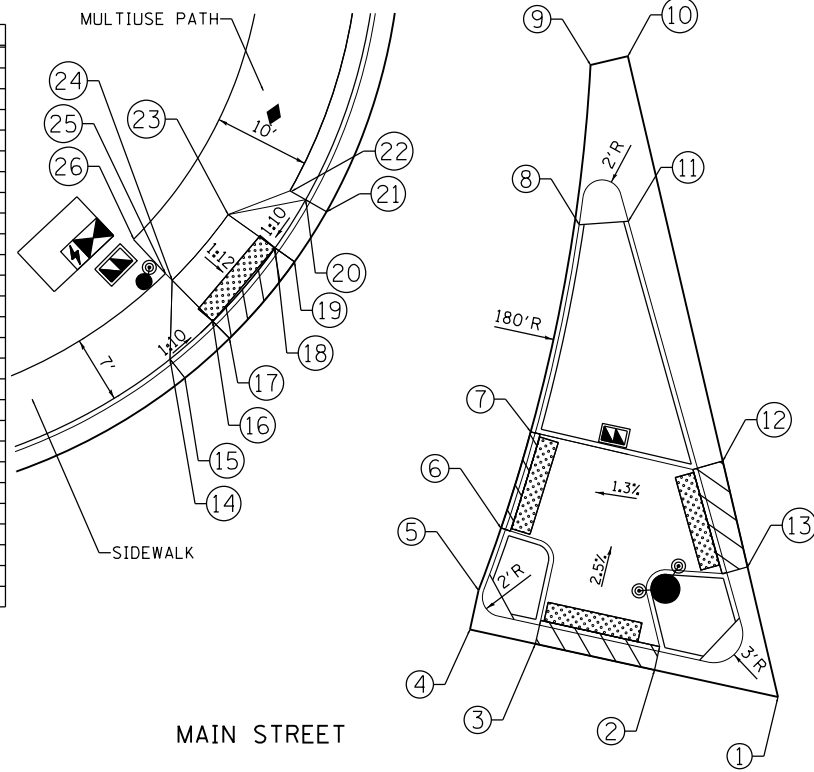
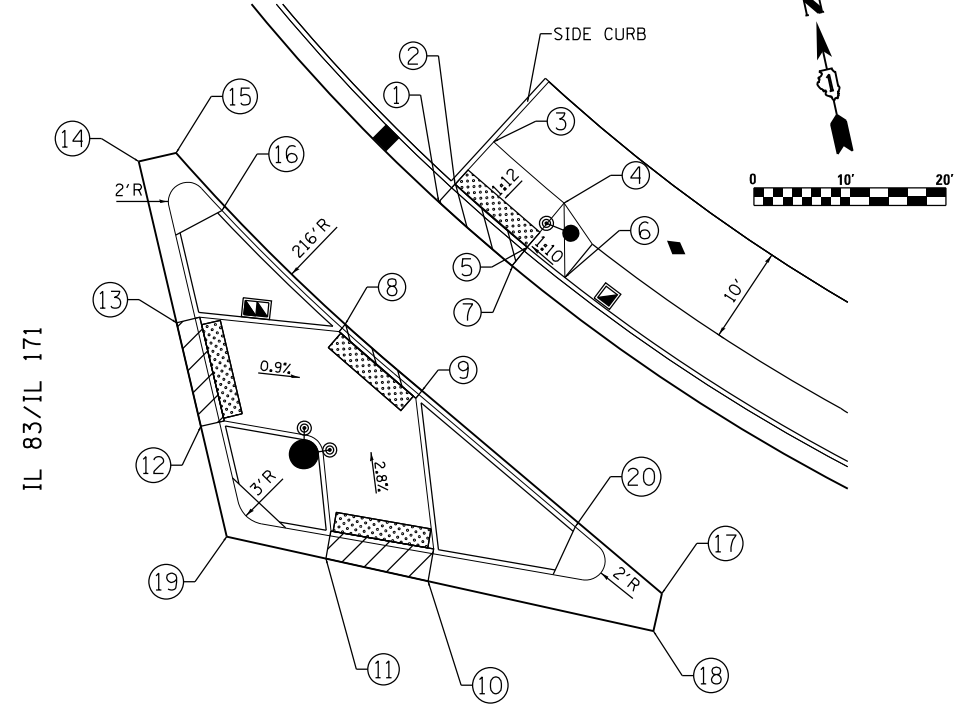


POINT	STATION	OFFSET	ELEV
1	399+38.13	39.00 LT	634.29
2	399+24.95	39.00 LT	634.17
3	399+12.24	39.00 LT	634.06
4	399+05.26	39.00 LT	634.00
5	399+05.26	43.18 LT	633.94
6	399+06.17	50.04 LT	633.82
7	399+07.03	60.47 LT	633.43
8	399+07.36	82.63 LT	632.78
9	399+04.94	99.15 LT	632.56
10	399+08.55	100.87 LT	632.65
11	399+12.28	84.09 LT	633.32
12	399+27.23	61.78 LT	633.82
13	399+32.12	51.56 LT	634.03
14	398+68.69	59.82 LT	632.30
15	398+70.63	58.25 LT	631.92
16	398+72.19	64.63 LT	631.76
17	398+74.29	63.27 LT	631.82
18	398+76.91	73.49 LT	631.72
19	398+79.21	72.51 LT	631.78
20	398+78.95	79.08 LT	632.09
21	398+81.34	78.34 LT	631.71
22	398+77.16	79.63 LT	631.73
23	398+71.39	75.84 LT	632.22
24	398+67.16	67.91 LT	632.26
25	398+66.32	68.45 LT	632.38
26	398+62.31	71.21 LT	632.30



NW CORNER

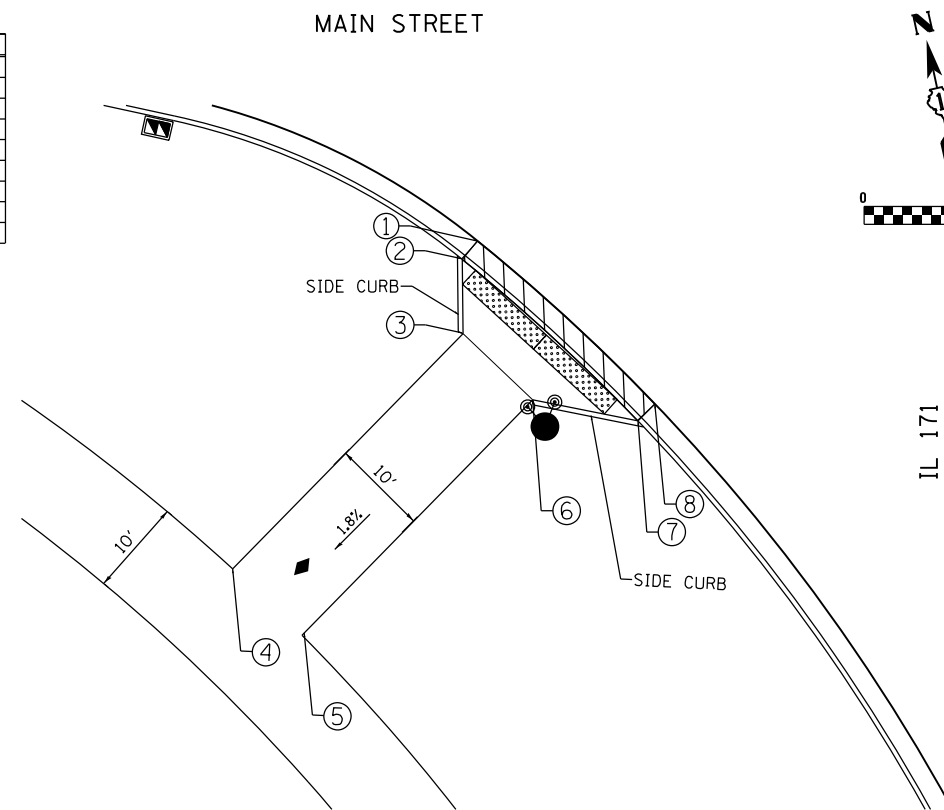
POINT	STATION	OFFSET	ELEV
1	400+38.57	77.82 LT	635.12
2	400+39.82	79.99 LT	635.06
3	400+42.82	85.18 LT	635.56
4	400+51.34	80.54 LT	635.69
5	400+48.61	75.20 LT	635.19
6	400+53.09	72.98 LT	635.69
7	400+47.47	72.97 LT	635.25
8	400+31.80	63.26 LT	635.57
9	400+41.11	58.23 LT	635.70
10	400+46.01	39.00 LT	636.26
11	400+35.13	39.00 LT	636.29
12	400+19.42	49.63 LT	636.01
13	400+14.61	59.63 LT	635.72
14	400+07.15	75.18 LT	635.30
15	400+10.75	76.91 LT	635.30
16	400+16.72	72.07 LT	635.37
17	400+70.08	43.00 LT	635.83
18	400+70.08	39.00 LT	635.83
19	400+24.53	39.00 LT	636.32
20	400+59.78	47.85 LT	635.92



IL 83

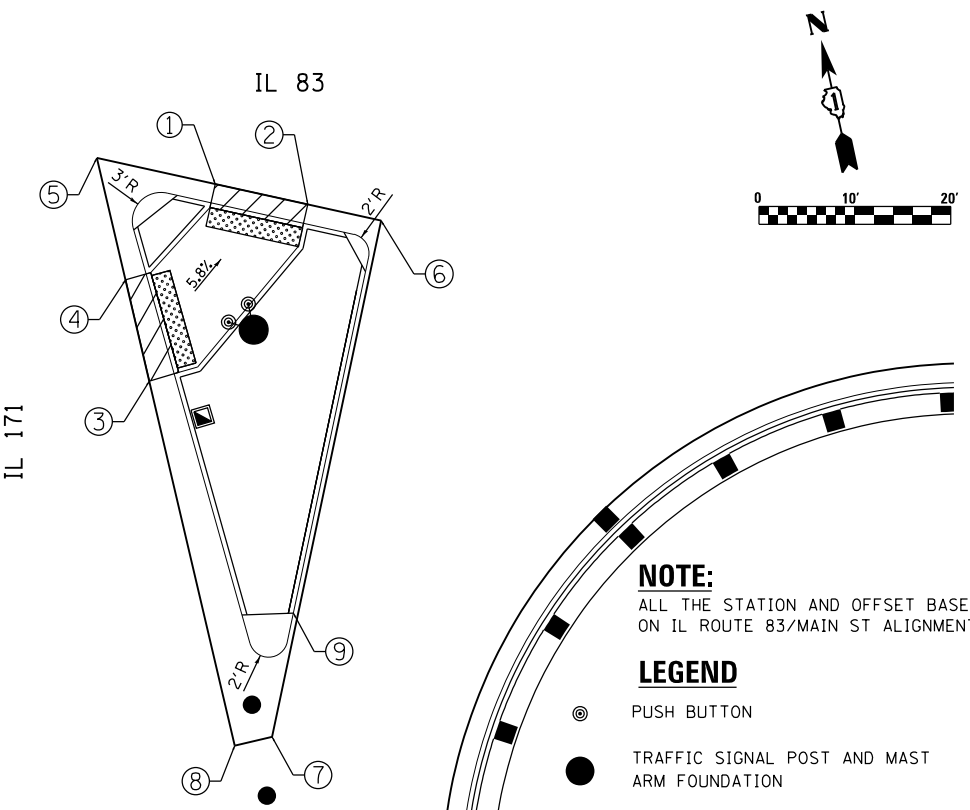
NE CORNER

POINT	STATION	OFFSET	ELEV
1	399+32.08	46.95 RT	634.28
2	399+30.95	49.18 RT	634.22
3	399+32.69	56.74 RT	634.18
4	399+14.48	85.80 RT	633.54
5	399+23.20	90.72 RT	633.83
6	399+41.25	61.90 RT	634.33
7	399+52.39	61.68 RT	634.57
8	399+53.78	59.60 RT	634.63



SW CORNER

POINT	STATION	OFFSET	ELEV
1	400+74.62	39.00 RT	636.12
2	400+84.50	39.00 RT	636.09
3	400+72.36	60.54 RT	637.53
4	400+67.67	50.76 RT	636.91
5	400+62.01	39.00 RT	636.17
6	400+92.33	39.00 RT	636.06
7	400+92.86	93.96 RT	638.90
8	400+89.26	95.70 RT	638.98
9	400+92.24	80.91 RT	638.24



SE CORNER

NOTE:
ALL THE STATION AND OFFSET BASED ON IL ROUTE 83/MAIN ST ALIGNMENT.

LEGEND

- ⊙ PUSH BUTTON
- TRAFFIC SIGNAL POST AND MAST ARM FOUNDATION
- HANDHOLE
- ▨ DEPRESSED CURB AND GUTTER
- ▤ DETECTABLE WARNING

FILE NAME = D:\60Y25-shr-intersec2.dgn



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PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

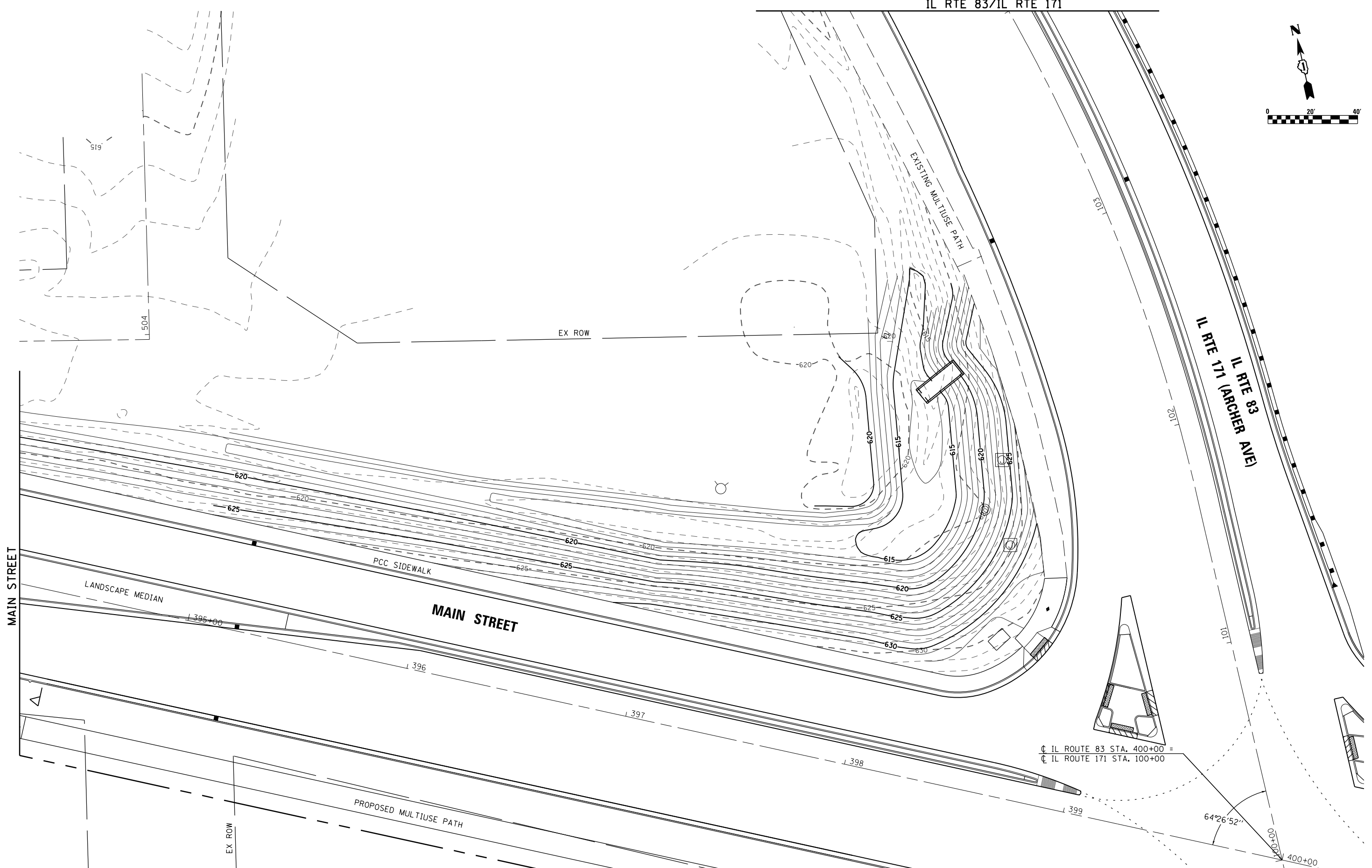
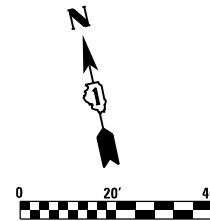
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
INTERSECTION ISLAND AND ADA RAMP'S DETAIL

SCALE: 1"=10' SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	101
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

IL RTE 83/IL RTE 171



CL IL ROUTE 83 STA. 400+00 =
CL IL ROUTE 171 STA. 100+00

64°26'52"

400+00

FILE NAME = D:\60Y25-shr-intersec3.dgn



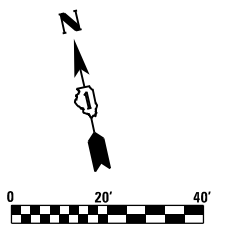
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

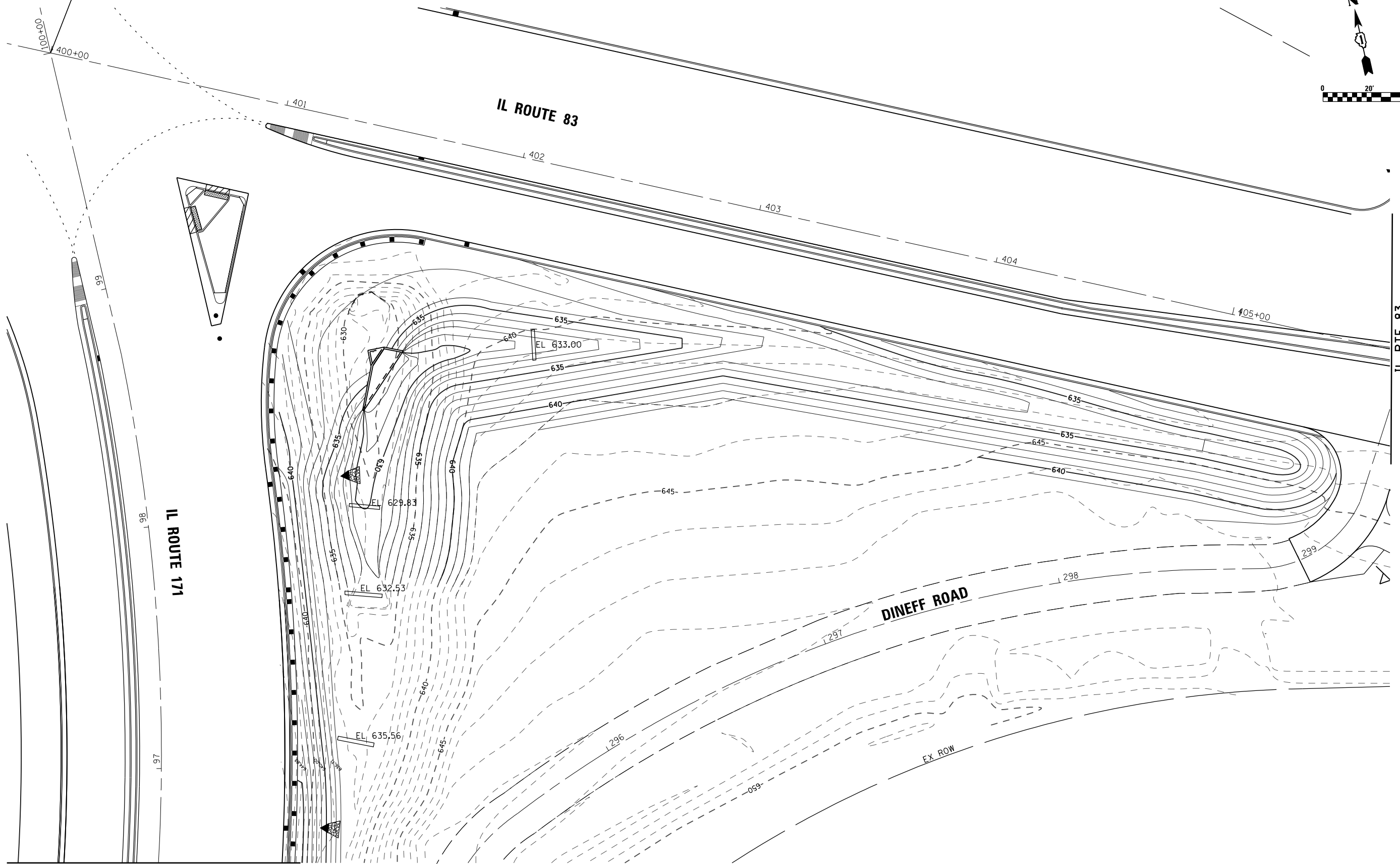
IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
INTERSECTION NW CORNER GRADING DETAIL

SCALE: 1"=20' SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	102
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



IL ROUTE 83 STA. 400+00 =
 IL ROUTE 171 STA. 100+00



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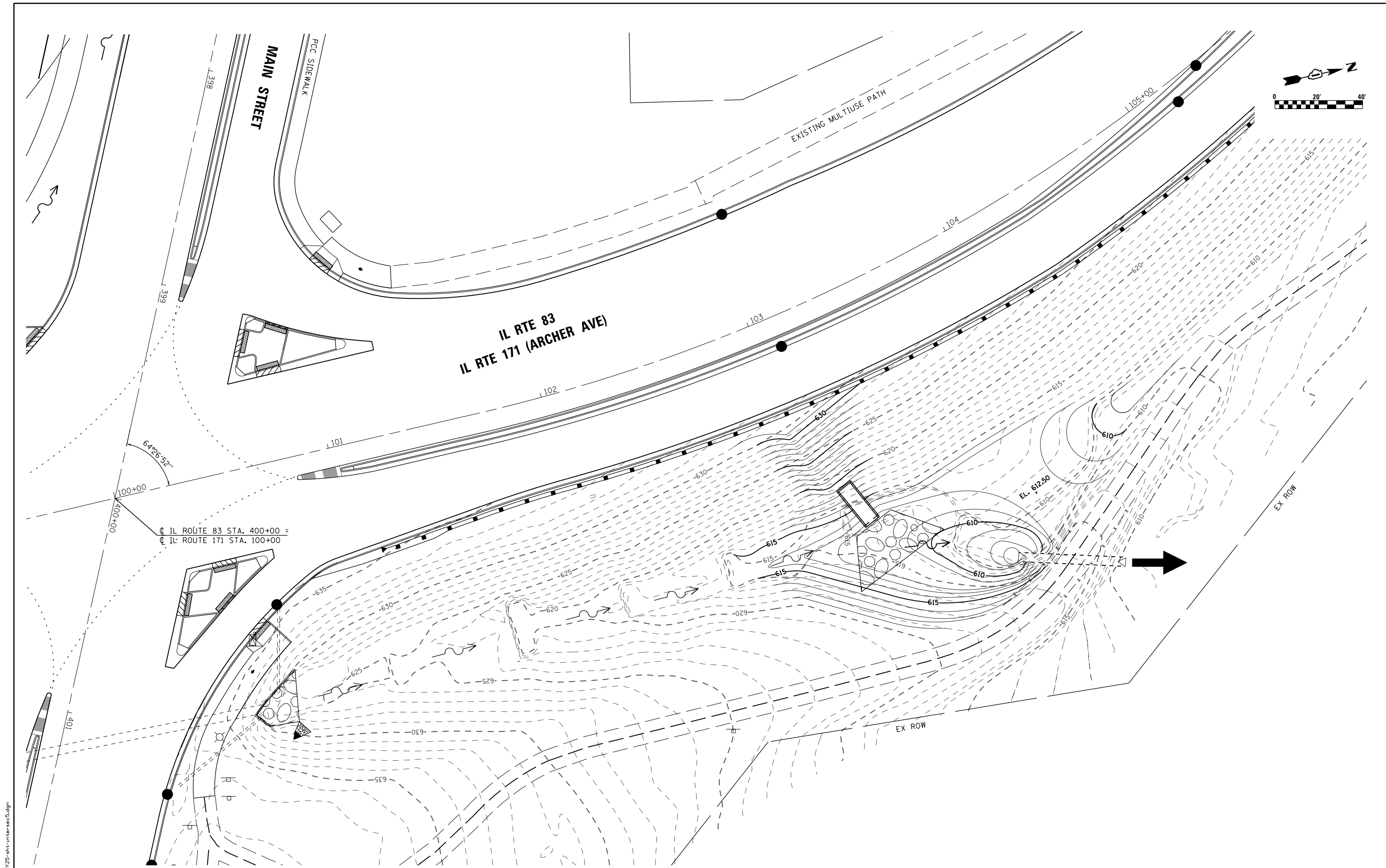
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PLOT SCALE = 48.0000' / in.	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
 INTERSECTION SE CORNER GRADING DETAIL**

SCALE: 1"=20' SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	103
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



IL ROUTE 83 STA. 400+00 =
 IL ROUTE 171 STA. 100+00

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RME Rubinos & Mesa Engineers, Inc.
 200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

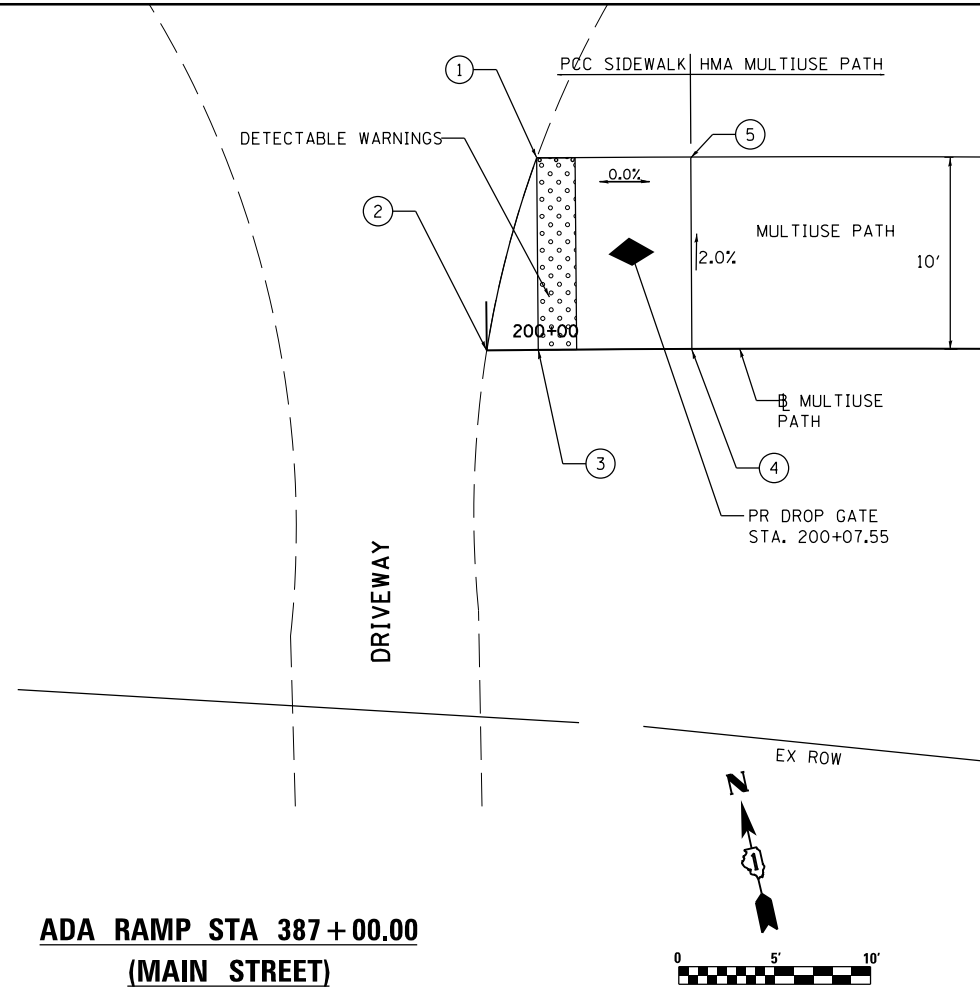
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	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

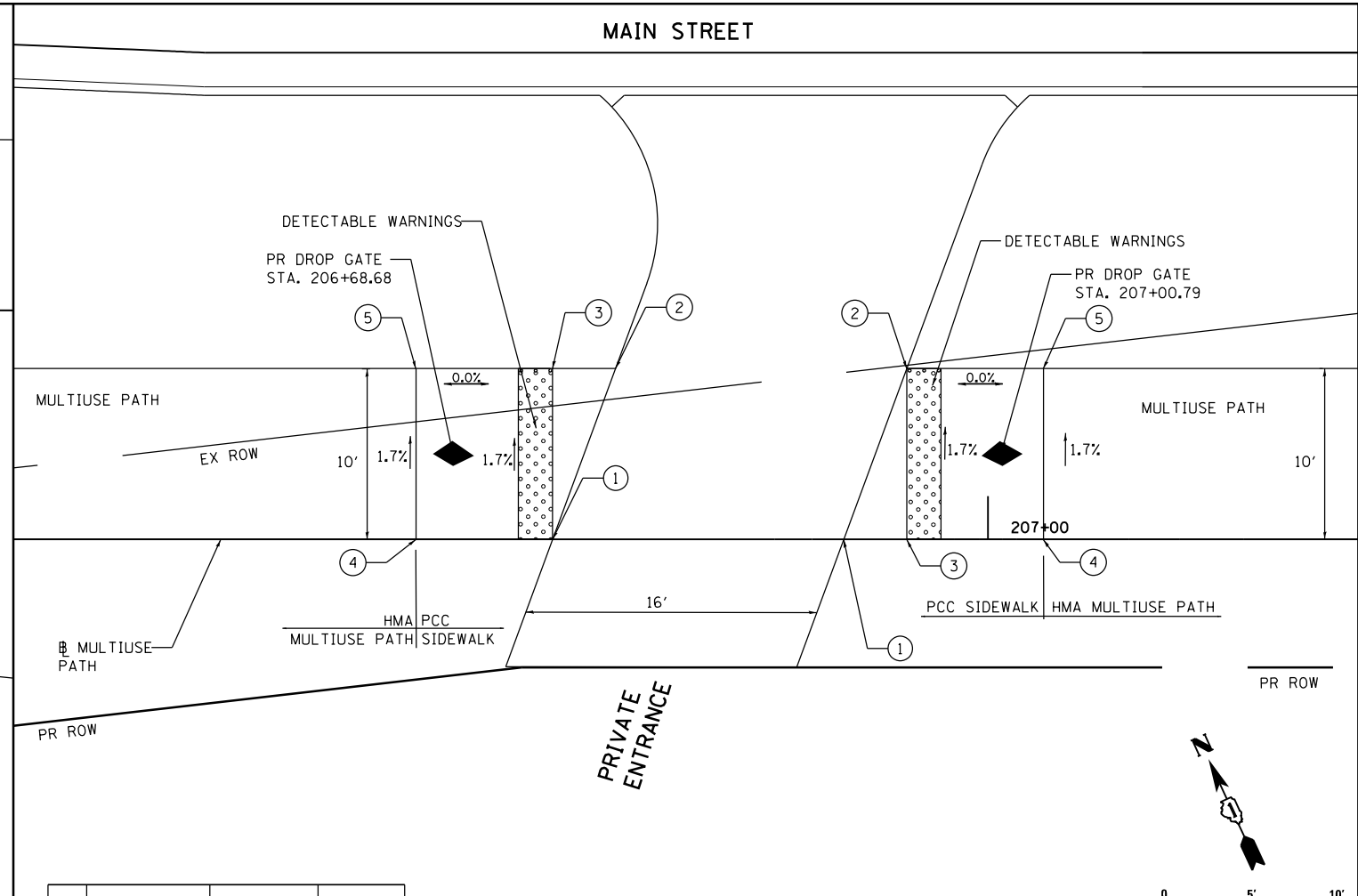
IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
 NE CORNER GRADING DETAIL
 SCALE: 1"=20' SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	104
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PT	STATION	OFFSET	ELEV
1	200+02.69	10.00 LT	628.65
2	200+00.00	00.00	628.85
3	200+02.68	00.00	628.85
4	200+10.68	00.00	628.85
5	200+10.68	10.00LT	628.65

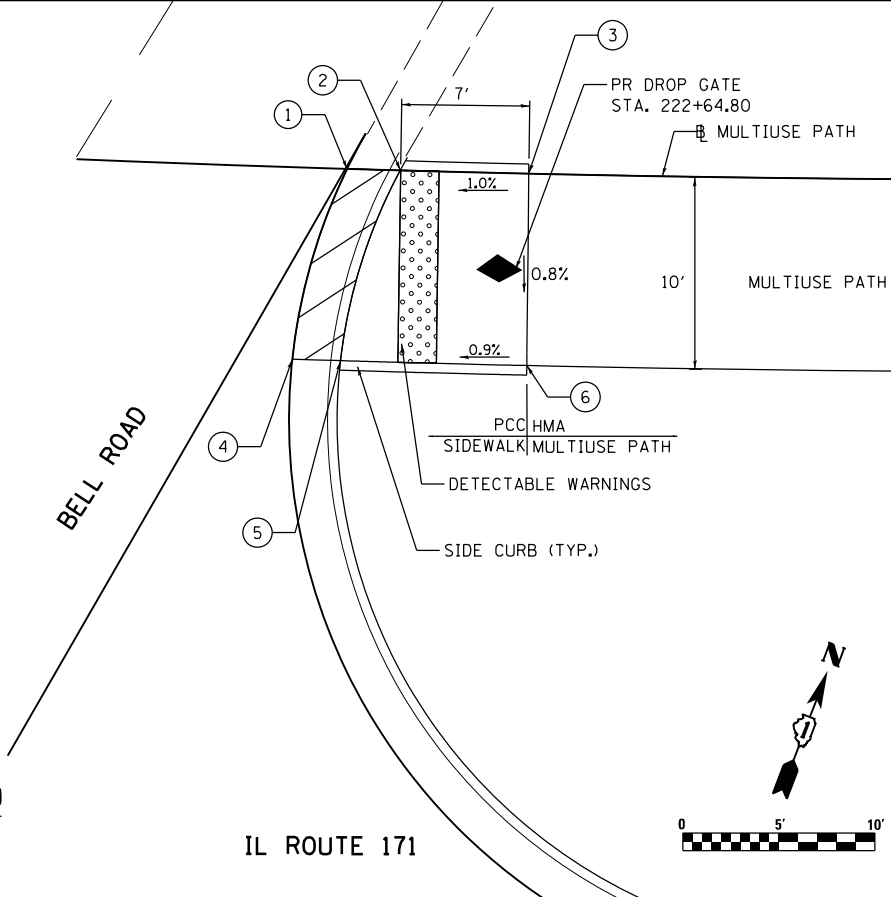


**ADA RAMP STA 387+00.00
(MAIN STREET)**



**ADA RAMP STA 394+43.09
(MAIN STREET)**

PT	STATION	OFFSET	ELEV
1	222+72.60	00.00	678.12
2	222+69.97	00.00	678.05
3	222+63.30	00.00	678.12
4	222+73.83	10.00 LT	678.00
5	222+71.35	10.00 LT	677.97
6	222+63.30	10.00 LT	678.04



**ADA RAMP STA 87+32.00
(IL ROUTE 171)**

PT	STATION	OFFSET	ELEV
1	206+74.50	00.00	625.17
2	206+78.18	10.00 LT	625.00
3	206+74.50	10.00 LT	625.00
4	206+66.50	00.00	625.17
5	206+66.50	10.00 LT	625.00

PT	STATION	OFFSET	ELEV
1	206+91.55	00.00	625.30
2	206+95.24	10.00 LT	625.13
3	206+95.24	00.00	625.30
4	207+03.24	00.00	625.30
5	207+03.24	10.00 LT	625.13

LEGEND

- DEPRESSED CURB AND GUTTER
- DETECTABLE WARNING

NOTE:

ALL THE STATION AND OFFSET BASED ON IL MULTIUSE PATH BASELINE LINE.

FILE NAME = D:\60Y25-shr-detail15.dgn



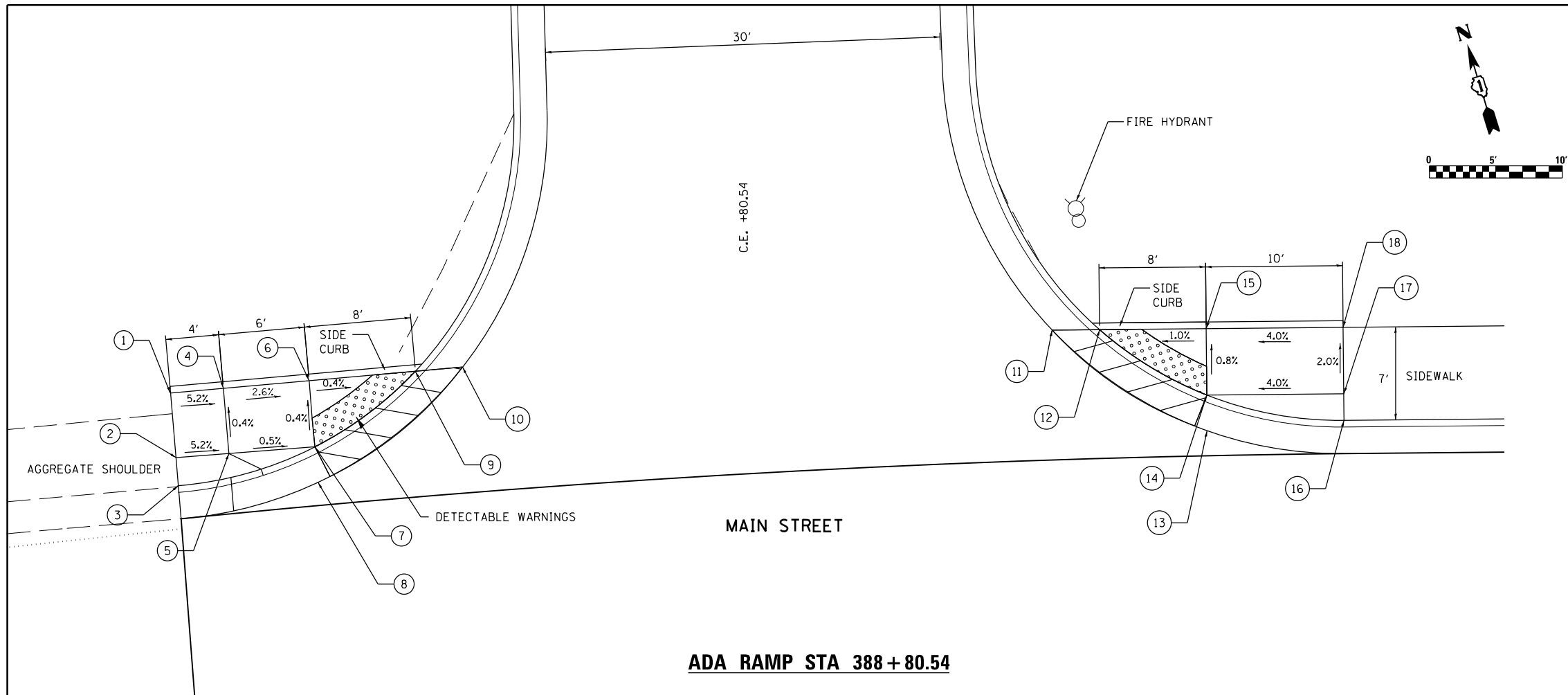
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DRAWN - VEA	REVISIONS -	
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PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
ADA RAMPS**

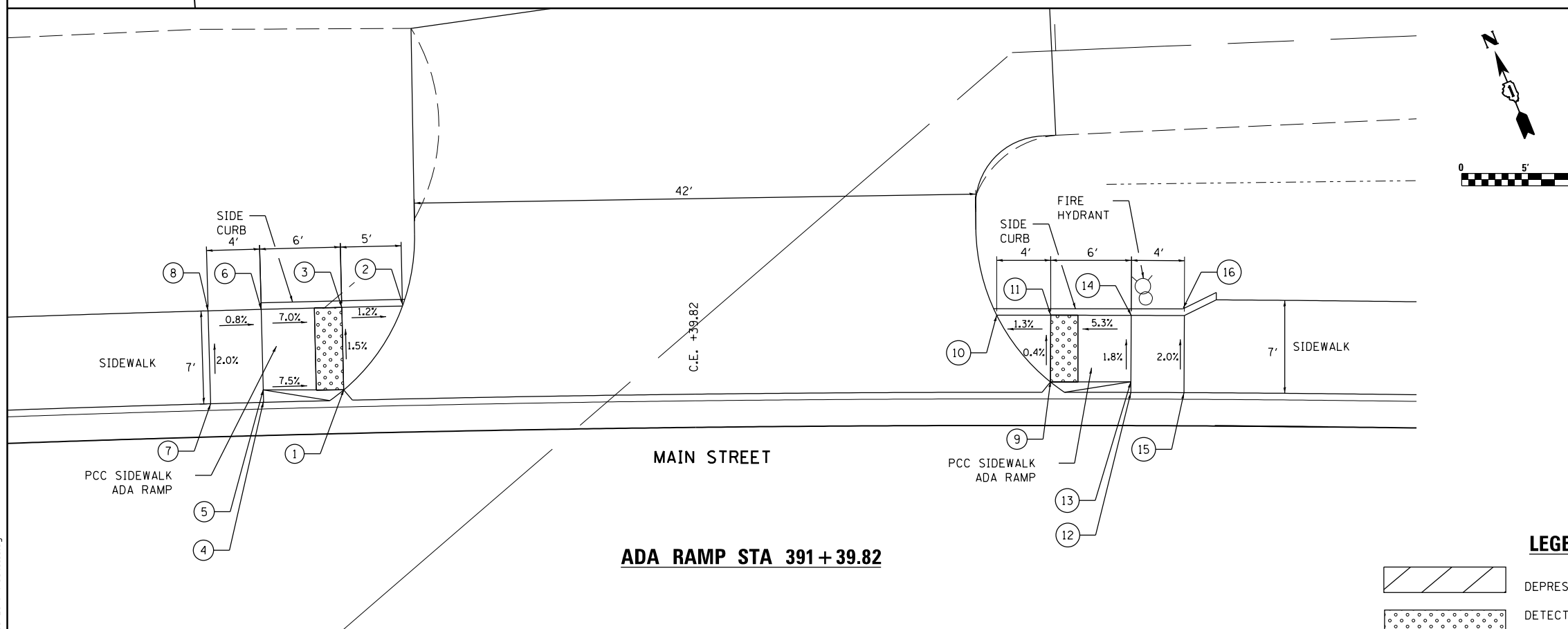
SCALE: 1"=5' SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	105
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PT	STATION	OFFSET	ELEV
1	388+39.18	37.19 LT	626.93
2	388+39.16	32.31 LT	626.95
3	388+39.16	30.19 LT	626.76
4	388+43.18	37.22 LT	626.72
5	388+43.19	32.29 LT	626.74
6	388+49.66	37.26 LT	626.69
7	388+49.69	32.26 LT	626.71
8	388+49.69	29.58 LT	626.79
9	388+55.86	37.47 LT	626.65
10	388+59.37	37.67 LT	626.72
11	389+03.03	39.50 LT	626.06
12	389+06.54	39.50 LT	627.00
13	389+14.44	31.83 LT	627.18
14	389+14.44	34.51 LT	627.12
15	389+14.42	39.51 LT	627.08
16	389+24.60	32.56 LT	627.57
17	389+24.58	34.57 LT	627.53
18	389+24.54	39.57 LT	627.43

ADA RAMP STA 388+80.54



PT	STATION	OFFSET	ELEV
1	391+13.94	37.57 LT	626.50
2	391+18.27	43.87 LT	626.35
3	391+13.95	43.76 LT	626.41
4	391+07.96	36.66 LT	626.97
5	391+07.96	37.59 LT	626.95
6	391+08.96	43.66 LT	626.83
7	391+04.02	36.52 LT	626.99
8	391+04.08	43.58 LT	626.85
9	391+66.20	38.61 LT	626.28
10	391+62.15	43.54 LT	626.20
11	391+66.13	43.62 LT	626.26
12	391+72.18	37.94 LT	626.69
13	391+72.16	38.74 LT	626.68
14	391+72.07	43.74 LT	626.58
15	391+76.11	38.04 LT	626.55
16	391+75.87	44.32 LT	626.18

ADA RAMP STA 391+39.82

LEGEND

- DEPRESSED CURB AND GUTTER
- DETECTABLE WARNING

NOTE:
ALL THE STATION AND OFFSET BASED ON IL ROUTE 83/MAIN ST ALIGNMENT.

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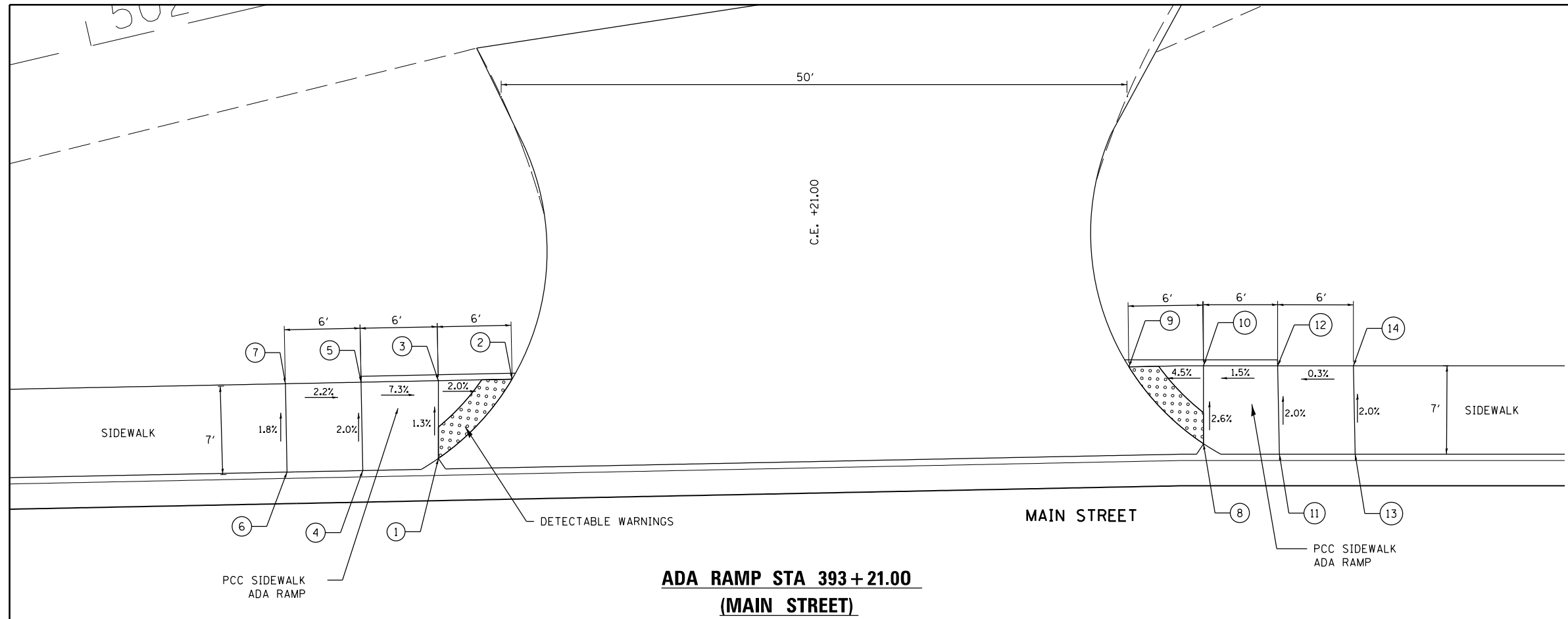
Rubinos & Mesa Engineers, Inc. 200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482	USER NAME = valvarez	DESIGNED - FA	REVISED -
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	PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
		DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
ADA RAMPS**

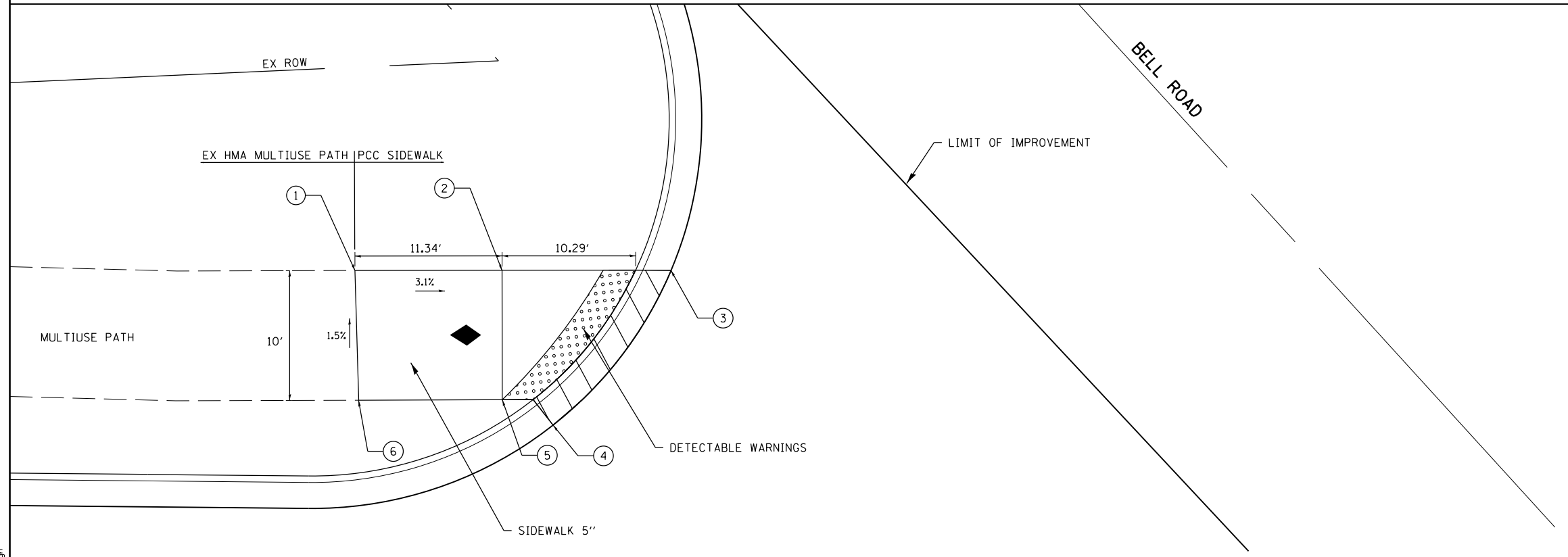
SCALE: 1"=5' SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	106
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PT	STATION	OFFSET	ELEV
1	392+91.26	41.16 LT	624.54
2	392+97.10	47.44 LT	624.33
3	392+91.26	47.33 LT	624.45
4	392+85.28	40.21 LT	625.03
5	393+85.14	47.20 LT	624.89
6	392+79.28	40.09 LT	625.15
7	392+79.14	47.08 LT	625.02
8	393+51.87	42.33 LT	623.98
9	393+45.96	48.42 LT	623.89
10	393+51.87	48.50 LT	624.16
11	393+57.88	41.50 LT	624.39
12	393+57.75	48.50 LT	624.25
13	393+61.88	41.50 LT	624.37
14	393+61.88	48.50 LT	624.23

**ADA RAMP STA 393+21.00
(MAIN STREET)**



PT	STATION	OFFSET	ELEV
1	108+47.34	54.31 LT	606.50
2	108+58.68	53.98 LT	606.15
3	108+71.69	53.59 LT	605.51
4	108+62.24	41.93 LT	606.25
5	108+58.39	44.01 LT	606.30
6	108+47.33	44.30 LT	606.65

IL ROUTE 83/171

**ADA RAMP STA 108+64.56
(IL ROUTE 83/171)**

LEGEND

DEPRESSED CURB AND GUTTER

DETECTABLE WARNING

NOTE:
ALL THE STATION AND OFFSET BASED ON IL ROUTE 83/MAIN ST ALIGNMENT.

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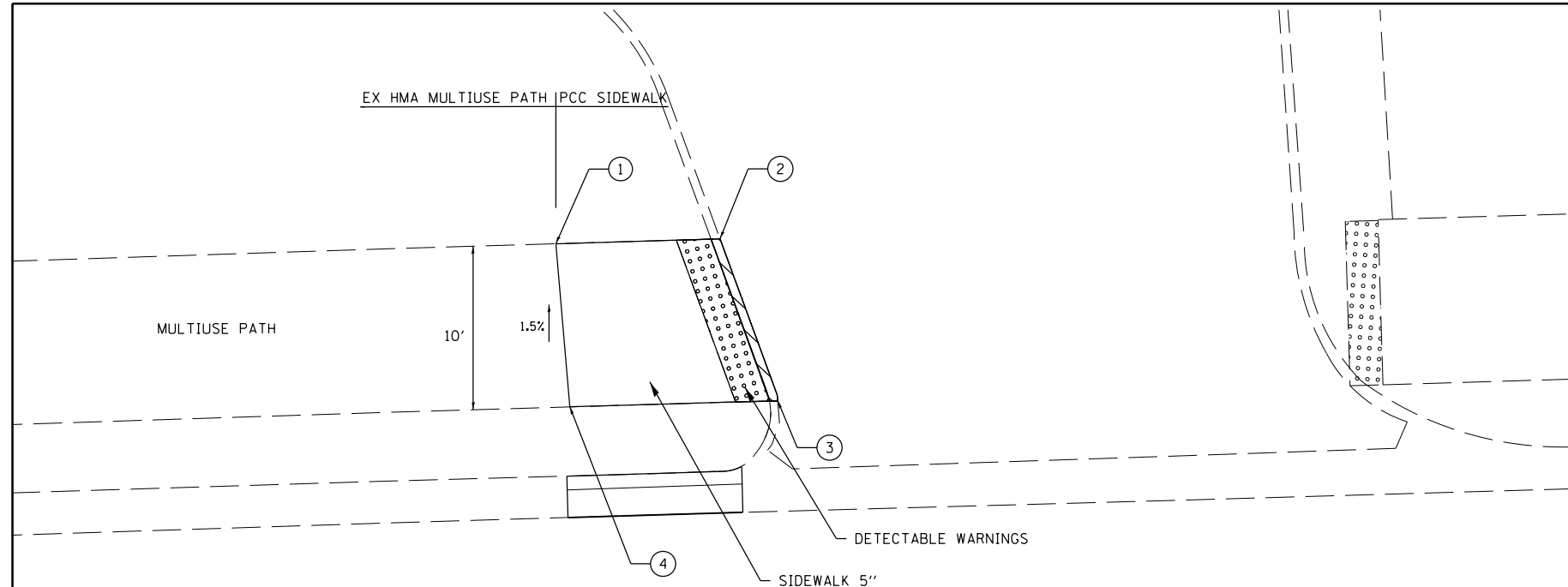
RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

USER NAME = valvarez	DESIGNED - FA	REVISED -
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PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

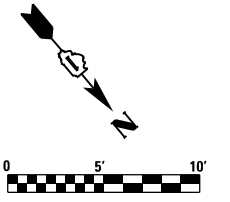
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) ADA RAMPS	
SCALE: 1"=5'	SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 107
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

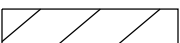
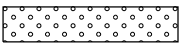


PT	STATION	OFFSET	ELEV
1	112+12.13	54.31 LT	
2	112+22.12	50.26 LT	596.54
3	112+25.33	40.30 LT	596.53
4	112+12.68	40.32 LT	



**ADA RAMP STA 112+25.33
(IL ROUTE 83/171)**

LEGEND

	DEPRESSED CURB AND GUTTER
	DETECTABLE WARNING

NOTE:
ALL THE STATION AND OFFSET BASED ON IL ROUTE 83/MAIN ST ALIGNMENT.

