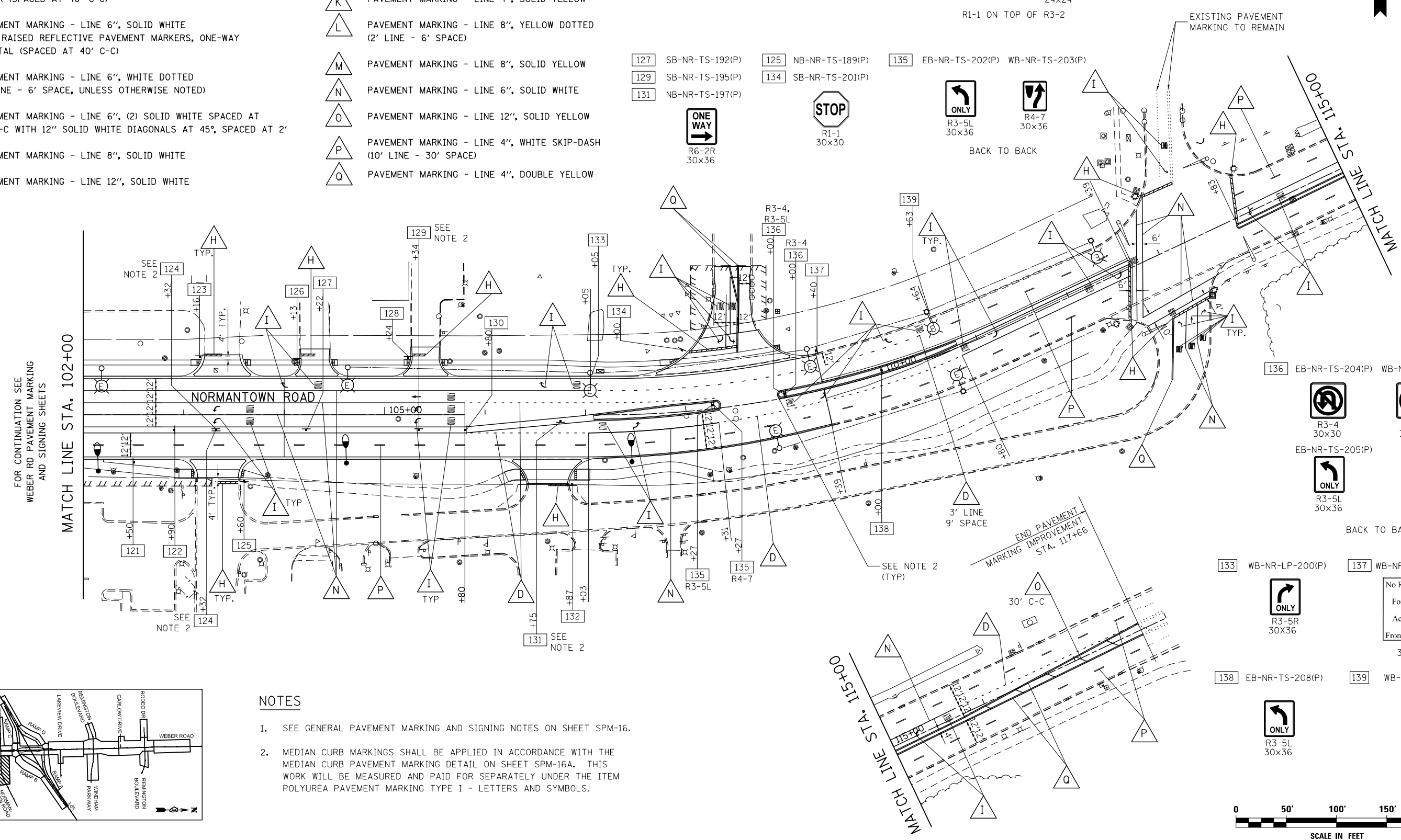


PAVEMENT MARKING LEGEND

- | | |
|---|---|
| A PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED) | H PAVEMENT MARKING - LINE 24", SOLID WHITE |
| B PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C) | I PAVEMENT MARKING, LETTERS & SYMBOLS |
| C PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C) | J PAVEMENT MARKING - LINE 4", SOLID WHITE |
| D PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED) | K PAVEMENT MARKING - LINE 4", SOLID YELLOW |
| E PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2' | L PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE) |
| F PAVEMENT MARKING - LINE 8", SOLID WHITE | M PAVEMENT MARKING - LINE 8", SOLID YELLOW |
| G PAVEMENT MARKING - LINE 12", SOLID WHITE | N PAVEMENT MARKING - LINE 6", SOLID WHITE |
| | O PAVEMENT MARKING - LINE 12", SOLID YELLOW |
| | P PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) |
| | Q PAVEMENT MARKING - LINE 4", DOUBLE YELLOW |

- | | | | | | |
|---------------------|---------------------|---------------------|-----------------|---------------------|-----------------|
| 121 EB-NR-TS-183(P) | 122 WB-NR-TS-184(P) | 123 SB-NR-TS-185(P) | SB-NR-TS-186(P) | 124 NB-NR-TS-187(P) | SB-NR-TS-188(P) |
| | | | | | |
| R2-1
24x30 | R3-8
36x36 | R1-1
30x30 | R3-2
24x24 | R6-2R
30x36 | R6-2R
30x36 |

- | | | | |
|---------------------|---------------------|---------------------|-----------------|
| 127 SB-NR-TS-192(P) | 125 NB-NR-TS-189(P) | 135 EB-NR-TS-202(P) | WB-NR-TS-203(P) |
| 129 SB-NR-TS-195(P) | 134 SB-NR-TS-201(P) | | |
| 131 NB-NR-TS-197(P) | | R3-5L
30x36 | R4-7
30x36 |



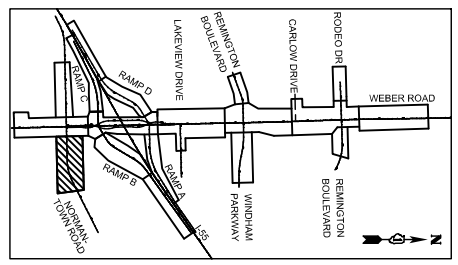
FOR CONTINUATION SEE WEBER RD PAVEMENT MARKING AND SIGNING SHEETS

MATCH LINE STA. 102+00

NORMANTOWN ROAD

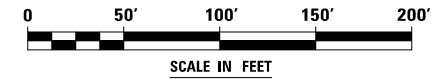
END PAVEMENT MARKING IMPROVEMENT STA. 117+66

MATCH LINE STA. 115+00



- NOTES**
- SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.
 - MEDIAN CURB MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MEDIAN CURB PAVEMENT MARKING DETAIL ON SHEET SPM-16A. THIS WORK WILL BE MEASURED AND PAID FOR SEPARATELY UNDER THE ITEM POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS.

- | | | | |
|---------------------|--------------------------|----------------|--|
| 133 WB-NR-LP-200(P) | 137 WB-NR-TS-207(REMAIN) | | No Right Turn For Trucks Access On Frontage Road 30x30 |
| 138 EB-NR-TS-208(P) | 139 WB-NR-LP-209(P) | | |
| | | R3-5R
30X36 | R3-7R
30x30 |



FILE NAME = D:\60X10-shr-25-pmk-08-Normantown.dgn

THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgr.com

USER NAME = mmaestro
PLOT SCALE = 1:100
PLOT DATE = 5/13/2017

DESIGNED BAB
DRAWN CJD
CHECKED MAK
DATE 05/12/17

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING
NORMANTOWN ROAD**

SCALE: AS SHOWN SHEET NO. 2 OF 2 SHEETS STA. 102+00 TO STA. 112+69

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	701
SPM-26			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

140 EB-WP-LP-210(P) 141 NB-WP-TS-211(P) 142 NB-WP-TS-212(P) 144 EB-WP-TS-215(P) WB-WP-TS-216(P) 145 EB-WP-TS-217(P) 146 SB-WP-TS-218(P)

143 EB-WP-LP-214(P)
147 EB-WP-LP-220(P)

NO PARKING ANY TIME
R7-1
12x18

ONE WAY
R6-2R
30x36

STOP
R1-1
30x30
NB-WP-TS-213(P)

R3-4
36x36

ONLY ONLY
R3-8
36x36

SPEED LIMIT 35
R2-1
24x30

STOP
R1-1
30x30
SB-WP-TS-219(P)

R3-2
24x24

148 WB-WP-TS-221(P)
TO
M4-5
24x12

WB-WP-TS-222(P)
55
MI-1.2
24x24

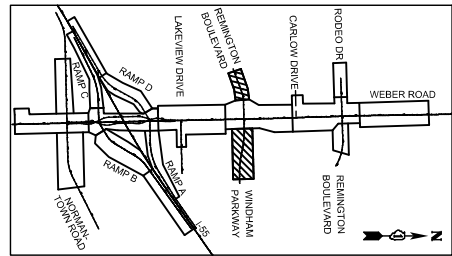
WB-WP-TS-223(P)
M6-1 (L)
21x15

149 EB-RW-TS-224(P)
ONLY ONLY ONLY
R3-8
48x30

150 WB-RW-TS-225(P)
153 EB-RW-LP-228(P)
R4-7
24x30

148A NB-WP-TS-223A(P)
151 SB-RW-TS-226(P)
152 NB-RW-TS-227(P)

STOP
R1-1
30x30



FOR CONTINUATION SEE WEBER RD PAVEMENT MARKING AND SIGNING SHEETS

MATCH LINE STA. 302+00

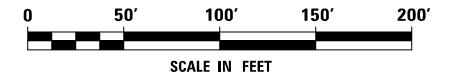
POLYUREA PMK THERMOPLASTIC PMK

PAVEMENT MARKING LEGEND

- A PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)
- B PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)
- C PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)
- D PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)
- E PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'
- F PAVEMENT MARKING - LINE 8", SOLID WHITE
- G PAVEMENT MARKING - LINE 12", SOLID WHITE
- H PAVEMENT MARKING - LINE 24", SOLID WHITE
- I PAVEMENT MARKING, LETTERS & SYMBOLS
- J PAVEMENT MARKING - LINE 4", SOLID WHITE
- K PAVEMENT MARKING - LINE 4", SOLID YELLOW
- L PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)
- M PAVEMENT MARKING - LINE 8", SOLID YELLOW
- N PAVEMENT MARKING - LINE 6", SOLID WHITE
- O PAVEMENT MARKING - LINE 12", SOLID YELLOW
- P PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)
- Q PAVEMENT MARKING - LINE 4", DOUBLE YELLOW

NOTES

- SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.
- MEDIAN CURB MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MEDIAN CURB PAVEMENT MARKING DETAIL ON SHEET SPM-16A. THIS WORK WILL BE MEASURED AND PAID FOR SEPARATELY UNDER THE ITEM POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS.



FILE NAME = D:\60X10-shr-27-pmk-09_Mrindham.dgn

THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgr.com

USER NAME = mmaestro
DESIGNED BAB
DRAWN CJD
CHECKED MAK
DATE 05/12/17

REVISED -
REVISED -
REVISED -
REVISED -

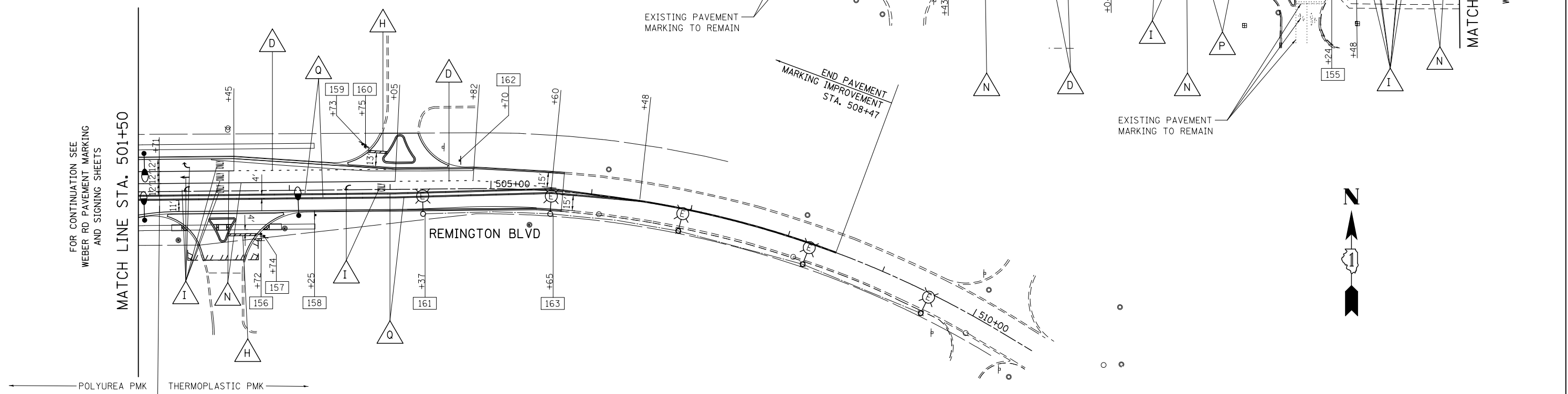
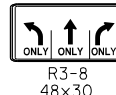
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING
REMINGTON BLVD - WINDHAM PARKWAY

SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 302+00 TO STA. 311+33

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	702
SPM-27			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

- 154 SB-RR-LP-229(REMAIN)
- 155 NB-RR-TS-230(REMAIN)
- 156 NB-RE-TS-231(P)
- 160 SB-RE-TS-235(P)
- 157 NB-RE-TS-232(P)
- 159 SB-RE-TS-234(P)
- 162 WB-RE-TS-237(P)
- 158 EB-RE-TS-233(P)
- 163 EB-RE-LP-238(P)
- 161 EB-RE-LP-236(P)



FOR CONTINUATION SEE
WEBER RD PAVEMENT MARKING
AND SIGNING SHEETS

MATCH LINE STA. 501+50

MATCH LINE STA. 496+50

FOR CONTINUATION SEE
WEBER RD PAVEMENT MARKING
AND SIGNING SHEETS

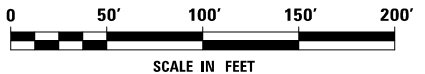
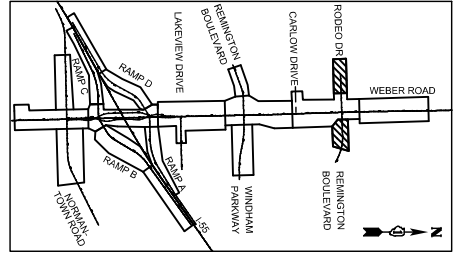


PAVEMENT MARKING LEGEND

- A** PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)
- B** PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)
- C** PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)
- D** PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)
- E** PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'
- F** PAVEMENT MARKING - LINE 8", SOLID WHITE
- G** PAVEMENT MARKING - LINE 12", SOLID WHITE
- H** PAVEMENT MARKING - LINE 24", SOLID WHITE
- I** PAVEMENT MARKING, LETTERS & SYMBOLS
- J** PAVEMENT MARKING - LINE 4", SOLID WHITE
- K** PAVEMENT MARKING - LINE 4", SOLID YELLOW
- L** PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)
- M** PAVEMENT MARKING - LINE 8", SOLID YELLOW
- N** PAVEMENT MARKING - LINE 6", SOLID WHITE
- O** PAVEMENT MARKING - LINE 12", SOLID YELLOW
- P** PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)
- Q** PAVEMENT MARKING - LINE 4", DOUBLE YELLOW

NOTES

1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.
2. MEDIAN CURB MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE MEDIAN CURB PAVEMENT MARKING DETAIL ON SHEET SPM-16A. THIS WORK WILL BE MEASURED AND PAID FOR SEPARATELY UNDER THE ITEM POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS.



