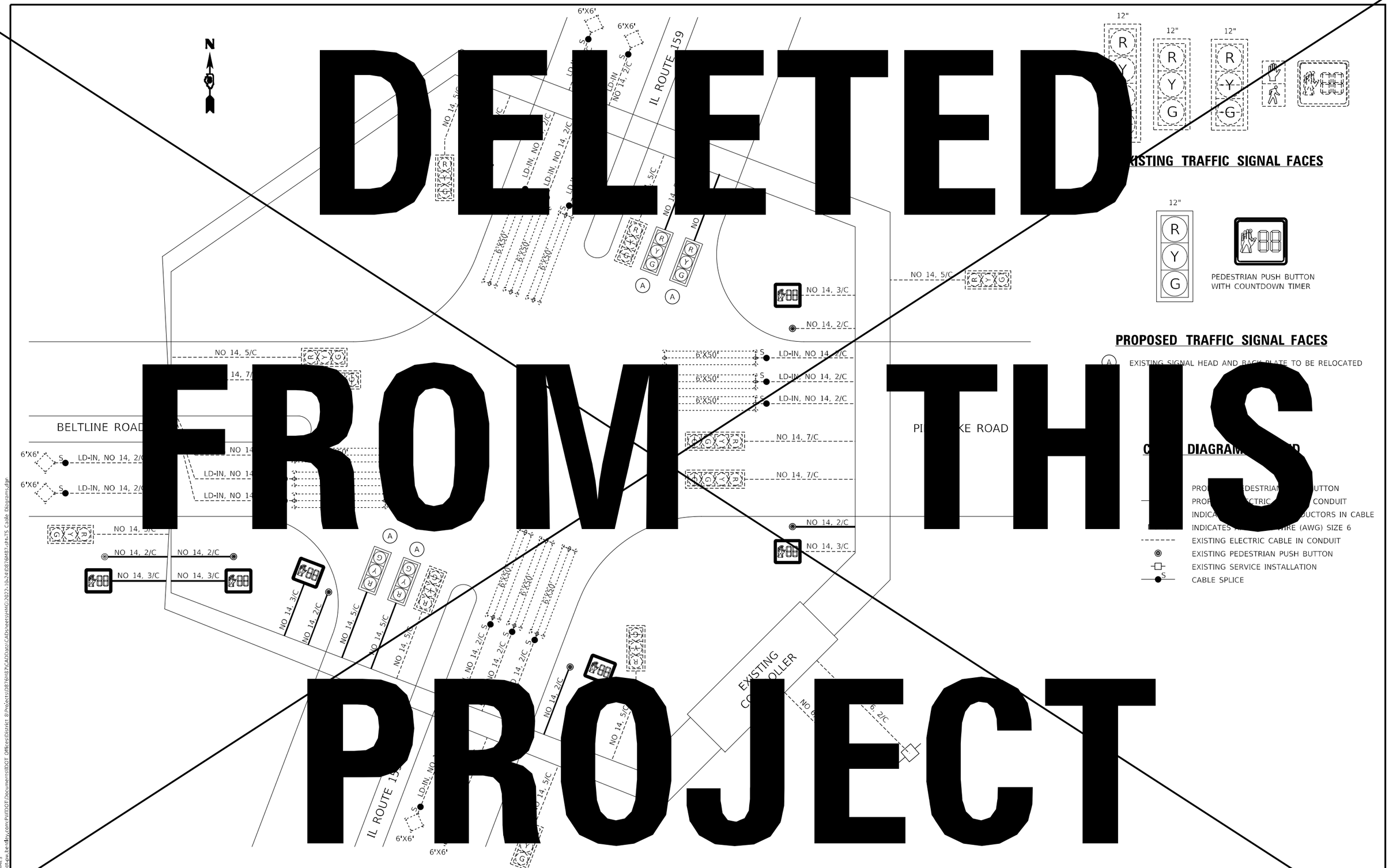
HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = Default	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC SIGNAL PLANS IL ROUTE 159 & BELTLINE ROAD /PINE LAKE ROAD**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1.30)RS-4	MADISON	328 / 248
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: 1" = 10' / SHEET TS 2 OF 31 SHEETS / STA. TO STA.		ILLINOIS	FED. AID PROJECT	

DELETED FROM THIS PROJECT



HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = Default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE DIAGRAM IL ROUTE 159 & BELTLINE ROAD /PINE LAKE ROAD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1.30)RS-4	MADISON	328 / 249
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: NTS / SHEET TS 17 OF 31 SHEETS / STA. / TO STA.			ILLINOIS / FED. AID PROJECT	

MODEL: MODEL NAMES
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FA ROUTE	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
9122	*	MADISON	36	13
STA.	TO STA.			
TYPICAL SECTIONS AND DETAILS				

* 93-00071-00-PV

SIGNAL LEGEND

- EXISTING SIGNAL POST
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING CONTROLLER
- EXISTING HANDHOLE
- EXISTING DETECTOR LOOP
- EXISTING CONDUIT
- EXISTING SERVICE INSTALLATION
- PROPOSED SIGNAL POST
- PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED
- PROPOSED HANDHOLE
- PROPOSED DETECTOR LOOP
- PROPOSED CONDUIT: "T" TRENCH, "P" PUSHED, SIZE SPECIFIED
- GSC GALVANIZED STEEL CONDUIT
- PVCC POLYVINYL CHLORIDE CONDUIT
- UIP USE IN PLACE
- SIGNAL HEAD, PEDESTRIAN
- PUSH BUTTON DETECTOR, PEDESTRIAN
- "LEFT TURN SIGNAL" SIGN (R10-10) (2)
- STREET NAME SIGN
- "LEFT TURN/TURN SIGNAL" SIGN (R3-8) (1)

TRAFFIC SIGNAL FACES
(ALL SIGNALS 12")

PROPOSED CONTROLLER SEQUENCE

PROPOSED OPERATION								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT							—	—
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2	NOT USED	NOT USED

NOTE: FOR PHASES 3 AND 4, THE CIRCULAR GREEN AND THE GREEN ARROW ON SIGNAL FACE (B), SHALL BE DISPLAYED SIMULTANEOUSLY.

* PEDESTRIAN MOVEMENT ON ACTIVATIONN OF PEDESTRIAN PUSHBUTTON ONLY.

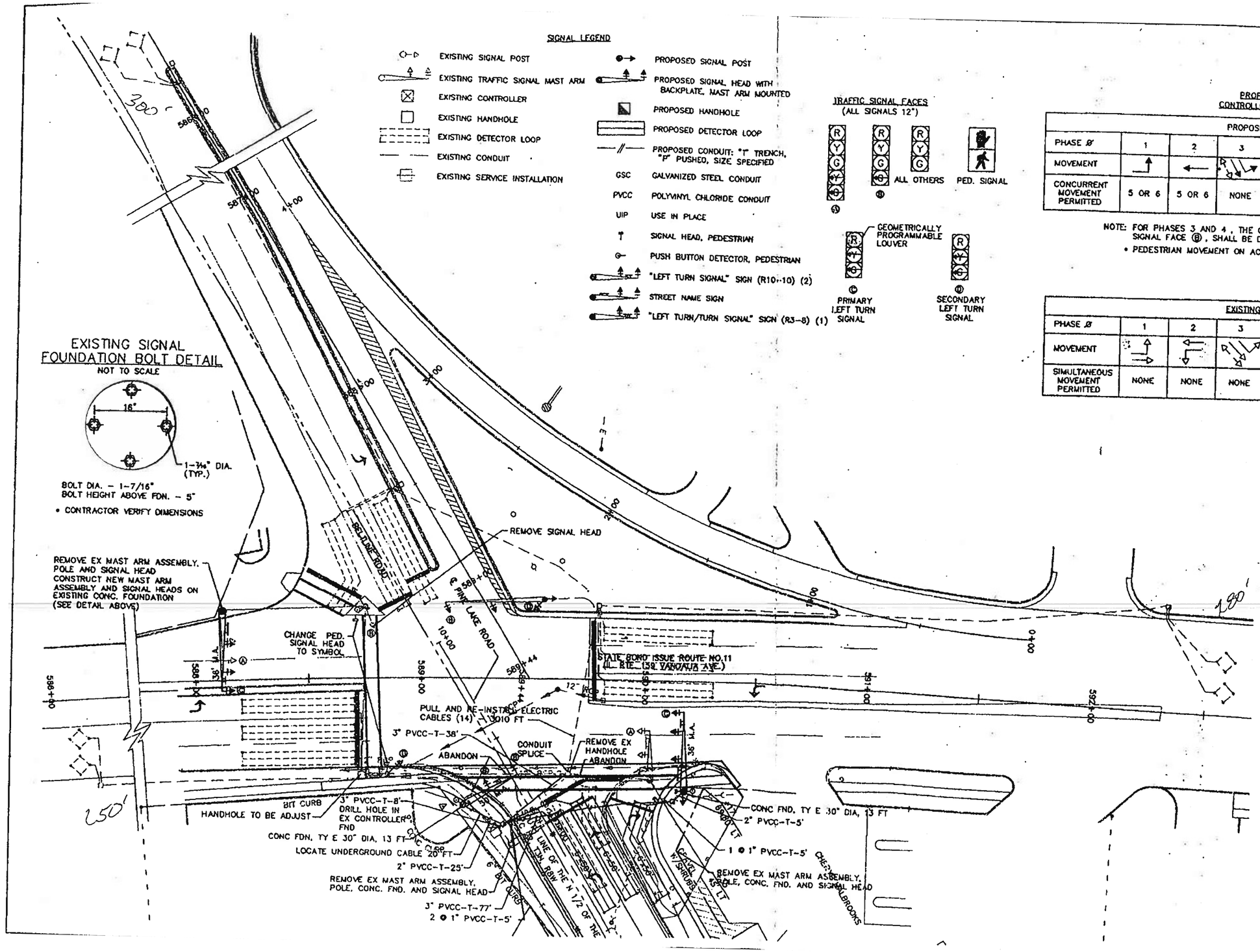
EXISTING SEQUENCE

EXISTING SEQUENCE								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT					—	—	—	—
SIMULTANEOUS MOVEMENT PERMITTED	NONE	NONE	NONE	NONE	NOT USED	NOT USED	NOT USED	NOT USED

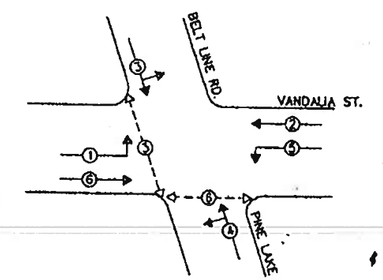
EXISTING SIGNAL FOUNDATION BOLT DETAIL
NOT TO SCALE

BOLT DIA. - 1-7/16"
BOLT HEIGHT ABOVE FDN. - 5"

* CONTRACTOR VERIFY DIMENSIONS



PHASE DESIGNATION DIAGRAM



PINE LAKE ROAD

DATCH ASSOCIATES

TRAFFIC SIGNAL PLAN AND DETAILS

DRAWN BY: RR
CHKD BY: MAS
DATE: 4/4/96

JOB NO.: 93334

SHEET 13 OF 36 SHEETS

MODEL: Default
FILE NAME: H:\8066 IDOT D8B8 FTB194 0598066 010 WO1 IL159\Design\0876487-bdr-AsBuilt.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & BELTLINE ROAD

SCALE: | SHEET OF SHEETS | STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	294A
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

DELETE FROM THIS PROJECT

[redacted]

MODEL: MODELNAMES
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 8\projects\D876482\CADData\CADsheets\HMG\2022-10-24\D876482-sht-TS 3hn.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = Default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS IL ROUTE 159 & CAMELOT DRIVE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1,30)RS-4	MADISON	228 / 250
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: 1" = 10' / SHEET TS 3 OF 31 SHEETS / STA. TO STA.		ILLINOIS	FED. AID PROJECT	

DELETED FROM THIS PROJECT

MODEL: MODELNAME5
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 8\Project\0876M87\CADData\CADsheets\HMG\2022-10-24\0876M87-sht-TS Cable Diagrams.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = Default	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/26/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

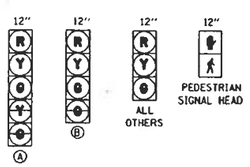
CABLE DIAGRAM
IL ROUTE 159 & CAMELOT DRIVE

SCALE: NTS | SHEET TS 18 OF 31 SHEETS | STA. TO STA.

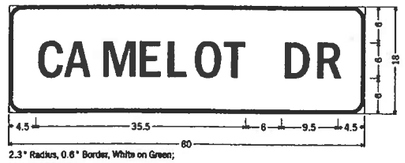
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	251
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 76M41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	30-1TS-1	MADISON	17	14
STA. _____ TO STA. _____				
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



PROPOSED TRAFFIC SIGNAL FACES

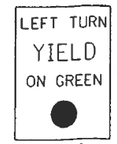


2.3" Radius, 0.6" Border, White on Green;
[CAMELOT DR] D;

STREET NAME SIGN
DETAIL C
NOT TO SCALE

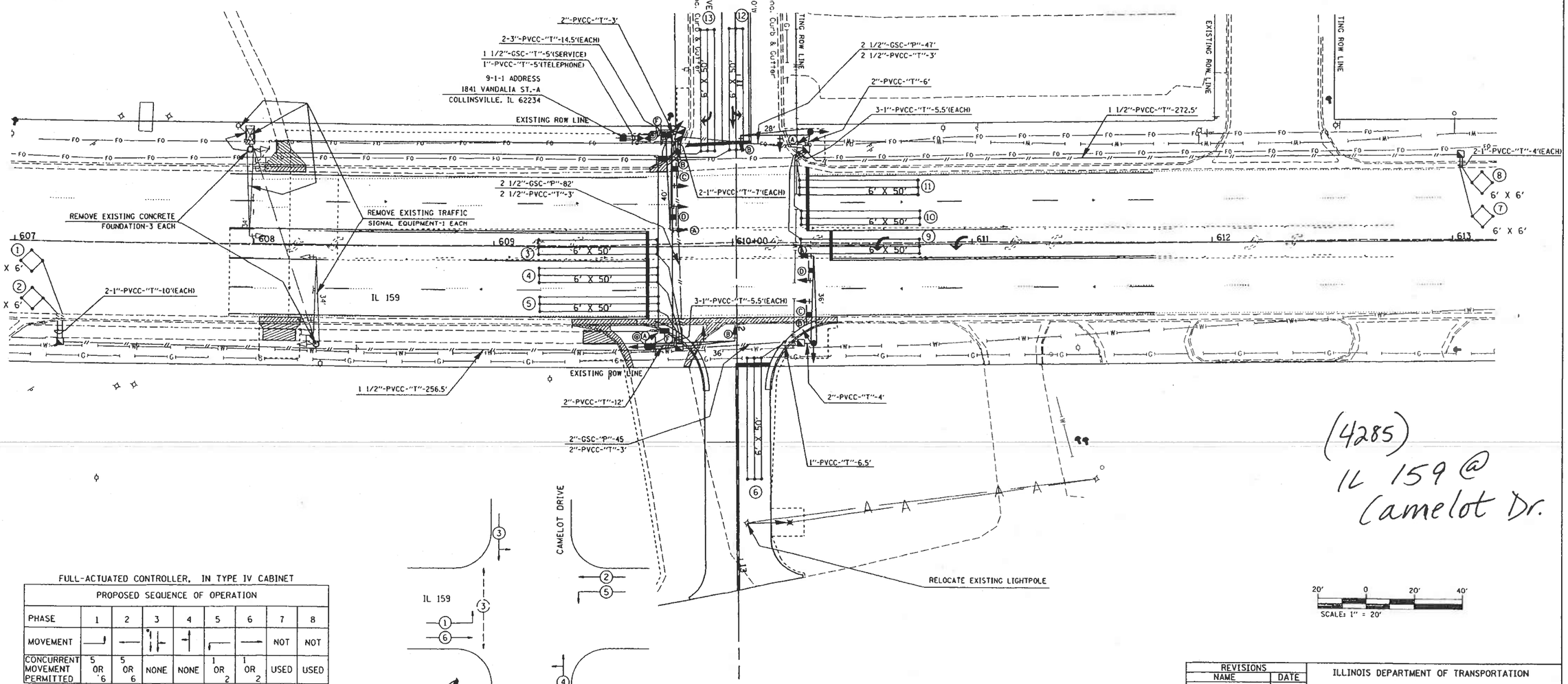
R10-4B
9 x 12

DETAIL D
NOT TO SCALE



R10-12
24 x 30

DETAIL E
NOT TO SCALE

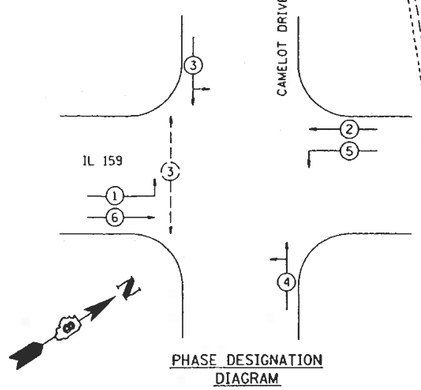


(4285)
IL 159 @
Camelot Dr.

FULL-ACTUATED CONTROLLER, IN TYPE IV CABINET

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT							NOT	NOT
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2	USED	USED

* PERMITTED UPON PEDESTRIAN ACTUATION, ONLY.



PHASE DESIGNATION DIAGRAM

20' 0 20' 40'
SCALE: 1" = 20'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 159 AND CAMELOT DRIVE
TRAFFIC SIGNAL PLAN

FAP 600
SECTION 30-1TS-1
MADISON COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & CAMELOT DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	251A
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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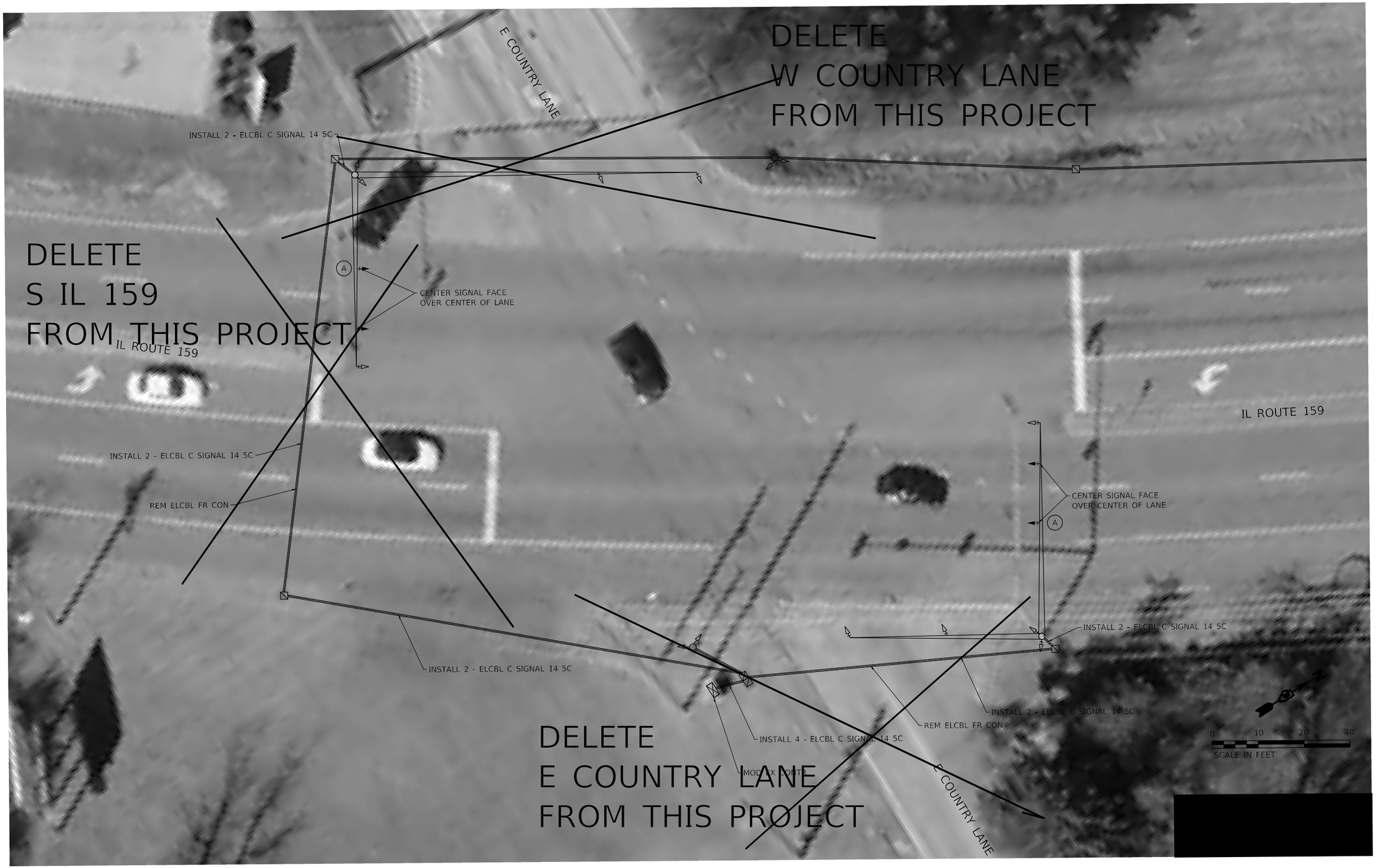

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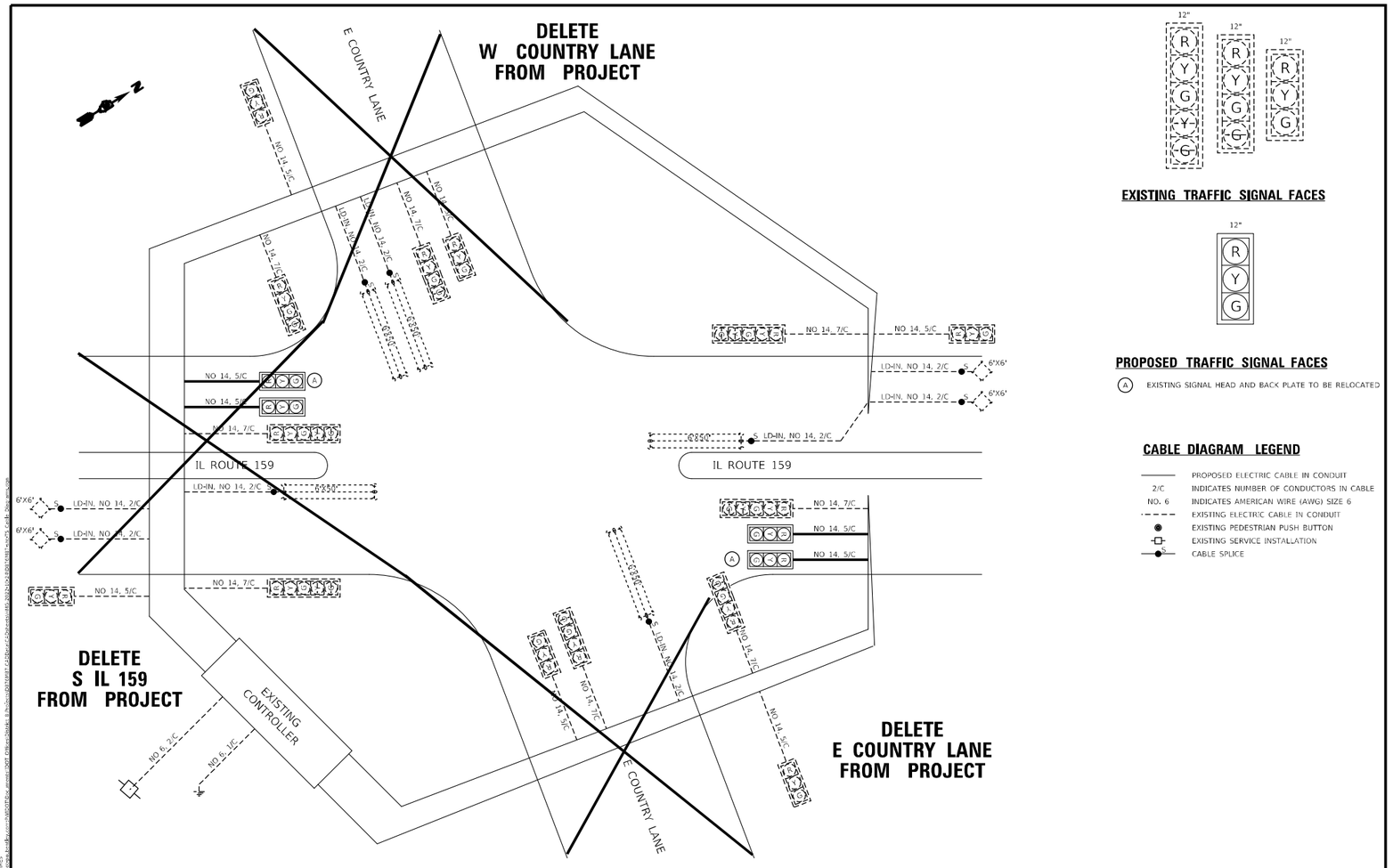
USER NAME = Default	DESIGNED -	REVISED - AMM-102622	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS IL ROUTE 159 & E COUNTRY LANE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			600	(122,122-1,30)RS-4	MADISON	328	252
PLOT SCALE = 20.1005 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87		
PLOT DATE = 10/26/2022	DATE -	REVISED -		SCALE: 1" = 10' SHEET TS 4 OF 31 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



EXISTING TRAFFIC SIGNAL FACES

PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◉	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

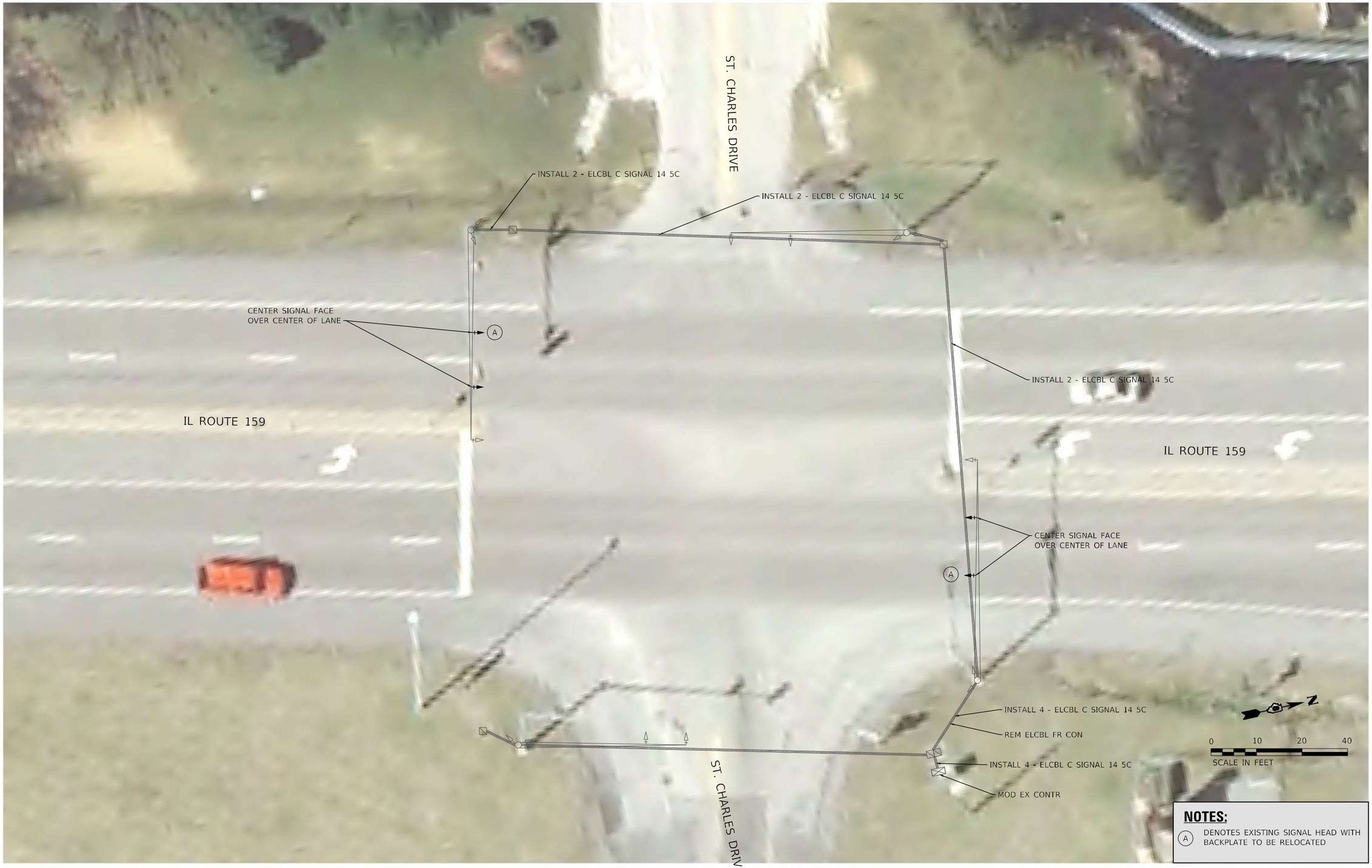
USER NAME = Default	DESIGNED -	REVISED - AMM-102622	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 15.4345 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 10/26/2022	DATE -	REVISED -	

CABLE DIAGRAM
IL ROUTE 159 & E COUNTRY LANE

SCALE: NTS | SHEET TS 19 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,3)RS-4	MADISON	328	255
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