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RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

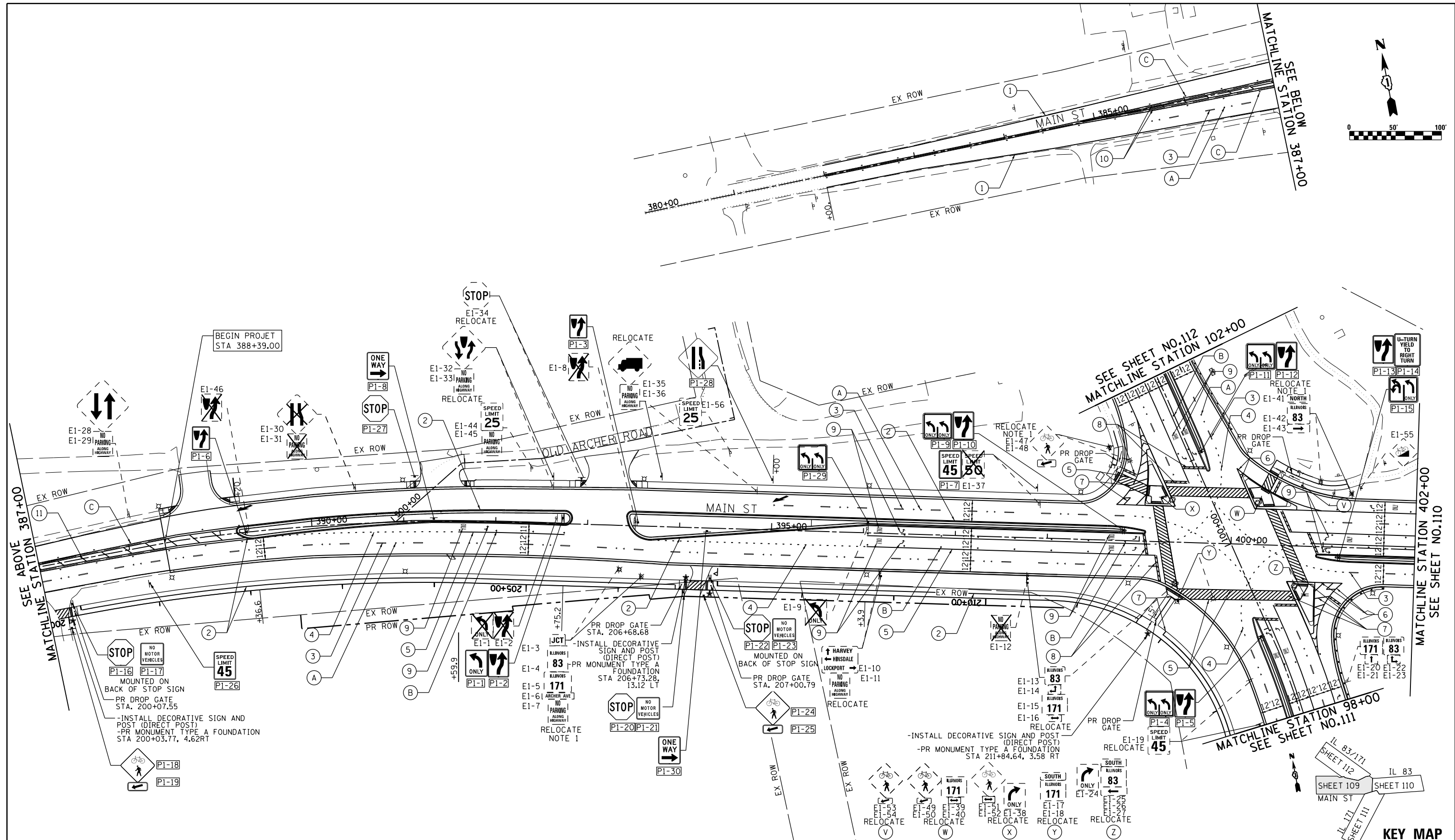
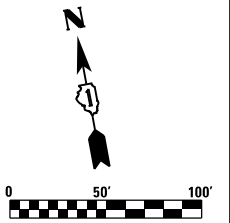
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PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
ADA RAMPS**

SCALE: 1"=5' SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	108
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (SOLID)
 - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (30' SKIP - 10' DASH)
 - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (2' SKIP - 6' DASH)
 - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (SOLID)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE (SOLID)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE (SOLID) AT 3' C-C
 - ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE (SOLID)
 - ⑨ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
 - ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 2-4" YELLOW AT 11" C-C
 - ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW AT 20' C-C

- (A) RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER, 2 EACH @ 80' CENTER
- (B) RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER @ 40' CENTER
- (C) RAISED PAVEMENT MARKER REFLECTOR, TWO-WAY AMBER MARKER @ 40' CENTER

- NOTES:**
1. THOSE SIGNS MOUNTED ON EXISTING LIGHT POLE AND TRAFFIC SIGNAL POLE TO BE RELOCATE TEMPORALLY ON POST AND REERECT AS SHOWN ON THE PLAN.
 2. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S DETAIL TC-13
 3. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKERS ACCORDING TO IDOT'S DETAIL TC-11

RME Rubinos & Messia Engineers, Inc. 200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2462	USER NAME = valvarez	DESIGNED - FA	REVISED -
	PLOT SCALE = 100.0000' / 1" =	DRAWN - VEA	REVISED -
	PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
		DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

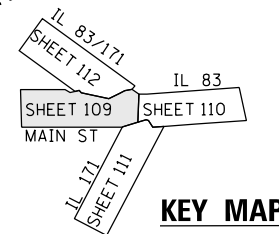
IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) PAVEMENT MARKING AND SIGNAGE PLAN

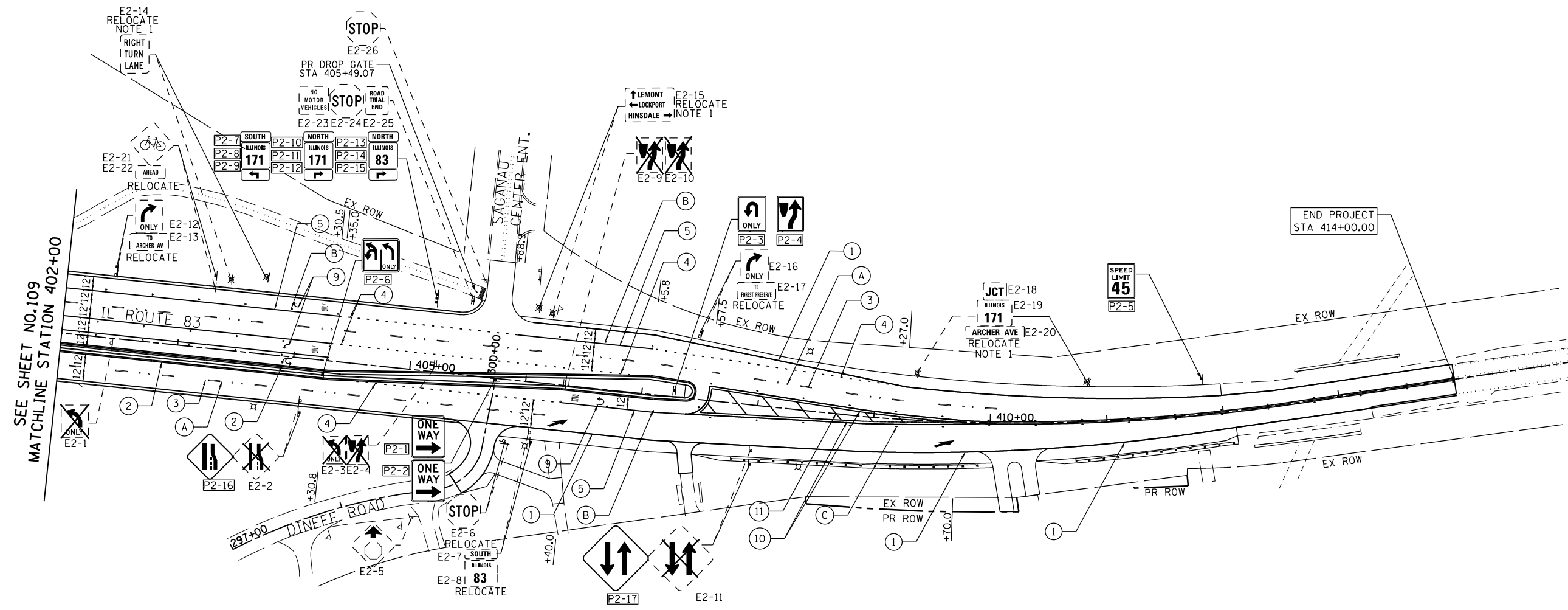
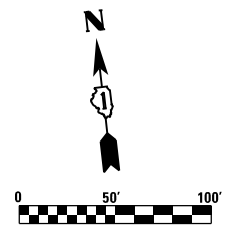
SCALE: 1"=50'	SHEET NO. 1 OF 4 SHEETS	STA. 388+00.00 TO STA. 402+00.00
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F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 109
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FILE NAME = D:\60Y25-sh-t-pmk.ltdgn

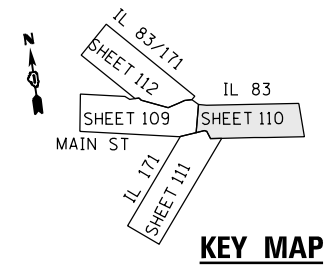
KEY MAP





SEE SHEET NO. 109
MATCHLINE STATION 402+00

END PROJECT
STA 414+00.00



KEY MAP

LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (30' SKIP - 10' DASH)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (2' SKIP - 6' DASH)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (SOLID)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE (SOLID)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE (SOLID) AT 3' C-C
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE (SOLID)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 2-4" YELLOW AT 11" C-C
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW AT 20' C-C
- Ⓐ RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER, 2 EACH @ 80' CENTER
- Ⓑ RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER @ 40' CENTER
- Ⓒ RAISED PAVEMENT MARKER REFLECTOR, TWO-WAY AMBER MARKER @ 40' CENTER

NOTES:

1. THOSE SIGNS MOUNTED ON EXISTING LIGHT POLE AND TRAFFIC SIGNAL POLE TO BE RELOCATE TEMPORALLY ON POST AND REERECT AS SHOWN ON THE PLAN.
2. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S DETAIL TC-13
3. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKERS ACCORDING TO IDOT'S DETAIL TC-11



USER NAME = VALVAREZ	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

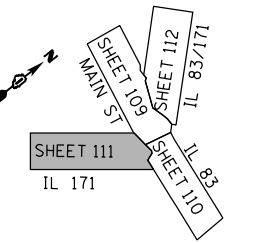
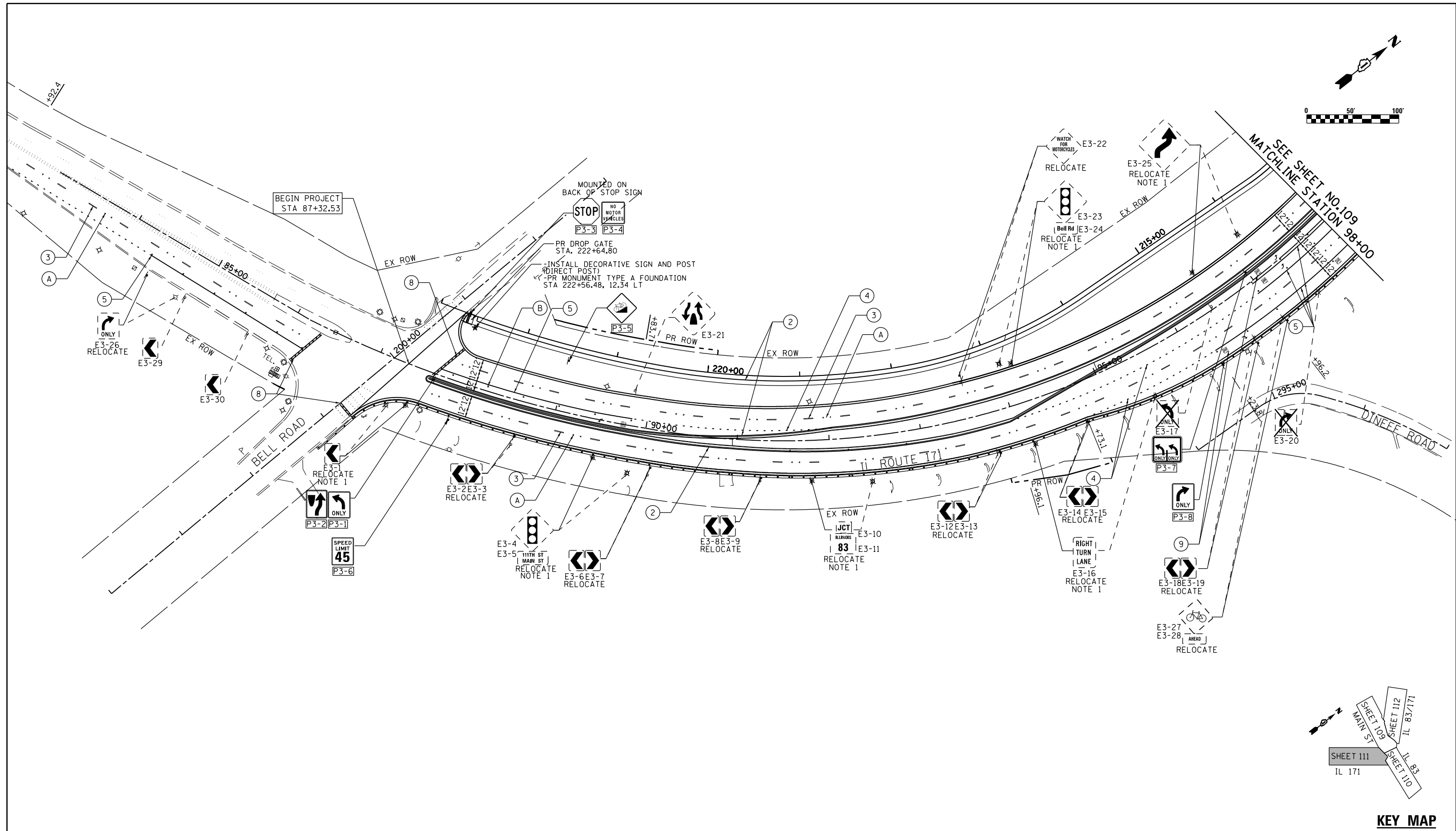
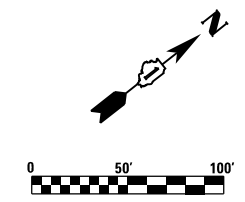
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
PAVEMENT MARKING AND SIGNAGE PLAN**

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 402+00.00 TO STA. 415+00.00

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 110
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FILE NAME = D:\60Y25-sh-t-pmk2.dgn



LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (30' SKIP - 10' DASH)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (2' SKIP - 6' DASH)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (SOLID)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE (SOLID)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE (SOLID) AT 3' C-C
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE (SOLID)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 2-4" YELLOW AT 11" C-C
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW AT 20' C-C
- (A) RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER, 2 EACH @ 80' CENTER
- (B) RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER @ 40' CENTER
- (C) RAISED PAVEMENT MARKER REFLECTOR, TWO-WAY AMBER MARKER @ 40' CENTER

NOTES:

1. THOSE SIGNS MOUNTED ON EXISTING LIGHT POLE AND TRAFFIC SIGNAL POLE TO BE RELOCATE TEMPORALLY ON POST AND REERECT AS SHOWN ON THE PLAN.
2. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S DETAIL TC-13
3. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKERS ACCORDING TO IDOT'S DETAIL TC-11

RME Rubinos & Mesa Engineers, Inc.
 200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

USER NAME = valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

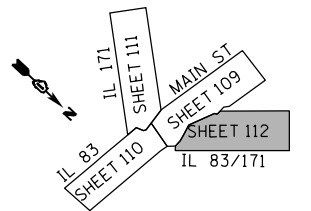
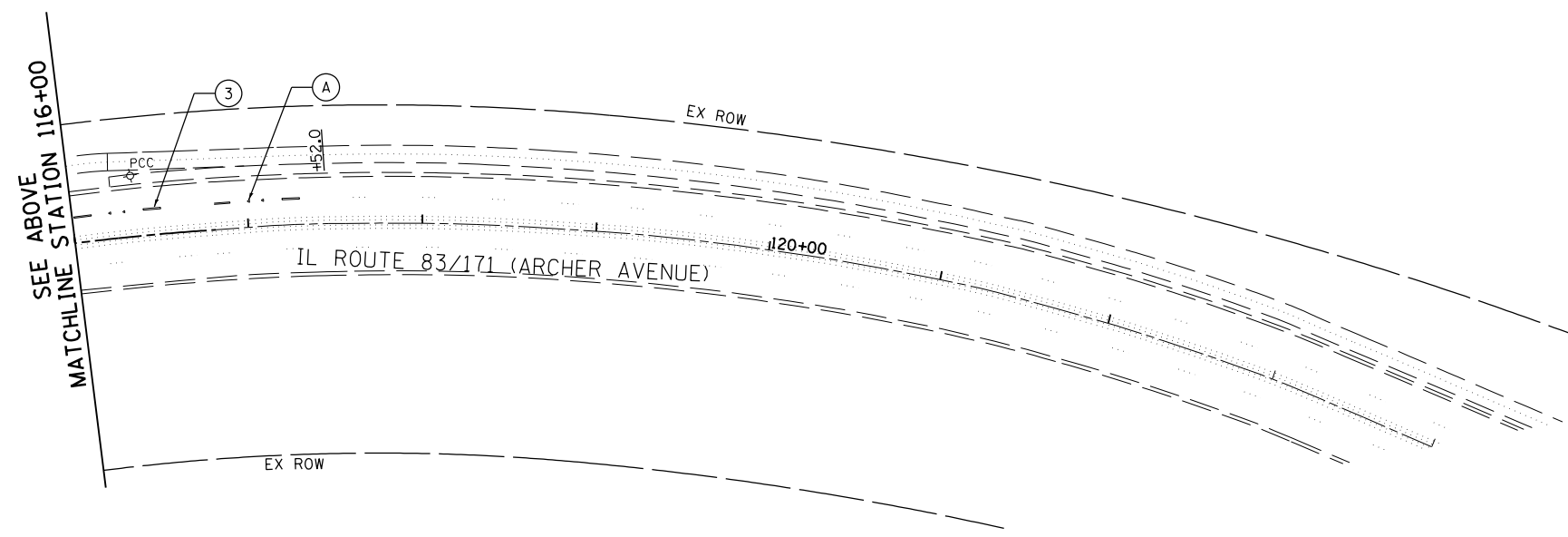
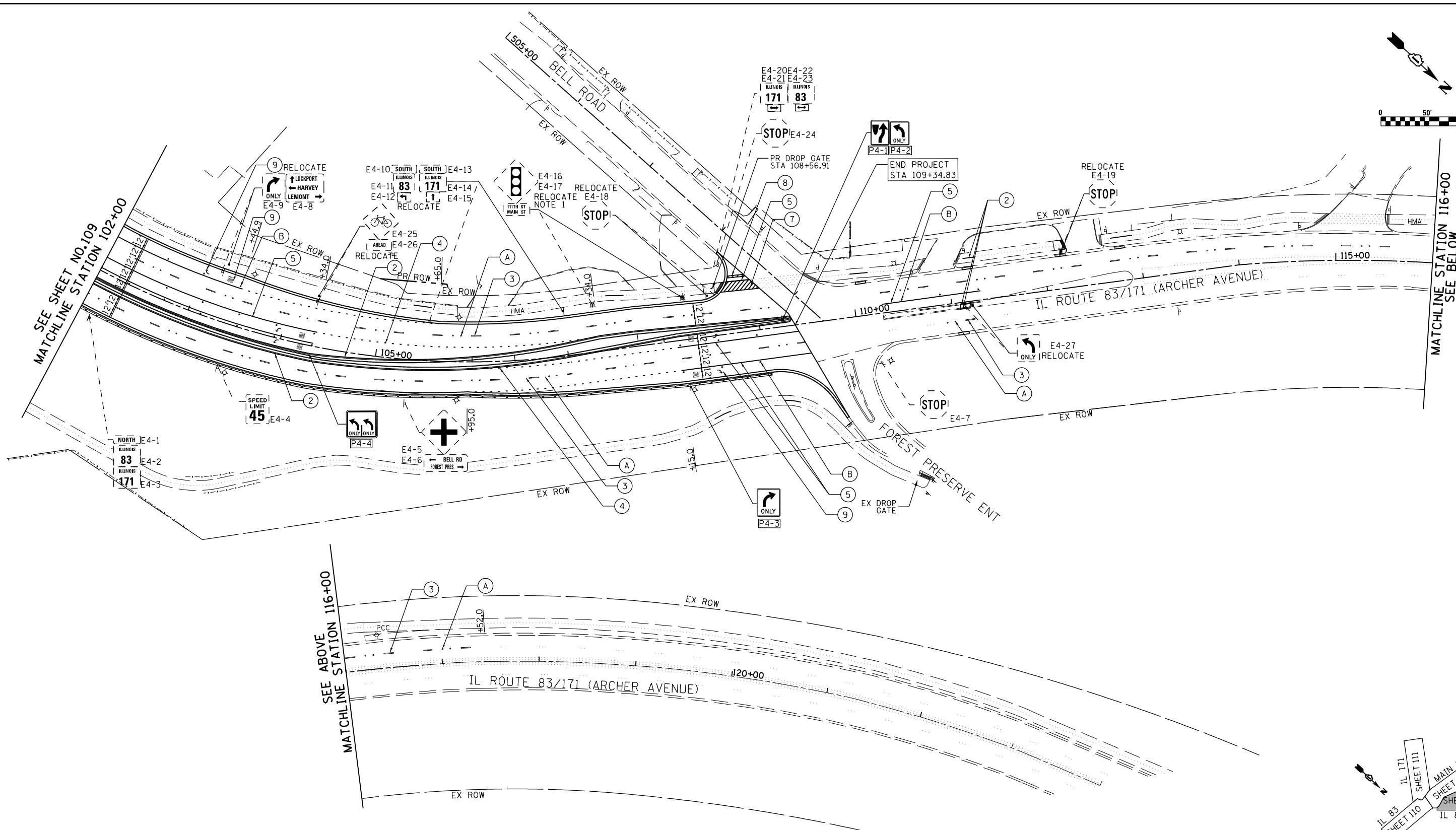
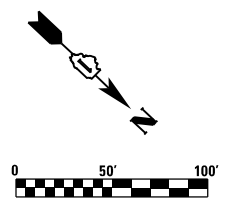
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
PAVEMENT MARKING AND SIGNAGE PLAN**

SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 84+00.00 TO STA. 98+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	111
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FILE NAME = D:\60Y25-sh-t-pmk-3.dgn



KEY MAP

LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (SOLID)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW (SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE (30' SKIP - 10' DASH)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (2' SKIP - 6' DASH)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE (SOLID)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE (SOLID)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE (SOLID) AT 3' C-C
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE (SOLID)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 2-4" YELLOW AT 11" C-C
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW AT 20' C-C
- (A) RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER, 2 EACH @ 80' CENTER
- (B) RAISED PAVEMENT MARKER REFLECTOR, ONE-WAY CRYSTAL MARKER @ 40' CENTER
- (C) RAISED PAVEMENT MARKER REFLECTOR, TWO-WAY AMBER MARKER @ 40' CENTER

NOTES:

1. THOSE SIGNS MOUNTED ON EXISTING LIGHT POLE AND TRAFFIC SIGNAL POLE TO BE RELOCATE TEMPORALLY ON POST AND REERECT AS SHOWN ON THE PLAN.
2. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S DETAIL TC-13
3. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKERS ACCORDING TO IDOT'S DETAIL TC-11



USER NAME = valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

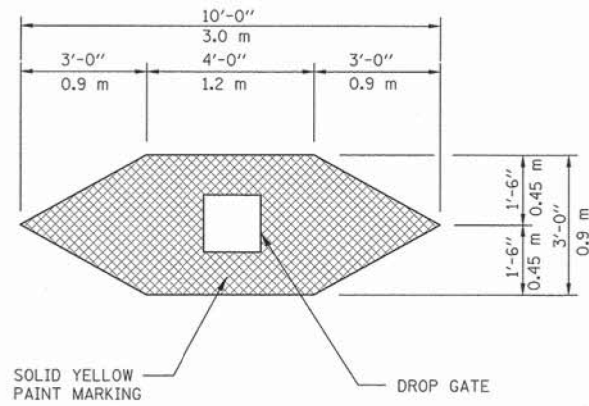
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
PAVEMENT MARKING AND SIGNAGE PLAN**

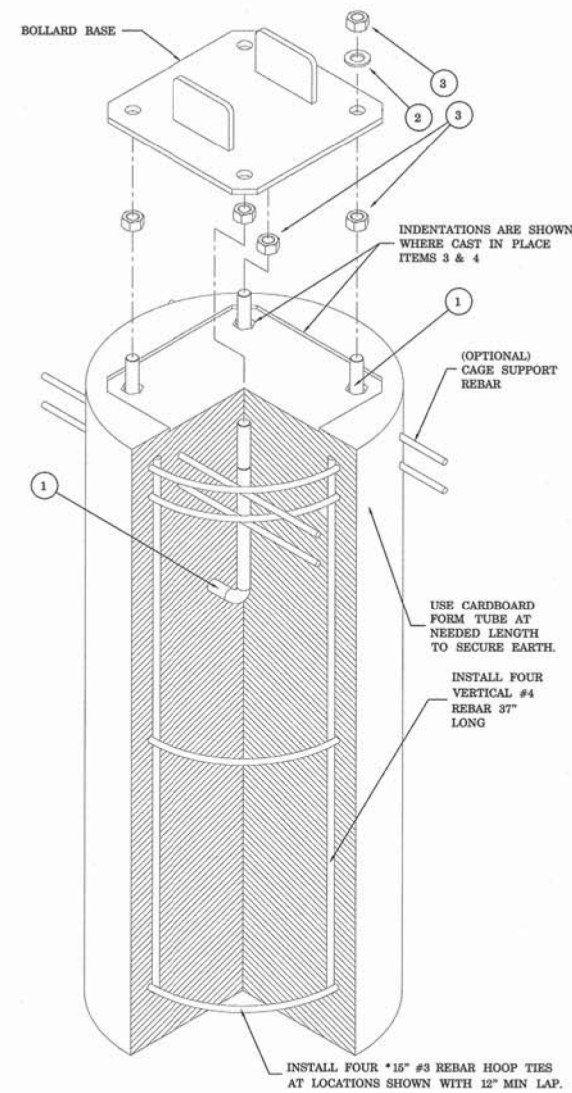
SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 102+00.00 TO STA. 115+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	112
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

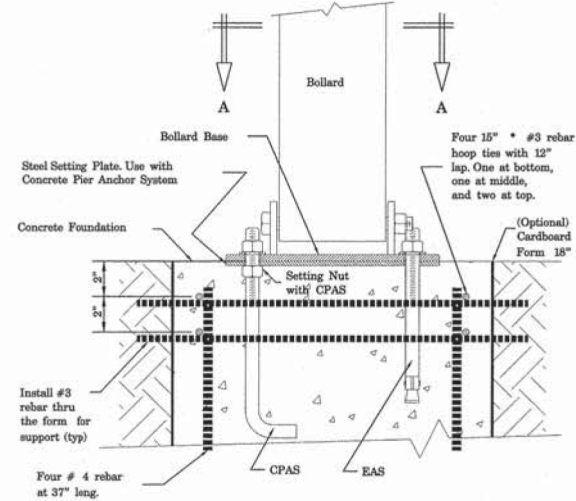
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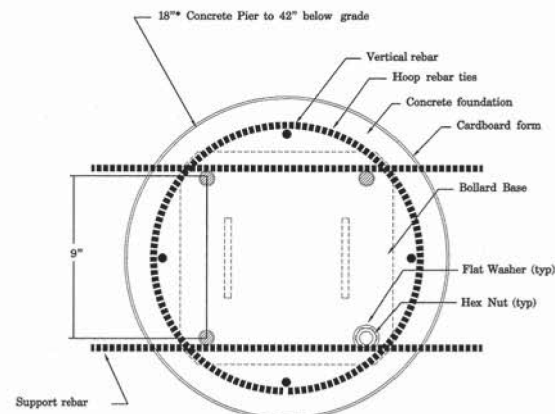
DROP GATE MARKING DETAIL
N.T.S.



CONCRETE PIER ANCHOR SYSTEM (CPAS)



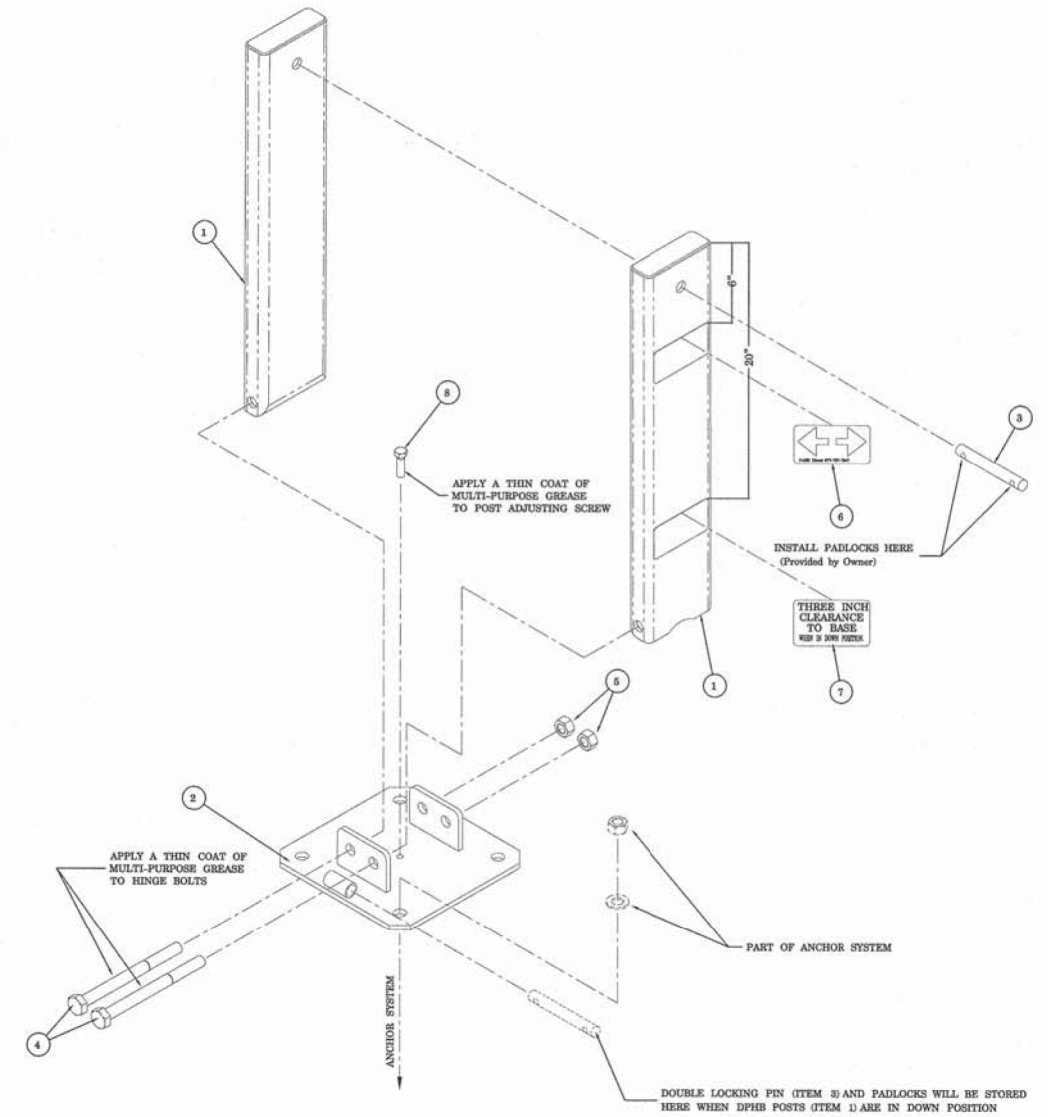
FRONT ELEVATION SECTION



PLAN SECTION "A-A"

DROP GATE, INSTALLATION DETAIL

N.T.S.



DROP GATE DETAIL

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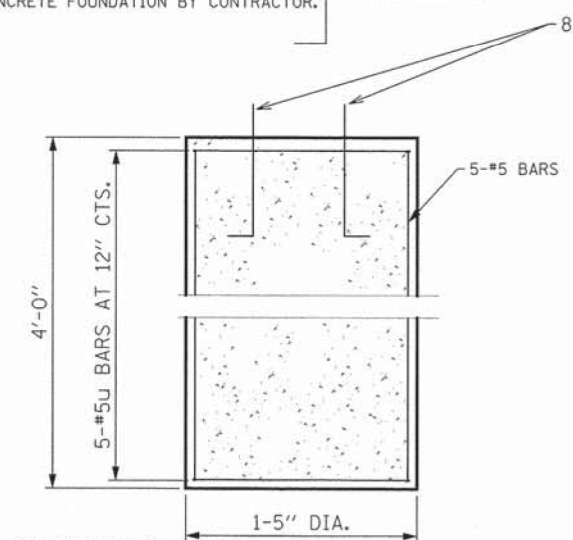
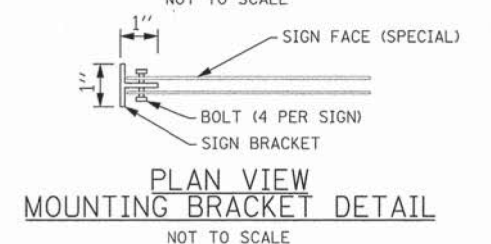
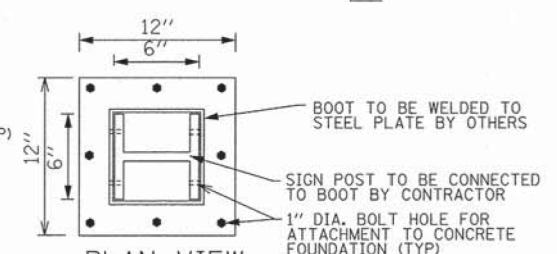
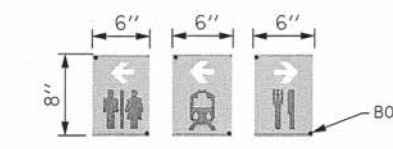
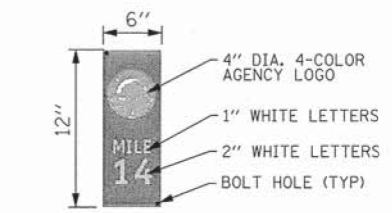
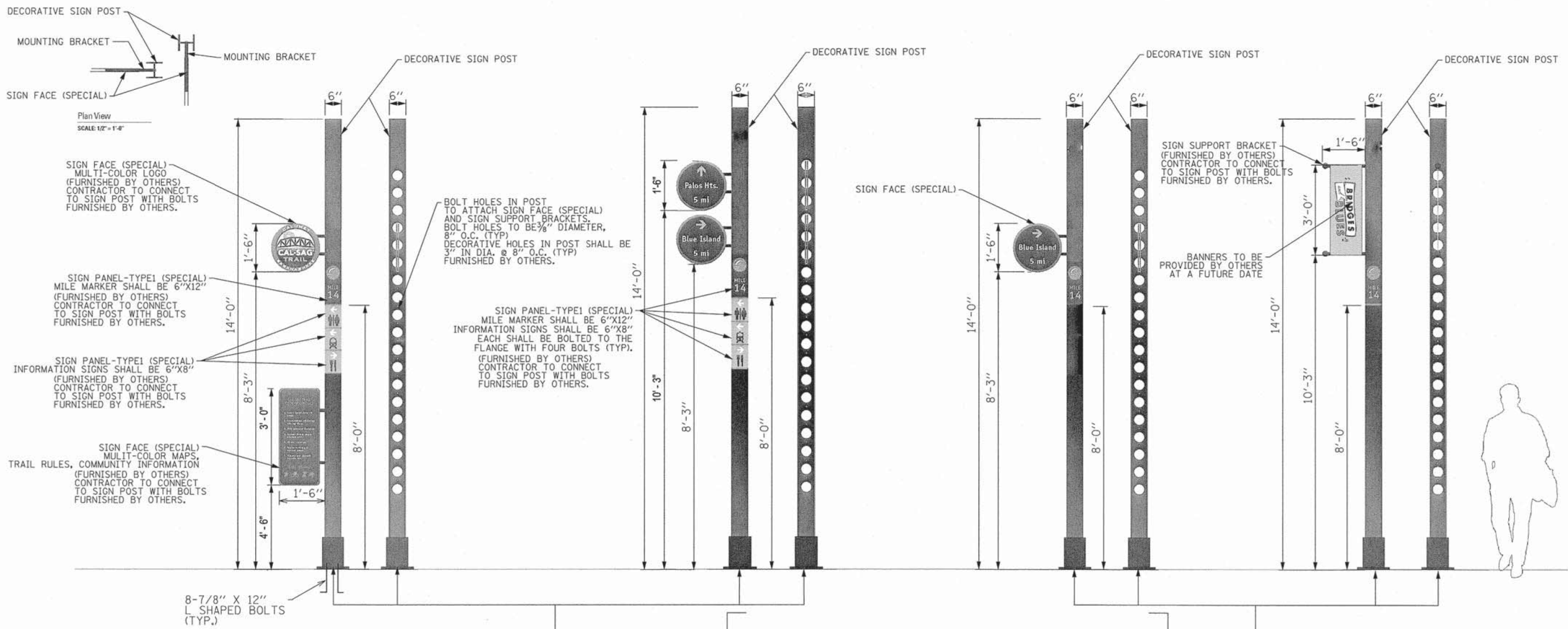
RME Rubinos & Mesia Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2462

USER NAME = VALVAREZ	DESIGNED - FA	REVISED -
PLOT SCALE = 100.0000' / 1"	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) DROP GATE DETAIL	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 113
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
v2(E)	6	#5	3'-8"	—
u2(E)	8	#5	5'-2"	○
CONCRETE STRUCTURE			Cu. Yd.	0.2
STRUCTURE EXCAVATION			Cu. Yd.	1.4
REINFORCEMENT BARS, EPOXY COATED			POUND	70



NOTE:
DECORATIVE SIGN POSTS AND ALL ASSOCIATED AND APPLICABLE SIGN PANEL-LOGOS, SIGN PANELS, SIGN SUPPORT BRACKETS, MOUNTING BRACKETS, AND BASE PLATES ARE FURNISHED BY OTHERS FOR THIS CONTRACT.

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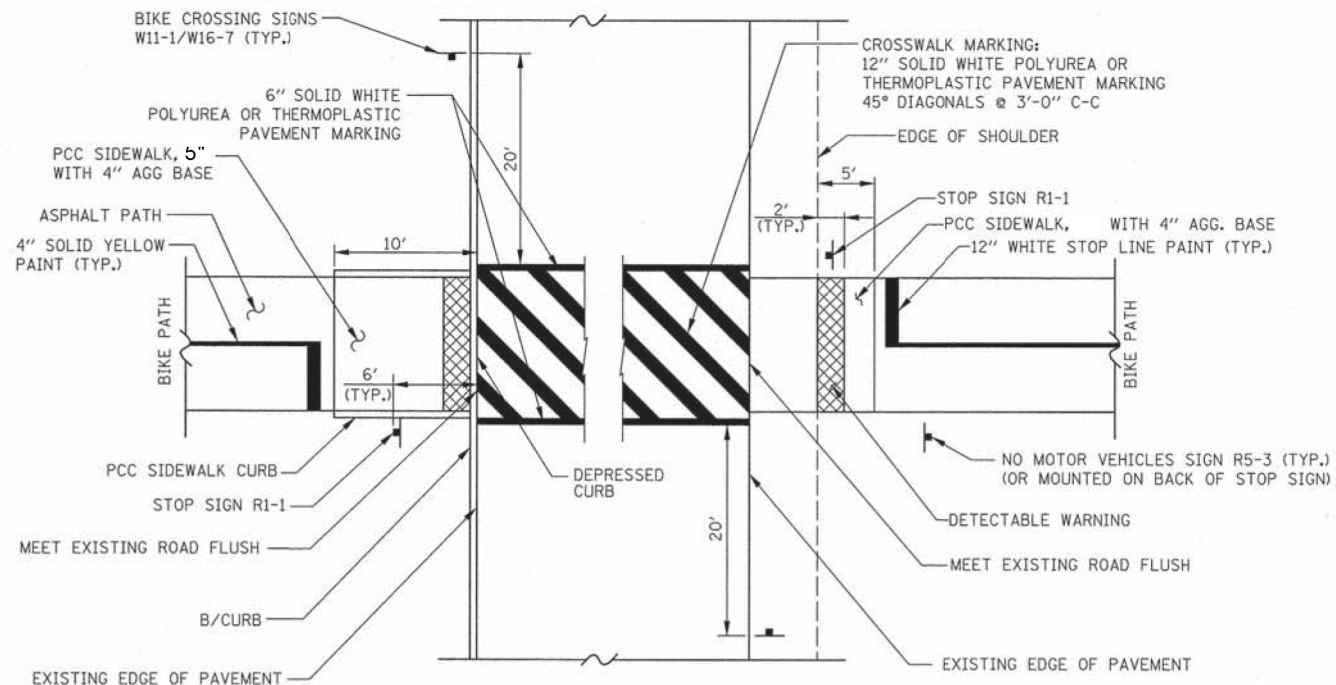
RME Rubinos & Messia Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2462

USER NAME = valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

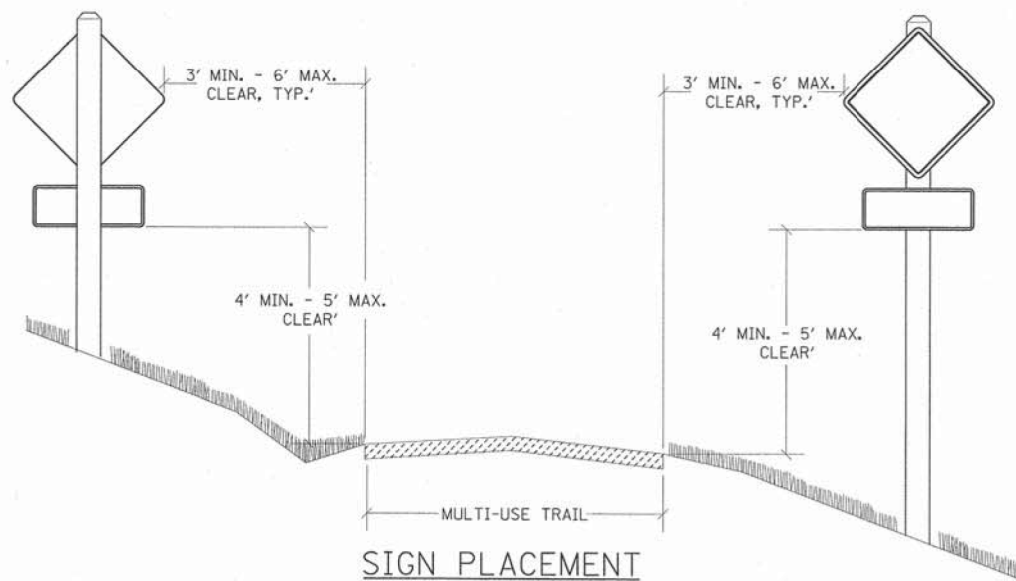
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) DECORATIVE AND POST ASSEMBLY DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 114
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



STREET INTERSECTION SIGN AND PAVEMENT MARKING DETAIL
N.T.S.



SIGN PLACEMENT
N.T.S.

FILE NAME = 0160Y25-shr-detail14.dgn

RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

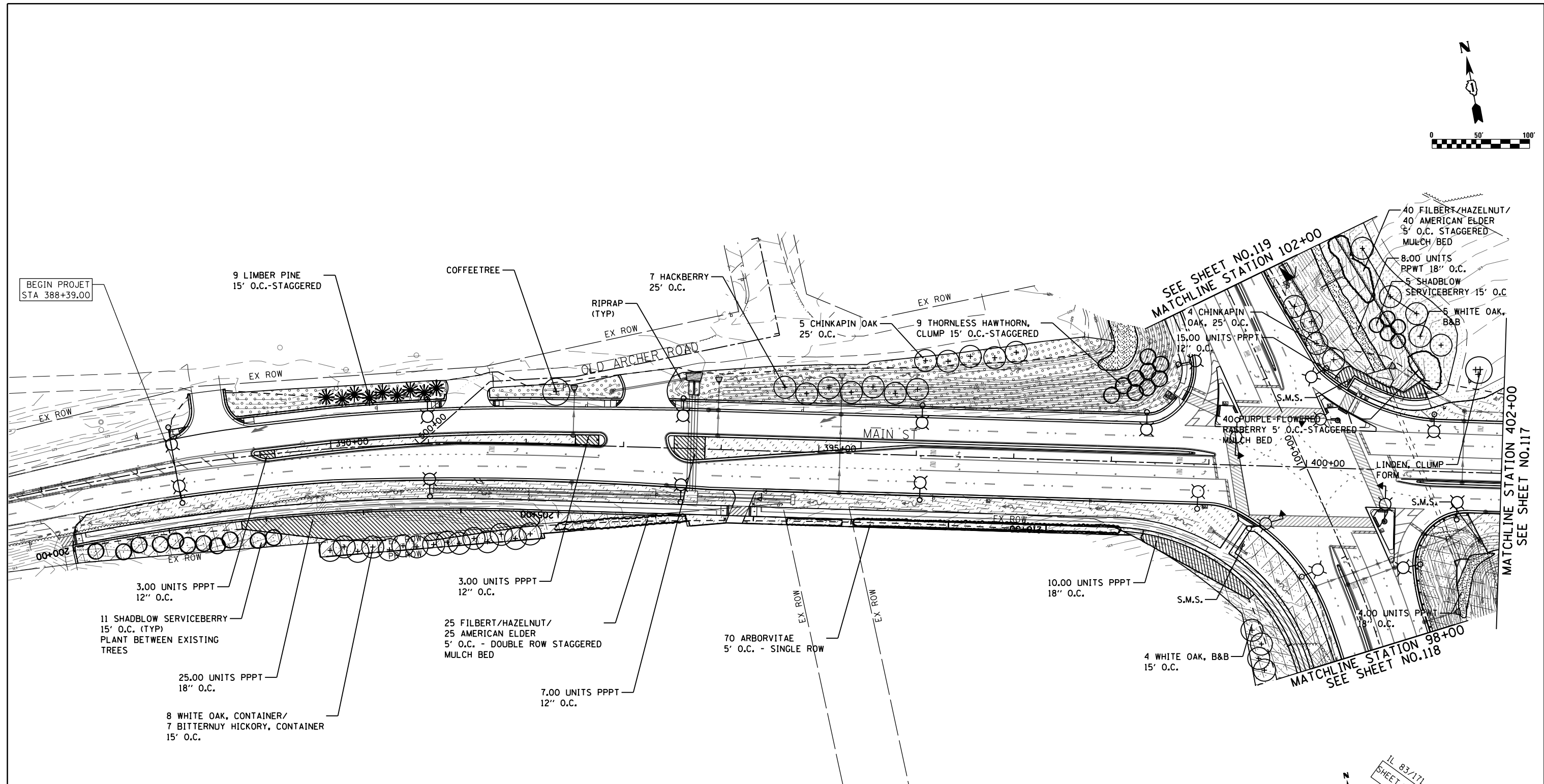
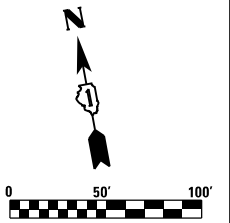
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	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
SIGN PLACEMENT & PAVEMENT MARKING DETAIL

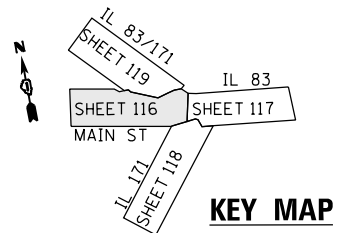
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	115
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

- SEEDING, CLASS 2A*
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
- SEEDING, CLASS 4A (MODIFIED)*
SEEDING, CLASS 5 (MODIFIED)
WEED CONTROL, NATIVE GRASS RESTORATION
(POST -TREATMENT)
- COARSE SAND PLACEMENT, 4" *
- SEEDING CLASS 4B (MODIFIED)*
PERENNIAL PLANTS, WETLAND TYPE (PPWT)
PLUGS INTO EXISTING E.C. BLANKET
(SPACING AS SHOWN)
- SODDING SALT TOLERANT*
NITROGEN AND POTASSIUM FERTILIZER
NUTRIENT
- INTERSEEDING, CLASS 4A (MODIFIED)
INTERSEEDING, CLASS 5 (MODIFIED)
WEED CONTROL AQUATIC (PRE -TREATMENT)
- COARSE SAND PLACEMENT, 2" *
- SODDING, SALT -TOLERANT
PERENNIAL PLANTS, WOODLAND TYPE, QUART POT
(SPACING AS SHOWN)
- INTERSEEDING CLASS 4 (SPECIAL)
WEED CONTROL AQUATIC (PRE -TREATMENT)
- SEEDING CLASS 4B (MODIFIED)*
- PERENNIAL PLANTS, PRAIRIE TYPE (PPPT)*
PLUGS INTO EXISTING E.C. BLANKET OR TURF
(SPACING AS SHOWN)
- SELECTIVE MOWING STAKES W/ SIGN (S.M.S.)



NOTES:
TOPSOIL DEPTH IN LANDSCAPE MEDIANS SHALL BE 12" THICK
*TOPSOIL FURNISH AND PLACE, 6"

FILE NAME = D:\60225-sh-t-1\ndscpl.dgn

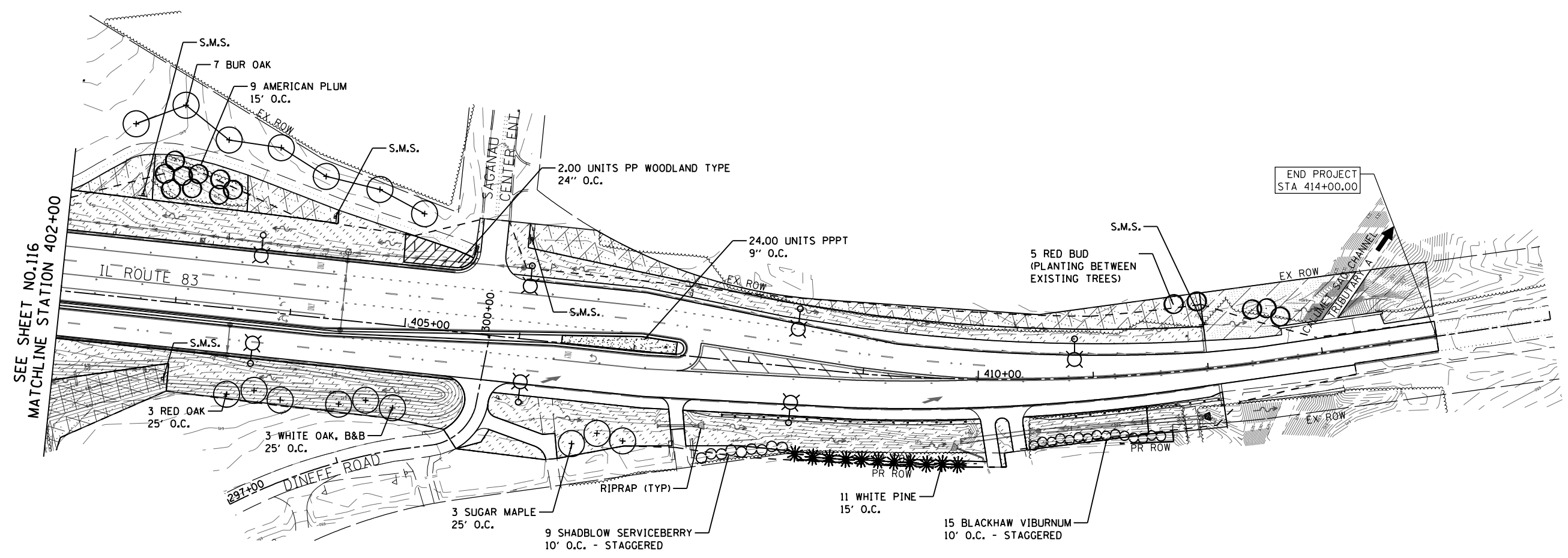
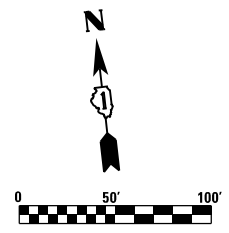


USER NAME = valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) LANDSCAPE PLAN	
SCALE: 1"=50'	SHEET NO. 1 OF 5 SHEETS
STA. 388+00.00	TO STA. 402+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	116
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

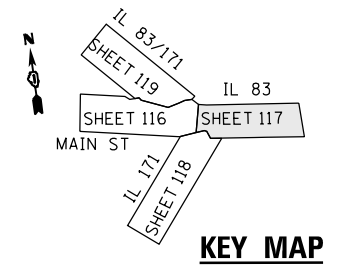
- SEEDING, CLASS 2A*
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
- SODDING SALT TOLERANT*
NITROGEN AND POTASSIUM FERTILIZER
NUTRIENT
- INTERSEEDING CLASS 4 (SPECIAL)
WEED CONTROL AQUATIC (PRE -TREATMENT)

- SEEDING, CLASS 4A (MODIFIED)*
SEEDING, CLASS 5 (MODIFIED)
WEED CONTROL, NATIVE GRASS RESTORATION
(POST -TREATMENT)
- INTERSEEDING, CLASS 4A (MODIFIED)
INTERSEEDING, CLASS 5 (MODIFIED)
WEED CONTROL AQUATIC (PRE -TREATMENT)
- SEEDING CLASS 4B (MODIFIED)*

- COARSE SAND PLACEMENT, 4" *
- MULCH PLACEMENT
WEED CONTROL, PRE- EMERGENT GRANULAR HERBICIDE
PERENNIAL PLANTS, PRAIRIE TYPE (PPPT)
- COARSE SAND PLACEMENT, 2" *
- SODDING, SALT -TOLERANT
PERENNIAL PLANTS, WOODLAND TYPE, QUART POT
(SPACING AS SHOWN)
- PERENNIAL PLANTS, PRAIRIE TYPE (PPPT)*
PLUGS INTO EXISTING E.C. BLANKET OR TURF
(SPACING AS SHOWN)

- SEEDING CLASS 4B (MODIFIED)*
PERENNIAL PLANTS, WETLAND TYPE (PPWT)
PLUGS INTO EXISTING E.C. BLANKET
(SPACING AS SHOWN)
- SELECTIVE MOWING STAKES W/ SIGN (S.M.S.)

NOTES:
TOPSOIL DEPTH IN LANDSCAPE MEDIANS SHALL BE 12" THICK
*TOPSOIL FURNISH AND PLACE, 6"



FILE NAME = D:\60225-shr-1\ndep2.dgn

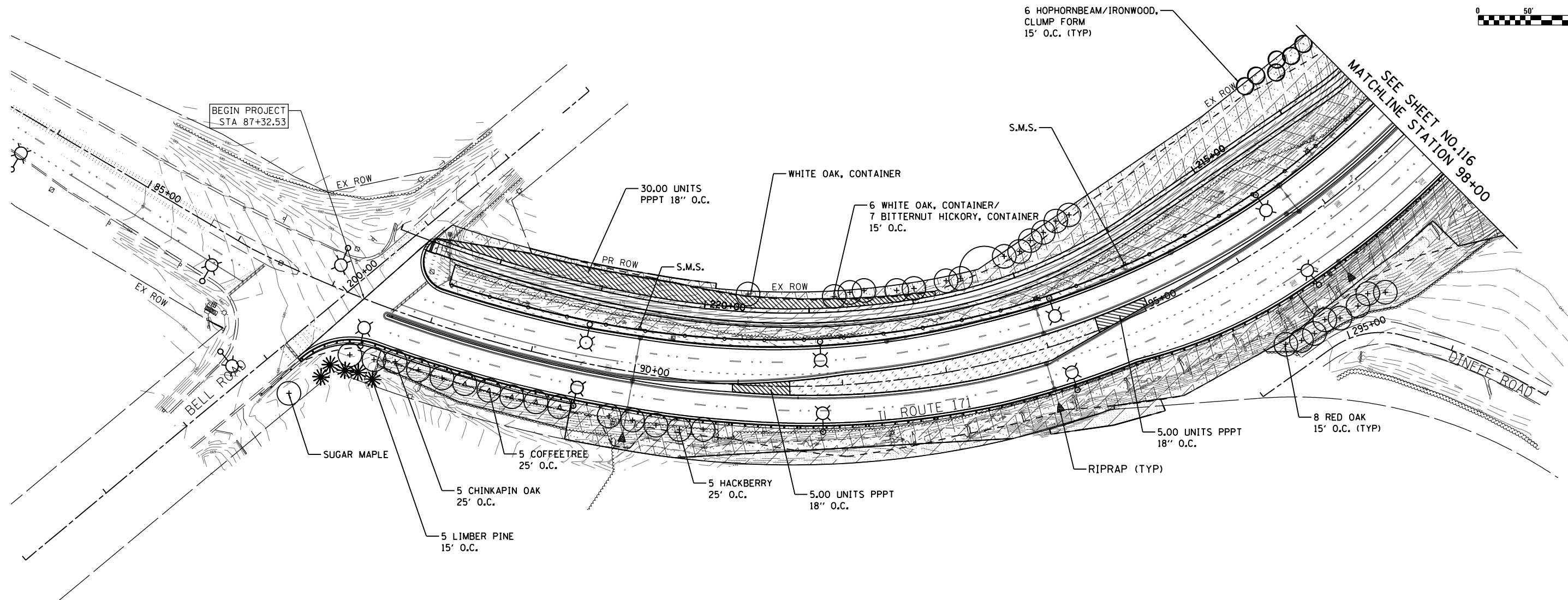
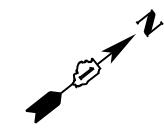


USER NAME = Valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) LANDSCAPE PLAN	
SCALE: 1"=50'	SHEET NO. 2 OF 5 SHEETS
STA. 402+00.00	TO STA. 415+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	117
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SEE SHEET NO. 116
MATCHLINE STATION 98+00

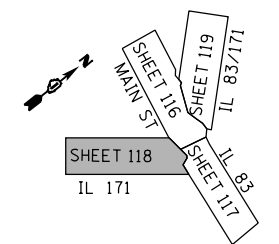
LANDSCAPING LEGEND

- SEEDING, CLASS 2A*
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET
- SODDING SALT TOLERANT*
NITROGEN AND POTASSIUM FERTILIZER
NUTRIENT
- INTERSEEDING CLASS 4 (SPECIAL)
WEED CONTROL AQUATIC (PRE -TREATMENT)

- SEEDING, CLASS 4A (MODIFIED)*
SEEDING, CLASS 5 (MODIFIED)
WEED CONTROL, NATIVE GRASS RESTORATION
(POST -TREATMENT)
- INTERSEEDING, CLASS 4A (MODIFIED)
INTERSEEDING, CLASS 5 (MODIFIED)
WEED CONTROL AQUATIC (PRE -TREATMENT)
- SEEDING CLASS 4B (MODIFIED)*

- COARSE SAND PLACEMENT, 4" *
MULCH PLACEMENT
WEED CONTROL, PRE- EMERGENT GRANULAR HERBICIDE
PERENNIAL PLANTS, PRAIRIE TYPE (PPPT)
- COARSE SAND PLACEMENT, 2" *
SODDING, SALT -TOLERANT
PERENNIAL PLANTS, WOODLAND TYPE, QUART POT
(SPACING AS SHOWN)
- PERENNIAL PLANTS, PRAIRIE TYPE (PPPT)*
PLUGS INTO EXISTING E.C. BLANKET OR TURF
(SPACING AS SHOWN)

- SEEDING CLASS 4B (MODIFIED)*
PERENNIAL PLANTS, WETLAND TYPE (PPWT)
PLUGS INTO EXISTING E.C. BLANKET
(SPACING AS SHOWN)
- SELECTIVE MOWING STAKES W/ SIGN (S.M.S.)



NOTES:
TOPSOIL DEPTH IN LANDSCAPE MEDIANS SHALL BE 12" THICK
*TOPSOIL FURNISH AND PLACE, 6"

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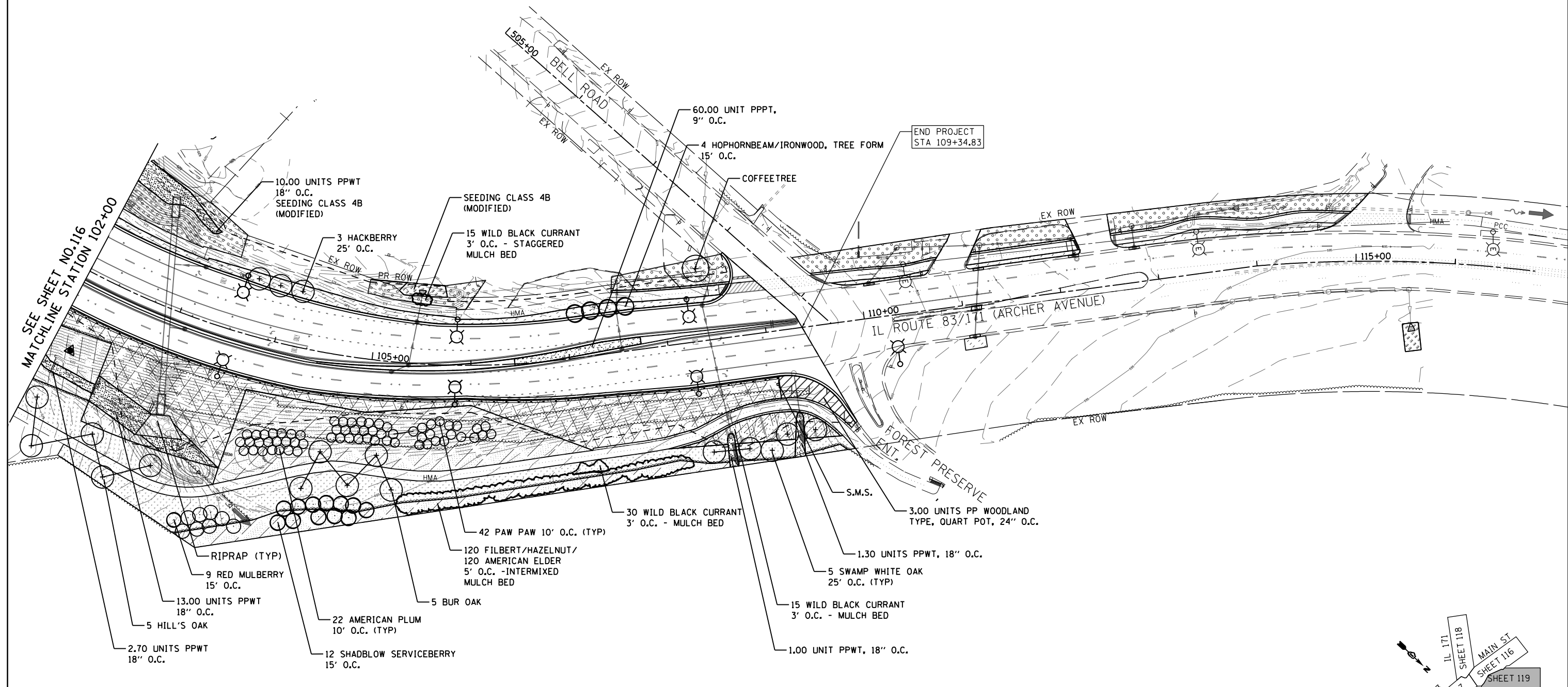
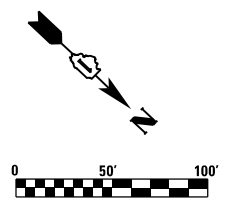


USER NAME = valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) LANDSCAPE PLAN	
SCALE: 1"=50'	SHEET NO. 3 OF 5 SHEETS
STA. 84+00.00	TO STA. 98+00.00

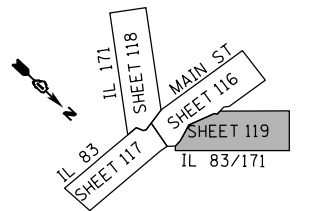
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	118
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

- | | | | |
|--|---|--|---|
| SEEDING, CLASS 2A*
NITROGEN, AND POTASSIUM FERTILIZER NUTRIENT
EROSION CONTROL BLANKET | SEEDING, CLASS 4A (MODIFIED)*
SEEDING, CLASS 5 (MODIFIED)
WEED CONTROL, NATIVE GRASS RESTORATION
(POST -TREATMENT) | COARSE SAND PLACEMENT, 4" * | SEEDING CLASS 4B (MODIFIED)*
PERENNIAL PLANTS, WETLAND TYPE (PPWT)
PLUGS INTO EXISTING E.C. BLANKET
(SPACING AS SHOWN) |
| SODDING SALT TOLERANT*
NITROGEN AND POTASSIUM FERTILIZER
NUTRIENT | INTERSEEDING, CLASS 4A (MODIFIED)
INTERSEEDING, CLASS 5 (MODIFIED)
WEED CONTROL AQUATIC (PRE -TREATMENT) | COARSE SAND PLACEMENT, 2" * | SELECTIVE MOWING STAKES W/ SIGN (S.M.S.) |
| INTERSEEDING CLASS 4 (SPECIAL)
WEED CONTROL AQUATIC (PRE -TREATMENT) | SEEDING CLASS 4B (MODIFIED)* | SODDING, SALT -TOLERANT
PERENNIAL PLANTS, WOODLAND TYPE, QUART POT
(SPACING AS SHOWN) | |
| | | PERENNIAL PLANTS, PRAIRIE TYPE (PPPT)*
PLUGS INTO EXISTING E.C. BLANKET OR TURF
(SPACING AS SHOWN) | |

NOTES:
TOPSOIL DEPTH IN LANDSCAPE MEDIANS SHALL BE 12" THICK
*TOPSOIL FURNISH AND PLACE, 6"



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USER NAME = valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
LANDSCAPE PLAN**

SCALE: 1"=50' SHEET NO. 4 OF 5 SHEETS STA. 102+00.00 TO STA. 115+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	119
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

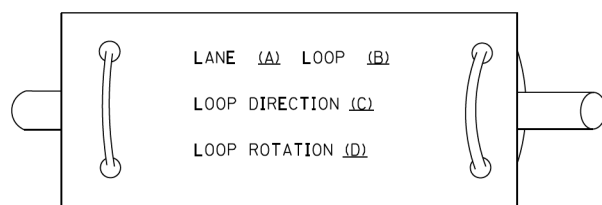
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		 	SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 	 	DETECTOR LOOP, TYPE I	 	 			
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP	 	 			
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR	 	 			
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	 	 			
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR	 	 			
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHT NO. 1

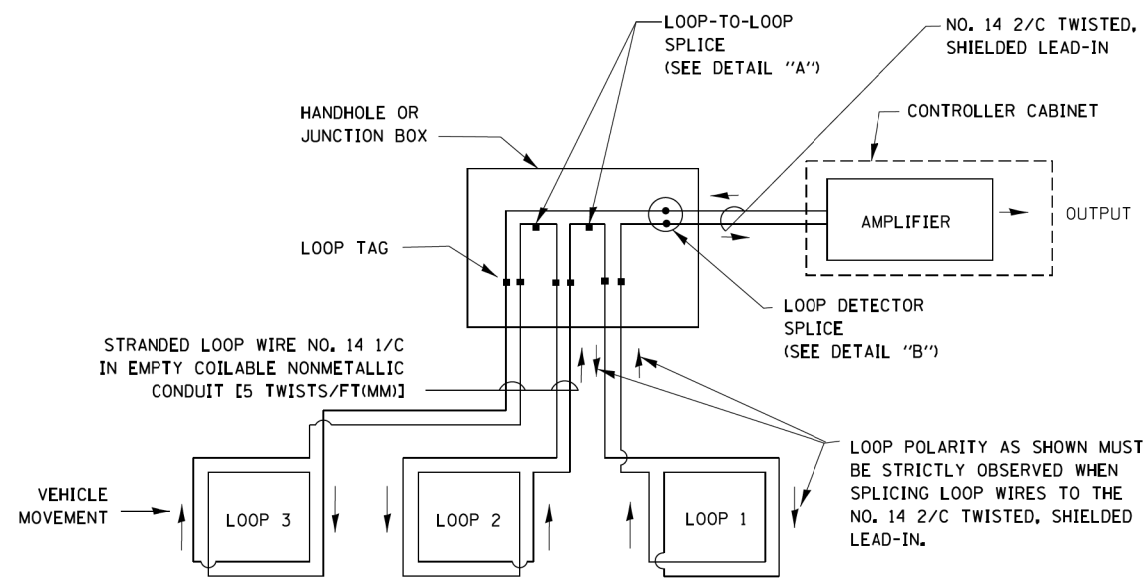
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

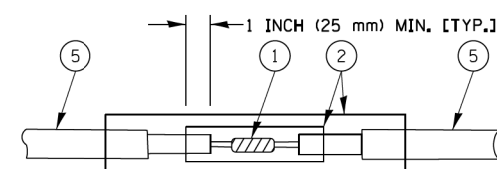


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

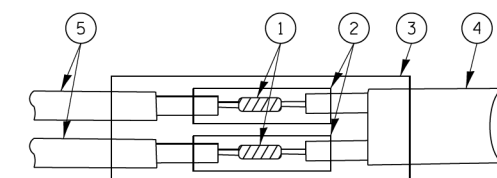


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

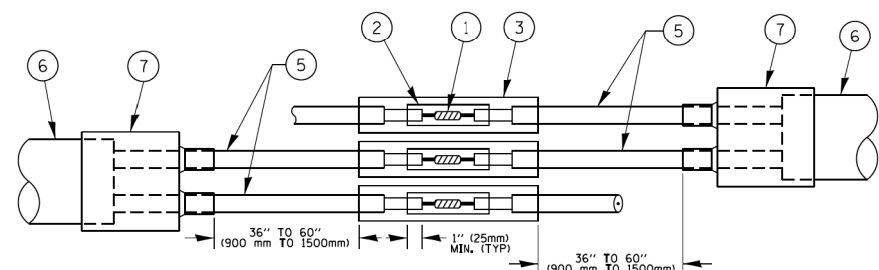


DETAIL "A"
LOOP-TO-LOOP SPLICE

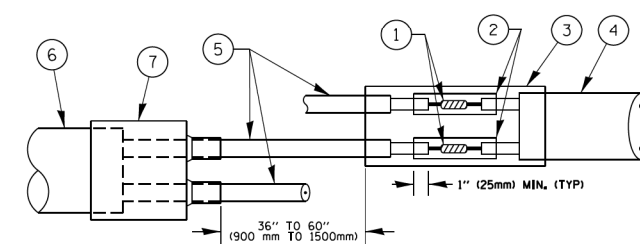


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

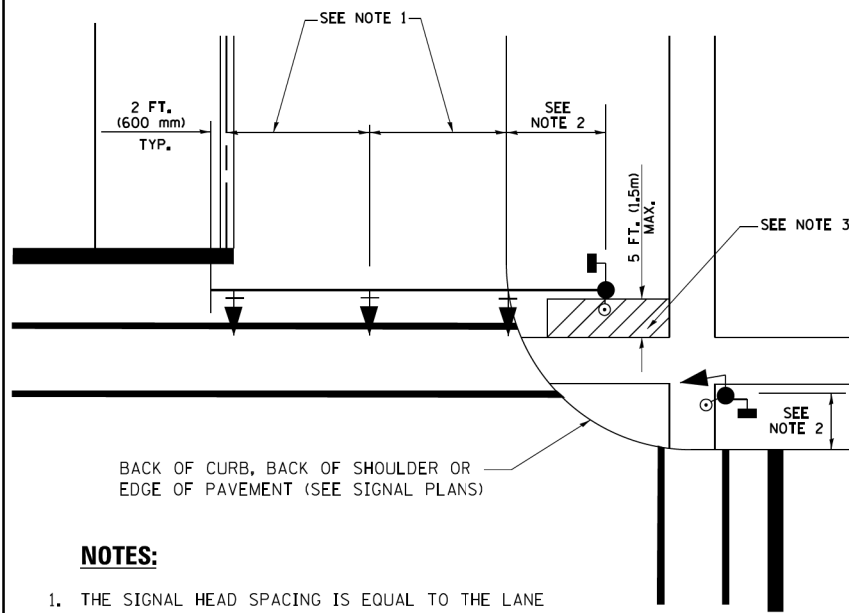
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	122
TS-05b		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

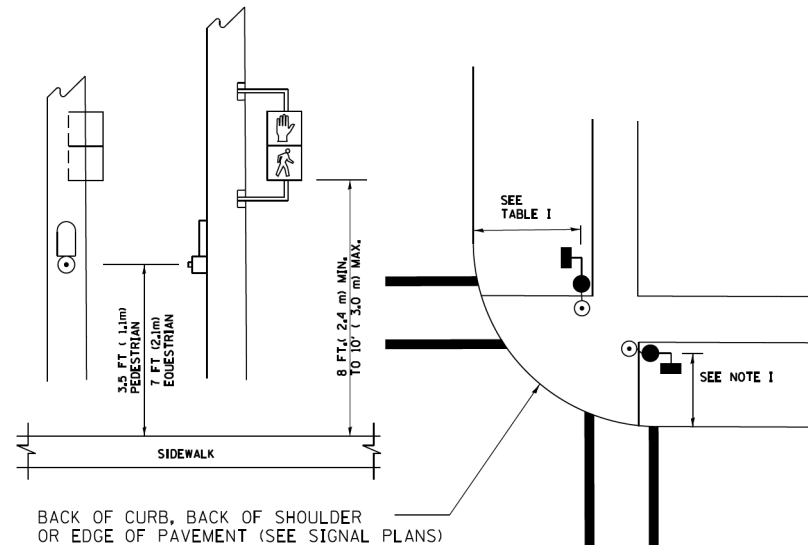
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