FILE NAME = D:\60X10-shr-28-pmk-10_Rodeo.dgn

THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgr.com

USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:100	DRAWN CJD	REVISED -
PLOT DATE = 5/13/2017	CHECKED MAK	REVISED -
	DATE 05/12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING
RODEO DR - REMINGTON BLVD**

SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 490+63 TO STA. 507+67

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	703
SPM-28			CONTRACT NO. 60X10	
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				

PERFORMED PLASTIC PAVEMENT MARKING
 TYPE B - LINE 5" (GROOVED), WHITE SKIP-DASH
 (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
 ONE-WAY CRYSTAL (SPACED AT 80' C-C)

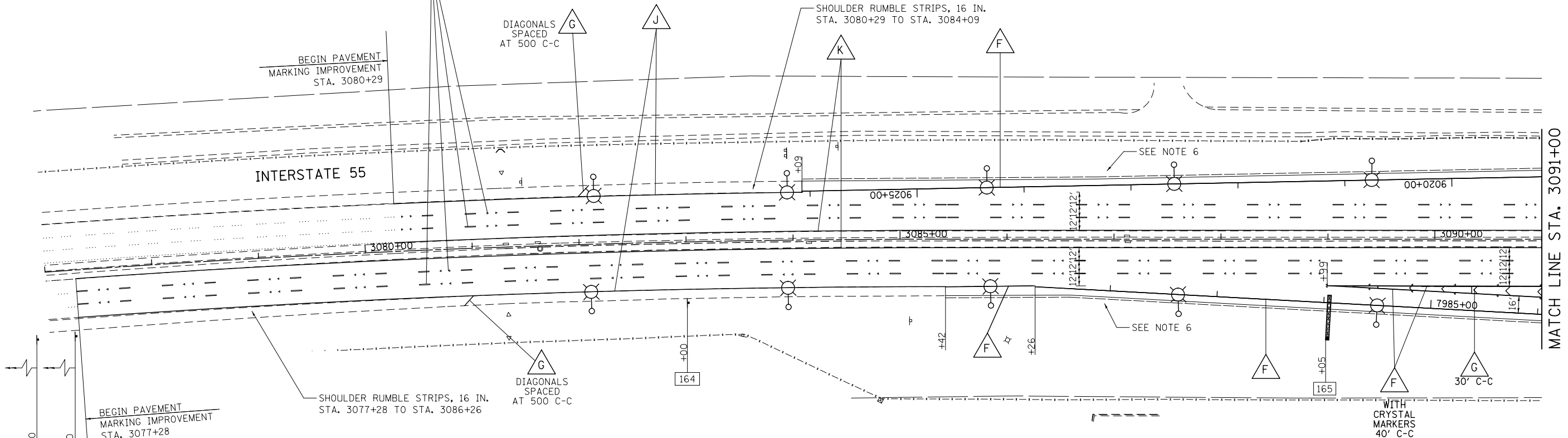
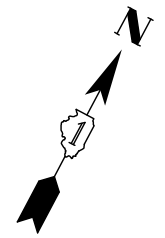
164 EB-RC-WP-239(P) 164A EB-RC-WP-239A(P) 164B EB-RC-WP-239B(P) 165 EB-RC-CL-240(P)

CRASH INVESTIGATION SITE NEXT RIGHT
 60x72
 SEE SIGN PANEL DETAIL

CRASH INVESTIGATION SITE 1/2 MILE
 60x72
 SEE SIGN PANEL DETAIL

CRASH INVESTIGATION SITE 1 MILE
 60x72
 SEE SIGN PANEL DETAIL

EXIT 263
Weber Road ↗
 SEE SIGN STRUCTURE DETAIL SHEET
 PROPOSED SIGN STRUCTURE IC0991055R263.1

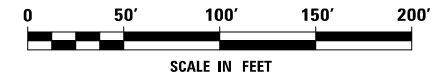
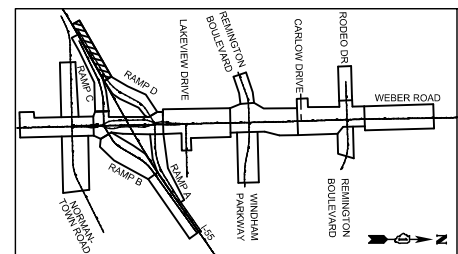


PAVEMENT MARKING LEGEND

- | | | | |
|----------|--|----------|--|
| A | PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED) | H | PAVEMENT MARKING - LINE 24", SOLID WHITE |
| B | PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C) | I | PAVEMENT MARKING, LETTERS & SYMBOLS |
| C | PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C) | J | PAVEMENT MARKING - LINE 4", SOLID WHITE |
| D | PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED) | K | PAVEMENT MARKING - LINE 4", SOLID YELLOW |
| E | PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2' | L | PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE) |
| F | PAVEMENT MARKING - LINE 8", SOLID WHITE | M | PAVEMENT MARKING - LINE 8", SOLID YELLOW |
| G | PAVEMENT MARKING - LINE 12", SOLID WHITE | N | PAVEMENT MARKING - LINE 6", SOLID WHITE |
| | | O | PAVEMENT MARKING - LINE 12", SOLID YELLOW |
| | | P | PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) |
| | | Q | PAVEMENT MARKING - LINE 4", DOUBLE YELLOW |

NOTES

1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-29-pmk-11.185.01.dgn

THE RODERICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 30
 CHICAGO, IL 60607
 www.rodgr.com

USER NAME = mmaestro
 PLOT SCALE = 1:1100
 PLOT DATE = 6/15/2017

DESIGNED BAB
 DRAWN CJD
 CHECKED MAK
 DATE 06/16/17

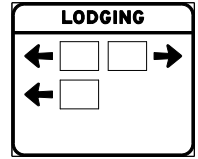
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING - I-55

SCALE: AS SHOWN SHEET NO. 1 OF 6 SHEETS STA. 3077+28 TO STA. 3091+00

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	704
SPM-29			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



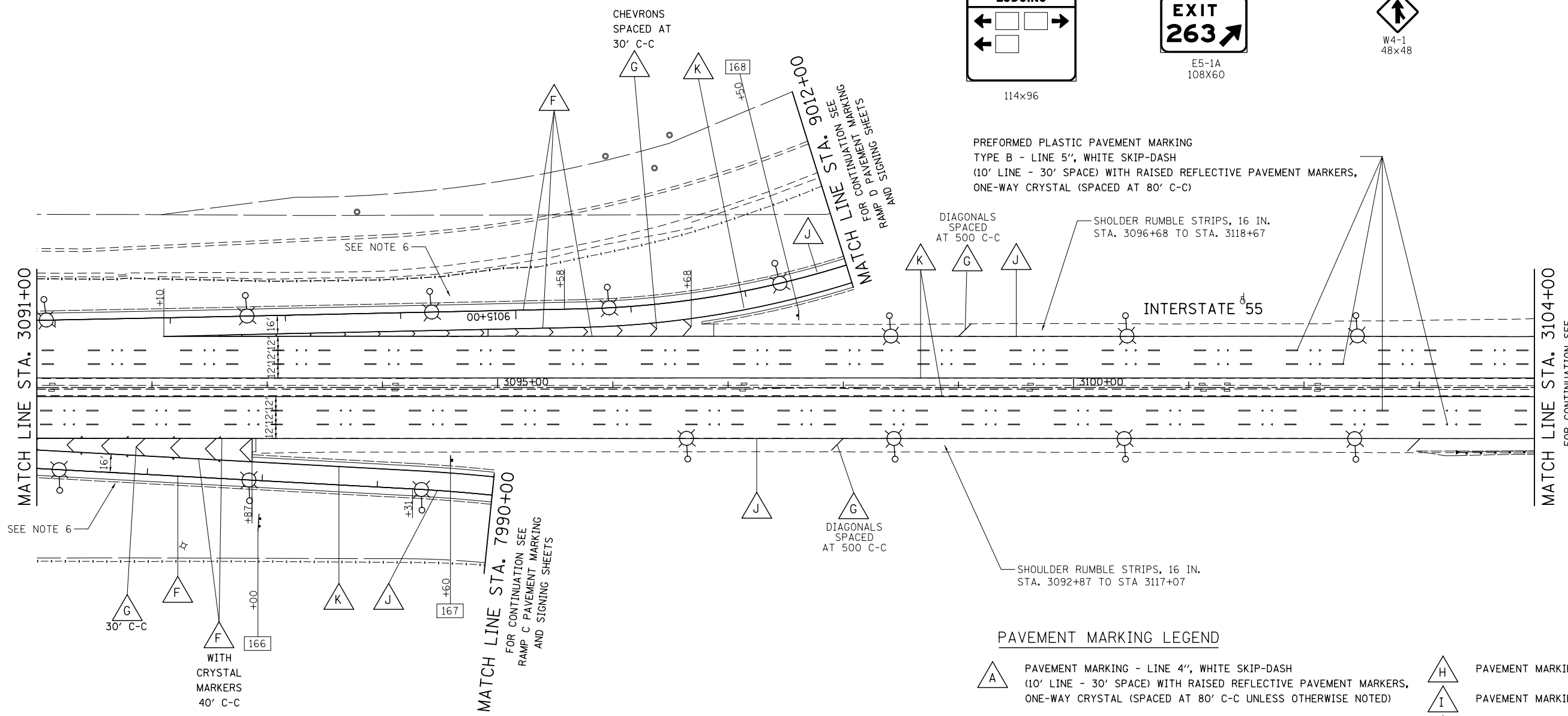
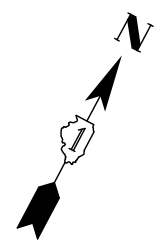
114x96



E5-1A
108X60



W4-1
48x48



PREFORMED PLASTIC PAVEMENT MARKING
TYPE B - LINE 5", WHITE SKIP-DASH
(10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
ONE-WAY CRYSTAL (SPACED AT 80' C-C)

DIAGONALS SPACED AT 500' C-C
SHOULDER RUMBLE STRIPS, 16 IN.
STA. 3096+68 TO STA. 3118+67

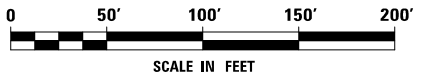
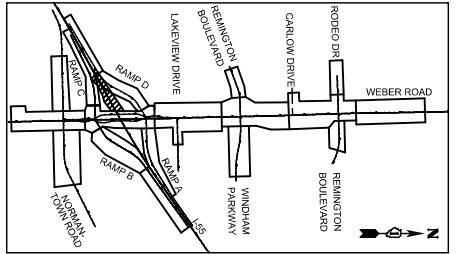
DIAGONALS SPACED AT 500' C-C
SHOULDER RUMBLE STRIPS, 16 IN.
STA. 3092+87 TO STA 3117+07

PAVEMENT MARKING LEGEND

- PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)
- PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)
- PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)
- PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)
- PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'
- PAVEMENT MARKING - LINE 8", SOLID WHITE
- PAVEMENT MARKING - LINE 12", SOLID WHITE
- PAVEMENT MARKING - LINE 24", SOLID WHITE
- PAVEMENT MARKING, LETTERS & SYMBOLS
- PAVEMENT MARKING - LINE 4", SOLID WHITE
- PAVEMENT MARKING - LINE 4", SOLID YELLOW
- PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)
- PAVEMENT MARKING - LINE 8", SOLID YELLOW
- PAVEMENT MARKING - LINE 6", SOLID WHITE
- PAVEMENT MARKING - LINE 12", SOLID YELLOW
- PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)
- PAVEMENT MARKING - LINE 4", DOUBLE YELLOW

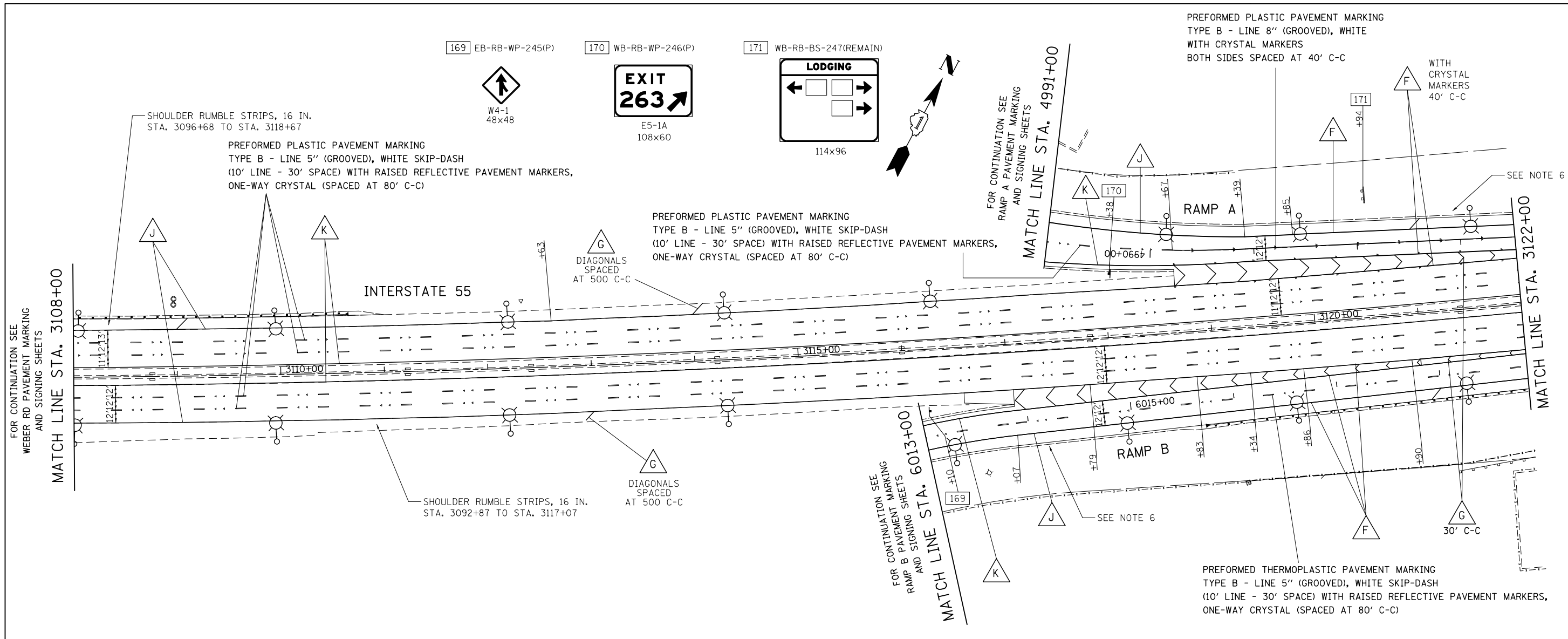
NOTES

1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-30-pmk-12.155.02.dgn

	THE RODERICK GROUP 1327 W WASHINGTON BLVD SUITE 10 CHICAGO, IL 60607 www.rodgr.com	USER NAME = mmaestro PLOT SCALE = 1:100 PLOT DATE = 5/13/2017	DESIGNED BAB DRAWN CJD CHECKED MAK DATE 05/12/17	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING - I-55	SCALE: AS SHOWN SHEET NO. 2 OF 6 SHEETS STA. 3091+00 TO STA. 3014+00	F.A.I/P RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	(99-1HB-1) R-1 WILL 1508 705
	* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT						CONTRACT NO. 60X10 SPM-30		



PREFORMED PLASTIC PAVEMENT MARKING
TYPE B - LINE 8" (GROOVED), WHITE
WITH CRYSTAL MARKERS
BOTH SIDES SPACED AT 40' C-C

WITH
CRYSTAL
MARKERS
40' C-C

PREFORMED PLASTIC PAVEMENT MARKING
TYPE B - LINE 5" (GROOVED), WHITE SKIP-DASH
(10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
ONE-WAY CRYSTAL (SPACED AT 80' C-C)

PREFORMED PLASTIC PAVEMENT MARKING
TYPE B - LINE 5" (GROOVED), WHITE SKIP-DASH
(10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
ONE-WAY CRYSTAL (SPACED AT 80' C-C)

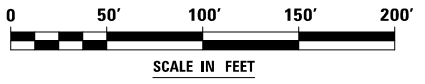
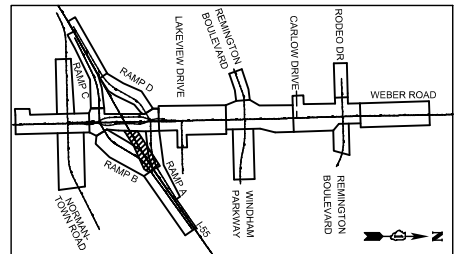
PREFORMED THERMOPLASTIC PAVEMENT MARKING
TYPE B - LINE 5" (GROOVED), WHITE SKIP-DASH
(10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
ONE-WAY CRYSTAL (SPACED AT 80' C-C)

PAVEMENT MARKING LEGEND

- | | | | |
|----------|--|----------|--|
| A | PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED) | H | PAVEMENT MARKING - LINE 24", SOLID WHITE |
| B | PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C) | I | PAVEMENT MARKING, LETTERS & SYMBOLS |
| C | PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C) | J | PAVEMENT MARKING - LINE 4", SOLID WHITE |
| D | PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED) | K | PAVEMENT MARKING - LINE 4", SOLID YELLOW |
| E | PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2' | L | PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE) |
| F | PAVEMENT MARKING - LINE 8", SOLID WHITE | M | PAVEMENT MARKING - LINE 8", SOLID YELLOW |
| G | PAVEMENT MARKING - LINE 12", SOLID WHITE | N | PAVEMENT MARKING - LINE 6", SOLID WHITE |
| | | O | PAVEMENT MARKING - LINE 12", SOLID YELLOW |
| | | P | PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) |
| | | Q | PAVEMENT MARKING - LINE 4", DOUBLE YELLOW |