MODEL: MPDGEN.DMS
FILENAME: 0000000_TS19_CABLE DIAGRAM.DGN



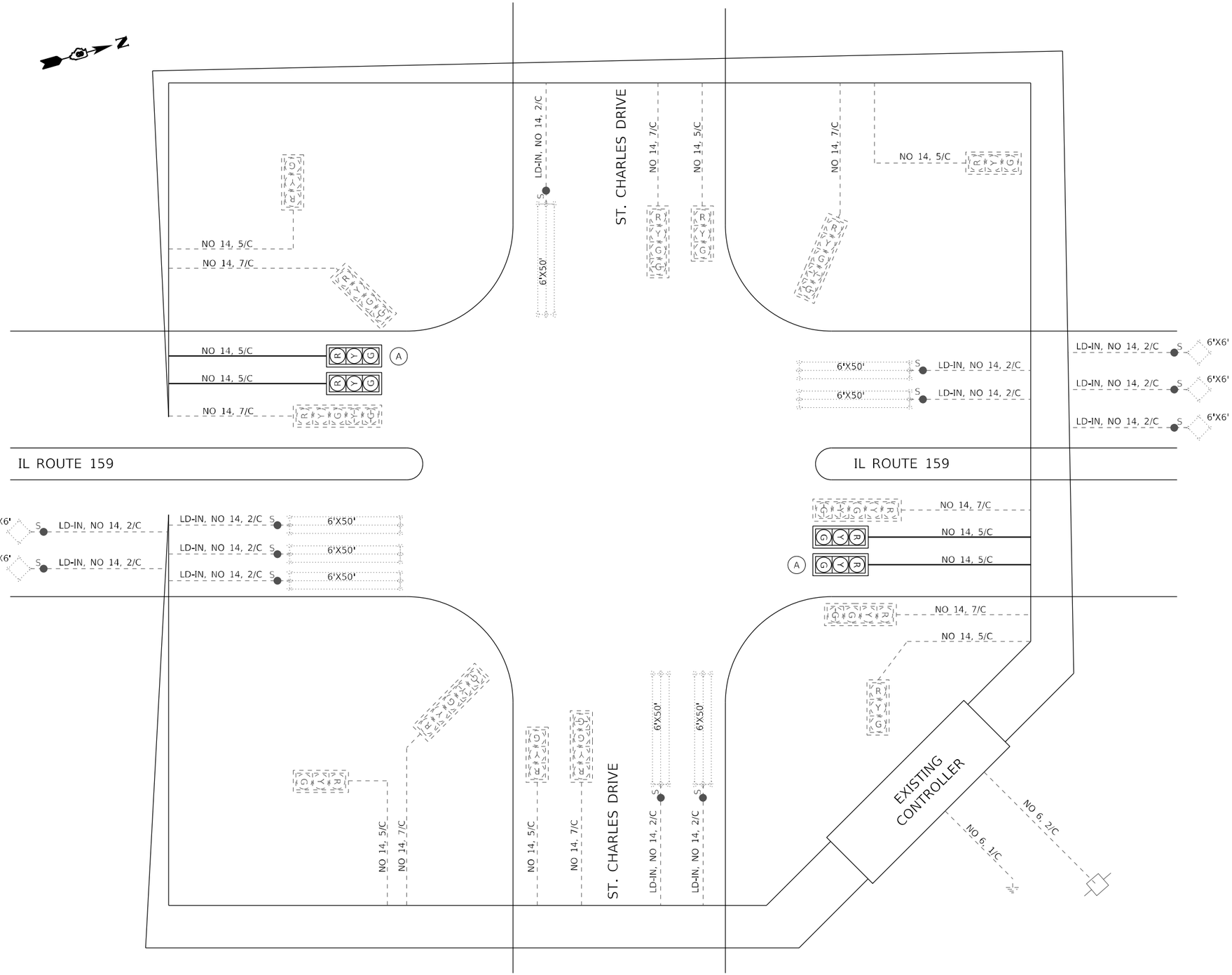
NOTES:

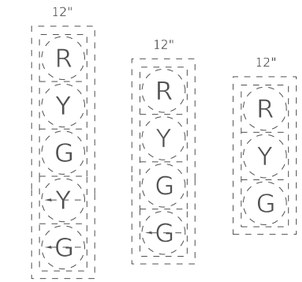
(A) DENOTES EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

MODEL: Sheet 5 - St. Charles
FILE NAME: H:\8249_PTB_199_0328249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-2M.dgn

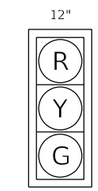
HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS IL ROUTE 159 & ST. CHARLES DRIVE
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: 1" = 10' | SHEET TS 5 OF 31 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	254
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
⊟	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 20 - St. Charles
FILE NAME: H:\8249_PTB_159_0230\8249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

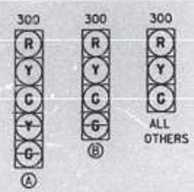
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & ST. CHARLES DRIVE

SCALE: NTS | SHEET TS 20 OF 31 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	255
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

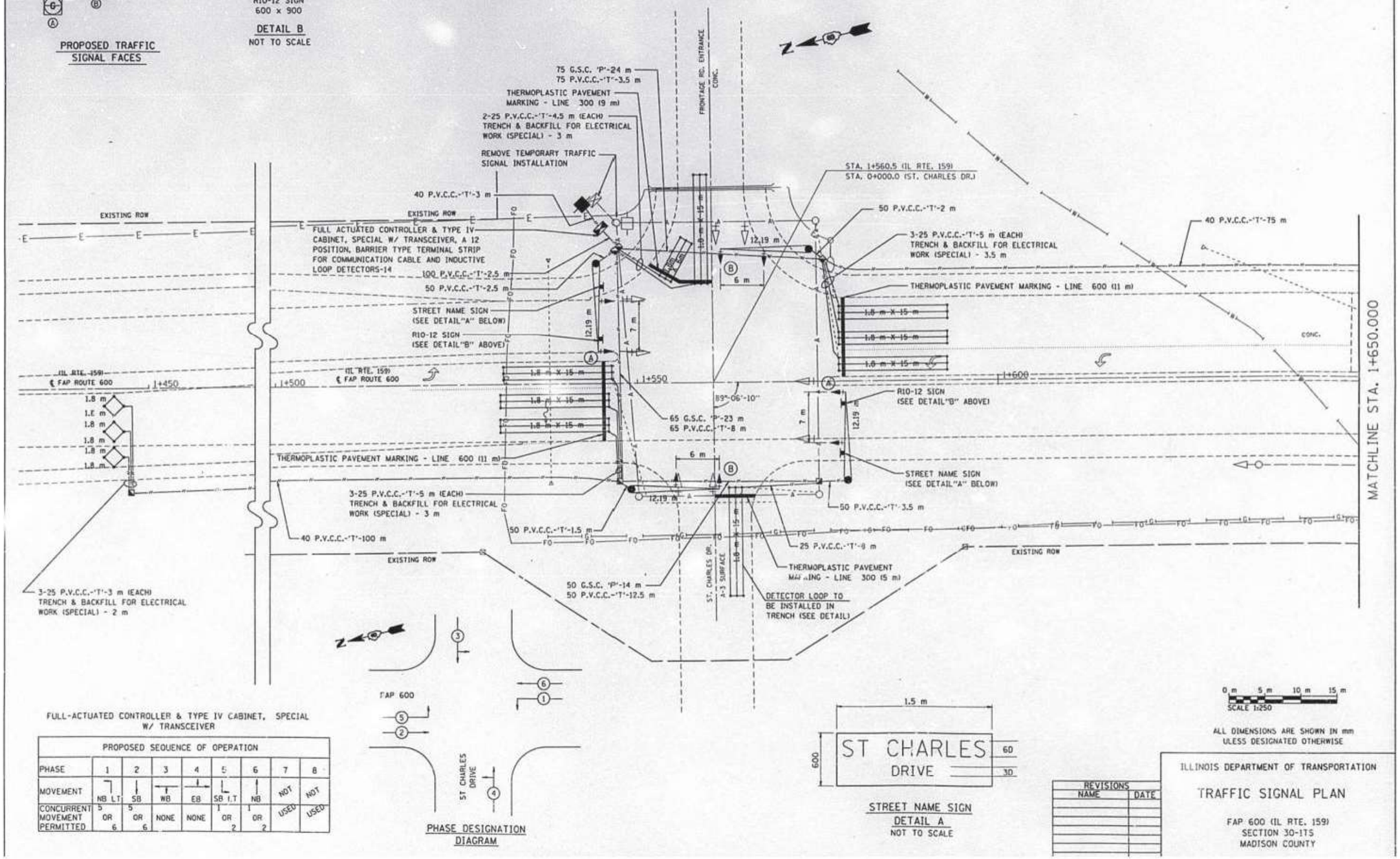
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	30-1TS	MADISON	8	5
STA. 1+440.000	TO STA. 1+650.000			
EXISTING CONDITIONS:				



PROPOSED TRAFFIC SIGNAL FACES

R10-12 SIGN
600 x 900

DETAIL B
NOT TO SCALE



FULL-ACTUATED CONTROLLER & TYPE IV CABINET, SPECIAL W/ TRANSCEIVER

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NB LT	SB	WB	EB	SB LT	NB	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2		

PHASE DESIGNATION DIAGRAM

STREET NAME SIGN DETAIL A
NOT TO SCALE

ALL DIMENSIONS ARE SHOWN IN mm ULESS DESIGNATED OTHERWISE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN

FAP 600 (IL RTE. 159)
SECTION 30-1TS
MADISON COUNTY

MODEL: Default
FILE NAME: H:\8066 IDOT Dist8 PTB194-059\8066 010_WO1 IL159\Design\0876M87-bdr-AsBuilt.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & ST. CHARLES DRIVE

SCALE: | SHEET OF SHEETS | STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	255A
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

NOTES:

(A) DENOTES EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

MODEL: Sheet 6 - I-55-70 N
FILE NAME: H:\8249_PTB_109_0328249_010_MO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-4n.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

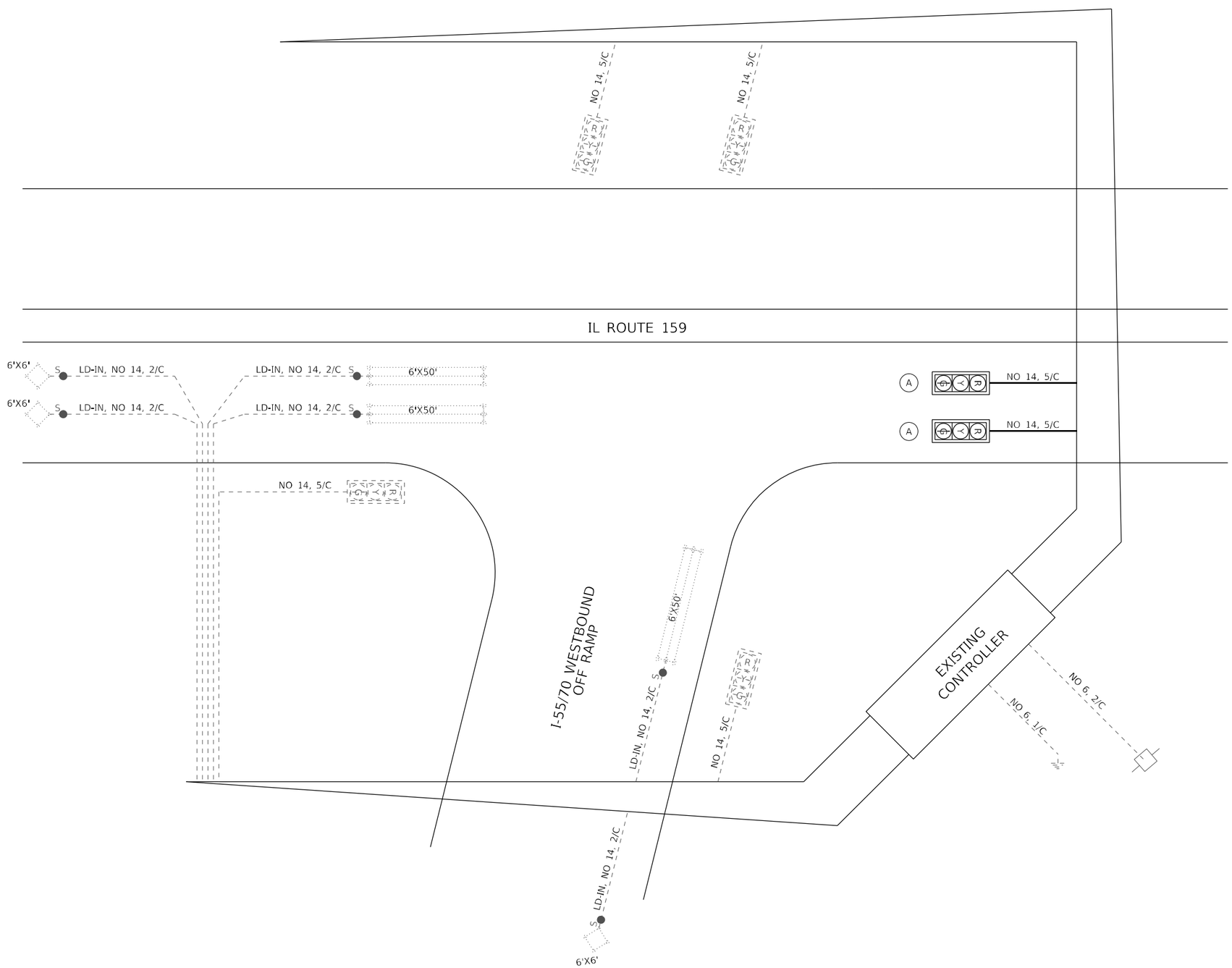
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

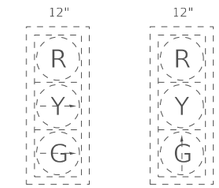
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL ROUTE 159 & I-55 /70 RAMPS NORTH JUNCTION

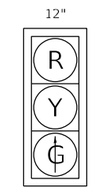
SCALE: 1" = 10' | SHEET TS 6 OF 31 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	256
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 21 - I55 Junction
FILE NAME: H:\6249_PTB_159_03\08249_010_VOI_IL159_Traffic_Signal Upgrades\Cadd Sheets\0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

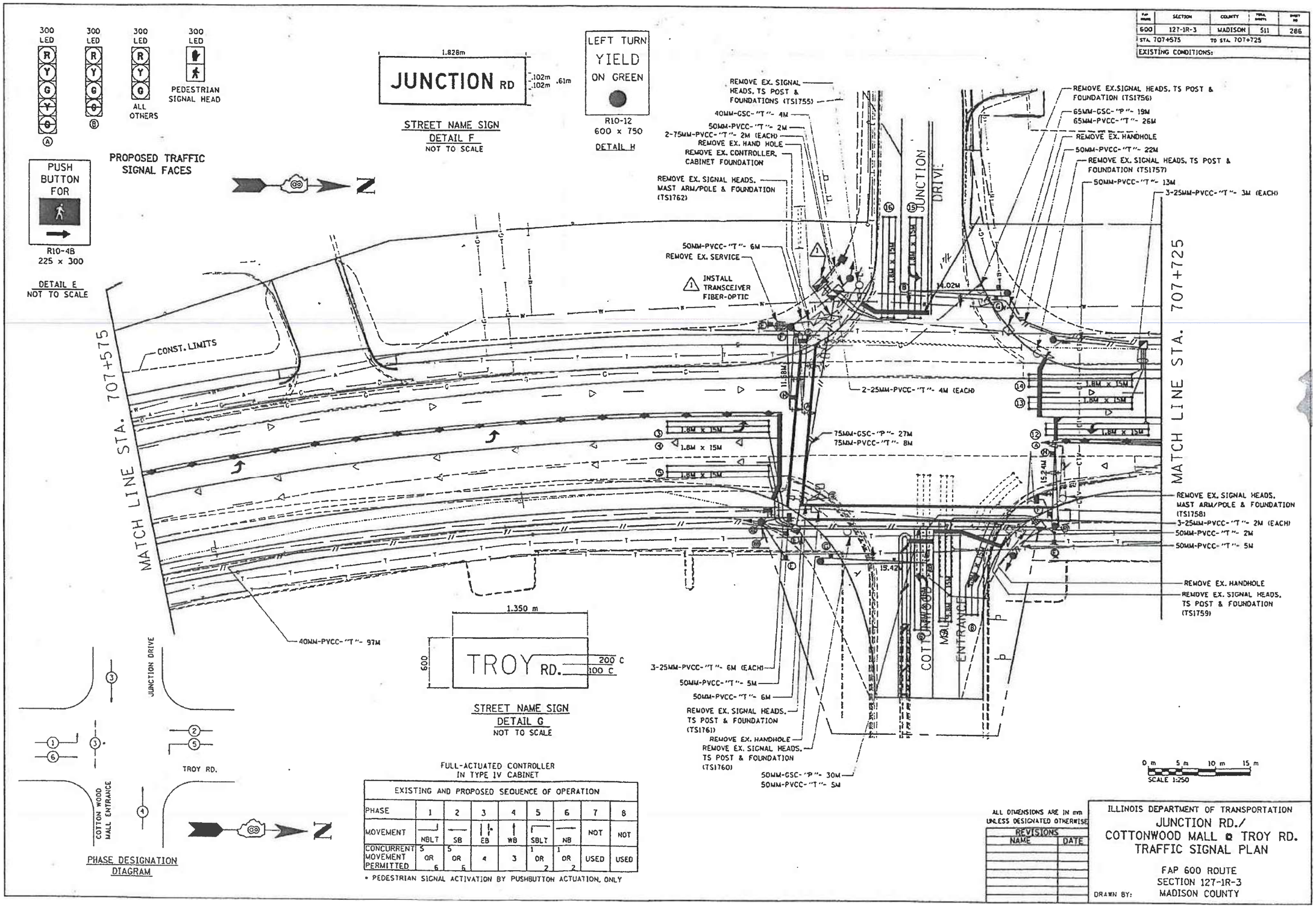
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & I-55/70 RAMPS NORTH JUNCTION

SCALE: NTS | SHEET TS 21 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1.30)RS-4	MADISON	328	257
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	127-1R-3	MADISON	511	286
STA. 707+575		TO STA. 707+725		
EXISTING CONDITIONS:				



FULL-ACTUATED CONTROLLER
IN TYPE IV CABINET

EXISTING AND PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	EB	WB	SBLT	NB	NOT	NOT
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	4	3	1 OR 2	1 OR 2	USED	USED

* PEDESTRIAN SIGNAL ACTIVATION BY PUSHBUTTON ACTUATION, ONLY

ALL DIMENSIONS ARE IN mm UNLESS DESIGNATED OTHERWISE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
JUNCTION RD./
COTTONWOOD MALL @ TROY RD.
TRAFFIC SIGNAL PLAN

FAP 600 ROUTE
SECTION 127-1R-3
MADISON COUNTY

DRAWN BY:

MODEL: Default
FILE NAME: H:\8066 IDOT Dist8 PTB194 059\8066_010_WO1_IL159\Design\D876M87-sht-AsBuiltJun.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

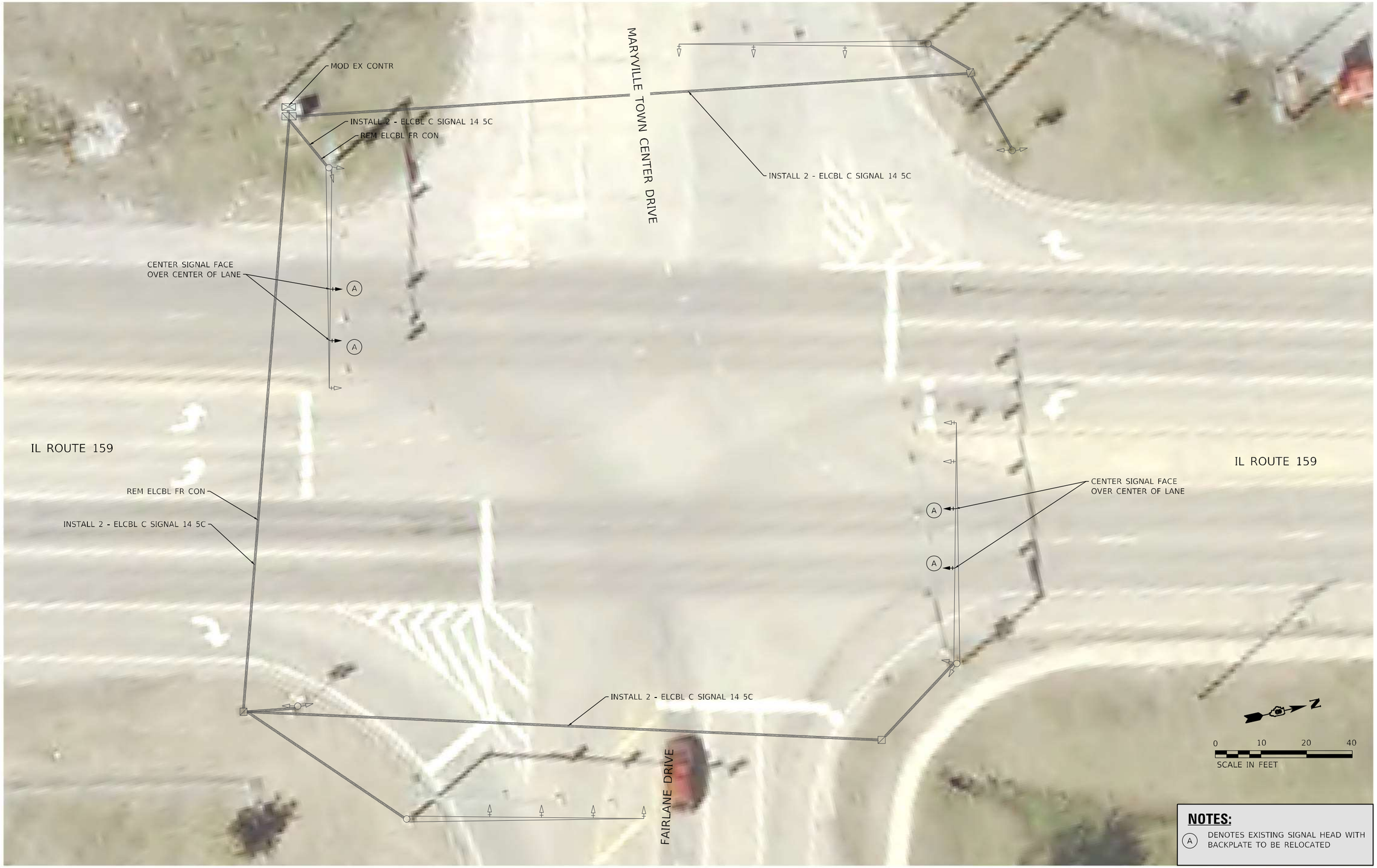
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & I-55/70 N JUNCTION

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	257A
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

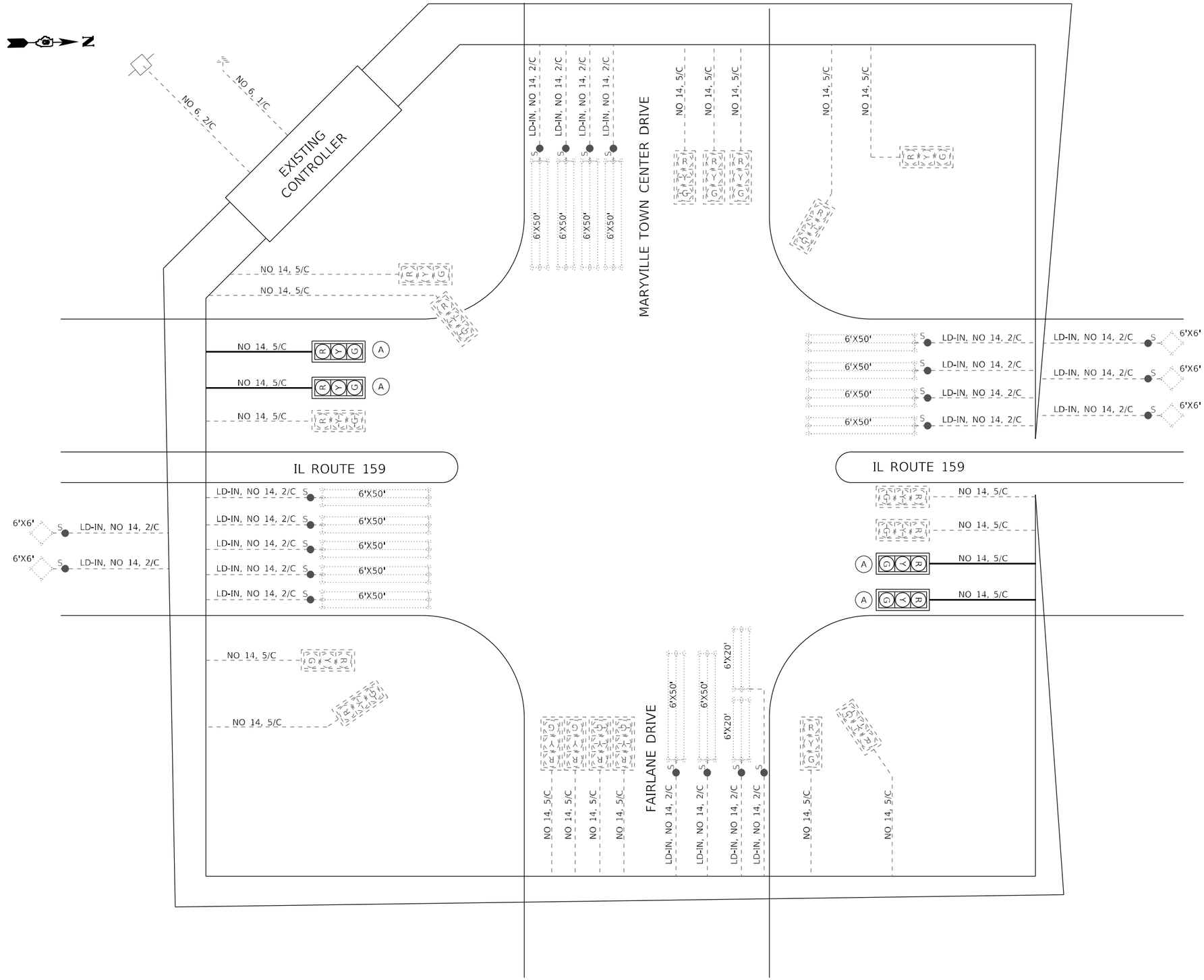


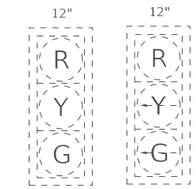
NOTES:

(A) DENOTES EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

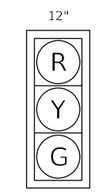
MODEL: Sheet 7 - Maryville Town Center
FILE NAME: H:\6249_PTB_199_0320\249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-1k.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC SIGNAL PLANS**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		**IL ROUTE 159 & MARYVILLE TOWN CENTER DRIVE /FAIRLANE DRIVE**	600	(122,122-1.30)RS-4	MADISON	328	258
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87		
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: 1" = 10' SHEET TS 7 OF 31 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 22 - Town Center
FILE NAME: H18249_PTB_199_0318249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\D876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & MARYVILLE TOWN CENTER DRIVE /FAIRLANE DRIVE

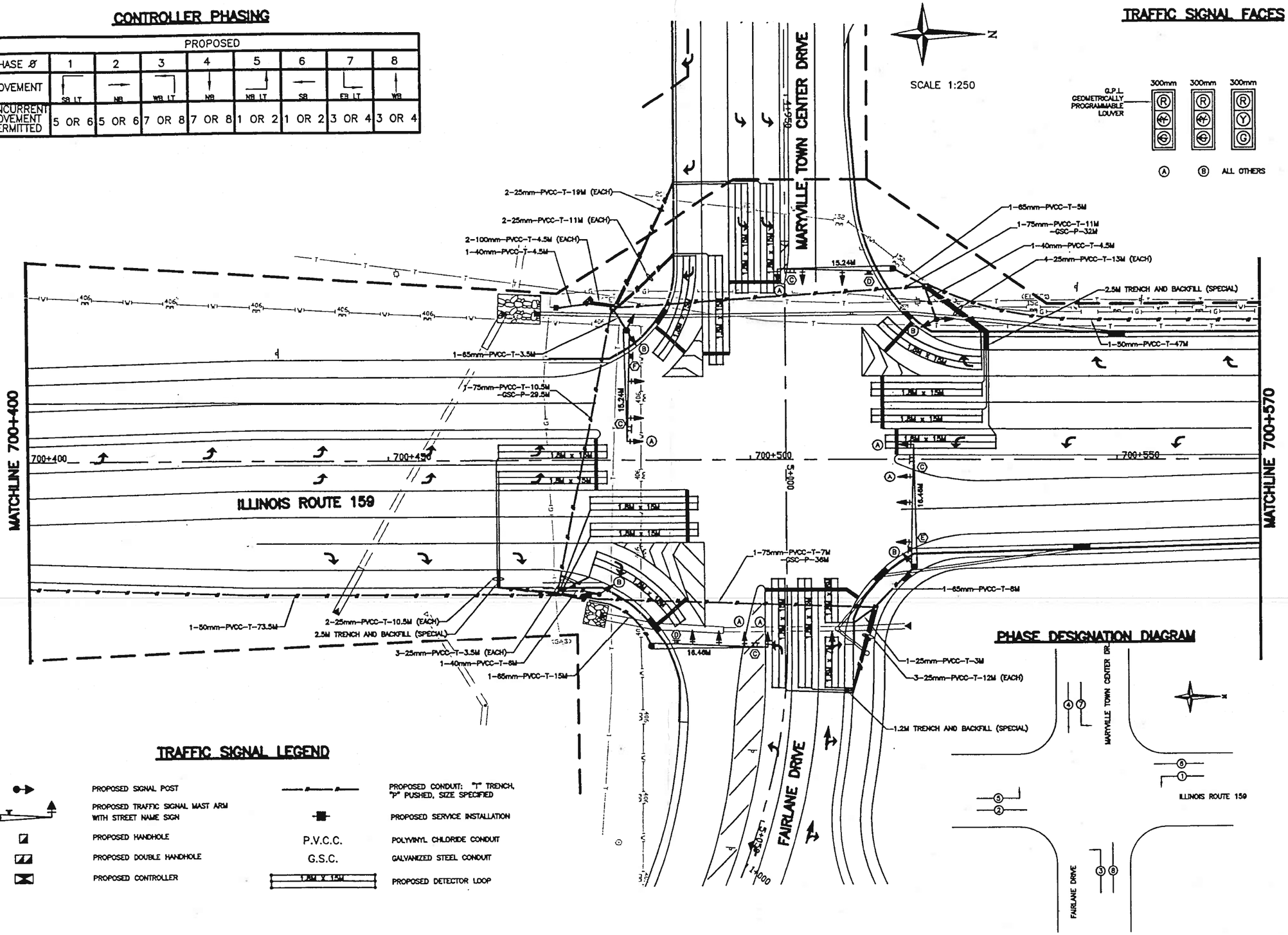
SCALE: NTS | SHEET TS 22 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1.30)RS-4	MADISON	328	259
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

CONTROLLER PHASING

PROPOSED								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT	SB LT	NB	WB LT	NB	NB LT	SB	EB LT	WB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