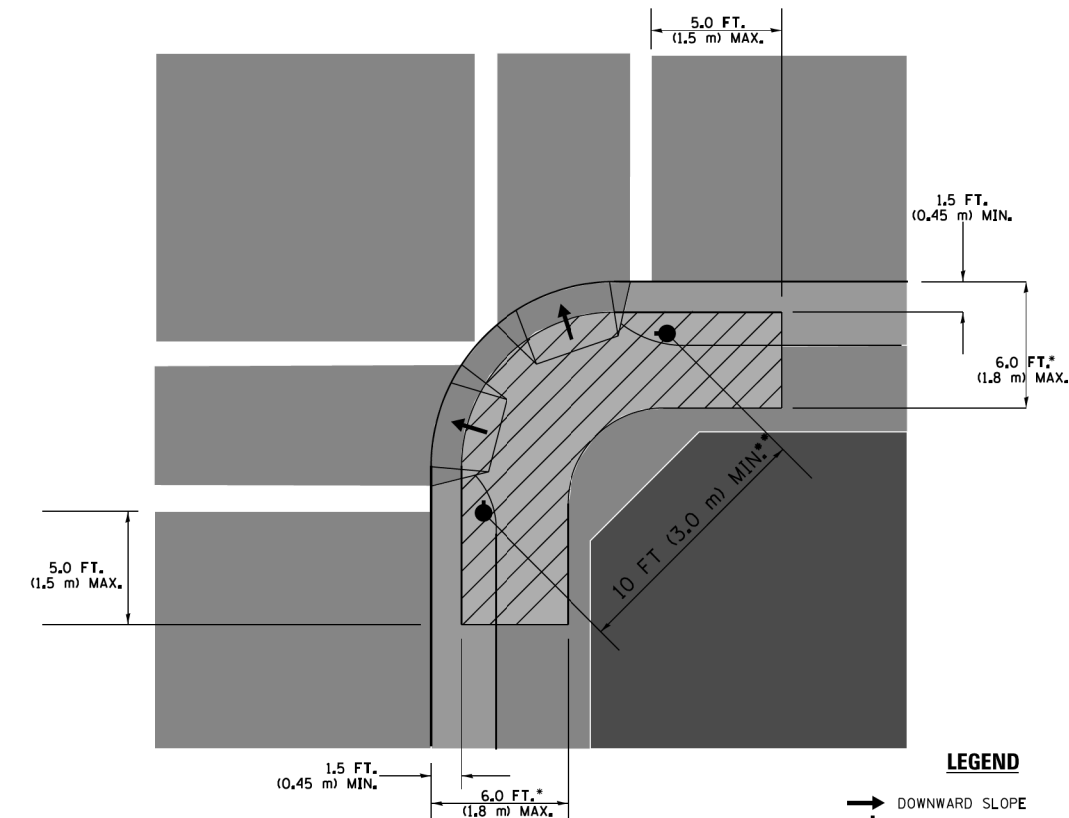
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

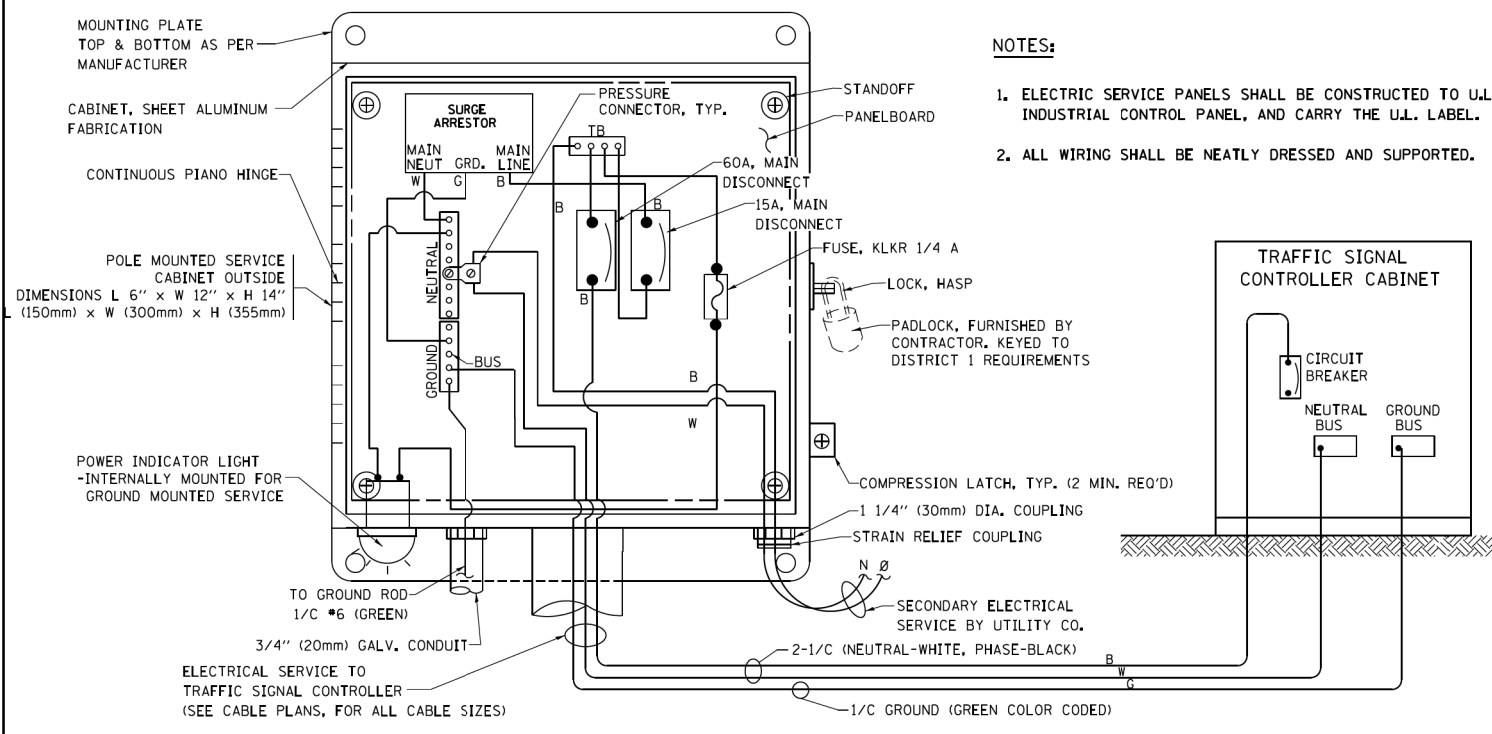
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

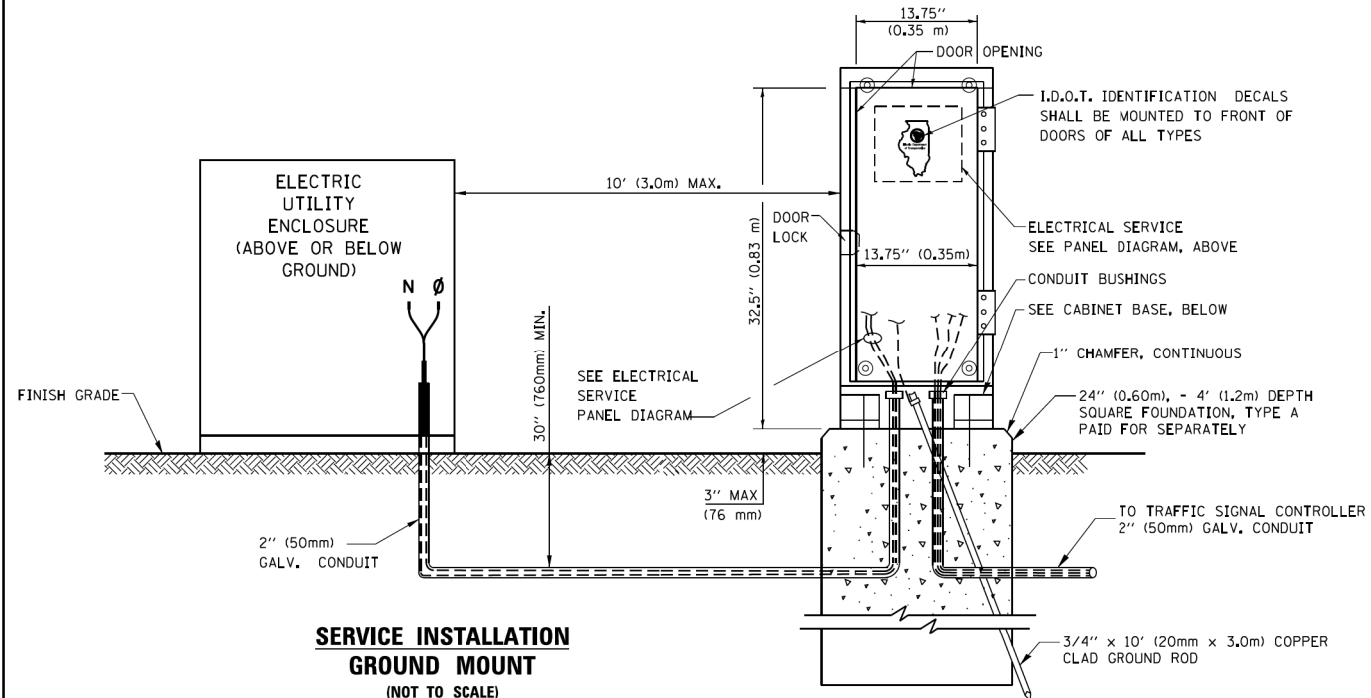
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

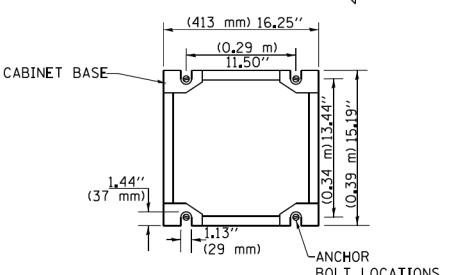
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ct\pw_work\p\midot\footemj\d0108315\ts05.dgn	PLOT SCALE = 50,0000 / 1in.	CHECKED - DAD	REVISED -			SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -			CONTRACT NO. 60Y25						
TS-05C												



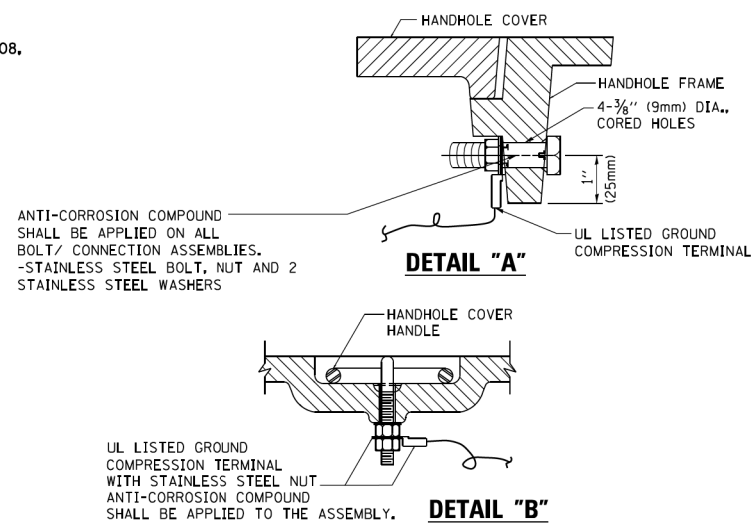
**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

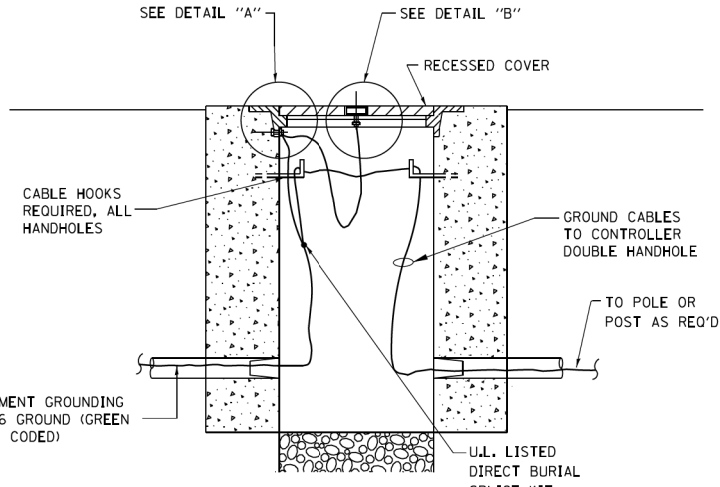


CABINET – BASE BOLT PATTERN (NOT TO SCALE)

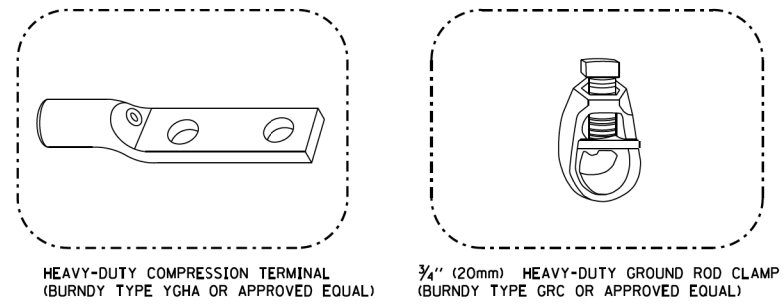


**NOTES:
GROUNDING SYSTEM**

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.), GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

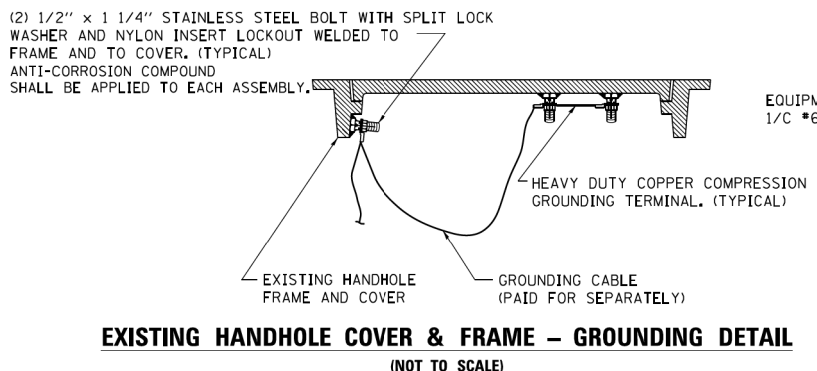


HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)

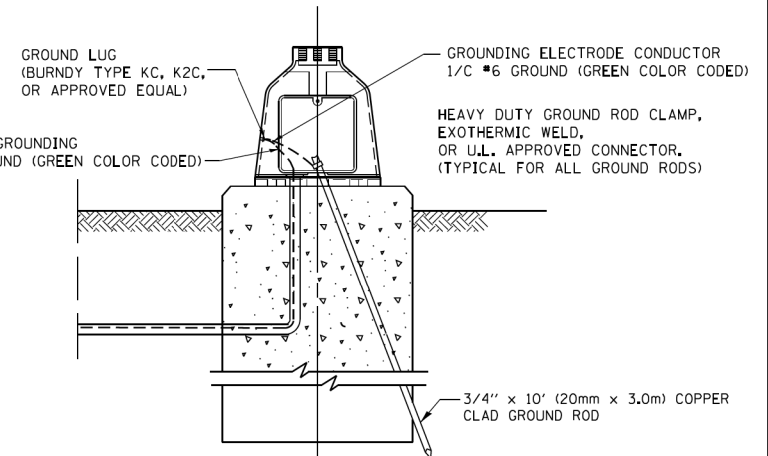


NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

TS SHT NO. 4

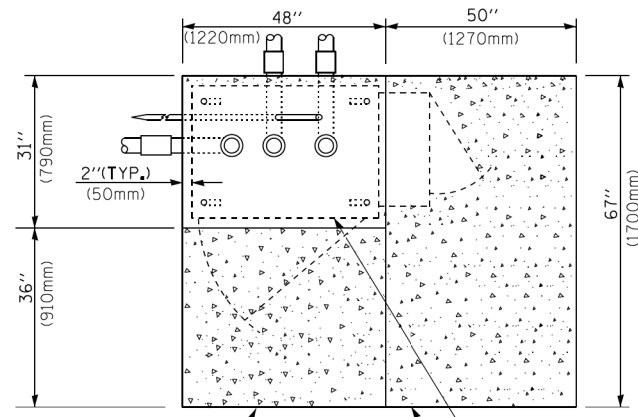
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PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

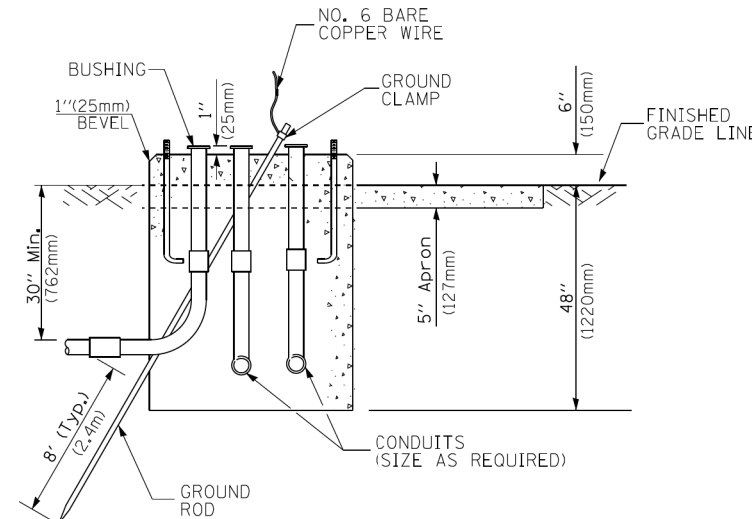
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	124
TS-05d		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

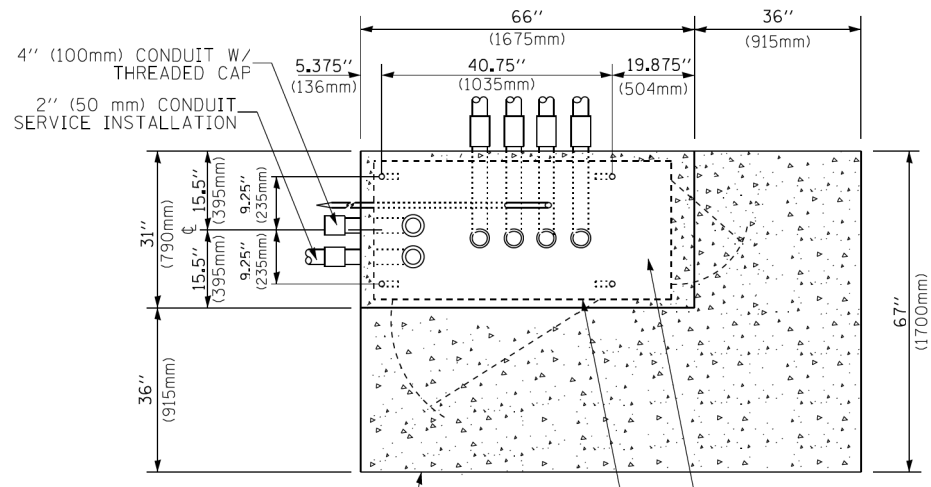
SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.



TOP VIEW

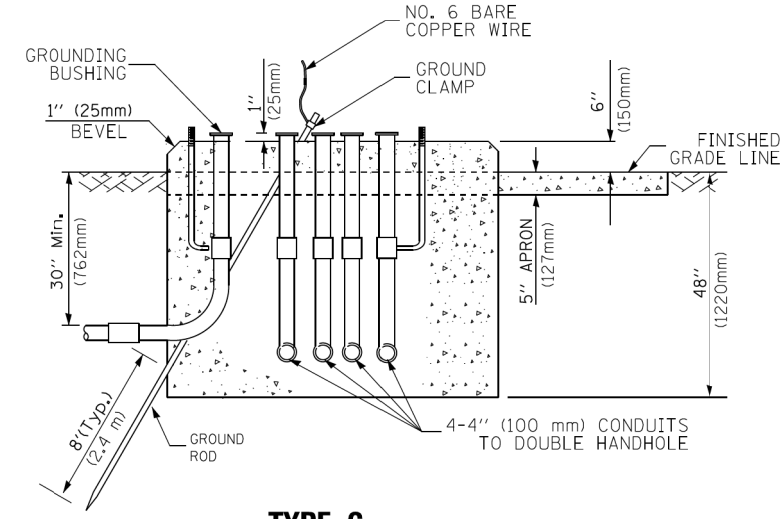


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

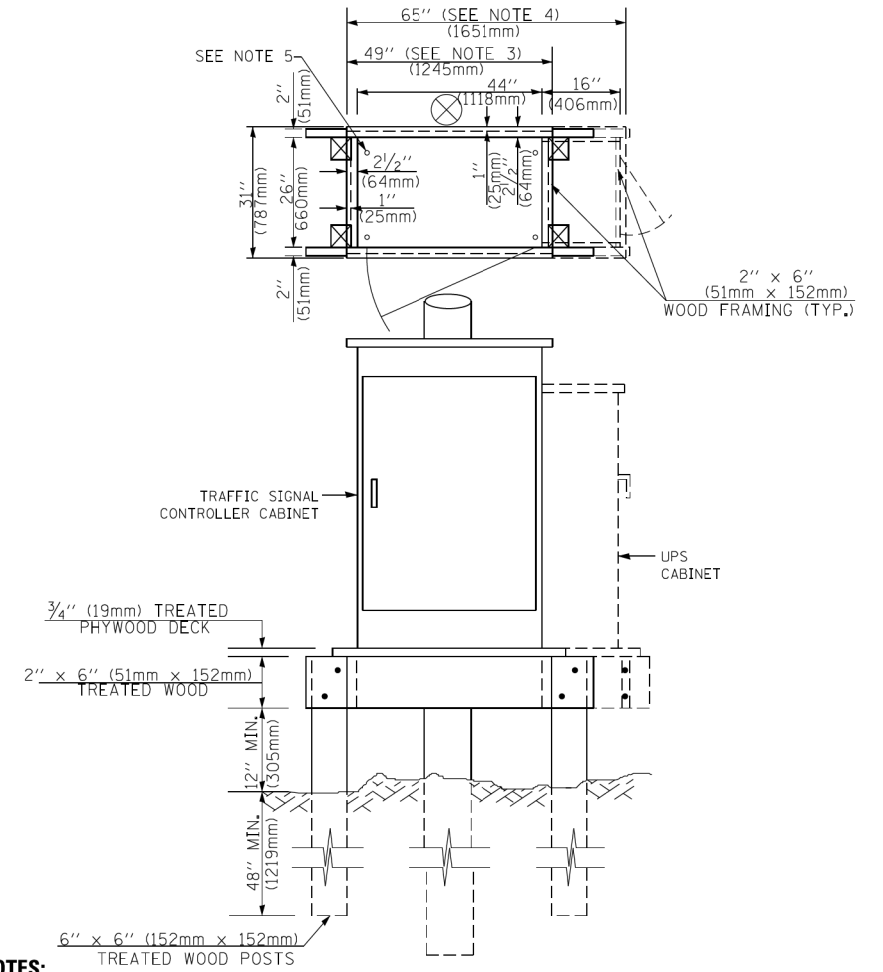


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE, FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

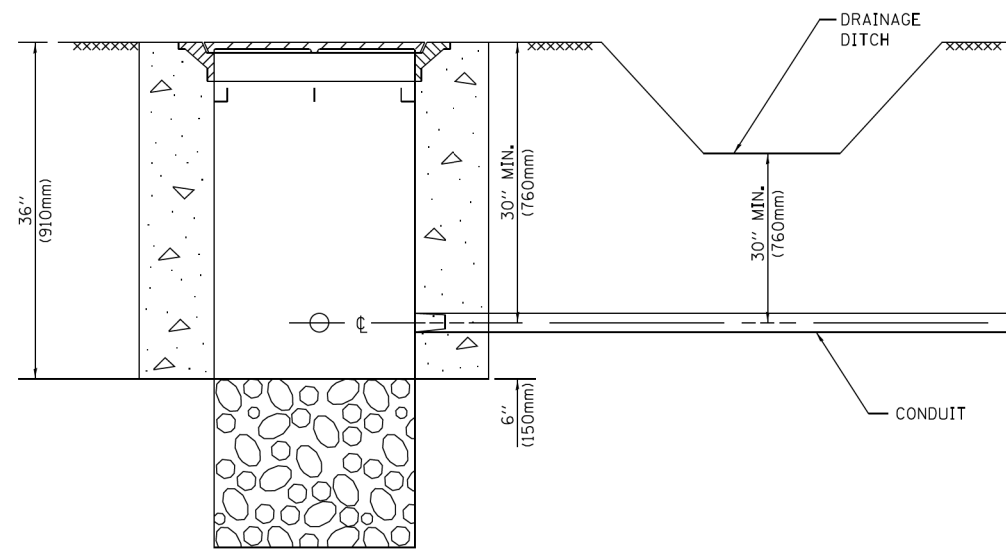
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

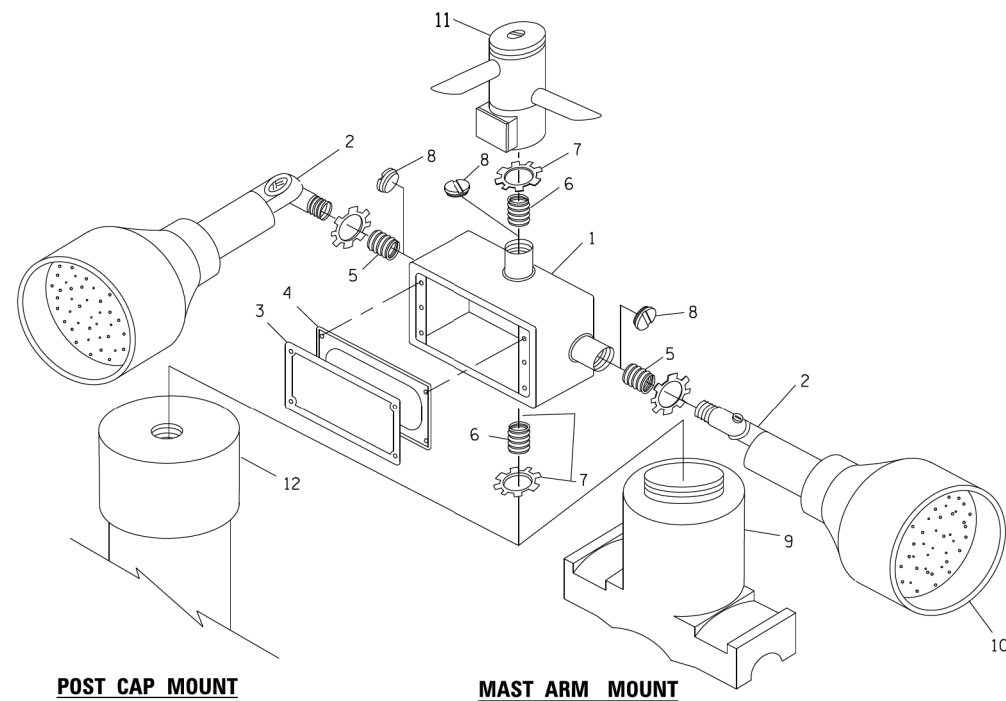
TS SHT NO. 5



NOTES:

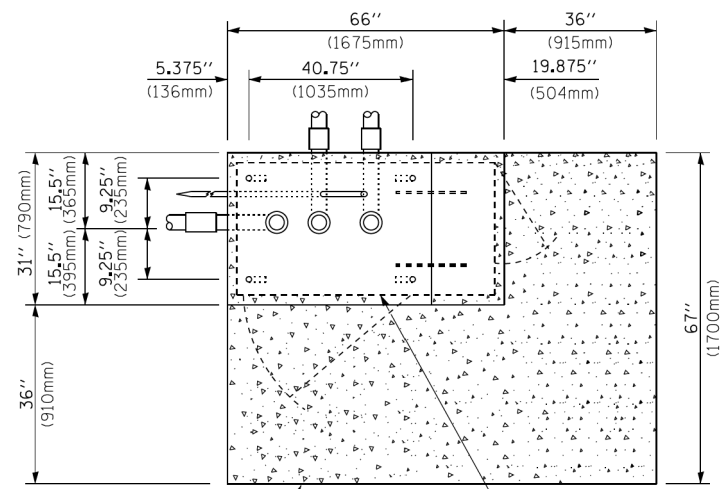
- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

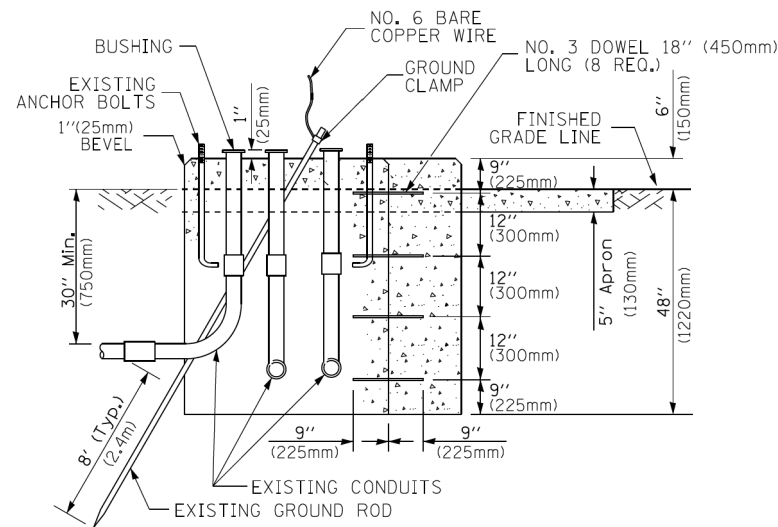


EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

TS SHT NO. 6



TOP VIEW
(NOT TO SCALE)

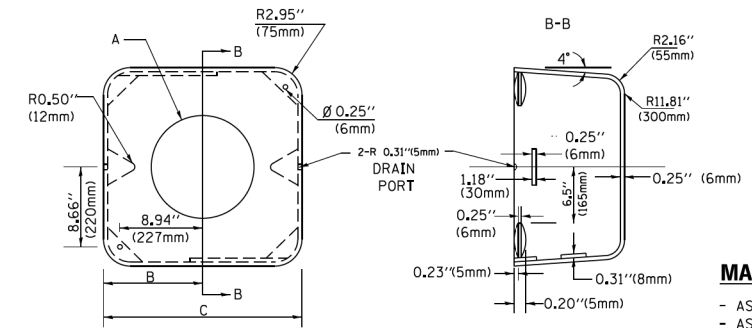


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

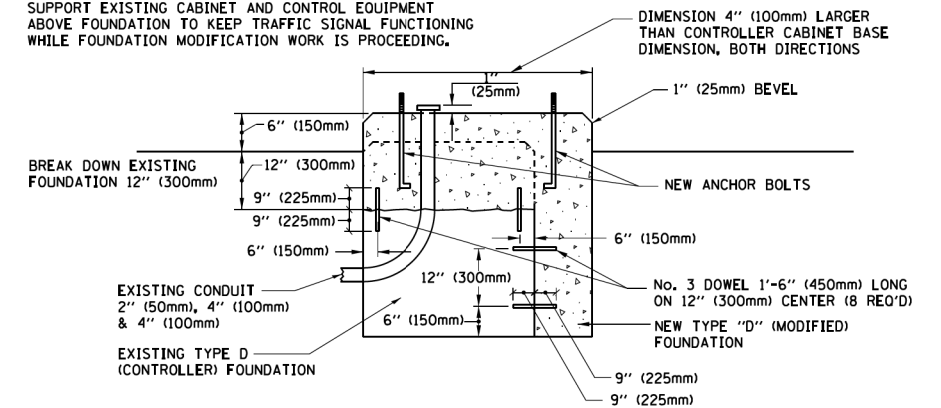
SHROUD

NOTES:

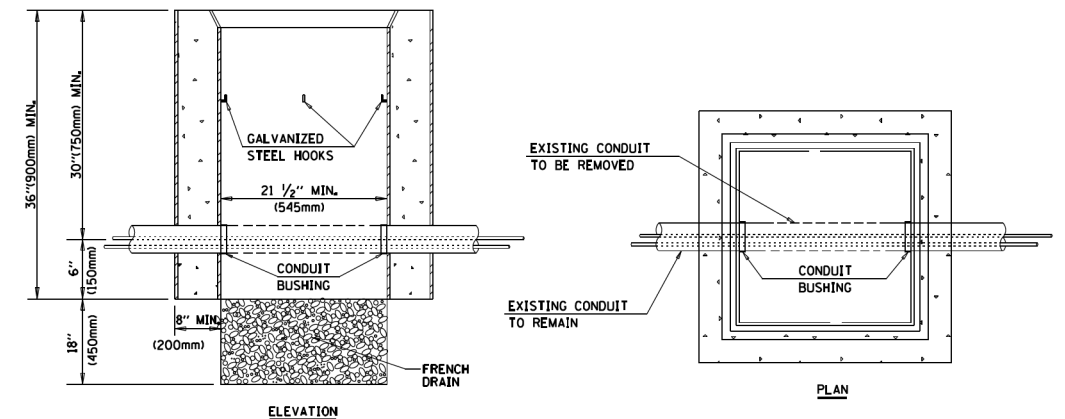
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

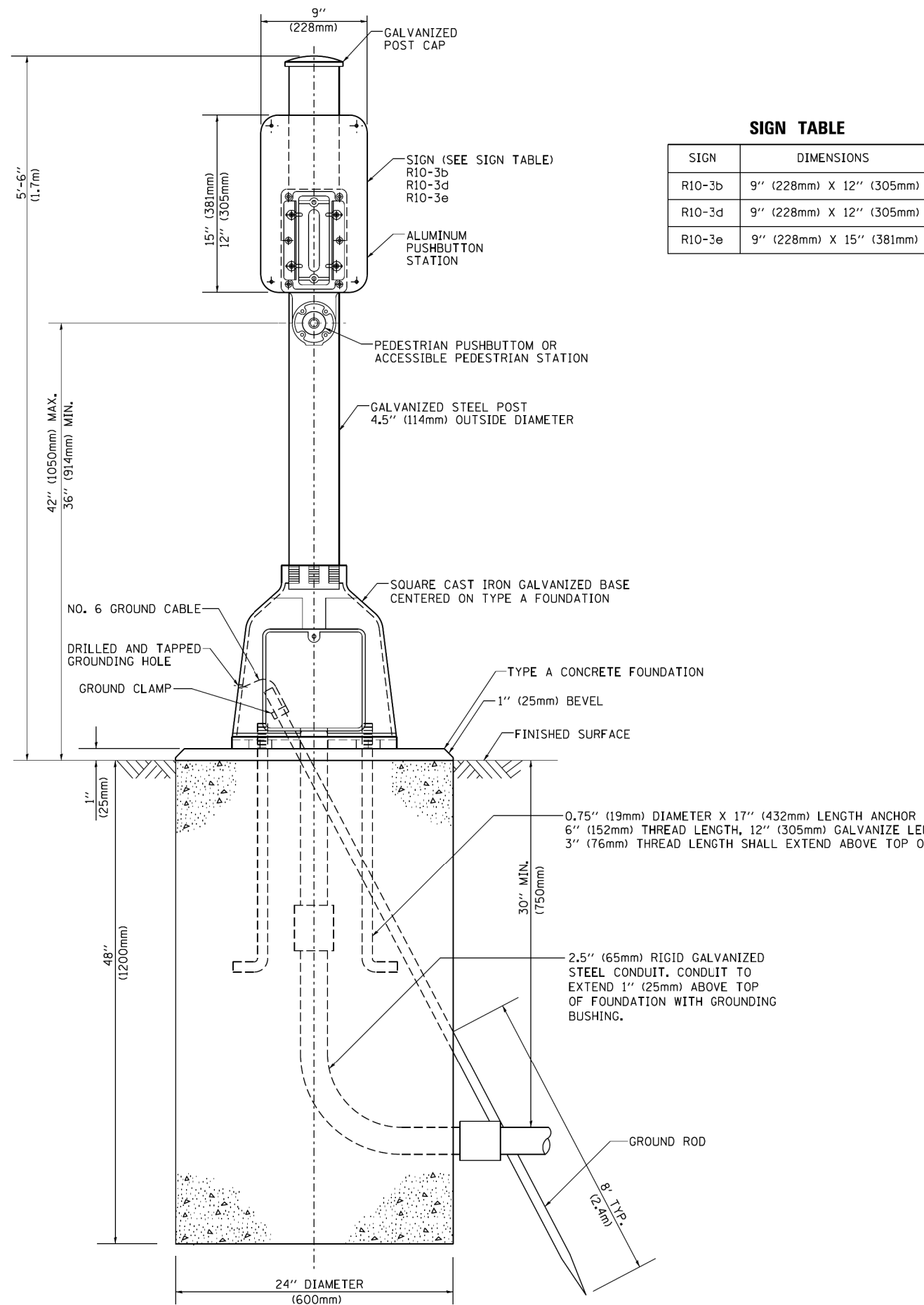
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	126
TS-05f		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				

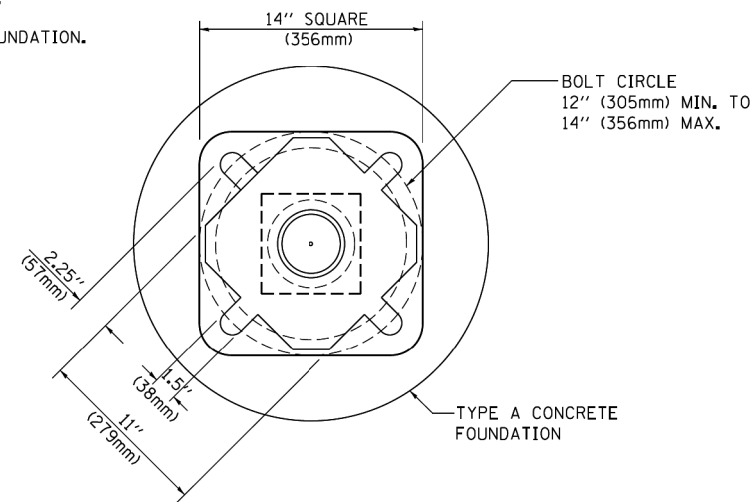
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SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

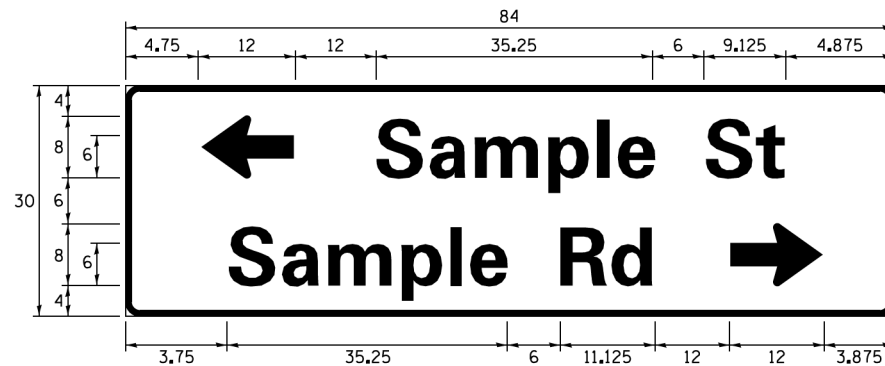
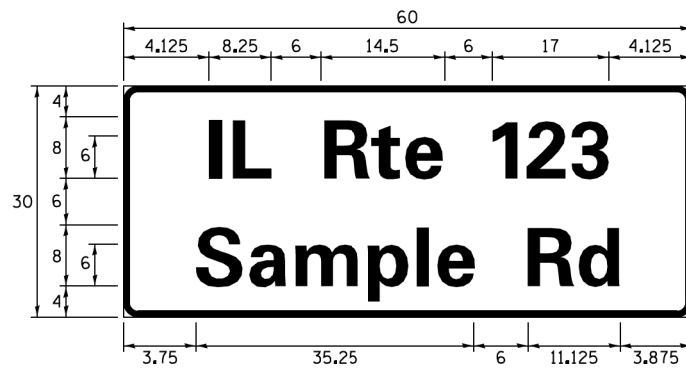
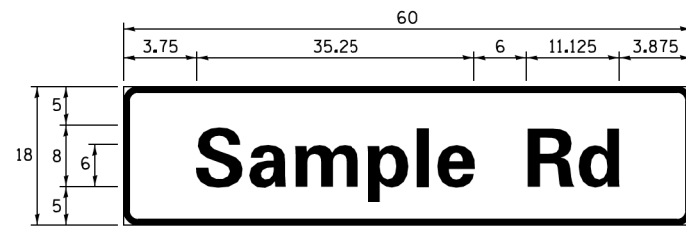
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	127
TS-05g		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Clr	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

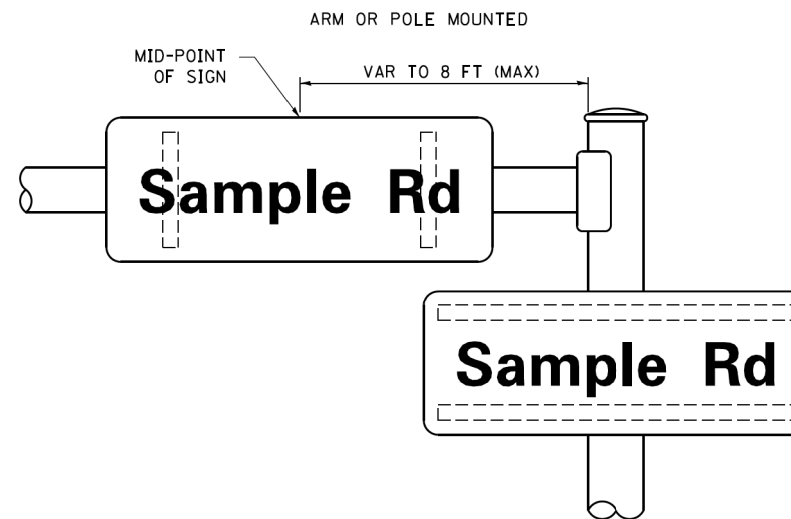
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

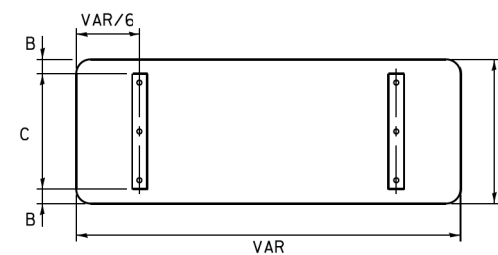
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

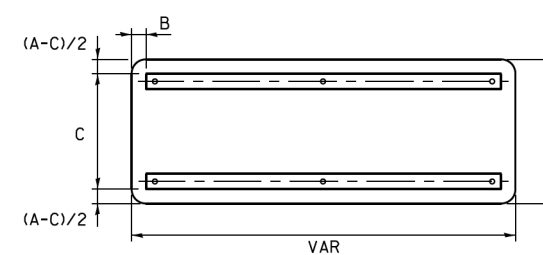
MOUNTING LOCATION



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

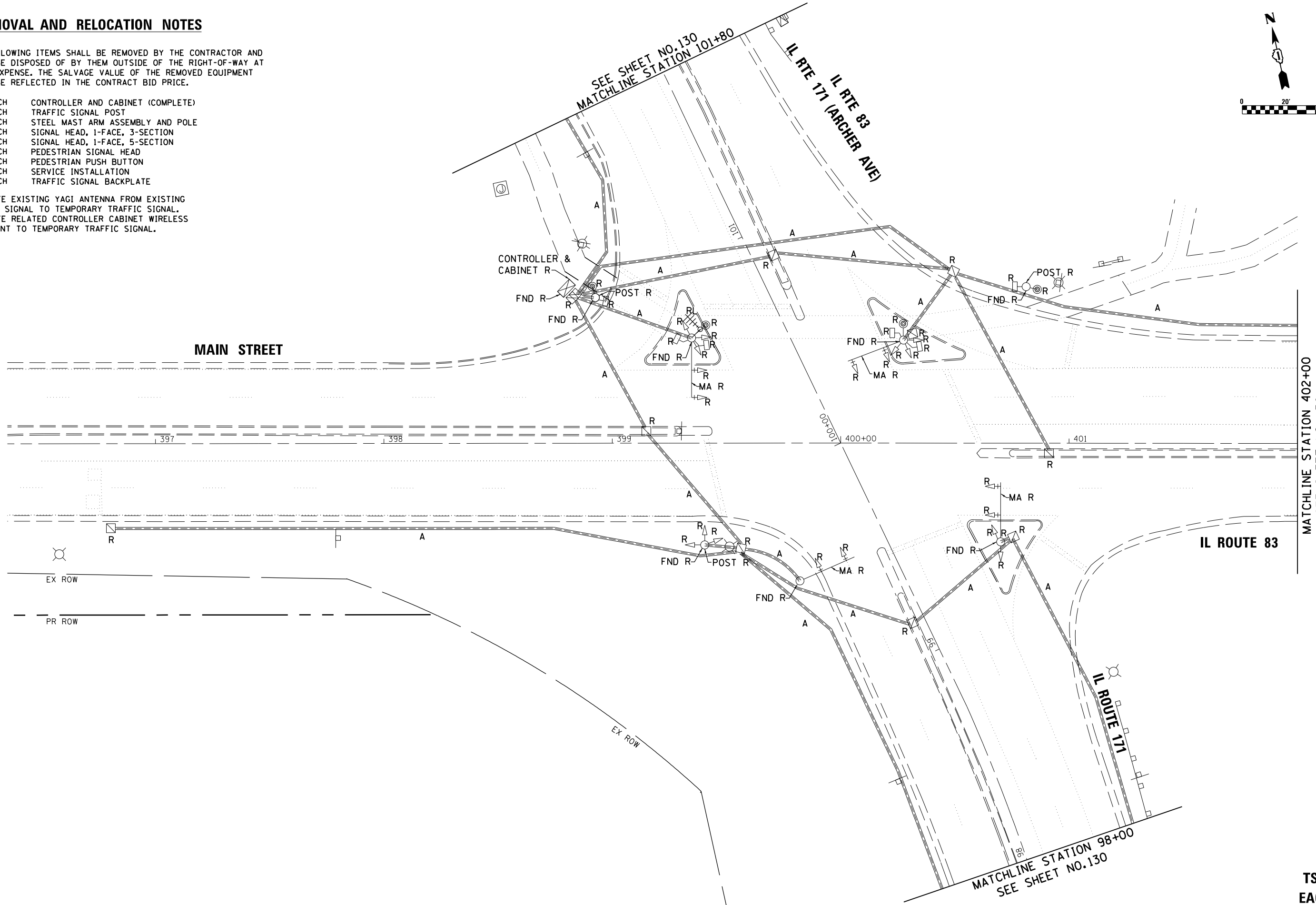
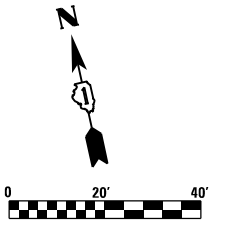
TS SHT NO. 8

REMOVAL AND RELOCATION NOTES

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 3 EACH TRAFFIC SIGNAL POST
- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 5 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 14 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 6 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH BUTTON
- 1 EACH SERVICE INSTALLATION
- 8 EACH TRAFFIC SIGNAL BACKPLATE

RELOCATE EXISTING YAGI ANTENNA FROM EXISTING TRAFFIC SIGNAL TO TEMPORARY TRAFFIC SIGNAL.
RELOCATE RELATED CONTROLLER CABINET WIRELESS EQUIPMENT TO TEMPORARY TRAFFIC SIGNAL.



TS SHT NO. 9

FILE NAME = D:\60\25-shr-tst19.dgn



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DRAWN - VEA	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

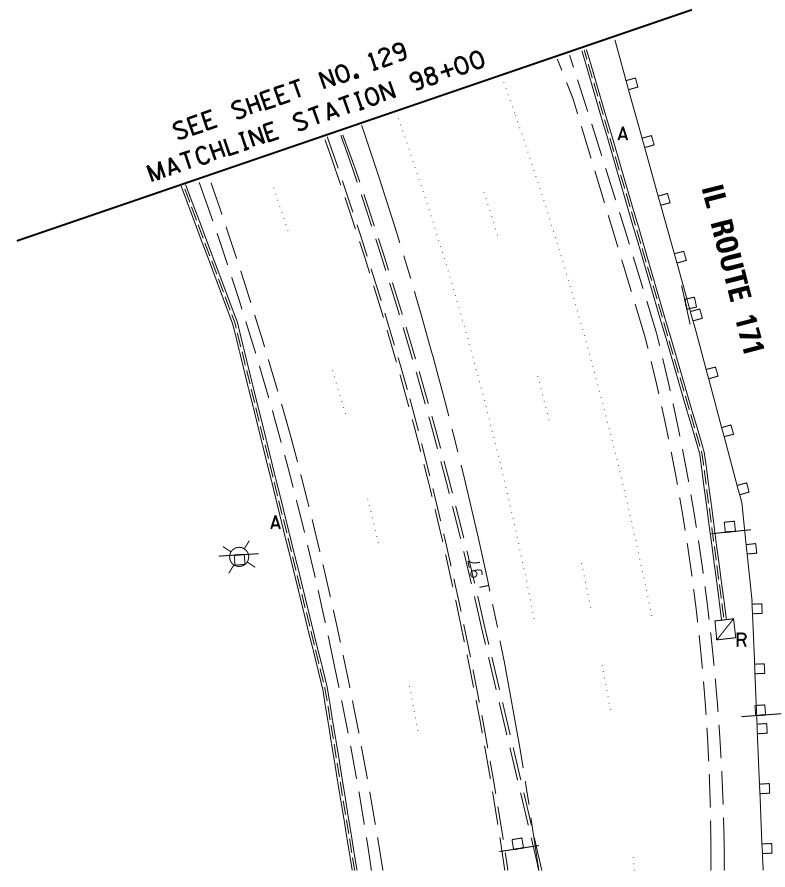
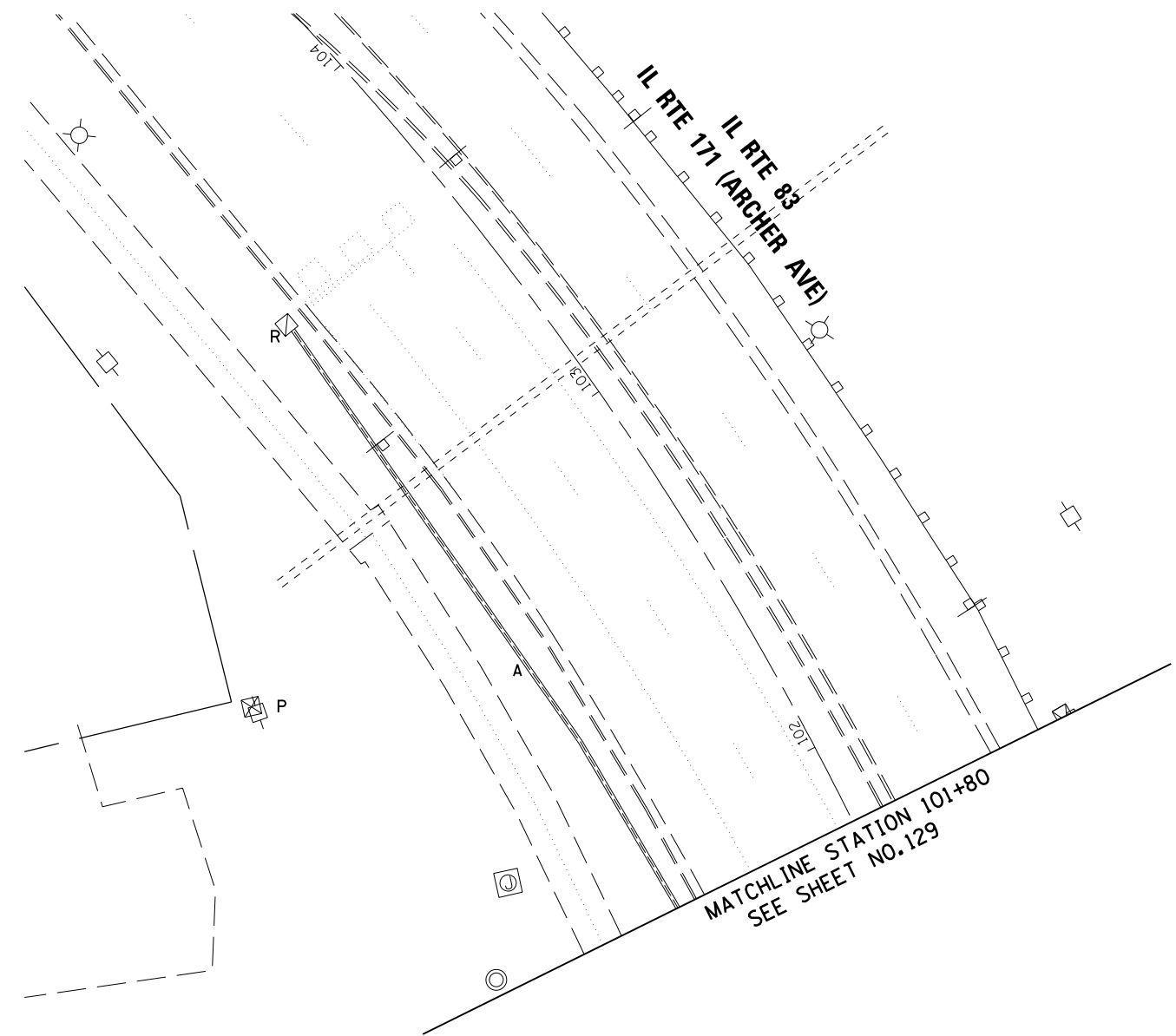
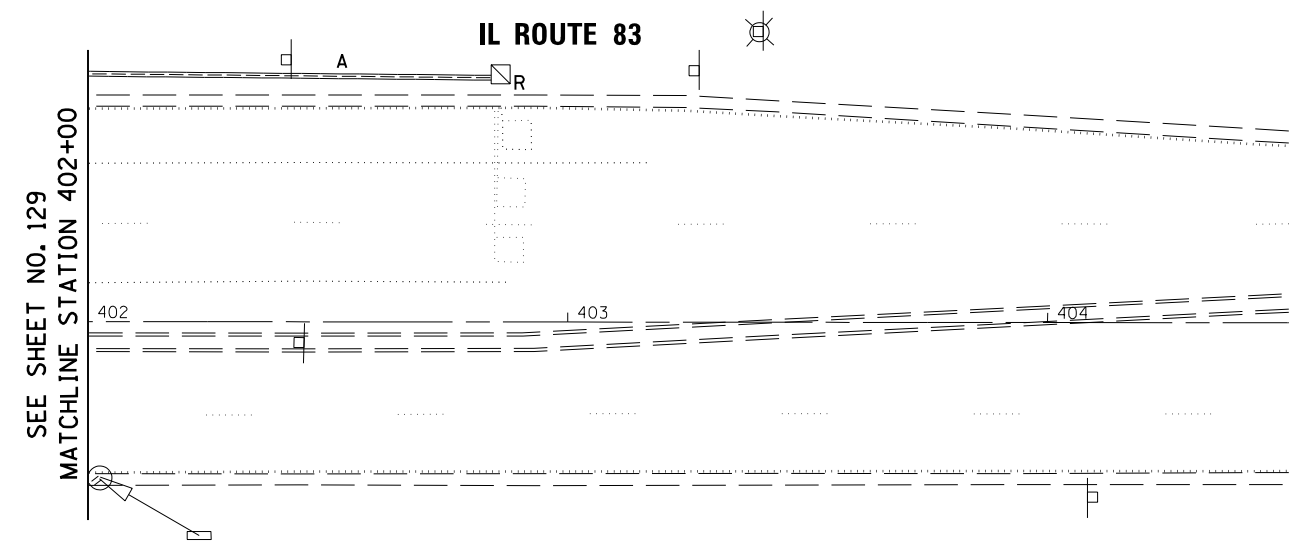
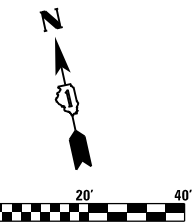
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
EXISTING TRAFFIC SIGNAL REMOVAL PLAN (SHEET 1 OF 2)**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 129
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TS 3370
EAGLE 6E**



TS SHT NO. 10

FILE NAME = D:\60Y25-shr-ts20.dgn



USER NAME = Valvarez	DESIGNED - FA	REVISED -
DRAWN - VEA	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

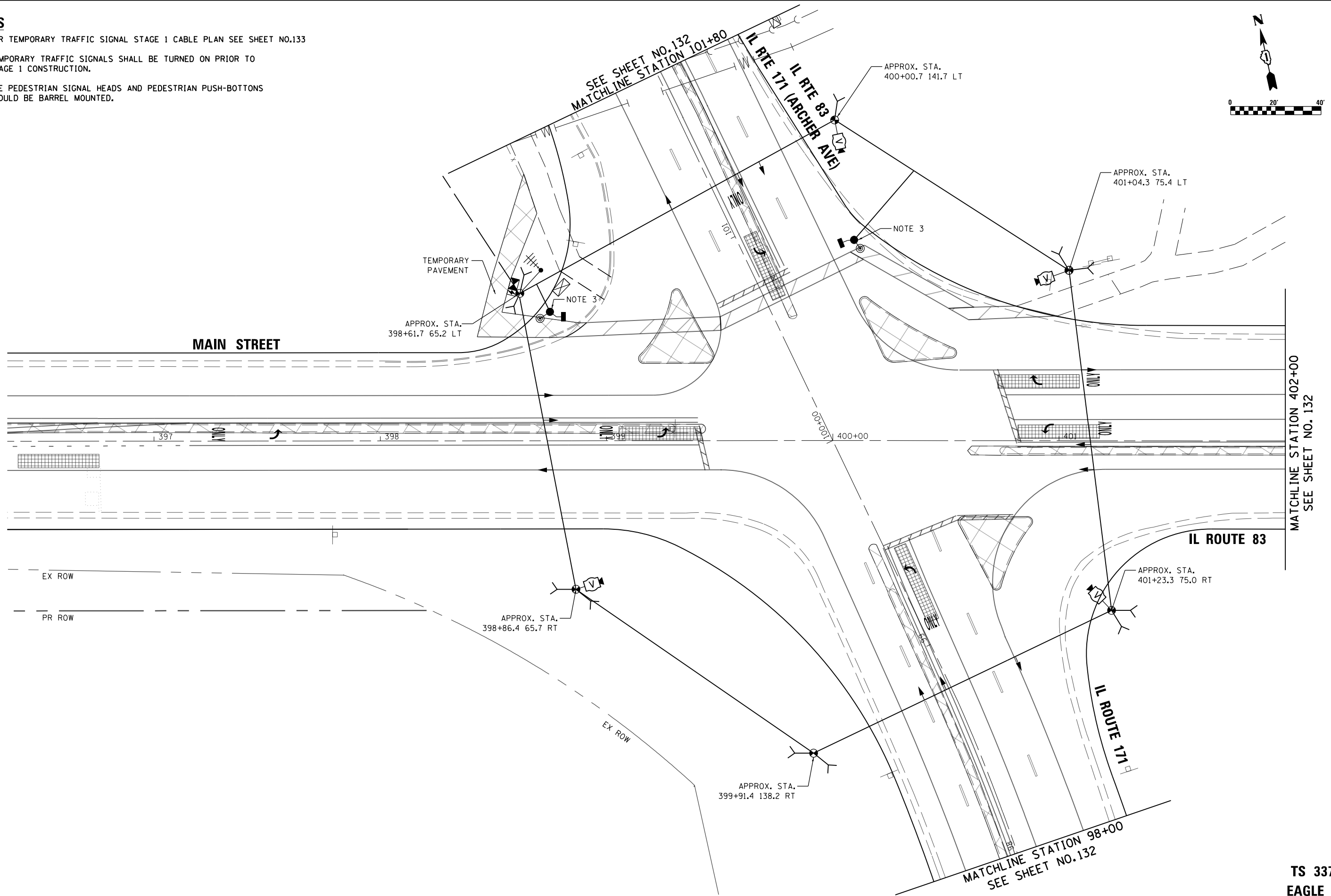
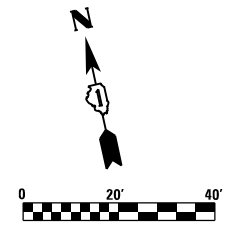
IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
EXISTING TRAFFIC SIGNAL REMOVAL PLAN (SHEET 2 OF 2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	130
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
EAGLE 6E

NOTES

1. FOR TEMPORARY TRAFFIC SIGNAL STAGE 1 CABLE PLAN SEE SHEET NO.133
2. TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED ON PRIOR TO STAGE 1 CONSTRUCTION.
3. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTONS SHOULD BE BARREL MOUNTED.