NOTES

1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-31-pmk-13.155.03.dgn

THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgr.com

USER NAME = mmaestro
PLOT SCALE = 1:1100
PLOT DATE = 5/13/2017

DESIGNED	BAB	REVISED	-
DRAWN	CJD	REVISED	-
CHECKED	MAK	REVISED	-
DATE	05/12/17	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING - I-55

SCALE: AS SHOWN SHEET NO. 3 OF 6 SHEETS STA. 3108+00 TO STA. 3122+00

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	706
SPM-31			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

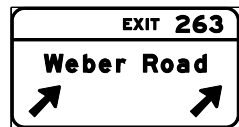
172 WB-RA-CL-248(P)

173 EB-RB-WP-250(REL)

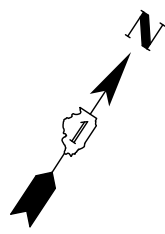
175 EB-RB-BS-252(REMAIN)

176 EB-RB-LP-253(P)

176A NB-RB-LP-254A(P)



PREFORMED PLASTIC PAVEMENT MARKING TYPE B - LINE 8" (GROOVED), WHITE DOTTED (3' LINE - 9' SPACE) WITH CRYSTAL MARKERS SPACED AT 36' C-C



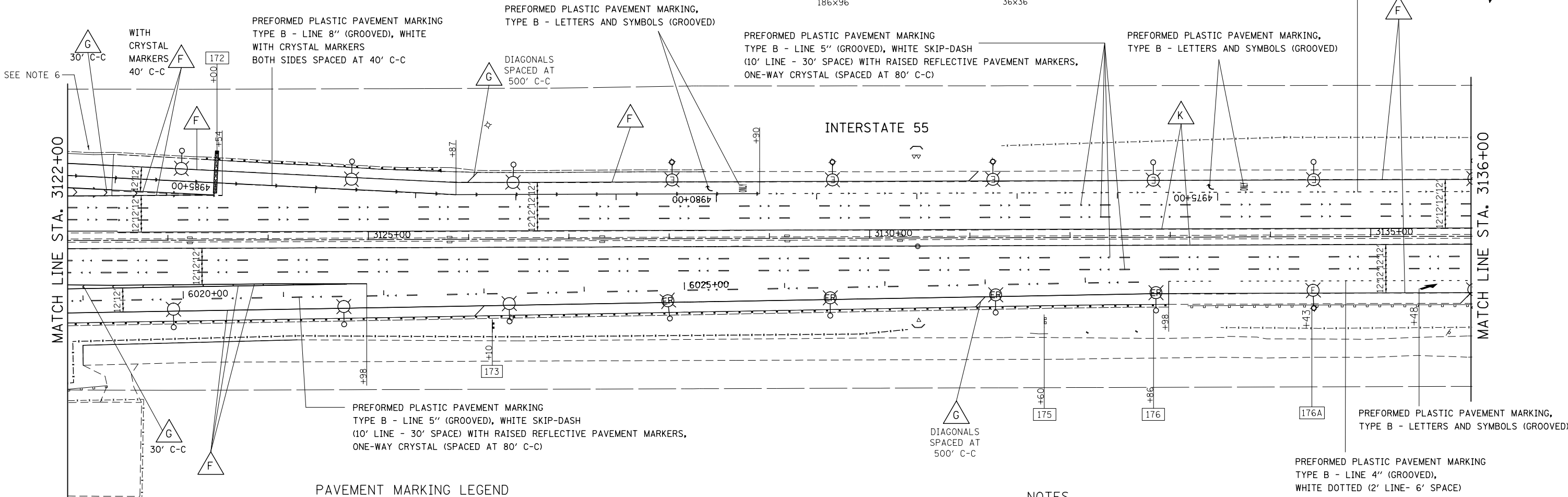
PROPOSED SIGN STRUCTURE IC0991055L263.7
SEE SIGN STRUCTURE DETAIL SHEET

66x36
(ON NEW WOOD POSTS)

186x96

M1-1
36x36

W4-2
48x48

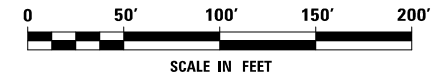
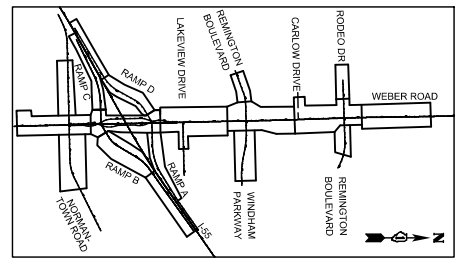


PAVEMENT MARKING LEGEND

- A PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)
B PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)
C PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)
D PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)
E PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'
F PAVEMENT MARKING - LINE 8", SOLID WHITE
G PAVEMENT MARKING - LINE 12", SOLID WHITE
H PAVEMENT MARKING - LINE 24", SOLID WHITE
I PAVEMENT MARKING, LETTERS & SYMBOLS
J PAVEMENT MARKING - LINE 4", SOLID WHITE
K PAVEMENT MARKING - LINE 4", SOLID YELLOW
L PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)
M PAVEMENT MARKING - LINE 8", SOLID YELLOW
N PAVEMENT MARKING - LINE 6", SOLID WHITE
O PAVEMENT MARKING - LINE 12", SOLID YELLOW
P PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)
Q PAVEMENT MARKING - LINE 4", DOUBLE YELLOW

NOTES

1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-32-pmk-14_155_04.dgn

THE RODERICK GROUP 1327 W WASHINGTON BLVD SUITE 10 CHICAGO, IL 60607 www.rodgr.com

USER NAME = mmaestro PLOT SCALE = 1:100 PLOT DATE = 6/15/2017

DESIGNED BAB DRAWN CJD CHECKED MAK DATE 06/16/17

REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING - I-55

SCALE: AS SHOWN SHEET NO. 4 OF 6 SHEETS STA. 3122+00 TO STA. 3136+00

Table with columns: F.A.I./P RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., * (99-1HB-1) R-1, WILL, CONTRACT NO. 60X10, * FAI 55, FAP 856 ILLINOIS FED. AID PROJECT

PREFORMED PLASTIC PAVEMENT MARKING
 TYPE B - LINE 5" (GROOVED), WHITE SKIP-DASH
 (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
 ONE-WAY CRYSTAL (SPACED AT 80' C-C)

PREFORMED PLASTIC PAVEMENT MARKING
 TYPE B - LINE 8" (GROOVED),
 WHITE DOTTED (3' LINE - 9' SPACE)
 WITH CRYSTAL MARKERS SPACED AT 36' C-C

PREFORMED PLASTIC PAVEMENT MARKING,
 TYPE B - LETTERS AND SYMBOLS (GROOVED)

PREFORMED PLASTIC PAVEMENT MARKING
 TYPE B - LINE 8" (GROOVED)
 WHITE DOTTED (3' LINE - 9' SPACE)

178 WB-RA-WP-256(P)

178A WB-RA-WP-256A(P)

179 WB-RA-CL-257(REMAIN)

CRASH
 INVESTIGATION
 SITE
 NEXT RIGHT

60x72
 SEE SIGN
 PANEL DETAIL

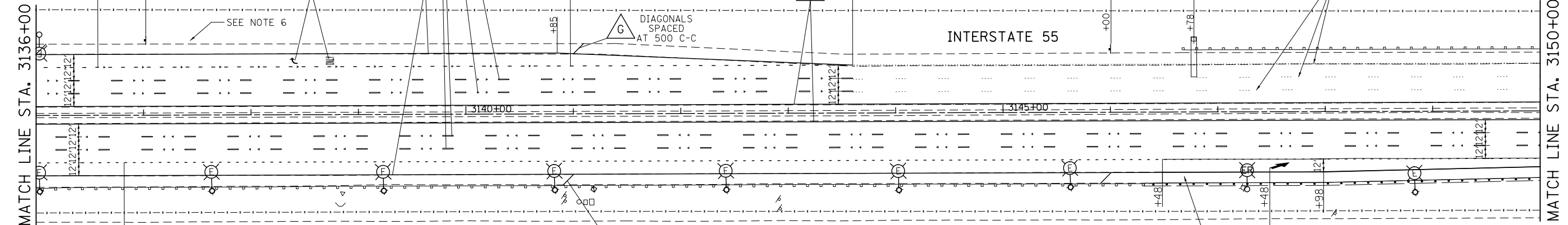
CRASH
 INVESTIGATION
 SITE
 1/2 MILE

60x72
 SEE SIGN
 PANEL DETAIL

EXIT 263
 Weber Rd
 1/2 MILE

210x132

END PAVEMENT
 MARKING IMPROVEMENT
 STA. 3143+60



PREFORMED PLASTIC PAVEMENT MARKING
 TYPE B - LINE 4" (GROOVED),
 WHITE DOTTED (2' LINE- 6' SPACE)

PREFORMED PLASTIC PAVEMENT MARKING,
 TYPE B - LETTERS AND SYMBOLS (GROOVED)

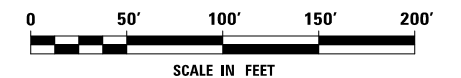
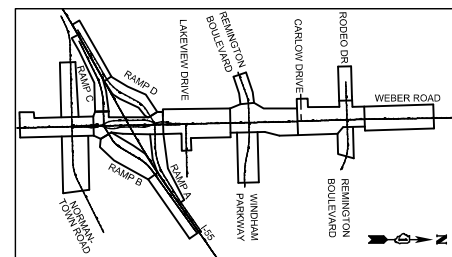
SHOULDER RUMBLE STRIPS, 16 IN.
 STA. 3146+48 TO 3153+95

PAVEMENT MARKING LEGEND

- | | |
|---|--|
| <p>A PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH
(10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)</p> <p>B PAVEMENT MARKING - LINE 4", DOUBLE YELLOW
WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY
AMBER (SPACED AT 40' C-C)</p> <p>C PAVEMENT MARKING - LINE 6", SOLID WHITE
WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY
CRYSTAL (SPACED AT 40' C-C)</p> <p>D PAVEMENT MARKING - LINE 6", WHITE DOTTED
(2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)</p> <p>E PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT
10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'</p> <p>F PAVEMENT MARKING - LINE 8", SOLID WHITE</p> <p>G PAVEMENT MARKING - LINE 12", SOLID WHITE</p> | <p>H PAVEMENT MARKING - LINE 24", SOLID WHITE</p> <p>I PAVEMENT MARKING, LETTERS & SYMBOLS</p> <p>J PAVEMENT MARKING - LINE 4", SOLID WHITE</p> <p>K PAVEMENT MARKING - LINE 4", SOLID YELLOW</p> <p>L PAVEMENT MARKING - LINE 8", YELLOW DOTTED
(2' LINE - 6' SPACE)</p> <p>M PAVEMENT MARKING - LINE 8", SOLID YELLOW</p> <p>N PAVEMENT MARKING - LINE 6", SOLID WHITE</p> <p>O PAVEMENT MARKING - LINE 12", SOLID YELLOW</p> <p>P PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH
(10' LINE - 30' SPACE)</p> <p>Q PAVEMENT MARKING - LINE 4", DOUBLE YELLOW</p> |
|---|--|

NOTES

1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-33-pmk-15_155_05.dgn

THE RODERICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 10
 CHICAGO, IL 60607
 www.rodgr.com

USER NAME = mmaestro
 PLOT SCALE = 1:100
 PLOT DATE = 6/15/2017

DESIGNED BAB
 DRAWN CJD
 CHECKED MAK
 DATE 06/16/17

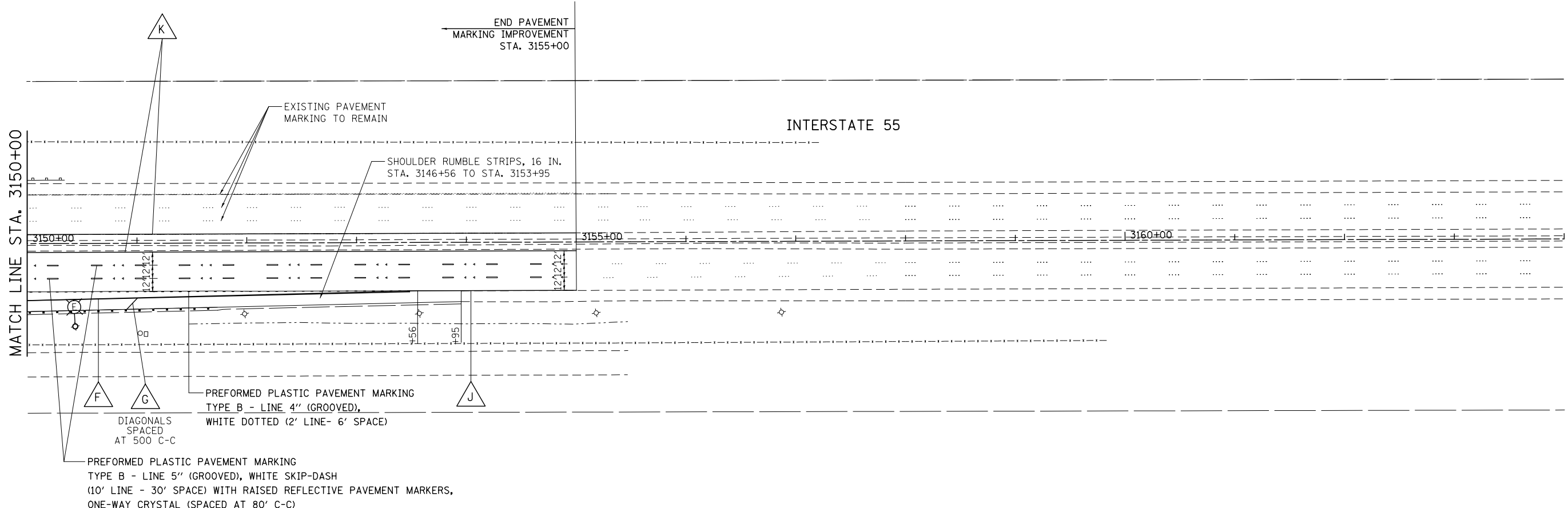
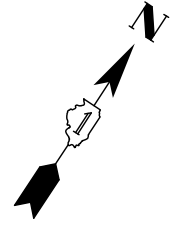
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING - I-55

SCALE: AS SHOWN SHEET NO. 5 OF 6 SHEETS STA. 3136+00 TO STA. 3143+60

F.A.I/P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	708
SPM-33			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

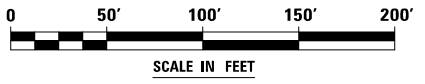
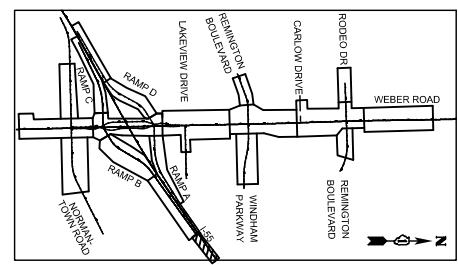


PAVEMENT MARKING LEGEND

- | | |
|---|--|
| <p>A PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)</p> <p>B PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)</p> <p>C PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)</p> <p>D PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)</p> <p>E PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'</p> <p>F PAVEMENT MARKING - LINE 8", SOLID WHITE</p> <p>G PAVEMENT MARKING - LINE 12", SOLID WHITE</p> | <p>H PAVEMENT MARKING - LINE 24", SOLID WHITE</p> <p>I PAVEMENT MARKING, LETTERS & SYMBOLS</p> <p>J PAVEMENT MARKING - LINE 4", SOLID WHITE</p> <p>K PAVEMENT MARKING - LINE 4", SOLID YELLOW</p> <p>L PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)</p> <p>M PAVEMENT MARKING - LINE 8", SOLID YELLOW</p> <p>N PAVEMENT MARKING - LINE 6", SOLID WHITE</p> <p>O PAVEMENT MARKING - LINE 12", SOLID YELLOW</p> <p>P PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)</p> <p>Q PAVEMENT MARKING - LINE 4", DOUBLE YELLOW</p> |
|---|--|

NOTES

1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-34-pmk-16_155_06.dgn

	THE RODERICK GROUP 1327 W WASHINGTON BLVD SUITE 30 CHICAGO, IL 60607 www.rodgr.com	USER NAME = mmaestro PLOT SCALE = 1:100 PLOT DATE = 5/13/2017	DESIGNED BAB DRAWN CJD CHECKED MAK DATE 05/12/17	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING - I-55	SCALE: AS SHOWN SHEET NO. 6 OF 6 SHEETS STA. 3150+00 TO STA. 3155+00	F.A.I./P RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	(99-1HB-1) R-1 WILL 1508 709
	SPM-34 * FAI 55, FAP 856 ILLINOIS FED. AID PROJECT								CONTRACT NO. 60X10