TRAFFIC SIGNAL FACES



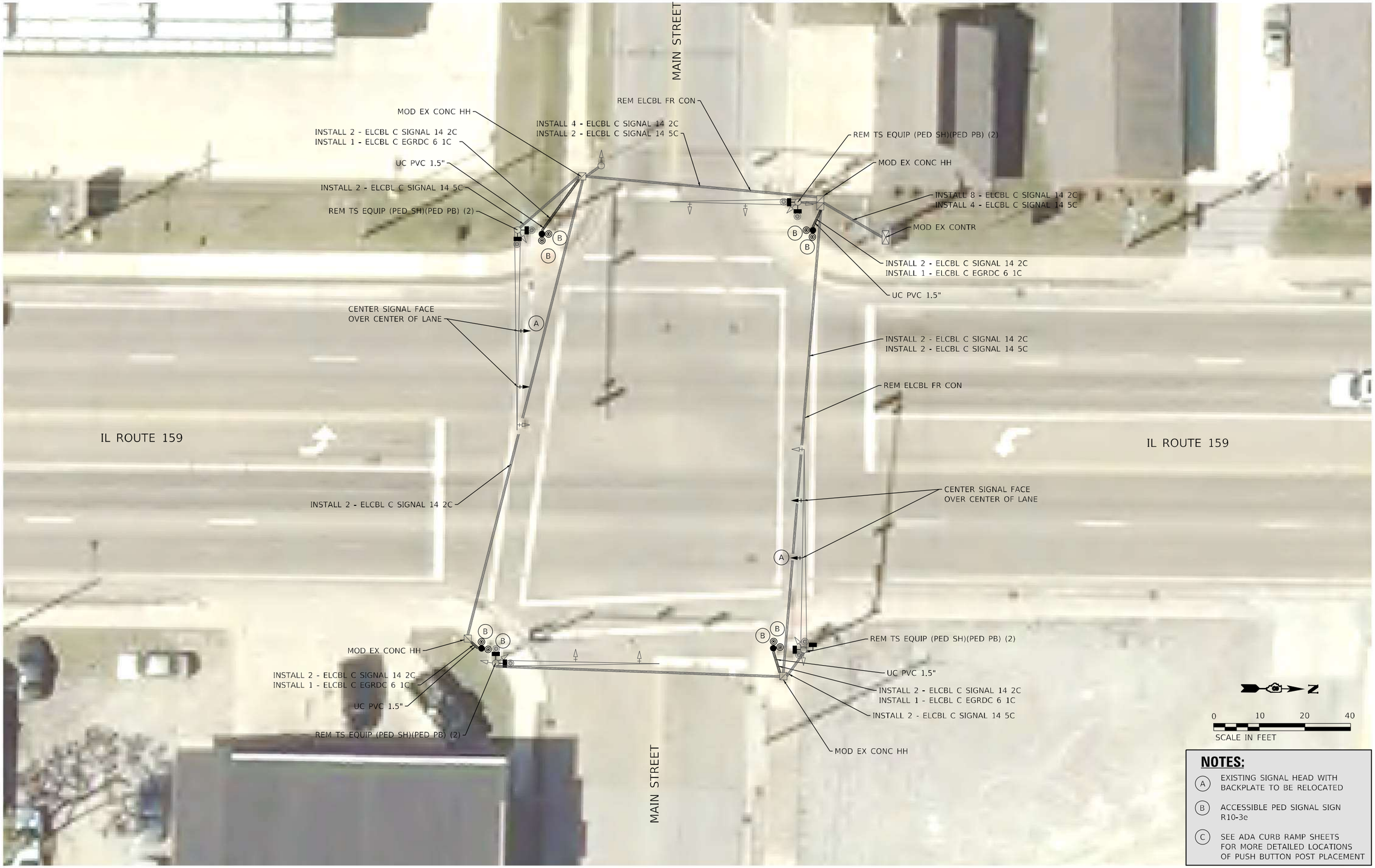
PHASE DESIGNATION DIAGRAM

TRAFFIC SIGNAL LEGEND

- PROPOSED SIGNAL POST
- PROPOSED TRAFFIC SIGNAL MAST ARM WITH STREET NAME SIGN
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONTROLLER
- PROPOSED CONDUIT: "T" TRENCH, "P" PUSHED, SIZE SPECIFIED
- PROPOSED SERVICE INSTALLATION
- P.V.C.C. — POLYVINYL CHLORIDE CONDUIT
- G.S.C. — GALVANIZED STEEL CONDUIT
- 1.8M X 15M — PROPOSED DETECTOR LOOP

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS BUILTS IL ROUTE 159 & MARYVILLE TOWN CENTER DRIVE/FAIRLANE DRIVE	FAU RTE 8887	SECTION (122,122-1.30)RS-4
		DRAWN -	REVISED -			COUNTY MADISON	TOTAL SHEETS 328 / SHEET NO. 259A
	PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 76M87	
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: / SHEET OF SHEETS / STA. / TO STA.	ILLINOIS	FED. AID PROJECT

MODEL: Default
FILE NAME: H:\8066 IDOT Oakb PTB194 059\8066 010_WO1_IL159\Design\0876487\adr-AsBuilt-Jon.dgn



NOTES:

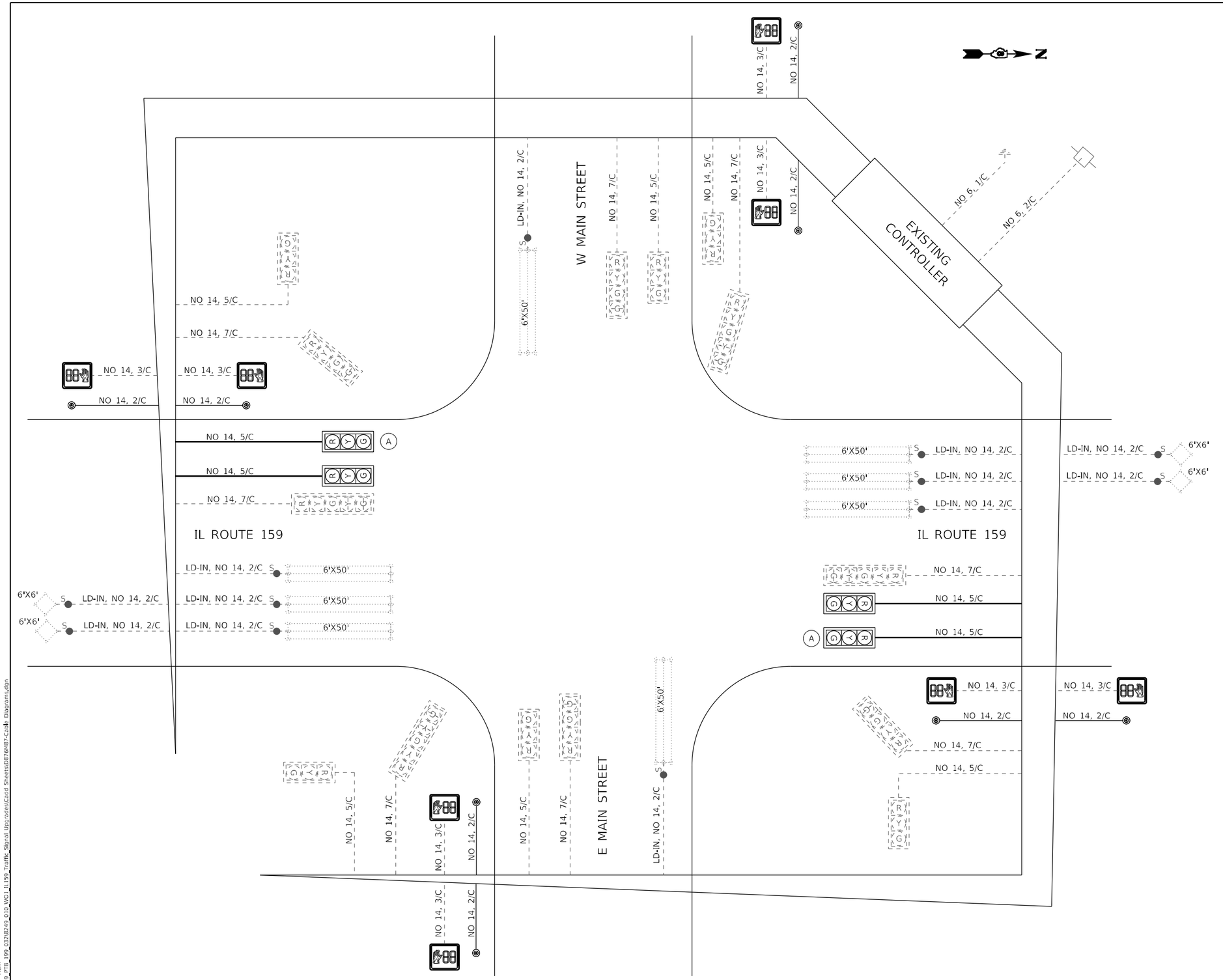
(A) EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

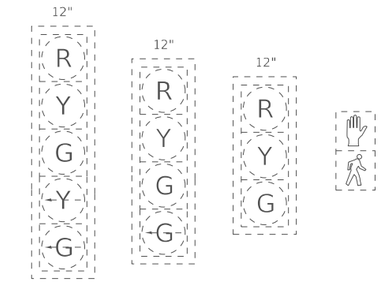
(B) ACCESSIBLE PED SIGNAL SIGN R10-3e

(C) SEE ADA CURB RAMP SHEETS FOR MORE DETAILED LOCATIONS OF PUSH BUTTON POST PLACEMENT

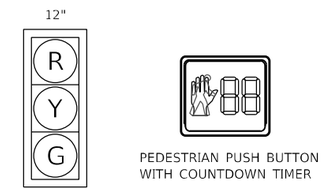
MODEL: Sheet 8 - Main
FILE NAME: H:\8249_PTB_199_03\8249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-4h.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS IL ROUTE 159 & MAIN STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1.30)RS-4	MADISON	328 / 260
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: 1" = 10' / SHEET TS 8 OF 31 SHEETS / STA. TO STA.		ILLINOIS	FED. AID PROJECT	





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

◎	PROPOSED PEDESTRIAN PUSH BUTTON
———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●— S	CABLE SPLICE

MODEL: Sheet 23 - Main
FILE NAME: H18249_PTB_199_03\18249_010_WO1_IL159_Traffic_Signal_Upgrades\Card Sheets\0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelnoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & MAIN STREET

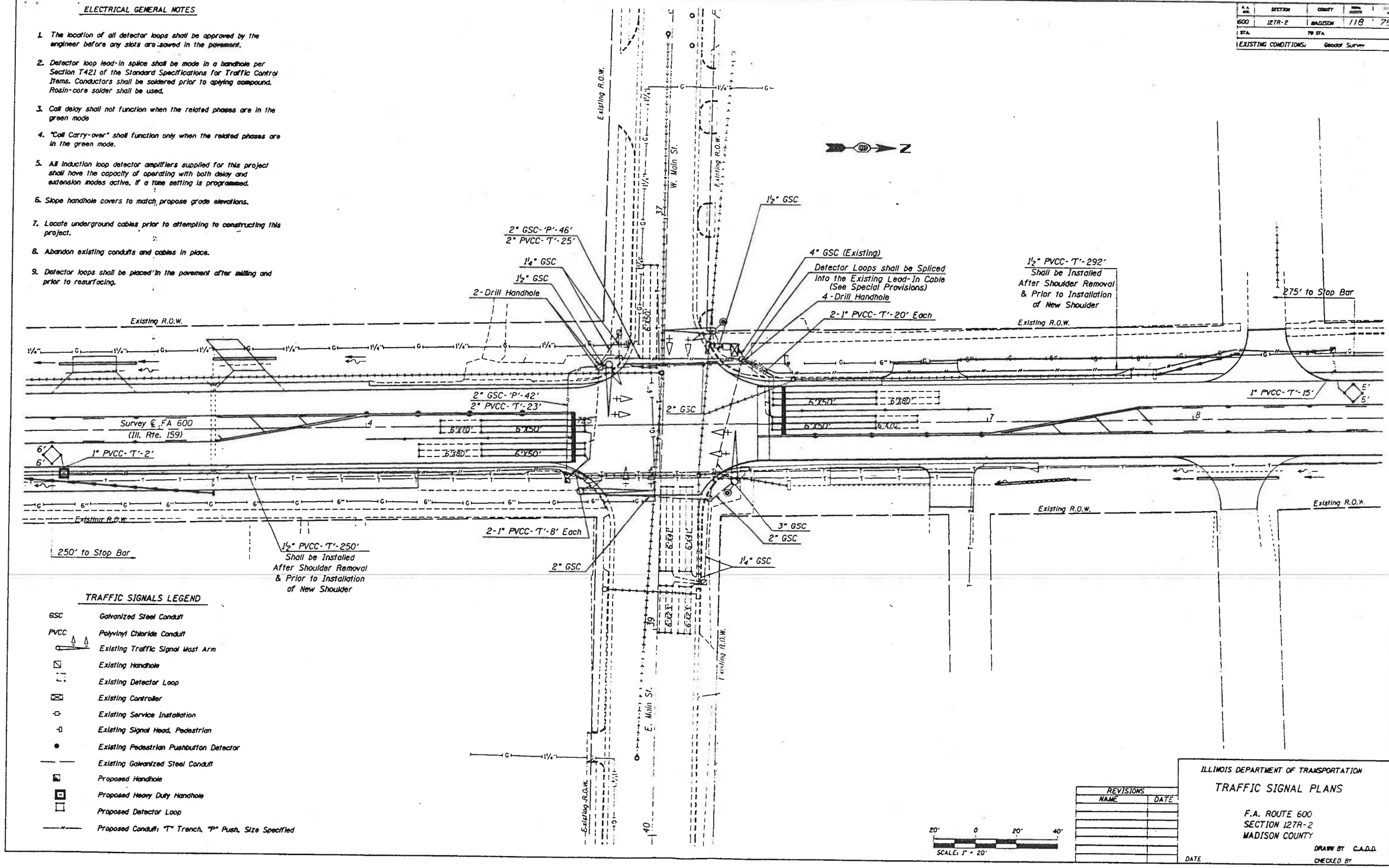
SCALE: NTS | SHEET TS 23 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	261
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

A.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	127R-2	MADISON	118	72
STA.		TO STA.		
EXISTING CONDITIONS:	Geodot Survey			

ELECTRICAL GENERAL NOTES

1. The location of all detector loops shall be approved by the engineer before any slots are sawed in the pavement.
2. Detector loop lead-in splice shall be made in a handhole per Section T421 of the Standard Specifications for Traffic Control Items. Conductors shall be soldered prior to applying compound. Rosin-core solder shall be used.
3. Call delay shall not function when the related phases are in the green mode
4. "Call Carry-over" shall function only when the related phases are in the green mode.
5. All induction loop detector amplifiers supplied for this project shall have the capacity of operating with both delay and extension modes active, if a time setting is programmed.
6. Slope handhole covers to match propose grade elevations.
7. Locate underground cables prior to attempting to constructing this project.
8. Abandon existing conduits and cables in place.
9. Detector loops shall be placed in the pavement after milling and prior to resurfacing.



TRAFFIC SIGNALS LEGEND

- GSC — Galvanized Steel Conduit
- PVCC — Polyvinyl Chloride Conduit
- Existing Traffic Signal Mast Arm
- Existing Handhole
- Existing Detector Loop
- Existing Controller
- Existing Service Installation
- Existing Signal Head, Pedestrian
- Existing Pedestrian Pushbutton Detector
- Existing Galvanized Steel Conduit
- Proposed Handhole
- Proposed Heavy Duty Handhole
- Proposed Detector Loop
- Proposed Conduit: "T" Trench, "P" Push, Size Specified

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS

F.A. ROUTE 600
SECTION 127R-2
MADISON COUNTY

DRAWN BY C.A.D.D.
CHECKED BY
DATE

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & MAIN STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	261A
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

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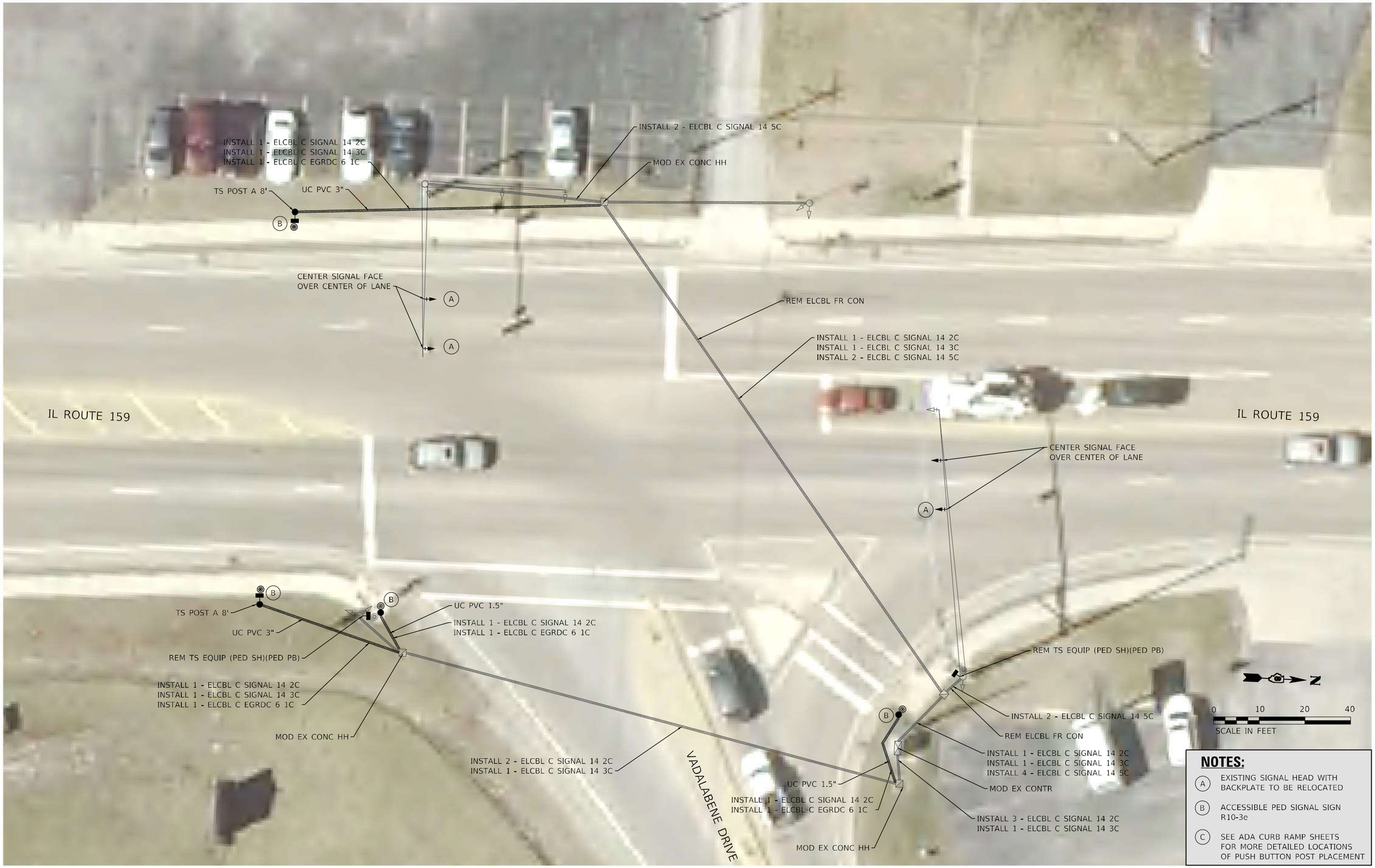


NOTES:

(A) EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

(B) ACCESSIBLE PED SIGNAL SIGN R10-3e

(C) SEE ADA CURB RAMP SHEETS FOR MORE DETAILED LOCATIONS OF PUSH BUTTON POST PLACEMENT

MODEL: Sheet 9 - Vadalabene
FILE NAME: H:\8249 PTB 199 032\8249 010 WO1 IL159 Traffic Signal Upgrades\Cadd Sheets\0876M87-4h.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

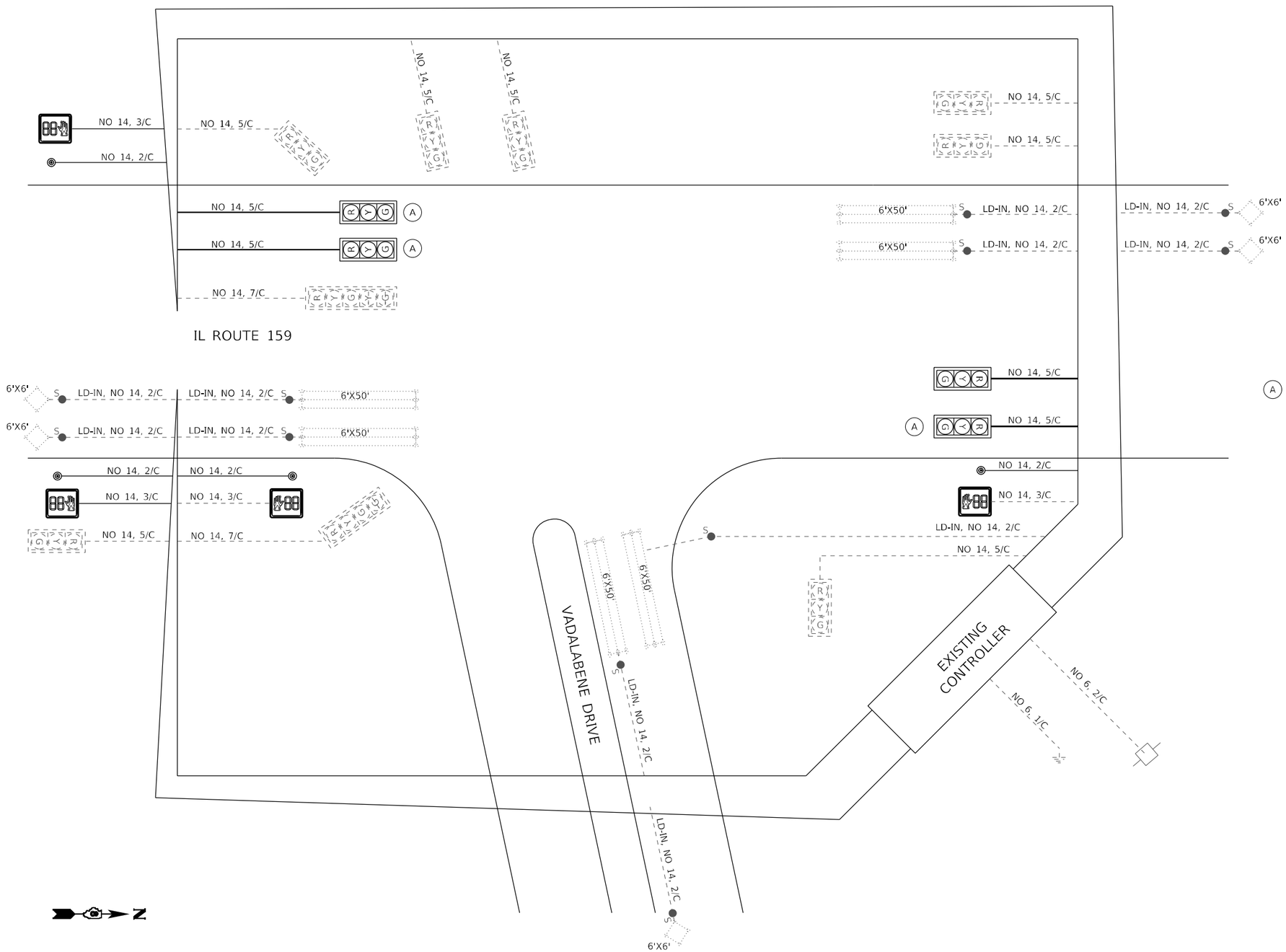
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

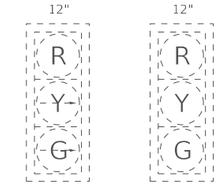
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL ROUTE 159 & VADALABENE DRIVE

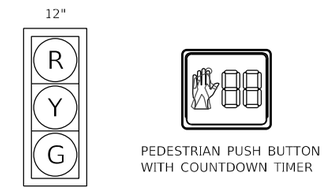
SCALE: 1" = 10' | SHEET TS 9 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	262
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

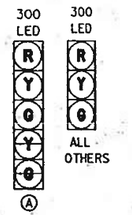
CABLE DIAGRAM LEGEND

◎	PROPOSED PEDESTRIAN PUSH BUTTON
———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

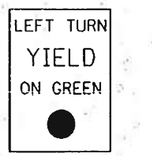
MODEL: Sheet 24 - Vadalabene
FILE NAME: H18249_PTB_199_03A18249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\D876M87-Cable Diagram.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE DIAGRAM IL ROUTE 159 & VADALABENE DRIVE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1.30)RS-4	MADISON	328 / 263
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: NTS / SHEET TS 24 OF 31 SHEETS / STA. / TO STA.		ILLINOIS	FED. AID PROJECT	

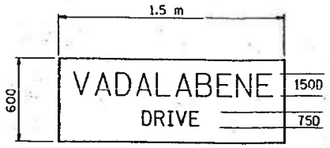
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	127-3R-3	MADISON	377	240
STA.	TO STA.			
EXISTING CONDITIONS:				



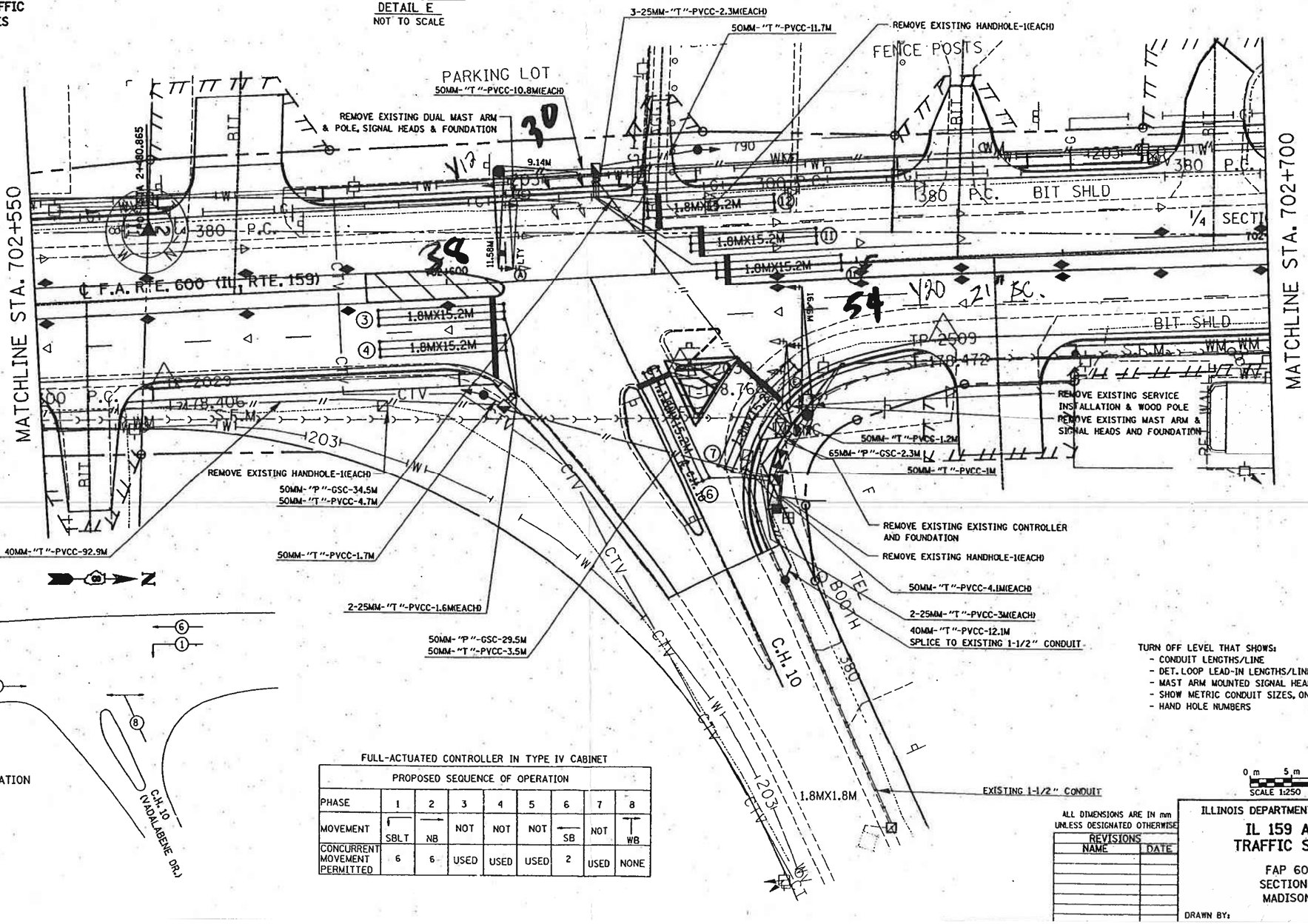
PROPOSED TRAFFIC SIGNAL FACES



R10-12
600 x 750



STREET NAME SIGN
DETAIL E
NOT TO SCALE



TURN OFF LEVEL THAT SHOWS:
- CONDUIT LENGTHS/LINE
- DET. LOOP LEAD-IN LENGTHS/LINE
- MAST ARM MOUNTED SIGNAL HEAD LENGTHS/LINES
- SHOW METRIC CONDUIT SIZES, ONLY TYPICAL EACH SHEET)
- HAND HOLE NUMBERS

FULL-ACTUATED CONTROLLER IN TYPE IV CABINET

PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SBLT	NB	NOT	NOT	NOT	SB	NOT	WB
CONCURRENT MOVEMENT PERMITTED	6	6	USED	USED	USED	2	USED	NONE

0 m 5 m 10 m 15 m
SCALE 1:250

ALL DIMENSIONS ARE IN mm UNLESS DESIGNATED OTHERWISE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 159 AND C.H. 10 TRAFFIC SIGNAL PLAN

FAP 600 ROUTE
SECTION 127-3R-3
MADISON COUNTY

DRAWN BY:

1 OF 2

MODEL: Default
FILE NAME: H:\8066_IDOT_Dist8_PTB194_059\8066_010_WO1_IL159\Design\D876M87-Sgn-AsBuiltJan.dgn

HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

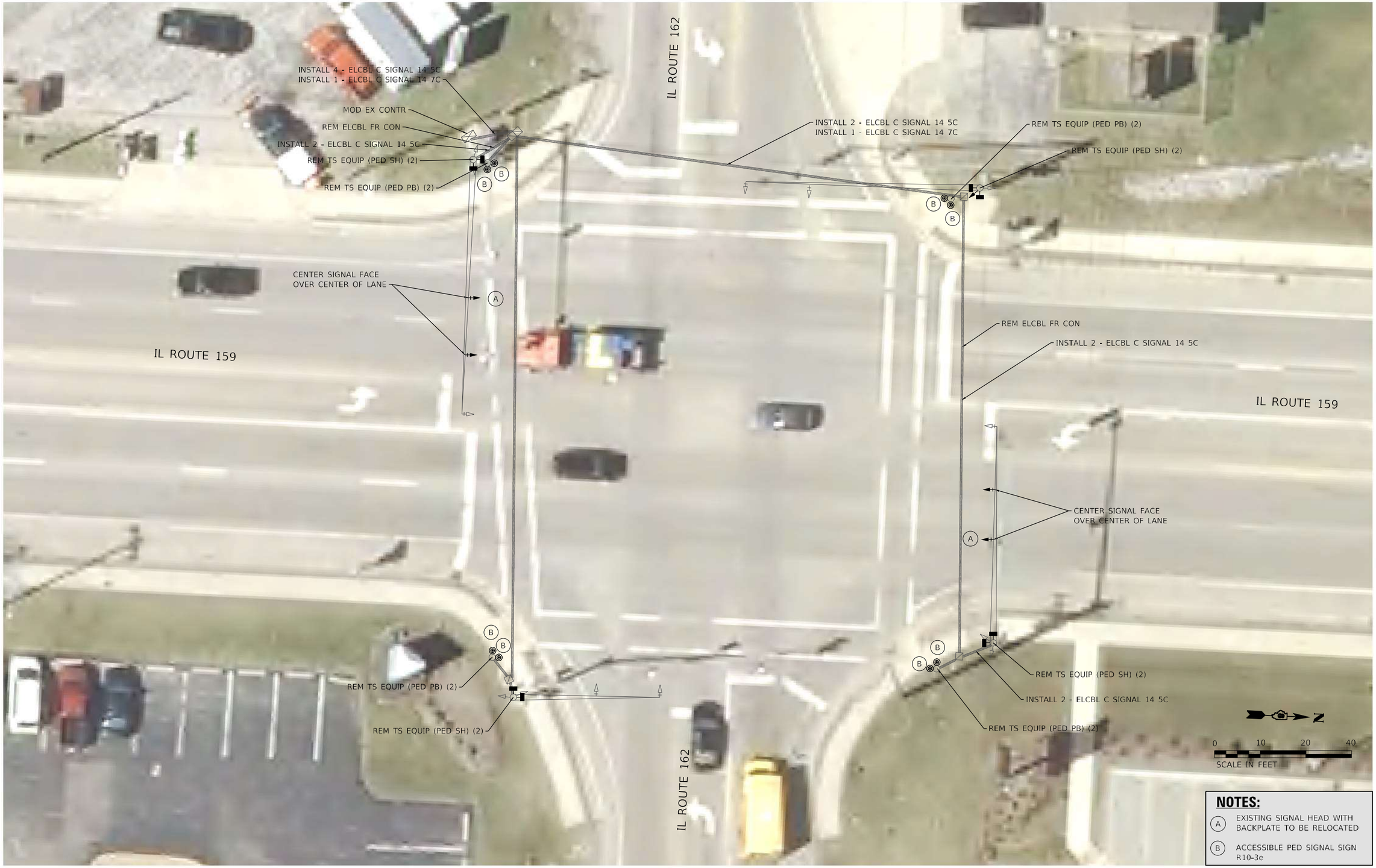
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & VADALABENE DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	263A
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		



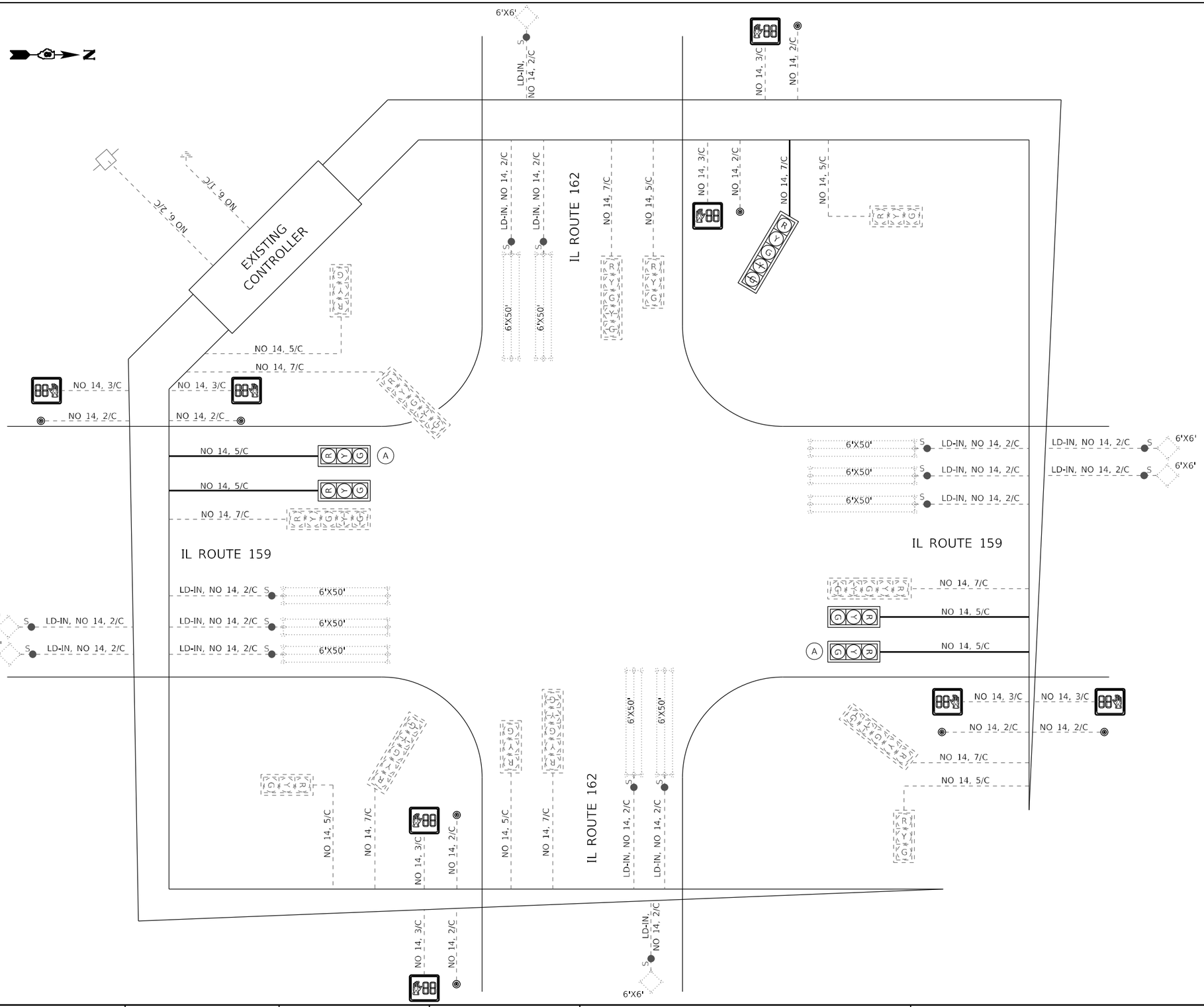
NOTES:

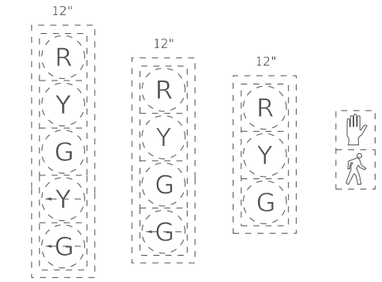
(A) EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

(B) ACCESSIBLE PED SIGNAL SIGN R10-3e

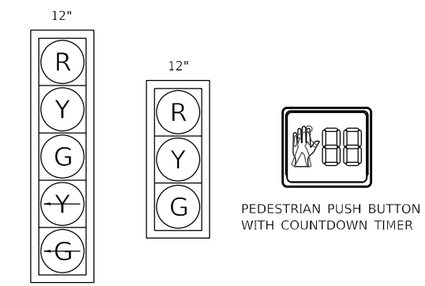
MODEL: Sheet 10 - IL 162
FILE NAME: H:\8249_PTB_199_03\08249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-4h.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS IL ROUTE 159 & IL ROUTE 162	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED -			600	(122,122-1,30)RS-4	MADISON	328 / 264
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: 1" = 10' / SHEET TS 10 OF 31 SHEETS / STA. / TO STA.		ILLINOIS	FED. AID PROJECT	





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

◎	PROPOSED PEDESTRIAN PUSH BUTTON
———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 25 - IL Rte 162
FILE NAME: H:\8249_PTB_199_033\8249_010_VOI_IL159_Traffic_Signal_Upgrades\Cadd Sheets\076M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

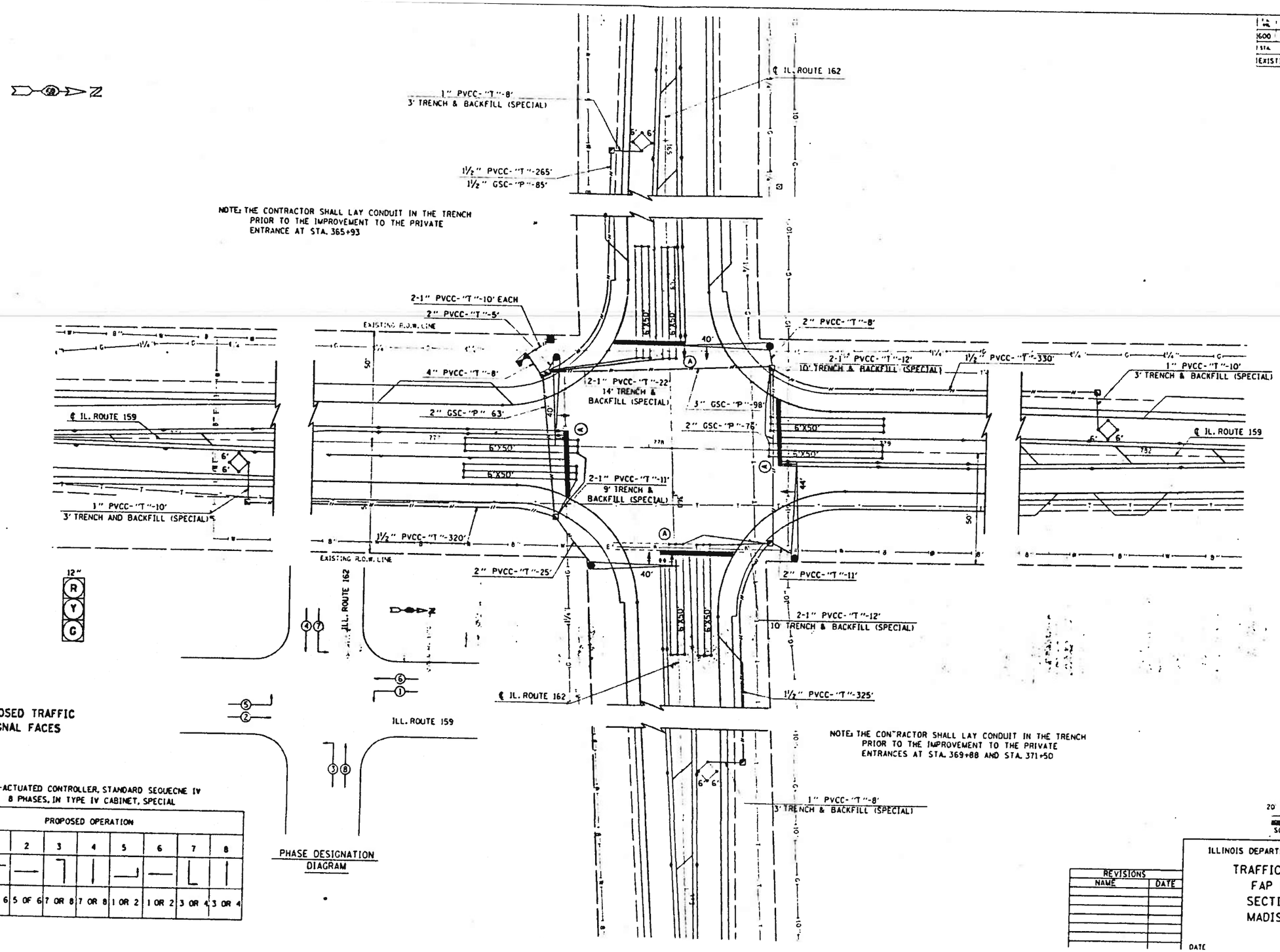
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & IL ROUTE 162

SCALE: NTS | SHEET TS 25 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1.30)RS-4	MADISON	328	265
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	127-2TS	MADISON	40	29
STA.		TO STA.		
EXISTING CONDITIONS:		STD. SURVEY		



FULL-ACTUATED CONTROLLER, STANDARD SEQUECNE IV
8 PHASES, IN TYPE IV CABINET, SPECIAL

PROPOSED OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	┌	—	┐	|	┘	—	└	|
CONCURRENT MOVEMENT PERMITTED	5 OF 6	5 OF 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

REVISIONS	
NAME	DATE

DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
FAP ROUTE 600
SECTION 127-2TS
MADISON COUNTY

DRAWN BY A.C.M.
CHECKED BY

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

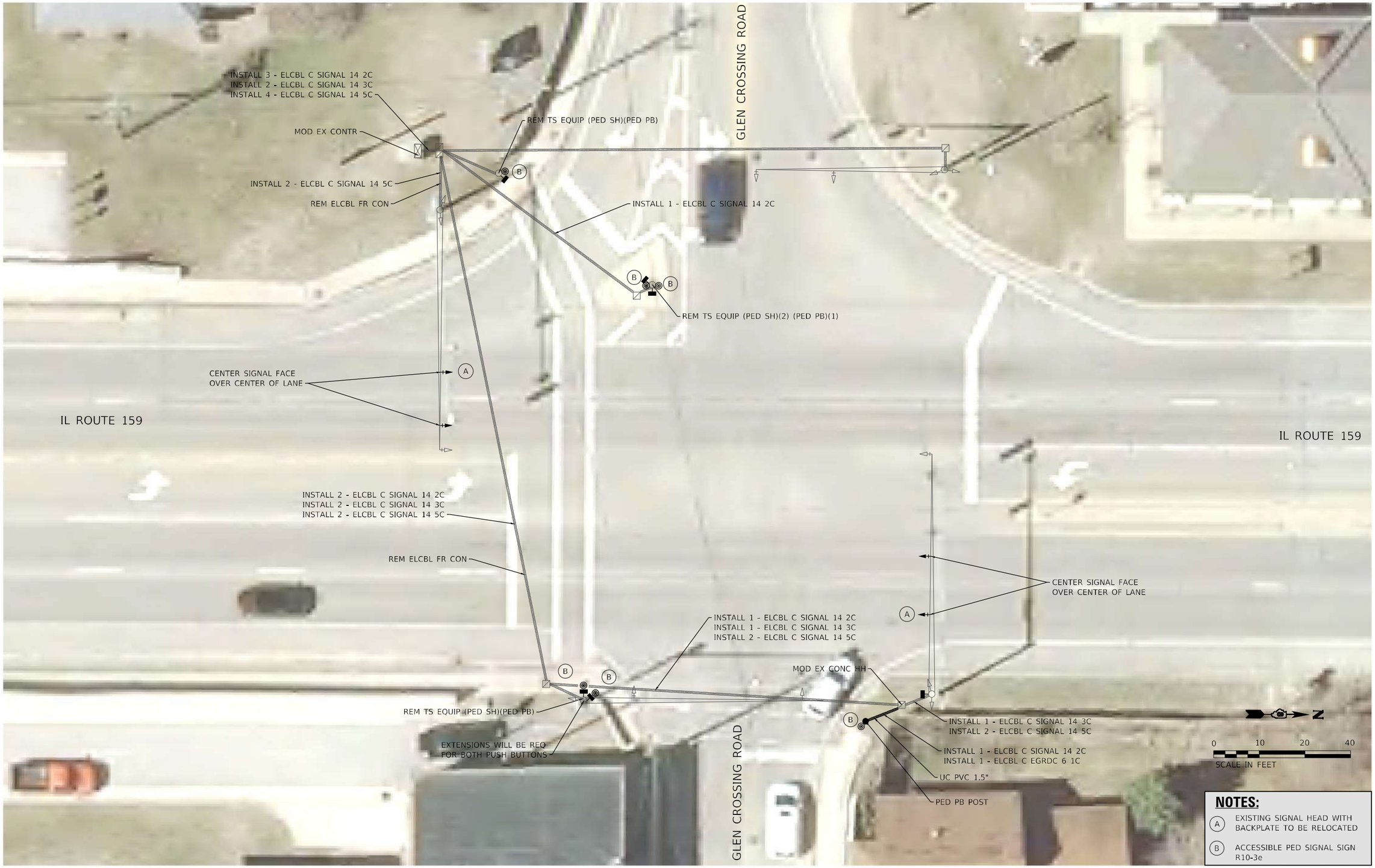
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & IL ROUTE 162

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	265A
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: H:\8066 IDOT Dist8 PTB194 D598066 010 WO1 IL159\Design\0876487-sht-AsBuilt-Ian.dgn



MODEL: Sheet 11 - Glen Crossing
FILE NAME: H:\6249_PTB_199_0328249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-TR.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

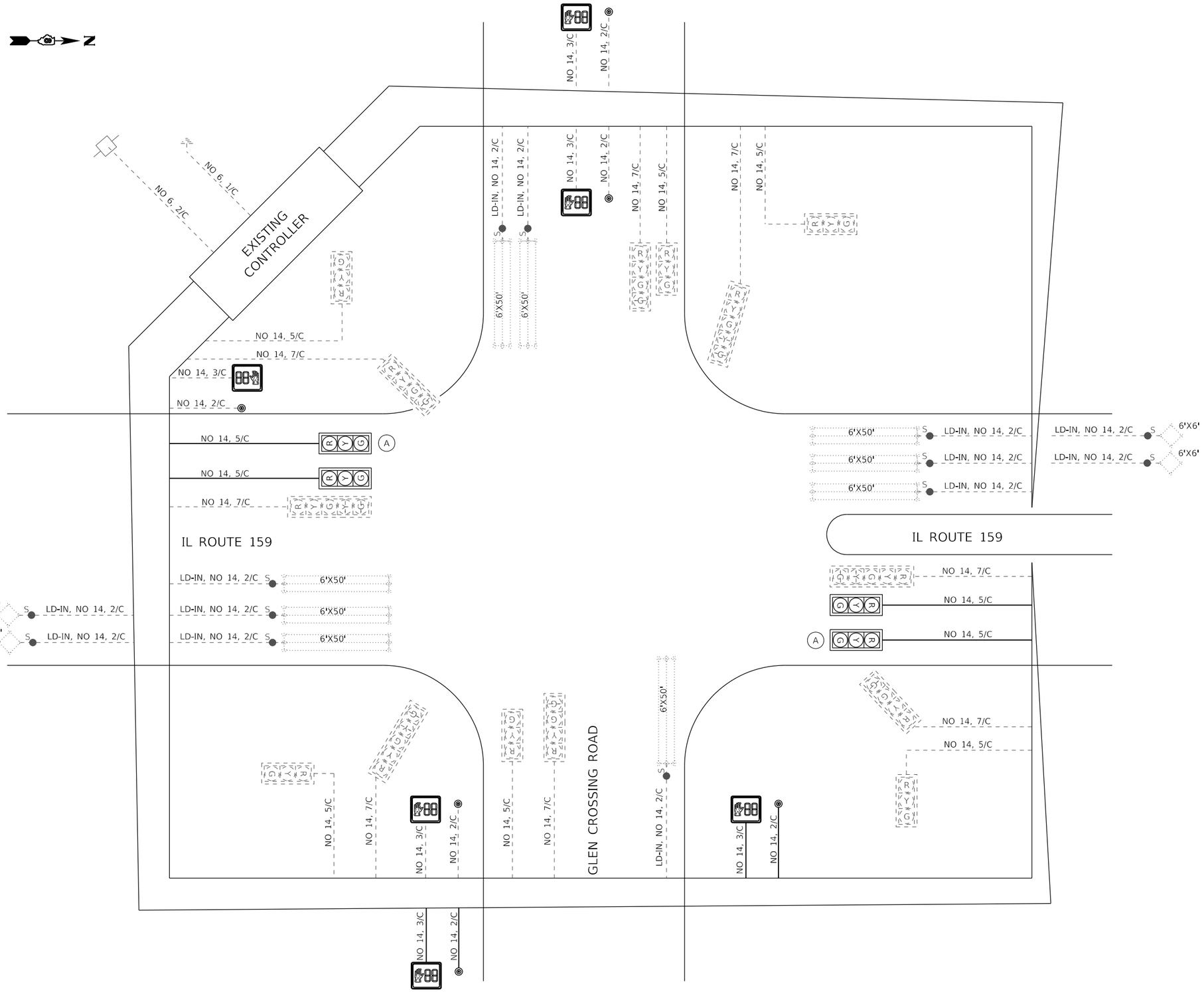
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

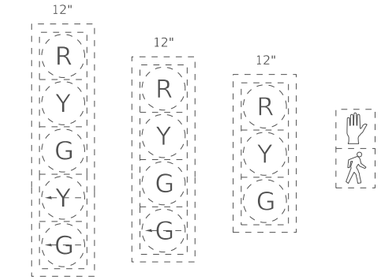
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL ROUTE 159 & GLEN CROSSING ROAD

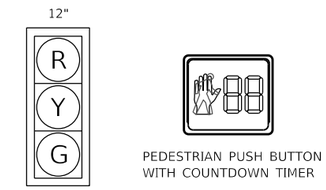
SCALE: 1" = 10' | SHEET TS 11 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1.30)RS-4	MADISON	328	266
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

◎	PROPOSED PEDESTRIAN PUSH BUTTON
———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●— S	CABLE SPLICE

MODEL: Sheet 26 - Glen Crossing
FILE NAME: H68249-PTB_199-03268249_010_WO1_IL159_Traffic_Signal_Upgrades(Cadd Sheets)0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

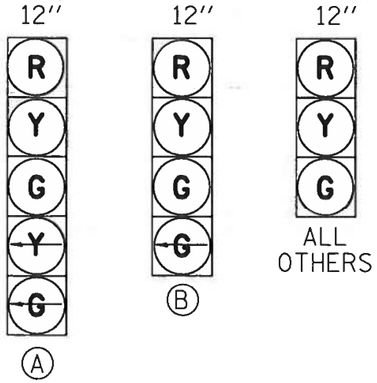
USER NAME = bratermann	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & GLEN CROSSING ROAD

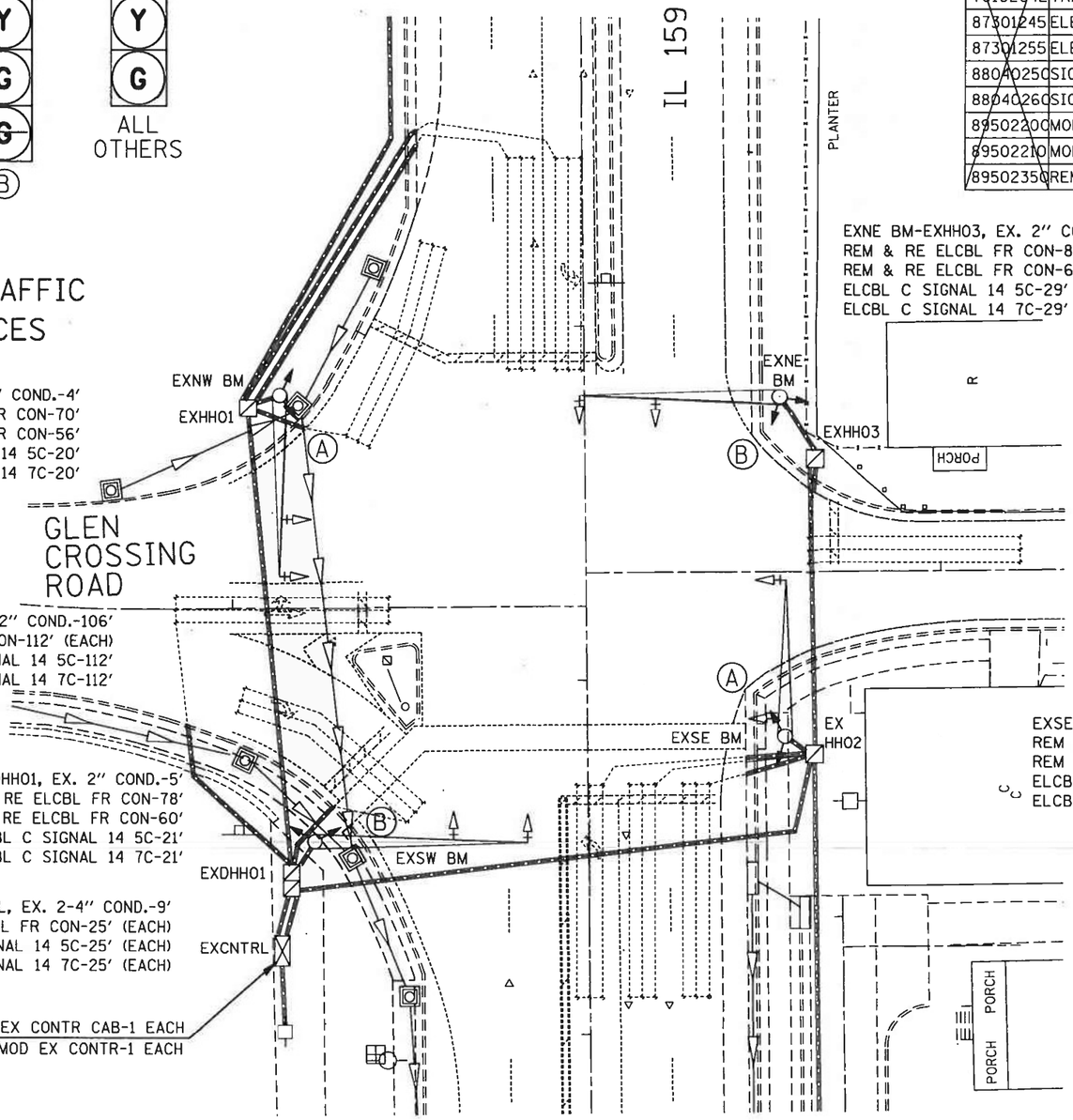
SCALE: NTS | SHEET TS 26 OF 31 SHEETS | STA. | TO STA.