TS SHT NO. 11

FILE NAME = D:\60Y25-sh1-tst.dgn

RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

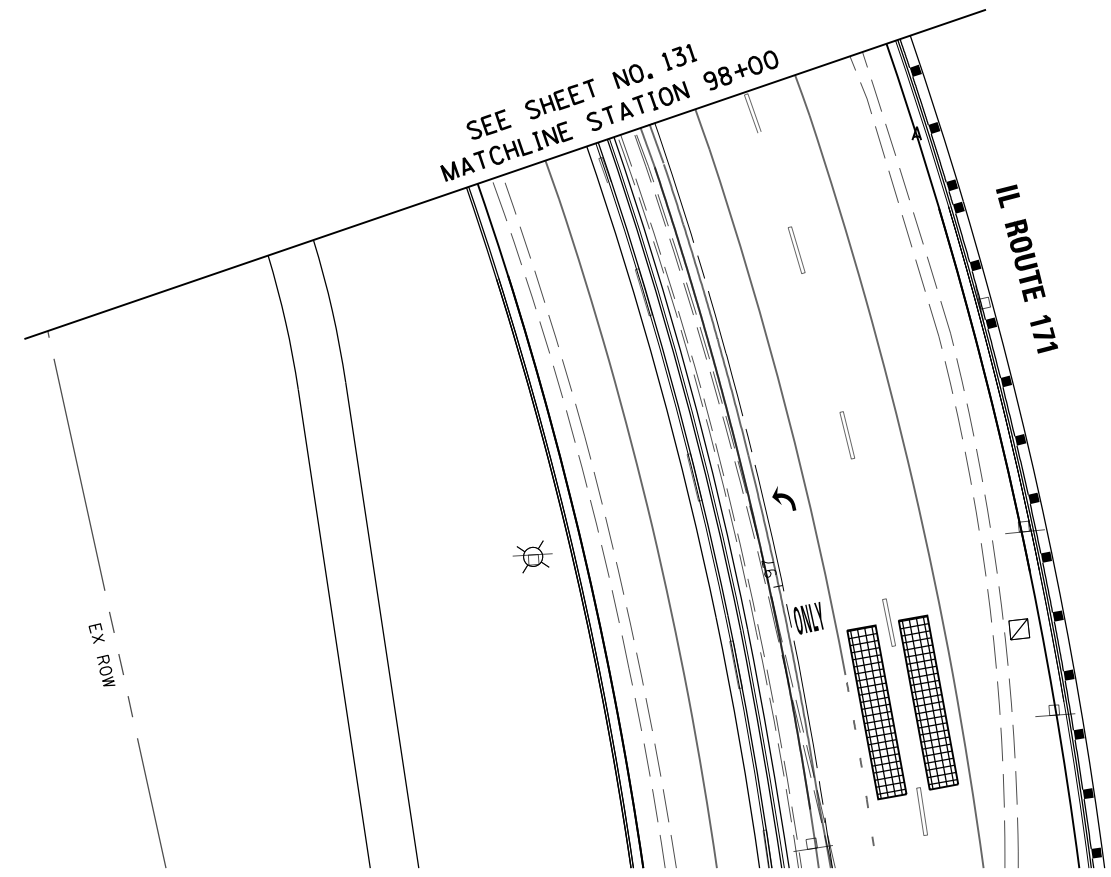
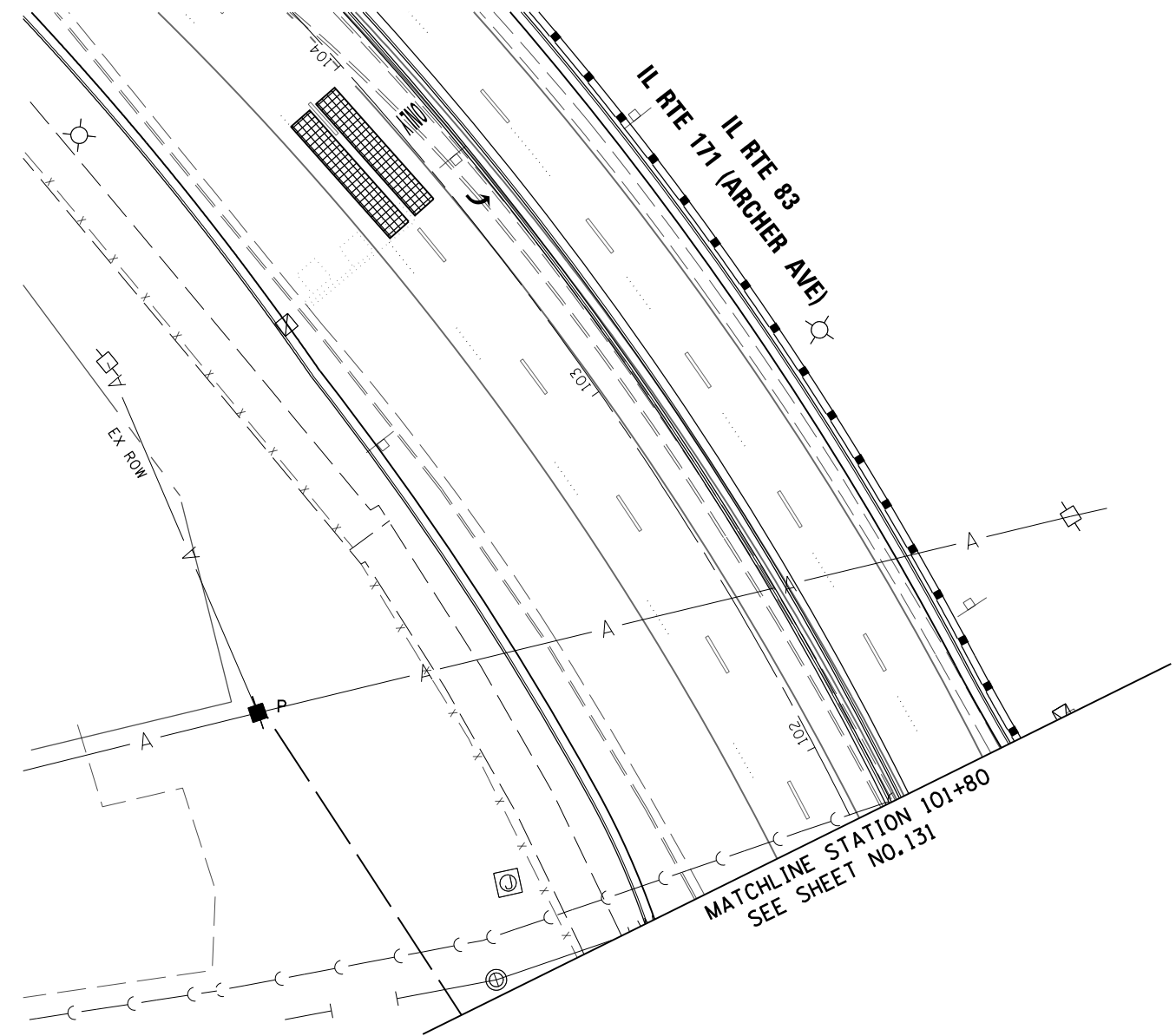
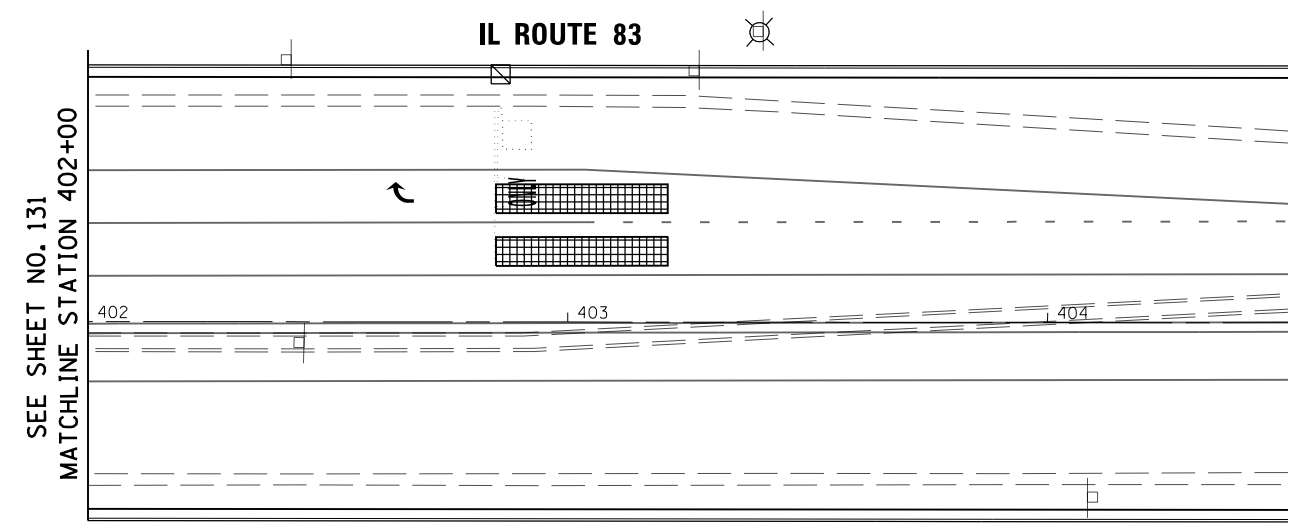
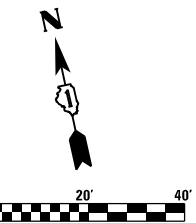
USER NAME = Valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 1 (SHT 1 OF 2)
SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	131
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
EAGLE 6E



TS SHT NO. 12

FILE NAME = D:\60Y25-sh1-t2.dgn



USER NAME = valvarez	DESIGNED - FA	REVISED -
DRAWN - VEA	REVISIONS -	
CHECKED - MF	REVISIONS -	
DATE - 6/30/2017	REVISIONS -	

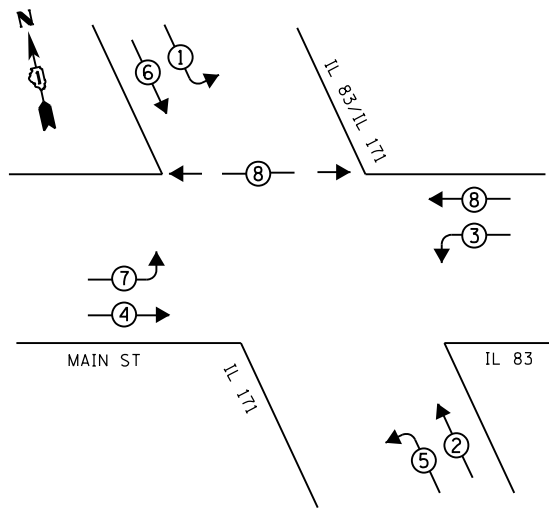
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 1 (SHT 2 OF 2)

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 132
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
EAGLE 6E

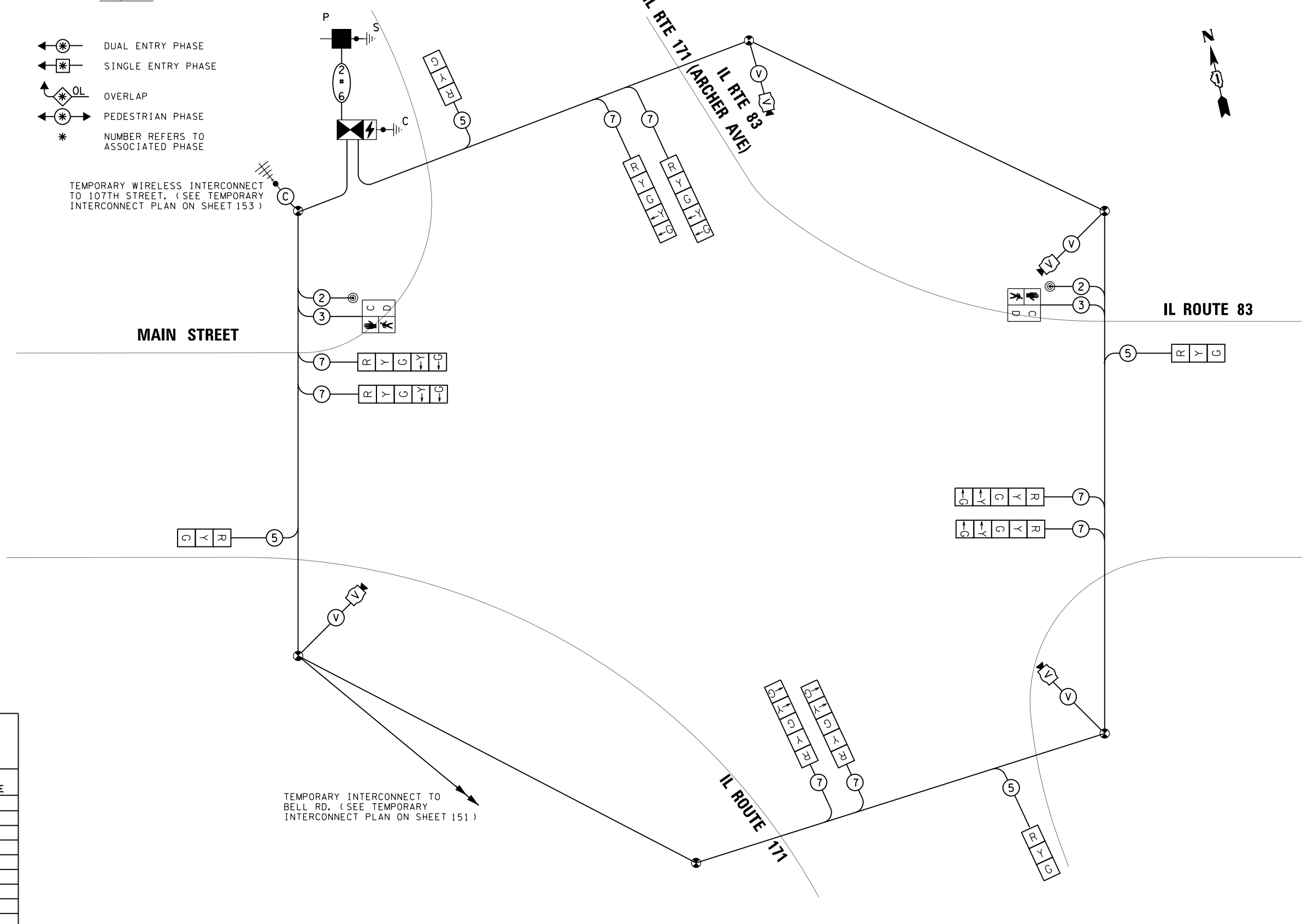
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ◀*▶ DUAL ENTRY PHASE
- ◀* SINGLE ENTRY PHASE
- ◀*OL▶ OVERLAP
- ◀*▶ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY WIRELESS INTERCONNECT TO 107TH STREET. (SEE TEMPORARY INTERCONNECT PLAN ON SHEET 153)



TEMPORARY CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
ARROW	16	10	10	16
PED SIGNAL	2	20	100	40
VIDEO SYSTEM	1	150	100	150
CONTROLLER	1	100	100	100
UPS	1	25	100	25
TOTAL				474

ENERGY COSTS TO: ILLINOIS DEPT. OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JAMES GLOVER
PHONE: 815-724-5054
COMPANY: COMED

TS SHT NO. 13

FILE NAME = D:\6025-sh-t-ts3.dgn



USER NAME = VALVAREZ
DESIGNED - FA
DRAWN - VEA
CHECKED - MF
DATE - 6/30/2017

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL CABLE PLAN, PHASE DIAGRAM - STAGE 1**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

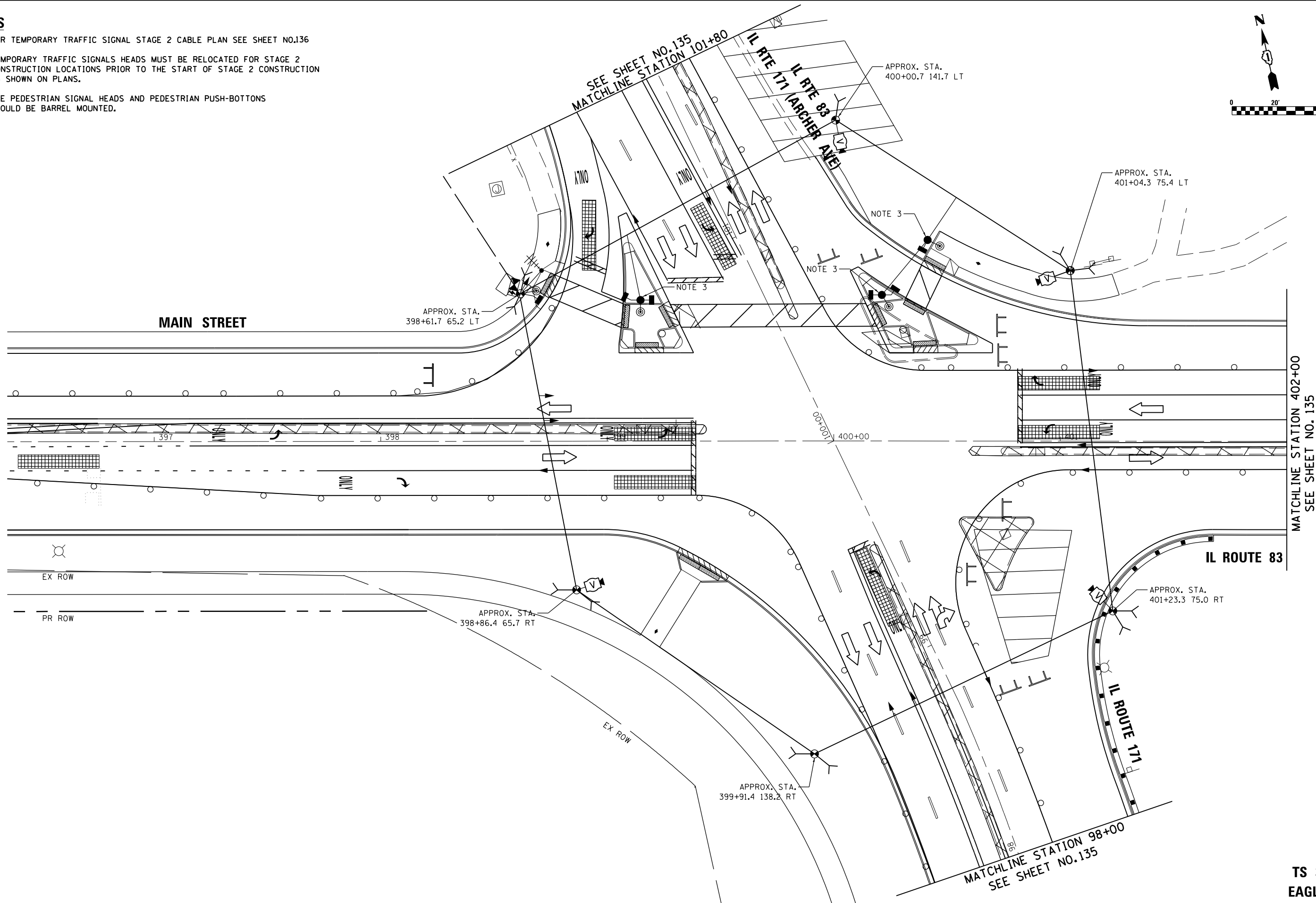
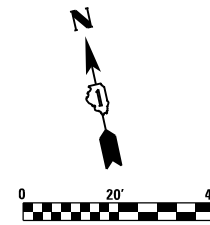
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	133
CONTRACT NO. 60Y25				

**TS 3370
EAGLE 6E**

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

NOTES

1. FOR TEMPORARY TRAFFIC SIGNAL STAGE 2 CABLE PLAN SEE SHEET NO.136
2. TEMPORARY TRAFFIC SIGNALS HEADS MUST BE RELOCATED FOR STAGE 2 CONSTRUCTION LOCATIONS PRIOR TO THE START OF STAGE 2 CONSTRUCTION AS SHOWN ON PLANS.
3. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTONS SHOULD BE BARREL MOUNTED.



TS SHT NO. 14

FILE NAME = D:\60Y25-sh2-tsl18.dgn

RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

USER NAME = valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

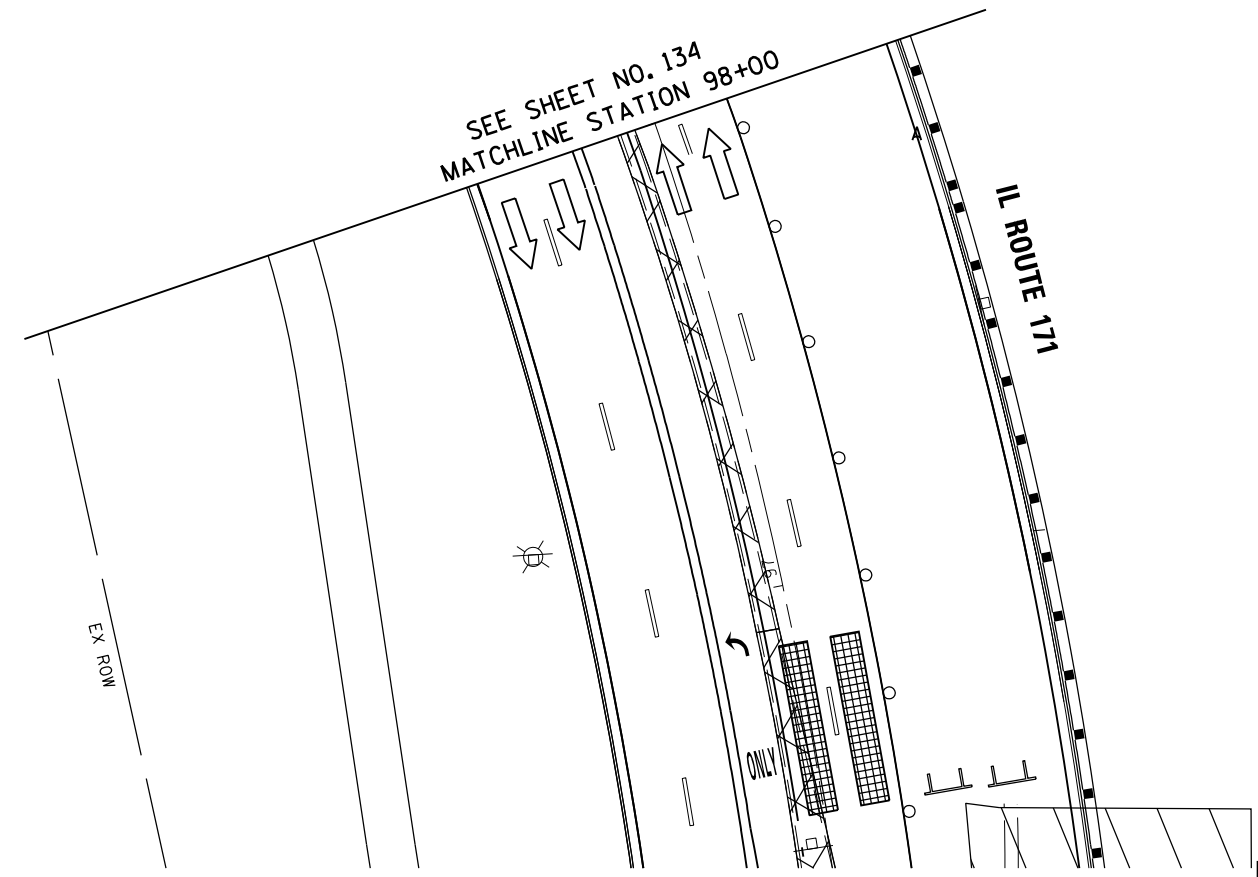
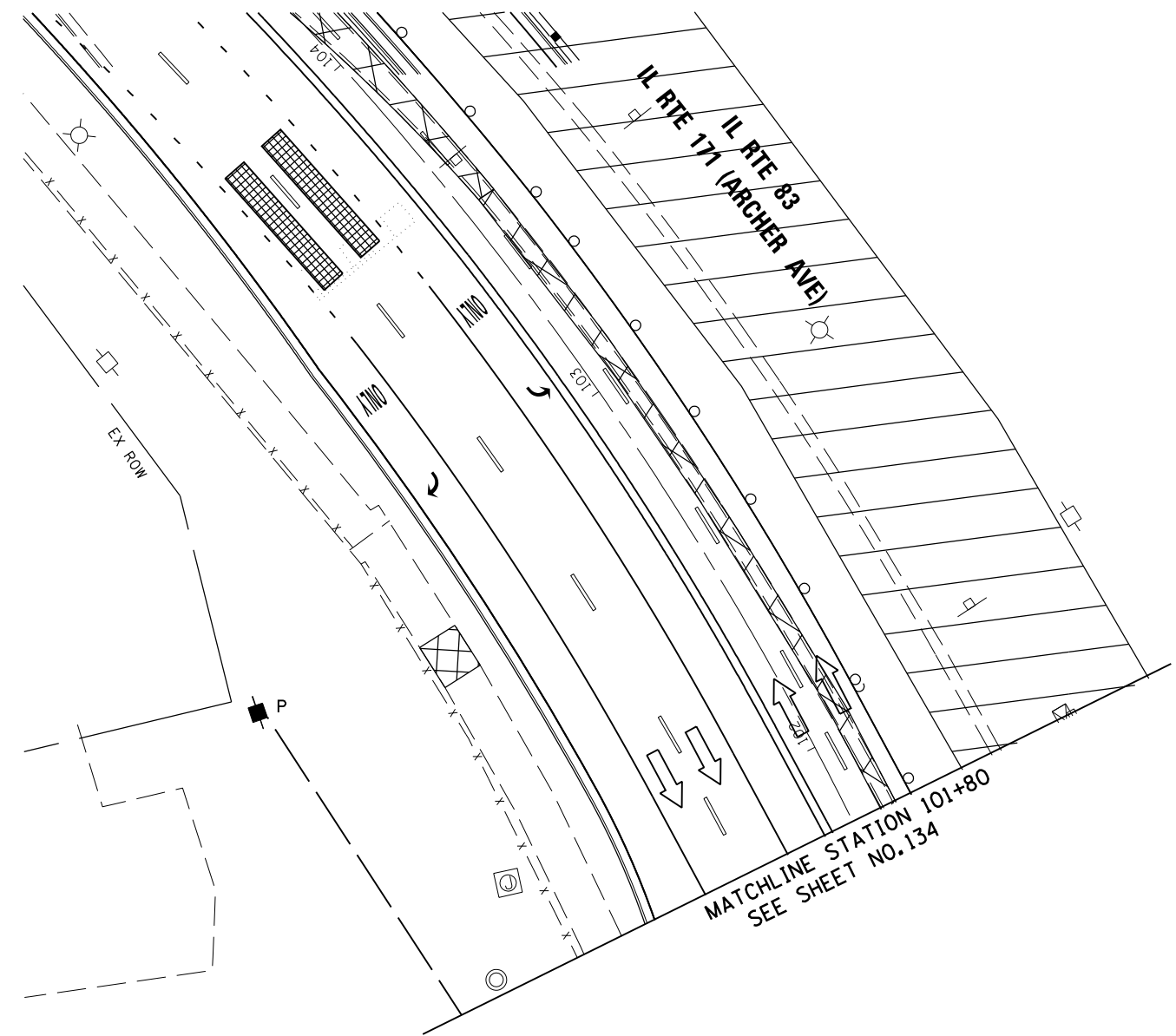
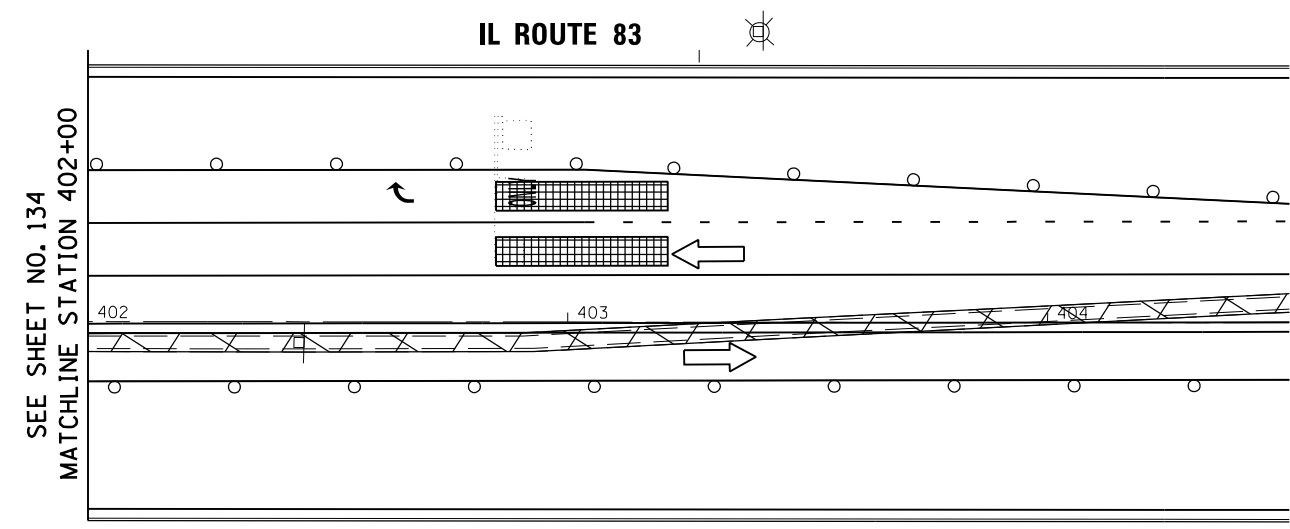
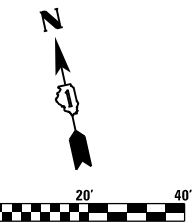
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 2 (SHT 1 OF 2)**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 134
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TS 3370
EAGLE 6E**



**TS 3370
EAGLE 6E**

TS SHT NO. 15

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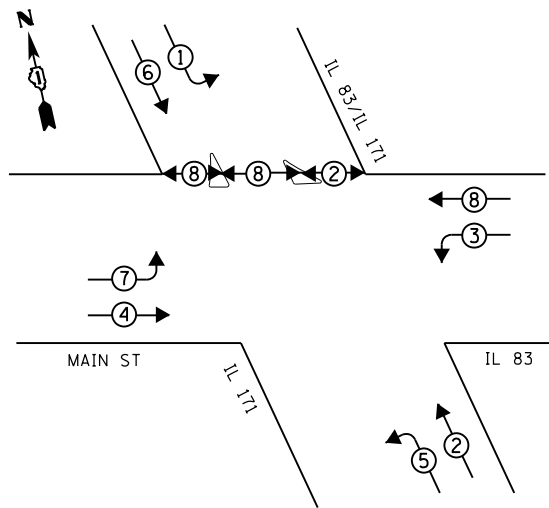
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DRAWN - VEA	REVISIONS -	
CHECKED - MF	REVISIONS -	
DATE - 6/30/2017	REVISIONS -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 2 (SHT 2 OF 2)**
SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 135
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

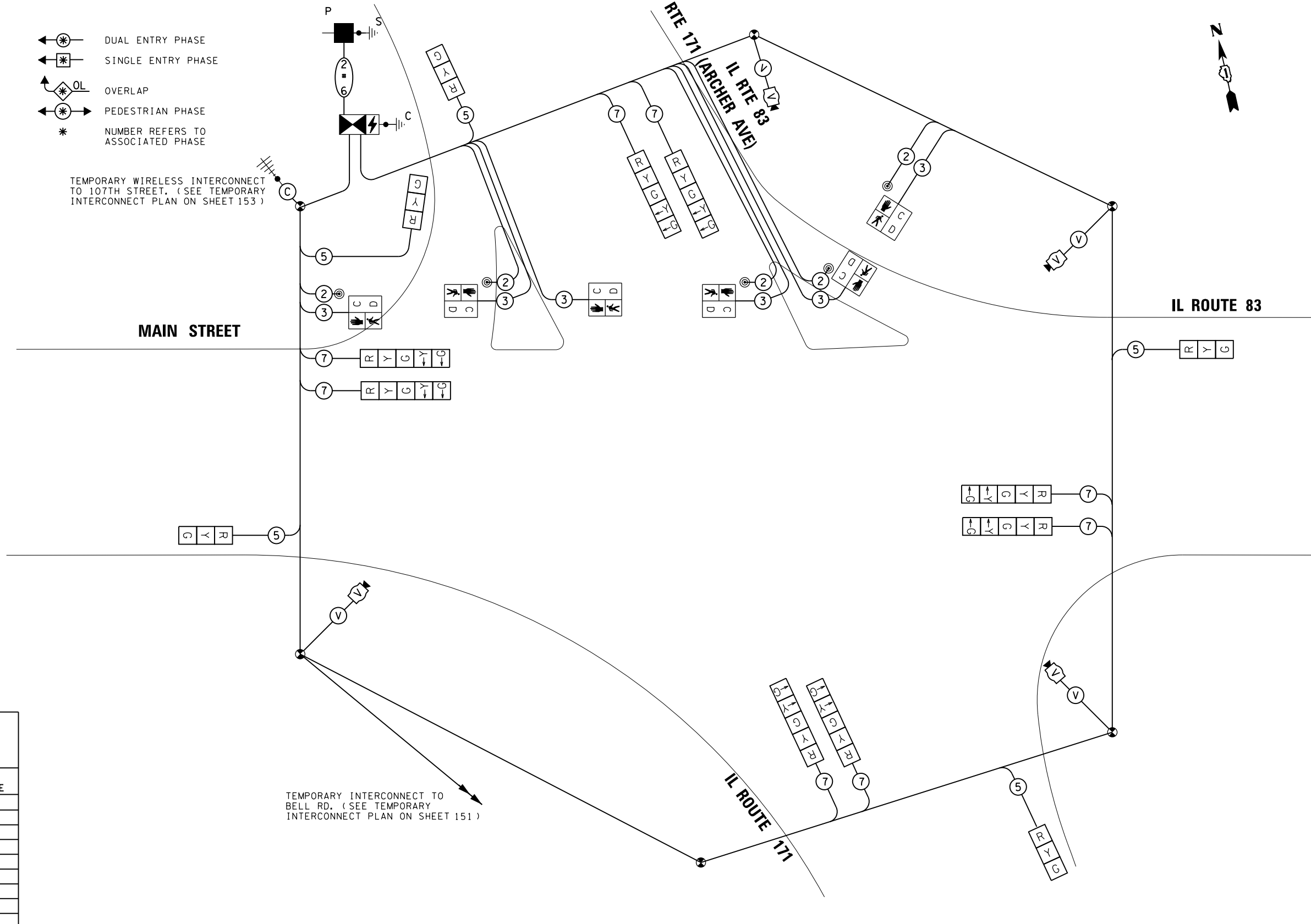
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ⊙* ← DUAL ENTRY PHASE
- ⊙* ← SINGLE ENTRY PHASE
- ⊙* OL ← OVERLAP
- ⊙* ← PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY WIRELESS INTERCONNECT TO 107TH STREET. (SEE TEMPORARY INTERCONNECT PLAN ON SHEET 153)



TEMPORARY INTERCONNECT TO BELL RD. (SEE TEMPORARY INTERCONNECT PLAN ON SHEET 151)

TEMPORARY CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	70
ARROW	16	10	10	16
PED SIGNAL	6	20	100	120
VIDEO SYSTEM	1	150	100	150
CONTROLLER	1	100	100	100
UPS	1	25	100	25
TOTAL				566

ENERGY COSTS TO: ILLINOIS DEPT. OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JAMES GLOVER
PHONE: 815-724-5054
COMPANY: COMED

TS SHT NO. 16

FILE NAME = D:\60Y25-sht-ts22.dgn



USER NAME = VALVAREZ
DESIGNED - FA
DRAWN - VEA
CHECKED - MF
DATE - 6/30/2017

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL CABLE PLAN, PHASE DIAGRAM - STAGE 2**

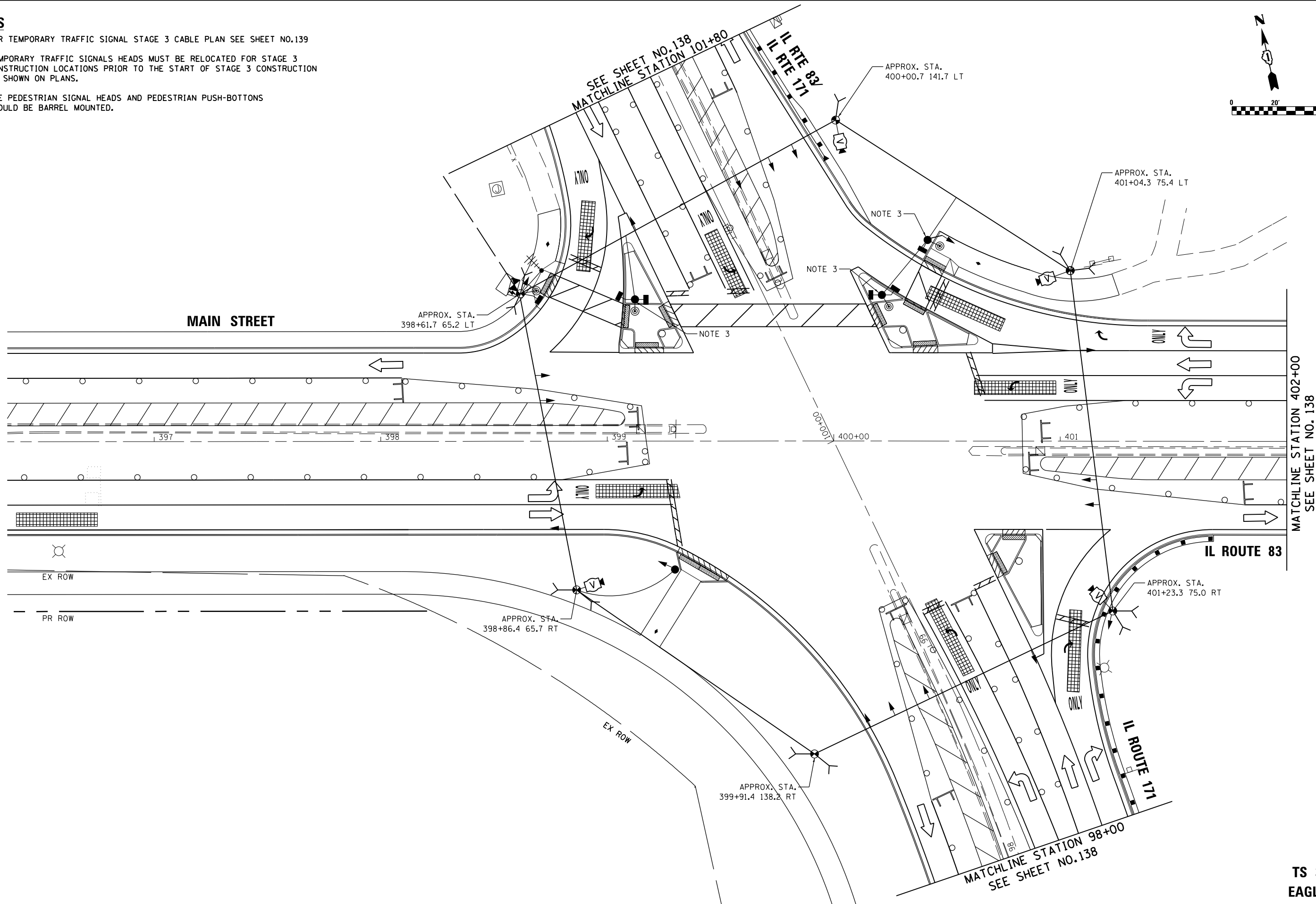
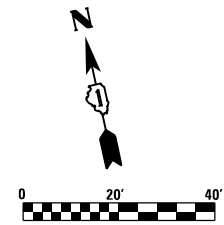
SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	136
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**TS 3370
EAGLE 6E**

NOTES

1. FOR TEMPORARY TRAFFIC SIGNAL STAGE 3 CABLE PLAN SEE SHEET NO.139
2. TEMPORARY TRAFFIC SIGNALS HEADS MUST BE RELOCATED FOR STAGE 3 CONSTRUCTION LOCATIONS PRIOR TO THE START OF STAGE 3 CONSTRUCTION AS SHOWN ON PLANS.
3. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTONS SHOULD BE BARREL MOUNTED.



TS SHT NO. 17

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DRAWN - VEA	REVISOR -	
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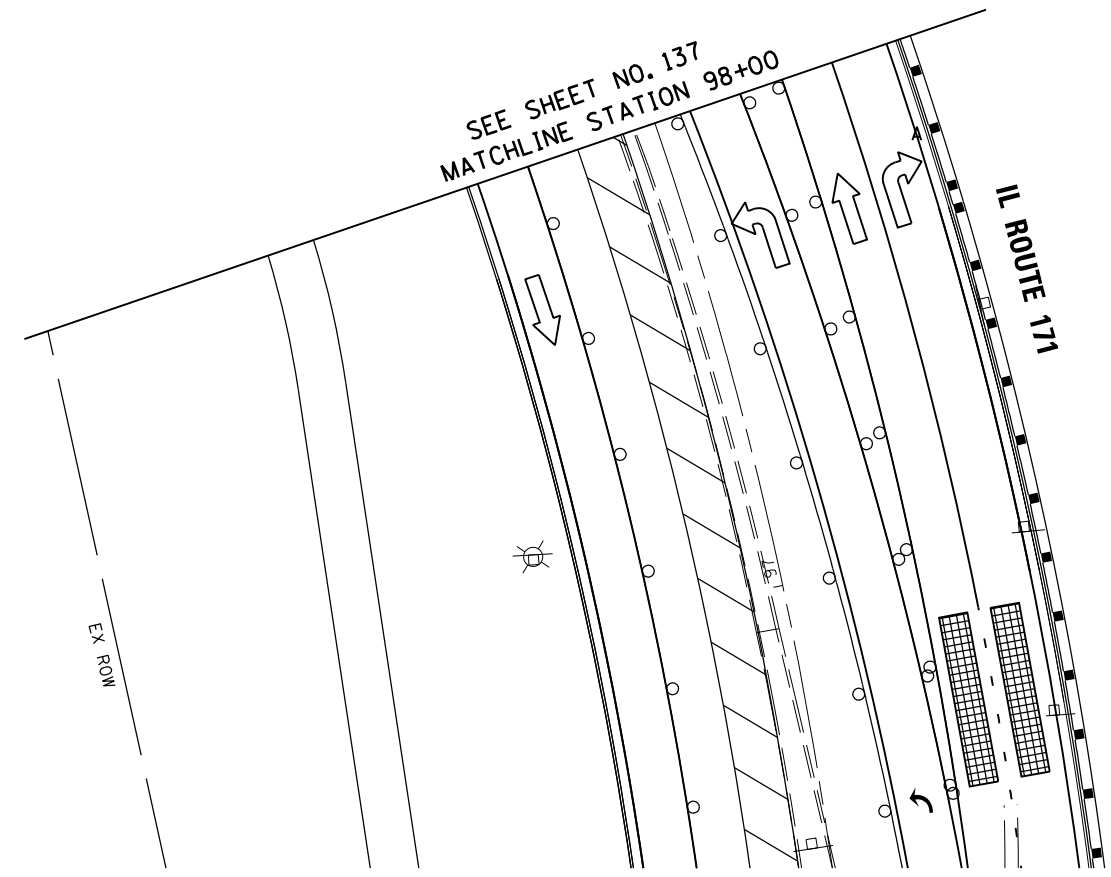
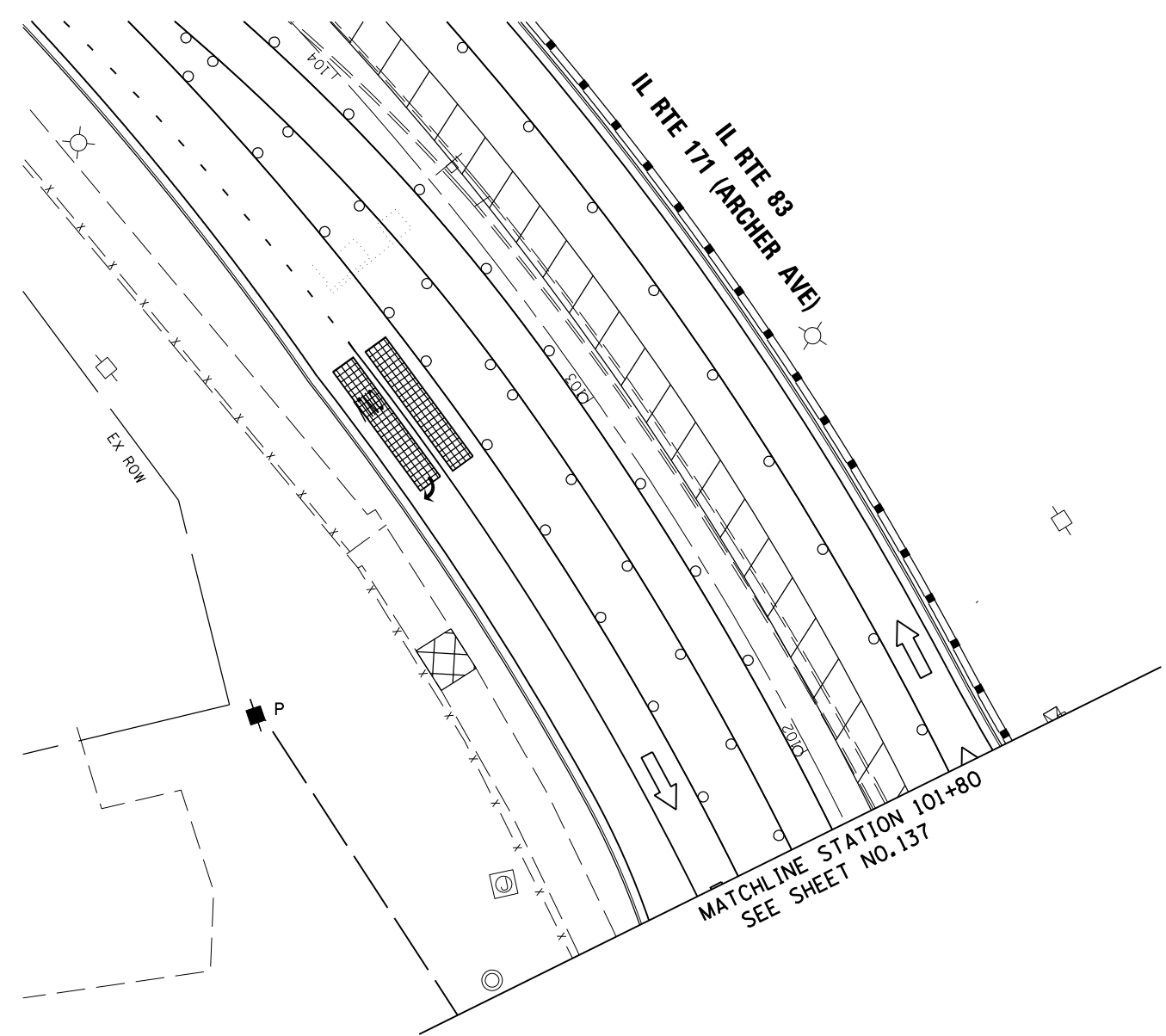
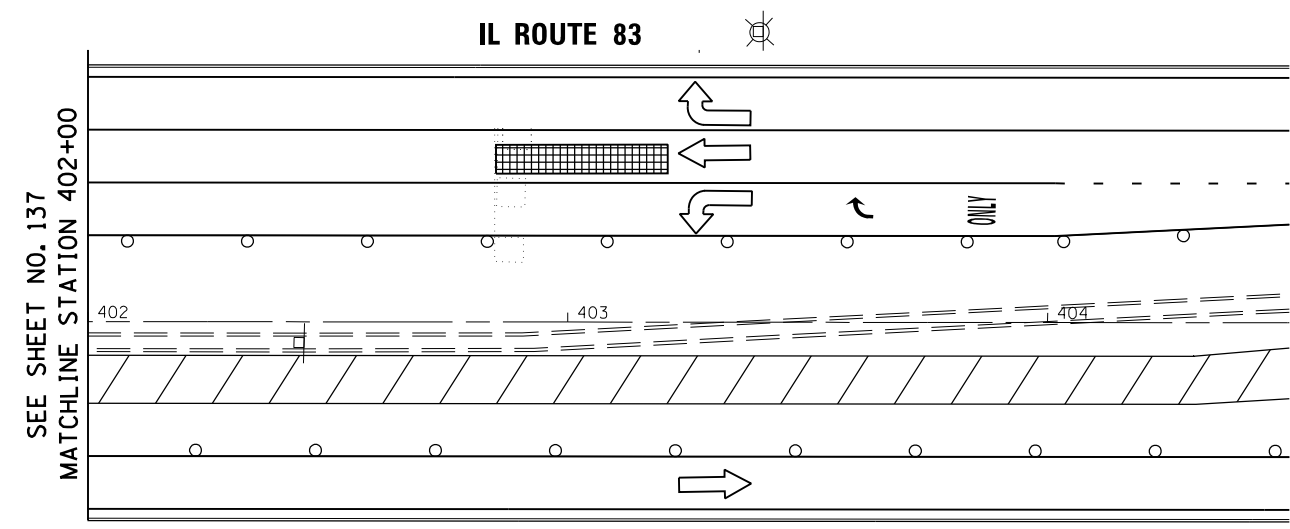
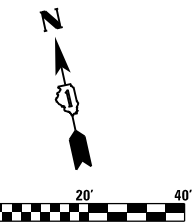
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 3 (SHT 1 OF 2)

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 137
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
EAGLE 6E



TS SHT NO. 18

FILE NAME = D:\60Y25-shr-ts24.dgn



USER NAME = valvarez	DESIGNED - FA	REVISED -
DRAWN - VEA	REVISOR -	REVISED -
CHECKED - MF	REVISOR -	REVISED -
DATE - 6/30/2017	REVISOR -	REVISED -

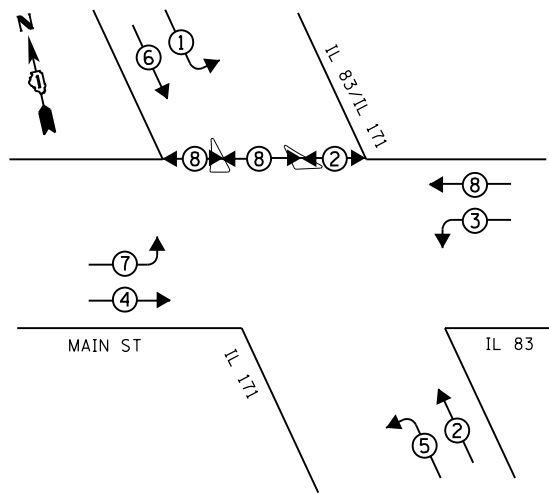
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 3 (SHT 2 OF 2)
SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 138
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
EAGLE 6E

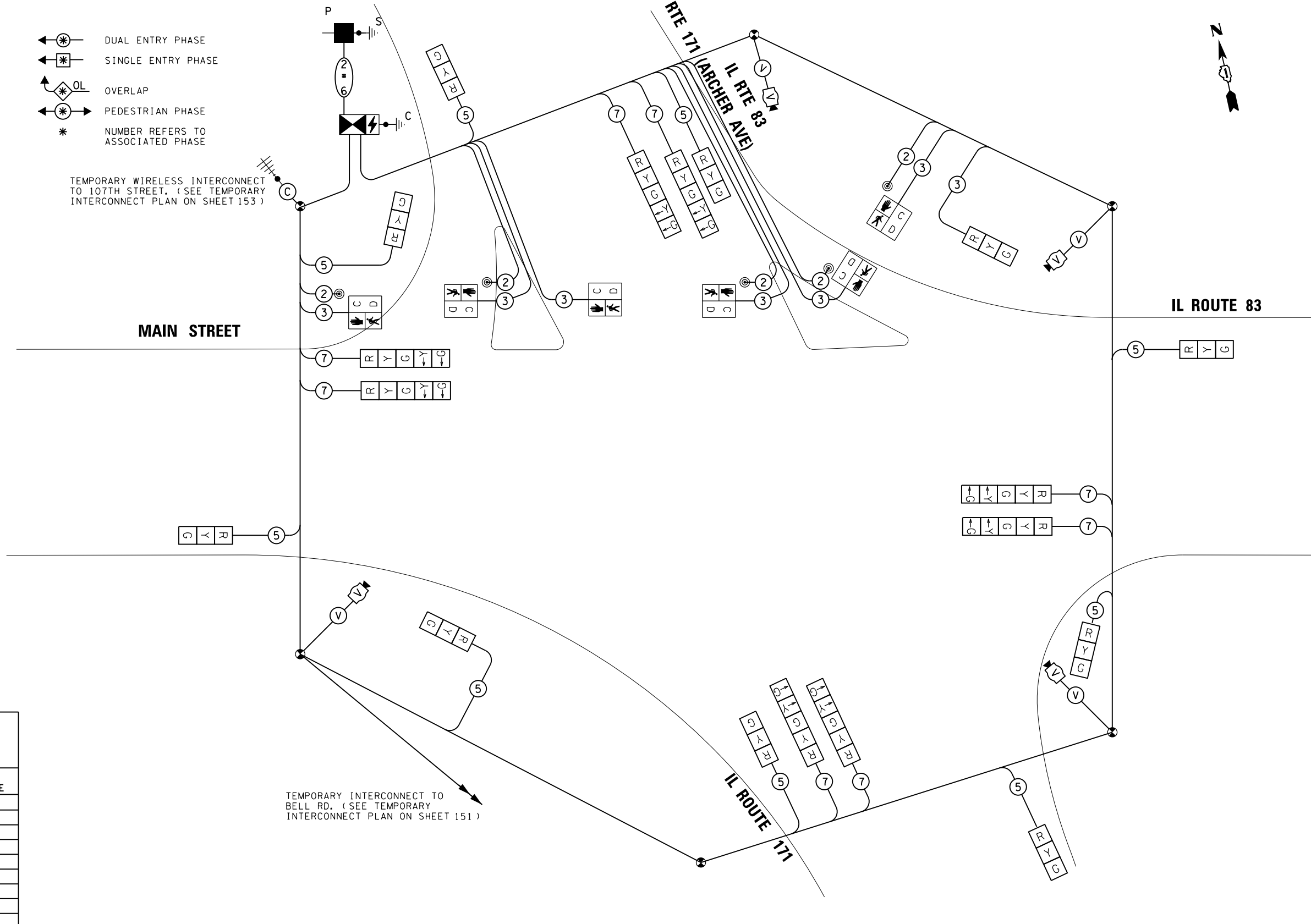
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ◀*▶ DUAL ENTRY PHASE
- ◀* SINGLE ENTRY PHASE
- ◀*OL▶ OVERLAP
- ◀*▶ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY WIRELESS INTERCONNECT TO 107TH STREET. (SEE TEMPORARY INTERCONNECT PLAN ON SHEET 153)



TEMPORARY INTERCONNECT TO BELL RD. (SEE TEMPORARY INTERCONNECT PLAN ON SHEET 151)

TEMPORARY CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99
(YELLOW)	18	20	5	18
(GREEN)	18	12	45	97
ARROW	16	10	10	16
PED SIGNAL	6	20	100	120
VIDEO SYSTEM	1	150	100	150
CONTROLLER	1	100	100	100
UPS	1	25	100	25
TOTAL				625

ENERGY COSTS TO: ILLINOIS DEPT. OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JAMES GLOVER
PHONE: 815-724-5054
COMPANY: COMED

TS SHT NO. 19

FILE NAME = D:\6025-shr-ta25.dgn



USER NAME = VALvarez
DESIGNED - FA
DRAWN - VEA
CHECKED - MF
DATE - 6/30/2017

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL CABLE PLAN, PHASE DIAGRAM - STAGE 3**

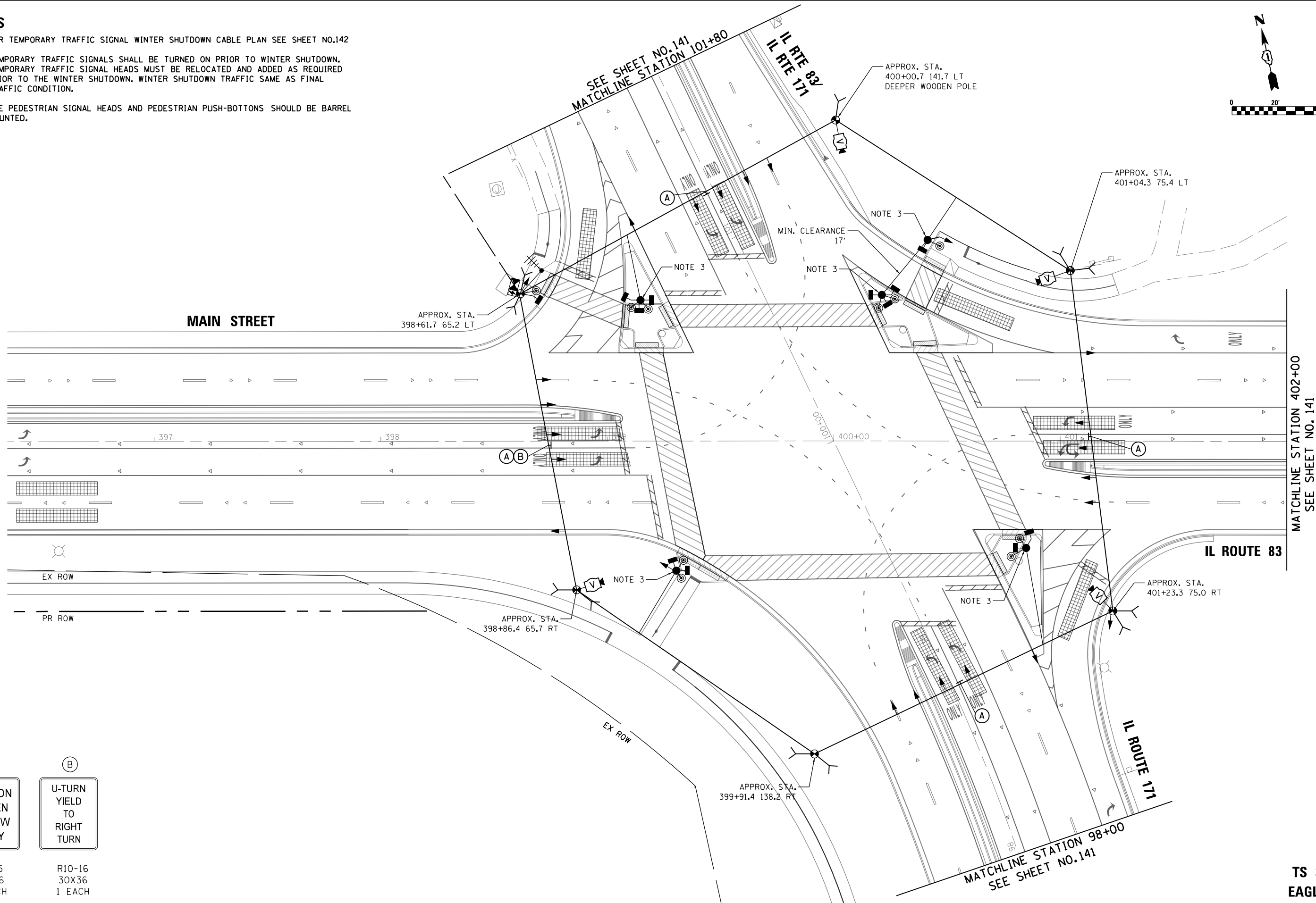
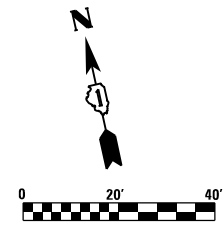
SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	139
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TS 3370
EAGLE 6E**

NOTES

1. FOR TEMPORARY TRAFFIC SIGNAL WINTER SHUTDOWN CABLE PLAN SEE SHEET NO.142
2. TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED ON PRIOR TO WINTER SHUTDOWN. TEMPORARY TRAFFIC SIGNAL HEADS MUST BE RELOCATED AND ADDED AS REQUIRED PRIOR TO THE WINTER SHUTDOWN. WINTER SHUTDOWN TRAFFIC SAME AS FINAL TRAFFIC CONDITION.
3. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTONS SHOULD BE BARREL MOUNTED.