195 WB-RA-BS-276(REL)

196 EB-RA-WP-277(P)

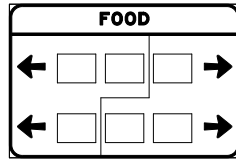
198 WB-RA-BS-279(REL)

199 WB-RA-WP-280(P) EB-RA-WP-281(P)

200 EB-RA-WP-282(P)

201 WB-RA-TR-283(P)

WB-RA-TR-284(P)



144x96

197 EB-RA-WP-278(P)

205 EB-RA-WP-290(P)

206 EB-RA-WP-291(P)

WRONG WAY

R5-1a
42x30



132x72



48x60

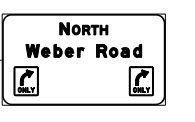
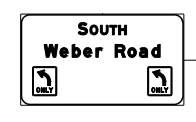


R5-1
48X48



R5-1
48X48

BACK TO BACK



PROPOSED SIGN STRUCTURE 1S0991055L263.5
SEE SIGN STRUCTURE DETAIL SHEET

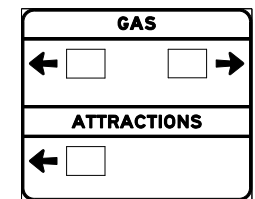
202 SB-RA-WP-285(P)

203 SB-RA-WP-286(P)



R6-1R
54x18

204 WB-RA-BS-287(REL)



148x120

WB-RA-BS-288(REL)



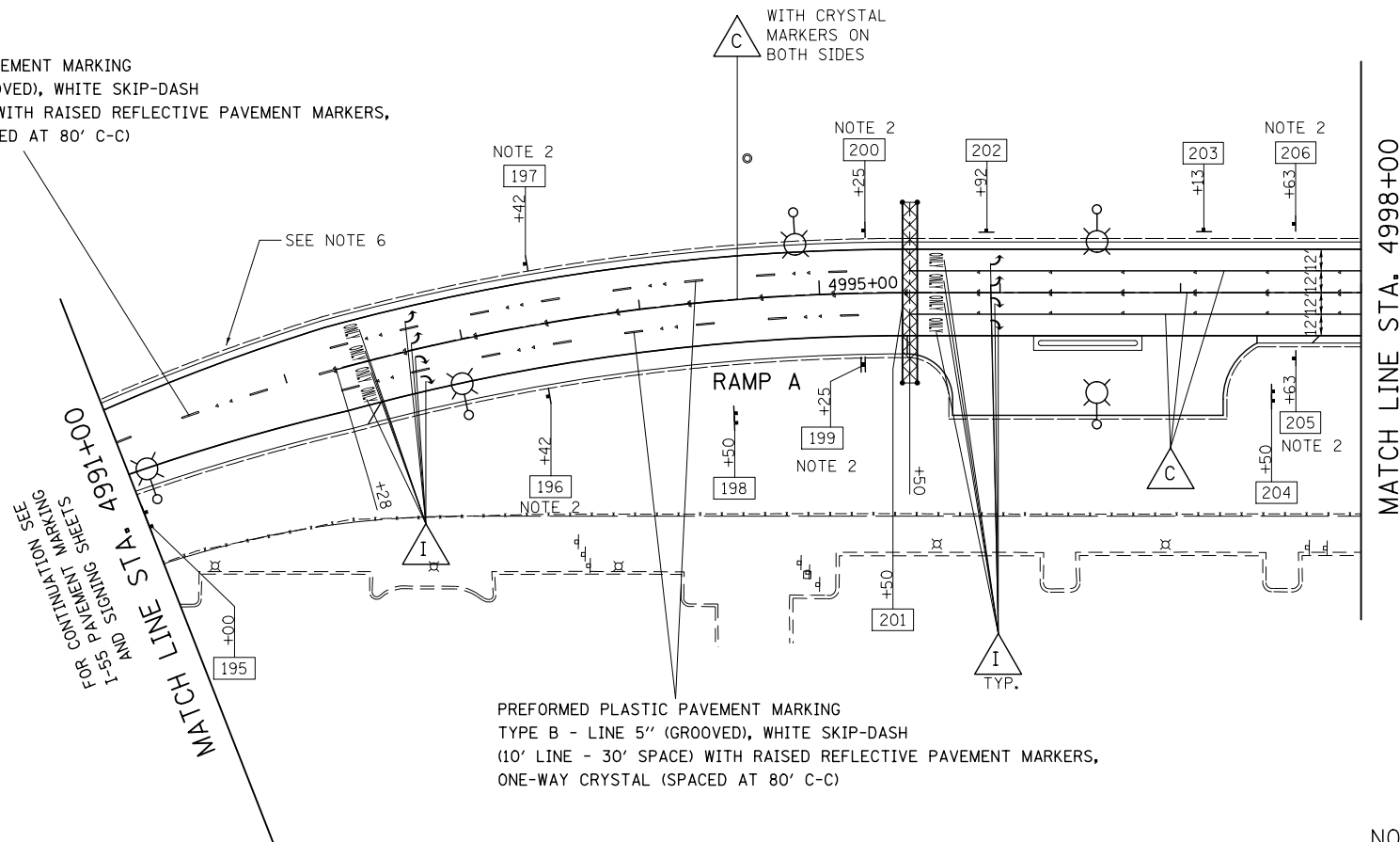
D9-7
18x18

WB-RA-BS-289(REL)



M6-1L
21x15

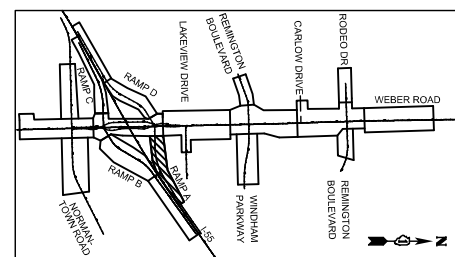
PERFORMED PLASTIC PAVEMENT MARKING
TYPE B - LINE 5" (GROOVED), WHITE SKIP-DASH
(10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS,
ONE-WAY CRYSTAL (SPACED AT 80' C-C)



FOR CONTINUATION SEE
WEBER RD PAVEMENT MARKING
AND SIGNING SHEETS

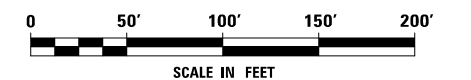
PAVEMENT MARKING LEGEND

- A PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)
- B PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)
- C PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)
- D PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)
- E PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'
- F PAVEMENT MARKING - LINE 8", SOLID WHITE
- G PAVEMENT MARKING - LINE 12", SOLID WHITE
- H PAVEMENT MARKING - LINE 24", SOLID WHITE
- I PAVEMENT MARKING, LETTERS & SYMBOLS
- J PAVEMENT MARKING - LINE 4", SOLID WHITE
- K PAVEMENT MARKING - LINE 4", SOLID YELLOW
- L PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)
- M PAVEMENT MARKING - LINE 8", SOLID YELLOW
- N PAVEMENT MARKING - LINE 6", SOLID WHITE
- O PAVEMENT MARKING - LINE 12", SOLID YELLOW
- P PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)
- Q PAVEMENT MARKING - LINE 4", DOUBLE YELLOW



NOTES

- SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.
- A RED VERTICAL RETROREFLECTIVE STRIP (4" W X 72" H) WITH AP SHEETING SHALL BE FURNISHED AND INSTALLED ON THE SIGN SUPPORT FOR RAMP "WRONG-WAY" AND "DO NOT ENTER" SIGNS IN ACCORDANCE WITH THE MUTCD. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE UNIT COST FOR WOOD SIGN SUPPORT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



FILE NAME = D:\60X10-shr-35-pmk-17_RampA.dgn

THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgr.com

USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:100	DRAWN CJD	REVISED -
PLOT DATE = 6/27/2017	CHECKED MAK	REVISED -
	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

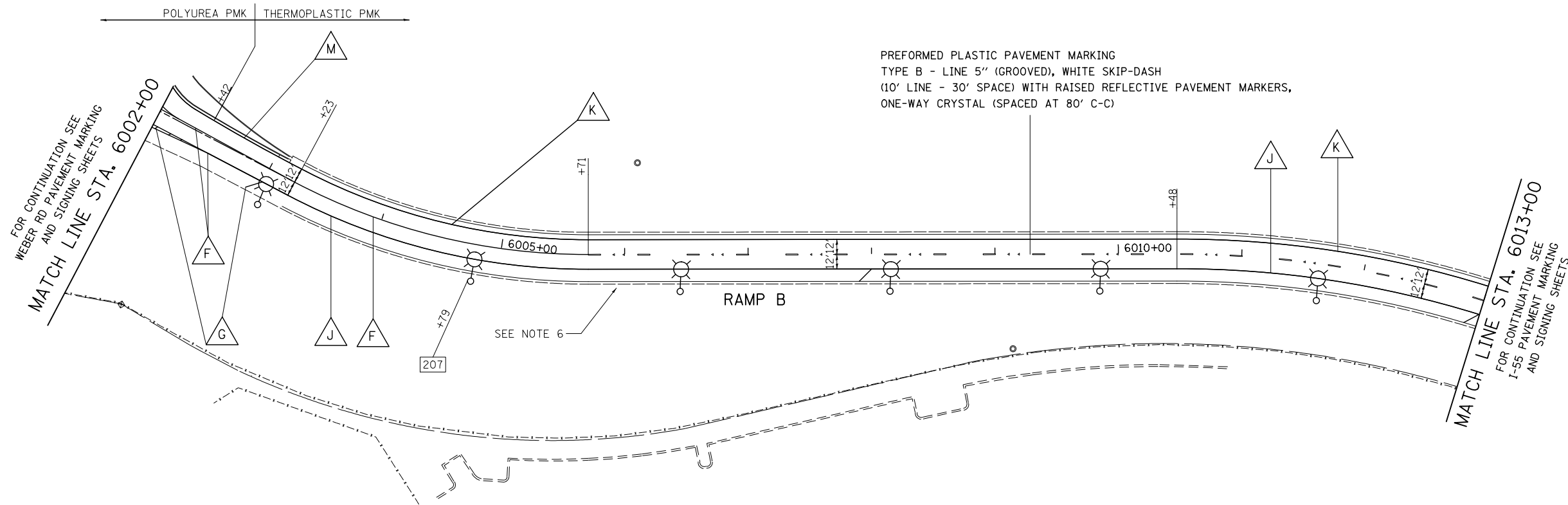
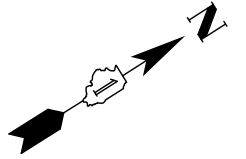
PAVEMENT MARKING AND SIGNING - RAMP A

SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 4991+00 TO STA. 4998+00

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	710
SPM-35			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



R5-1100
48X60

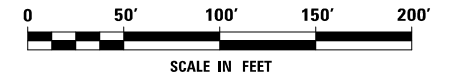
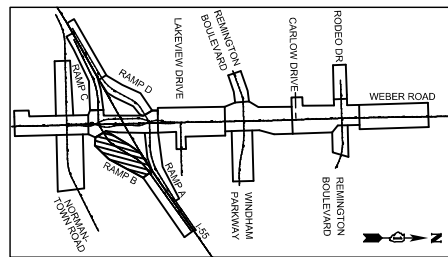


PAVEMENT MARKING LEGEND

- | | | | |
|----------|--|----------|--|
| A | PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED) | H | PAVEMENT MARKING - LINE 24", SOLID WHITE |
| B | PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C) | I | PAVEMENT MARKING, LETTERS & SYMBOLS |
| C | PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C) | J | PAVEMENT MARKING - LINE 4", SOLID WHITE |
| D | PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED) | K | PAVEMENT MARKING - LINE 4", SOLID YELLOW |
| E | PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2' | L | PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE) |
| F | PAVEMENT MARKING - LINE 8", SOLID WHITE | M | PAVEMENT MARKING - LINE 8", SOLID YELLOW |
| G | PAVEMENT MARKING - LINE 12", SOLID WHITE | N | PAVEMENT MARKING - LINE 6", SOLID WHITE |
| | | O | PAVEMENT MARKING - LINE 12", SOLID YELLOW |
| | | P | PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) |
| | | Q | PAVEMENT MARKING - LINE 4", DOUBLE YELLOW |

NOTES

- SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-35-pmk-18_RampB.dgn

THE RODERICK GROUP 1327 W WASHINGTON BLVD SUITE 10 CHICAGO, IL 60607 www.rodgr.com	USER NAME = mmaestro PLOT SCALE = 1:100 PLOT DATE = 5/13/2017	DESIGNED BAB DRAWN CJD CHECKED MAK DATE 05/12/17	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING - RAMP B	SCALE: AS SHOWN	SHEET NO. 1 OF 1 SHEETS	STA. 6002+00 TO STA. 6013+00	F.A.I/P RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	* (99-1HB-1) R-1 WILL 1508 711
									* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT	

181 EB-RC-WP-259(REL)



30x30

182 WB-RC-WP-260(P)

183 WB-RC-WP-261(P)

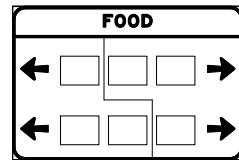
193 WB-RC-WP-274(P)

194 WB-RC-WP-275(P)



R5-1a
42x30

184 EB-RC-BS-262(REL)
USE EXISTING SUPPORTS



144x96

185 EB-RC-WP-263(P)



48x60

SEE SIGN PANEL DETAIL

186 EB-RC-BS-264(REL)



126x72

187 WB-RC-WP-265(P)



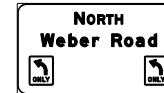
R5-1
48x48

189 NB-RC-WP-267(P)

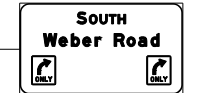


R6-1R
54x18

191 EB-RC-TR-269(P)

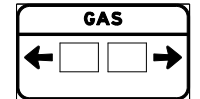


EB-RC-TR-270(P)



PROPOSED SIGN STRUCTURE 1S099I055R263.3
SEE SIGN STRUCTURE DETAIL SHEET

192 EB-RC-BS-271(REL)



108x60

EB-RC-BS-272(REL)

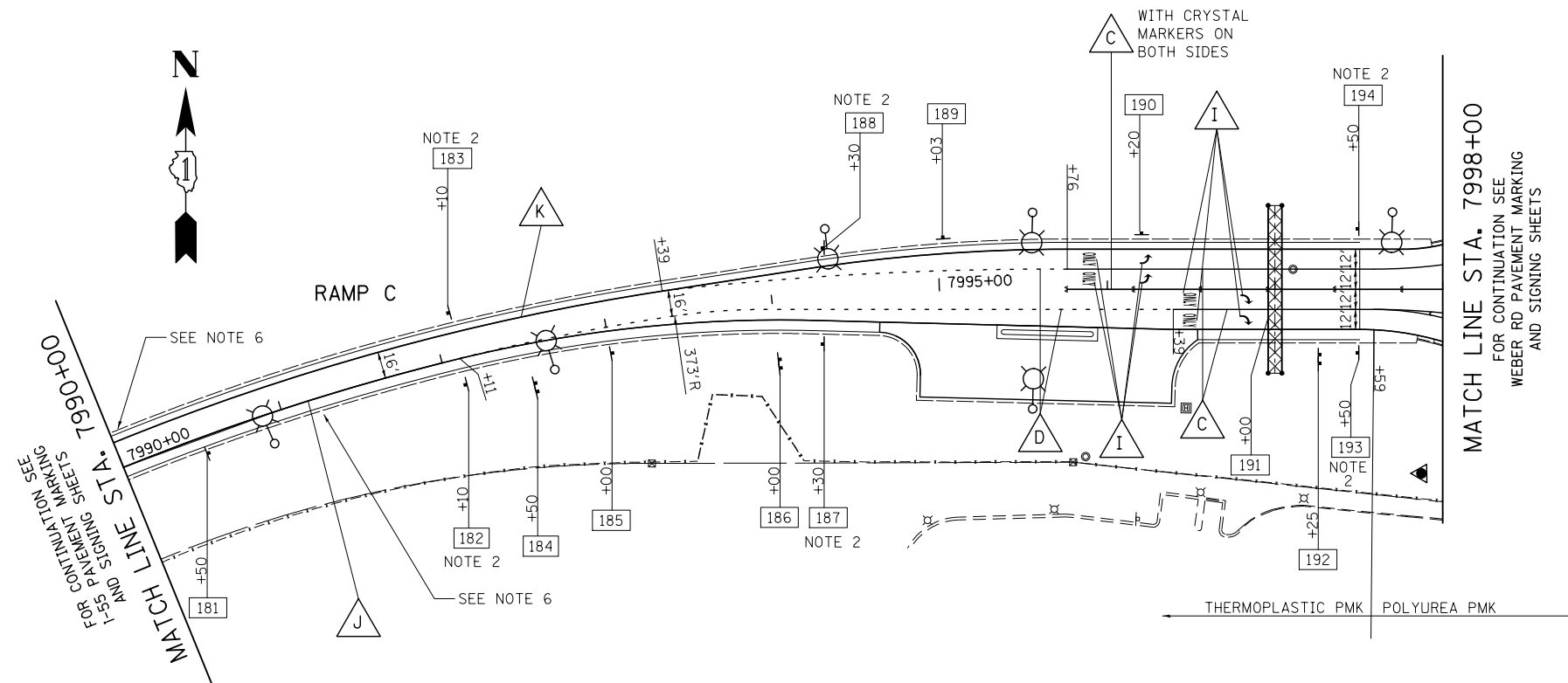


D9-7
18x18

EB-RC-BS-273(REL)