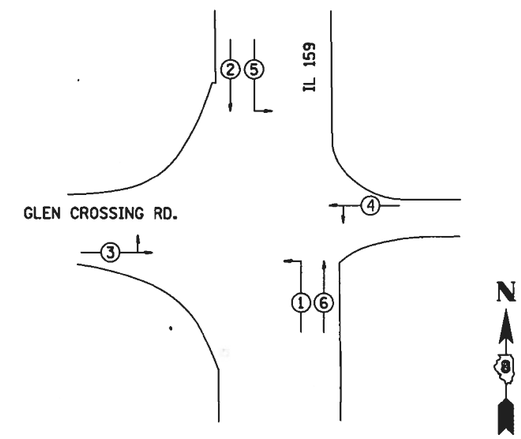
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	267
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



PROPOSED TRAFFIC SIGNAL FACES

SCHEDULE OF QUANTITIES			
CODE NO.	ITEM	UNIT	QTY.
70102637	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1
70102642	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	654
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	654
88040250	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-4-SECTION, BRACKET MOUNTED	EACH	2
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3268





PHASE DESIGNATION DIAGRAM

EXISTING FULL-ACTUATED CONTROLLER

EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT							NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2		

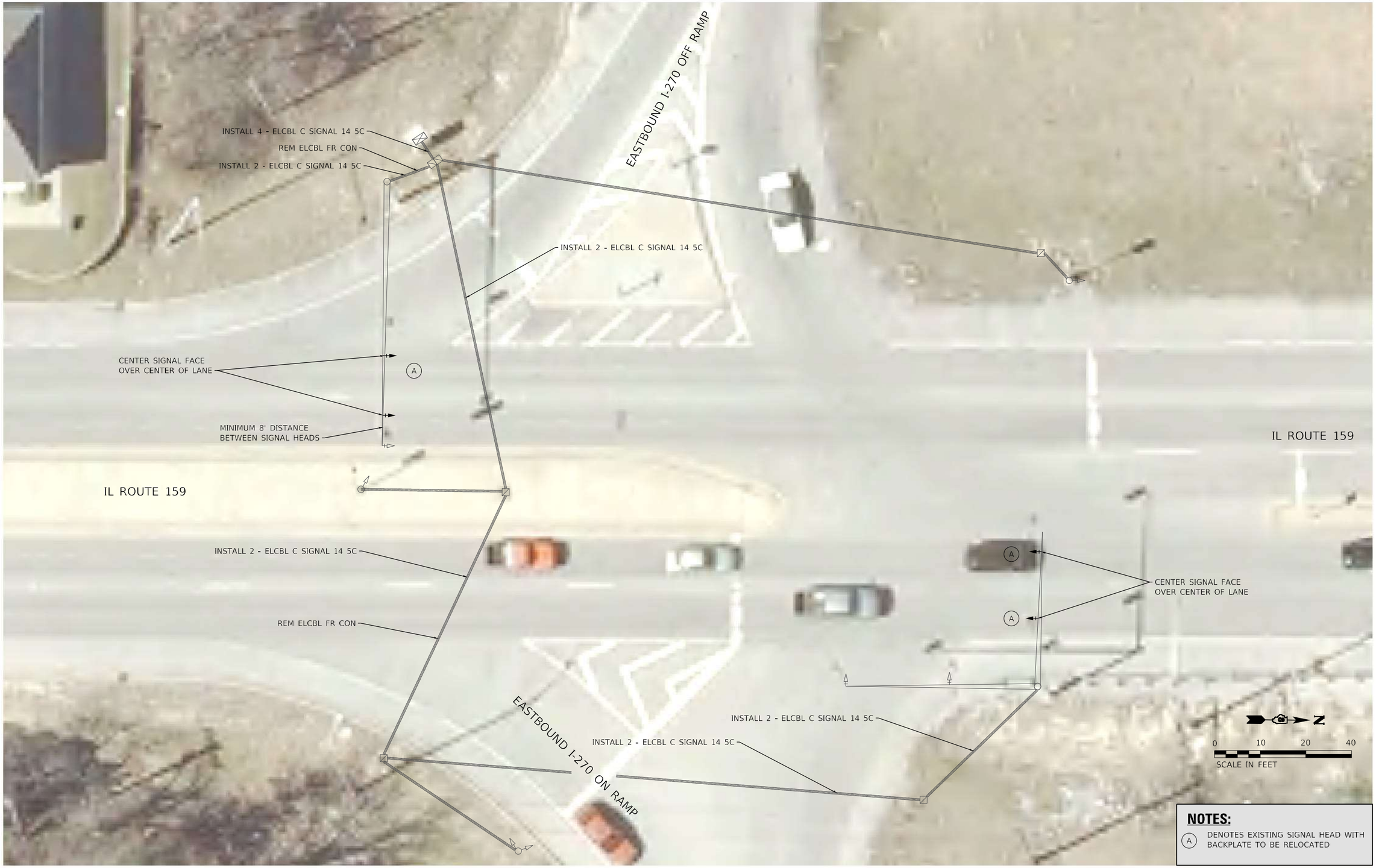
N

0 20 40 60

SCALE IN FEET

MODEL: Default
FILE NAME: H:\6066_IDOT_DH18_PTB194_0598066_010_WO1_IL159\Design\D876M87-sht-AsBuilt-Jan.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS BUILTS IL ROUTE 159 & GLEN CROSSING ROAD	FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			8887	(122,122-1,30)RS-4	MADISON	328	267A
	PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87		
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



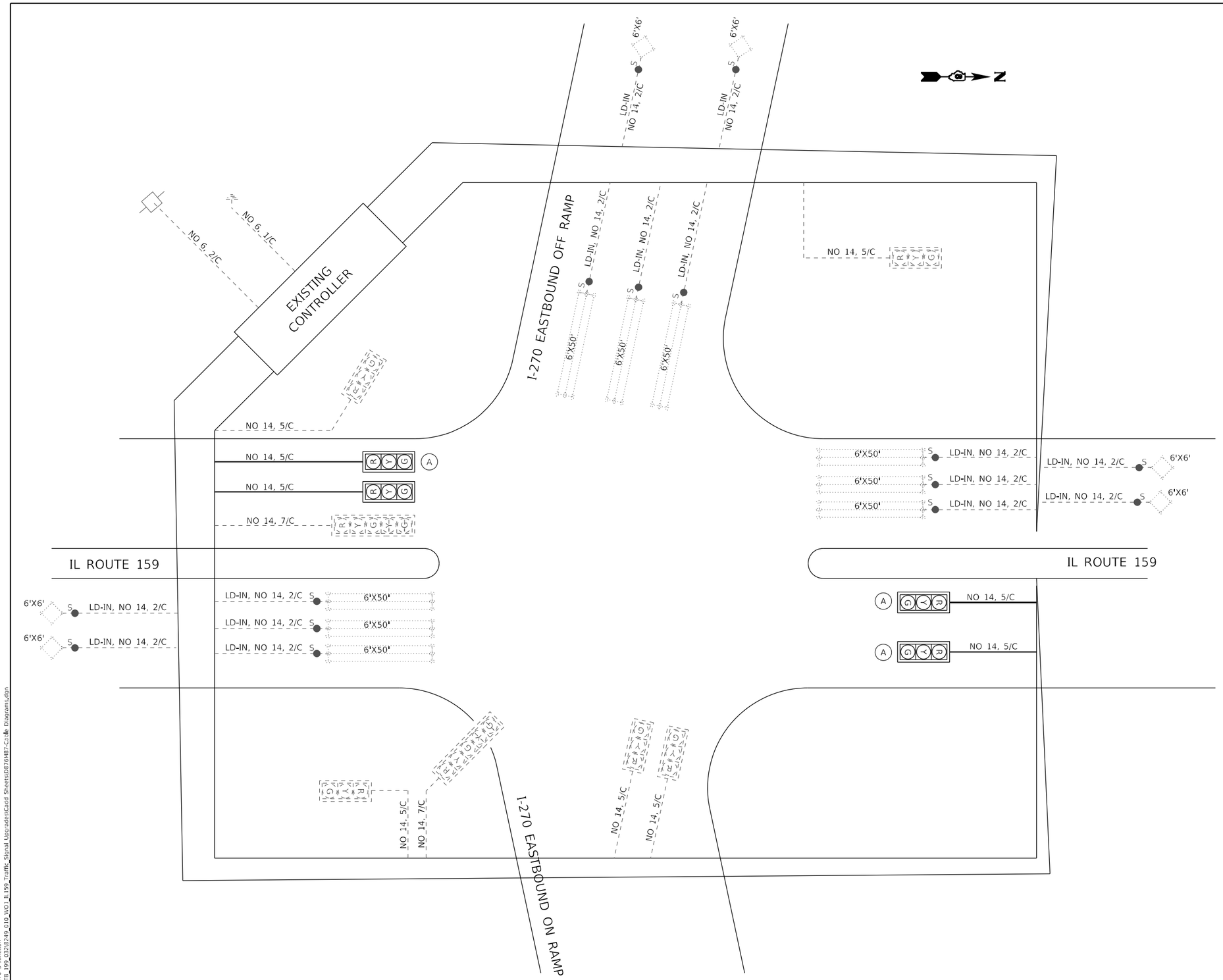
NOTES:

(A) DENOTES EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

MODEL: Sheet 12 - I-270 S Junction
FILE NAME: H:\8249_PTB_199_03\8249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-4h.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelnoefer	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC SIGNAL PLANS IL ROUTE 159 & I-270 S JUNCTION**
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: 1" = 10' SHEET TS 12 OF 31 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	268
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



12"

R
Y
G
Y
G

12"

R
Y
G

EXISTING TRAFFIC SIGNAL FACES

12"

R
Y
G

PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◉	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●— S	CABLE SPLICE

MODEL: Sheet 27 - I-270 S Junction
FILE NAME: H:\8249_PTB_199_033\8249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0276M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

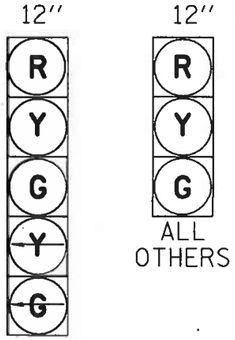
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & I-270 S JUNCTION

SCALE: NTS | SHEET TS 27 OF 31 SHEETS | STA. TO STA.

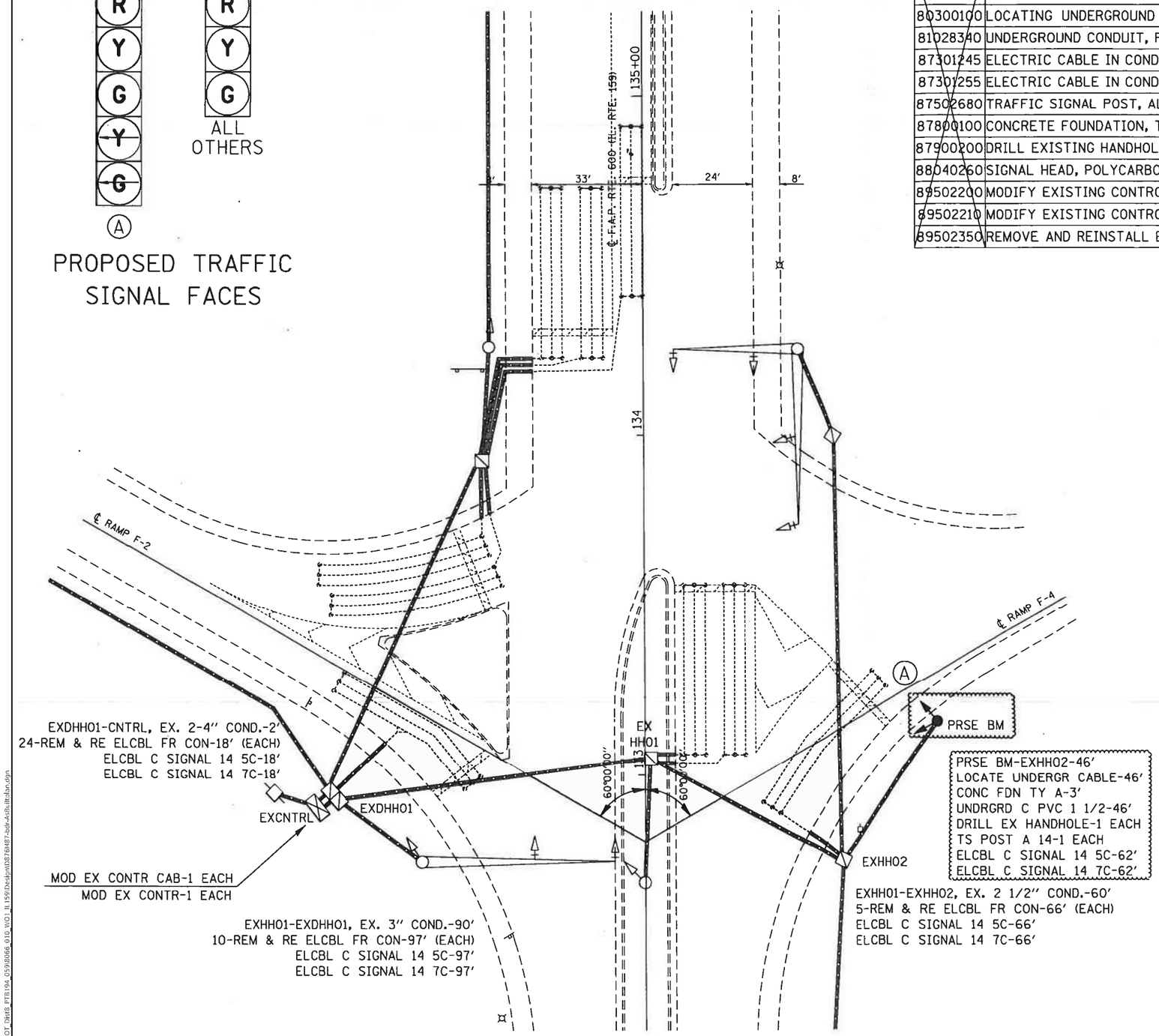
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	269
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

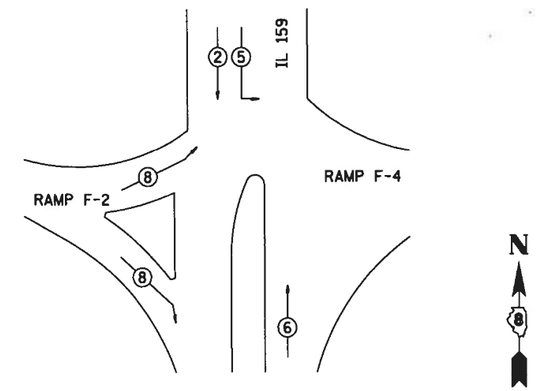


Ⓐ

PROPOSED TRAFFIC
SIGNAL FACES

SCHEDULE OF QUANTITIES			
CODE NO.	ITEM	UNIT	QTY.
70102637	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1
80300100	LOCATING UNDERGROUND CABLE	FOOT	46
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	46
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	243
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	243
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
87900200	DRILL EXISTING HANDHOLE	EACH	1
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1732





PHASE DESIGNATION
DIAGRAM

EXISTING FULL-ACTUATED CONTROLLER

EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NOT USED	↓	NOT USED	NOT USED	L	↑↑	NOT USED	⇉
CONCURRENT MOVEMENT PERMITTED		5 OR 6			2	2		NONE

0 20 40 60
SCALE IN FEET

N

MODEL: Default
FILE NAME: H:\8066_IDOT_D418_PTB194_0598066_010_VO1_IL159\Design\D876487-Sht-AsBuilt.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

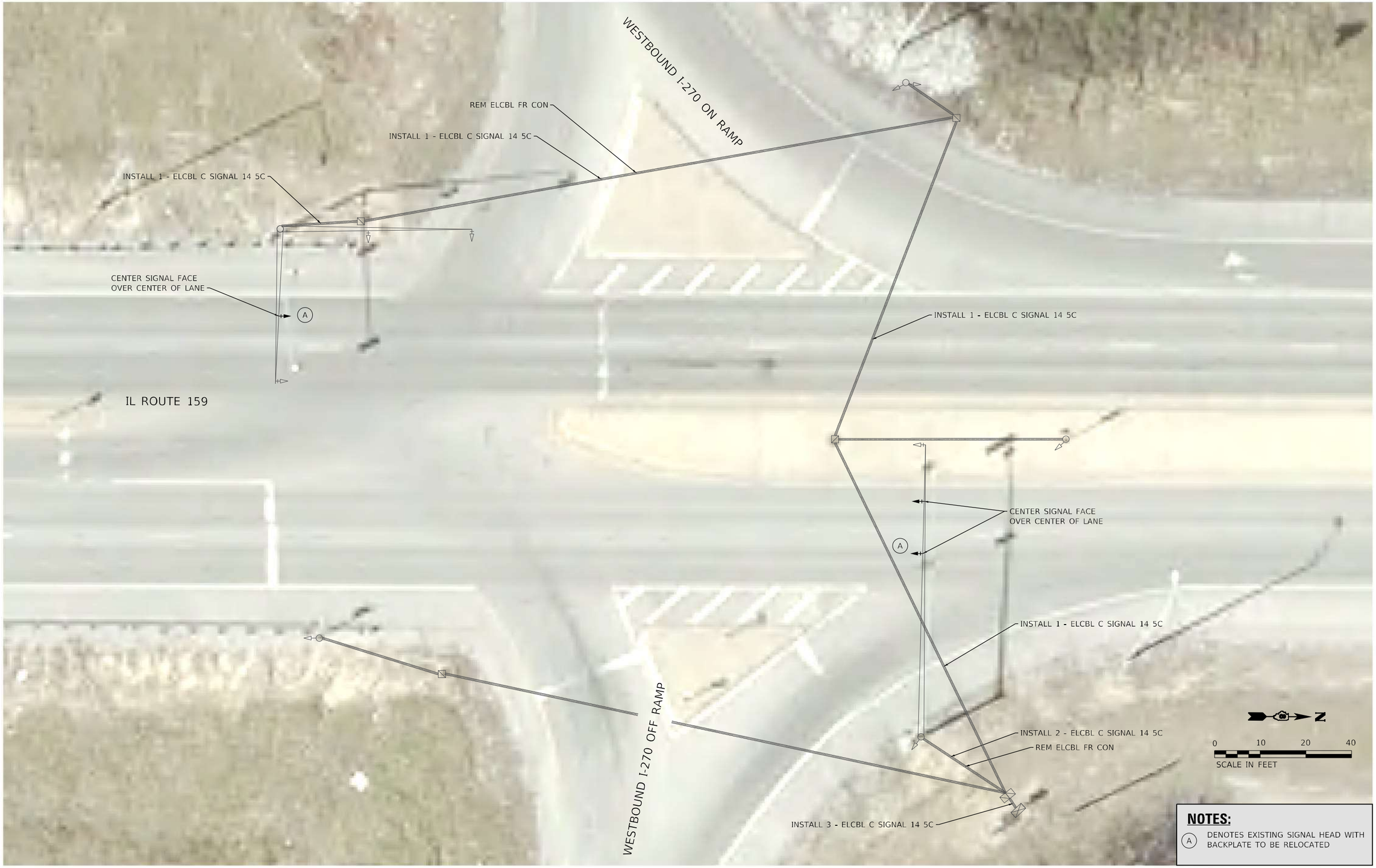
AS BUILTS
IL ROUTE 159 & I-270 S JUNCTION

SCALE: | SHEET OF SHEETS | STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	269A

CONTRACT NO. 76M87

ILLINOIS | FED. AID PROJECT



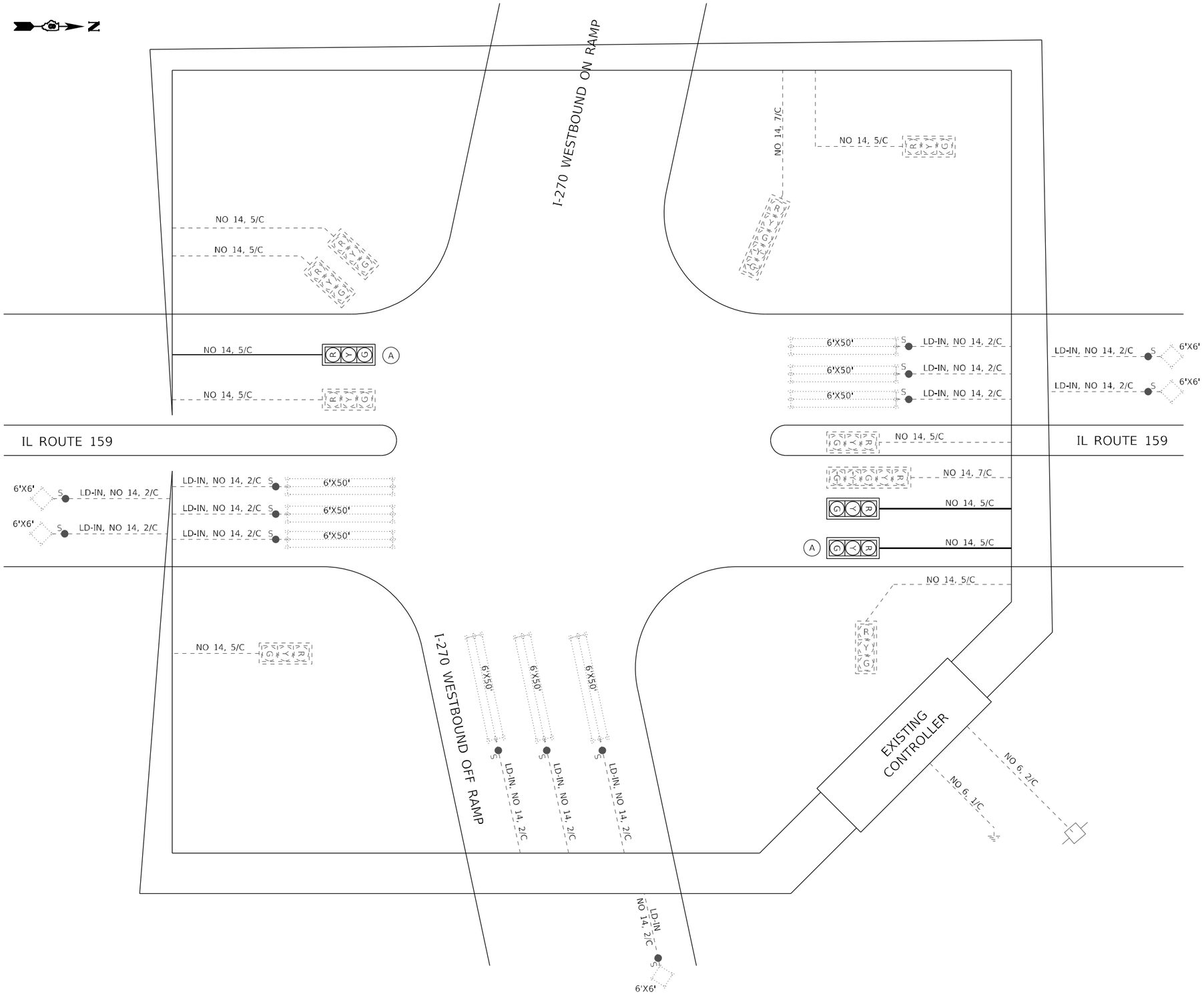
NOTES:

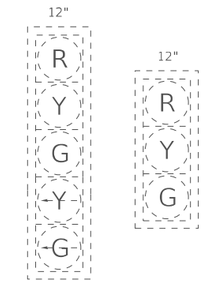
(A) DENOTES EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

MODEL: Sheet 13 - I-270 n Junction
FILE NAME: H:\8249_PTB_199_0328249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\D876M87-4n.dgn

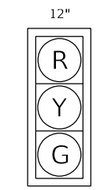
HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS IL ROUTE 159 & I-270 N JUNCTION
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: 1" = 10' SHEET TS 13 OF 31 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1.30)RS-4	MADISON	328	270
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

(A) EXISTING SIGNAL HEAD AND BACK PLATE TO BE RELOCATED

CABLE DIAGRAM LEGEND

———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◉	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 28 - I-270 N Junction
FILE NAME: H:\8249 PTB 199 03\8249 010 WO1 IL159 Traffic Signal Upgrades\Cadd Sheets\0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

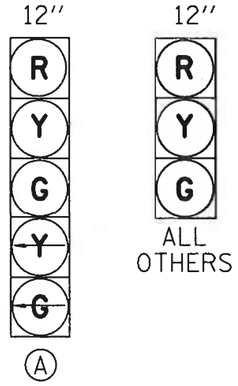
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & I-270 NORTH JUNCTION

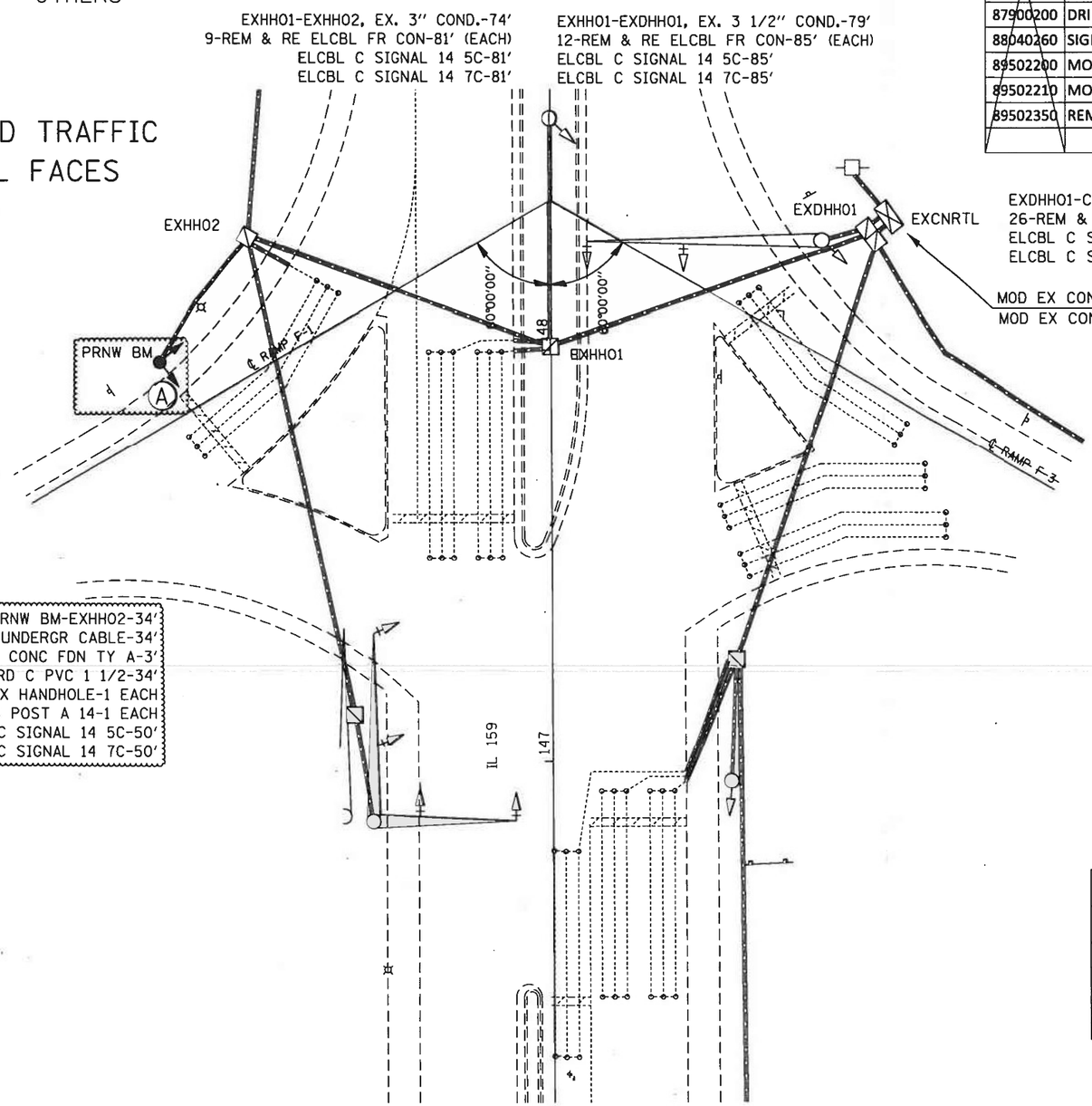
SCALE: NTS | SHEET TS 28 OF 31 SHEETS | STA. | TO STA.

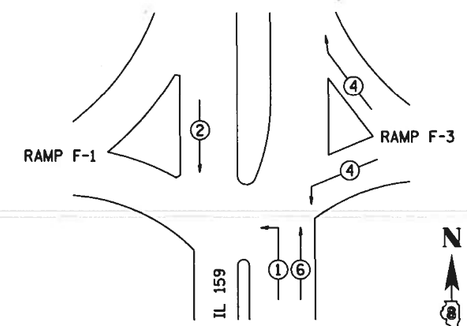
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	271
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



PROPOSED TRAFFIC SIGNAL FACES

SCHEDULE OF QUANTITIES			
CODE NO.	ITEM	UNIT	QTY.
70102637	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1
80300100	LOCATING UNDERGROUND CABLE	FOOT	34
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	34
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	234
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	234
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
87900200	DRILL EXISTING HANDHOLE	EACH	1
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	2217





PHASE DESIGNATION DIAGRAM

EXISTING FULL-ACTUATED CONTROLLER

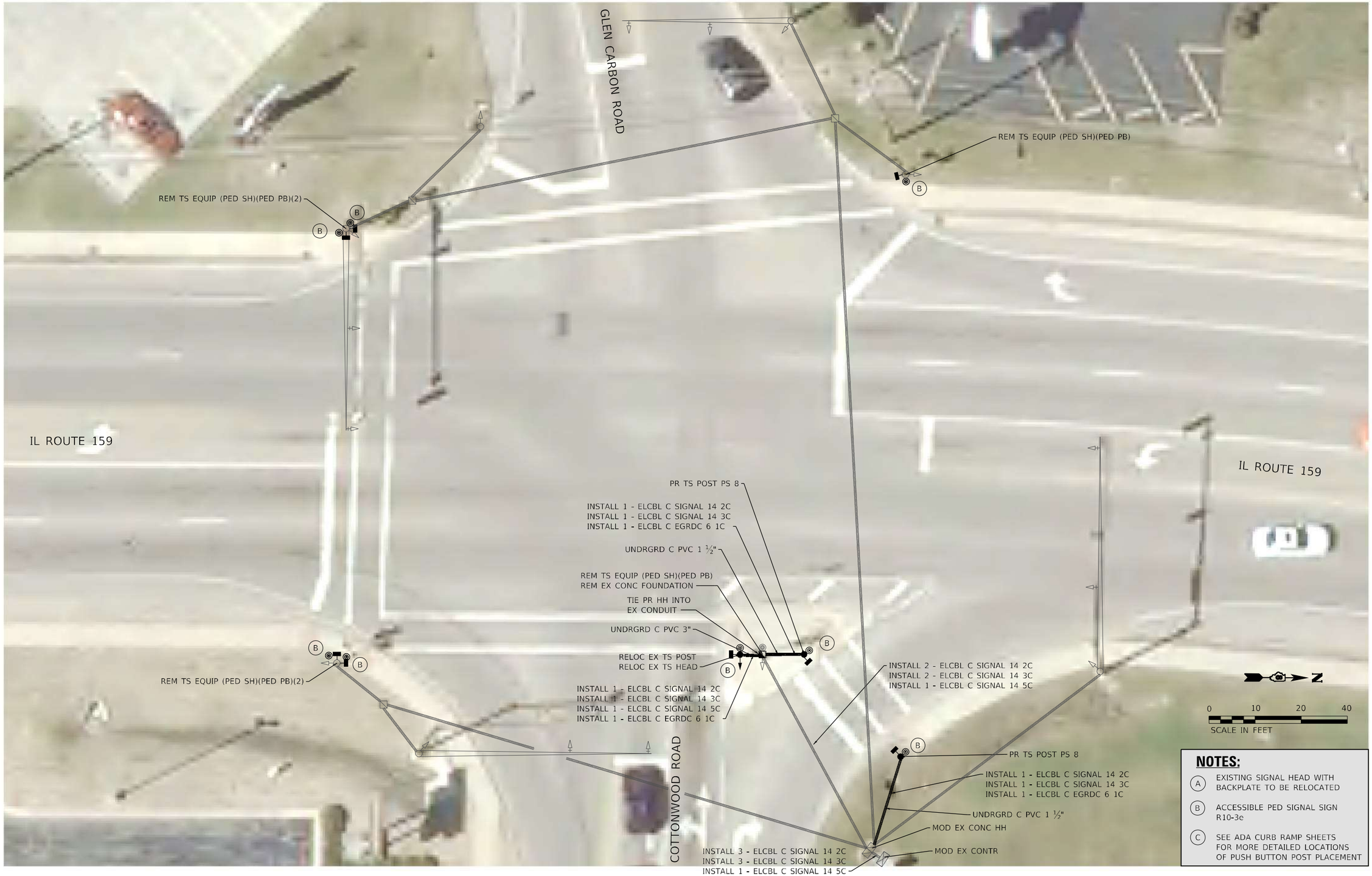
EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	↰	↓	NOT USED	⊢	NOT USED	↑	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	6	6		NONE		1 OR 2		

0 20 40 60
SCALE IN FEET

N
8

MODEL: Default
FILE NAME: H:\8066_IDOT_District_PTB194_0598066_010_WO1_IL159\Design\ts8876M87-Intr-AsBuilt-Jun.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS BUILTS IL ROUTE 159 & I-270 N JUNCTION	FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			8887	(122,122-1,30)RS-4	MADISON	328	271A
	PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87		
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



NOTES:

(A) EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

(B) ACCESSIBLE PED SIGNAL SIGN R10-3e

(C) SEE ADA CURB RAMP SHEETS FOR MORE DETAILED LOCATIONS OF PUSH BUTTON POST PLACEMENT

MODEL: Sheet 14 - Cottonwood
FILE NAME: H:\8249_PTB_199_0328249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\D876M87-14.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

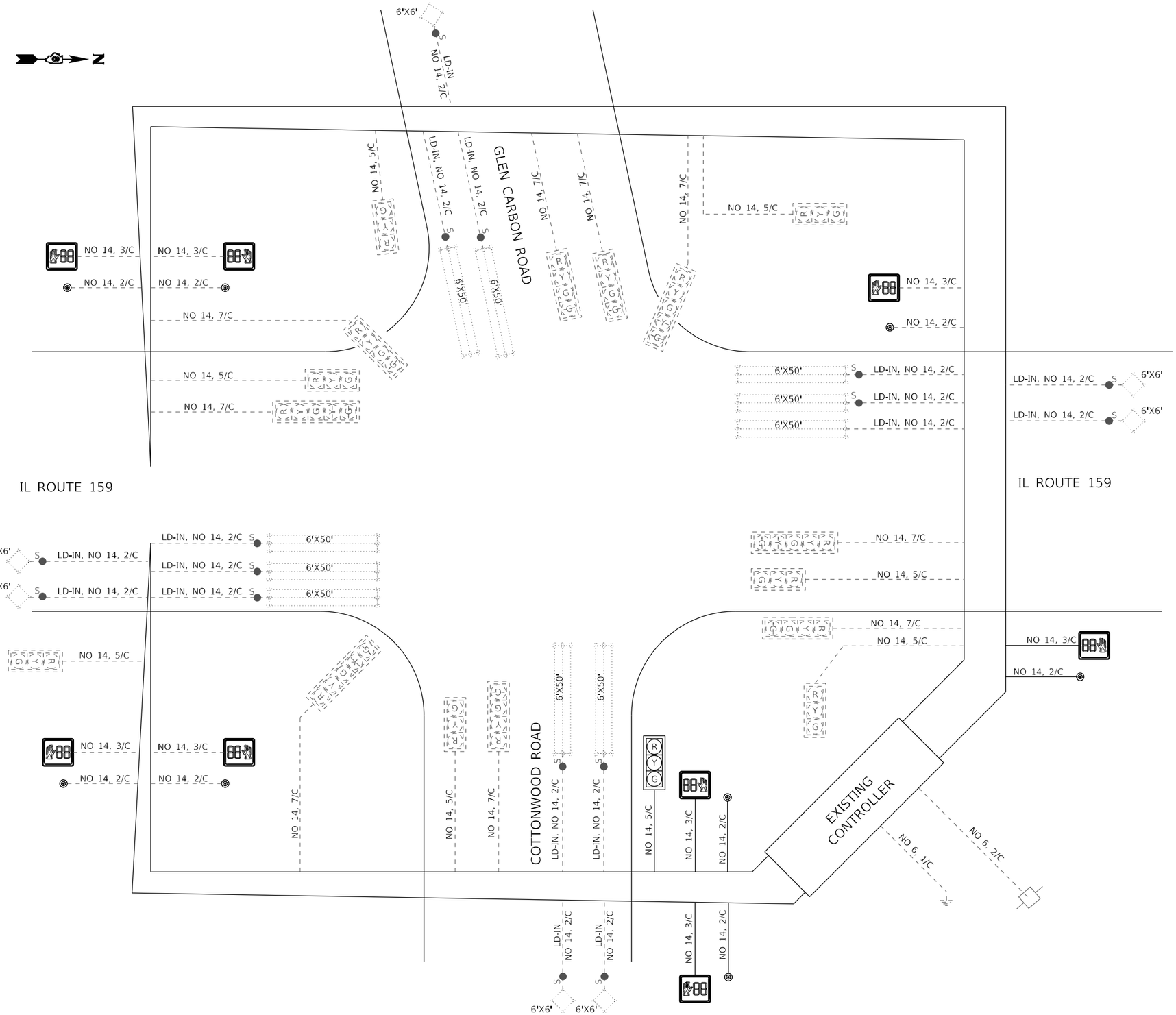
USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

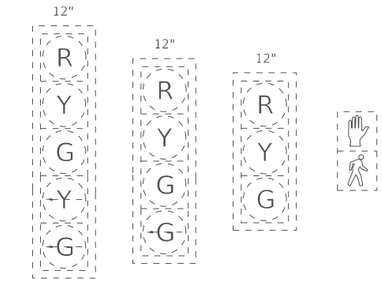
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL RTE 159 & GLEN CARBON ROAD /COTTONWOOD ROAD

SCALE: 1" = 10' | SHEET TS 14 OF 31 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1.30)RS-4	MADISON	328	272
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES

PROPOSED TRAFFIC SIGNAL FACES

CABLE DIAGRAM LEGEND

◎	PROPOSED PEDESTRIAN PUSH BUTTON
———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
-□-	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 29 - Cottonwood
FILE NAME: H:\6249_PFB_199_0320\6249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

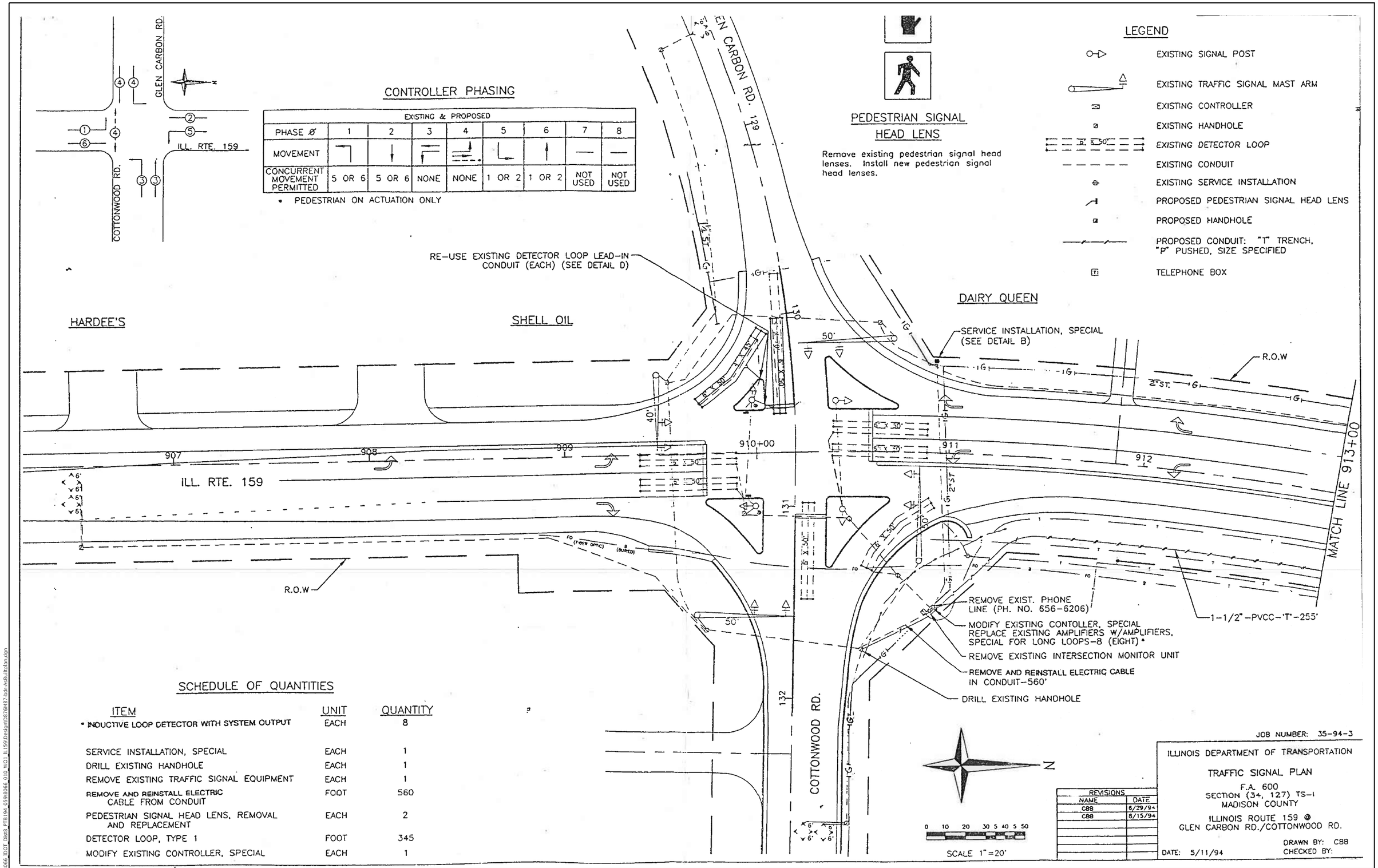
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & GLEN CARBON ROAD /COTTONWOOD ROAD

SCALE: NTS | SHEET TS 29 OF 31 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	273
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	



CONTROLLER PHASING

EXISTING & PROPOSED								
PHASE #	1	2	3	4	5	6	7	8
MOVEMENT							—	—
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2	NOT USED	NOT USED

* PEDESTRIAN ON ACTUATION ONLY

PEDESTRIAN SIGNAL HEAD LENS

Remove existing pedestrian signal head lenses. Install new pedestrian signal head lenses.

LEGEND

- EXISTING SIGNAL POST
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING CONTROLLER
- EXISTING HANDHOLE
- EXISTING DETECTOR LOOP
- EXISTING CONDUIT
- EXISTING SERVICE INSTALLATION
- PROPOSED PEDESTRIAN SIGNAL HEAD LENS
- PROPOSED HANDHOLE
- PROPOSED CONDUIT: "T" TRENCH, "P" PUSHED, SIZE SPECIFIED
- TELEPHONE BOX

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
* INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT	EACH	8
SERVICE INSTALLATION, SPECIAL	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	560
PEDESTRIAN SIGNAL HEAD LENS, REMOVAL AND REPLACEMENT	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	345
MODIFY EXISTING CONTROLLER, SPECIAL	EACH	1

REVISIONS	
NAME	DATE
C88	6/29/94
C88	8/15/94

JOB NUMBER: 35-94-3

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN

F.A. 600
SECTION (34, 127) TS-1
MADISON COUNTY

ILLINOIS ROUTE 159 @
GLEN CARBON RD./COTTONWOOD RD.

DRAWN BY: C88
CHECKED BY:
DATE: 5/11/94

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & GLEN CARBON ROAD/COTTONWOOD ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	273A

CONTRACT NO. 76M87

ILLINOIS | FED. AID PROJECT

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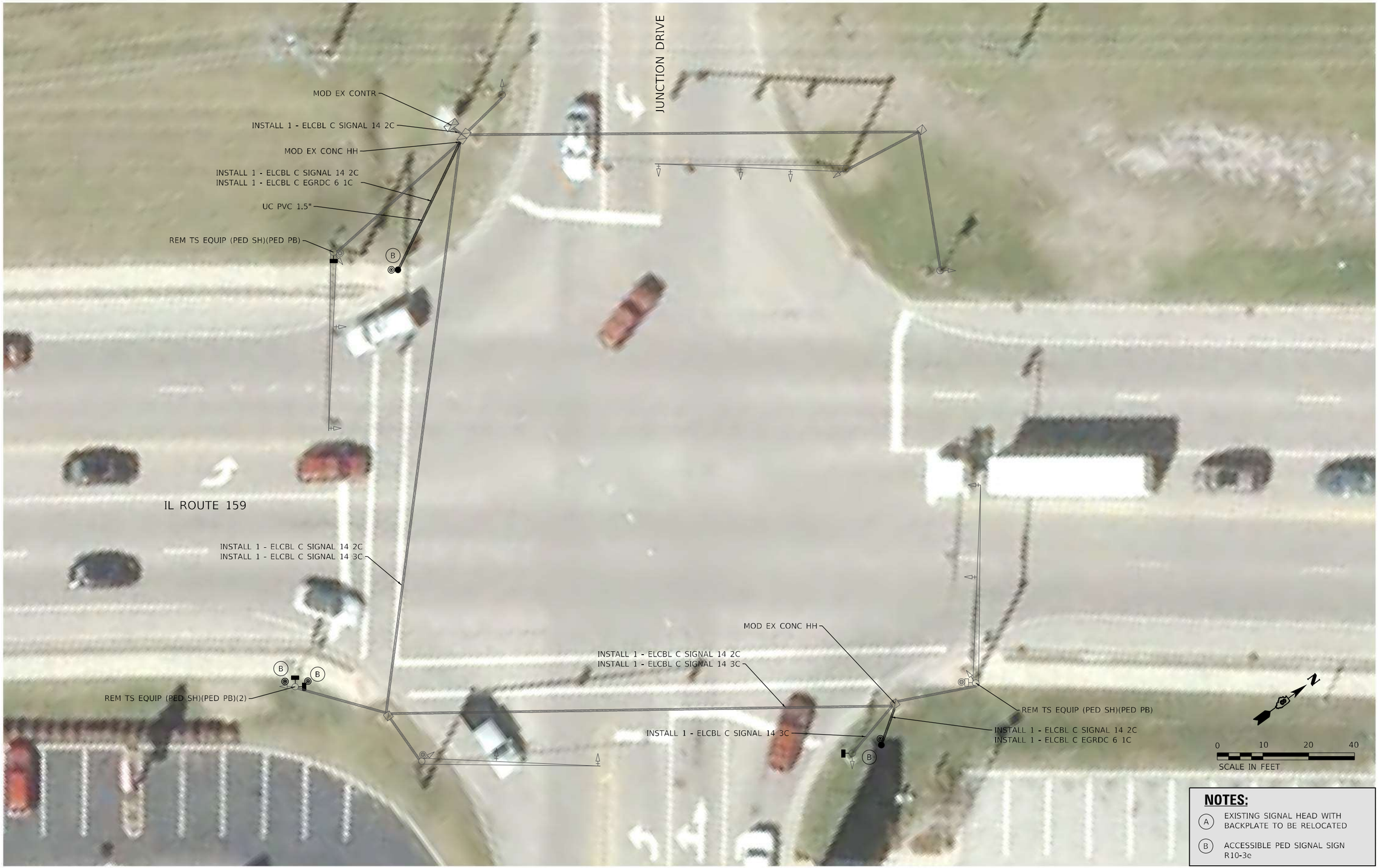


NOTES:

(A) EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

(B) ACCESSIBLE PED SIGNAL SIGN R10-3e

MODEL: Sheet 15 - Junction
FILE NAME: H:\8249 PTB 199 032\8249 010 WO1 IL159 Traffic Signal Upgrades\Cadd Sheets\0876M87-2h.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

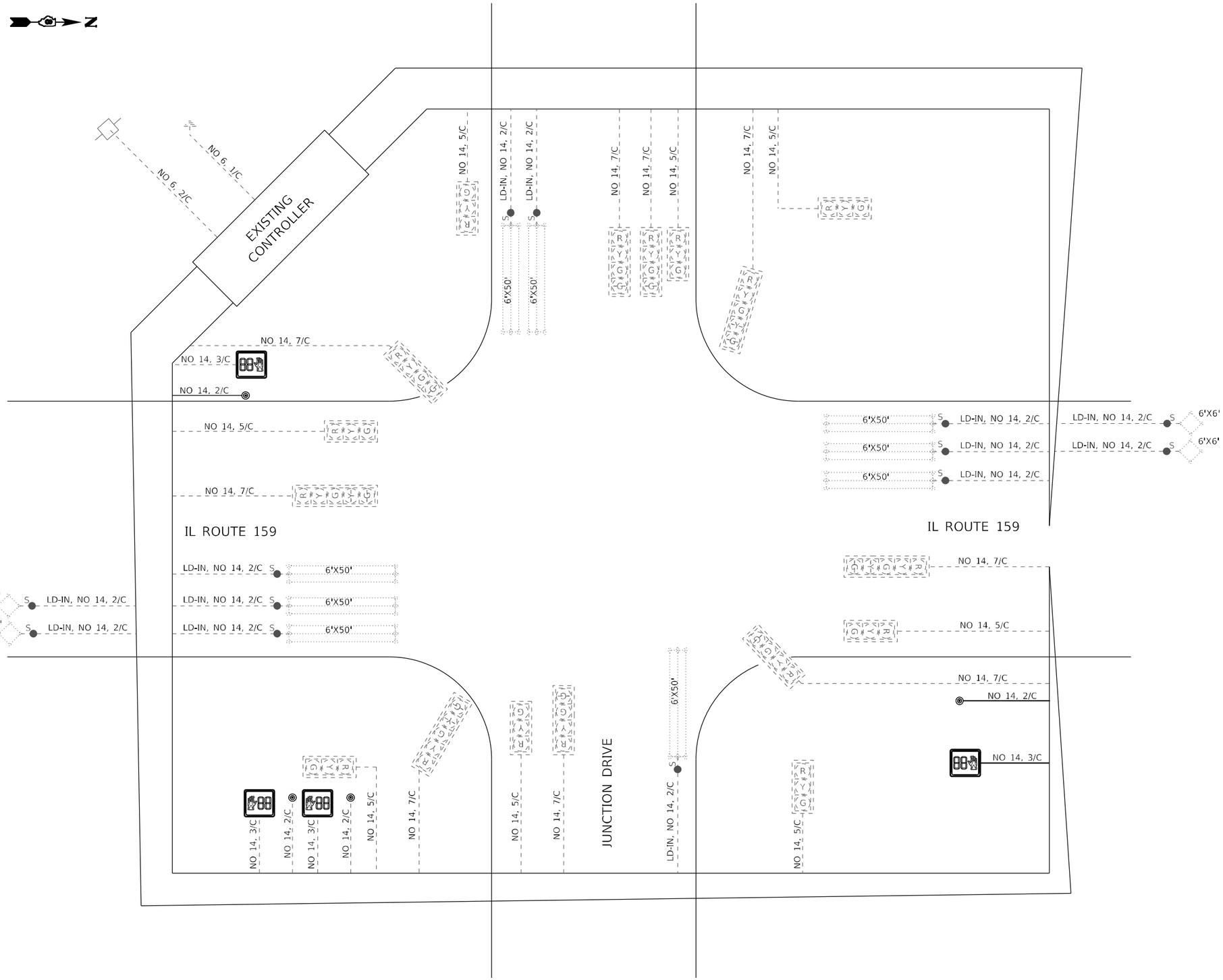
USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

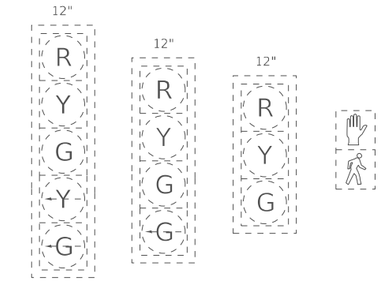
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL ROUTE 159 & JUNCTION DRIVE

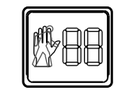
SCALE: 1" = 10' | SHEET TS 15 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	274
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES



PEDESTRIAN PUSH BUTTON
WITH COUNTDOWN TIMER

PROPOSED TRAFFIC SIGNAL FACES

CABLE DIAGRAM LEGEND

◎	PROPOSED PEDESTRIAN PUSH BUTTON
———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
—□—	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 30 - Junction
FILE NAME: H:\8249 PTB 159 03\8249 010 WO1 IL159 Traffic Signal Upgrades\Cadd Sheets\0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & JUNCTION DRIVE

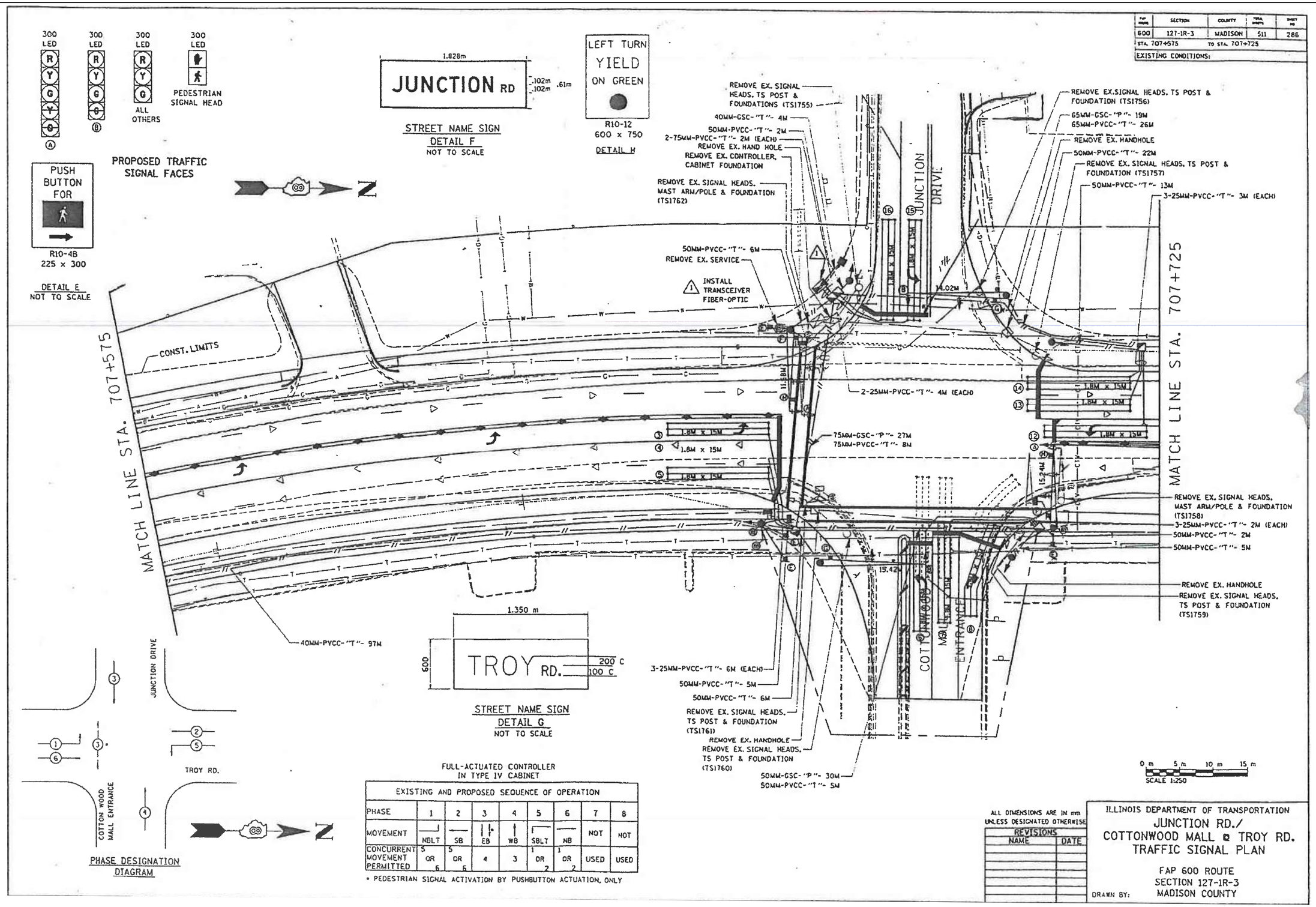
SCALE: NTS | SHEET TS 30 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	275
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
600	127-1R-3	MADISON	511	286

STA. 707+575 TO STA. 707+725

EXISTING CONDITIONS:



FULL-ACTUATED CONTROLLER
IN TYPE IV CABINET

EXISTING AND PROPOSED SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	EB	WB	SBLT	NB	NOT	NOT
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	4	3	1 OR 2	1 OR 2	USED	USED

• PEDESTRIAN SIGNAL ACTIVATION BY PUSHBUTTON ACTUATION, ONLY

ALL DIMENSIONS ARE IN mm UNLESS DESIGNATED OTHERWISE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
JUNCTION RD./
COTTONWOOD MALL @ TROY RD.
TRAFFIC SIGNAL PLAN

FAP 600 ROUTE
SECTION 127-1R-3
MADISON COUNTY

DRAWN BY:

MODEL: Default
FILE NAME: H:\8066_IDOT_Oak8_PTB194_059\8066_010_VOJ_IL159\Design\D876M87-bdr-AsBuilt-Jan.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & JUNCTION DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	275A

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

NOTES:

(A) EXISTING SIGNAL HEAD WITH BACKPLATE TO BE RELOCATED

(B) ACCESSIBLE PED SIGNAL SIGN R10-3e

MODEL: Sheet 16- Illini
FILE NAME: H:\8249_PTB_199_0238249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-1a.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

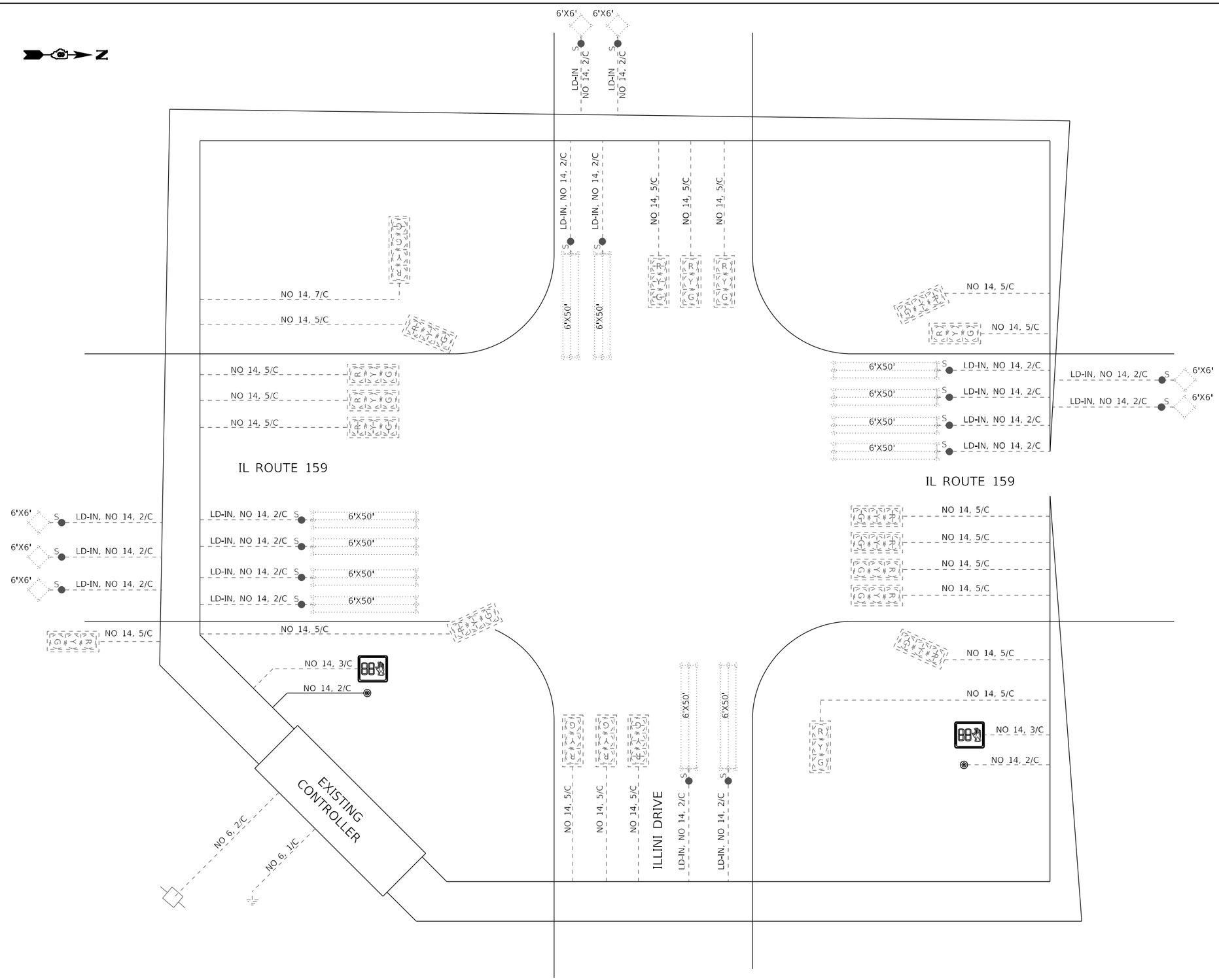
USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

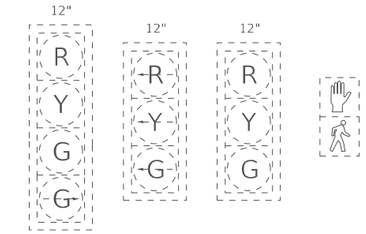
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLANS
IL ROUTE 159 & ILLINI DRIVE

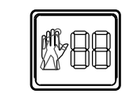
SCALE: 1" = 10' | SHEET TS 16 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1.30)RS-4	MADISON	328	276
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		





EXISTING TRAFFIC SIGNAL FACES



PEDESTRIAN PUSH BUTTON
WITH COUNTDOWN TIMER

PROPOSED TRAFFIC SIGNAL FACES

CABLE DIAGRAM LEGEND

◎	PROPOSED PEDESTRIAN PUSH BUTTON
———	PROPOSED ELECTRIC CABLE IN CONDUIT
2/C	INDICATES NUMBER OF CONDUCTORS IN CABLE
NO. 6	INDICATES AMERICAN WIRE (AWG) SIZE 6
- - - - -	EXISTING ELECTRIC CABLE IN CONDUIT
◎	EXISTING PEDESTRIAN PUSH BUTTON
—□—	EXISTING SERVICE INSTALLATION
—●S—	CABLE SPLICE

MODEL: Sheet 31 - Illini
FILE NAME: H:\8249_PTB_199_032\8249_010_WO1_IL159_Traffic_Signal_Upgrades\Cadd Sheets\0876M87-Cable Diagrams.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