(A)	(B)
LEFT ON GREEN ARROW ONLY	U-TURN YIELD TO RIGHT TURN
R10-5 30X36 4 EACH	R10-16 30X36 1 EACH

TS SHT NO. 20

FILE NAME = D:\60Y25-sh1-ta2.dgn



USER NAME = valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

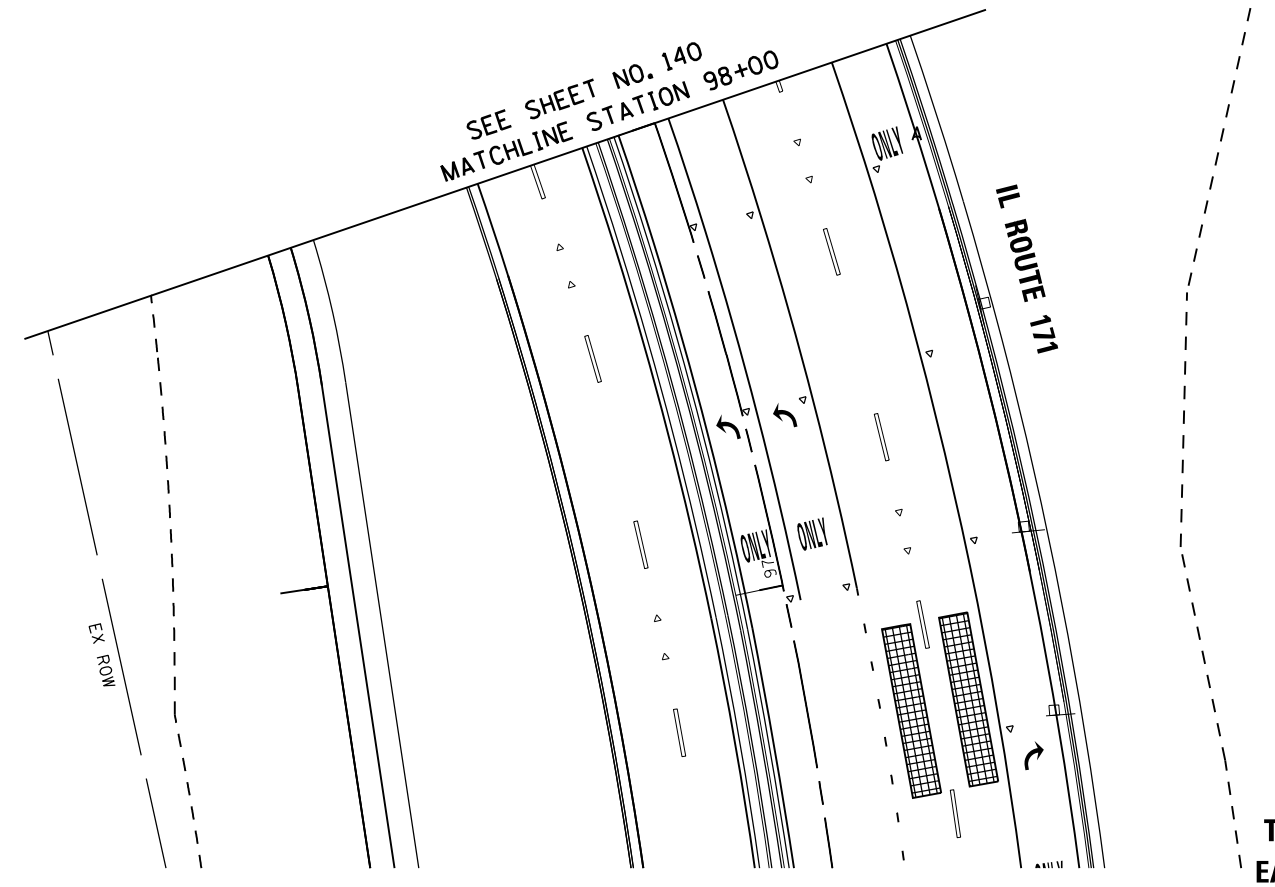
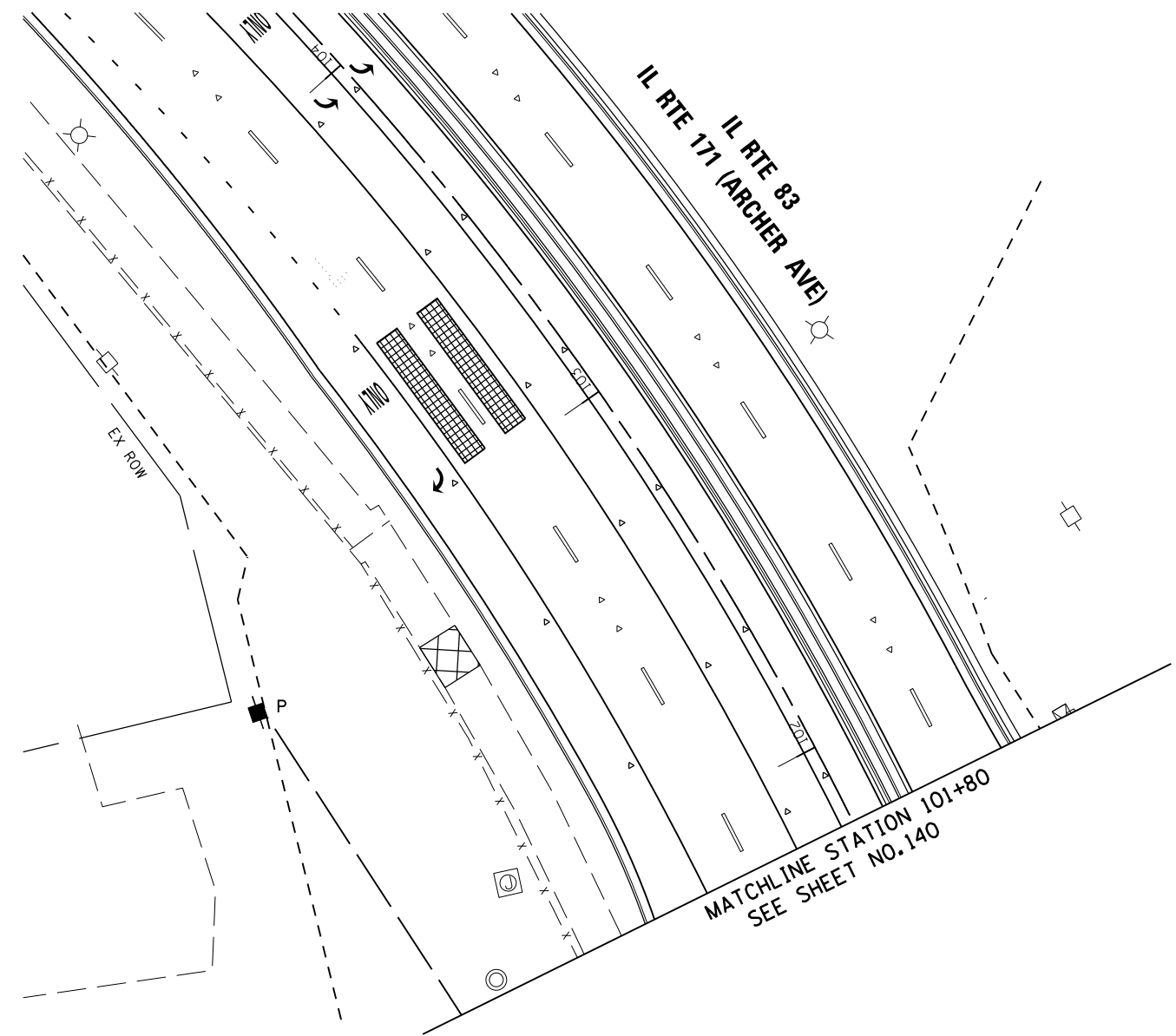
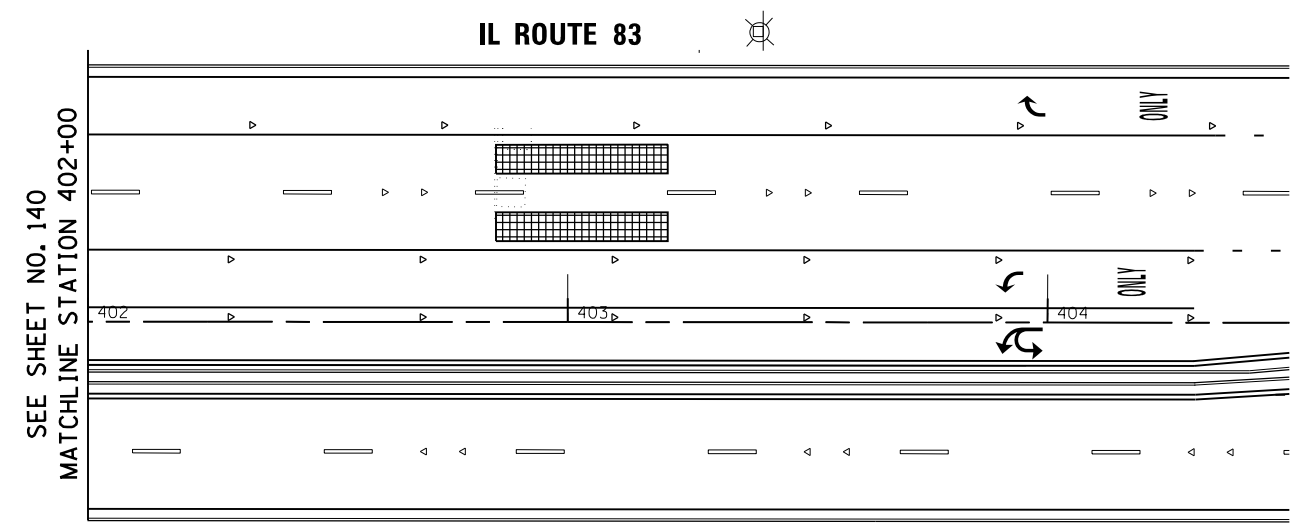
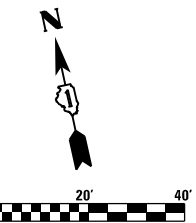
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WINTER (SHT 1 OF 2)**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	140
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TS 3370
EAGLE 6E**



TS SHT NO. 21

FILE NAME = D:\60Y25-sh-t-ts30.dgn



USER NAME = valvarez	DESIGNED - FA	REVISED -
DRAWN - VEA	REVISOR -	REVISED -
CHECKED - MF	REVISOR -	REVISED -
DATE - 6/30/2017	REVISOR -	REVISED -

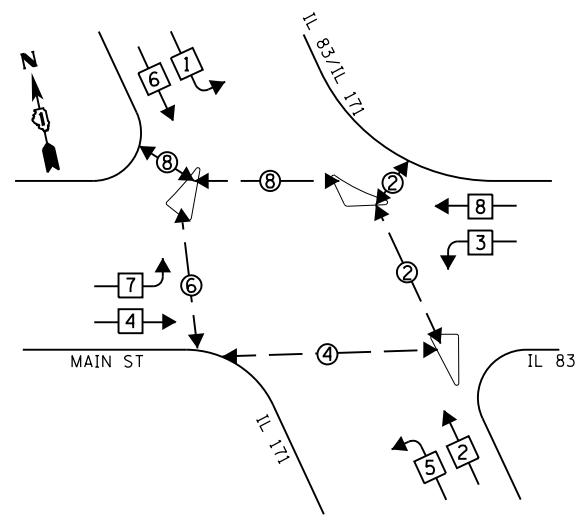
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN STAGE 3 (SHT 2 OF 2)
SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 141
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
EAGLE 6E

TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ⊛ DUAL ENTRY PHASE
- ⊛ SINGLE ENTRY PHASE
- ⊛ OL OVERLAP
- ⊛ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY WIRELESS INTERCONNECT TO 107TH STREET. (SEE TEMPORARY INTERCONNECT PLAN ON SHEET 153)

MAIN STREET

IL RTE 171 (ARCHER AVE)
IL RTE 83

IL ROUTE 83

IL ROUTE 171

TEMPORARY CABLE PLAN
(NOT TO SCALE)

TEMPORARY INTERCONNECT TO BELL RD. (SEE TEMPORARY INTERCONNECT PLAN ON SHEET 151)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	24	11	50	132
(YELLOW)	24	20	5	24
(GREEN)	24	12	45	130
ARROW		10	10	
PED SIGNAL	12	20	100	240
VIDEO SYSTEM	1	150	100	150
CONTROLLER	1	100	100	100
UPS	1	25	100	25
TOTAL				801

ENERGY COSTS TO: ILLINOIS DEPT. OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JAMES GLOVER
PHONE: 815-724-5054
COMPANY: COMED

USER NAME = VALVAREZ	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TEMPORARY TRAFFIC SIGNAL CABLE PLAN, PHASE DIAGRAM - WINTER

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 142
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

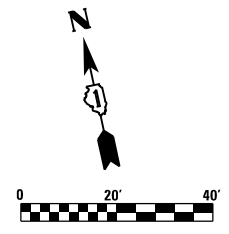
TS 3370
EAGLE 6E

TS SHT NO. 22

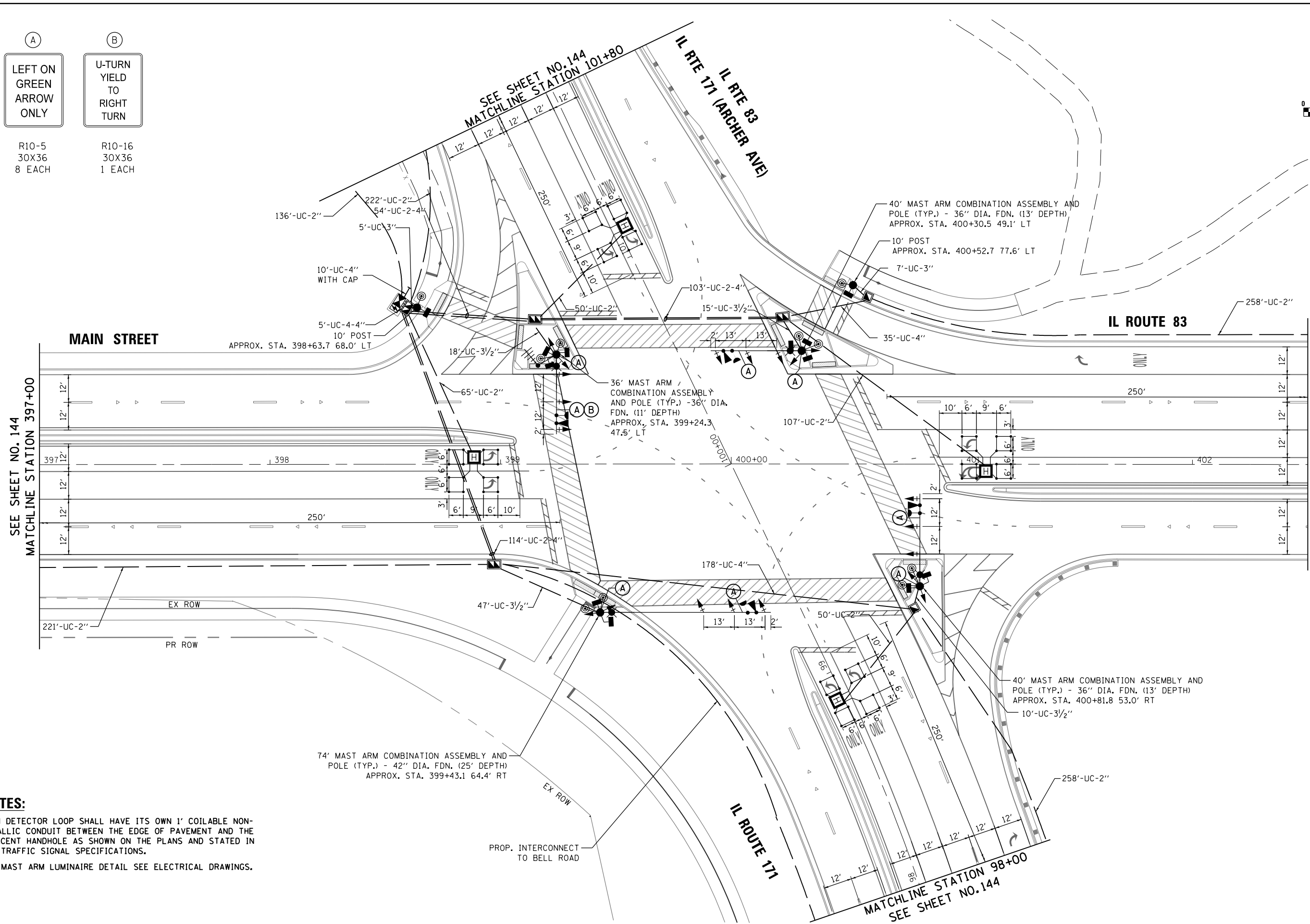
FILE NAME = D:\60Y25-sht-ts31.dgn



Rubinos & Mesa
Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2452



- | | |
|-----------------------------------|--|
| (A) | (B) |
| LEFT ON
GREEN
ARROW
ONLY | U-TURN
YIELD
TO
RIGHT
TURN |
| R10-5
30X36
8 EACH | R10-16
30X36
1 EACH |



NOTES:

EACH DETECTOR LOOP SHALL HAVE ITS OWN 1' COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

FOR MAST ARM LUMINAIRE DETAIL SEE ELECTRICAL DRAWINGS.

TS SHT NO. 23

FILE NAME = D:\60Y25-sh1-t24.dgn



USER NAME = valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

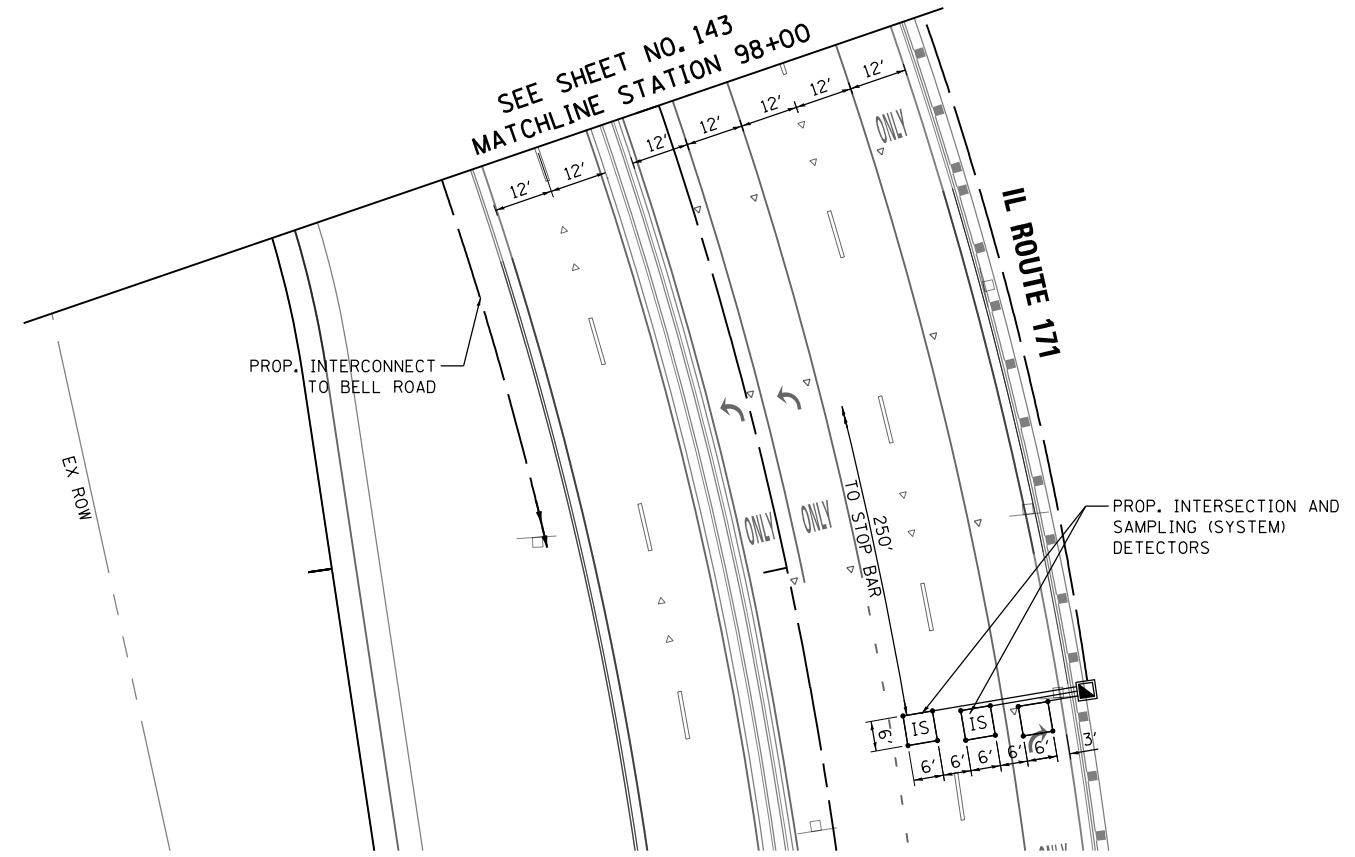
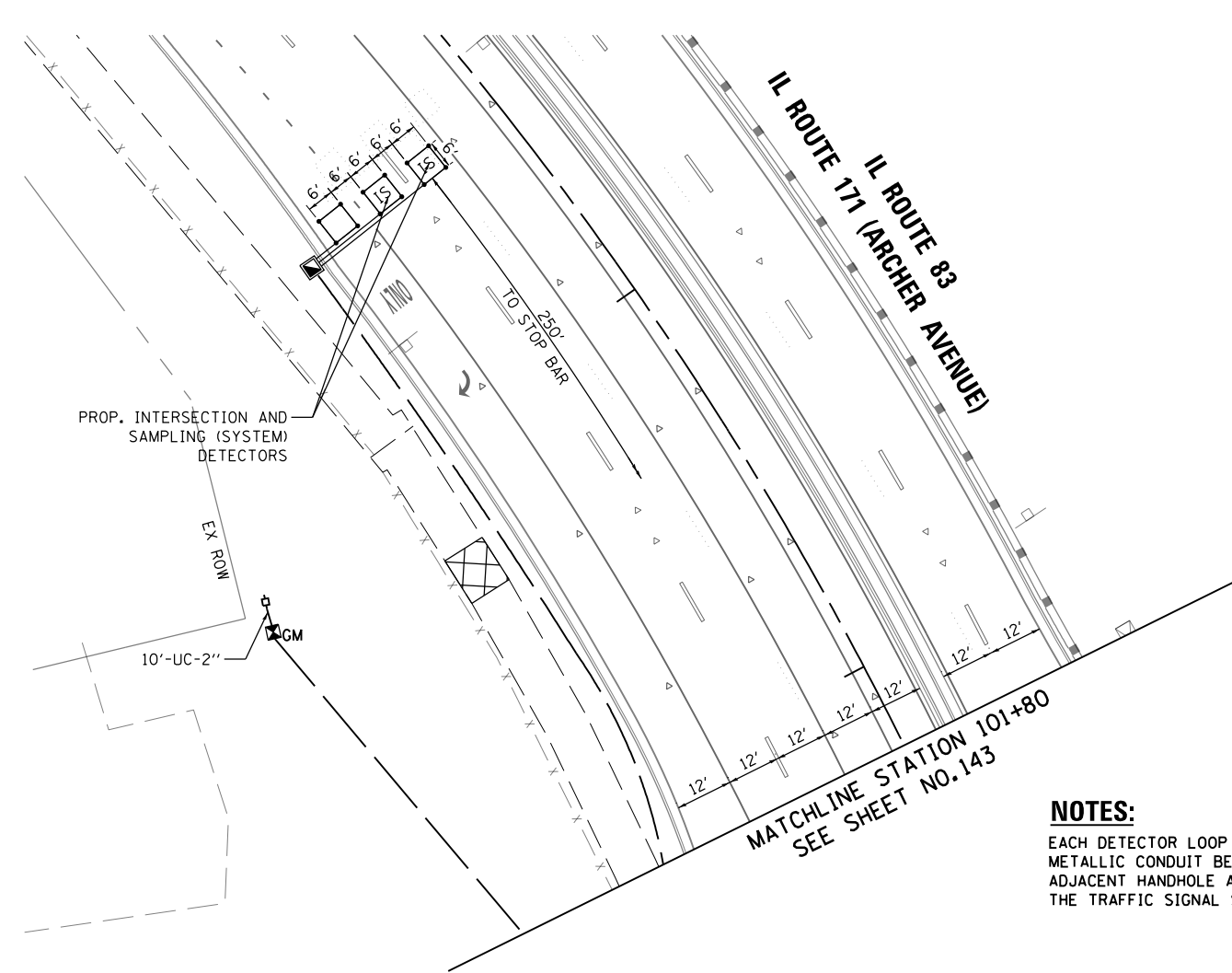
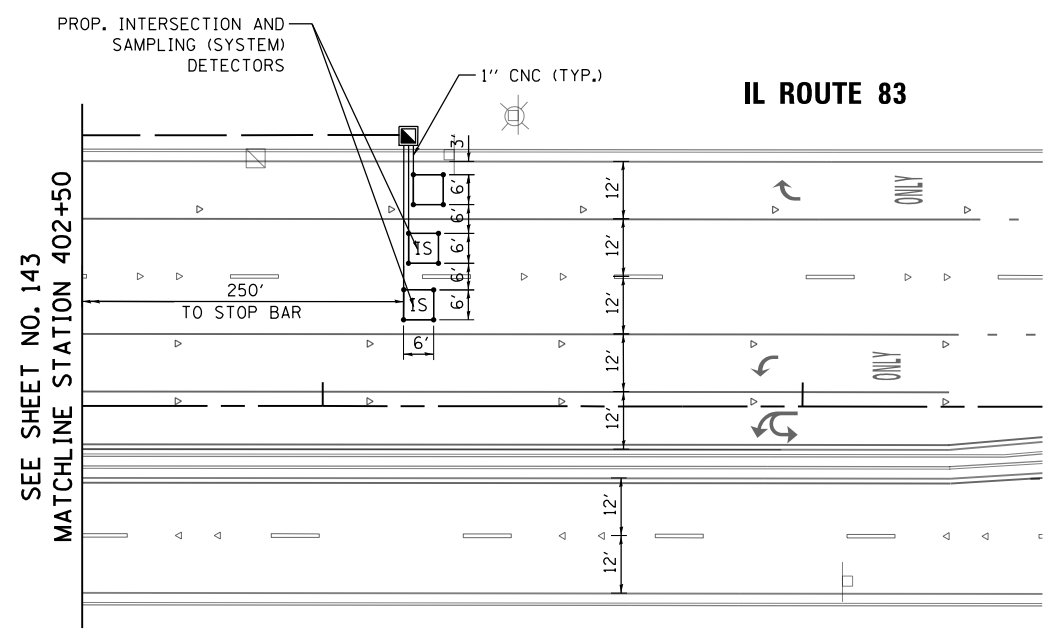
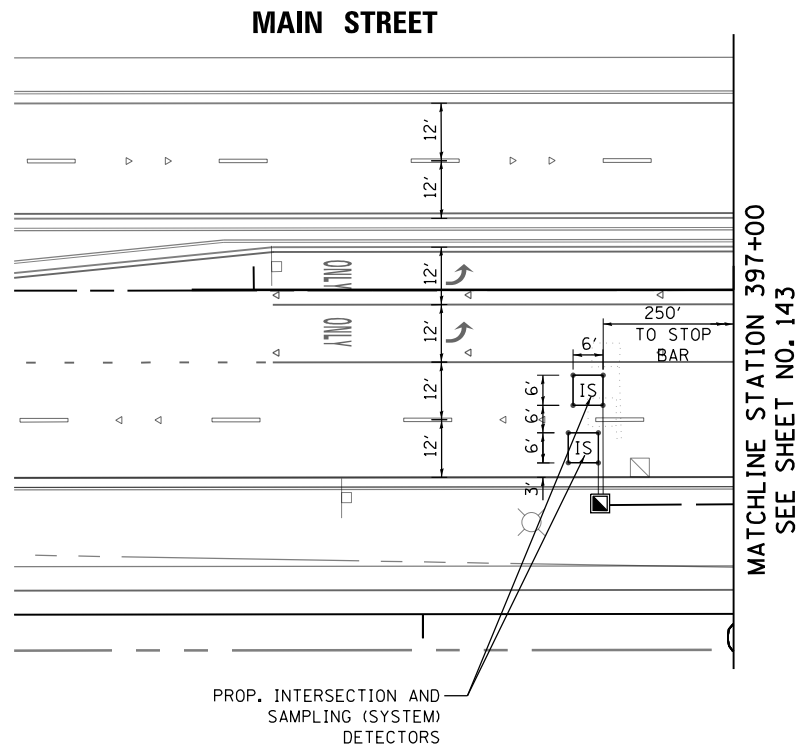
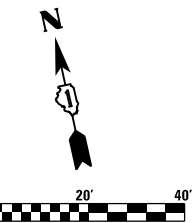
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 1 OF 2)**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 143
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**TS 3370
EAGLE 6E**



NOTES:
 EACH DETECTOR LOOP SHALL HAVE ITS OWN 1' COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS SHT NO. 24



USER NAME = valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

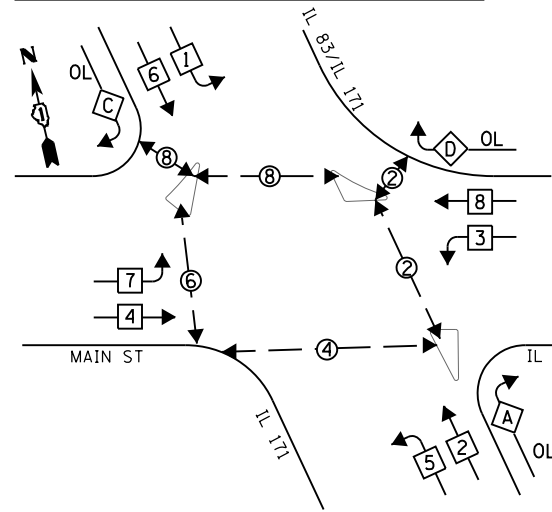
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
 TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 2)
 SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 144
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
 EAGLE 6E

PROPOSED CONTROLLER SEQUENCE



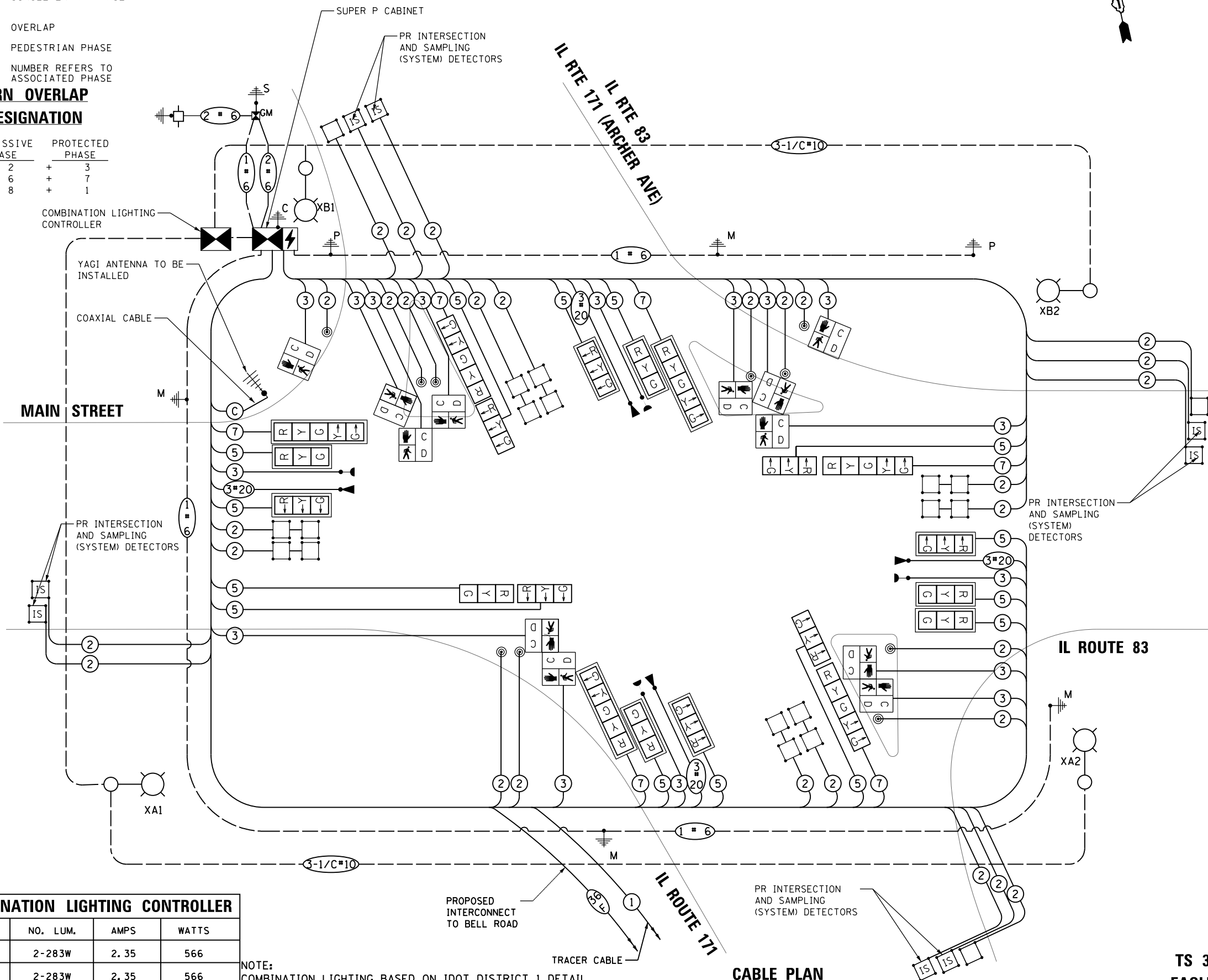
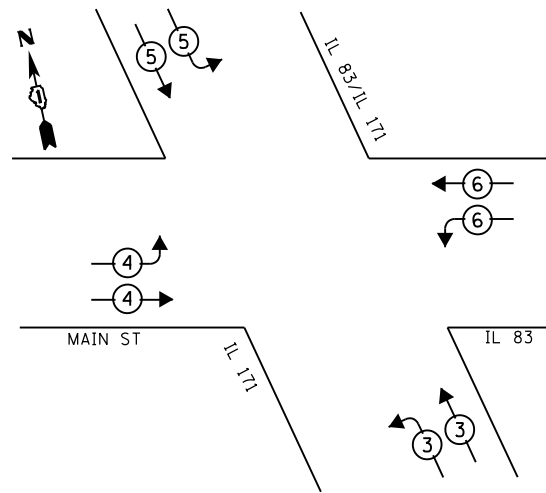
LEGEND

- ⊛ DUAL ENTRY PHASE
- ⊛ SINGLE ENTRY PHASE
- ⊛ OL OVERLAP
- ⊛ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110
(YELLOW)	20	20	5	20
(GREEN)	20	12	45	108
ARROW	12	10	10	12
PED. SIGNAL	12	25	100	300
CONTROLLER	1	100	100	100
UPS	1	25	100	25
TOTAL				675

COMBINATION LIGHTING CONTROLLER

CIRCUIT	NO. LUM.	AMPS	WATTS
A	2-283W	2.35	566
B	2-283W	2.35	566
TOTAL LOAD		1.132KVA	AT 240V

NOTE: COMBINATION LIGHTING BASED ON IDOT DISTRICT 1 DETAIL BE-240 COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

CABLE PLAN (NOT TO SCALE)

TS SHT NO. 25



USER NAME = VALVAREZ
 DESIGNED - FA
 DRAWN - VEA
 CHECKED - MF
 DATE - 6/30/2017

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE) CABLE PLAN, PHASE DESIGNATION DIAGRAM, PREEMPTION SEQUENCE

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

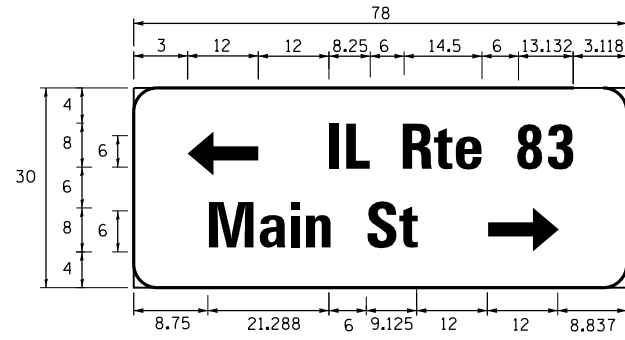
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	145

CONTRACT NO. 60Y25
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

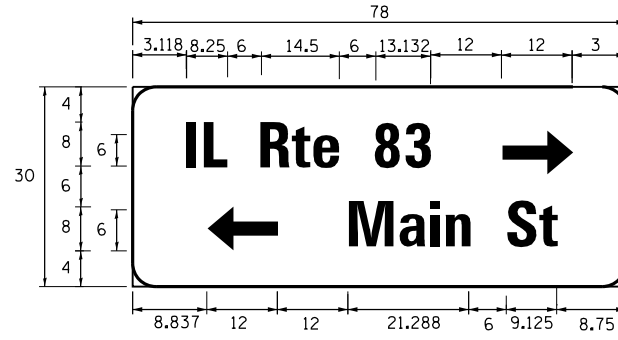
TS 3370 EAGLE 6E

SIGN PANEL - TYPE 2

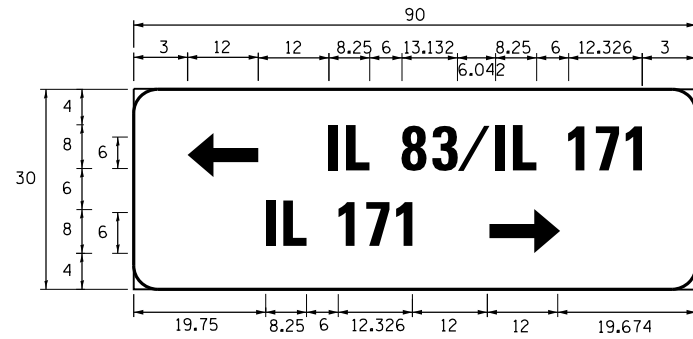
SCHEDULE OF QUANTITIES



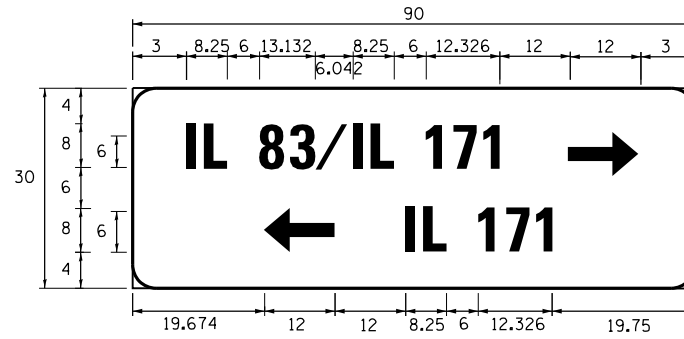
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	16.25	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	16.25	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	18.75	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	18.75	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAIL

ITEM DESCRIPTION	UNITS	MAIN ST QTY.
SIGN PANEL - TYPE 1	SQ FT	67.5
SIGN PANEL - TYPE 2	SQ FT	70
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1367
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	12
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	90
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	785
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	4
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10	FOOT	1134
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2150
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3665
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3832
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1455
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6708
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	149
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1658
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	25
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	12
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1237
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	10
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1145
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	4
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO LEMONT FIRE DISTRICT

TS SHT NO. 26

FILE NAME = D:\60\25-sh-t-ts7.dgn



USER NAME = Valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 2.0000' / 1" =	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

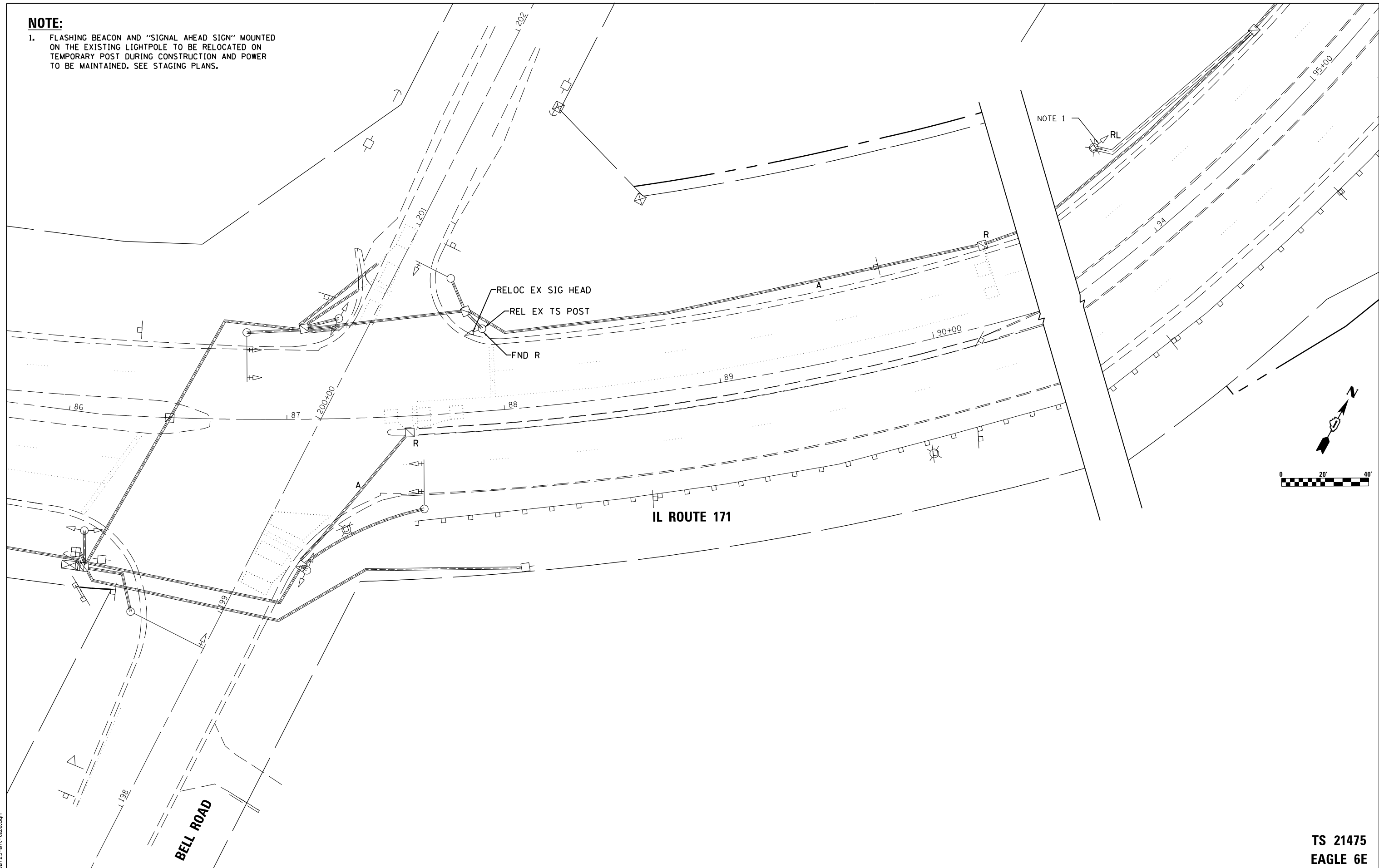
IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)	
MAST ARM MOUNTED STREET NAME SIGNS & SCHEDULE OF QUANTITIES	
SCALE: NTS	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 146
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 3370
EAGLE 6E

NOTE:

1. FLASHING BEACON AND "SIGNAL AHEAD SIGN" MOUNTED ON THE EXISTING LIGHTPOLE TO BE RELOCATED ON TEMPORARY POST DURING CONSTRUCTION AND POWER TO BE MAINTAINED. SEE STAGING PLANS.



TS SHT NO. 27

FILE NAME = D:\60Y25-shr-t26.dgn

RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2452

USER NAME = valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - VEA	REVISED -
PLOT DATE = 11/30/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BELL ROAD AT IL ROUTE 171 (ARCHER AVE)
EXISTING TRAFFIC SIGNAL REMOVAL PLAN

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	147
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 21475
EAGLE 6E

TS SHT NO. 28

FILE NAME = D:\60\25-shr-ta27.dgn

RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2482

USER NAME = VALVAREZ	DESIGNED - FA	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - VEA	REVISED -
PLOT DATE = 11/30/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

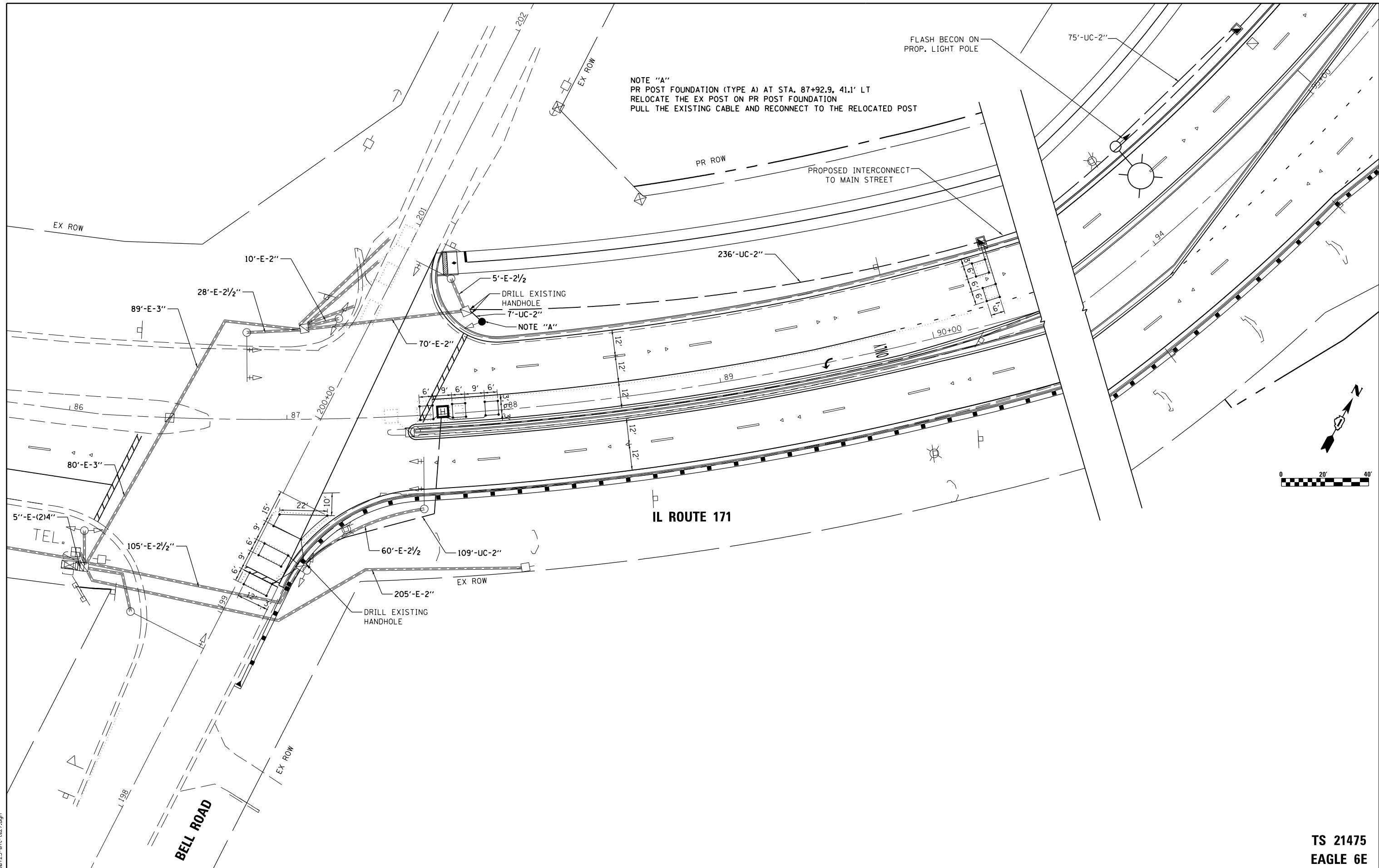
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BELL ROAD AT IL ROUTE 171 (ARCHER AVE)
TRAFFIC SIGNAL INSTALLATION PLAN

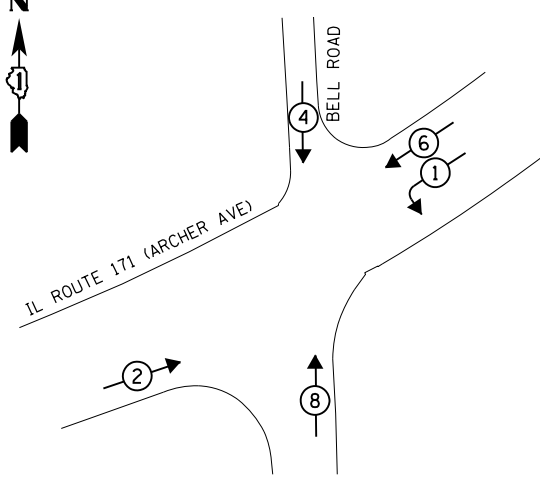
SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	148
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TS 21475
EAGLE 6E

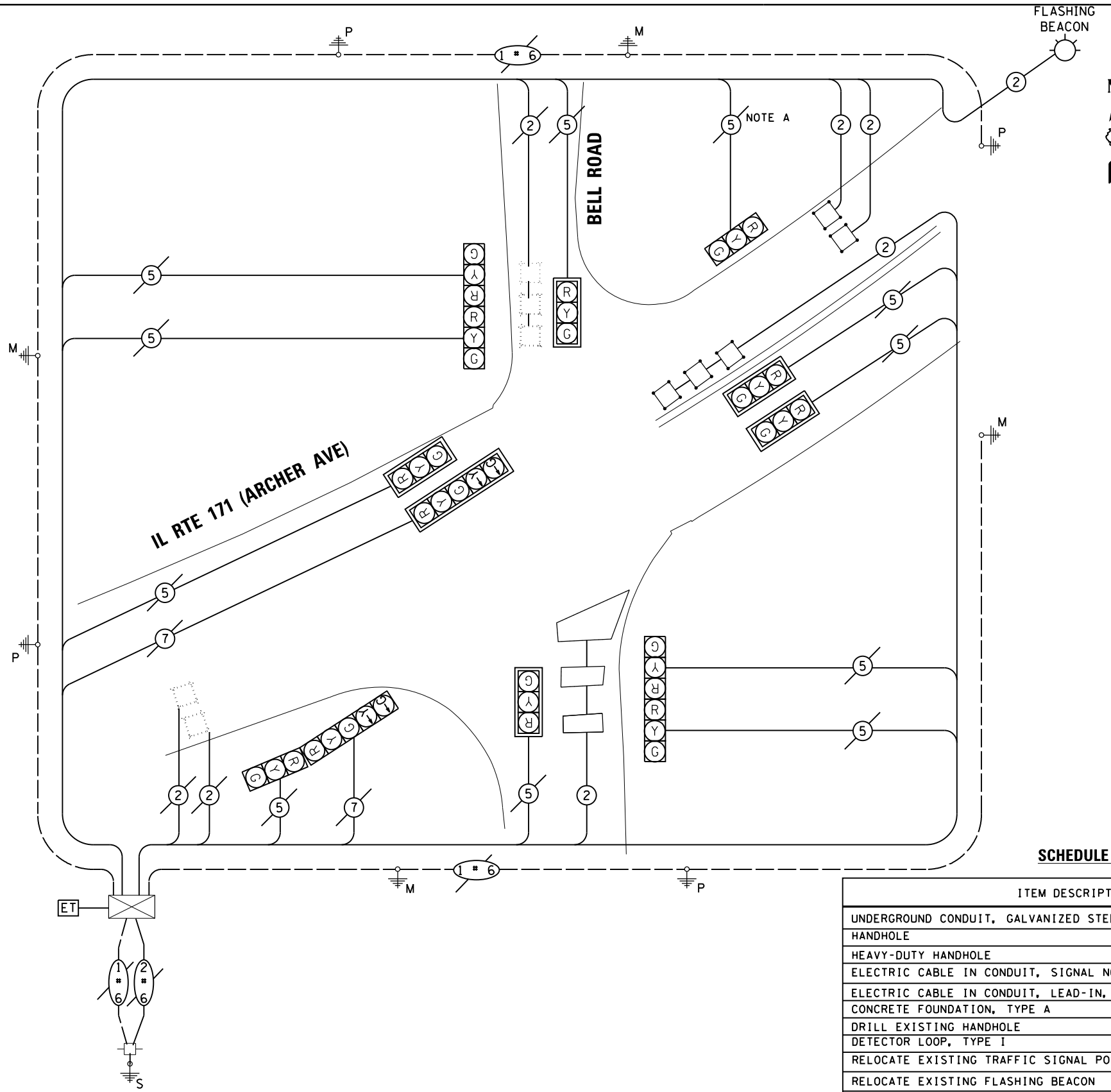


CONTROLLER SEQUENCE



LEGEND

- ⊛ DUAL ENTRY PHASE
- ⊞ SINGLE ENTRY PHASE
- ⊞ OL OVERLAP
- ⊞ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE



NOTE A
REMOVE AND REINSTALL ELECTRIC
CABLE FROM CONDUIT

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	427
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	100
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,422
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	2
DETECTOR LOOP, TYPE I	FOOT	403
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
RELOCATE EXISTING FLASHING BEACON	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	16

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.50
(YELLOW)	13	20	5	13.00
(GREEN)	13	12	45	70.20
ARROW	4	10	10	4.00
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.00
UPS	1	25	100	25.00
TOTAL				283.70

ENERGY COSTS TO: ILLINOIS DEPT. OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JAMES GLOVER
PHONE: 815-724-5054
COMPANY: COMED
ACCOUNT NUMBER: 1108356002

TS SHT NO. 29



USER NAME = VALVAREZ	DESIGNED - FA	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN - VEA	REVISED -
PLOT DATE = 11/30/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

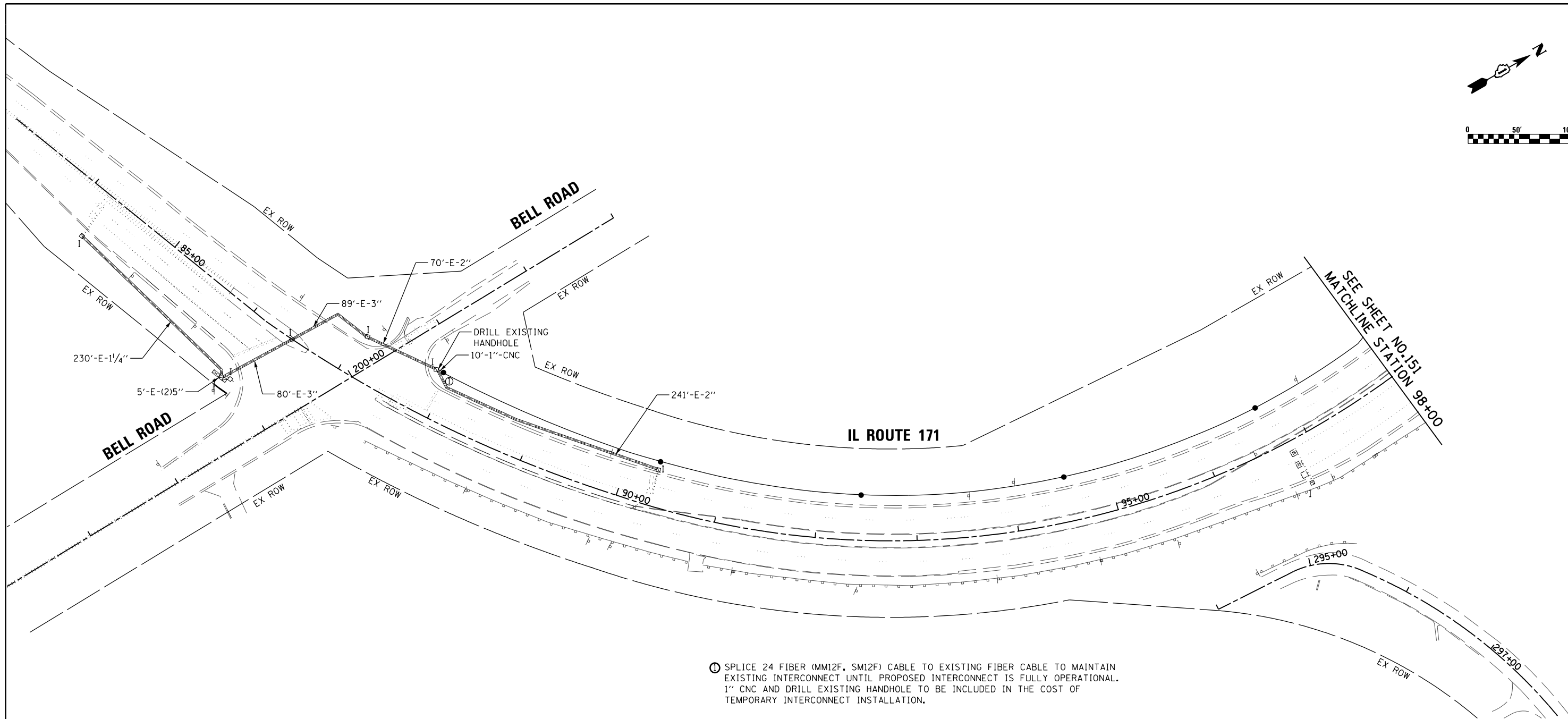
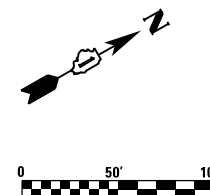
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BELL ROAD AT IL ROUTE 171 (ARCHER AVE)
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND QUANTITIES

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	149
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y25	

TS 21475
EAGLE 6E



① SPLICE 24 FIBER (MM12F, SM12F) CABLE TO EXISTING FIBER CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL. 1" CNC AND DRILL EXISTING HANDHOLE TO BE INCLUDED IN THE COST OF TEMPORARY INTERCONNECT INSTALLATION.

TS SHT NO. 30

FILE NAME = D:\60Y25-sh1-ts8.dgn



USER NAME = Valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 100.0000' / 1" =	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 4)

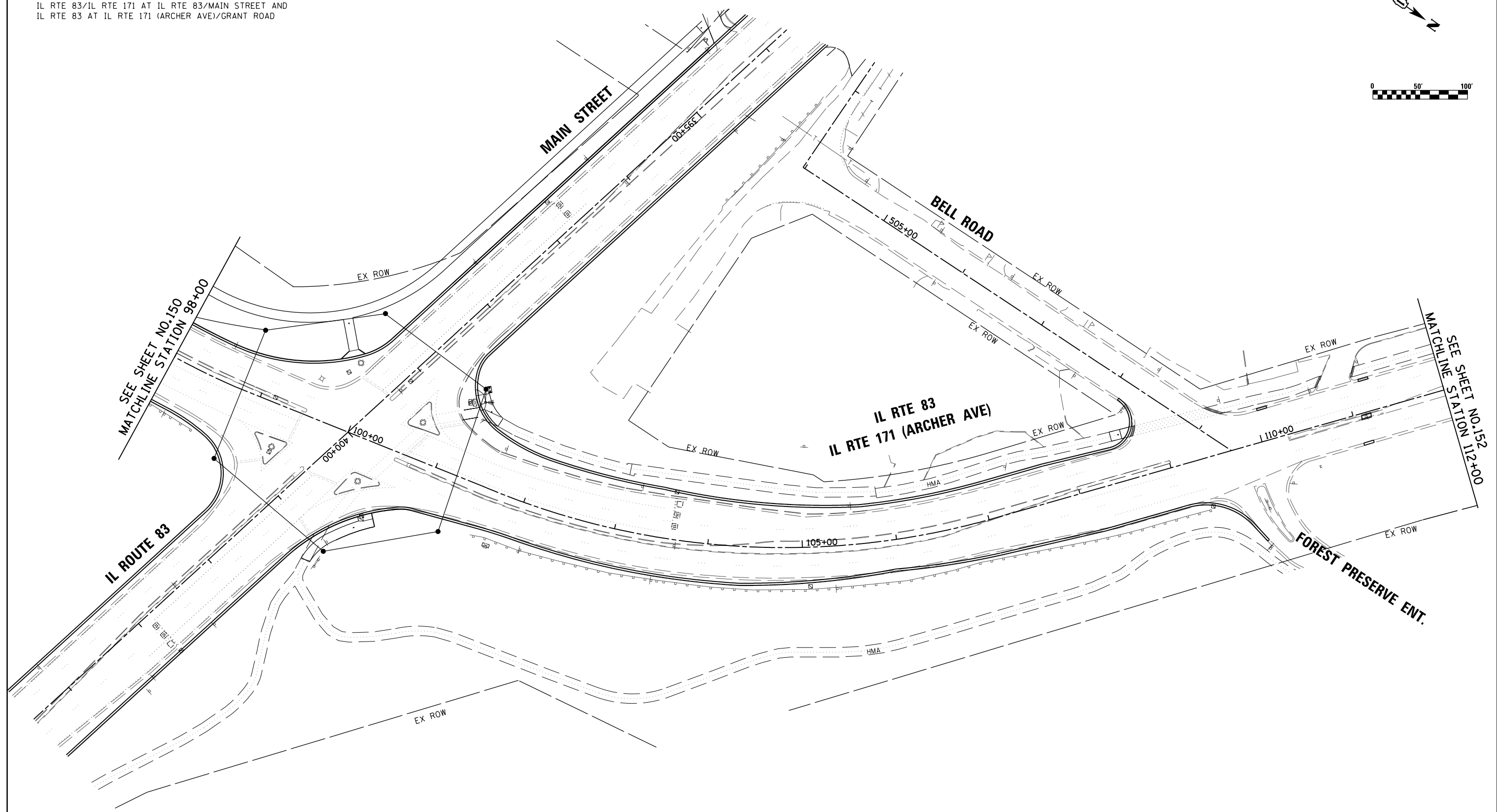
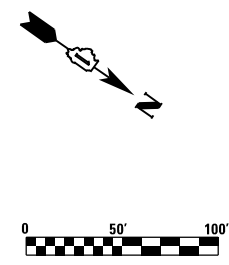
SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. 84+00.00 TO STA. 98+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	150
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EAGLE 6E

NOTE:

MAINTAIN EXISTING WIRELESS INTERCONNECT BETWEEN
 IL RTE 83/IL RTE 171 AT IL RTE 83/MAIN STREET AND
 IL RTE 83 AT IL RTE 171 (ARCHER AVE)/GRANT ROAD



SEE SHEET NO.150
 MATCHLINE STATION 98+00

SEE SHEET NO.152
 MATCHLINE STATION 112+00

TS SHT NO. 31
 FILE NAME = 0160Y25-sh1-ts9.dgn



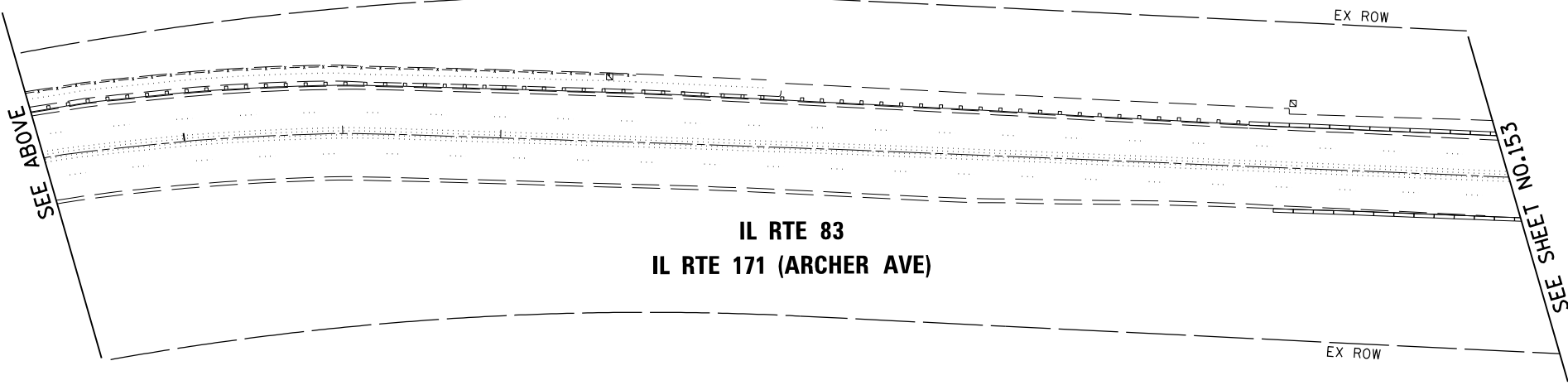
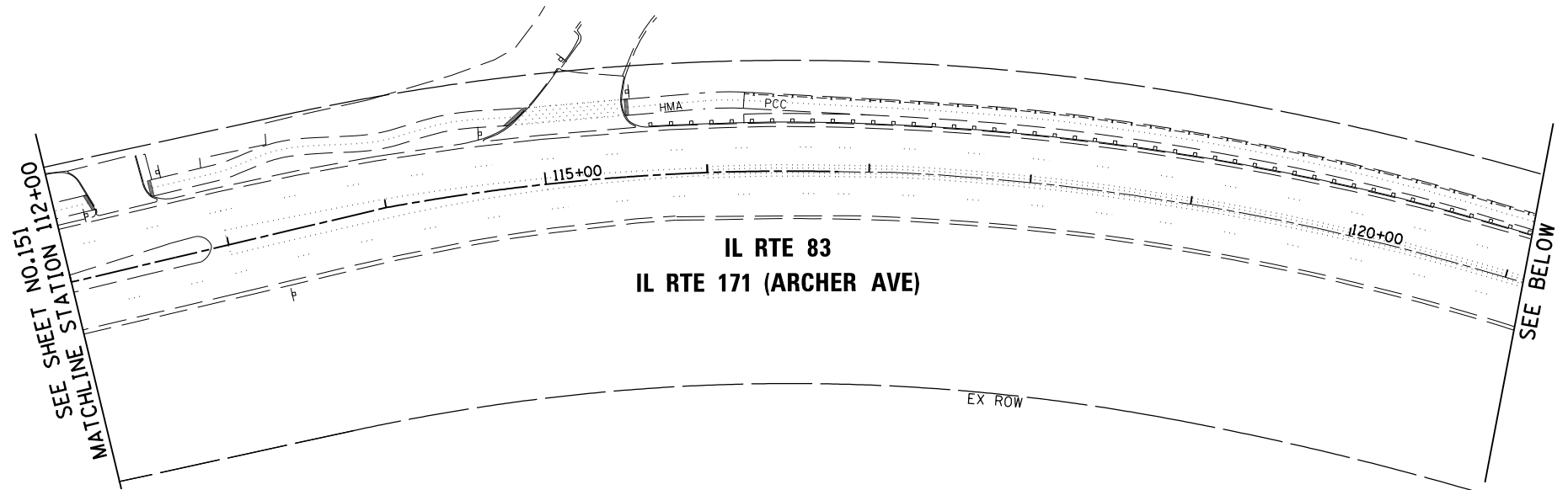
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DRAWN - VEA	REVISIONS -	
CHECKED - MF	REVISIONS -	
DATE - 6/30/2017	REVISIONS -	
PLOT SCALE = 100.0000' / 1" =		
PLOT DATE = 8/19/2017		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
 TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 4)
 SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 98+00.00 TO STA. 112+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	151
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EAGLE 6E



TS SHT NO. 32
 FILE NAME = D:\60Y25-shr-t-1310.dgn



USER NAME = VALVAREZ	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

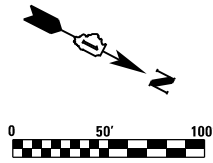
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
 TEMPORARY INTERCONNECT PLAN (SHEET 3 OF 4)

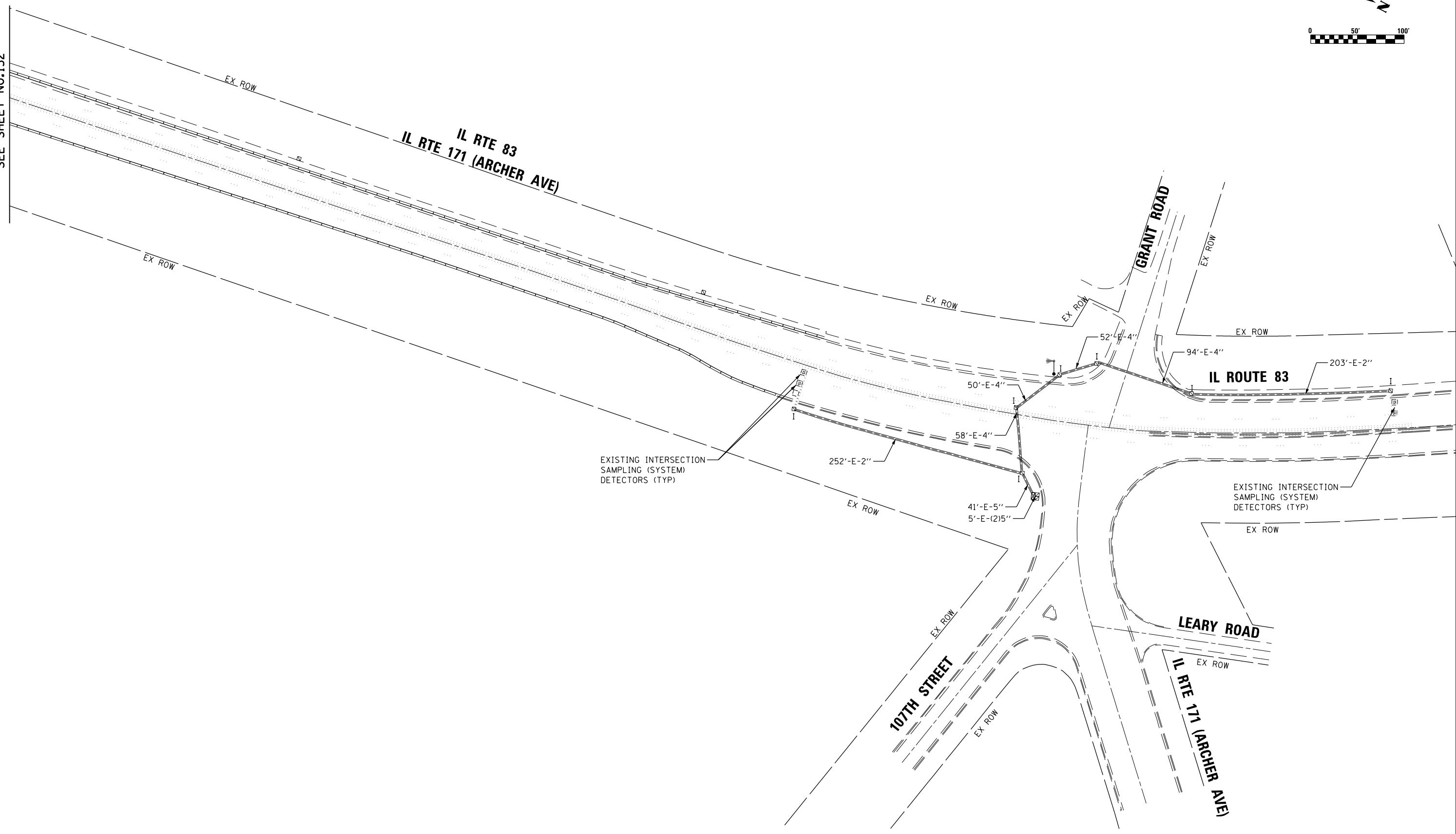
SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 112+00.00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	152
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EAGLE 6E



SEE SHEET NO.152



TS SHT NO. 33

FILE NAME = 0160Y25-shr-tot1.dgn



USER NAME = Valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
TEMPORARY INTERCONNECT PLAN (SHEET 4 OF 4)**