M6-1
21x15

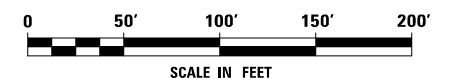
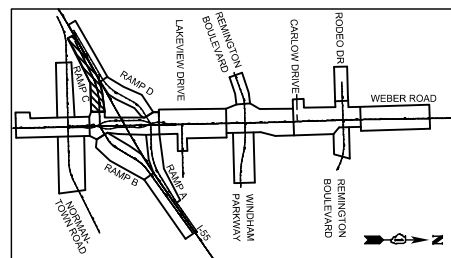


PAVEMENT MARKING LEGEND

- PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)
- PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)
- PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)
- PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)
- PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'
- PAVEMENT MARKING - LINE 8", SOLID WHITE
- PAVEMENT MARKING - LINE 12", SOLID WHITE
- PAVEMENT MARKING - LINE 24", SOLID WHITE
- PAVEMENT MARKING, LETTERS & SYMBOLS
- PAVEMENT MARKING - LINE 4", SOLID WHITE
- PAVEMENT MARKING - LINE 4", SOLID YELLOW
- PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)
- PAVEMENT MARKING - LINE 8", SOLID YELLOW
- PAVEMENT MARKING - LINE 6", SOLID WHITE
- PAVEMENT MARKING - LINE 12", SOLID YELLOW
- PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)
- PAVEMENT MARKING - LINE 4", DOUBLE YELLOW

NOTES

- SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.
- A RED VERTICAL RETROREFLECTIVE STRIP (4" W X 72" H) WITH AP SHEETING SHALL BE FURNISHED AND INSTALLED ON THE SIGN SUPPORT FOR RAMP "WRONG-WAY" AND "DO NOT ENTER" SIGNS IN ACCORDANCE WITH THE MUTCD. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE UNIT COST FOR WOOD SIGN SUPPORT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



FILE NAME = D:\60X10-shr-37-pmk-19_RampC.dgn



THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgr.com

USER NAME = mmaestro
PLOT SCALE = 1:100
PLOT DATE = 6/27/2017

DESIGNED BAB
DRAWN CJD
CHECKED MAK
DATE 06/16/17

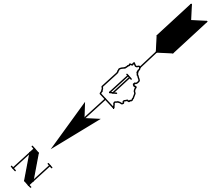
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING - RAMP C

SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 7990+00 TO STA. 7998+00

F.A.I/P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	712
SPM-37			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



180 WB-RD-WP-258(P)
180A WB-RD-WP-258A(P)

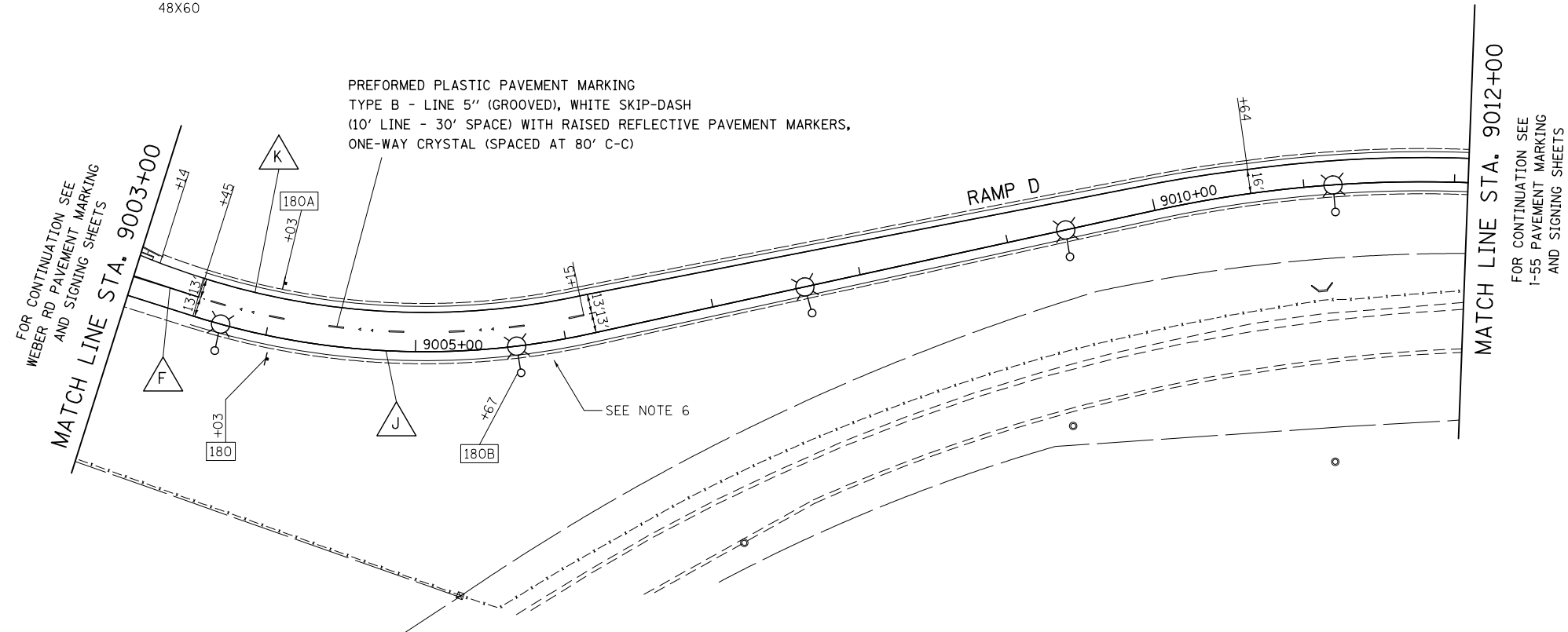


W4-2
48x48

180B WB-RD-LP-258B(P)



R5-1100
48x60



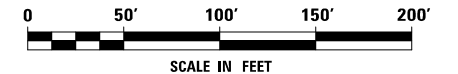
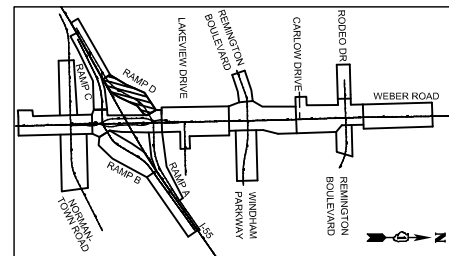
MATCH LINE STA. 9012+00
FOR CONTINUATION SEE I-55 PAVEMENT MARKING AND SIGNING SHEETS

PAVEMENT MARKING LEGEND

- | | |
|---|--|
| <p>A PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 80' C-C UNLESS OTHERWISE NOTED)</p> <p>B PAVEMENT MARKING - LINE 4", DOUBLE YELLOW WITH RAISED REFLECTIVE PAVEMENT MARKERS, TWO-WAY AMBER (SPACED AT 40' C-C)</p> <p>C PAVEMENT MARKING - LINE 6", SOLID WHITE WITH RAISED REFLECTIVE PAVEMENT MARKERS, ONE-WAY CRYSTAL (SPACED AT 40' C-C)</p> <p>D PAVEMENT MARKING - LINE 6", WHITE DOTTED (2' LINE - 6' SPACE, UNLESS OTHERWISE NOTED)</p> <p>E PAVEMENT MARKING - LINE 6", (2) SOLID WHITE SPACED AT 10' C-C WITH 12" SOLID WHITE DIAGONALS AT 45°, SPACED AT 2'</p> <p>F PAVEMENT MARKING - LINE 8", SOLID WHITE</p> <p>G PAVEMENT MARKING - LINE 12", SOLID WHITE</p> | <p>H PAVEMENT MARKING - LINE 24", SOLID WHITE</p> <p>I PAVEMENT MARKING, LETTERS & SYMBOLS</p> <p>J PAVEMENT MARKING - LINE 4", SOLID WHITE</p> <p>K PAVEMENT MARKING - LINE 4", SOLID YELLOW</p> <p>L PAVEMENT MARKING - LINE 8", YELLOW DOTTED (2' LINE - 6' SPACE)</p> <p>M PAVEMENT MARKING - LINE 8", SOLID YELLOW</p> <p>N PAVEMENT MARKING - LINE 6", SOLID WHITE</p> <p>O PAVEMENT MARKING - LINE 12", SOLID YELLOW</p> <p>P PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE)</p> <p>Q PAVEMENT MARKING - LINE 4", DOUBLE YELLOW</p> |
|---|--|

NOTES

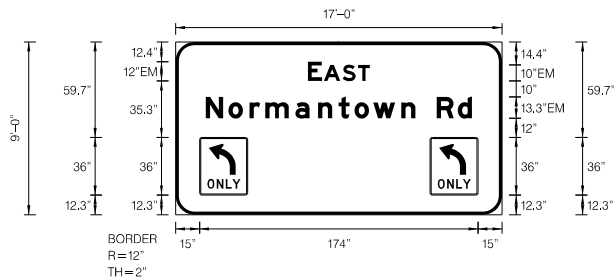
1. SEE GENERAL PAVEMENT MARKING AND SIGNING NOTES ON SHEET SPM-16.



FILE NAME = D:\60X10-shr-38-pmk-20_RampD.dgn

<p>THE RODERICK GROUP 1327 W WASHINGTON BLVD SUITE 10 CHICAGO, IL 60607 www.rodgr.com</p>	USER NAME = mmaestro PLOT SCALE = 1:1100 PLOT DATE = 5/13/2017	DESIGNED BAB DRAWN CJD CHECKED MAK DATE 05/12/17	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING - RAMP D			F.A.I./P RTE. * (99-1HB-1) R-1 SPM-38 * FAI 55, FAP 856 ILLINOIS FED. AID PROJECT	COUNTY WILL	TOTAL SHEETS 1508	SHEET NO. 713
	SCALE: AS SHOWN SHEET NO. 1 OF 1 SHEETS STA. 9003+00 TO STA. 9012+00				CONTRACT NO. 60X10						

SIGN DETAIL
1:75



Panel Style: guide_IDOT_Arterial(OH 40 MPH).ssl
Dimensions are in Inches,tenths

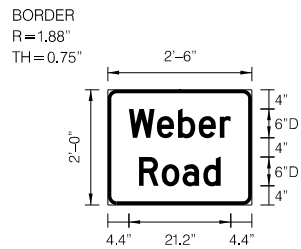
Letter locations are panel edge to lower left corner

SIGN NUMBER	SB-WR-TR-028(P)
WIDTH x HIGHT.	17'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT
R3-5L	0	15	12.3	30	36
R3-5L	0	159	12.3	30	36

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
E	A	S	T									EM 2000		
82.6	92.8	104.4	114									38.7	12,10	
N	o	r	m	a	n	t	o	w	n		R	d	EM 2000	
18.9	33	46.2	56.1	74.9	89	101.8	111.8	123.5	141	149.8	163.1	176.3	166.3	13,310

SIGN DETAIL
1:25



Panel Style: Street Name Mast Arm IDOT 18In Blank.ssl
Dimensions are in Inches,tenths

Letter locations are panel edge to lower left corner

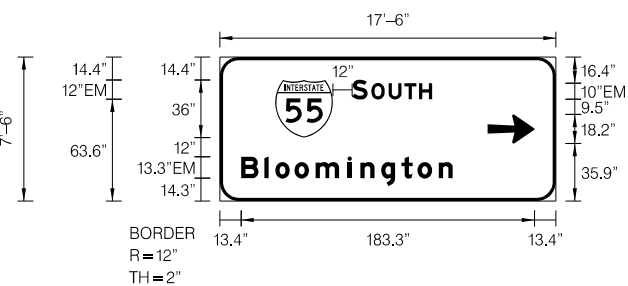
* SB-WR-TS-056B(P)
** NB-WR-TS-072B(P)

SIGN NUMBER	*, **
WIDTH x HIGHT.	2'-6" x 2'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	1.88"
MOUNTING	Telescoping Steel Mount
BACKGROUND	TYPE: AP SHEETING COLOR: Green
LEGEND/BORDER	TYPE: AP SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
W	e	b	e	r								D 2000		
4.4	10.3	14.6	19	23.3								21.2	64.5	
R	o	a	d									17	D 2000	
6.5	11.3	15.6	19.9										64.5	

SIGN DETAIL
1:75



Panel Style: guide_IDOT_Arterial(OH 40 MPH).ssl
Dimensions are in Inches,tenths

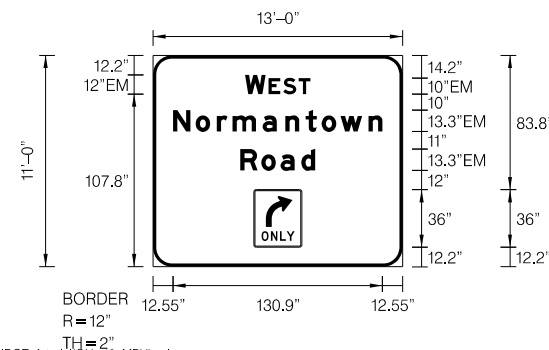
Letter locations are panel edge to lower left corner

SIGN NUMBER	SB-WR-TR-095(P)
WIDTH x HIGHT.	17'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT
M1_1	0	34.7	39.6	36	36
AR_Type A	270	167.4	35.9	18.2	29.3

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
S	O	U	T	H								EM 2000		
82.7	94.7	105.5	115.4	124.6								50	12,10	
B	l	o	o	m	i	n	g	t	o	n		EM 2000		
13.4	27.9	34.7	46.7	59.9	79.9	87.9	100.8	113.6	123.6	136.8		132.3	13,310	

SIGN DETAIL
1:75



Panel Style: guide_IDOT_Arterial(OH 40 MPH).ssl
Dimensions are in Inches,tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	SB-WR-TR-030(P)
WIDTH x HIGHT.	13'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT
R3-SR	0	63	12.1	30	36

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE		
W	E	S	T									EM 2000		
57.6	72.2	81.4	91									40.8	12,10	
N	o	r	m	a	n	t	o	w	n			EM 2000		
12.5	26.7	39.9	49.7	68.5	82.7	95.5	105.5	117.2	134.7			130.9	13,310	
R	o	a	d									EM 2000		
54.5	67.7	79.7	92.7									46.9	13,310	

FILE NAME = D:\60X10-shr-39-5signpanel\Detail.dgn



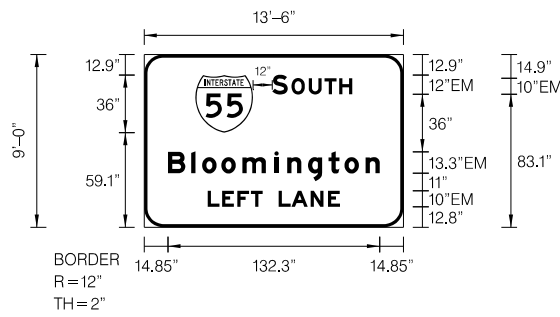
USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:10	DRAWN CJD	REVISED -
PLOT DATE = 6/15/2017	CHECKED MAK	REVISED -
	DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS - PLAN VIEW			
SCALE: AS SHOWN	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.