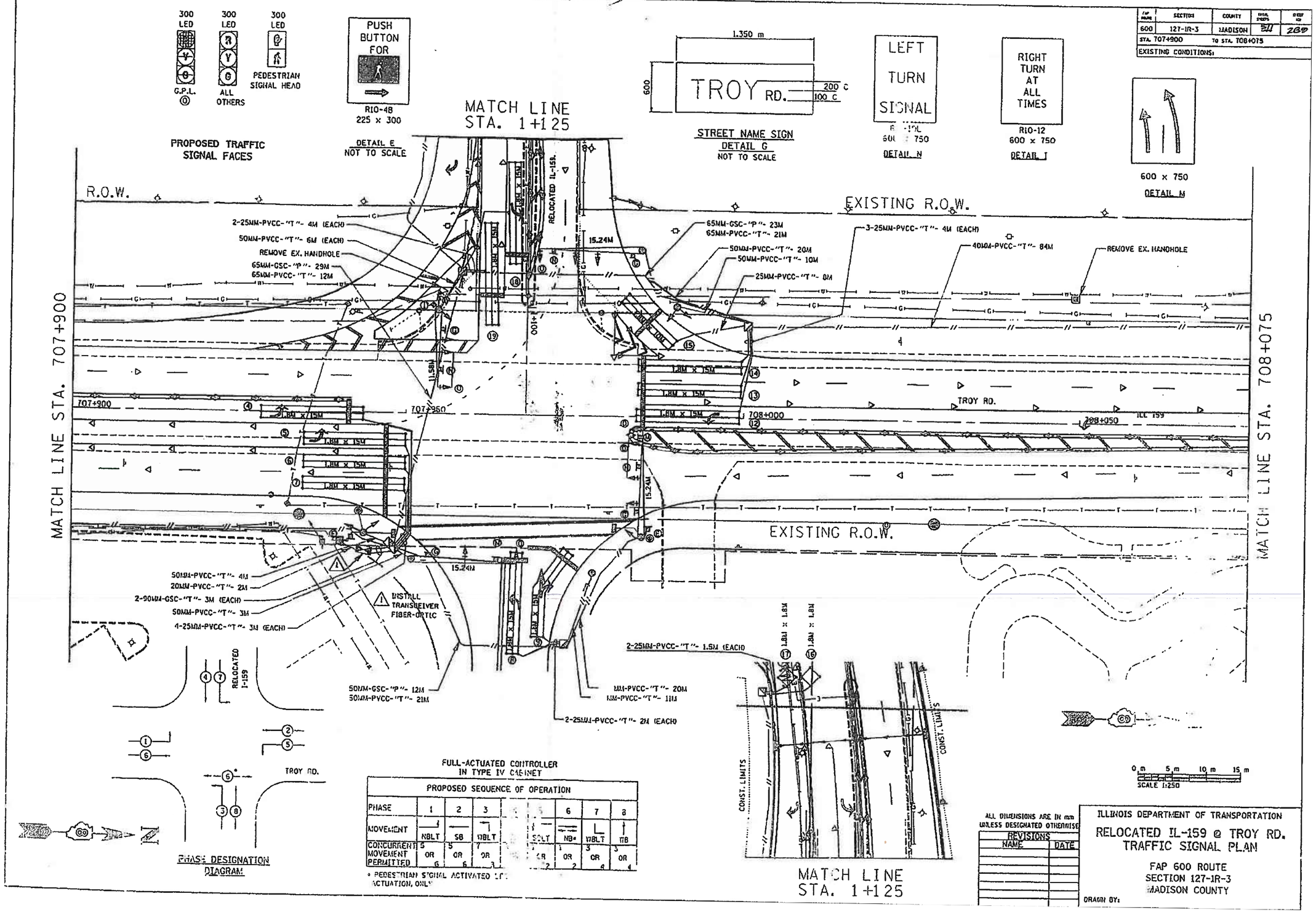
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
IL ROUTE 159 & ILLINI DRIVE

SCALE: NTS | SHEET TS 31 OF 31 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122,122-1,30)RS-4	MADISON	328	277
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	127-1R-3	MADISON	277	289
STA. 707+900		TO STA. 708+075		
EXISTING CONDITIONS:				



FULL-ACTUATED CONTROLLER IN TYPE IV CABINET

PROPOSED SEQUENCE OF OPERATION

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	WBLT		SBLT	NB*	WBLT	WB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8		1 OR 2	1 OR 2	3 OR 4	3 OR 4

* PEDESTRIAN SIGNAL ACTIVATED ON ACTUATION ONLY

ALL DIMENSIONS ARE IN mm UNLESS DESIGNATED OTHERWISE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

RELOCATED IL-159 @ TROY RD.
TRAFFIC SIGNAL PLAN

FAP 600 ROUTE
SECTION 127-1R-3
MADISON COUNTY

DRAWN BY:

MODEL: Default
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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
IL ROUTE 159 & ILLINI DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	277A
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/9/10

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Beltline in Collinsville LOGGED BY JH & CH

SECTION 60-(30,31,128)-N LOCATION S 1/2, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. 1 SE Quad
Station 589+22
Offset 84.0 ft Right
Ground Surface Elev. 557.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 548.6 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Light Brown Silty Clay LOAM				1.3	18
A-6(9)					
See Classification @ 0 ft	555.60			1.5	28
Light Brown and Gray Mottled Silty LOAM				2.0	28
A-4(8)				2.3	29
See Classification @ 5 ft		-5		2.0	28
				2.5	27
	550.60			2.5	28
Gray SILT				2.3	32
A-4(8)				2.3	32
See Classification @ 10 ft ▼		-10		2.3	31
				2.5	29
				2.8	28
	544.60			2.5	32
END OF HAND AUGER		-15			
Pocket Penetrometer used for Qu					
End of Boring		-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/9/10

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Beltline in Collinsville LOGGED BY JH & CH

SECTION 60-(30,31,128)-N LOCATION S 1/2, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. 2 NE Quad
Station 589+94
Offset 63.0 ft Right
Ground Surface Elev. 556.10 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
				1.3	25
Brown Silty Clay LOAM					
A-6(9)				2.0	28
See Classification @ 5 ft					
				2.5	29
				2.5	29
				2.3	34
		-5			
				2.0	31
				1.5	32
Gray	549.10				
Refusal in Unsuitable Material - END OF HAND AUGER					
Pocket Penetrometer used for Qu					
End of Boring		-10			
		-15			
		-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)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: H:\8066 IDOT Dist8 PTB194 0598066 010 WO1 IL159\CAD Sheets\0876M87-sht-BoringSheets.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & BELTLINE ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	278
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/9/10

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Beltline in Collinsville LOGGED BY JH & CH

SECTION 60-(30,31,128)-N LOCATION S 1/2, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. 3 NW Quad
Station 589+55
Offset 61.0 ft Left
Ground Surface Elev. 561.20 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 551.2 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Brown Silty LOAM A-4(8) See Classification @ 5 ft				1.5	23
				1.5	21
				2.0	26
				2.0	28
		-5		2.5	27
Light Brown	555.20			2.3	30
Light Brown and Gray SILT A-6(8) See Classification @ 10 ft				1.8	30
				1.8	31
Light Brown				1.8	30
		▼ -10		2.0	31
Mottled				2.0	30
Gray				2.0	30
	548.20			2.3	31
END OF HAND AUGER **Pocket Penetrometer used for Qu** End of Boring		-15 -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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/26/10

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Beltline in Collinsville LOGGED BY VPG & CH

SECTION 60-(30,31,128)-N LOCATION S 1/2, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. 4 SW Quad
Station 588+59
Offset 41.0 ft Left
Ground Surface Elev. 559.50 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 555.5 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11" Top Soil & 9" PCC				NS	
	557.50			NS	
Medium Brown Silty Clay LOAM A-3(12) See Classification @ 3 ft				1.5	
		▼		0.8	33
		-5		0.8	
	553.50			0.5	
Light Brown SILT A-4(0) See Classification @ 6 ft				0.3	30
				0.3	
				0.5	
				0.5	
	549.50	-10			
Light Brown SILT A-3(8) See Classification @ 10 ft	548.50			0.8	32
Light Gray with Black SILT A-4(8) See Classification @ 11 ft				1.0	29
	546.50			1.5	
END OF HAND AUGER **Pocket Penetrometer used for Qu** End of Boring		-15 -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)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: h:\8066 IDOT Dist8 PTB194 D598066 010 WO1 IL159\CAD Sheets\0876M87-sht-BoringSheets.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & BELTLINE ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	279
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/10/10

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Beltline in Collinsville LOGGED BY C. Higgins

SECTION 60-(30,31,128)-N LOCATION S 1/2, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. 5 Ramp
Station 589+41
Offset 139.0 ft Left
Ground Surface Elev. 561.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 553.0 ft ▼
Upon Completion ft
After Hrs. ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Brown Silty Clay LOAM A-4(8) See Classification @ 2 ft			1.0	22
			1.0	23
			1.8	26
			2.5	28
557.00				
Light to Medium Brown Silty Clay LOAM A-7-6(12) See Classification @ 5 ft	-5		2.5	30
			2.3	29
			1.8	31
554.00				
Gray with Brown Silty Clay LOAM ▼ A-6(9) See Classification @ 10 ft			0.5	36
			0.8	42
			1.0	34
551.00	-10			
END OF HAND AUGER **Pocket Penetrometer used for Qu** End of Boring	-15			
	-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)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: h:\8066_IDOT_Dist3_PTB194_059\8066_010_WO1_IL159\CAD_Sheets\0876M87-sht-BoringSheets.dgn

HMG ENGINEERS IL PROF DESIGN FIRM 184.000899	USER NAME = nseelhoefer	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 159 & BELTLINE ROAD SOIL BORINGS	FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			8887	(122,122-1,30)RS-4	MADISON	328	280
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87		
	PLOT DATE = 6/30/2022	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/12/05

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Camelot in Collinsville LOGGED BY Amaro / Warlick

SECTION 30-1TS-1 LOCATION NE 1/4, SE 1/4, **SEC.** 22, **TWP.** 3N, **RNG.** 8W, 3rd **PM**,
Latitude , **Longitude**

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.
Station

BORING NO. SB #1 NW Quad
Station 610+31
Offset 52.0 ft Right
Ground Surface Elev. 563.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty Loam		3 6 6	1.4 S/15	20
	-5	1 2 2	0.4 S/5	20
		2 3 4	1.4 S/20	29
554.26				
Brown Silty Clay Loam	-10	1 4 4	1.6 S/20	27
552.76				
End of Boring End of Boring	-15			
	-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/12/05

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Camelot in Collinsville LOGGED BY Amaro / Warlick

SECTION 30-1TS-1 LOCATION NE 1/4, SE 1/4, **SEC.** 22, **TWP.** 3N, **RNG.** 8W, 3rd **PM**,
Latitude , **Longitude**

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO.
Station

BORING NO. SB #2 SW Quad
Station 609+63
Offset 51.0 ft Right
Ground Surface Elev. 563.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty CLAY			2.0	15
			2.0	14
			2.0	14
			1.0	14
	-5		1.0	20
			1.0	26
			1.0	27
			1.0	28
			1.0	30
554.76				
Gray Silty Clay LOAM	-10		1.0	29
			1.0	28
			1.0	27
550.76			1.0	27
End of Boring **Pocket Penetrometer used for Qu** End of Boring	-15			
	-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)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: H:\8066 IDOT Data PTB194 0598066 010 WO1 IL159\CAD Sheets\0876M87-sht-BoringSheets.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & CAMELOT DRIVE
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	281
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/12/05

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Camelot in Collinsville LOGGED BY Shreader / Warlick

SECTION 30-1TS-1 LOCATION NE 1/4, SE 1/4, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.
Station

BORING NO. SB #3 SE Quad
Station 609+63
Offset 52.5 ft Left
Ground Surface Elev. 561.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty LOAM			4		
			7 9	4.0 P	16
		-5	4		
			3 3	3.0 P	21
			3		
			2 2	0.8 S/20	42
		-10	2		
	550.76		5 6	1.2 S/20	27
End of Boring End of Boring		-15			
		-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/12/05

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Camelot in Collinsville LOGGED BY Amaro / Warlick

SECTION 30-1TS-1 LOCATION NE 1/4, SE 1/4, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.
Station

BORING NO. SB #4 NE Quad
Station 610+32
Offset 55.0 ft Left
Ground Surface Elev. 561.76 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty LOAM			6		
			6 7	1.8 P	10
		-5	5		
			5 6	4.5 P	12
	554.76		3		
Brown Silty Clay LOAM			3 5	3.5 S/15	18
		-10	2		
	550.76		3 3	1.3 S/20	24
End of Boring End of Boring		-15			
		-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)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: H:\8066 IDOT Data PTB194 0598066 010 WO1 IL159\CAD Sheets\0876M87-sht-BoringSheets.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & CAMELOT DRIVE
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	282

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/11/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Cottonwood/Glen Carbon Roads LOGGED BY Larry Ford

SECTION 127-1R-3, (34-1)-1 LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO.
Station

BORING NO. #1 SE Quad
Station 707+368
Offset 25.60 m Right
Ground Surface Elev. 175.20 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion 173.2 m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Gray SILTY CLAY			1		
			1 2	67 S/10	25
		-1.5	1		
			1 1	38 S/10	30
	173.22				
Brown and Gray Very SILTY CLAY			1		
			1 1	29 S/10	32
		-3.0	1		
			2 2	67 S	28
			1		
			3 6	67 S/15	29
	170.93				
Gray and Brown SILTY CLAY		-4.5	1		
			4 4	125 S/10	28
			1		
			2 4	57 S/15	26
		-6.0			
Gray and Brown SILTY CLAY (continued)			1		
			3 4	86 S/10	26
	168.80				
End of Boring End of Boring		-7.5			
		-9.0			
		-10.5			
		-12.0			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/11/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Cottonwood/Glen Carbon Roads LOGGED BY Larry Ford

SECTION 127-1R-3, (34-1)-1 LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO.
Station

BORING NO. #2 NE Quad
Station 707+403
Offset 12.50 m Right
Ground Surface Elev. 175.44 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion 173.3 m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown SILTY CLAY			1		
			2 2	67 S	27
	174.22				
Brown Very SILTY CLAY		-1.5	1		
			1 2	96 S	27
			1		
			2 3	86 S	28
		-3.0	1		
			2 3	77 S/10	27
	171.94				
Bronw SILTY CLAY			1		
			3 4	96 S/15	29
		-4.5	1		
			3 3	115 S/15	27
			1		
			2 3	96 S/10	26
	169.50	-6.0			
Reddish-Brown SILTY SANDY CLAY with a trace of GRAVEL			1		
			2 3	57 S/10	22
	169.04				
End of Boring End of Boring		-7.5			
		-9.0			
		-10.5			
		-12.0			

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, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: H:\8066 IDOT D8\8 PTB194 0598066 010 WO1 IL159\CAD Sheets\0876M87-sht-BoringSheets.dgn

HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & COTTONWOOD/GLEN CARBON ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	283

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/11/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Cottonwood/Glen Carbon Roads LOGGED BY Larry Ford

SECTION 127-1R-3, (34-1)-1 LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO.
Station

BORING NO. #3 NW Quad
Station 707+397.3
Offset 17.98 m Left
Ground Surface Elev. 176.02 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion 174.5 m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown SILTY CLAY			1		
			2		
			2	NC	
	174.80				
Brown SAND (fill)		-1.5	1		
			1		
	174.19		1	NC	
Brown and Gray SILTY CLAY			1		
			2	10	32
			2	B	
		-3.0	1		
			1	67	28
			3	S/15	
			1		
			2	77	28
			3	S/15	
		-4.5	1		
			3	77	28
			4	S/15	
			1		
			3	134	27
			4	S/15	
	170.23				
Gray SANDY SILTY CLAY		-6.0			
Gray SANDY SILTY CLAY (continued)			1		
			1	67	25
			3	S/15	
	169.62				
End of Boring					
End of Boring					
		-7.5			
		-9.0			
		-10.5			
		-12.0			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/11/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Cottonwood/Glen Carbon Roads LOGGED BY Larry Ford

SECTION 127-1R-3, (34-1)-1 LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO.
Station

BORING NO. #4 SW Quad
Station 707+354
Offset 11.28 m Left
Ground Surface Elev. 175.50 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion 173.2 m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown and Gray SILTY CLAY			2		
			3	96	26
			4	S/15	
	174.28				
Gray SILTY CLAY		-1.5	2		
			3	48	28
			5	S/5	
	173.52				
Brown and Gray SILTY CLAY			1		
			3	67	28
			3	S/10	
		-3.0	1		
			2	77	29
			3	S/15	
			1		
			2	57	29
			3	S	
	171.24				
Brown SILTY CLAY		-4.5	1		
			3	125	27
			5	S/15	
	170.47				
Brown Very SILTY CLAY			1		
			3	77	28
			4	S/15	
		-6.0			
Brown Very SILTY CLAY (continued)			1		
			3	86	25
			3	S	
	169.10				
End of Boring					
End of Boring					
		-7.5			
		-9.0			
		-10.5			
		-12.0			

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, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: H:\8086 IDOT D8\8 PTB194 0598086 010 WO1 IL159\CAD Sheets\0876M87-sht-BoringSheets.dgn

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & COTTONWOOD/GLEN CARBON ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	284

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date _____

ROUTE FAP 600 DESCRIPTION Environmental Testing (Traffic Signals at IL 159 and Glen Carbon Road) LOGGED BY _____

SECTION 127-1R-3, (34-1)-1 LOCATION SW corner, SEC. , TWP. , RNG. , Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO. _____
Station _____

BORING NO. E.T. #1
Station 707+364
Offset 4.88 m Left
Ground Surface Elev. 30.48 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter _____ m
Upon Completion _____ m
After ____ Hrs. _____ m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
PID = 0.4ppm					
Brown Silty Clay Loam					
PID = 0.4ppm					
	29.11				
Brown Silty Clay		-1.5			
PID = 0.6ppm					
	28.50				
Brown Silty Clay Loam					
PID = 0.2ppm					
		-3.0			
PID = 0.2ppm					
PID = 0.2ppm					
		-4.5			
	25.60				
End of Investigation					
Assume elevation 100 ft					
Background = 0.4ppm					
End of Boring		-6.0			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date _____

ROUTE FAP 600 DESCRIPTION Environmental Testing (Traffic Signals at IL 159 and Glen Carbon Road) LOGGED BY _____

SECTION 127-1R-3, (34-1)-1 LOCATION NW corner, SEC. , TWP. , RNG. , Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE _____

STRUCT. NO. _____
Station _____

BORING NO. E.T. #2
Station 707+390
Offset 7.92 m Left
Ground Surface Elev. 30.40 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter _____ m
Upon Completion _____ m
After ____ Hrs. _____ m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown Silty Clay					
PID = 1.1ppm					
		-1.5			
PID = 0.9ppm					
PID = 0.8ppm	28.65				
Brown Clay					
PID = 0.9ppm					
PID = 0.8ppm	27.74				
Brown Silty Clay		-3.0			
PID = 0.7ppm	26.52				
End of H.A. @ 13 ft					
Assume elevation 100 ft		-4.5			
Background Reading = 1.0 ppm					
Sampled at 3', 5', 6', 8', 9', and 13'.					
No readings above background level					
No odor or color indicating		-6.0			
contamination.					
End of Boring		-7.5			
		-9.0			
		-10.5			
		-12.0			

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, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: H:\8066_IDOT_Oasis_PTB 194_059\8066_010_WO_1_IL159\CAD Sheets\0876M87-sht-BoringSheets.dgn

HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & COTTONWOOD/GLEN CARBON ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	285
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/11/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Glen Carbon Road/Cottonwood Road in Glen Carbon LOGGED BY Larry Ford

SECTION 127TS-3-I LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD HAMMER TYPE

STRUCT. NO.
Station

BORING NO. 1 SE Quad
Station 909+77
Offset 84.0 ft Right
Ground Surface Elev. 574.80 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 568.3 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Silty CLAY			
	1		
	1	0.7	25
	2	S/10	
-5	1		
	1	0.4	30
	1	S/10	
568.30 ▼			
Brown and Gray Silty CLAY	1		
	1	0.3	32
	1	S/10	
-10	1		
	2	0.7	28
	2	S	
	1		
	3	0.7	29
	6	S/15	
560.80			
Gray and Brown Silty CLAY -15	1		
	4	1.3	28
	4	S/10	
	1		
	2	0.6	26
	4	S/15	
-20	1		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray and Brown Silty CLAY (continued) 553.80	3	0.9	26
	4	S/10	
END OF BORING			
End of Boring			
-25			
-30			
-35			
-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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/11/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Glen Carbon Road/Cottonwood Road in Glen Carbon LOGGED BY Larry Ford

SECTION 127TS-3-I LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM, Latitude , Longitude

COUNTY Madison DRILLING METHOD HAMMER TYPE

STRUCT. NO.
Station

BORING NO. 2 NE Quad
Station 910+92
Offset 41.0 ft Right
Ground Surface Elev. 575.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 569.1 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty CLAY			
	1		
	2	0.7	27
	2	S	
-5	1		
	1	1.0	27
	2	S	
▼			
	1		
	2	0.9	28
	3	S	
-10	1		
	2	0.8	27
	3	S/10	
	1		
	3	1.0	29
	4	S/15	
-15	1		
	3	1.2	27
	3	S/15	
	1		
	2	1.0	26
	3	S/10	
556.10			
-20	1		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Reddish Brown Silty Sandy Gravelly CLAY (continued) 554.60	2	0.6	22
	3	S/10	
END OF BORING			
End of Boring			
-25			
-30			
-35			
-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, form 137 (Rev. 8-99)

MODEL: Default
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HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & COTTONWOOD/GLEN CARBON ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	286

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/11/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Glen Carbon Road/Cottonwood Road in Glen Carbon LOGGED BY Larry Ford

SECTION 127TS-3-I LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD HAMMER TYPE

STRUCT. NO.
Station

BORING NO. 3 NW Quad
Station 910+63
Offset 59.0 ft Left
Ground Surface Elev. 577.50 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 572.5 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Silty CLAY			1		
			2		
			2	NC	
	573.50				
Brown Fill SAND ▼		-5	1		
			1		
	571.50		1	NC	
Brown and Gray Silty CLAY			1		
			2	0.1	32
			2	B	
		-10	1		
			1	0.7	28
			3	S/15	
			1		
			2	0.8	28
			3	S/15	
		-15	1		
			3	0.8	28
			4	S/15	
			1		
			3	1.4	27
			4	S/15	
	558.50				
Gray Sandy Silty CLAY		-20	1		
Gray Sandy Silty CLAY *(continued)*	556.50	-25	1	0.7	25
			3	S/15	
END OF BORING End of Boring		-30			
		-35			
		-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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 4/16/90

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Glen Carbon Road/Cottonwood Road in Glen Carbon LOGGED BY Larry Ford

SECTION 127TS-3-I LOCATION NW 1/4, SEC. 26, TWP. 4N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD HAMMER TYPE

STRUCT. NO.
Station

BORING NO. 4 SW Quad
Station 909+56
Offset 37.0 ft Left
Ground Surface Elev. 575.80 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 568.3 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown and Gray Silty CLAY			2		
			3	1.0	26
			4	S/15	
	571.80				
Gray Silty CLAY		-5	2		
			3	0.5	28
			5	S/5	
	569.30				
Brown and Gray Silty CLAY ▼			1		
			3	0.7	28
			3	S/10	
		-10	1		
			2	0.8	29
			3	S/15	
			1		
			2	0.6	29
			3	S	
	561.80				
Brown Silty CLAY		-15	1		
			3	1.3	27
			5	S/15	
	559.30				
Brown Very Silty CLAY			1		
			3	0.8	28
			4	S/15	
		-20	1		
Brown Very Silty CLAY *(continued)*	554.30	-25	3	0.9	25
			3	S	
END OF BORING End of Boring		-30			
		-35			
		-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, form 137 (Rev. 8-99)

MODEL: Default
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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & COTTONWOOD/GLEN CARBON ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	287
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/17/01

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Junction Drive (Cottonwood Mall Entrance) LOGGED BY Larry Ford

SECTION 127-1R-3, (34-1)-1 LOCATION SE 1/4, SEC. 23, TWP. 4N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO.
Station

BORING NO. #3 S Quad
Station 707+676.5
Offset 20.50 m Right
Ground Surface Elev. 176.85 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion 172.4 m ▽
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
ASPHALT and ROCK	176.70				
Brown SILTY LOAM (fill in parking lot)			5		
			7 / 7	96 S/5	21
		-1.5	5		
	175.17		3	201	22
Gray SILTY CLAY			5	S/5	24
			3	192 S/10	
	174.26		3 / 3	163 S/15	26
Gray and Brown SILTY CLAY LOAM		-3.0	2		
			2 / 2	86 S/15	29
			3		
			4 / 5	144 S/15	27
		▽ -4.5	2		
			2 / 2	96 S/20	31
	171.82				
Gray SILTY CLAY LOAM			2		
			2 / 3	115 S/15	32
		-6.0			

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Gray SILTY CLAY LOAM (continued)			0		
	170.45		2 / 2	172 B	29
End of Boring					
End of Boring		-7.5			
		-9.0			
		-10.5			
		-12.0			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/17/01

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Junction Drive (Cottonwood Mall Entrance) LOGGED BY Mark Denton

SECTION 127-1R-3, (34-1)-1 LOCATION SE 1/4, SEC. 23, TWP. 4N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO.
Station

BORING NO. #4 N Quad
Station 707+702.6
Offset 20.50 m Left
Ground Surface Elev. 178.34 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion Dry Hole m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown and Gray SILTY CLAY LOAM			5		
			6 / 7		
		-1.5	5		
			6 / 7	105 S/15	26
			1		
			3 / 2	48 S/15	29
		-3.0	3		
	175.14		4 / 5	220 S/15	25
Gray and Brown SILTY LOAM			2		
			3 / 4	125 S/10	27
	173.92	-4.5	2		
Brown SILTY CLAY LOAM	173.46		3 / 3	105 B	26
End of Boring					
End of Boring		-6.0			

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, form 137 (Rev. 8-99)

MODEL: Default
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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & JUNCTION DRIVE
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	288

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 10/27/86

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Junction Drive (Cottonwood Mall Entrance) LOGGED BY J. King

SECTION 127-1R-3, (34-1)-1 LOCATION SE 1/4, SEC. 23, TWP. 4N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO.
Station

BORING NO. 1 East Quad
Station 707+705.7
Offset 9.75 m Right
Ground Surface Elev. 176.24 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion 175.5 m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown and Gray SILT					
			48		25
	175.47				
Brown and Gray SILTY CLAY					
	175.02		144		25
Brown and Gray SILTY CLAY TILL		-1.5			
			144		34
			96		33
		-3.0			
			96		31
			96		31
		-4.5			
			96		31
	171.36				
End of Hand Auger Due to inaccessability or buried utilities, hand augers were used. Qu values obtained from Pocket		-6.0			

Description	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Penetrometer End of Boring				
	-7.5			
	-9.0			
	-10.5			
	-12.0			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 10/27/86

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Junction Drive (Cottonwood Mall Entrance) LOGGED BY J. King

SECTION 127-1R-3, (34-1)-1 LOCATION SE 1/4, SEC. 23, TWP. 4N, RNG. 8W, 3rd PM.
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO.
Station

BORING NO. 2 West Quad
Station 707+674
Offset 13.72 m Left
Ground Surface Elev. 176.30 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter m
Upon Completion 175.5 m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown and Gray SILT					
	175.38			48	32
Brown and Gray SILTY CLAY					
		-1.5			
	174.47			192	34
Brown and Gray SILTY CLAY TILL					
			144		33
		-3.0			
			96		31
			96		31
		-4.5			
	171.42		96		31
End of Hand Auger Due to inaccessability or buried utilities, hand augers were used. Qu values obtained from Pocket		-6.0			

Description	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Penetrometer End of Boring				
	-7.5			
	-9.0			
	-10.5			
	-12.0			

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, form 137 (Rev. 8-99)

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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & JUNCTION DRIVE
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	289
		CONTRACT NO. 76M87		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/23/93

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Main Street in Collinsville LOGGED BY L. Ford

SECTION 31TS-1 LOCATION NW 1/4, SEC. 34, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE DCP

STRUCT. NO. N/A
Station N/A

BORING NO. 1 NE Quad
Station 80+22
Offset 40.0 ft Left
Ground Surface Elev. 560.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Concrete & Cinders	559.50			0.5	28
Gray and Brown Very Silty CLAY	558.00		9	0.8	23
Brown Silty CLAY				2.2	28
			2	2.0	28
	555.00	-5		2.2	29
Brown Silt LOAM			7	1.0	29
				0.3	20
			11	0.8	30
				1.0	28
		-10	11	1.2	27
				1.1	27
				1.1	28
	547.00			1.1	31
END OF HAND AUGER					
Pocket Penetrometer used for Qu		-15			
Due to inaccessability or buried utilities, Hand Augers were used. "N" values shown are calibrated from a curve converting Dynamic Cone N to SPT "N". Reference ASTM STP 399					
End of Boring		-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/23/93

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 and Main Street in Collinsville LOGGED BY L. Ford

SECTION 31TS-1 LOCATION NW 1/4, SEC. 34, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE DCP

STRUCT. NO. N/A
Station N/A

BORING NO. 2 SE Quad
Station 80+40
Offset 30.0 ft Right
Ground Surface Elev. 560.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After ____ Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Concrete Sidewalk & Cinders	559.00			1.0	26
Brown Silty CLAY			6	1.2	27
				1.5	27
			10	1.7	27
	555.00	-5		1.3	27
Brown Silt LOAM			7	1.0	27
				0.8	27
			9	0.8	27
				0.8	28
		-10	10	0.7	25
				0.6	29
				0.8	30
	547.00			1.3	29
END OF HAND AUGER					
Pocket Penetrometer used for Qu		-15			
Due to inaccessability or buried utilities, Hand Augers were used. "N" values shown are calibrated from a curve converting Dynamic Cone N to SPT "N". Reference ASTM STP 399					
End of Boring		-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)

BBS, form 137 (Rev. 8-99)

MODEL: Default
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HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & MAIN STREET (COLLINSVILLE)
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	290
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 10/5/00

ROUTE FAP 600 DESCRIPTION Traffic Signal at IL 143/157/159 and Main Street in Edwardsville LOGGED BY Larry Ford

SECTION 34-1 LOCATION Center, SEC. 22, TWP. 4N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.
Station

BORING NO. TS-01 SW Quad
Station 90+146
Offset 13.00 m Right
Ground Surface Elev. 165.60 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 163.2 m ▼
Upon Completion m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
ROCK BACKFILL in tank removal location (Fines to 2" size gravel)					
				NC	
		-1.5	2		
			2 2	NC	
Split Spoon Sampler dropped from 163.47m to 162.25m (approx. 1.2m) with one blow				NR	
Brown, Wet Sand in SPT sampler rods		-3.0			
	161.03	-4.5	2		
Gray Silty Clay LOAM (Smells Contaminated)	160.57		1 2	67 S/10	
Gray & Brown Silty CLAY			4		
			4 5	86 B	
		-6.0			