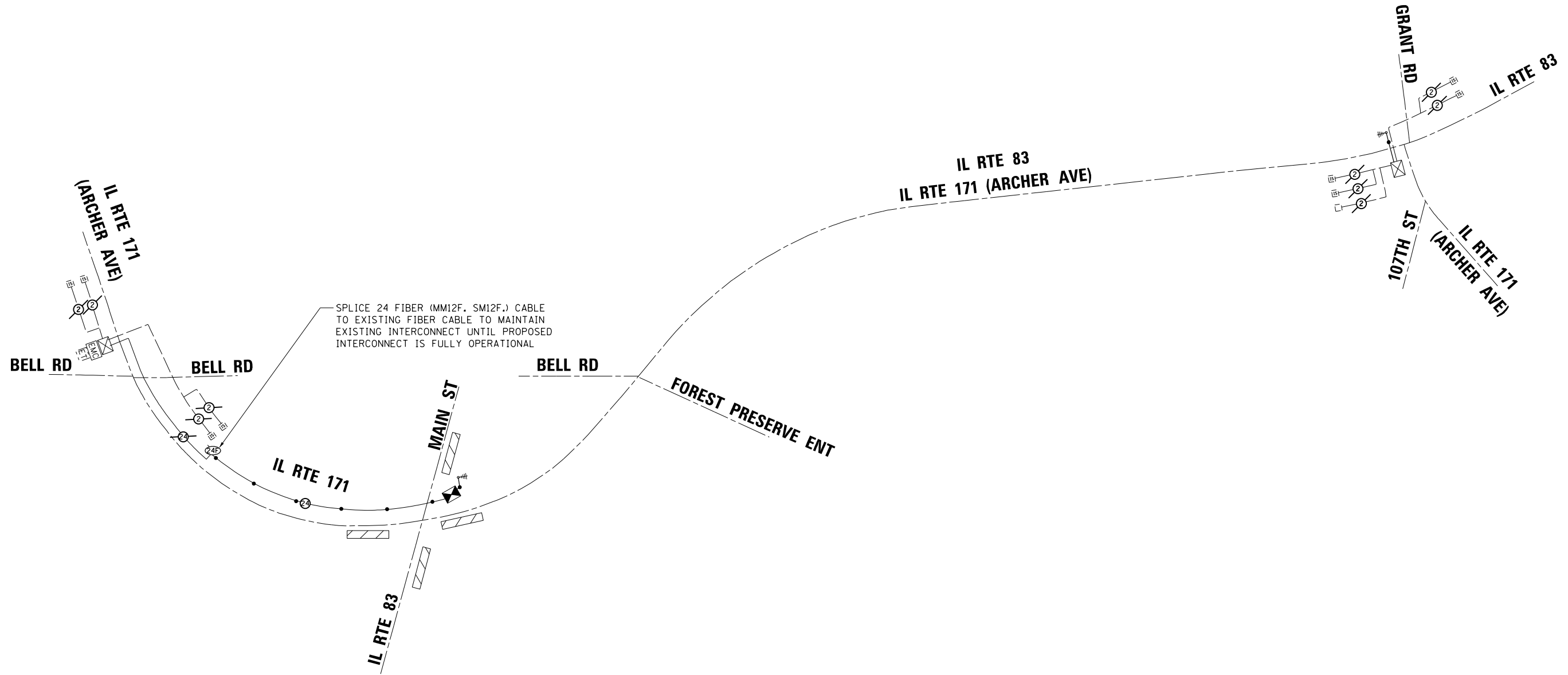
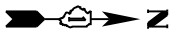
SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 153
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EAGLE 6E

NOTE:

MAINTAIN EXISTING WIRELESS INTERCONNECT BETWEEN
 IL RTE 83/IL RTE 171 AT IL RTE 83/MAIN STREET AND
 IL RTE 83 AT IL RTE 171 (ARCHER AVE)/GRANT ROAD



TS SHT NO. 34

FILE NAME = 0166025-sh-t-tsi2.dgn



USER NAME = valvarez	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

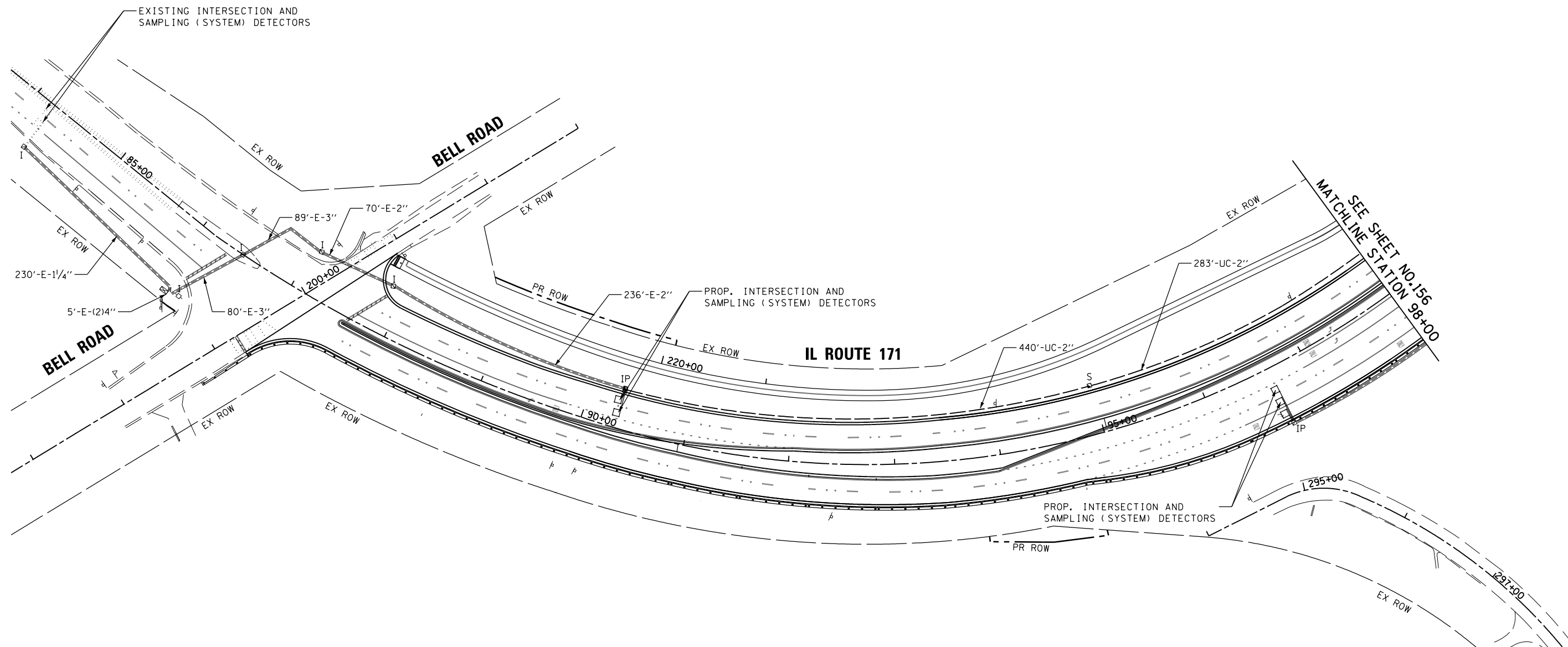
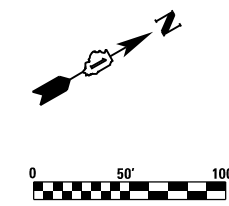
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
 TEMPORARY INTERCONNECT SCHEMATIC

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

EAGLE 6E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	154
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TS SHT NO. 35

FILE NAME = D:\60225-shr-tol3.dgn



USER NAME = Valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 100.0000' / 1" =	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

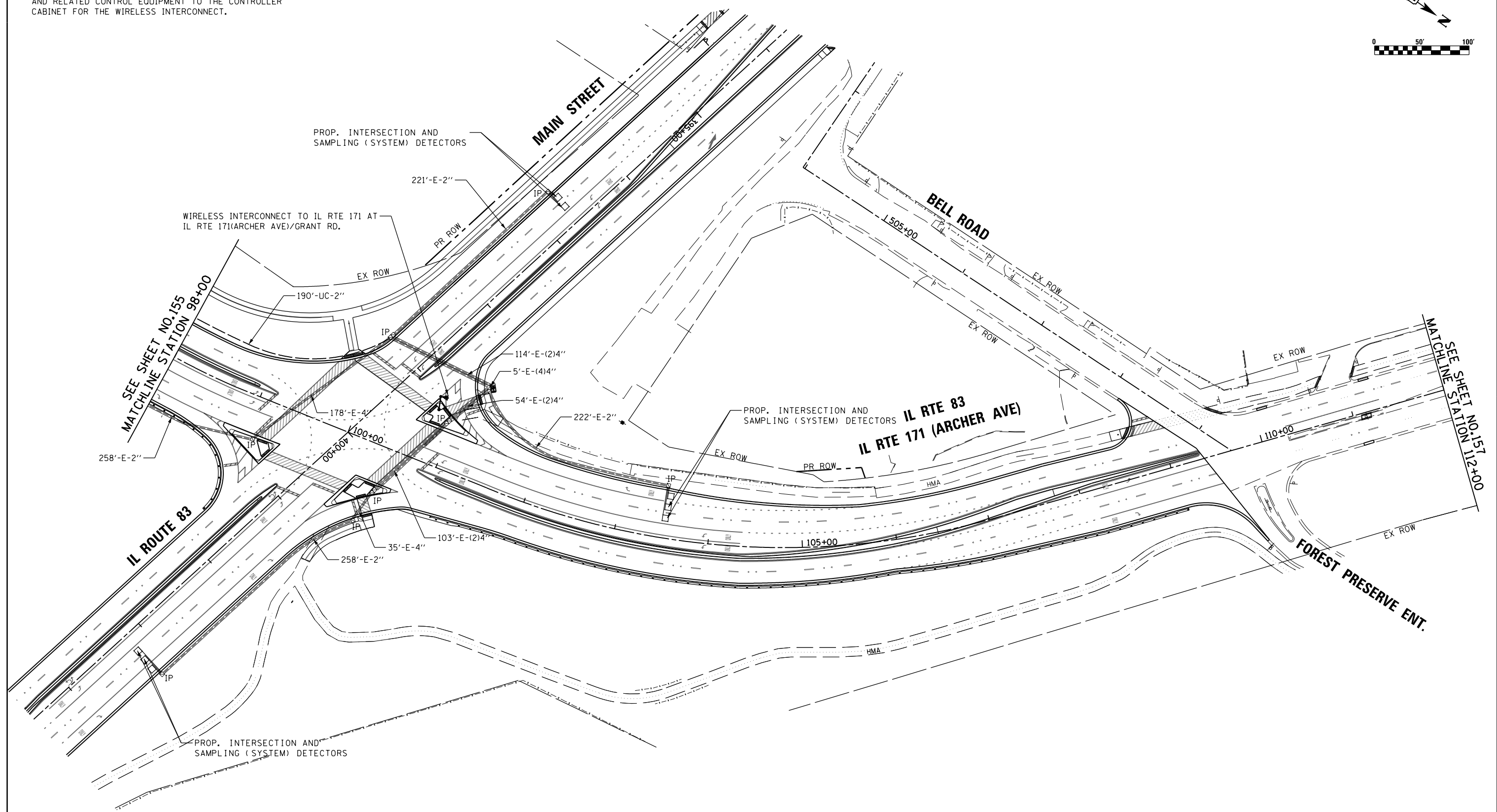
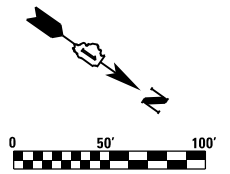
IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
PROPOSED INTERCONNECT PLAN (SHEET 1 OF 4)

SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. 84+00.00 TO STA. 98+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	155
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EAGLE 6E

NOTE:
 INSTALL NEW COAXIAL CABLE, NEW RADIO ANTENNA
 AND RELATED CONTROL EQUIPMENT TO THE CONTROLLER
 CABINET FOR THE WIRELESS INTERCONNECT.



TS SHT NO. 36

FILE NAME = D:\60\25-shr-tol.dgn



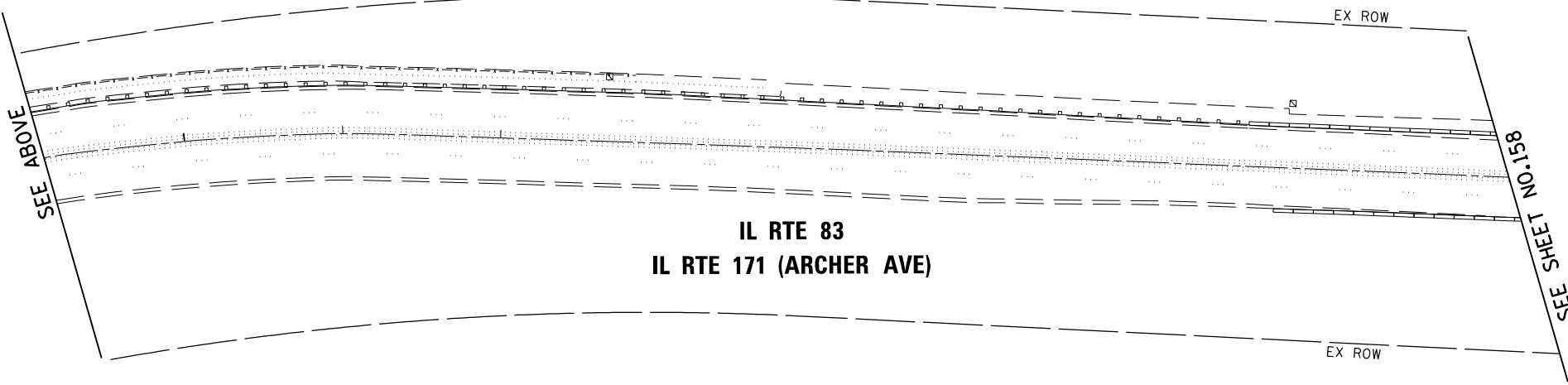
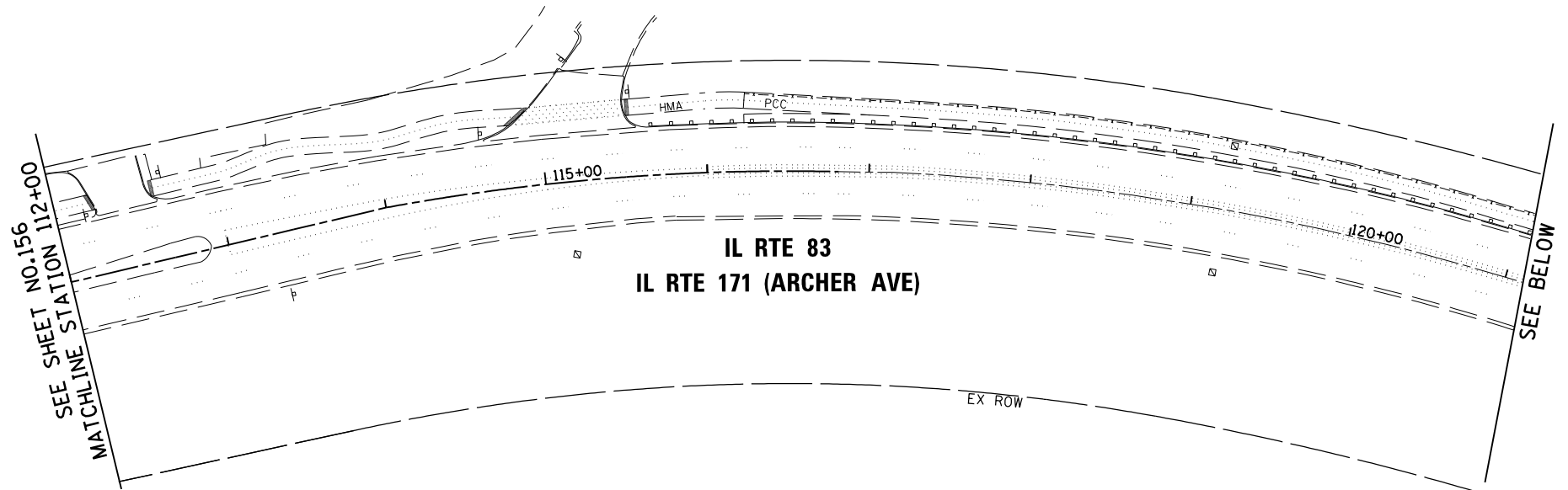
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	DRAWN - VEA	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
 PROPOSED INTERCONNECT PLAN (SHEET 2 OF 4)
 SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 99+00.00 TO STA. 115+00.00

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 156
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EAGLE 6E



TS SHT NO. 37

FILE NAME = D:\60Y25-ah-t-15.dgn



USER NAME = VALVAREZ	DESIGNED - FA	REVISED -
	DRAWN - VEA	REVISED -
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PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

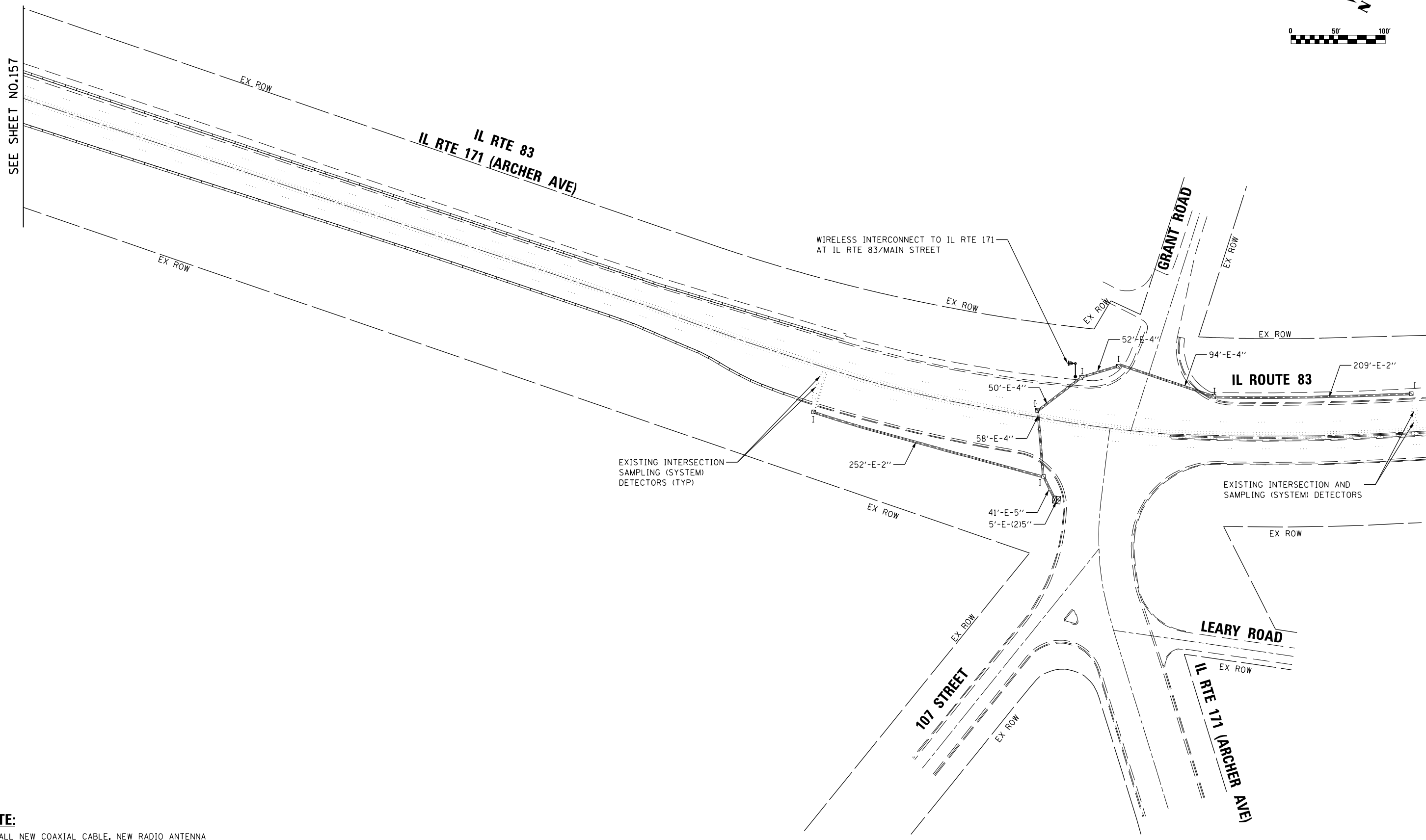
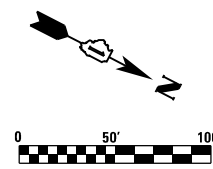
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
PROPOSED INTERCONNECT PLAN (SHEET 3 OF 4)

SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 112+00.00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	157
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

EAGLE 6E



SEE SHEET NO.157

NOTE:
 INSTALL NEW COAXIAL CABLE, NEW RADIO ANTENNA AND RELATED CONTROL EQUIPMENT TO THE CONTROLLER CABINET FOR THE WIRELESS INTERCONNECT.

TS SHT NO. 38
 FILE NAME = 0160Y25-sh1-t016.dgn



USER NAME = Valvarez	DESIGNED - FA	REVISED -
DRAWN - VEA	REVISIONS -	
PLOT SCALE = 100.0000' / 1" =	CHECKED - MF	REVISED -
PLOT DATE = 8/19/2017	DATE - 6/30/2017	REVISED -

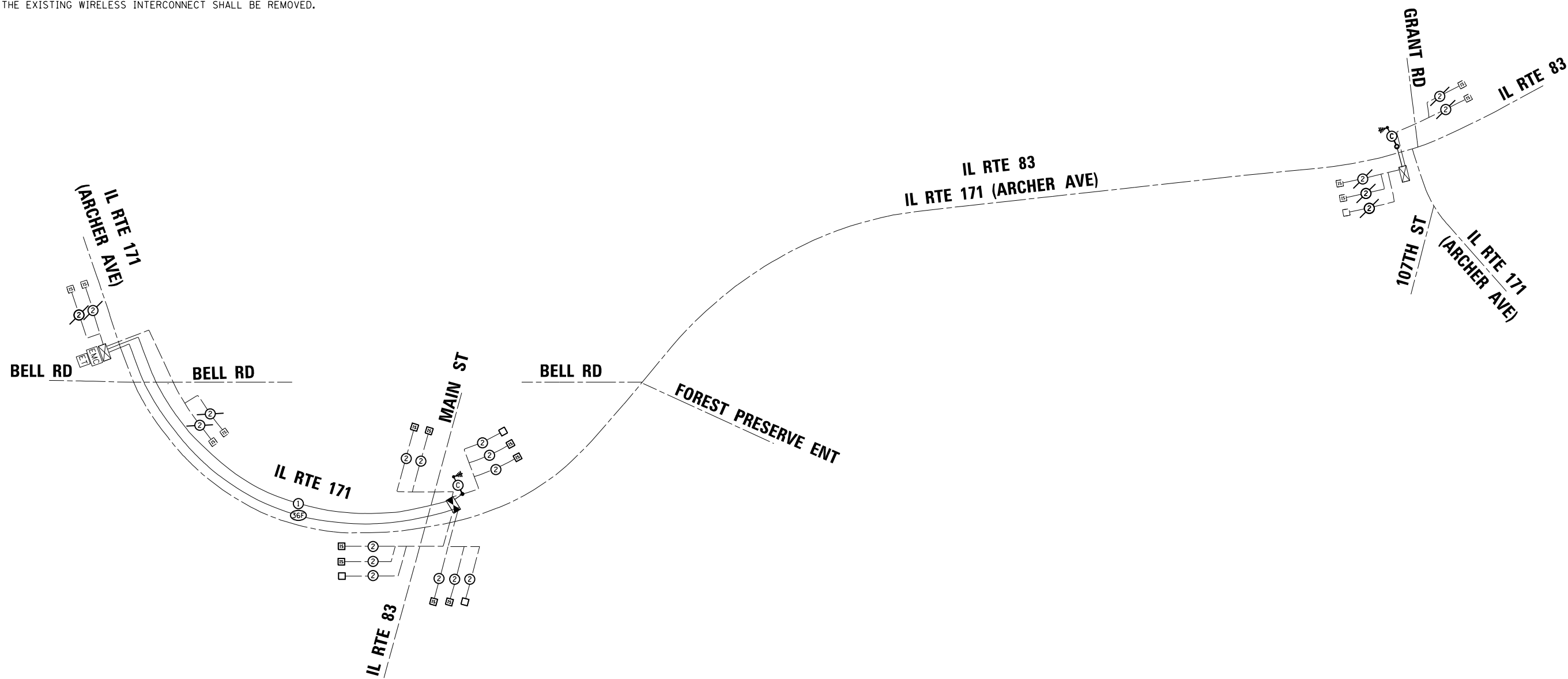
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
 PROPOSED INTERCONNECT PLAN (SHEET 4 OF 4)**
 SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 158
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EAGLE 6E

NOTE:
 PROPOSED WIRELESS INTERCONNECT WILL BE INSTALLED BETWEEN
 IL RTE 83/IL RTE 171 AT IL RTE 83/MAIN STREET AND
 IL RTE 83 AT IL RTE 171 (ARCHER AVE)/GRANT ROAD.
 THE EXISTING WIRELESS INTERCONNECT SHALL BE REMOVED.



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	913
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1624
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1100
ROD AND CLEAN EXISTING CONDUIT	FOOT	500
WIRELESS INTERCONNECT (COMPLETE)	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1650
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

TS SHT NO. 39

FILE NAME = 0160925-sh-t-ta17.dgn



USER NAME = valvarez	DESIGNED - FA	REVISED -
PLOT SCALE = 100.0000' / 1" =	DRAWN - VEA	REVISED -
PLOT DATE = 8/19/2017	CHECKED - MF	REVISED -
	DATE - 6/30/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 FROM BELL RD TO ARCHER AVE/GRANT RD
 PROPOSED INTERCONNECT SCHEMATIC & SCHEDULE OF QUANTITIES

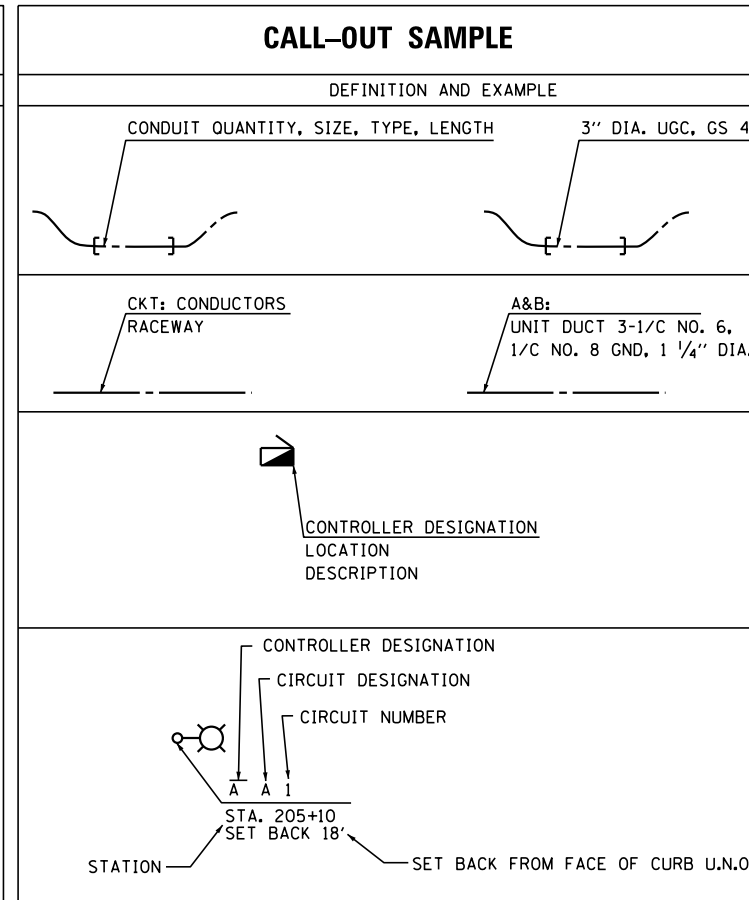
SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	159
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

EAGLE 6E

LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE, 47.5FT M.H., LED LUMINAIRE MOUNTED ON 10FT DAVIT ARM UNLESS NOTED OTHERWISE
	COMBINATION TRAFFIC SIGNAL AND LUMINAIRE LIGHTING UNIT: 45 FT. M.H., 15 FT. MAST ARM, LED LUMINAIRE
	TEMPORARY LIGHTING UNIT, 60FT WOOD POLE, 15FT MAST ARM, 400W HPS TYPE III LUMINAIRE AT 50 FT. MOUNTING HEIGHT
	EXISTING LIGHTING UNIT TO BE REMOVED
	EXISTING LIGHTING UNIT TO REMAIN IN PLACE
	PROPOSED LIGHTING CONTROLLER
	EXISTING LIGHTING CONTROLLER
	ELECTRIC UTILITY SERVICE
	TEMPORARY WOOD POLE, CLASS 4, 60FT
	PROPOSED CABLE OR UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED AERIAL LIGHTING CABLE WITH MESSENGER WIRE, SIZE AND TYPE AS NOTED

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CP	CONTROL PANEL
DA	DAVIT ARM
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
E.O.P.	EDGE OF PAVEMENT
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
MA	MAST ARM
MC	MULTI-CONDUCTOR
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC



GENERAL NOTES

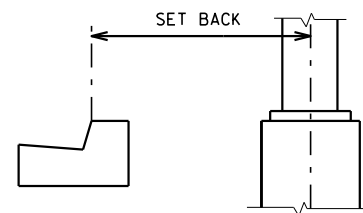
- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACT EMC DATABASE LOCATION NUMBER IS L1850.

INDEX OF DRAWINGS:

DRAWING NO.	TITLE
E-1	LEGEND, ABBREVIATIONS, GENERAL NOTES, AND INDEX OF DRAWINGS
E-2	SCHEDULE OF QUANTITIES
E-3	REMOVAL AND TEMPORARY LIGHTING PLANS (SHEET 1 OF 3)
E-4	REMOVAL AND TEMPORARY LIGHTING PLANS (SHEET 2 OF 3)
E-5	REMOVAL AND TEMPORARY LIGHTING PLANS (SHEET 3 OF 3)
E-6	PROPOSED LIGHTING PLANS (SHEET 1 OF 3)
E-7	PROPOSED LIGHTING PLANS (SHEET 2 OF 3)
E-8	PROPOSED LIGHTING PLANS (SHEET 3 OF 3)
E-9	LIGHTING CONTROLLER "CD" WIRING DIAGRAM
E-10	COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-215	LIGHTING CONTROLLER, SINGLE DOOR
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-301	LIGHT POLE FOUNDATION 40' TO 47 1/2' M.H. 15" BOLT CIRCLE
BE-310	LIGHT POLE FOUNDATION OFFSET 40' TO 47 1/2' M.H. 15" BOLT CIRCLE
BE-410	DAVIT LIGHT POLE, 47'-6" (14.478m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION



POLE SET BACK DETAIL

J:\14208\IGN\CADD Sheets\1160025-ah-1-light-1.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = mgarvida	DESIGNED - VG	REVISED -
	DRAWN - MG	REVISED -
PLOT SCALE = 100.000000:1.000000	CHECKED - RDP	REVISED -
PLOT DATE = 30-JAN-2017 09:41	DATE - 01/30/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEGEND, ABBREVIATIONS, GENERAL NOTES, AND INDEX OF DRAWINGS


SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

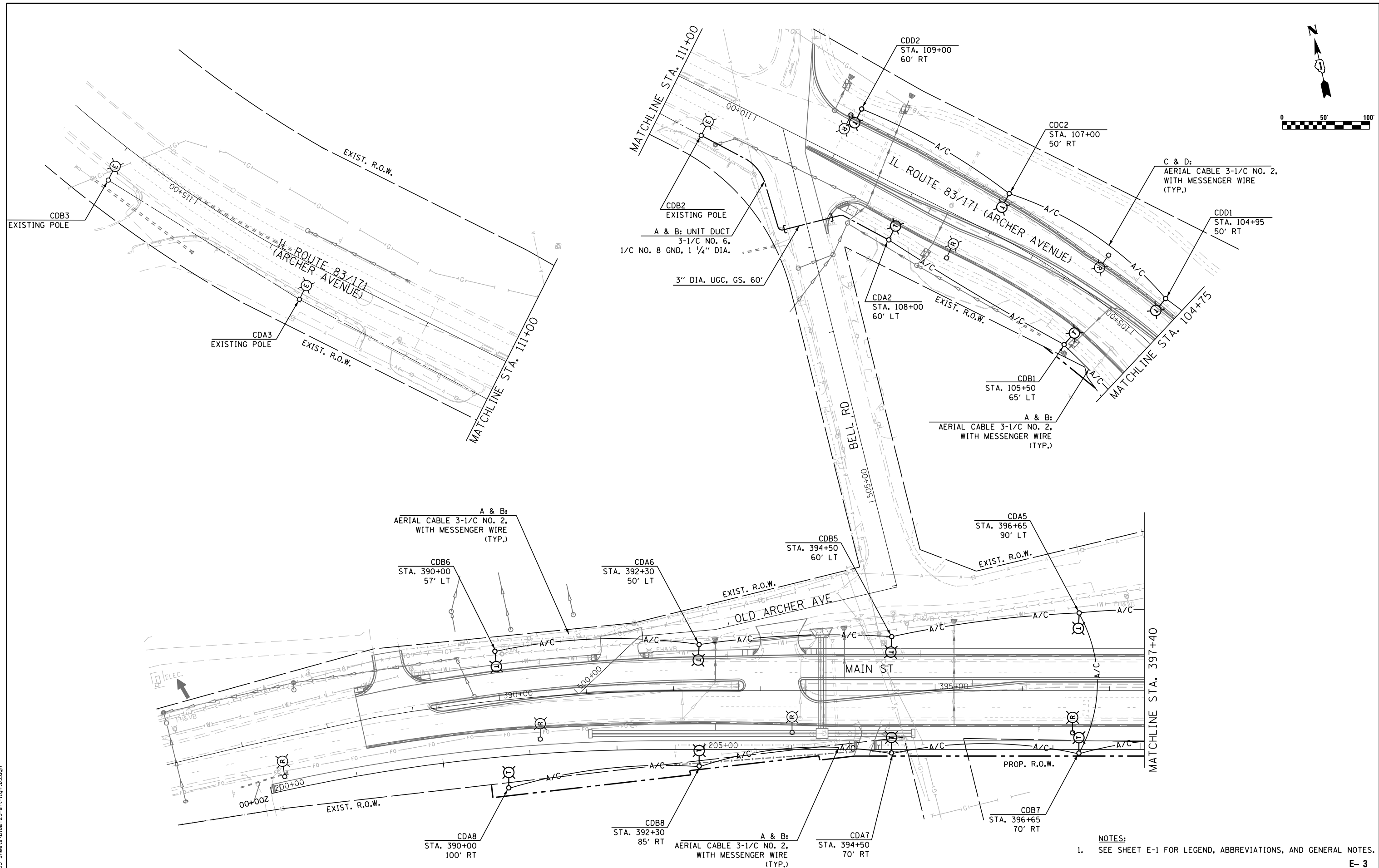
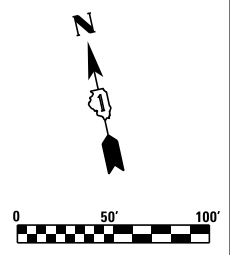
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	160
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF ROADWAY LIGHTING QUANTITIES

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1290
UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	10780
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	50
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	6900
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 10 FT. DAVIT ARM	EACH	43
LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	29
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	387
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	43
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	29
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	22
REMOVAL OF POLE FOUNDATION	EACH	22
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	38
TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1
TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	47
LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	10
RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	47
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12
REMOVE EXISTING LUMINAIRE	EACH	4

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PLOT DATE = 30-JAN-2017 09:41	CHECKED - RDP	REVISED -	REMOVED -	SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<p align="center">CONTRACT NO. 60Y25</p>				
	DATE - 01/30/2017	REVISED -		<p align="center">FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</p>							



NOTES:
 1. SEE SHEET E-1 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

E- 3

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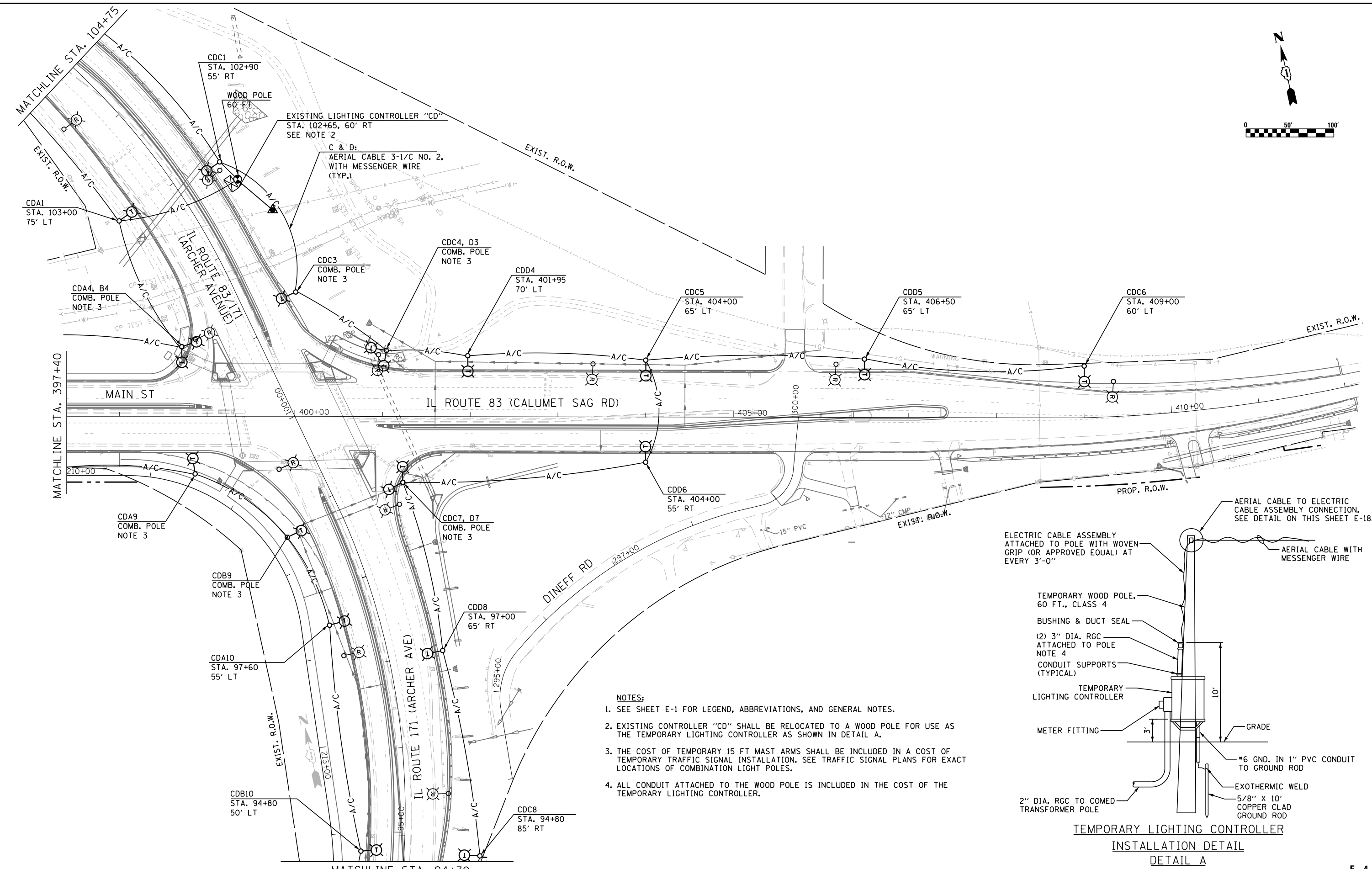
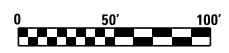
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	DATE - 01/30/2017	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

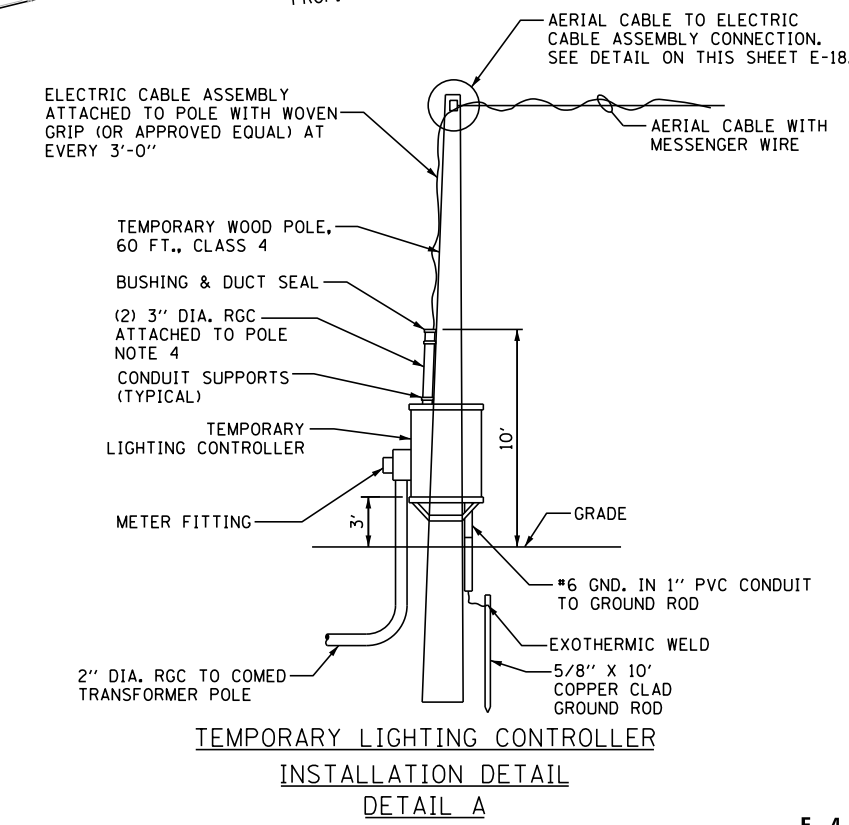
REMOVAL AND TEMPORARY LIGHTING PLANS

SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	162
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- NOTES:**
1. SEE SHEET E-1 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 2. EXISTING CONTROLLER "CD" SHALL BE RELOCATED TO A WOOD POLE FOR USE AS THE TEMPORARY LIGHTING CONTROLLER AS SHOWN IN DETAIL A.
 3. THE COST OF TEMPORARY 15 FT MAST ARMS SHALL BE INCLUDED IN A COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION. SEE TRAFFIC SIGNAL PLANS FOR EXACT LOCATIONS OF COMBINATION LIGHT POLES.
 4. ALL CONDUIT ATTACHED TO THE WOOD POLE IS INCLUDED IN THE COST OF THE TEMPORARY LIGHTING CONTROLLER.



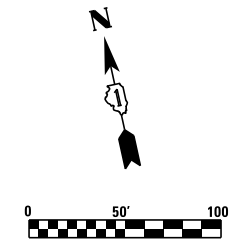
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SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

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	DATE - 01/30/2017	REVISIONS -

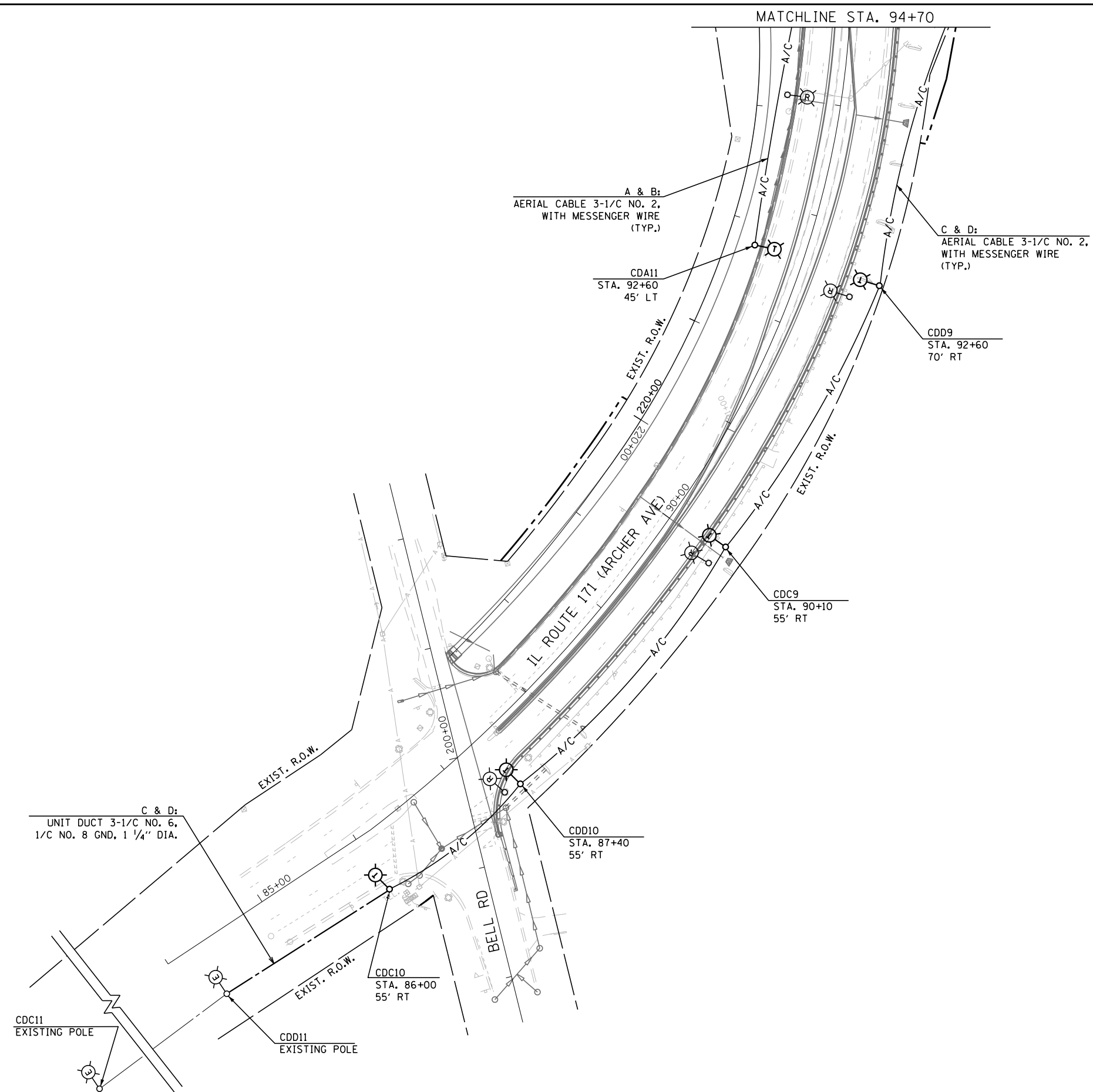
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL AND TEMPORARY LIGHTING PLANS	
SCALE: 1"=50'	SHEET NO. 2 OF 3 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	163
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 94+70



- NOTES:**
- SEE SHEET E-1 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.

E- 5

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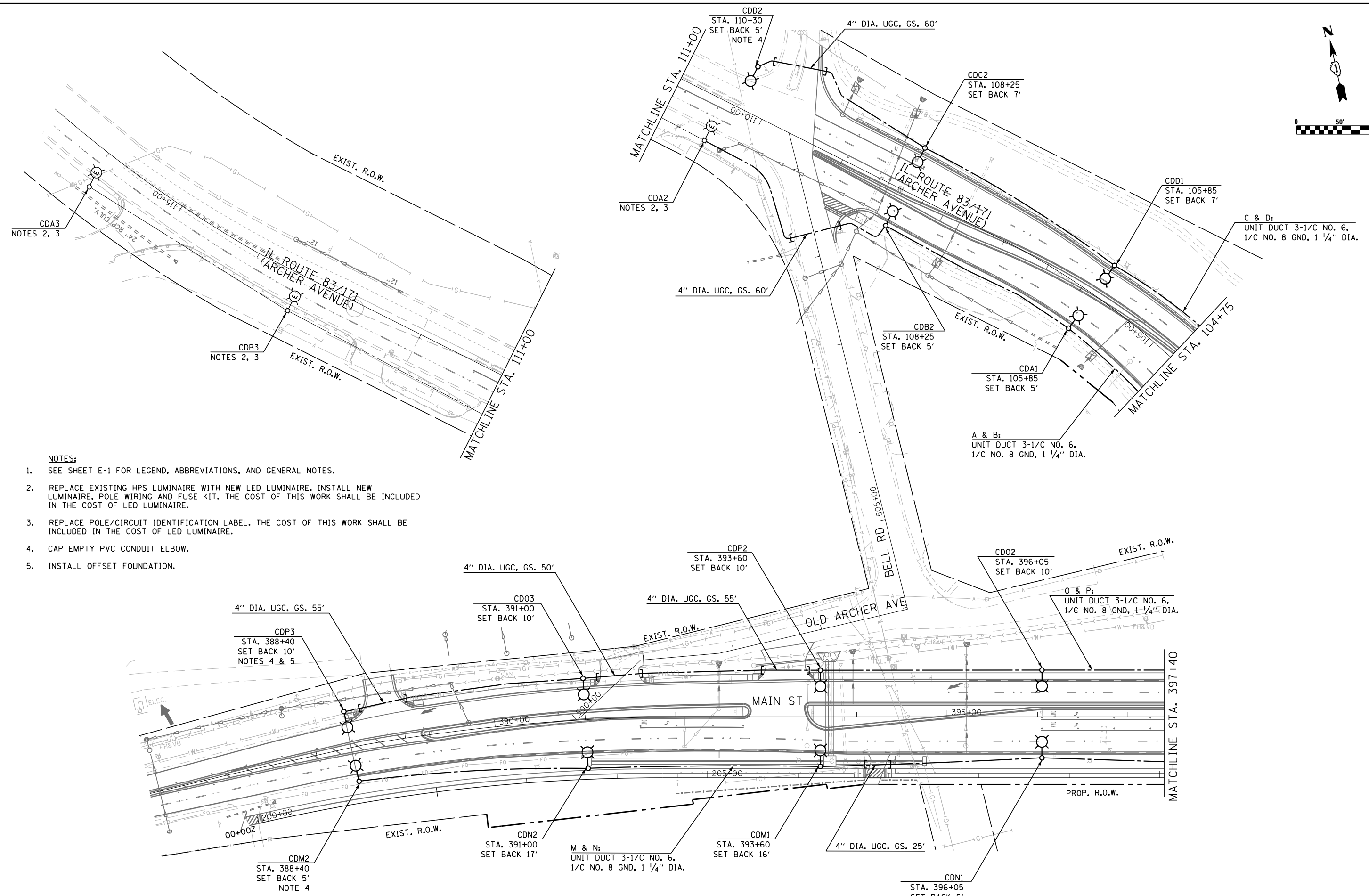
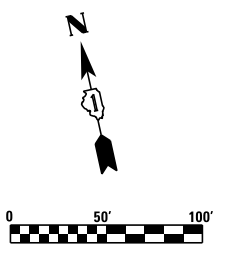
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL AND TEMPORARY LIGHTING PLANS

SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	164
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET E-1 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 2. REPLACE EXISTING HPS LUMINAIRE WITH NEW LED LUMINAIRE. INSTALL NEW LUMINAIRE, POLE WIRING AND FUSE KIT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF LED LUMINAIRE.
 3. REPLACE POLE/CIRCUIT IDENTIFICATION LABEL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF LED LUMINAIRE.
 4. CAP EMPTY PVC CONDUIT ELBOW.
 5. INSTALL OFFSET FOUNDATION.

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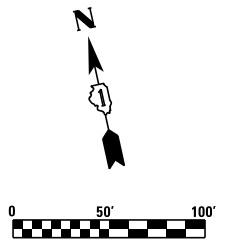


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	DATE - 01/30/2017	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLANS	
SCALE: 1"=50'	SHEET NO. 1 OF 3 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 165
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 94+70

K & L:
UNIT DUCT 3-1/C NO. 6,
1/C NO. 8 GND, 1 1/4" DIA.

I & J:
UNIT DUCT 3-1/C NO. 6,
1/C NO. 8 GND, 1 1/4" DIA.

CDL2
STA. 94+15
SET BACK 5'

CDI2
STA. 94+15
SET BACK 7'

CDK3
STA. 91+80
SET BACK 5'

CDJ2
STA. 91+80
SET BACK 7'

CDL3
STA. 89+50
SET BACK 5'

CDI3
STA. 89+50
SET BACK 7'

4" DIA. UGC, GS. 45'

CDK4
STA. 87+00
SET BACK 5'
NOTE 4

CDJ3
STA. 87+45
SET BACK 7'

85+00

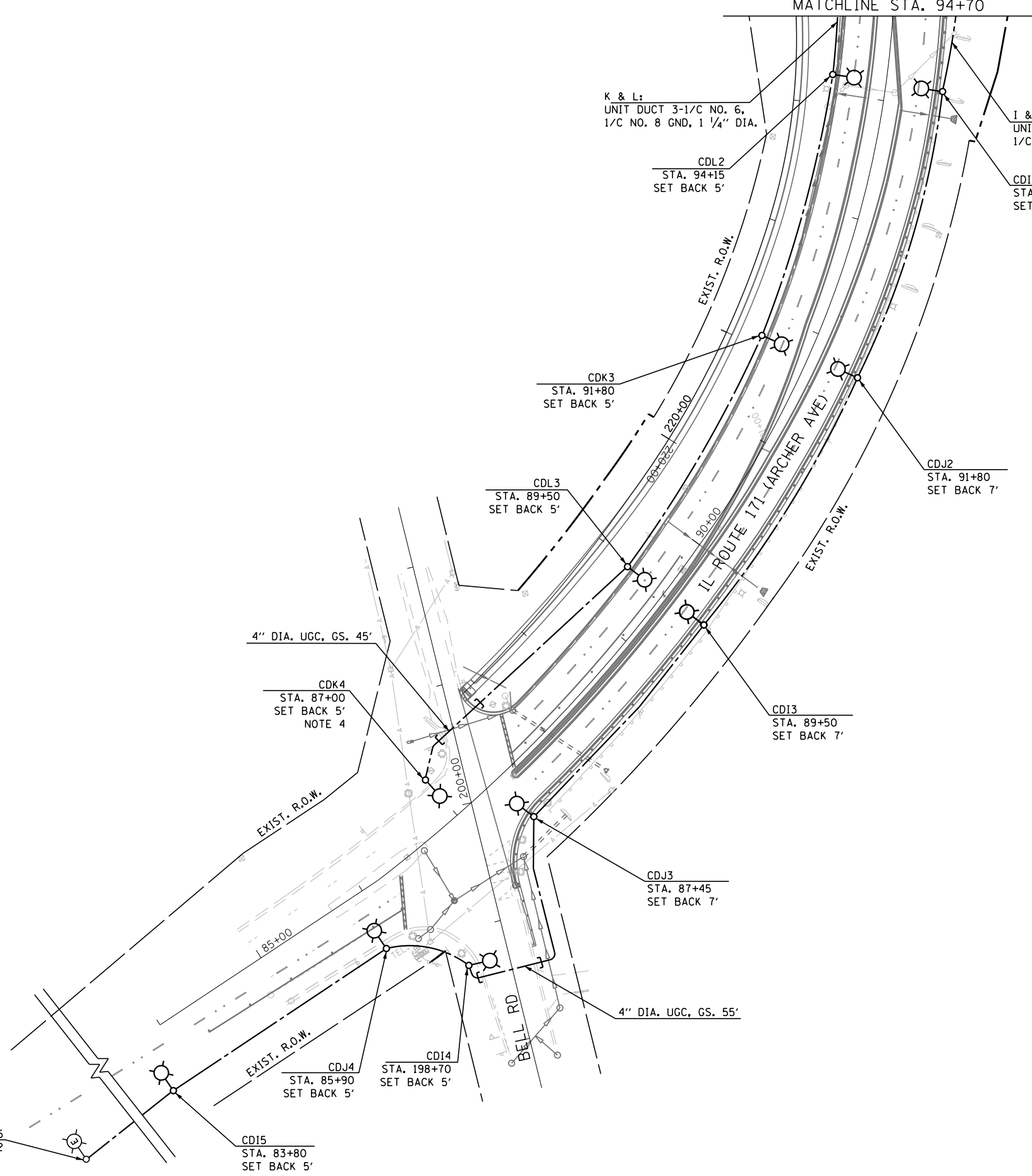
4" DIA. UGC, GS. 55'

CDJ4
STA. 85+90
SET BACK 5'

CDI4
STA. 198+70
SET BACK 5'

CDI5
STA. 83+80
SET BACK 5'

EXIST POLE CDJ5
NOTE 2



- NOTES:**
- SEE SHEET E-1 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - REPLACE EXISTING HPS LUMINAIRE WITH NEW LED LUMINAIRE. INSTALL NEW LUMINAIRE, POLE WIRING AND FUSE KIT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF LED LUMINAIRE.
 - REPLACE POLE/CIRCUIT IDENTIFICATION LABEL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF LED LUMINAIRE.
 - CAP EMPTY PVC CONDUIT ELBOW.