F.A.I/P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	714
SPM-39		CONTRACT NO. 60X10		
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

SIGN DETAIL
1:75



Panel Style: guide_IDOT_Arterial(OH 40 MPH).ssi
Dimensions are in inches.tenths

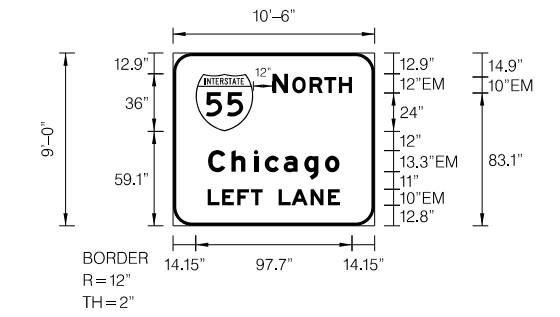
Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-WR-TR-031(P)
WIDTH x HGHT.	13'-6" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT
ML_1	0	32	59.1	36	36

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE
S	O	U	T	H									50	EM 2000
80	92	102.8	112.7	121.9									12.10	12,10
B	I	O	O	M	I	N	G	T	O	N			132.3	EM 2000
14.9	29.4	36.2	48.2	61.4	81.4	89.4	102.3	115.1	125.1	138.3			13.310	13,310
L	E	F	T		L	A	N	E					82.6	EM 2000
39.7	48.7	58.2	66.7	74.1	84.1	92.1	104	114.9					10	10

SIGN DETAIL
1:75



Panel Style: guide_IDOT_Arterial(OH 40 MPH).ssi
Dimensions are in inches.tenths

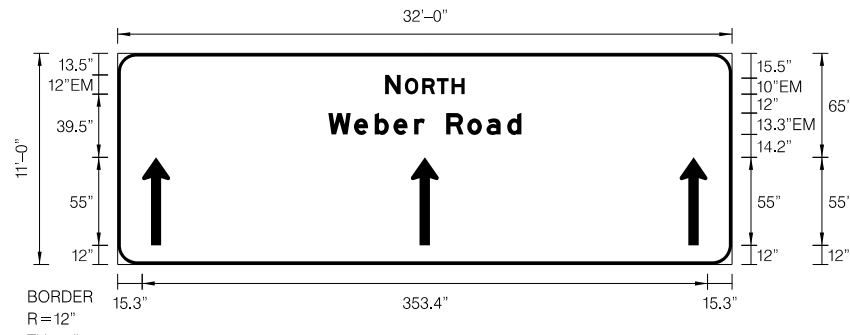
Letter locations are panel edge to lower left corner

SIGN NUMBER	SB-WR-TR-093(P)
WIDTH x HGHT.	10'-6" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT
ML_1	0	14.1	59.1	36	36

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE
N	O	R	T	H									49.7	EM 2000
62.2	74.6	85.4	94.6	103.8									12.10	12,10
C	H	I	C	A	G	O							82.1	EM 2000
21.9	36.5	50.6	57.4	69.1	82.1	95							13.310	13,310
L	E	F	T		L	A	N	E					82.6	EM 2000
21.7	30.7	40.2	48.7	56.1	66.1	74.1	86	96.9					10	10

SIGN DETAIL
1:75



Panel Style: guide_IDOT_Arterial(OH 40 MPH).ssi
Dimensions are in inches.tenths

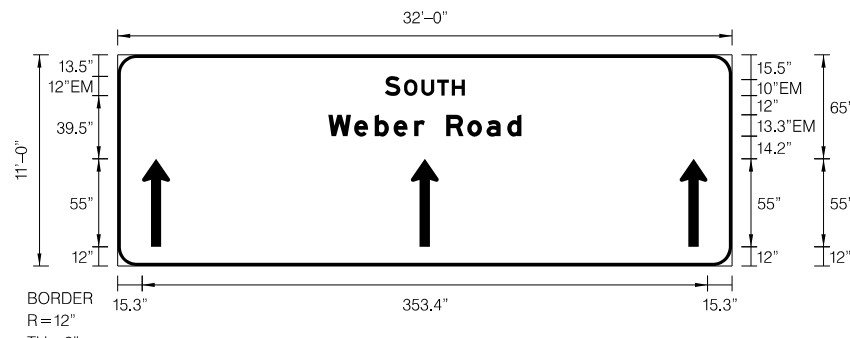
Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-WR-TR-032(P)
WIDTH x HGHT.	32'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT
AR_THRU	0	15.3	12	17.4	55
AR_THRU	0	183.3	12	17.4	55
AR_THRU	0	351.3	12	17.4	55

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE
N	O	R	T	H									49.7	EM 2000
167.2	179.6	190.4	199.6	208.8									12.10	12,10
W	e	b	e	r		R	o	a	d				120.7	EM 2000
131.7	147.8	160.7	172.5	185.4	192.1	205.4	218.6	230.6	243.5				13.310	13,310

SIGN DETAIL
1:75



Panel Style: guide_IDOT_Arterial(OH 40 MPH).ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	SB-WR-TR-029(P) SB-WR-TR-094(P)
WIDTH x HGHT.	32'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

SYMBOL	ROT	X	Y	WD	HT
AR_THRU	0	15.3	12	17.4	55
AR_THRU	0	183.3	12	17.4	55
AR_THRU	0	351.3	12	17.4	55

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE
S	O	U	T	H									50	EM 2000
167	179	189.8	199.7	208.9									12.10	12,10
W	e	b	e	r		R	o	a	d				120.7	EM 2000
131.7	147.8	160.7	172.5	185.4	192.1	205.4	218.6	230.6	243.5				13.310	13,310

FILE NAME = D:\60X10-shr-10-5\signpanel\Detail\02.dgn



USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:100	DRAWN CJD	REVISED -
PLOT DATE = 6/15/2017	CHECKED MAK	REVISED -
	DATE 06/16/17	REVISED -

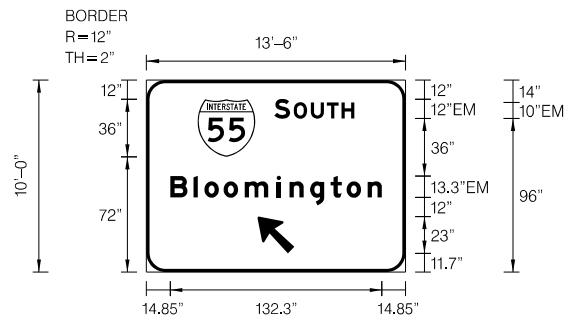
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS - PLAN VIEW

SCALE: AS SHOWN SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.I./P.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	715
SPM-40			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

SIGN DETAIL
1:75



SIGN NUMBER	NB-WR-CL-072(P)
WIDTH x HGHT.	13'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

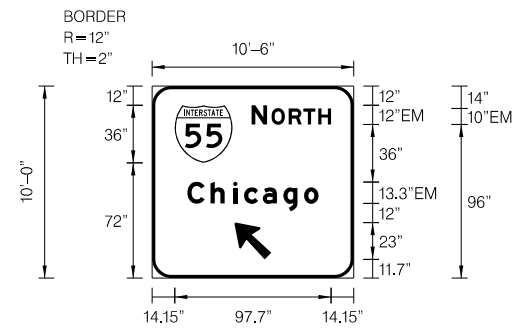
SYMBOL	ROT	X	Y	WID	HT
MI_1	0	32	72	36	36
AR_Type A	45	69.5	11.7	18.2	29.3

Panel Style: guide_DOT_Arterial(OH 40 MPH).ssi
Dimensions are in Inches,tenths

Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE		
S	O	U	T	H										EM 2000	
80	92	102.8	112.7	121.9										50	12,10
B	I	o	o	m	i	n	g	t	o	n				EM 2000	
14.9	29.4	36.2	48.2	61.4	81.4	89.4	102.4	115.2	125.2	138.4				132.3	13,310

SIGN DETAIL
1:75



SIGN NUMBER	SB-WR-CL-056(P)
WIDTH x HGHT.	10'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: ZZ SHEETING COLOR: Green
LEGEND/BORDER	TYPE: ZZ SHEETING COLOR: White/White

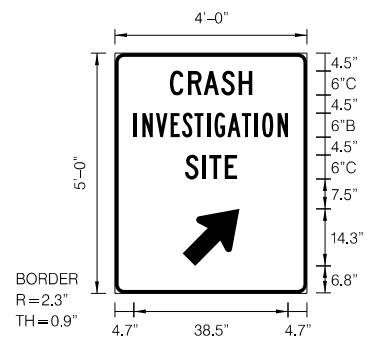
SYMBOL	ROT	X	Y	WID	HT
MI_1	0	14.1	72	36	36
AR_Type A	45	51.5	11.7	18.2	29.3

Panel Style: guide_DOT_Arterial(OH 40 MPH).ssi
Dimensions are in Inches,tenths

Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE		
N	O	R	T	H										EM 2000	
62.2	74.6	85.4	94.6	103.8										49.7	12,10
C	h	i	c	a	g	o								EM 2000	
22.1	36.6	50.7	57.4	69.1	82	94.9								81.9	13,310

SIGN DETAIL
1:30



EB-RC-WP-263(P)
WB-RA-WP-280(P)

SIGN NUMBER	1
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.9"
CORNER RADIUS	2.3"
MOUNTING	Ground
BACKGROUND	TYPE: AP Sheeting COLOR: Blue
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: White/White

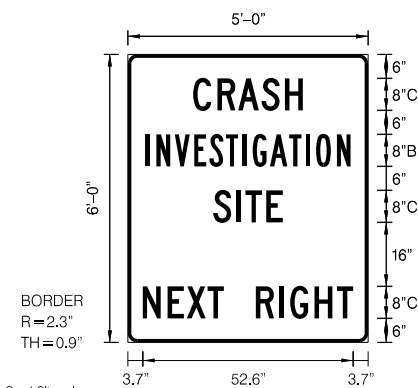
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	315	16.9	6.9	12	17.9

Panel Style: guide_DOT_CrashSite.ssi
Dimensions are in Inches,tenths

Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE		
C	R	A	S	H										C 2000	
13.7	18.3	22.2	26.6	30.9										20.6	6
I	N	V	E	S	T	I	G	A	T	I	O	N		B 2000	
4.7	6.8	10.3	13.9	16.8	19.9	23	24.9	28.1	31.7	34.9	36.8	40.7		38.5	6
S	I	T	E											C 2000	
17.5	21.9	23.6	27.5											13	6

SIGN DETAIL
1:30



EB-RC-WP-239(P)
WB-RA-WP-256(P)

SIGN NUMBER	1
WIDTH x HGHT.	5'-0" x 6'-0"
BORDER WIDTH	0.9"
CORNER RADIUS	2.3"
MOUNTING	Ground
BACKGROUND	TYPE: AP Sheeting COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_DOT_CrashSite.ssi
Dimensions are in Inches,tenths

Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE		
C	R	A	S	H										C 2000	
16.3	22.4	27.6	33.4	39.3										27.5	8
I	N	V	E	S	T	I	G	A	T	I	O	N		B 2000	
4.4	7.2	11.7	16.6	20.4	24.5	28.7	31.2	35.6	40.4	44.5	47.1	52.3		51.4	8
S	I	T	E											C 2000	
21.4	27.2	29.4	34.6											17.4	8
N	E	X	T		R	I	G	H	T					C 2000	
3.7	9.9	14.7	19.9	24	32	37.9	40.6	46.7	52.3					52.6	8

FILE NAME = D:\60X10-shr-43-SignPanel\De\105.dgn



THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgr.com

USER NAME = mmaestro
PLOT SCALE = 1:10
PLOT DATE = 6/15/2017

DESIGNED BAB
DRAWN CJD
CHECKED MAK
DATE 06/16/17

REVISED -
REVISED -
REVISED -
REVISED -

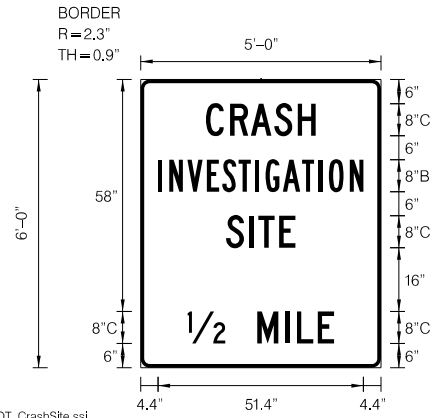
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS - PLAN VIEW

SCALE: AS SHOWN SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.I/P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	718
SPM-43			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

SIGN DETAIL
1:30



1 EB-RC-WP-164A(P)
WB-RA-WP-178A(P)

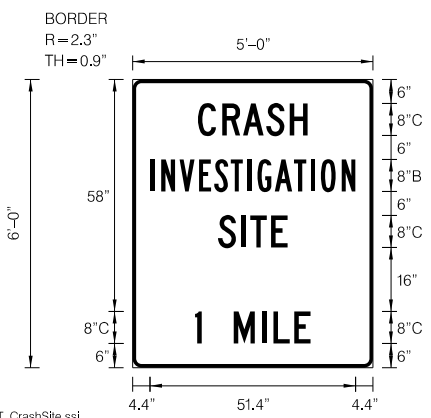
SIGN NUMBER	1
WIDTH x HGHT.	5'-0" x 6'-0"
BORDER WIDTH	0.9"
CORNER RADIUS	2.3"
MOUNTING	Ground
BACKGROUND	TYPE: AP Sheeting COLOR: Blue
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_IDOT_CrashSite.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES SIZE
C	R	A	S	H									27.4	C 2000
16.3	22.4	27.6	33.4	39.3									8	
I	N	V	E	S	T	I	G	A	T	I	O	N	51.4	B 2000
4.4	7.2	11.7	16.6	20.4	24.5	28.7	31.2	35.6	40.4	44.5	47.1	52.3	8	
S	I	T	E										17.4	C 2000
21.4	27.2	29.4	34.6										8	
1	M	I	L	E									36.6	C 2000
11.8	29.2	36.2	39.1	44.3									8	

SIGN DETAIL
1:30



1 EB-RC-WP-164B(P)
WB-RA-WP-178B(P)

SIGN NUMBER	1
WIDTH x HGHT.	5'-0" x 6'-0"
BORDER WIDTH	0.9"
CORNER RADIUS	2.3"
MOUNTING	Ground
BACKGROUND	TYPE: AP Sheeting COLOR: Blue
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_IDOT_CrashSite.ssi
Dimensions are in inches, tenths
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES SIZE
C	R	A	S	H									27.4	C 2000
16.3	22.4	27.6	33.5	39.3									8	
I	N	V	E	S	T	I	G	A	T	I	O	N	51.4	B 2000
4.4	7.2	11.7	16.6	20.5	24.5	28.7	31.3	35.6	40.4	44.5	47.1	52.3	8	
S	I	T	E										17.4	C 2000
21.4	27.2	29.5	34.7										8	
1	M	I	L	E									28.9	C 2000
15.6	25.3	32.4	35.2	40.4									8	

FILE NAME : D:\60X10-shr-43-5gpp\panel\Detail106.dgn



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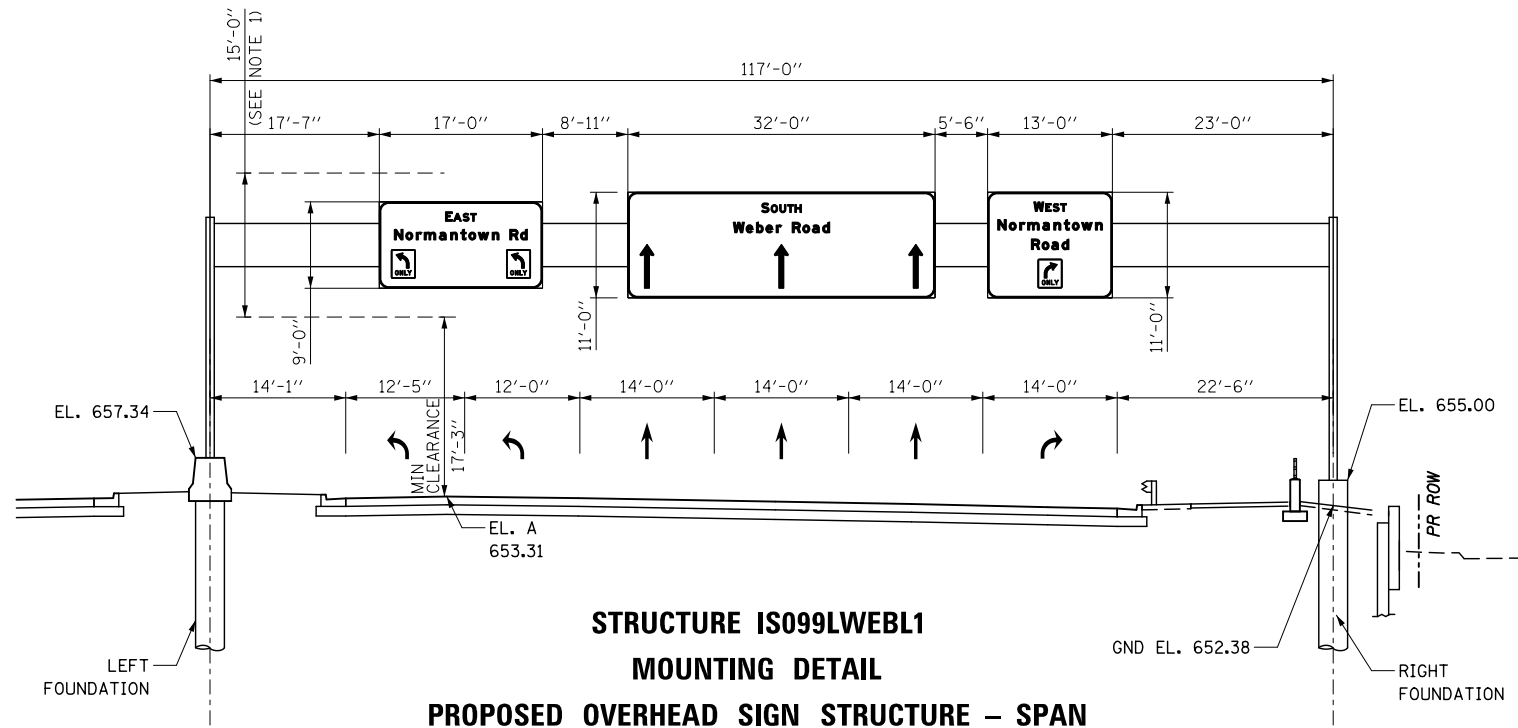
USER NAME = mmaestra	DESIGNED BAB	REVISED - -
PLOT SCALE = 1:10	DRAWN CJD	REVISED - -
PLOT DATE = 6/15/2017	CHECKED MAK	REVISED - -
	DATE 06/16/17	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS - PLAN VIEW