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Gray & Brown Silty CLAY (continued)			3		
			2 3	96 S/15	
	158.90		3		
Brown & Gray Clay LOAM			4 5	172 S/10	
		-7.5	4		
			4 5	192 S/10	
	157.68				
End of Boring End of Boring					
		-9.0			
		-10.5			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 11/19/91

ROUTE FAP 600 DESCRIPTION Traffic Signal at IL 143/157/159 and Main Street in Edwardsville LOGGED BY Larry Ford

SECTION 34-1 LOCATION Center, SEC. 11, TWP. 4N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE DCP

STRUCT. NO.
Station

BORING NO. TS-03 NE Quad
Station 90+166.5
Offset 11.00 m Left
Ground Surface Elev. 165.20 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter Dry m
Upon Completion m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Concrete	165.05				
Cinders	164.89				
Brown Silty CLAY (w/ brick)	164.59		4	NC 67	26
Brown Silty CLAY				115	29
			10	201	30
	163.67	-1.5		192	27
Brown & Gray Silty CLAY			6	172	27
				48	30
			3	48	33
				77	30
	162.15	-3.0	12	105	25
Gray Clay SILT				220	27
	161.54			105	25
End of Hand Auger					
Pocket Penetrometer used for Qu					
Due to inaccessability or buried utilities, Hand Augers were used. "N" values shown are calibrated from a curve converting Dynamic Cone N to SPT "N". Reference ASTM STP 399		-4.5			
End of Boring		-6.0			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 11/17/91

ROUTE FAP 600 DESCRIPTION Traffic Signal at IL 143/157/159 and Main Street in Edwardsville LOGGED BY Larry Ford

SECTION 34-1 LOCATION Center, SEC. 11, TWP. 4N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE DCP

STRUCT. NO.
Station

BORING NO. TS-02 SE Quad
Station 90+174.14
Offset 14.63 m Right
Ground Surface Elev. 165.30 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter Dry m
Upon Completion m
After Hrs. m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Concrete Sidewalk	165.15				
Brown Silty CLAY (with sand cinders & rock)			1		31
	164.38			NC	
Brown Silty CLAY			8	192	30
		-1.5		172	29
	163.47		7	144	28
Brown & Gray Very Silty CLAY				57	29
			5	29	30
	162.56			48	33
Brown & Gray Clay SILT (with cinders & broken brick)	162.10	-3.0	5	NC	
				96	29
Brown Silty CLAY				105	29
	161.34				
End of Hand Auger					
Pocket Penetrometer used for Qu		-4.5			
Due to inaccessability or buried utilities, Hand Augers were used. "N" values shown are calibrated from a curve converting Dynamic Cone N to SPT "N". Reference ASTM STP 399					
End of Boring		-6.0			

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, form 137 (Rev. 8-99)

MODEL: Default
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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & MAIN STREET (EDWARDSVILLE)
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	291

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/30/08

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 & Main Street LOGGED BY S. Wiszkon

SECTION 60-(30,31,128)-1 LOCATION , SEC. 34, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. TS 11 SW Quad
Station 157+41
Offset 32.0 ft LT
Ground Surface Elev. 565.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 553.0 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt & Concrete	564.00			--	--
Brown Silty Clay LOAM				1.2	33
				1.5	29
				1.5	28
		-5		0.8	27
				0.5	20
				0.8	27
				0.6	28
				0.8	28
		-10		0.8	27
				1.0	29
	553.00 ▼			1.1	30
Gray/Brown Silty Clay LOAM	552.00			1.1	--
END OF HAND AUGER End of Boring		-15			
		-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/23/93

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 & Main Street LOGGED BY L. Ford

SECTION 60-(30,31,128)-1 LOCATION , SEC. 34, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE DCP

STRUCT. NO. N/A
Station N/A

BORING NO. TS 12 SE Quad
Station 157+76
Offset 22.0 ft RT
Ground Surface Elev. 560.00 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter Dry Hole ft
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Concrete Sidewalk & Cinders	559.00			1.0	20
Brown Silty CLAY			6	1.2	27
				1.5	27
			10	1.7	27
	555.00	-5		1.3	27
Brown Silt LOAM			7	1.0	27
				0.8	27
			9	0.8	27
				0.8	28
		-10	10	0.7	25
				0.6	29
				0.8	30
	547.00			1.3	20
END OF HAND AUGER End of Boring		-15			
		-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)

BBS, form 137 (Rev. 8-99)

MODEL: Default
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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = nseelhoefer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & MAIN STREET
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	292

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/30/08

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 & Main Street LOGGED BY S. Wiszkon

SECTION 60-(30,31,128)-1 LOCATION , SEC. 34, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. TS 13 NW Quad
Station 158+92
Offset 46.0 ft LT
Ground Surface Elev. 563.80 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter Dry Hole ft
Upon Completion ft
After Hrs. ft

	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt & Concrete				--	--
	562.30			--	--
Mottled Silty CLAY	561.80			0.5	28
Gray Silty Clay LOAM				1.4	34
				0.8	37
With Brown	558.80	-5		1.0	31
Brown Mottled Silty Clay LOAM				0.6	31
	556.80			0.5	30
Gray Silt LOAM				0.6	28
				0.8	28
	553.80	-10		0.8	28
Gray/Brown Silty Clay LOAM	552.80			1.0	30
END OF HAND AUGER End of Boring		-15			
		-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/30/08

ROUTE FAP 600 DESCRIPTION Traffic Signals at IL 159 & Main Street LOGGED BY S. Wiszkon

SECTION 60-(30,31,128)-1 LOCATION , SEC. 34, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison / St. Clair DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. TS 14 NE Quad
Station 158+39
Offset 61.0 ft RT
Ground Surface Elev. 563.80 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter Dry Hole ft
Upon Completion ft
After Hrs. ft

	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, Concrete, Rubble				--	--
	561.80			--	--
Brown Silty CLAY				2.1	28
				1.8	27
	558.80	-5		1.0	27
Brown Mottled SILT				0.6	29
				0.5	29
				0.8	26
				0.8	27
		-10		0.6	28
				0.8	29
	551.80			1.0	29
Brown/Gray SILT				0.8	20
				0.8	28
	548.80	-15		1.1	28
END OF HAND AUGER End of Boring					
		-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)

BBS, form 137 (Rev. 8-99)

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HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

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	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & MAIN STREET
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	293

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/13/91

ROUTE FAP 600 DESCRIPTION IL 159 at Vadalabene in Maryville LOGGED BY Larry Ford

SECTION 127-3R-3 LOCATION SW 1/4, SE 1/4, SEC. 2, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automtic

STRUCT. NO.
Station

BORING NO. 1 NE Quad
Station 702+644.6
Offset 17.90 m Right
Ground Surface Elev. 178.55 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 175.7 m
Upon Completion m
After 1 Hrs. 177.7 m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown and Gray Silty CLAY			2		
			3 6	163 S/15	31
		-1.5	3		
			4 4	144 S/15	32
	176.42		2		
Brown and Gray SILT (Partically Saturated)			4 5	96 S	27
	175.66	-3.0	2		
Gray Clayey SILT			5 7	96 S	29
			4		
			4 5	163 S/15	27
		-4.5	2		
	173.68		3 5	96 S	28
End of Boring End of Boring		-6.0			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/13/91

ROUTE FAP 600 DESCRIPTION IL 159 at Vadalabene in Maryville LOGGED BY Larry Ford

SECTION 127-3R-3 LOCATION SW 1/4, SE 1/4, SEC. 2, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE DCP

STRUCT. NO.
Station

BORING NO. 2 SW Quad
Station 702+605.4
Offset 13.70 m Left
Ground Surface Elev. 178.34 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 177.1 m
Upon Completion m
After 0 Hrs. 177.5 m

Description	Elev.	DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
				67	31
Dark Gray Silty CLAY			5	115	29
				96	28
	177.42				
Gray and Brown Silty CLAY			7	144	32
		-1.5		96	33
	176.72				
Brown and Gray Very Silty CLAY			5	67	30
				67	33
			7	96	28
	175.90				
Gray Clayey SILT				172	30
		-3.0	8	354	30
				268	31
				163	30
				144	29
	174.38				
End of Hand Auger		-4.5			
Pocket Penetrometer used for Qu					
Due to inaccessability or buried utilities, Hand Augers were used. "N" values shown are calibrated from a curve converting Dynamic Cone N to SPT "N". Reference ASTM STP 399 End of Boring		-6.0			

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, form 137 (Rev. 8-99)

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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

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	DRAWN -	REVISED -	
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PLOT DATE = 6/30/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & VADALABENE ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1,30)RS-4	MADISON	328	294

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/13/91

ROUTE FAP 600 DESCRIPTION IL 159 at Vadalabene in Maryville LOGGED BY Larry Ford

SECTION 127R-2 LOCATION SW 1/4, SE 1/4, SEC. 2, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automtic

STRUCT. NO.
Station

BORING NO. 1 NE Quad
Station 702+644.6
Offset 58.7 ft Right
Ground Surface Elev. 585.80 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 576.3 ft
Upon Completion ft
After 1 Hrs. 583.0 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown and Gray Silty CLAY			2		
			3 6	1.7 S/15	31
		-5	3		
			4 4	1.5 S/15	32
	578.80		2		
Brown and Gray SILT (Partically Saturated)			4 5	1.0 S	27
	576.30	-10	2		
Gray Clayey SILT			5 7	1.0 S	29
			4		
			4 5	1.7 S/15	27
		-15	2		
	569.80		3 5	1.0 S	28
END OF BORING End of Boring		-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)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 3/13/91

ROUTE FAP 600 DESCRIPTION IL 159 at Vadalabene in Maryville LOGGED BY Larry Ford

SECTION 127R-2 LOCATION SW 1/4, SE 1/4, SEC. 2, TWP. 3N, RNG. 8W, 3rd PM,
Latitude , Longitude

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE DCP

STRUCT. NO.
Station

BORING NO. 2 SW Quad
Station 702+605.4
Offset 45.0 ft Left
Ground Surface Elev. 585.10 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 581.1 ft
Upon Completion 582.3 ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Gray Silty CLAY				0.7	31
			5	1.2	29
	582.10			1.0	28
Gray and Brown Silty CLAY			7	1.5	32
		-5		1.0	33
	579.80			0.7	30
Brown and Gray Very Silty CLAY			5	0.7	33
	577.10		7	1.0	28
Gray Clayey SILT				1.8	30
		-10	8	3.7	30
				2.8	31
				1.7	30
	572.10			1.5	20
END OF HAND AUGER **Pocket Penetrometer used for Qu** **Due to inaccessability or buried utilities, Hand Augers were used. "N" values shown are calibrated from a curve converting Dynamic Cone N to SPT "N". Reference ASTM STP 399** End of Boring		-15 -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)

BBS, form 137 (Rev. 8-99)

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HMG ENGINEERS
IL PROF DESIGN FIRM 184.000899

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	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 6/30/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 & VADALABENE ROAD
SOIL BORINGS

SCALE: SHEET OF SHEETS STA. TO STA.

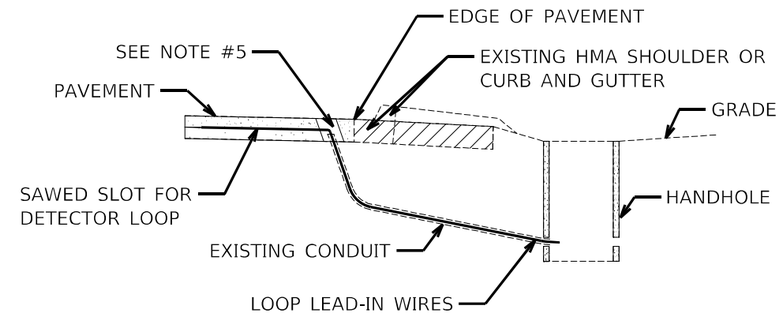
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8887	(122,122-1.30)RS-4	MADISON	328	295

CONTRACT NO. 76M87

ILLINOIS FED. AID PROJECT

ELECTRICAL GENERAL NOTES

1. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.



DETAIL A

(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE.
3. INSTALL NEW LOOP-IN WIRES TO EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING CONDUIT.
6. LOCATE UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REPLACEMENT LEGEND

- EX. HANDHOLE
- EX. TRAFFIC SIGNAL CONTROLLER
- EX. DETECTOR LOOP
- EXISTING CONDUIT
- PROPOSED DETECTOR LOOP

SCHEDULE OF QUANTITIES

PAY ITEM CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	IL 159 & COUNTRY LANE	IL 159 & ST. CHARLES DRIVE	IL 159 & SB I-55/ WB I-70 EXIT RAMP	IL 159 & MARYVILLE TOWN CENTER DRIVE	IL 159 & MAIN STREET	IL 159 & VADALABENE DRIVE	IL 159 & IL 162	IL 159 & GLEN CROSSING ROAD	IL 159 & EB I-270 RAMPS	IL 159 & WB I-270 RAMPS	IL 159 & GLEN CARBON ROAD	IL 159 & JUNCTION ROAD	IL 159 & ILLINI/ LOWES	IL 159 & CENTER GROVE ROAD/ GOSHEN ROAD
88600600	DETECTOR LOOP REPLACEMENT	FOOT	25265	366	1833	681	2502	1625	1465	2076	1833	1894	2330	2593	1961	1731	2375

HIGHWAY STANDARDS

886001-01 DETECTOR LOOP INSTALLATIONS
886006-01 TYPICAL LAYOUT FOR DETECTION LOOPS

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	NUMBER OF TURNS	CALCULATED INDUCTANCE	CALCULATED RESISTANCE OHMS (Ω)
1. NB THRU CCO	6	6' X 6'		2	2.20
2. NB THRU CCO	6	6' X 6'		24	2.14
3. NB LT CD	1	6' X 50' (Q)	- 3	811	2.22
4. NB THRU CD	6	6' X 50' (Q)	- 3	811	2.17
5. NB THRU CD	6	6' X 50' (Q)	- 3	809	2.12
9. SB THRU CCO	2	6' X 6'		358.	2.71
10. SB THRU CCO	2	6' X 6'		355.	2.65
11. SB LT CD	5	6' X 50' (Q)	- 3	828.	2.57
12. SB THRU CD	2	6' X 50' (Q)	- 3	826	2.51
13. SB THRU CD	2	6' X 50' (Q)	- 3	822	2.45
16. EB LT CD	3	6' X 50' (Q)	- 3	85	3.27
17. EB THRU CD	3	6' X 50' (Q)	- 3	8	3.33
18. EB RT CD	3	6' X 50' (Q)	- 3		3.39

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.
Q=QUADRAPOLE

(*) = SEE DETAIL

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS" FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.
SEE "DETAIL" FOR INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUITS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 159 AND BELTLINE ROAD / PINE LAKE ROAD
DETECTOR LOOP REPLACEMENT PLAN

SCALE: 1"=20' | SHEET 2 OF 32 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
300	(122, 122-1, 30) RS-4	MADISON	328	297

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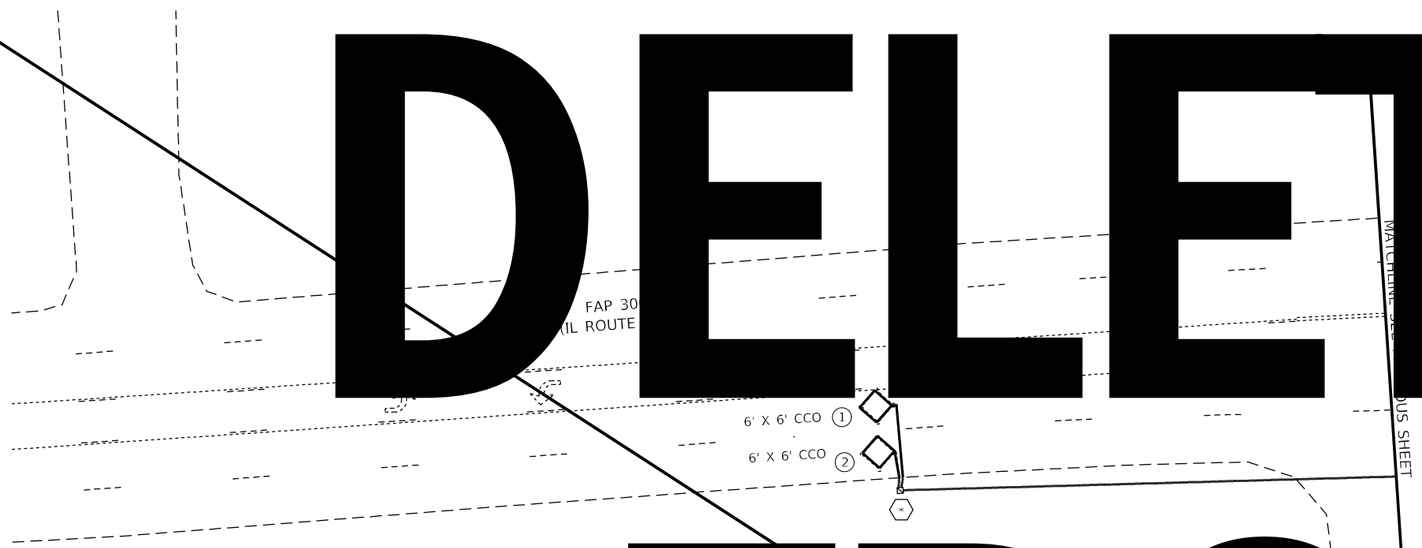

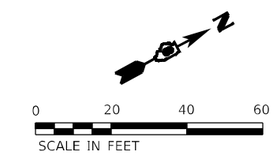

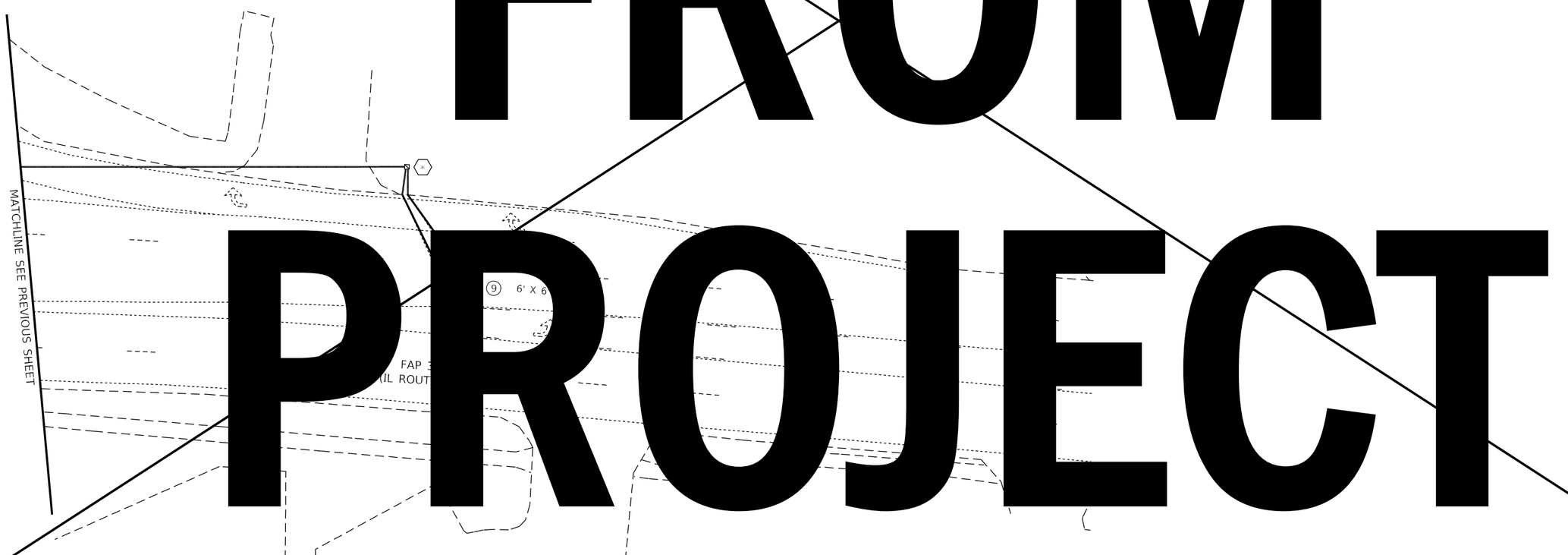

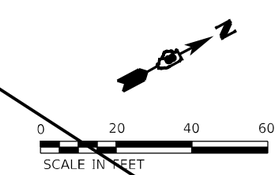

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		DRAWN -	REVISED -			600	(122, 122-1, 30) RS-4	MADISON	328 / 298
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 76M87	
	PLOT DATE = 10/25/2022	DATE -	REVISED -		SCALE: 1"=20' SHEET 3 OF 32 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

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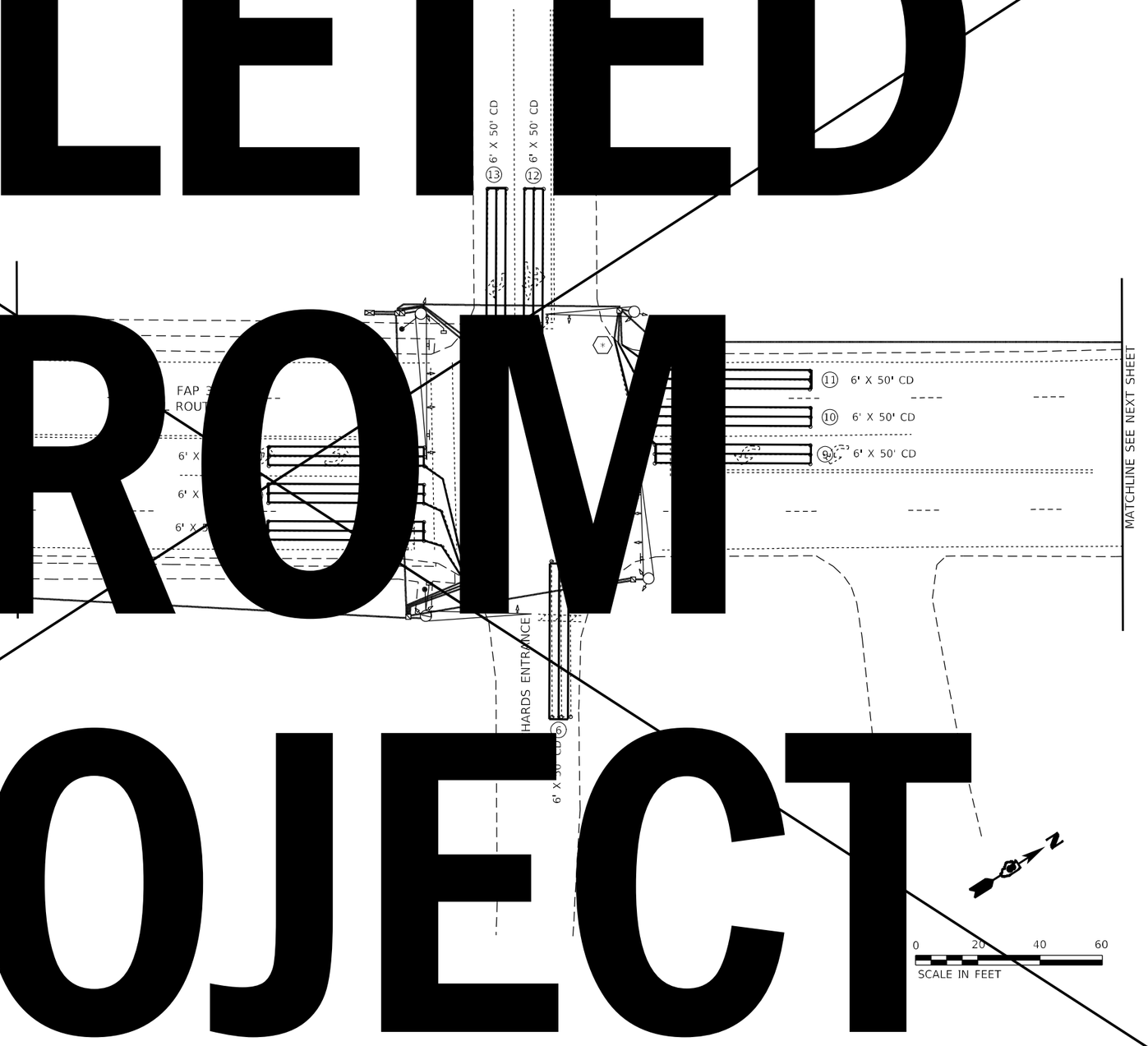
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS					
LOOP#	PHASE#	LOOP SIZE	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µh)	CALCULATED RESISTANCE
1. NB THRU CCO	6	[illegible]	[illegible]	344.6	[illegible]
2. NB THRU CCO	6	6'	[illegible]	340.5	2.31
3. NB LT CD	1	[illegible]0' (Q)	[illegible]	829.3	2.58
4. NB THRU CD	6	[illegible]0' (Q)	3 [illegible]	826.7	2.52
5. NB THRU CD	6	[illegible]0' (Q)	3 - [illegible]	824.3	2.46
6. WB THRU CD	4	[illegible]0' (Q)	3 - [illegible]	838.1	2.78
7. SB THRU CCO	2	6'	6 [illegible]	344.2	2.39
8. SB THRU CCO	2	6'	6 [illegible]	341.6	[illegible]
9. SB LT CD	5	[illegible]0' (Q)	3 - 6 [illegible]	819.9	[illegible]
10. SB THRU CD	2	[illegible] (Q)	3 - 6 [illegible]	816.8	[illegible]
11. SB THRU CD	2	[illegible]0' (Q)	3 - 6 [illegible]	814.6	2.24
12. EB THRU CD	3	[illegible]0' (Q)	3 - 6 [illegible]	802.3	1.96
13. EB RT CD	3	[illegible]0' (Q)	3 [illegible]	799.4	1.90

THE ABOVE VALUES ARE CA[illegible] OF COMBINED [illegible] LEAD-IN [illegible]CE AND RESISTANCE. ACTUAL [illegible] VALUES SHO[illegible] WITHIN +/- 20[illegible]SE VALUES.
Q=QUADRAPOLE

(*) = SEE DETAIL

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS" FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.
SEE "DETAIL" FOR INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUITS.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 159 AND CAMELOT DRIVE
DETECTOR LOOP REPLACEMENT PLAN

SCALE: 1"=20' | SHEET 4 OF 32 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122, 122-1, 30) RS-4	MADISON	328	299
		CONTRACT NO. 76M87		
		ILLINOIS	FED. AID PROJECT	

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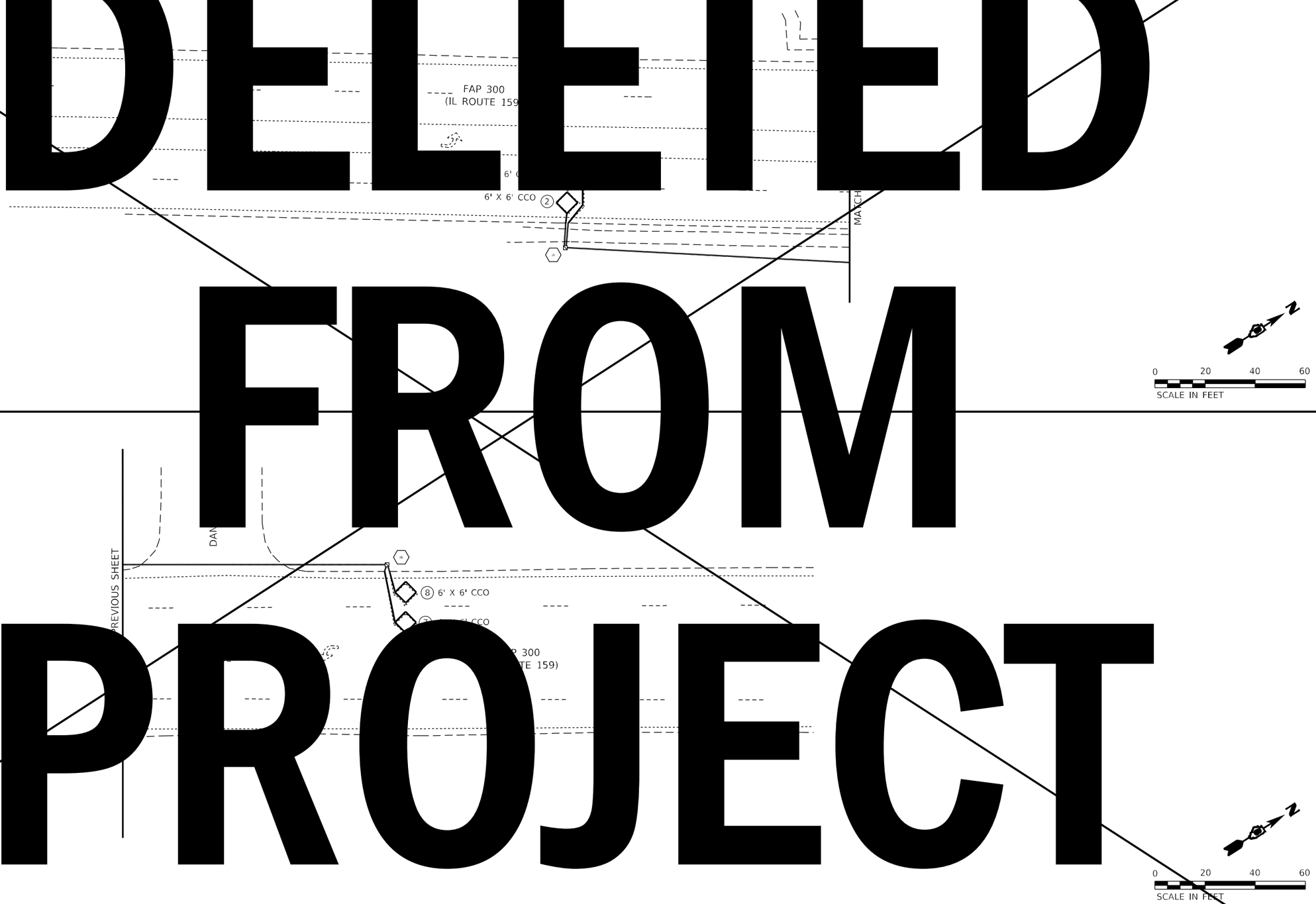

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		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 10/25/2022	DATE -	REVISED -		SCALE: 1"=20' SHEET 5 OF 32 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(122, 122-1, 30) RS-4	MADISON	328	300
		CONTRACT NO. 76M87		
		ILLINOIS FED. AID PROJECT		