E- 8

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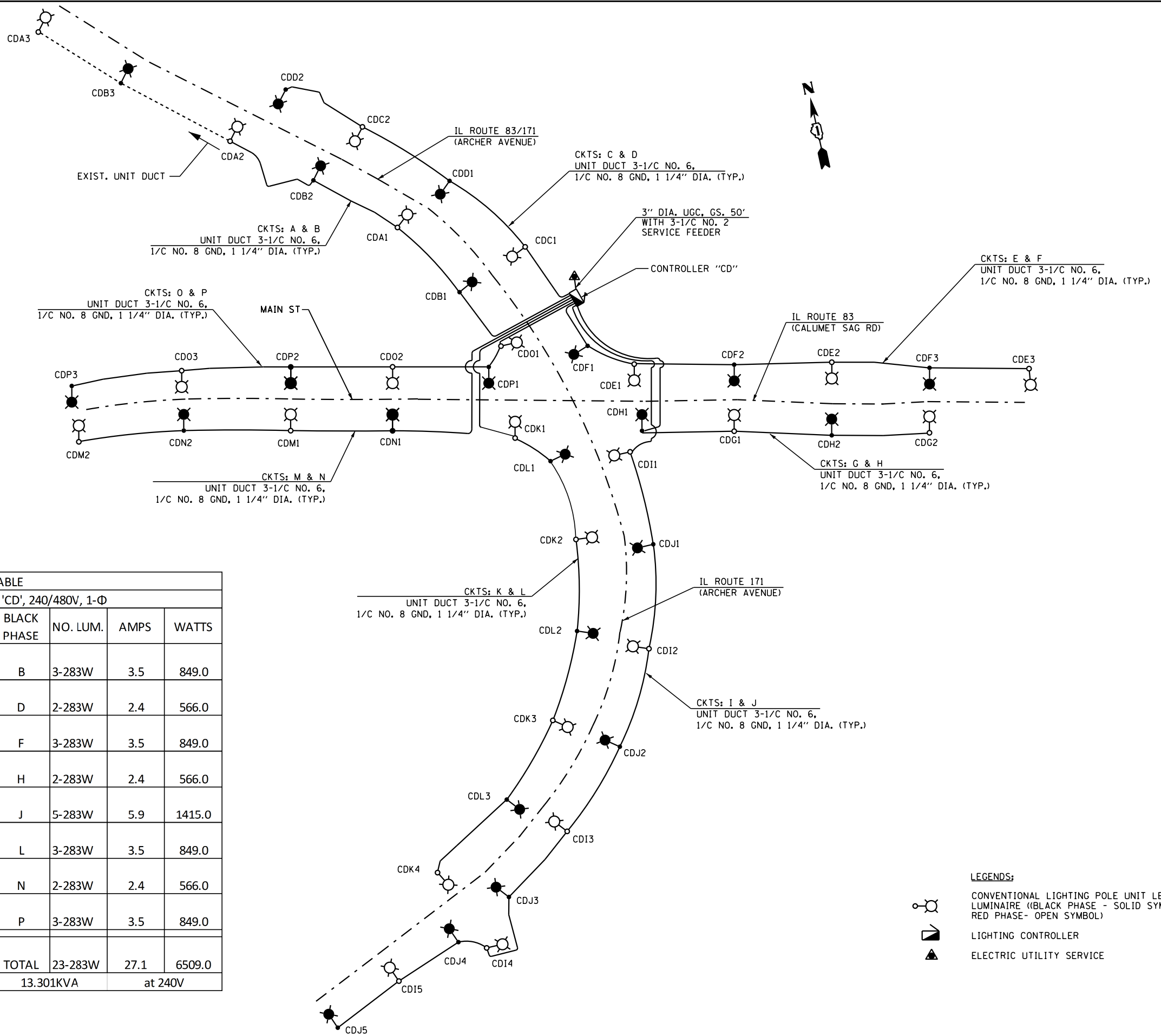
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLANS

SCALE: 1"=50 SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	167
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LOAD TABLE							
LIGHTING CONTROLLER 'CD', 240/480V, 1-Φ							
RED PHASE	NO. LUM.	AMPS	WATTS	BLACK PHASE	NO. LUM.	AMPS	WATTS
A	3-283W	3.5	849.0	B	3-283W	3.5	849.0
C	2-283W	2.4	566.0	D	2-283W	2.4	566.0
E	3-283W	3.5	849.0	F	3-283W	3.5	849.0
G	2-283W	2.4	566.0	H	2-283W	2.4	566.0
I	5-283W	5.9	1415.0	J	5-283W	5.9	1415.0
K	4-283W	4.7	1132.0	L	3-283W	3.5	849.0
M	2-283W	2.4	566.0	N	2-283W	2.4	566.0
O	3-283W	3.5	849.0	P	3-283W	3.5	849.0
TOTAL	24-283W	28.3	6792.0	TOTAL	23-283W	27.1	6509.0
TOTAL CONNECTED LOAD CAPACITY:				13.301KVA		at 240V	

- LEGENDS:**
- CONVENTIONAL LIGHTING POLE UNIT LED LUMINAIRE (BLACK PHASE - SOLID SYMBOL, RED PHASE - OPEN SYMBOL)
 - LIGHTING CONTROLLER
 - ELECTRIC UTILITY SERVICE

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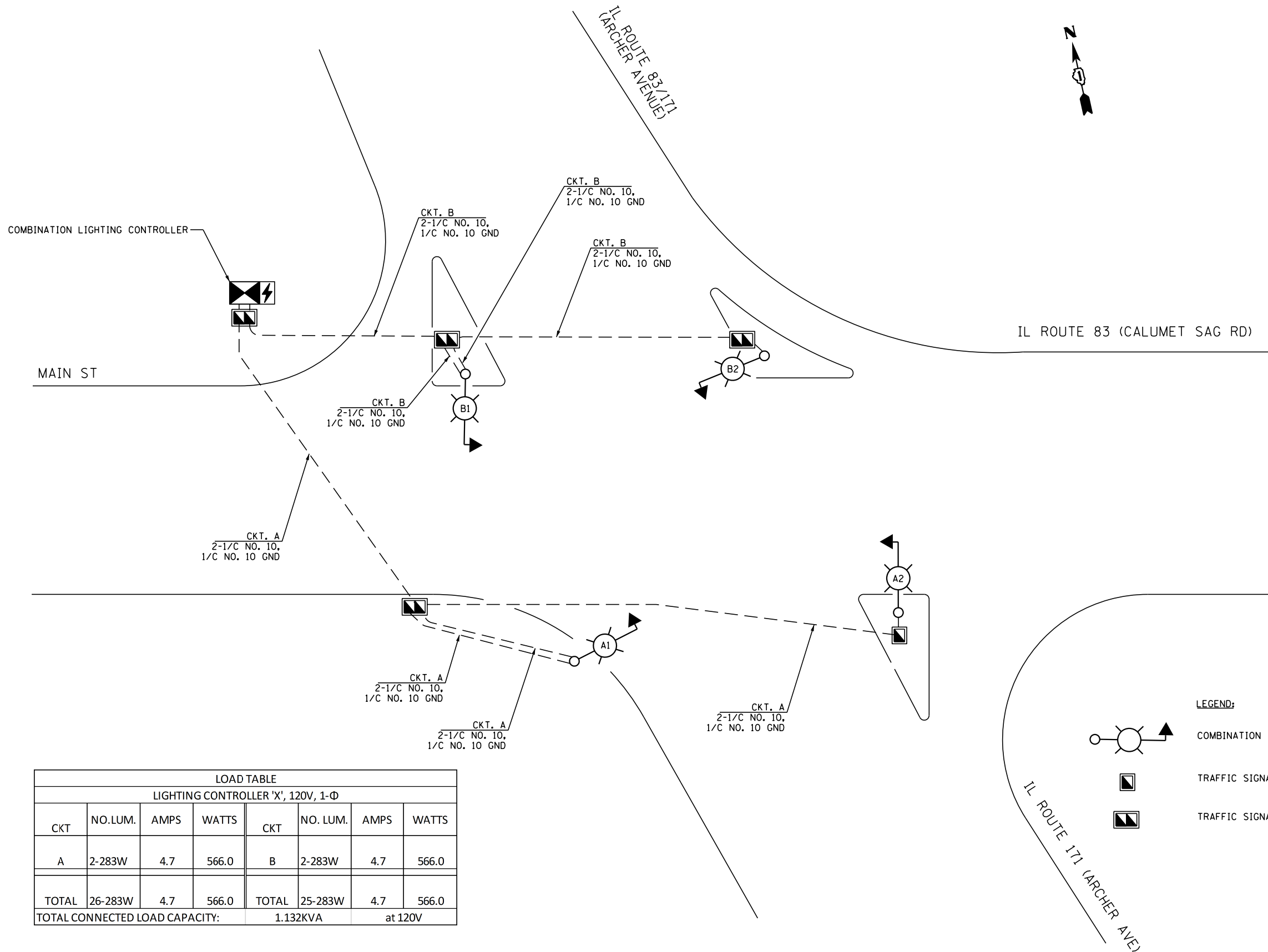


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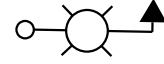


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LIGHTING CONTROLLER "CD" WIRING DIAGRAM
SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 168
CONTRACT NO. 60Y25				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LOAD TABLE							
LIGHTING CONTROLLER 'X', 120V, 1-Φ							
CKT	NO. LUM.	AMPS	WATTS	CKT	NO. LUM.	AMPS	WATTS
A	2-283W	4.7	566.0	B	2-283W	4.7	566.0
TOTAL	26-283W	4.7	566.0	TOTAL	25-283W	4.7	566.0
TOTAL CONNECTED LOAD CAPACITY:				1.132KVA		at 120V	

- LEGEND:**
-  COMBINATION TRAFFIC SIGNAL AND LED LUMINAIRE
 -  TRAFFIC SIGNAL HANDHOLE
 -  TRAFFIC SIGNAL DOUBLE HANDHOLE

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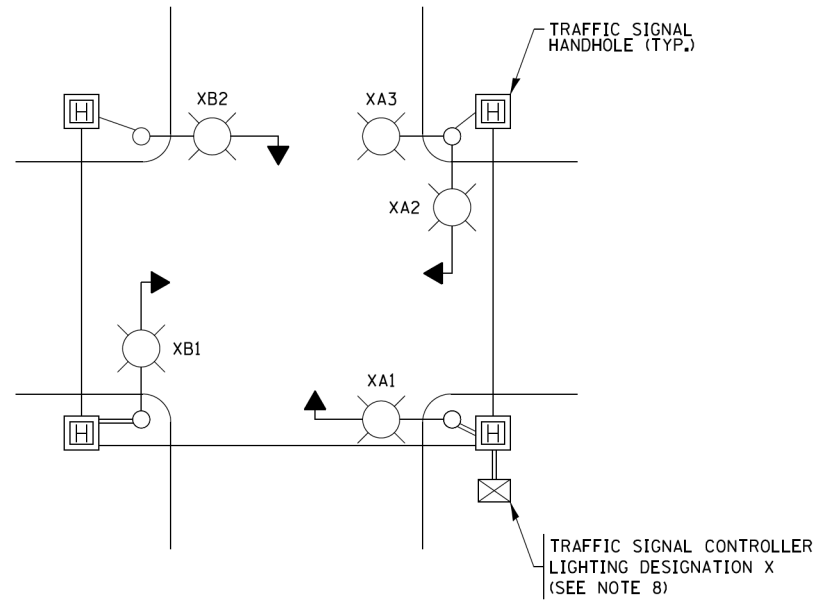
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

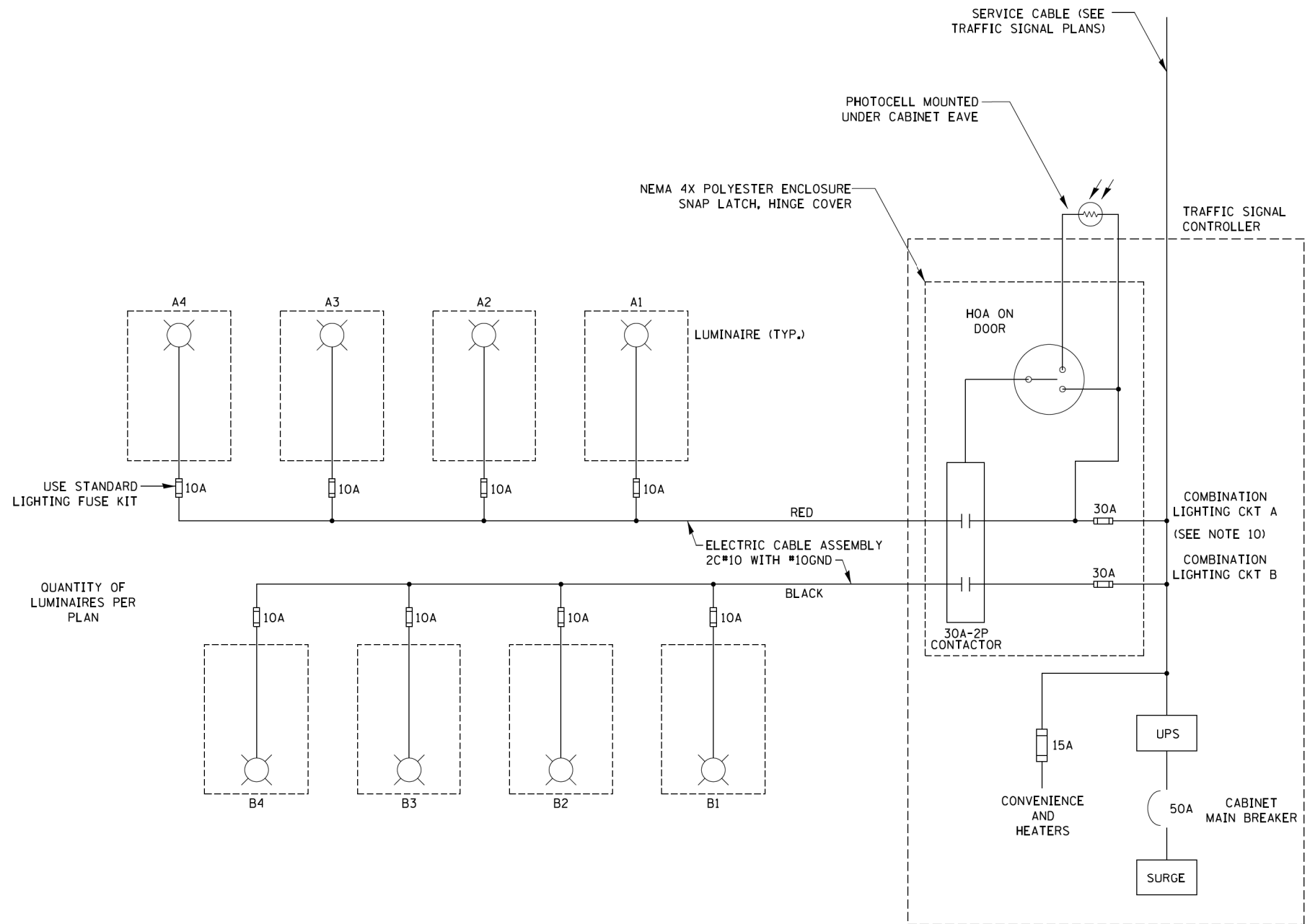
COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	169
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60Y25				

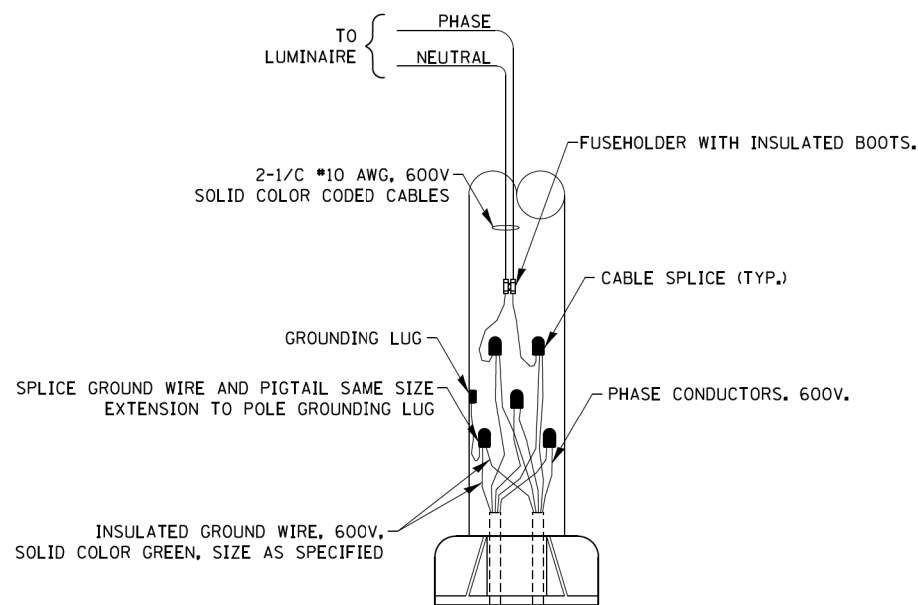


TYPICAL LIGHTING CIRCUIT DESIGNATIONS
(NOT TO SCALE)



NOTES:

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED WITH THE ENGINEER.
8. RECORD DRAWING SHALL INCLUDE:
 - TRAFFIC SIGNAL PLAN SHEET(S)
 - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
 - LIGHTING PLANS
 - THIS DETAIL
9. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
10. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

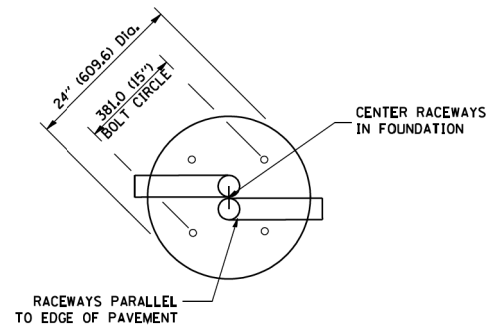
COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

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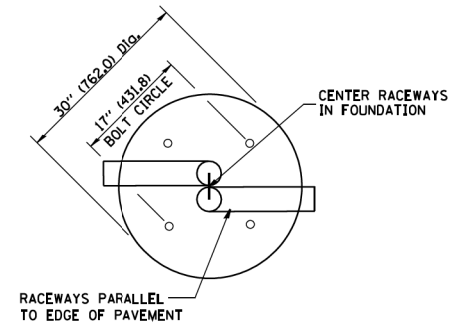
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344	3114-N(14)	COOK	225	172
BE-240			CONTRACT NO. 60Y25	
<small>ILLINOIS FED. AID PROJECT</small>				

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O _u = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O _u = 0.75 TON/SO. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O _u = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



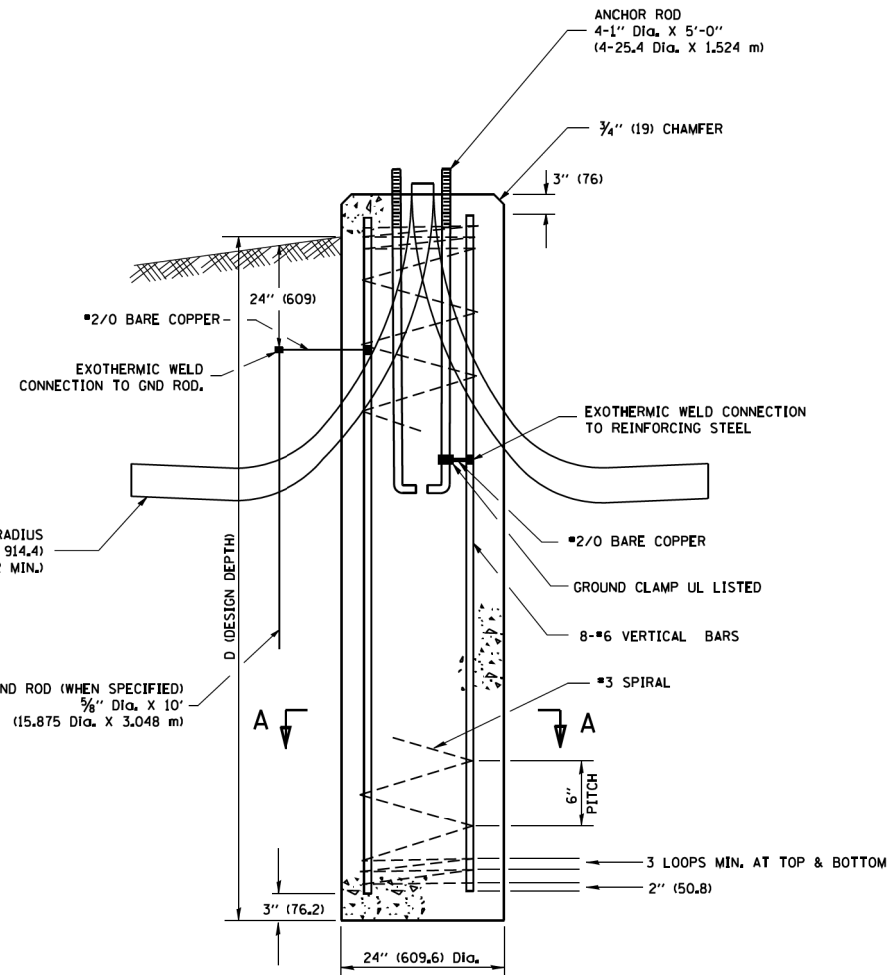
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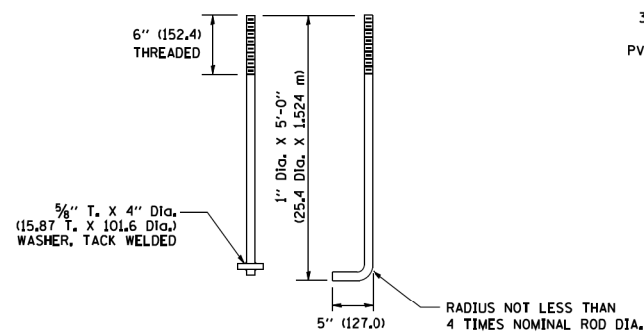
TOP VIEW

NOTES

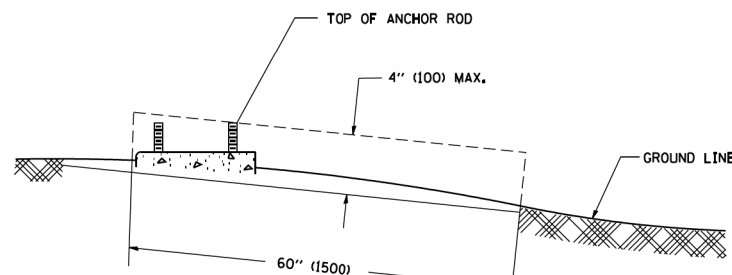
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE. THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105), NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



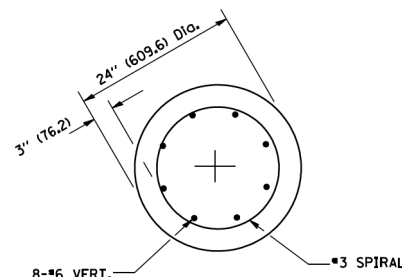
FOUNDATION DETAIL



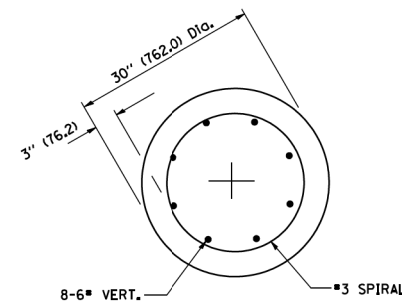
ANCHOR ROD DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

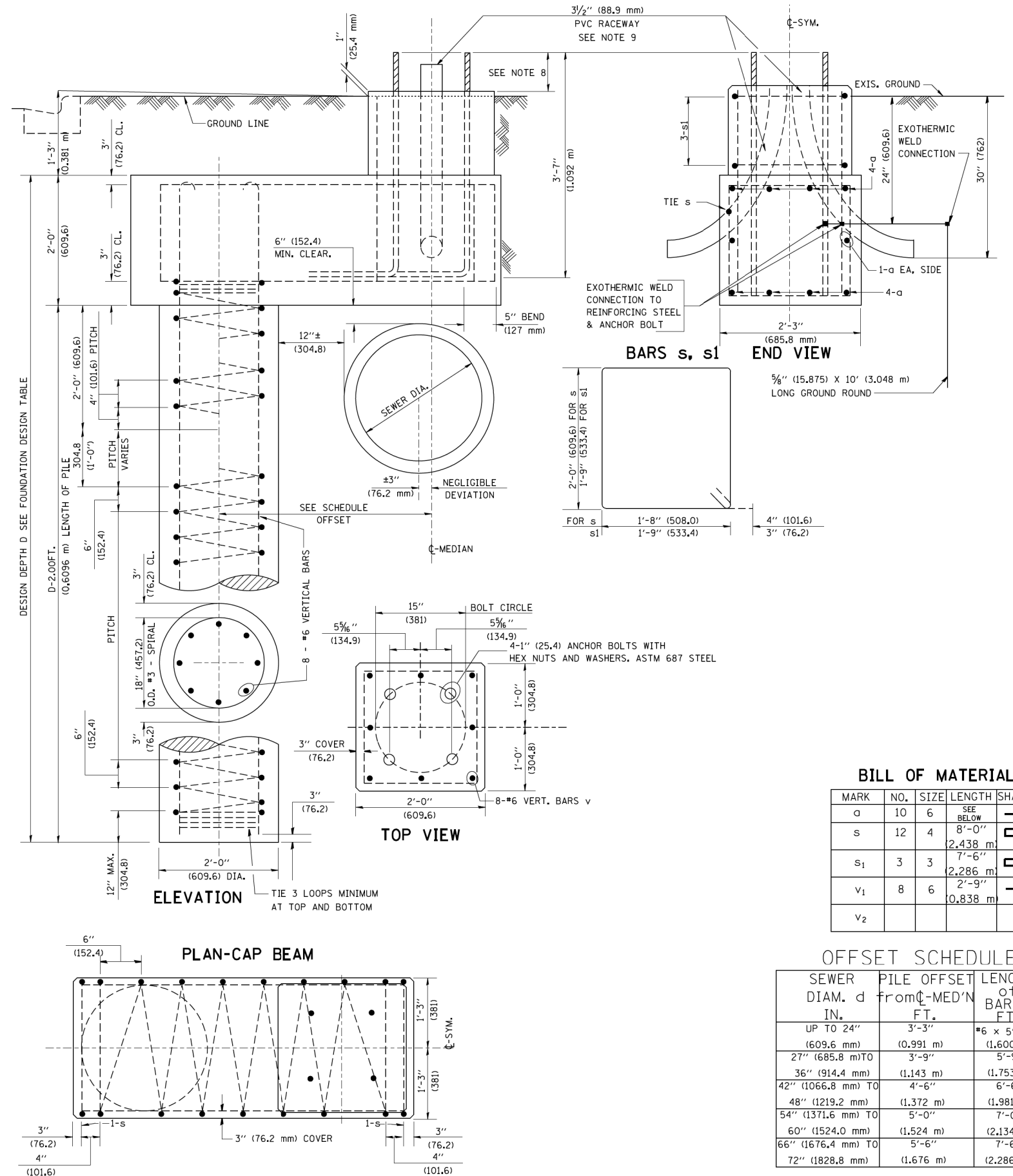
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	173
BE-301		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s ₁	3	3	7'-6" (2.286 m)	□
v ₁	8	6	0.838 m	—
v ₂				

OFFSET SCHEDULE

SEWER DIAM. d	PILE OFFSET FROM C-MEDIAN IN.	LENGTH OF BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
42" (1066.8 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
48" (1219.2 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)
54" (1371.6 mm) TO		
60" (1524.0 mm)		
66" (1676.4 mm) TO		
72" (1828.8 mm)		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET
40" (12.192 m) TO 47 1/2" (14.478 m) M.H.
15" (381 mm) BOLT CIRCLE

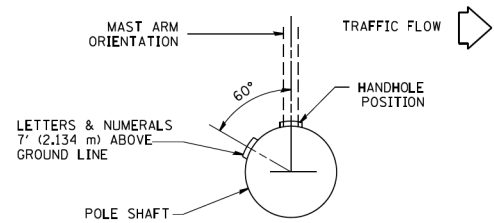
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	174

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

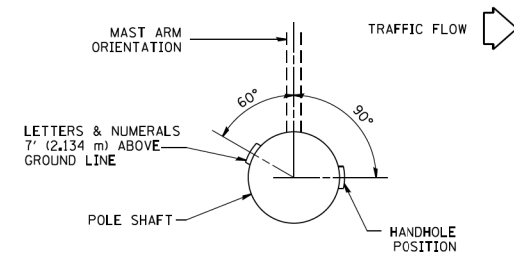
ILLINOIS FED. AID PROJECT CONTRACT NO. 60Y25

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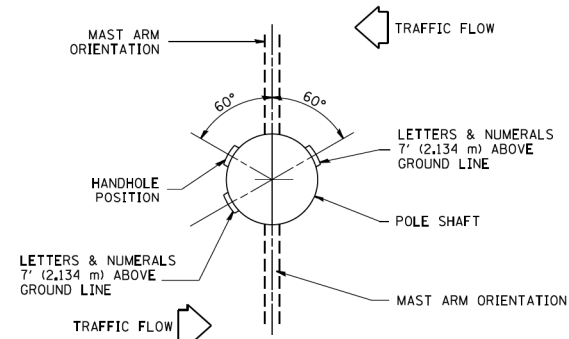
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		DATE	-



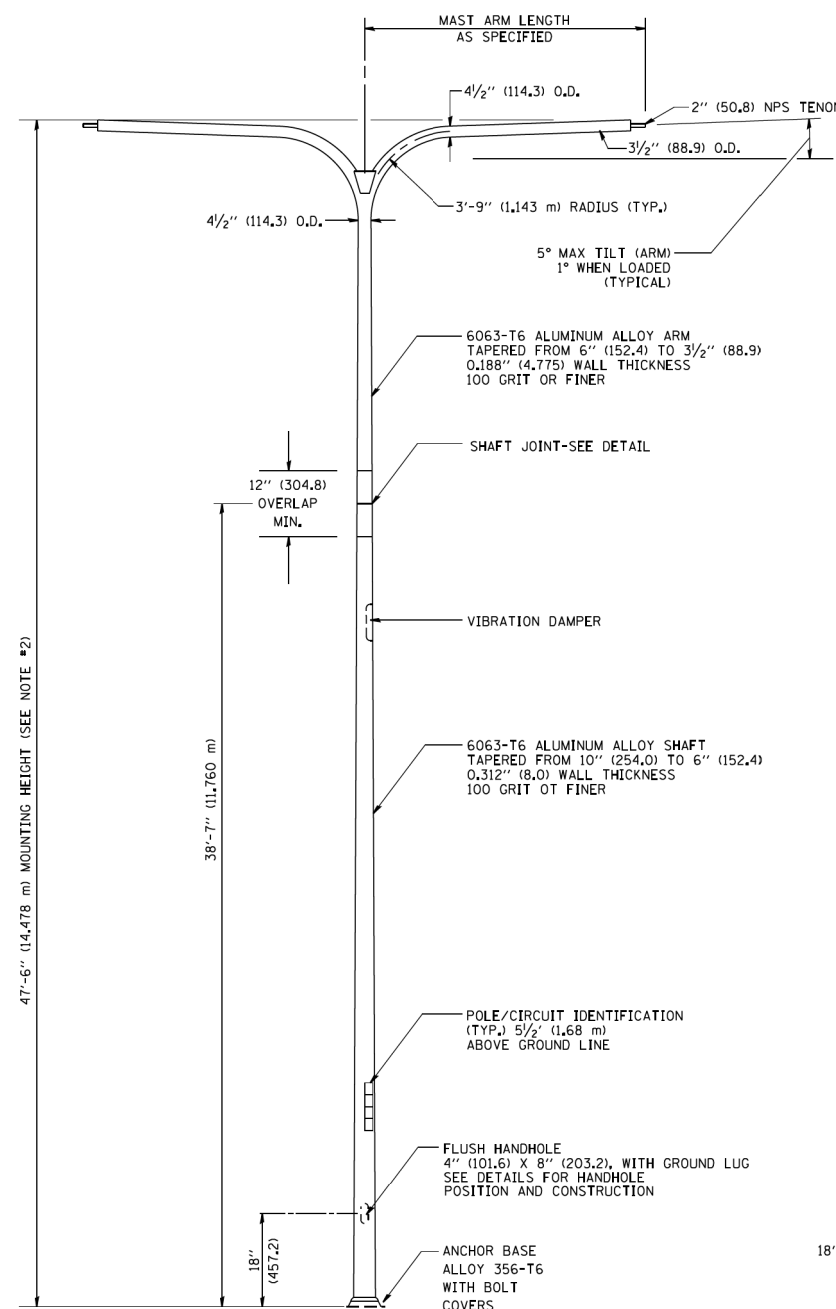
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



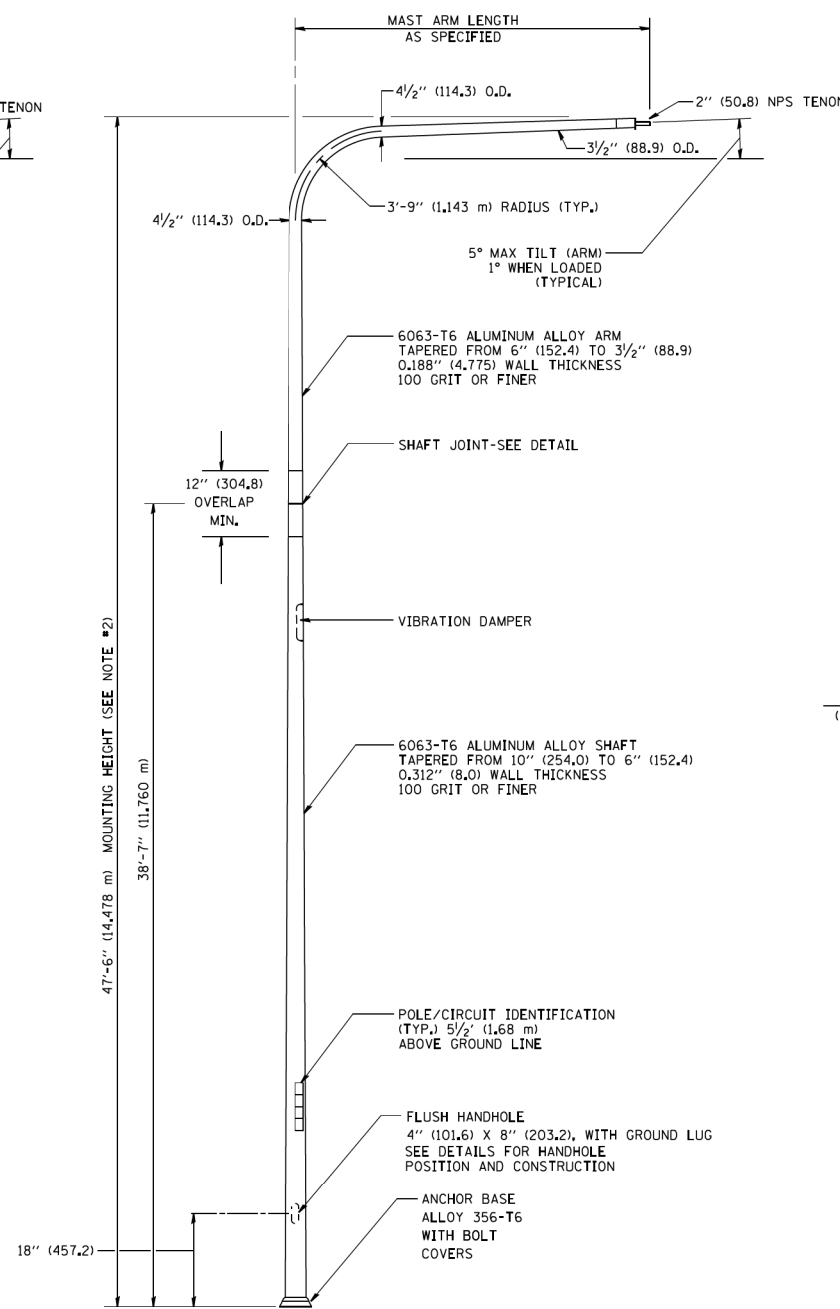
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

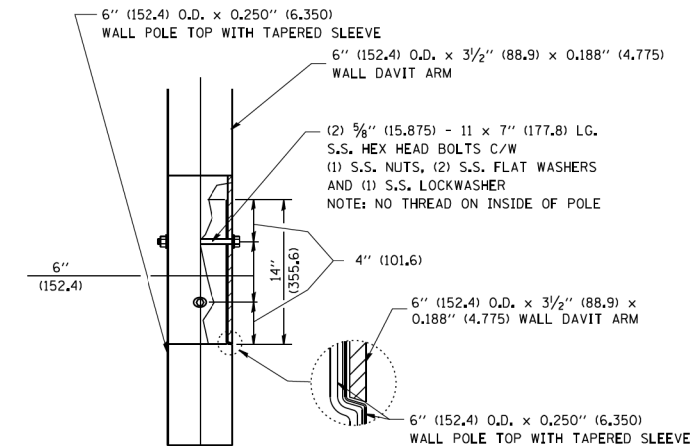


TWIN ARM POLE

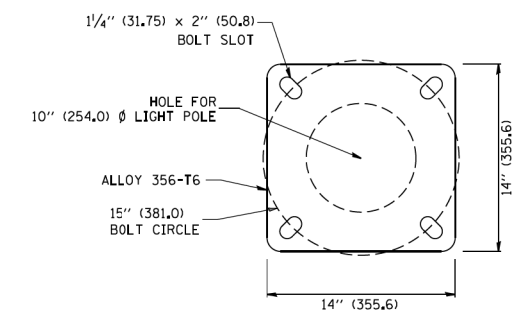


SINGLE ARM POLE

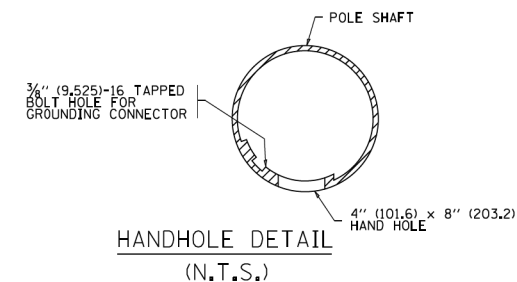
- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



DAVIT ARM CONNECTION
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



HANDHOLE DETAIL
(N.T.S.)

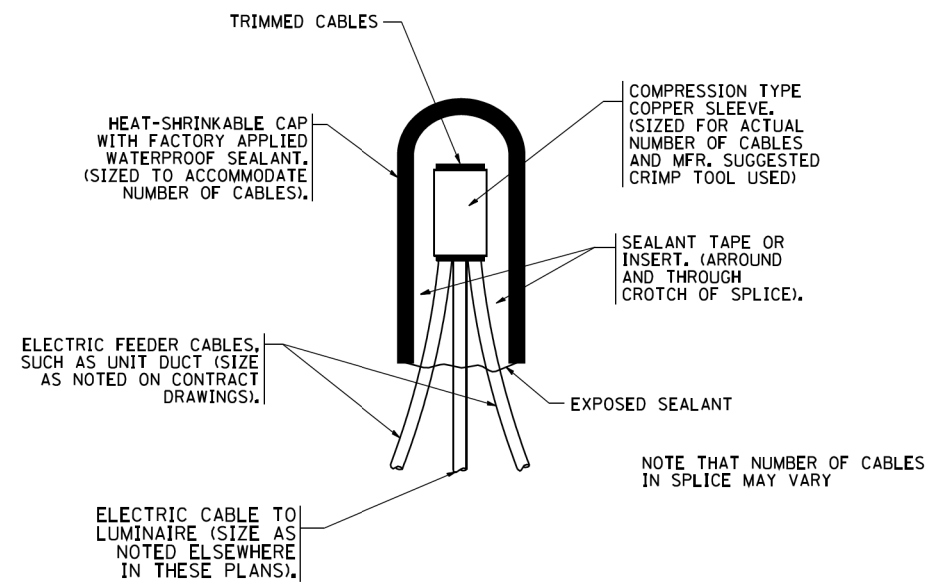
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	PLOT DATE = 4/4/2013	DATE -	REVISED - R. TOMSONS 01-18-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

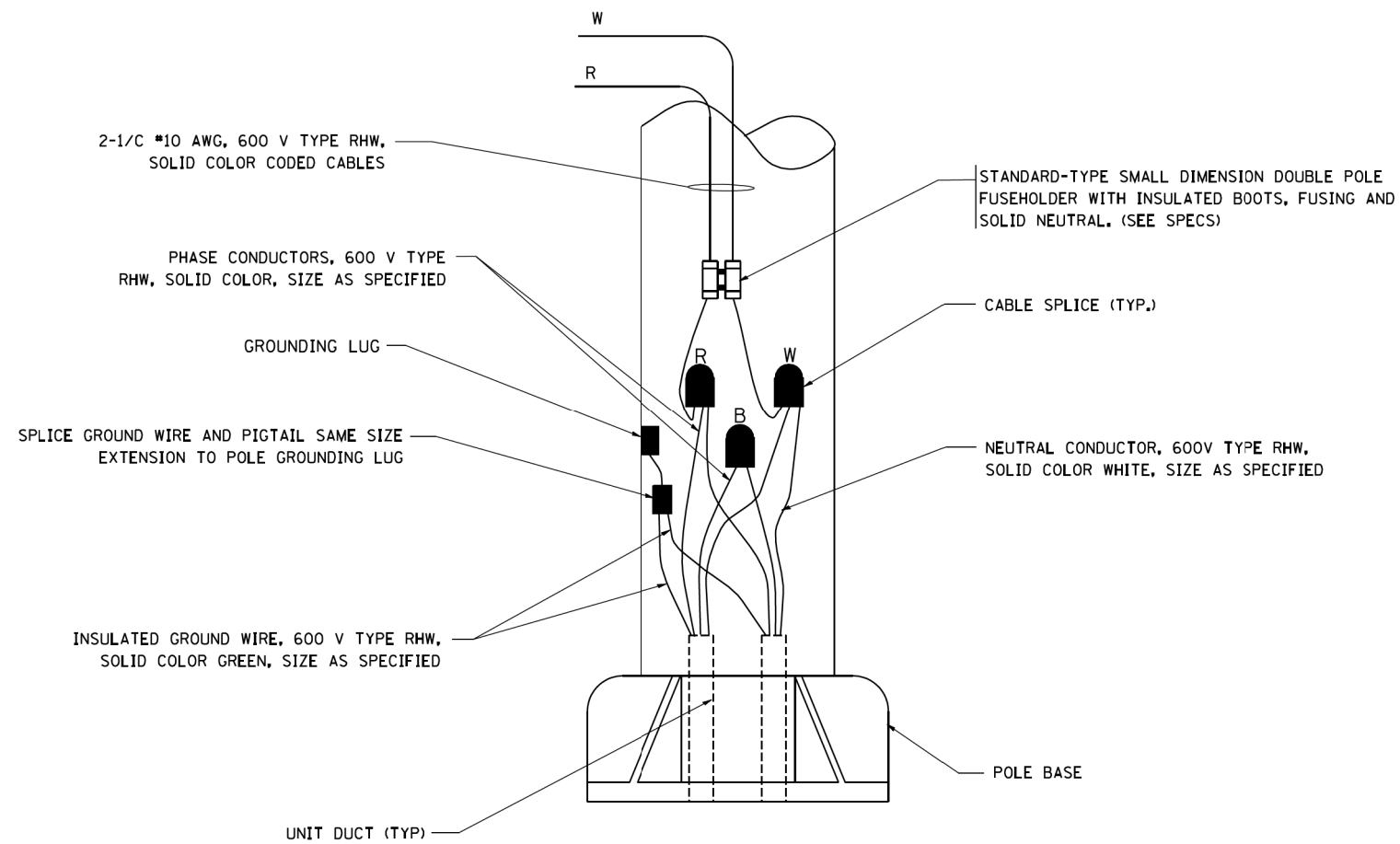
DAVIT LIGHT POLE			
47'-6" (14.478 m) MOUNTING HEIGHT			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	175
BE-410		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				



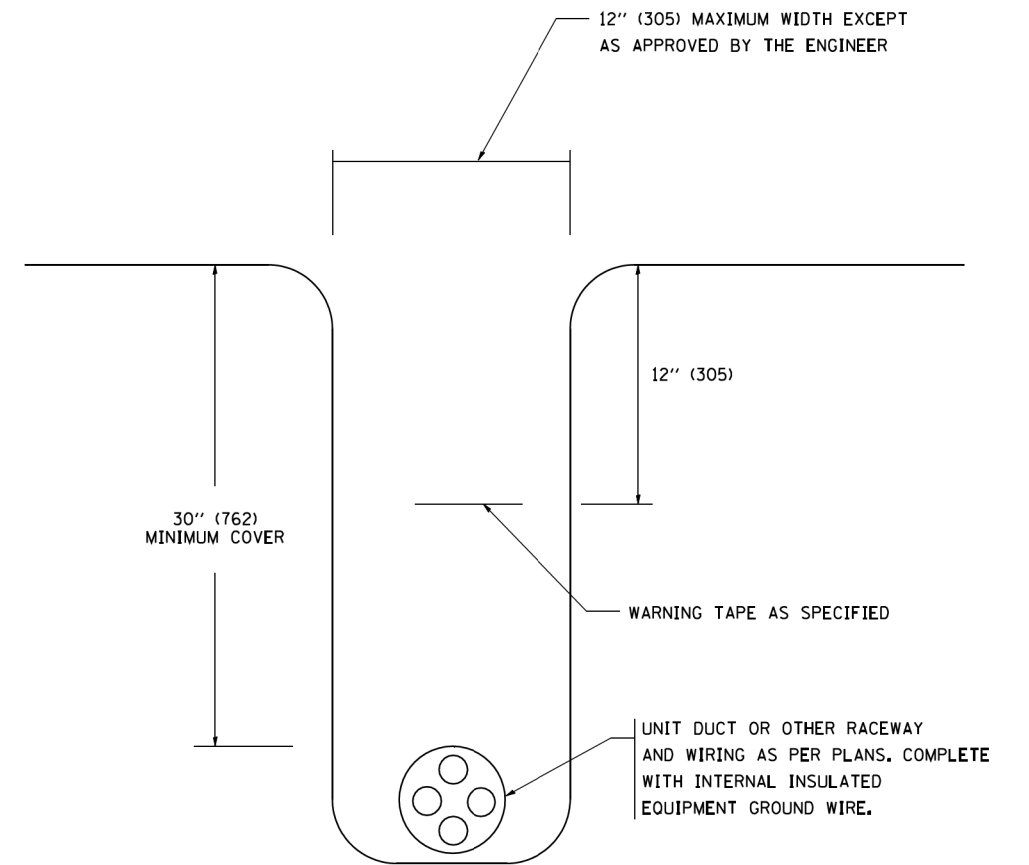
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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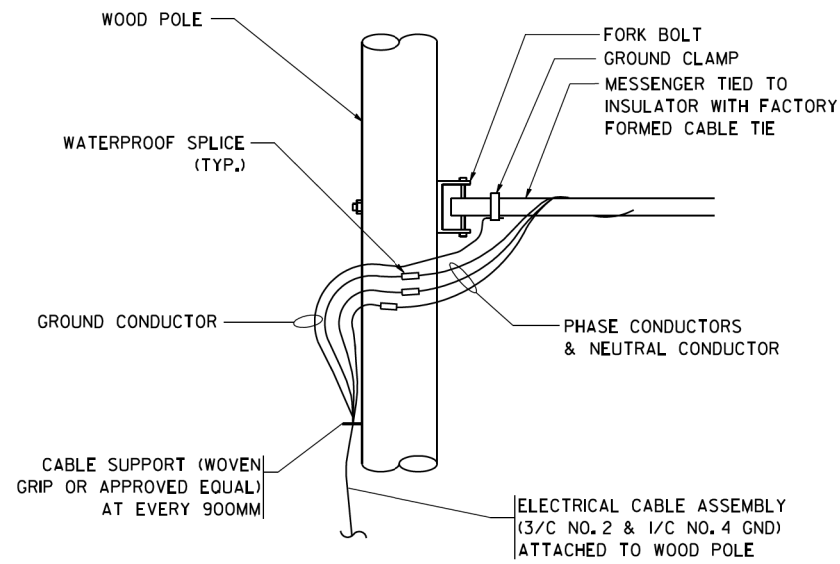
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

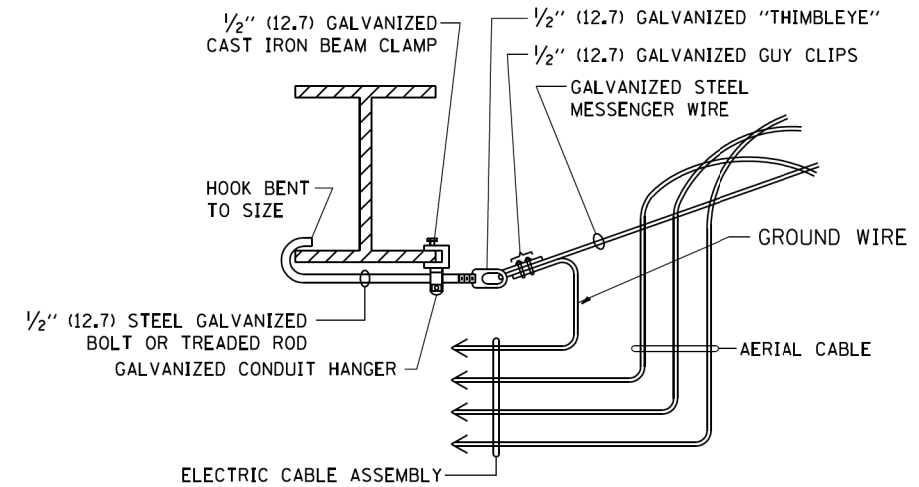
**MISC. ELECTRICAL DETAILS
SHEET A**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	177
BE-702		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



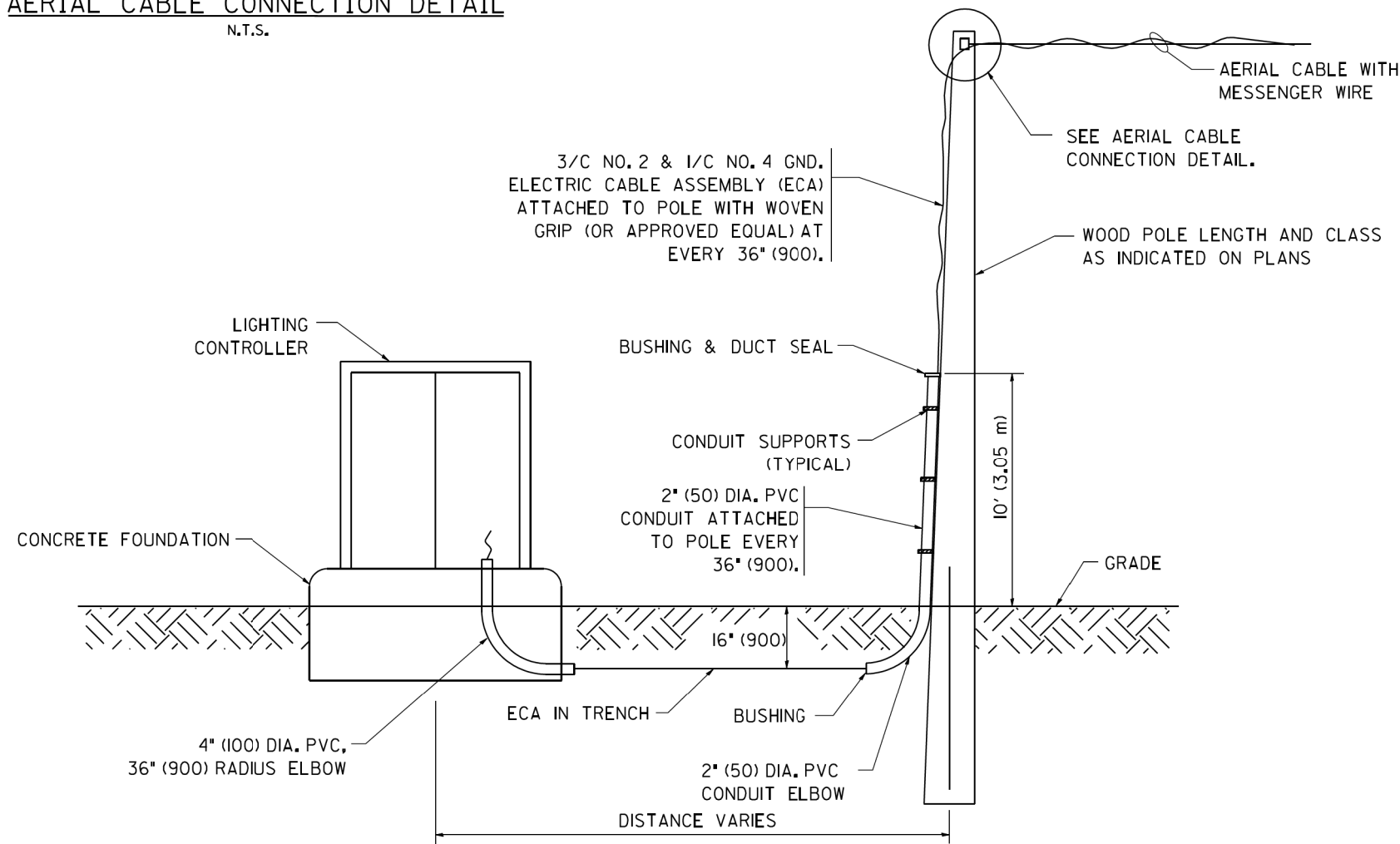
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

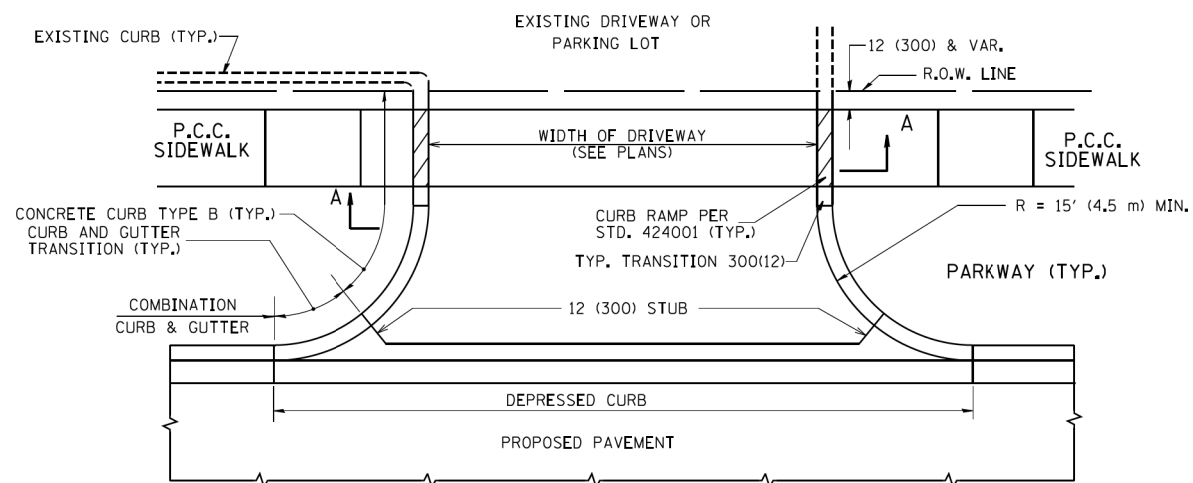
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



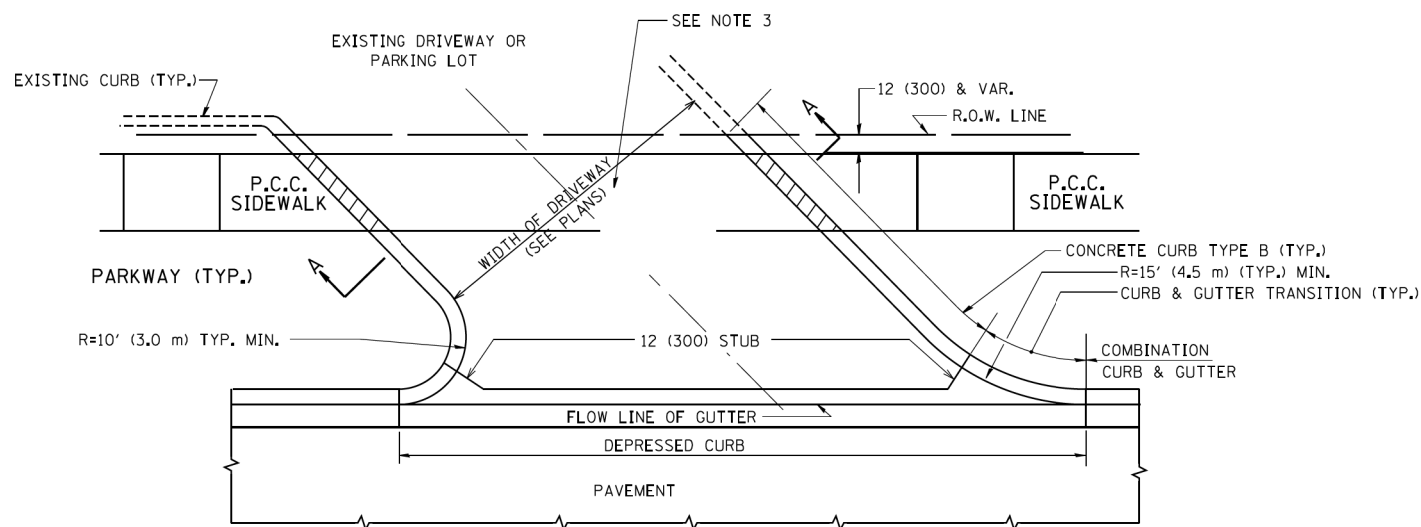
WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
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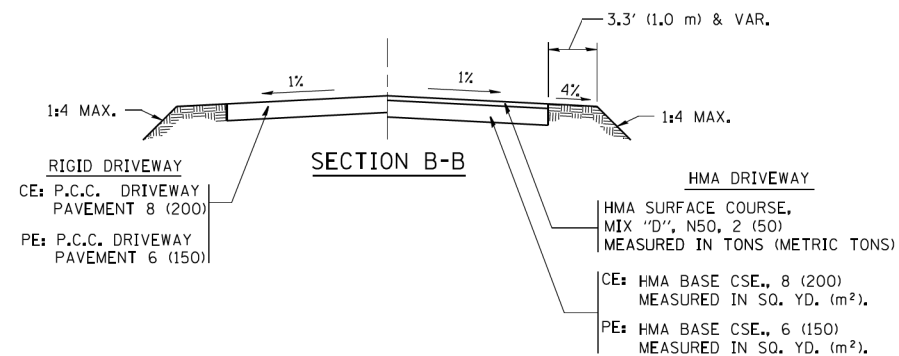
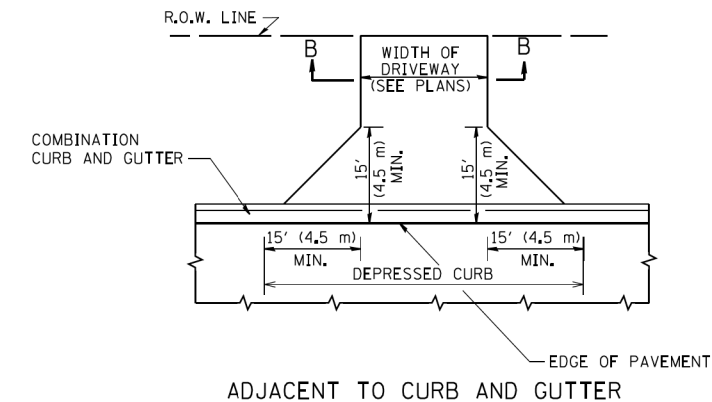
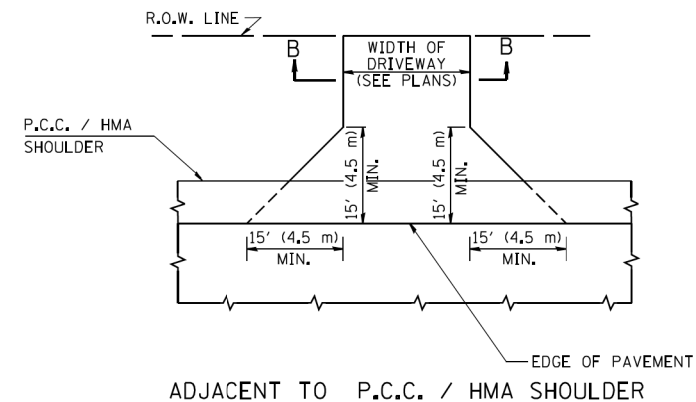
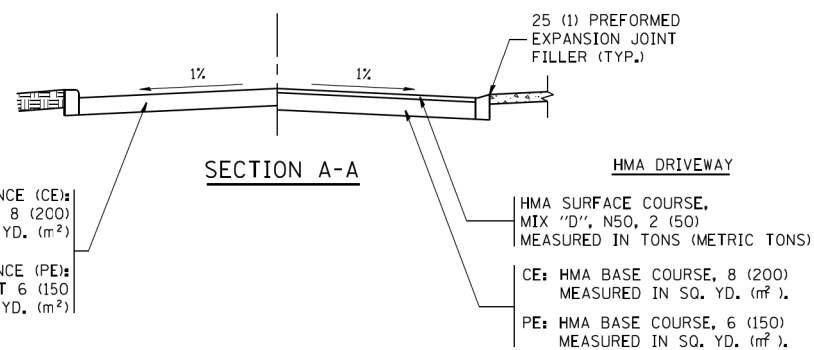
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PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

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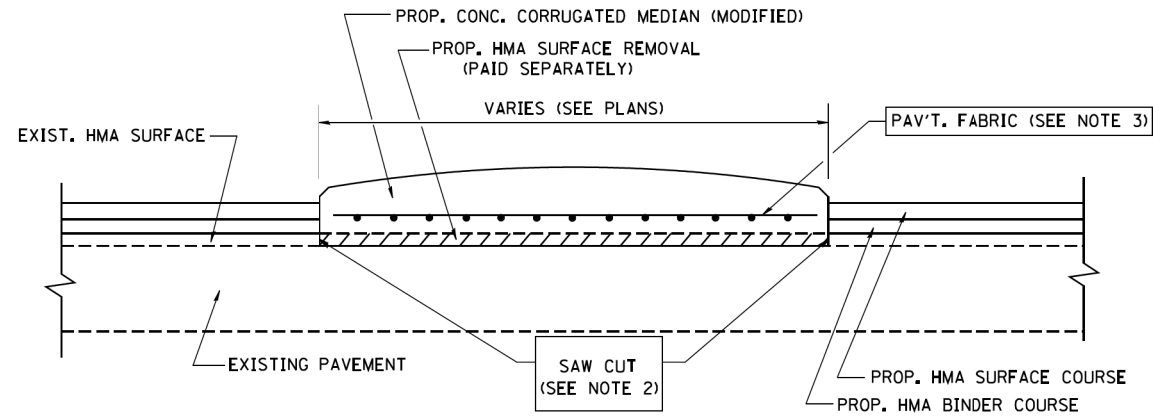
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	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

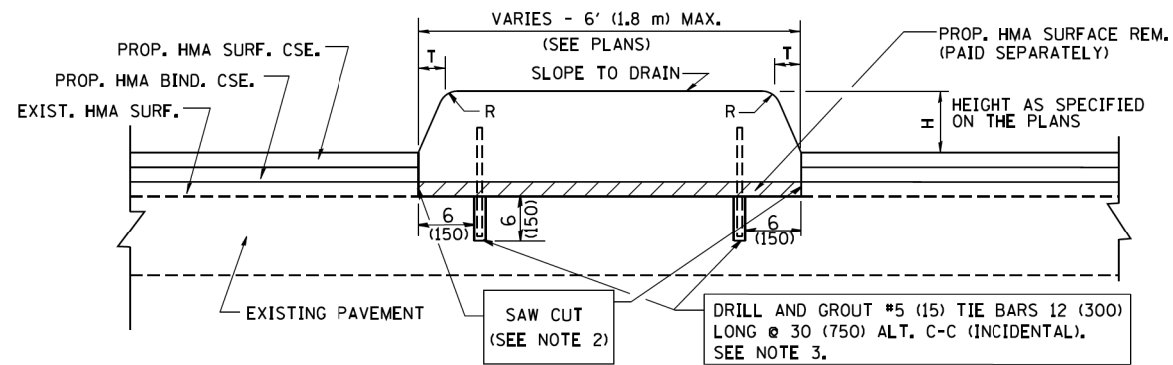
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	180
BD0156-07 (BD-01)		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				



- NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
 3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



- NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
 3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

**DETAILS FOR CONCRETE MEDIAN
TYPE SB (DOWELLED)**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB (DOWELLED)"

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

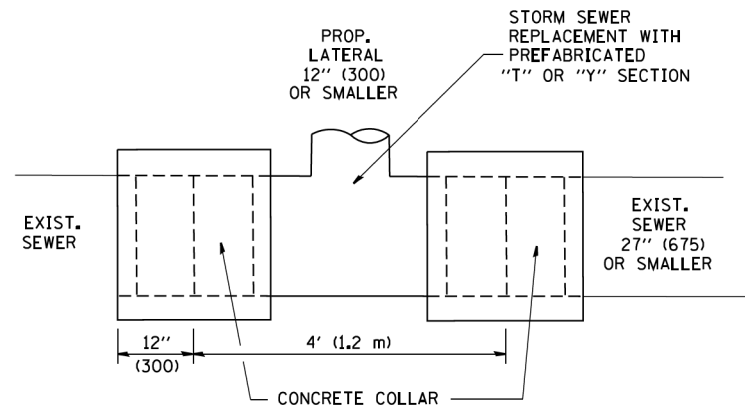
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	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - E. GOMEZ 08-28-00
	PLOT DATE = 1/4/2008	DATE - 05-14-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

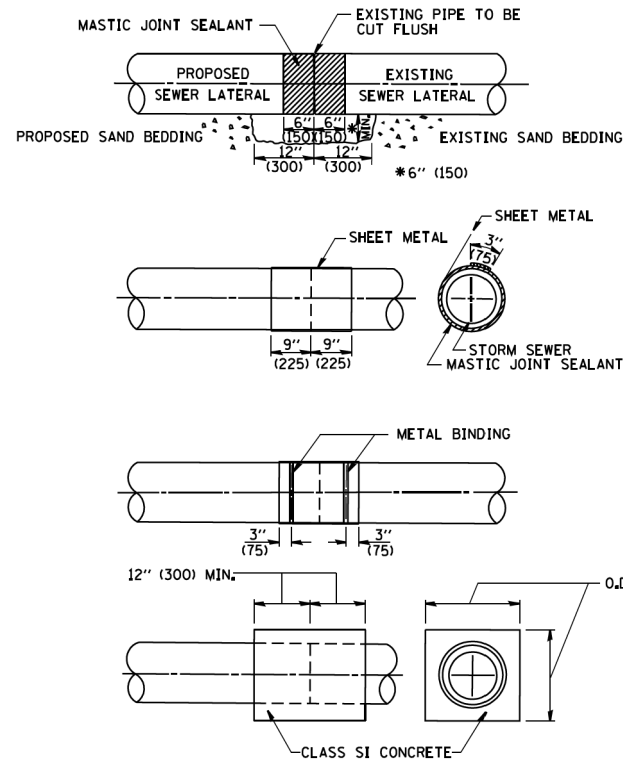
DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED) CORRUGATED MEDIAN (MODIFIED)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	181
BD600-02 (BD-5)		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

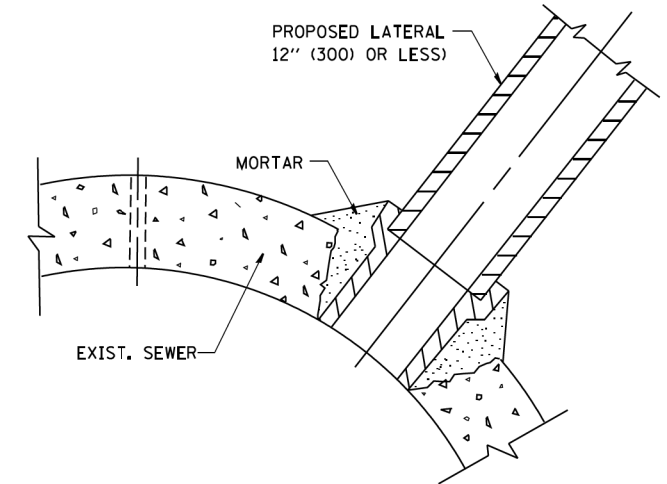


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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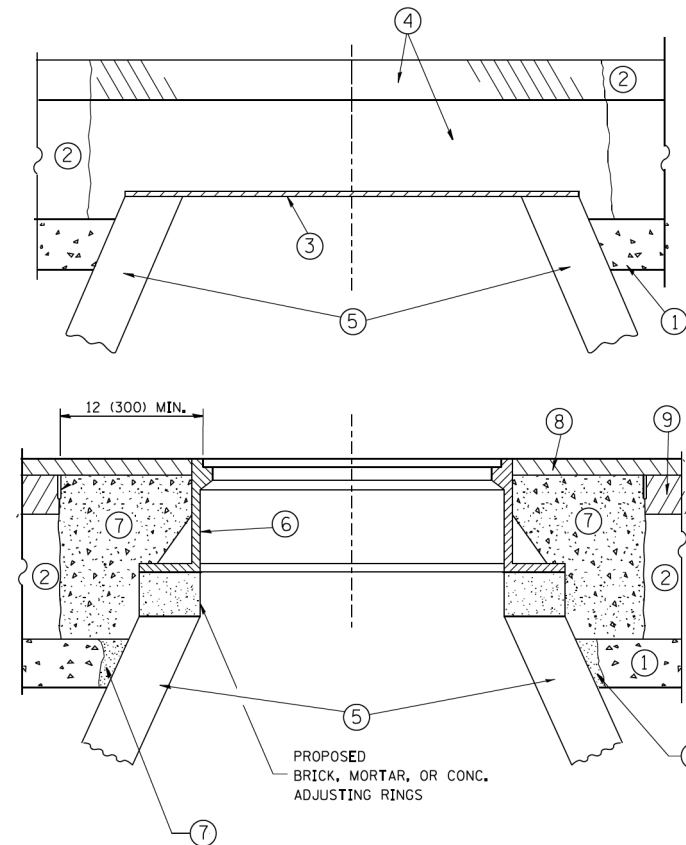
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	PLOT SCALE = 50.000' / 1"	CHECKED -	REVISED - R. SHAH 10-25-94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	182
BD500-01 (BD-7)			CONTRACT NO. 60Y25	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