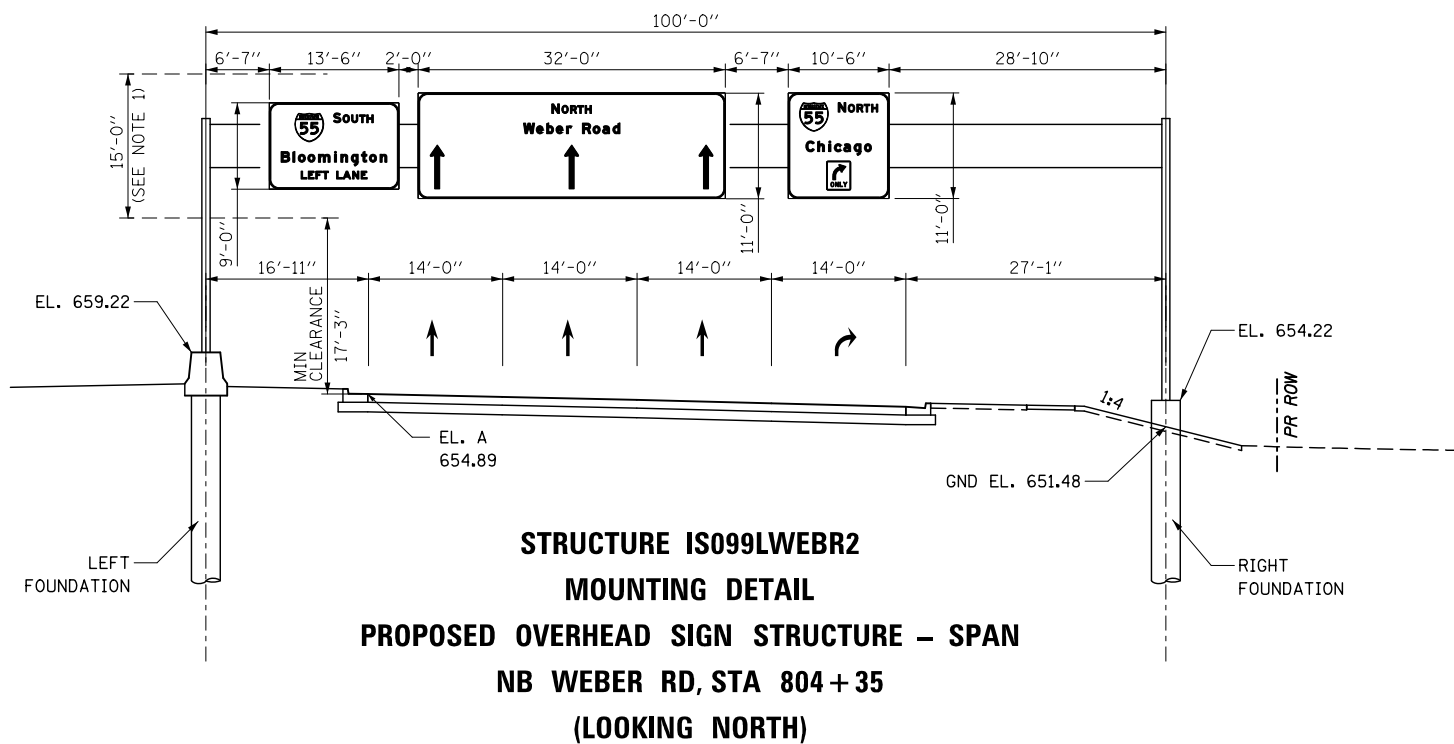
SCALE: AS SHOWN SHEET NO. 5A OF 5 SHEETS STA. _____ TO STA. _____

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	718A
SPM-43A		CONTRACT NO. 60X10		
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

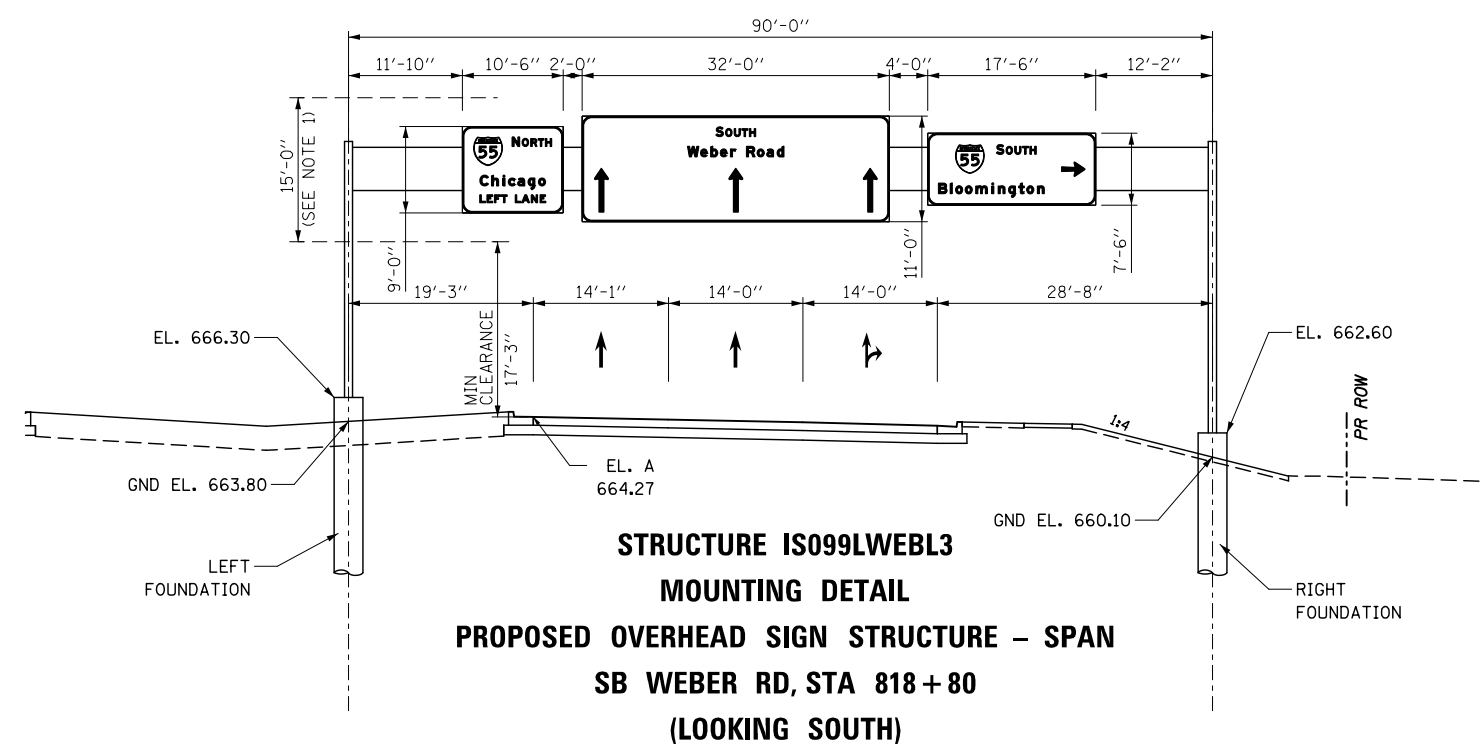


STRUCTURE IS099LWEBL1
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – SPAN
SB WEBER RD, STA 803+75
(LOOKING SOUTH)

NOTES
 1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT (15')



STRUCTURE IS099LWEBR2
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – SPAN
NB WEBER RD, STA 804+35
(LOOKING NORTH)



STRUCTURE IS099LWEBL3
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – SPAN
SB WEBER RD, STA 818+80
(LOOKING SOUTH)

FILE NAME = D:\60X10-shr-44-SignElevation\01.dgn



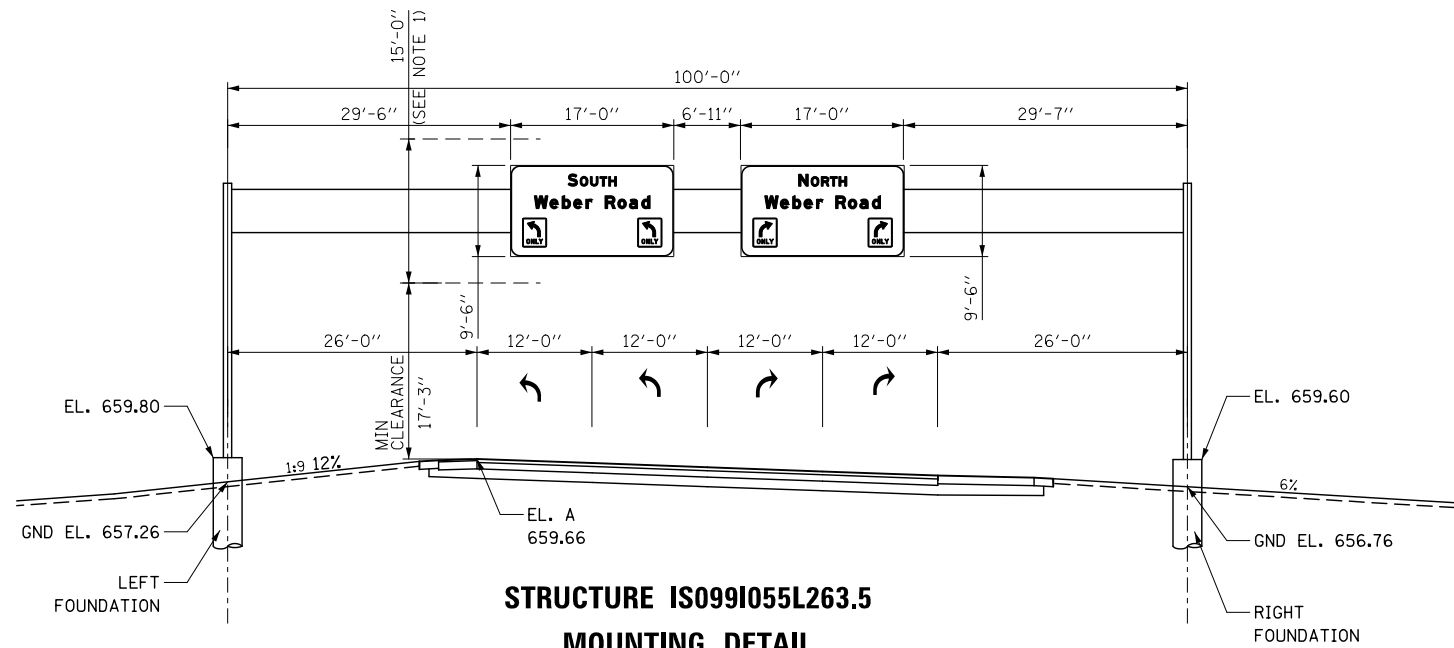
USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:100	DRAWN CJD	REVISED -
PLOT DATE = 6/15/2017	CHECKED MAK	REVISED -
	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS – ELEVATION VIEW

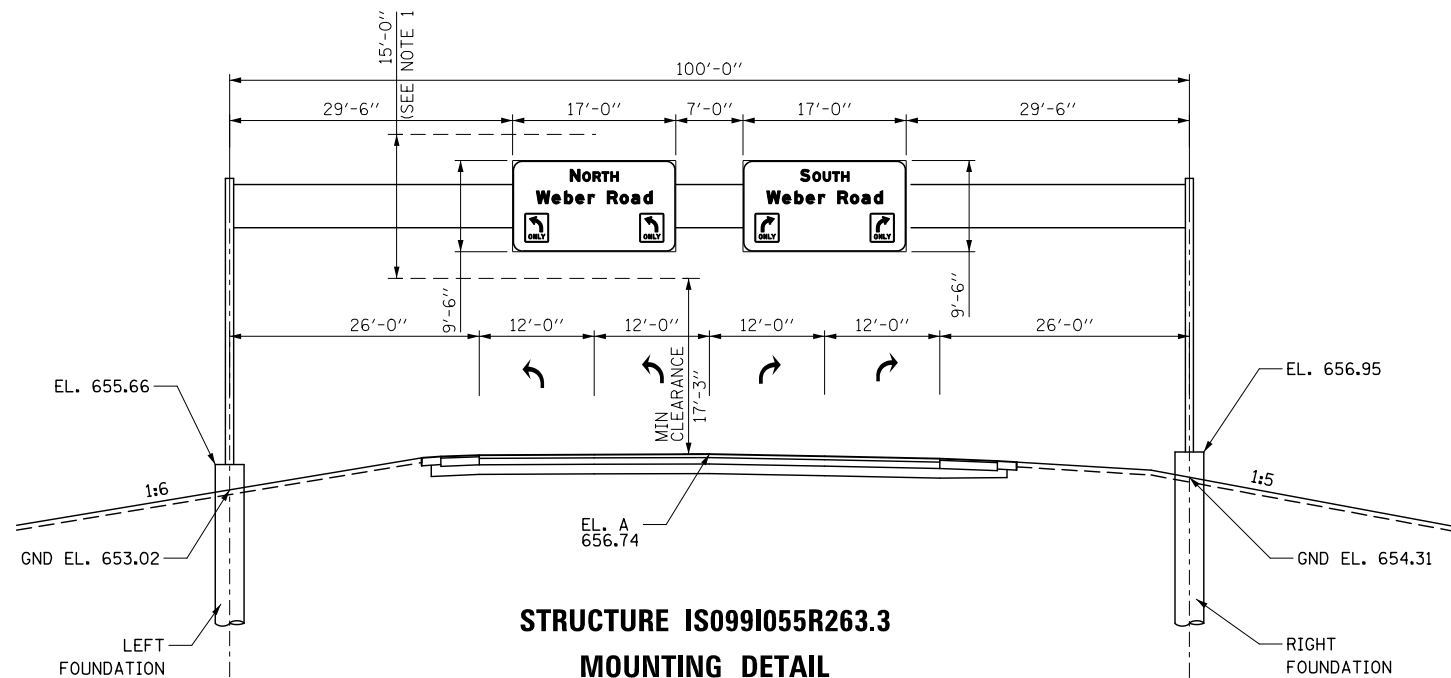
SCALE: AS SHOWN SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	719
SPM-44			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



STRUCTURE IS0991055L263.5
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – SPAN
I55 RAMP A, STA 4995 + 50
(LOOKING WEST)

- NOTES**
 1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT (15')



STRUCTURE IS0991055R263.3
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – SPAN
I55 RAMP C, STA 7997 + 00
(LOOKING EAST)