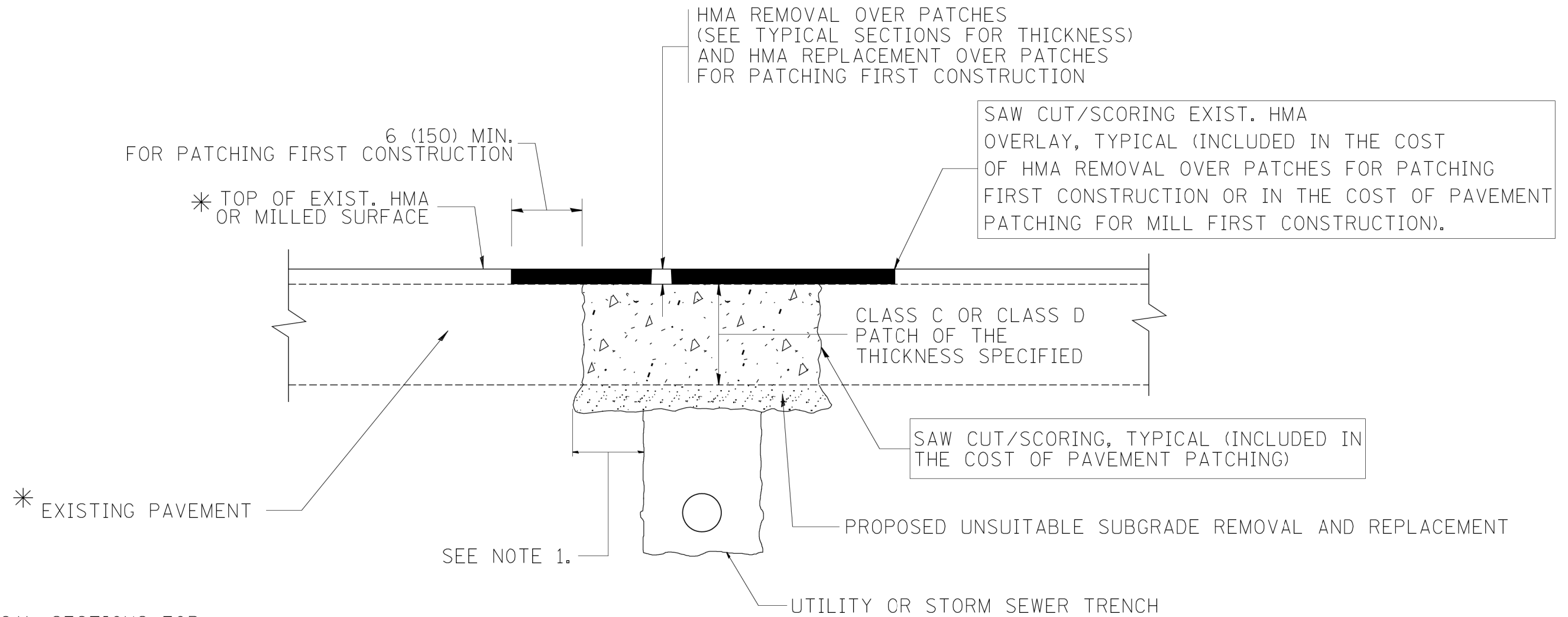
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	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		F.A. RTE. 344	SECTION 3114-N(14)	COUNTY COOK	TOTAL SHEETS 225	SHEET NO. 183
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD600-03 (BD-8)		CONTRACT NO. 60Y25	
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT						



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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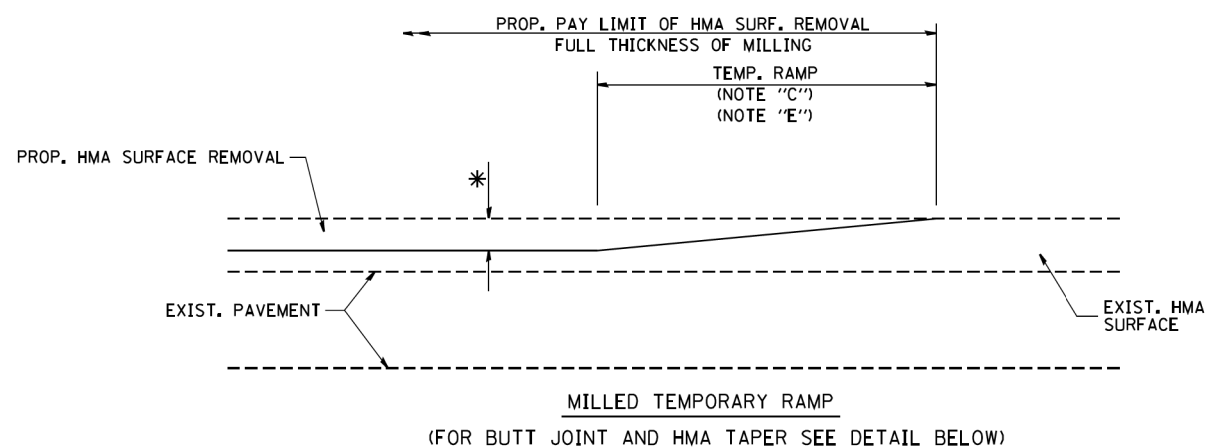
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		CHECKED -	REVISED - R. BORO 09-04-07
		DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

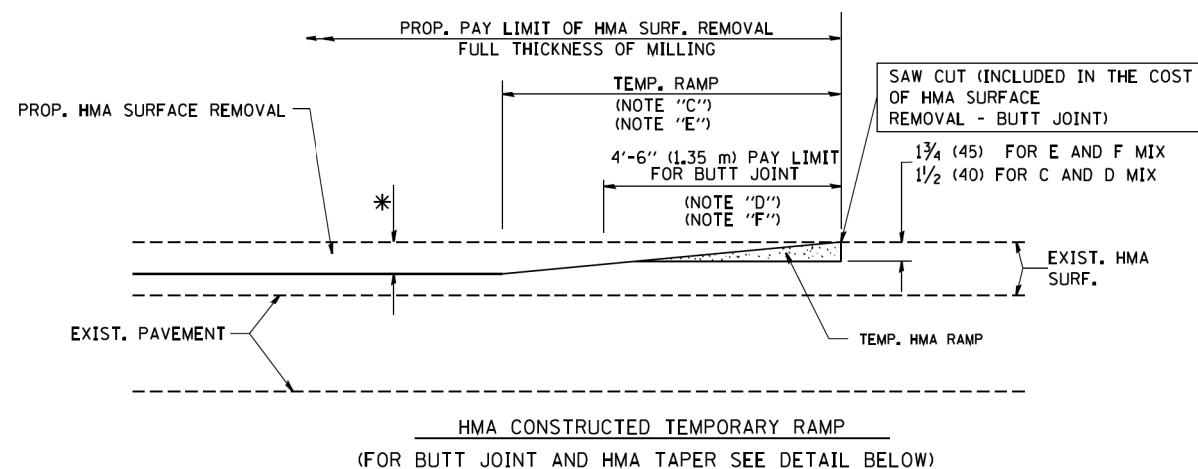
**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	184
BD400-04 (BD-22)			CONTRACT NO. 60Y25	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

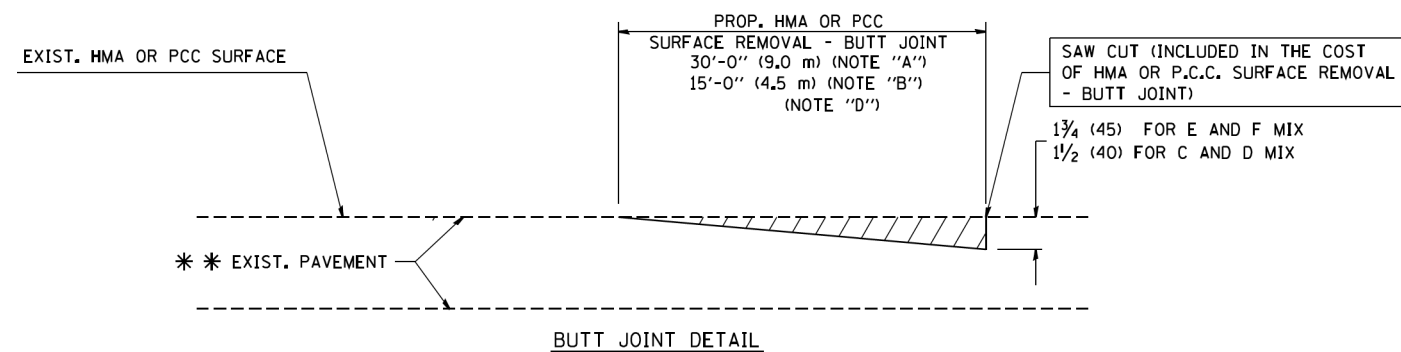


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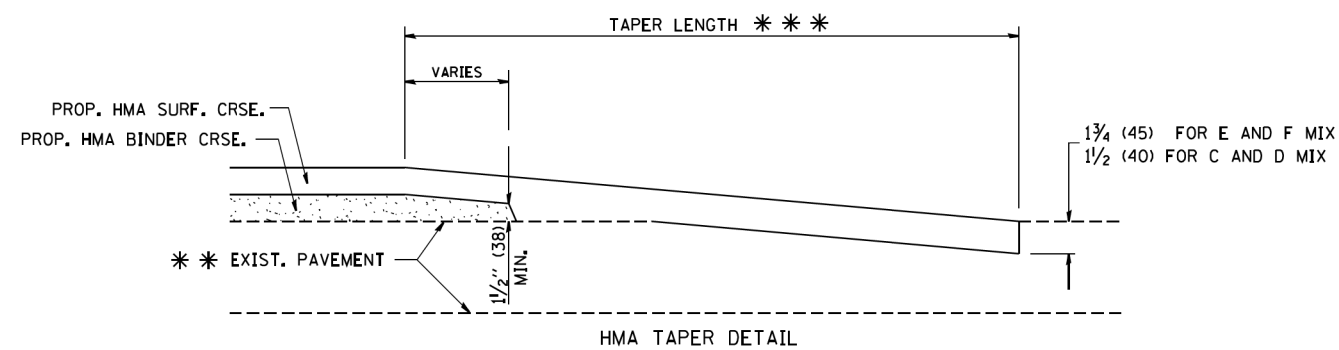


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

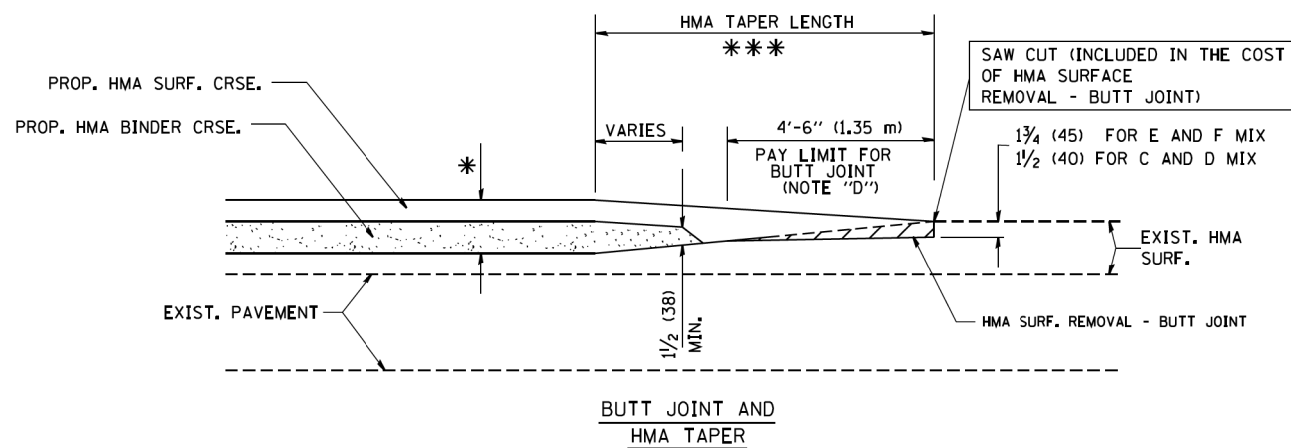
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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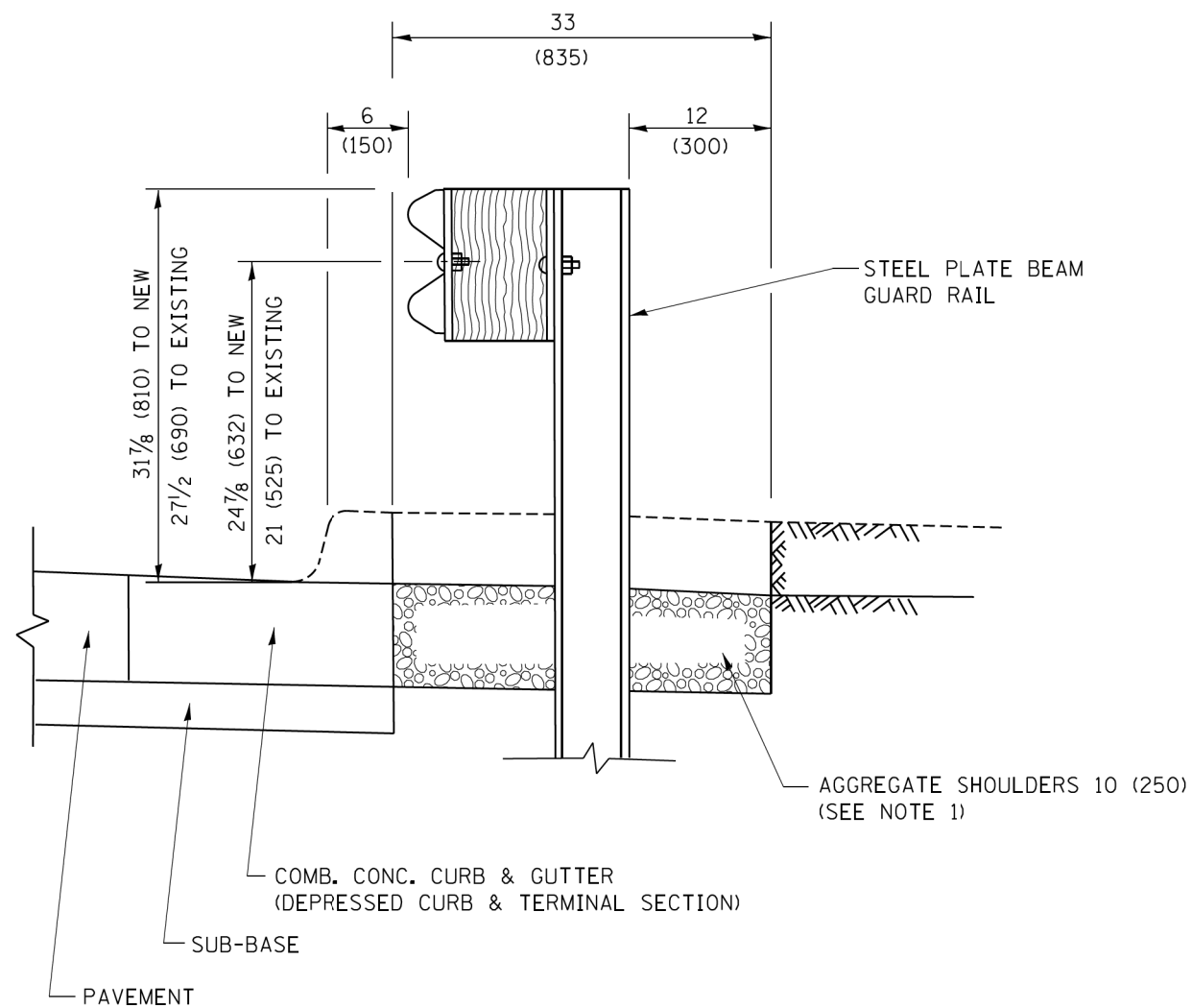
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

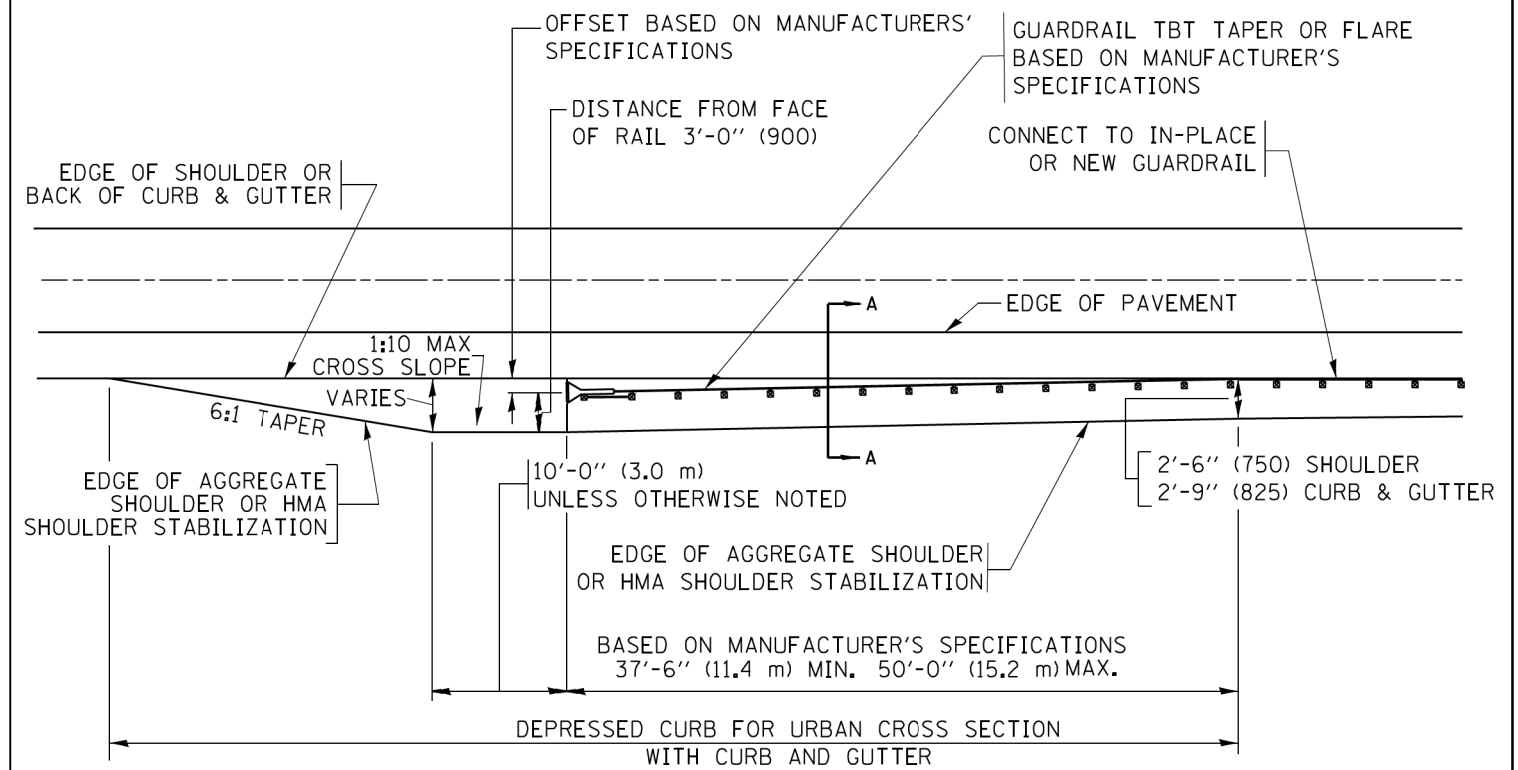
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344	3114-N(14)	COOK	225	185
BD400-05 BD32		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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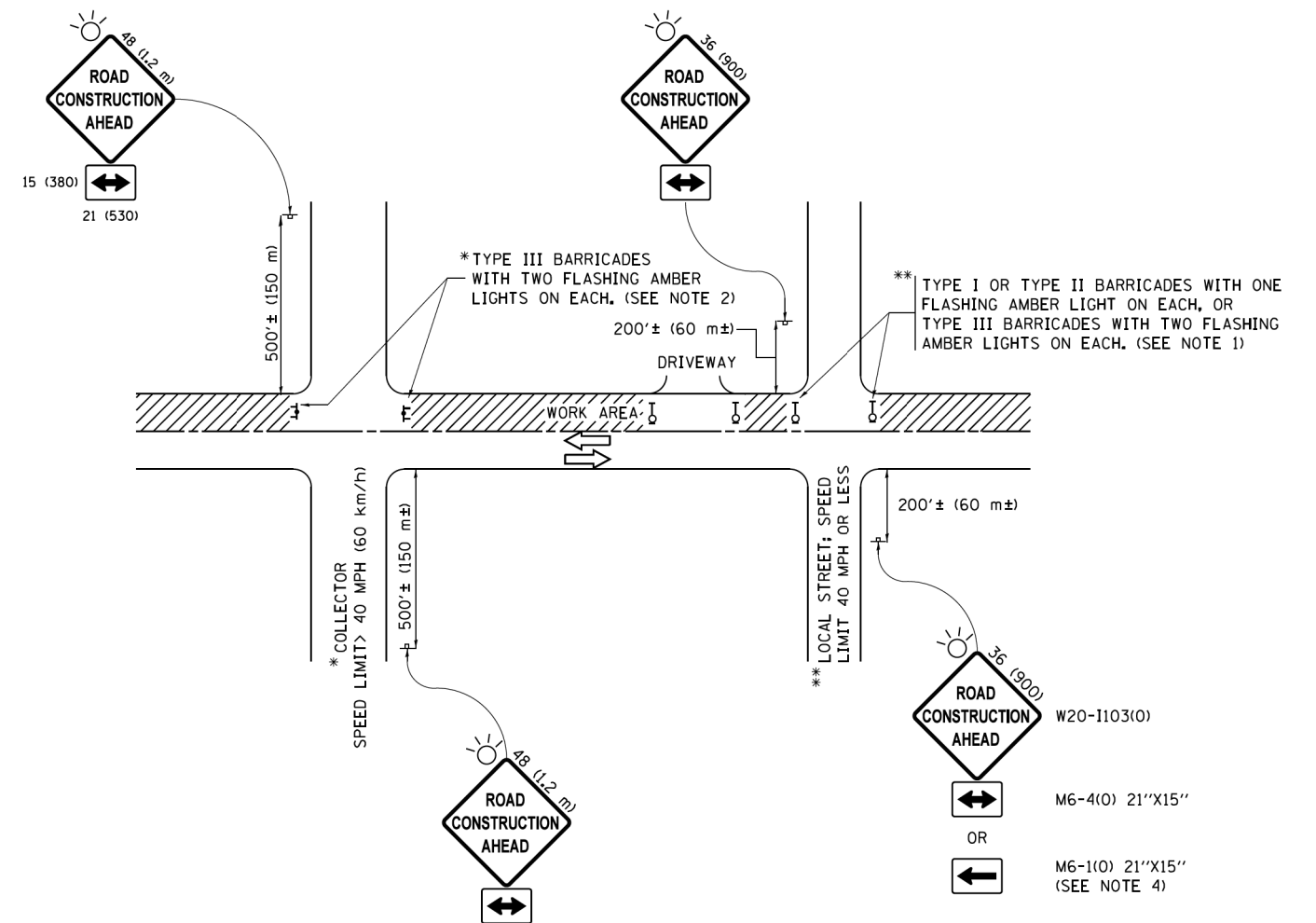
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	186
BD600-10 (BD 34)		CONTRACT NO. 60Y25		
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

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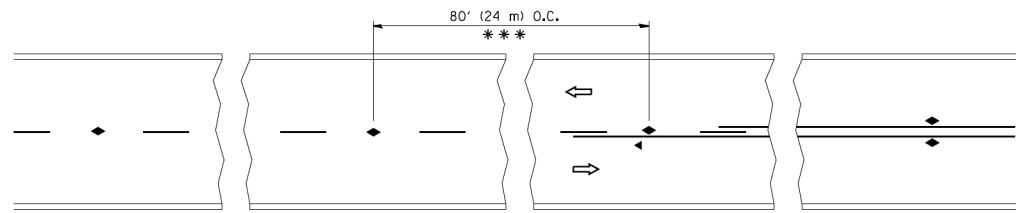
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	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

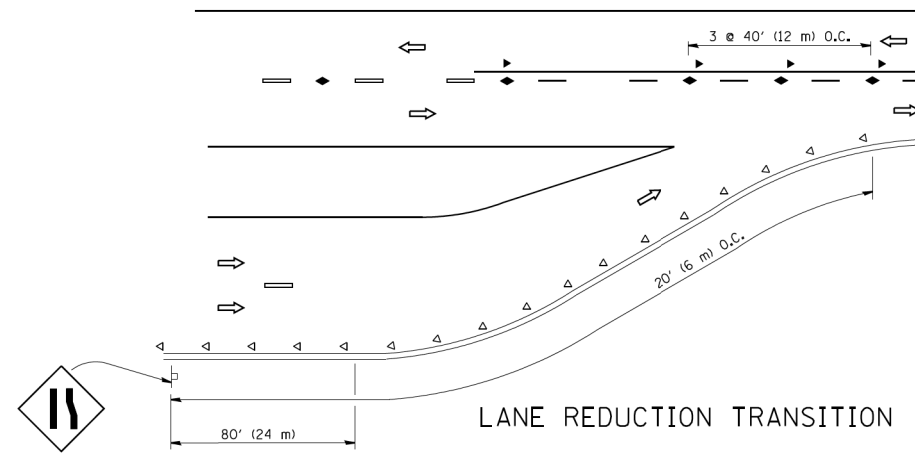
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344	3114-N(14)	COOK	225	187
TC-10			CONTRACT NO. 60Y25	
ILLINOIS FED. AID PROJECT				

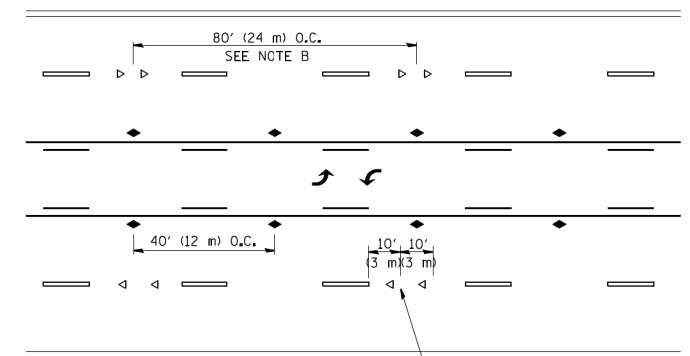


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

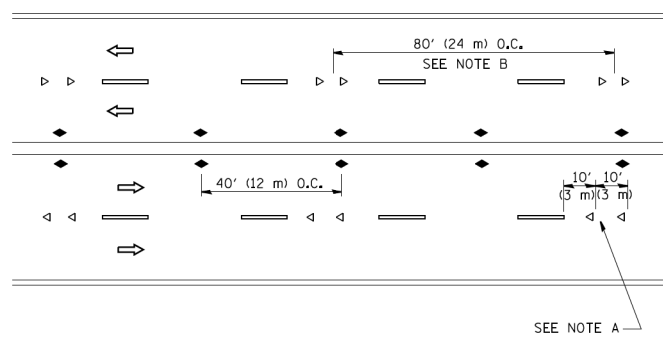
TWO-LANE/TWO-WAY



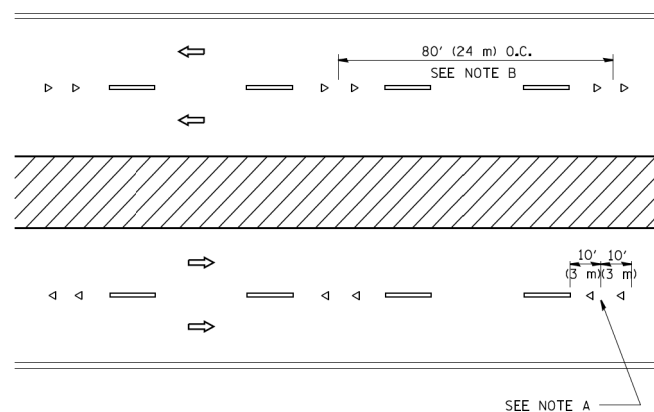
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

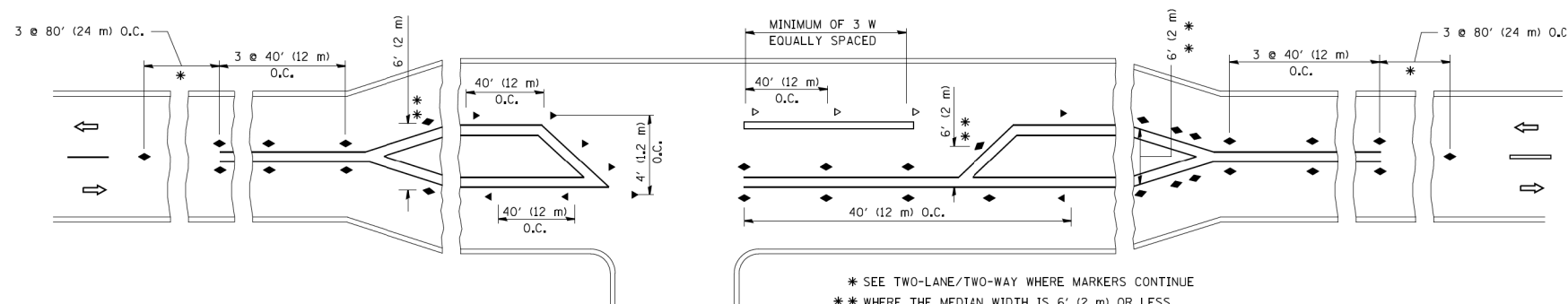
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT DATE = 3/2/2011		DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	188
TC-11			CONTRACT NO. 60Y25	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

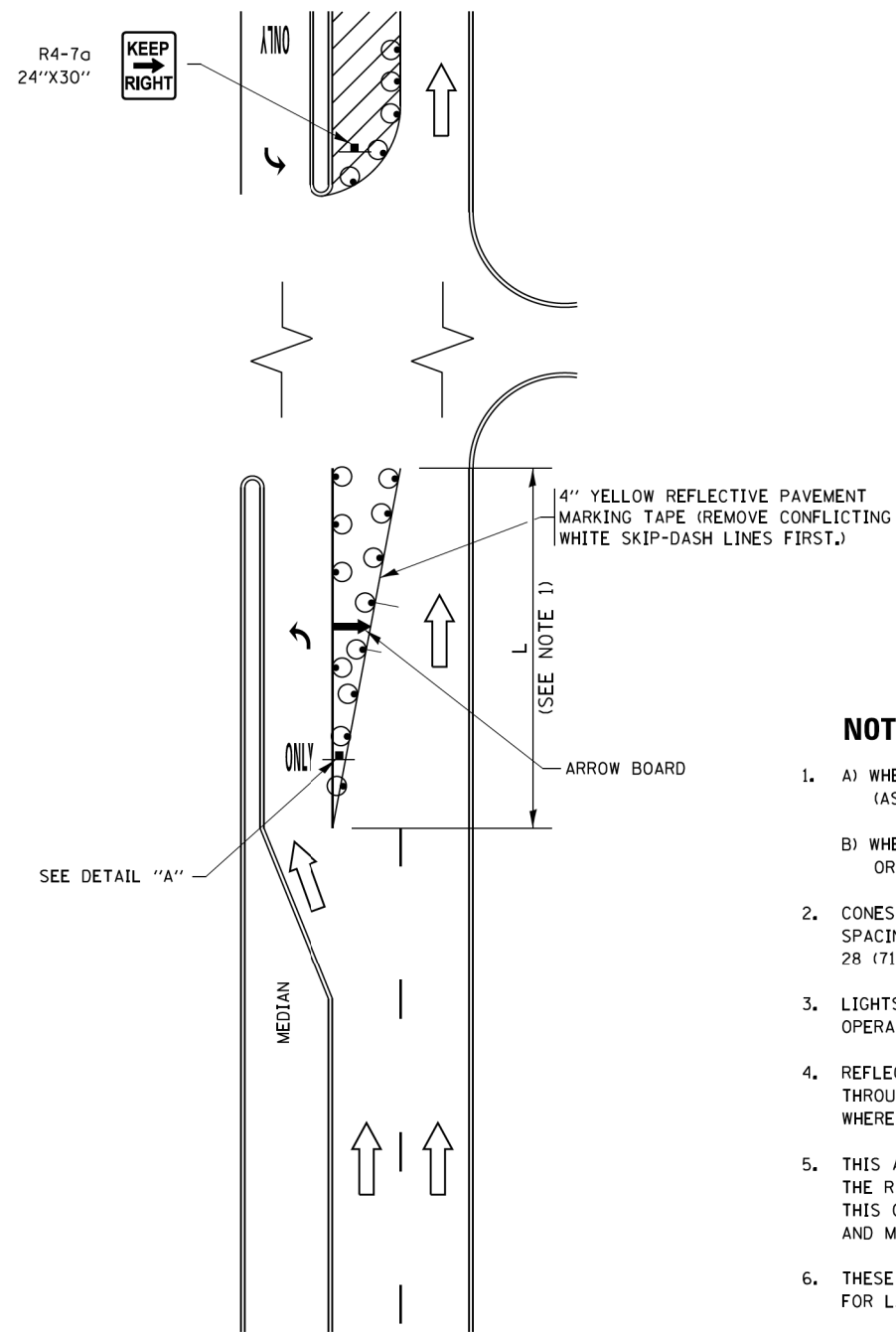


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

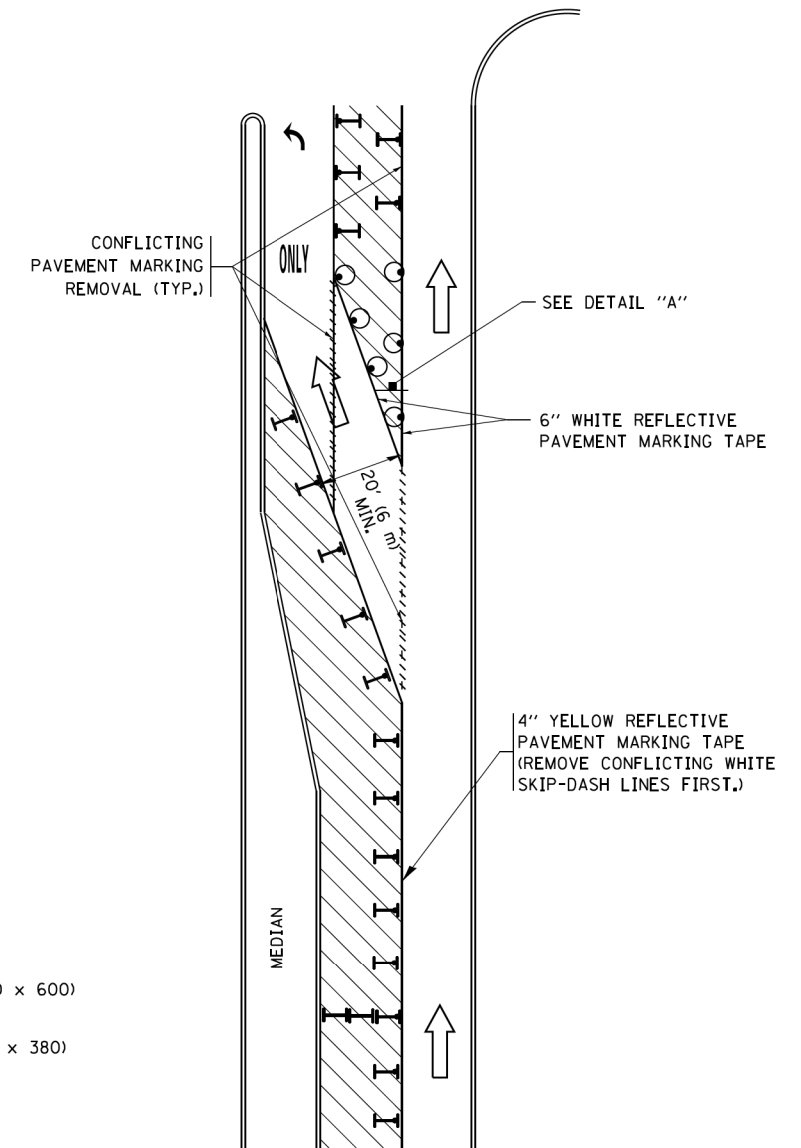


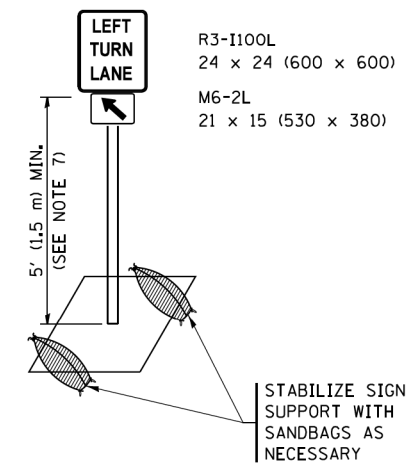
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PRE REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

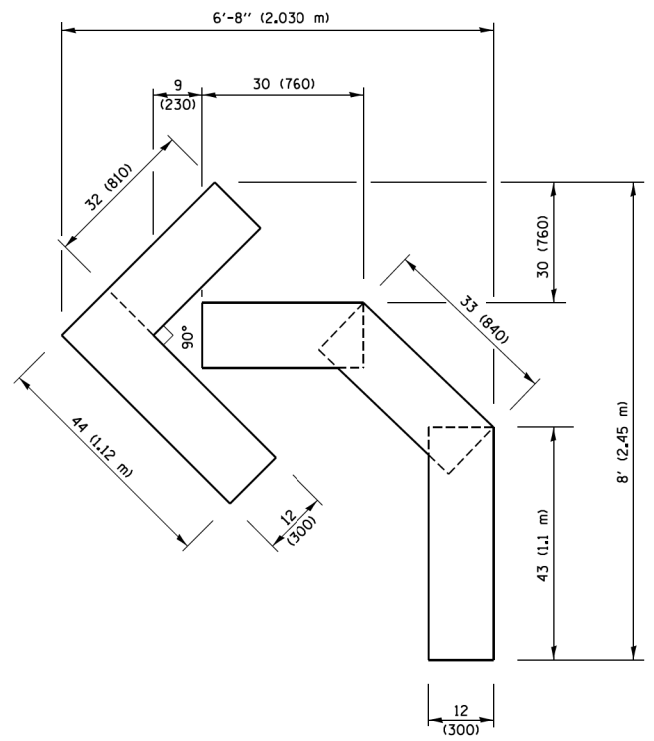


DETAIL A

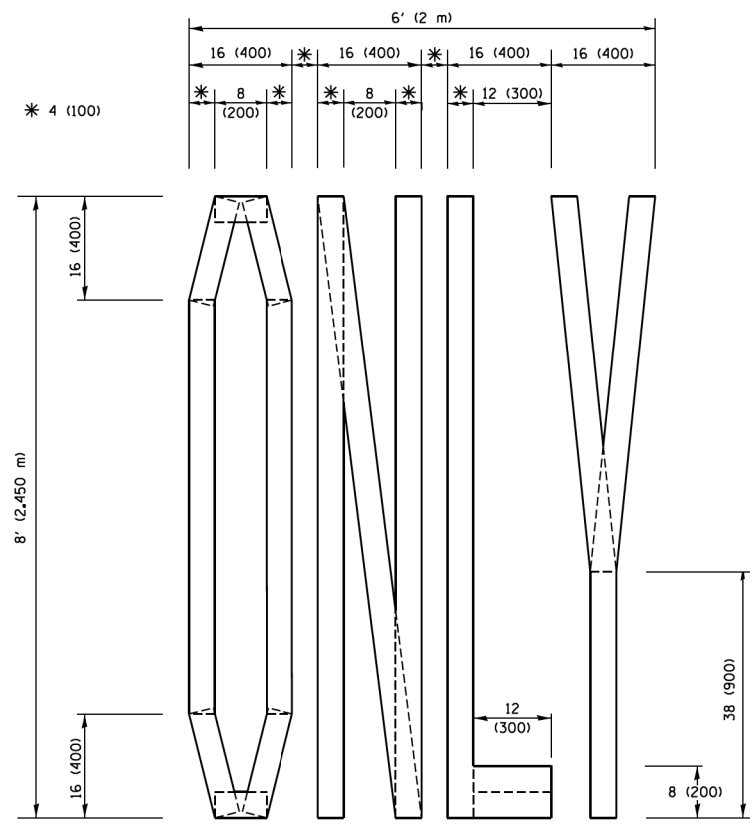
All dimensions are in inches (millimeters) unless otherwise shown.

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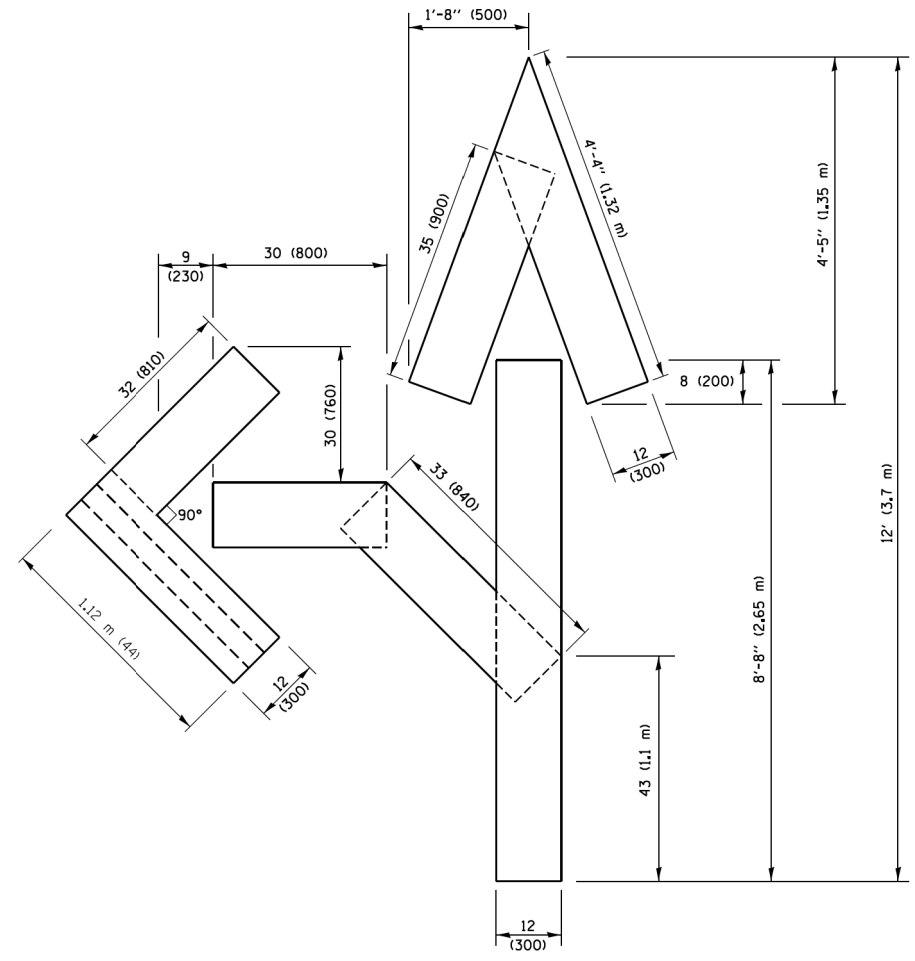
FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 50.0000 / 1 in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16					344	3114-N(14)	COOK	225	190	
	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	TC-14			CONTRACT NO. 60Y25
										ILLINOIS FED. AID PROJECT			



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

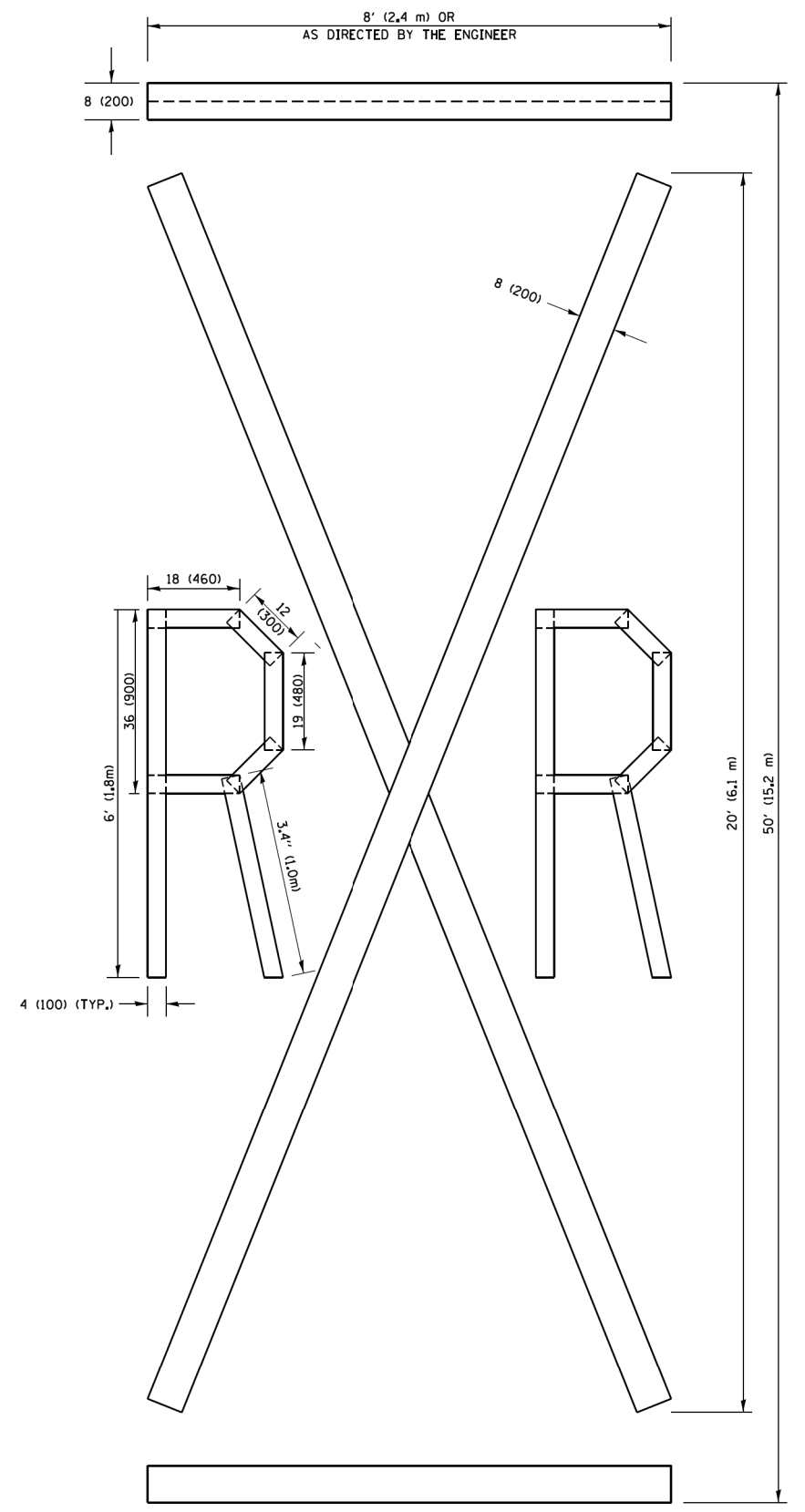


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

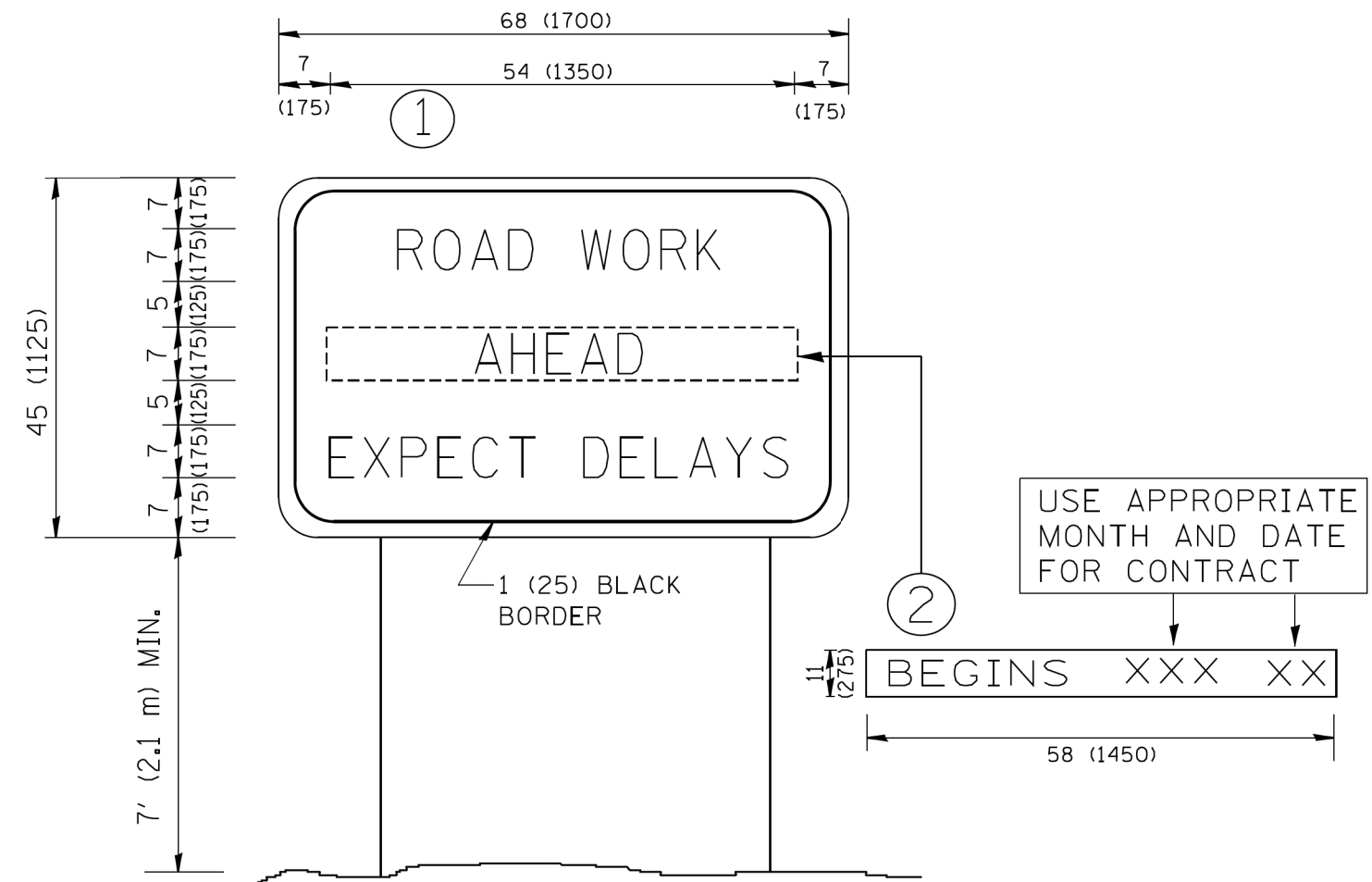
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p:\1\1084EBID\INTEG\111nois.gov\PI00T\Documents\DOT Offices\District 1\Projects\Dist 5\DRAWN\CADDData\CADsheets\16.dgn		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE -	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	191
TC-16		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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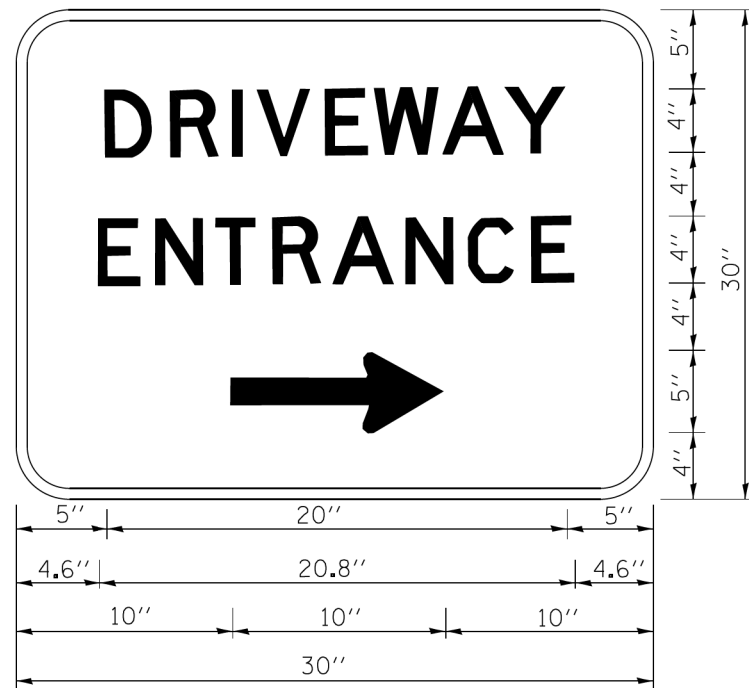
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		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	192
TC-22		CONTRACT NO. 60Y25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = D:\60Y25-shr-distatd\26.dgn

FILE NAME =	USER NAME = geglano	DESIGNED -	REVISED - C. JUCIUS 02-15-07
et\pw_work\pwt-dot\gaglano\0108315\to26.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.000' / 1in.		CHECKED -	REVISED -
PLOT DATE = 12/13/2012		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

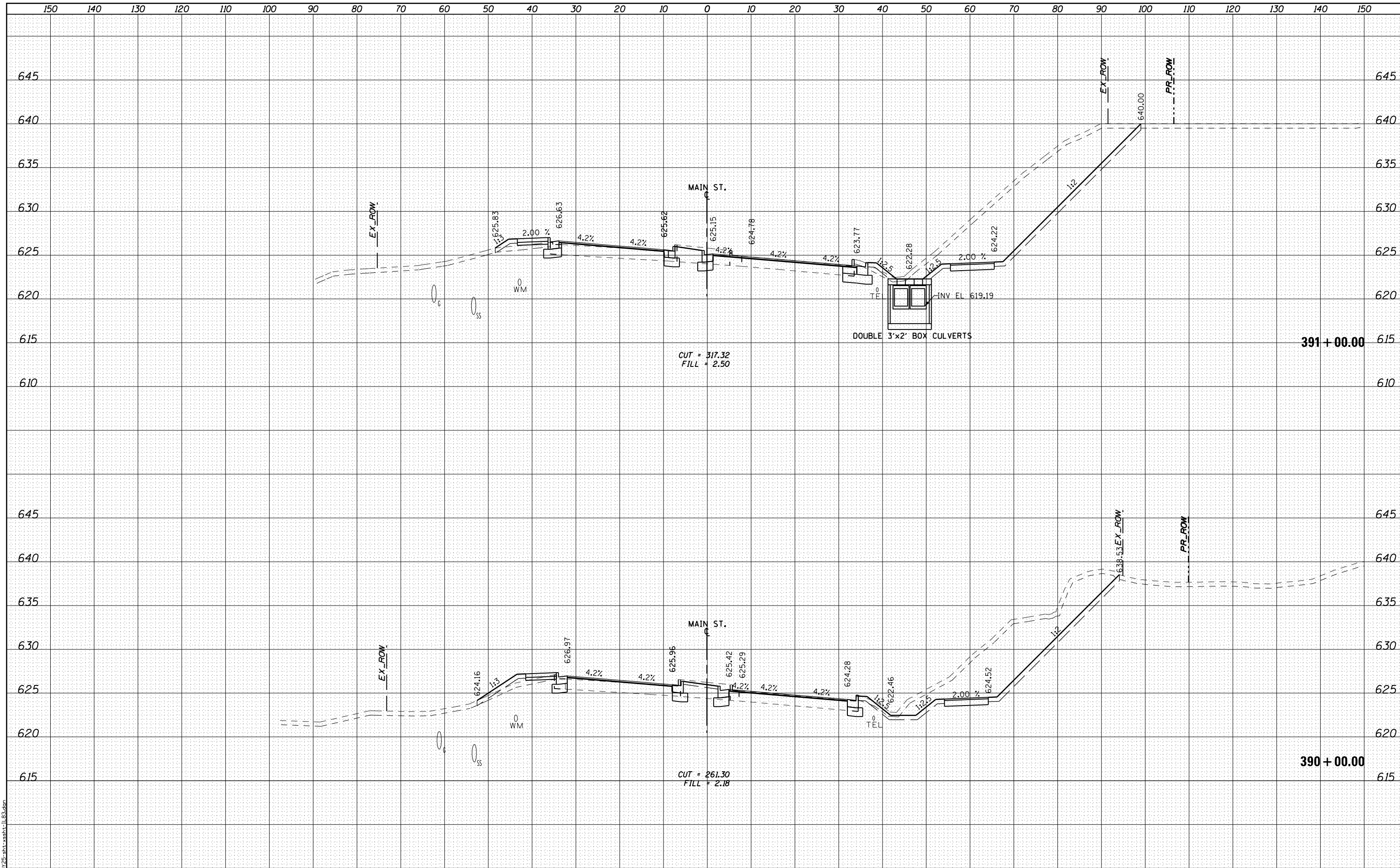
DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	193
TC-26			CONTRACT NO. 60Y25	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME = D:\6725-ahh-xsh-t-1183.dgn

RME Rubinos & Mesa Engineers, Inc.
200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2462

USER NAME =	v Alvarez
PLOT SCALE =	20.0000' / in.
PLOT DATE =	8/19/2017

DESIGNED -	FA
DRAWN -	PK
CHECKED -	MF
DATE -	2/1/2017

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

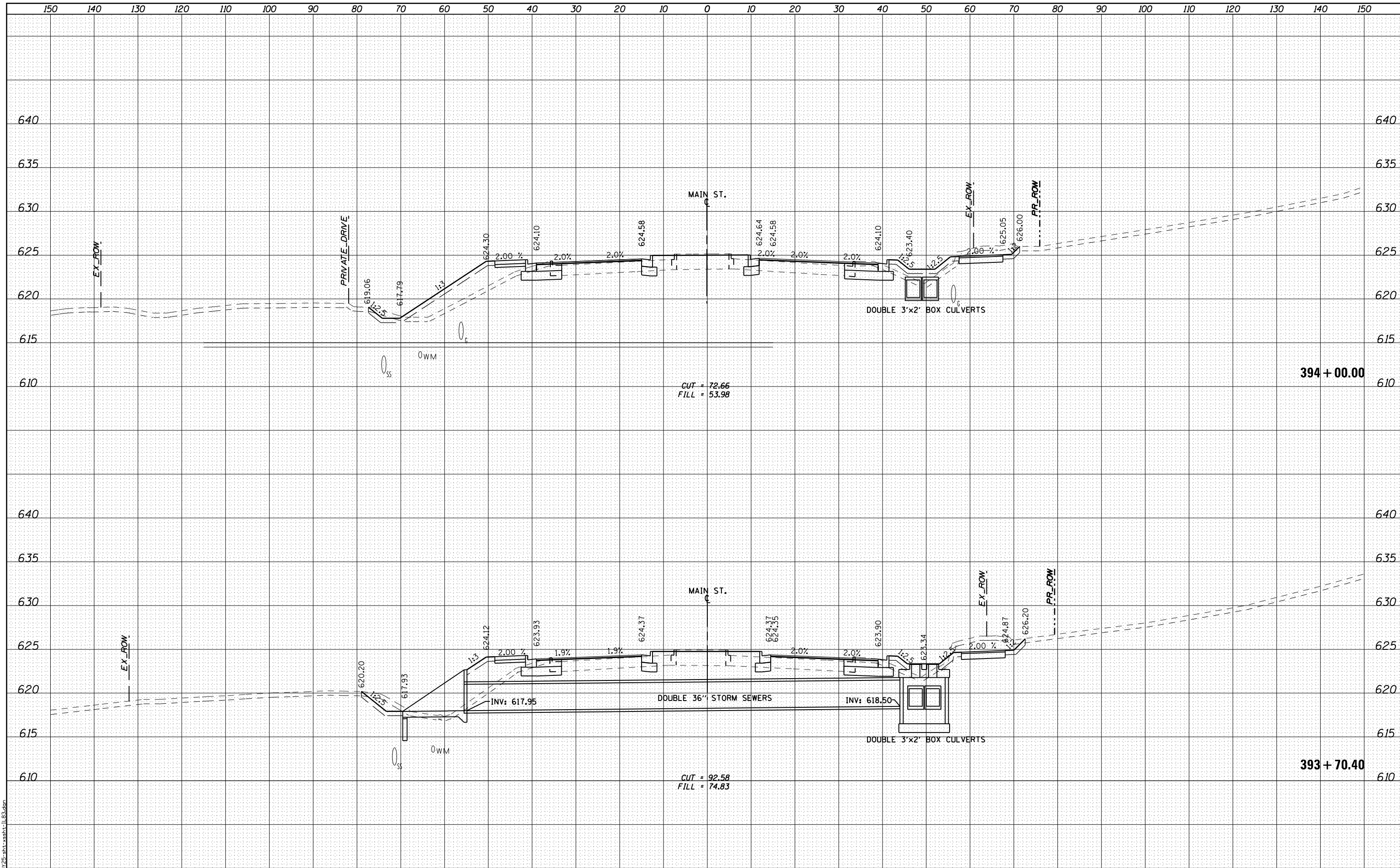
**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
CROSS SECTION - ILLINOIS ROUTE 83**

SCALE: 1" = 10' (H) 1" = 5' (V) SHEET NO. 2 OF 16 SHEETS STA. 390+00.00 TO STA. 391+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	195
CONTRACT NO.			60Y25	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



RME Rubinos & Mesa Engineers, Inc.
 200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2462

USER NAME	= VALVAREZ
DESIGNED	- FA
DRAWN	- PK
CHECKED	- MF
DATE	- 2/1/2017

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

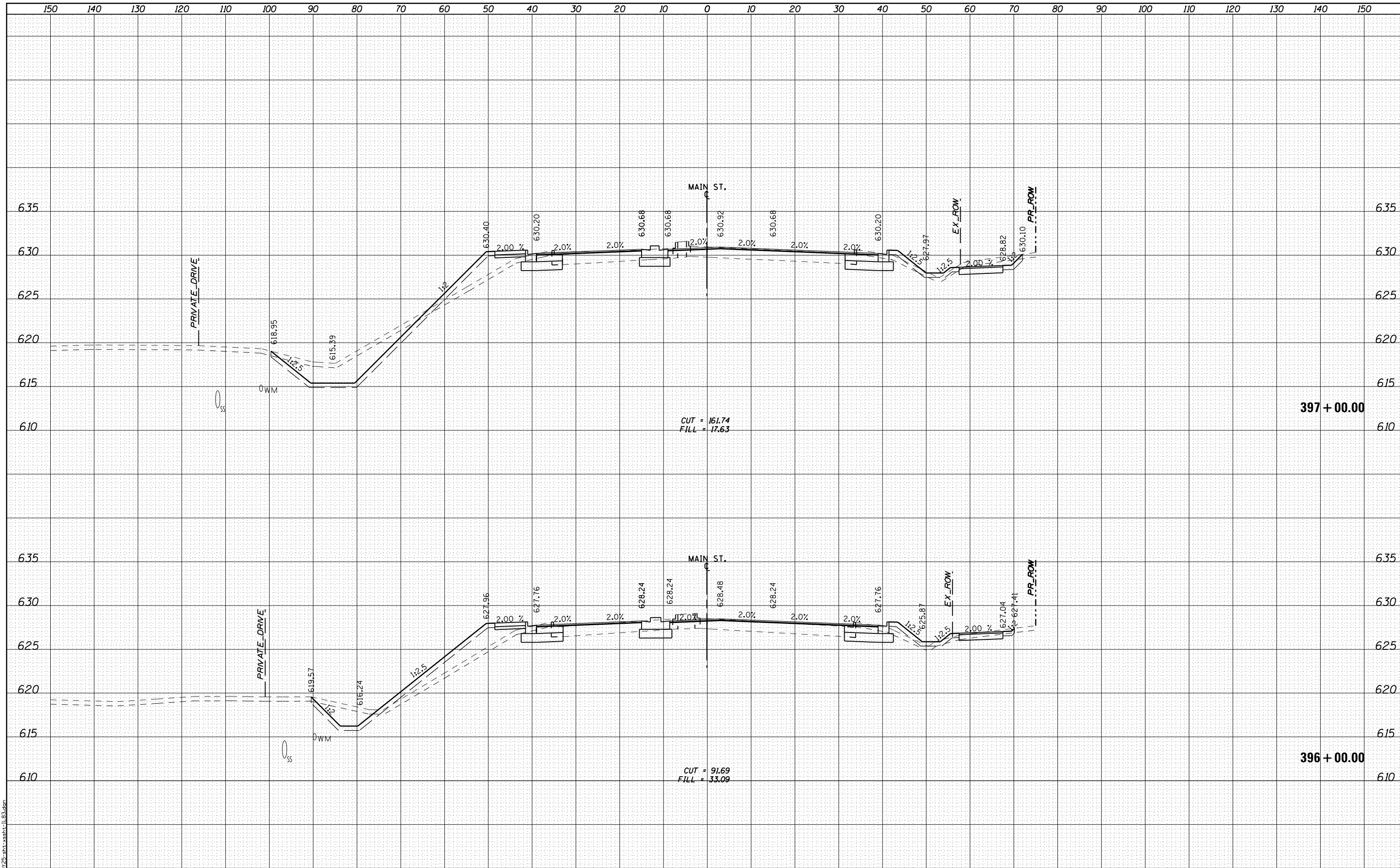
**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
CROSS SECTION - ILLINOIS ROUTE 83**

SCALE: 1" = 10' (H) / 1" = 5' (V) SHEET NO. 5 OF 16 SHEETS STA. 393+70.40 TO STA. 394+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	198
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60Y25	

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



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RME Rubinos & Mesa Engineers, Inc.
 200 S. Michigan Avenue, Suite 1500, Chicago, IL 60604-2462

USER NAME =	vai@rme.com
DESIGNED -	FA
DRAWN -	PK
CHECKED -	MF
DATE -	2/1/2017

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 83 AT IL ROUTE 171 (ARCHER AVE)
CROSS SECTION - ILLINOIS ROUTE 83**

SCALE: 1" = 10' (H) 1" = 5' (V) SHEET NO. 7 OF 16 SHEETS STA. 396+00.00 TO STA. 397+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	3114-N(14)	COOK	225	200
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60Y25	