FILE NAME = D:\60X10-shr-45-SignElevation02.dgn



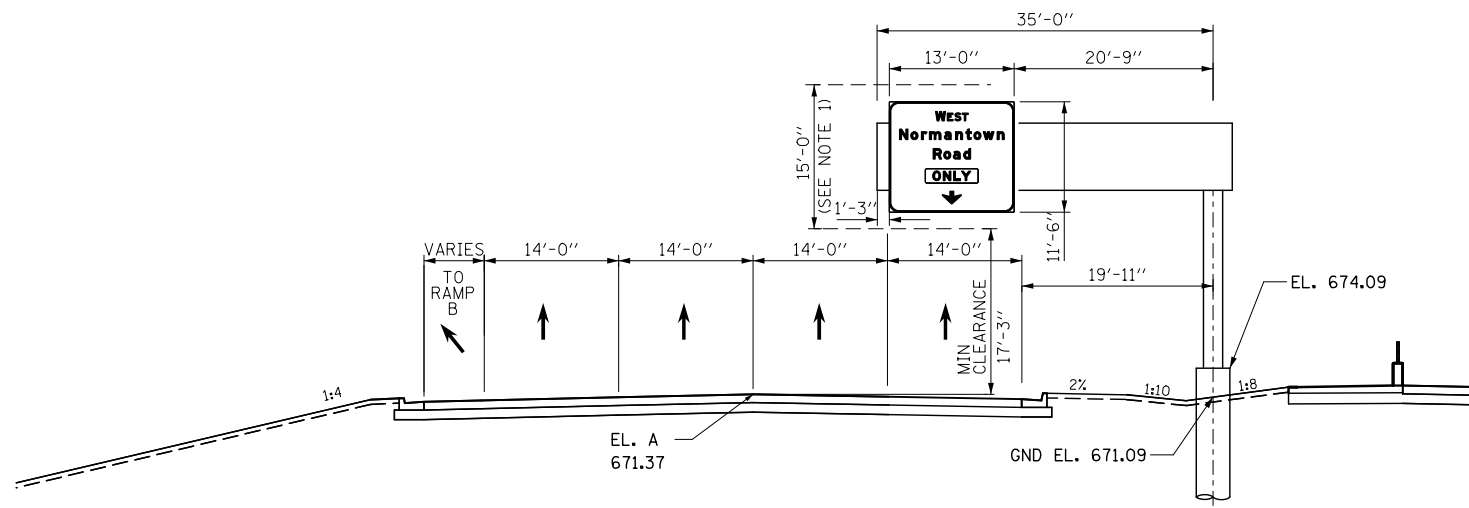
USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:100	DRAWN CJD	REVISED -
PLOT DATE = 6/27/2017	CHECKED MAK	REVISED -
	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS – ELEVATION VIEW

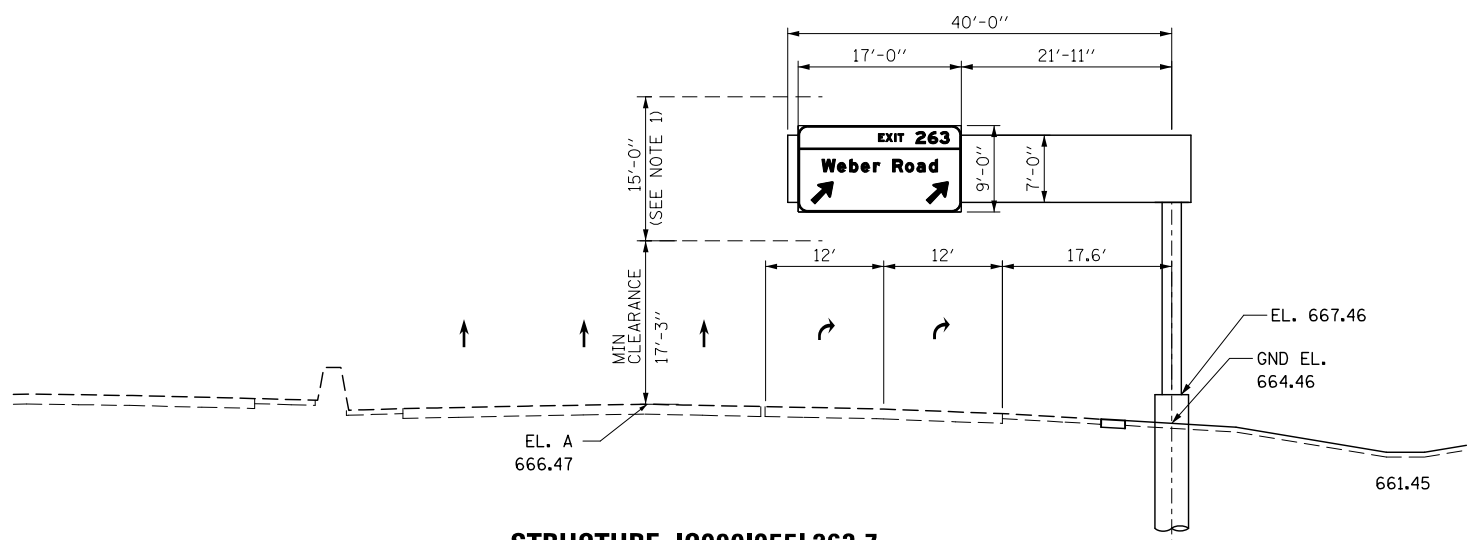
SCALE: AS SHOWN SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	720
SPM-45			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

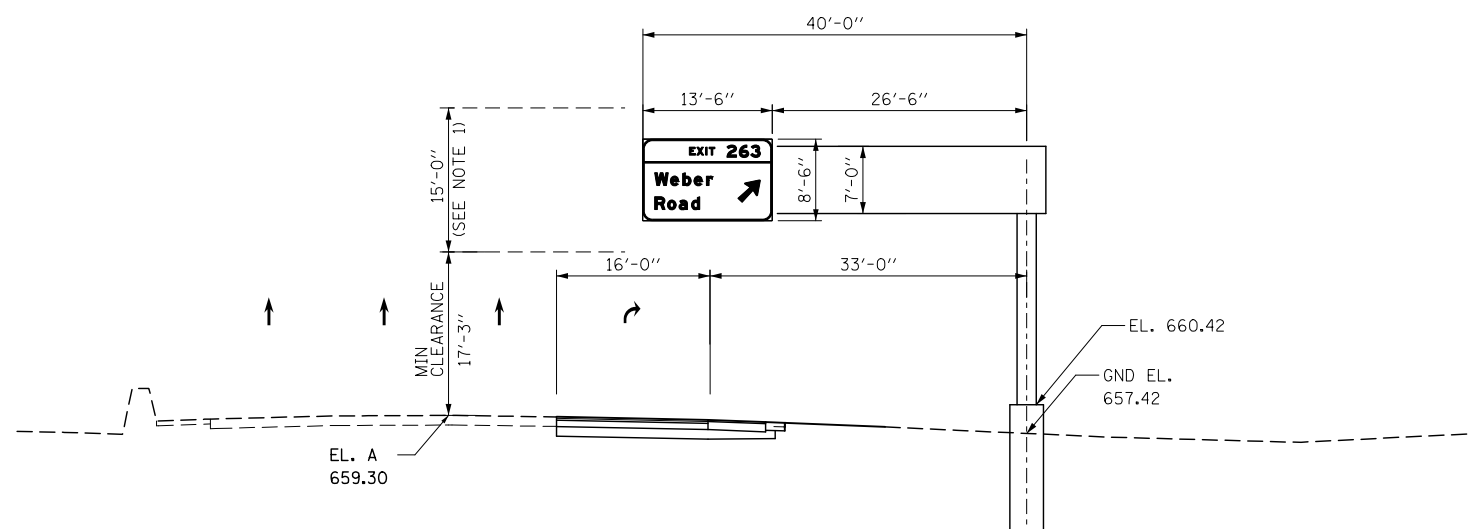


STRUCTURE IC099LWEBR1
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – CANTILEVER
SB WEBER RD, STA 809 + 96
(LOOKING SOUTH)

NOTES
 1. THEORETICAL MINIMUM SIGN DESIGN HEIGHT (15')



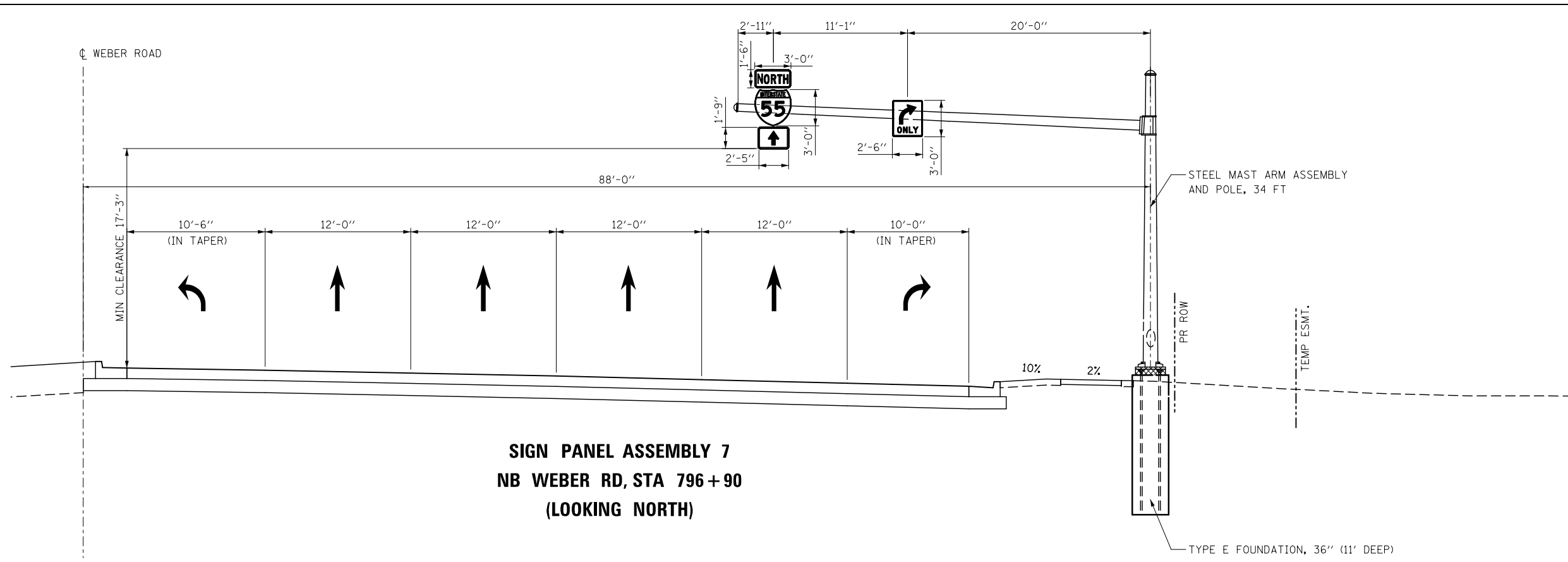
STRUCTURE IC099I055L263.7
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – CANTILEVER
RAMP A, STA 4985 + 00
(LOOKING SOUTHWEST)



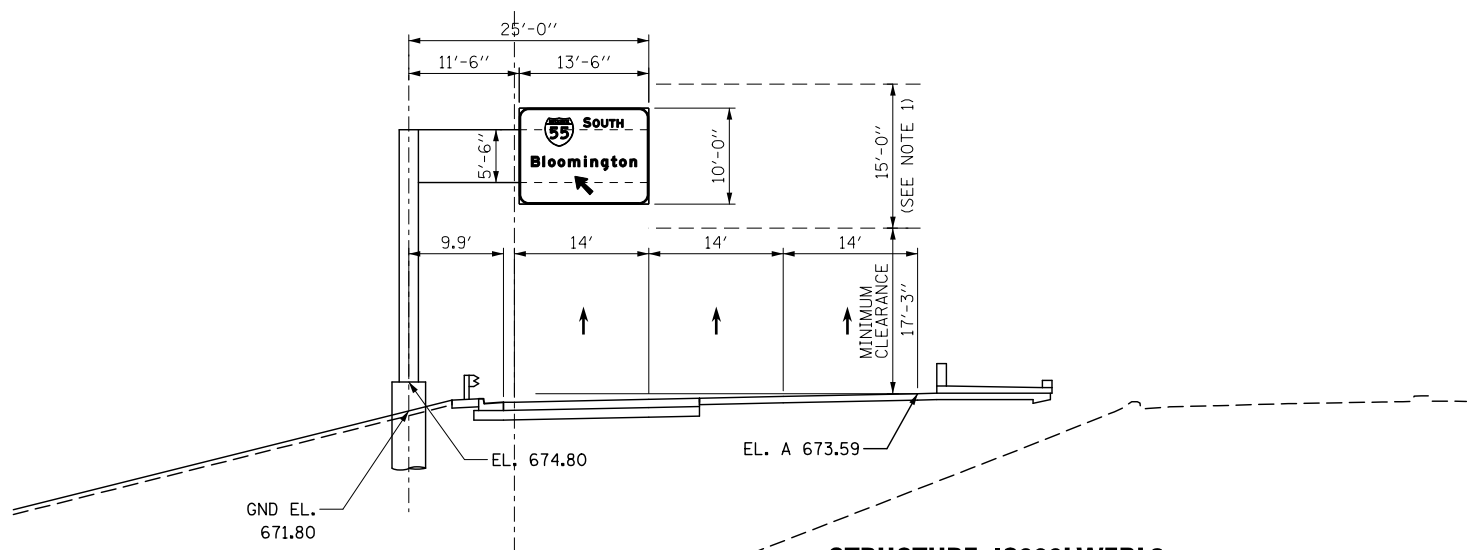
STRUCTURE IC099I055R263.1
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – CANTILEVER
RAMP C, STA 7984 + 05
(LOOKING NORTHEAST)

FILE NAME = D:\60X10-shr-45-SignElevation03.dgn

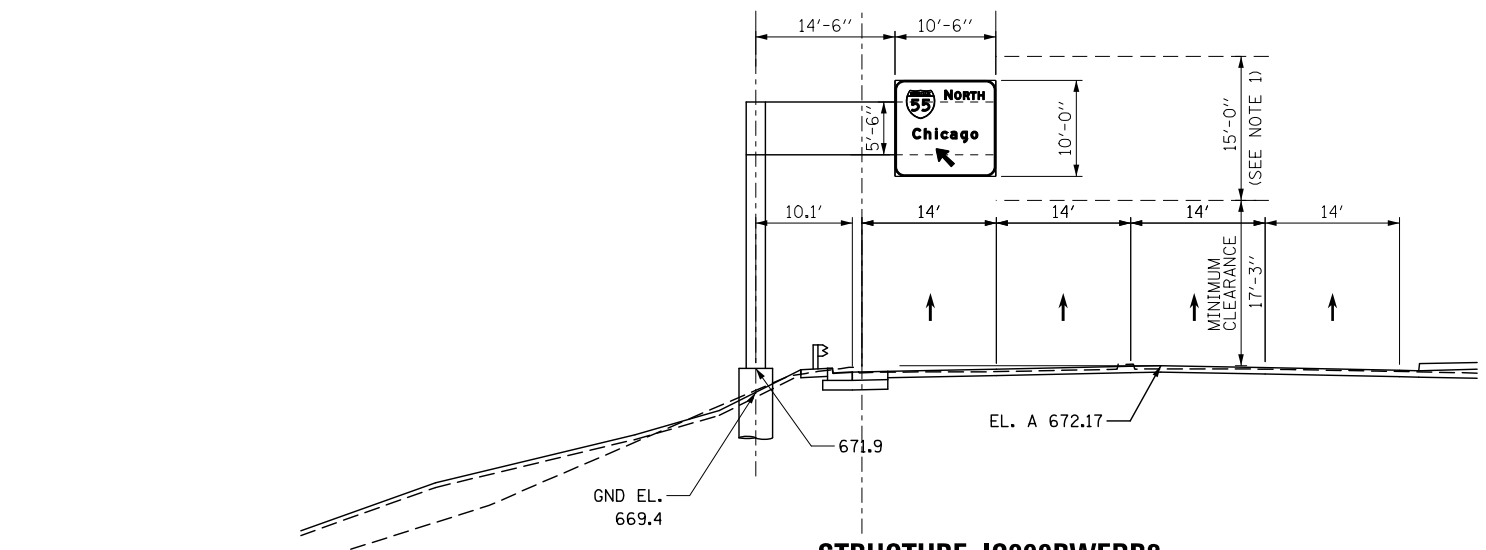
	THE RODERICK GROUP 1327 W WASHINGTON BLVD SUITE 10 CHICAGO, IL 60607 www.rodgr.com	USER NAME = mmaestro PLOT SCALE = 1:100 PLOT DATE = 6/15/2017	DESIGNED BAB DRAWN CJD CHECKED MAK DATE 06/16/17	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS – ELEVATION VIEW			F.A.I./P RTE.	SECTION (99-1HB-1) R-1	COUNTY WILL	TOTAL SHEETS 1508	SHEET NO. 721	
							SCALE: AS SHOWN	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.	SPM-46 * FAI 55, FAP 856 ILLINOIS FED. AID PROJECT			



SIGN PANEL ASSEMBLY 7
NB WEBER RD, STA 796 + 90
(LOOKING NORTH)



STRUCTURE IC099LWEBL3
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – CANTILEVER
WEBER RD, STA 812 + 98
(LOOKING NORTH)



STRUCTURE IC099RWEBR2
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE – CANTILEVER
WEBER RD, STA 810 + 52
(LOOKING SOUTH)

FILE NAME = D:\60X10-shr-47-SignElevation.dgn

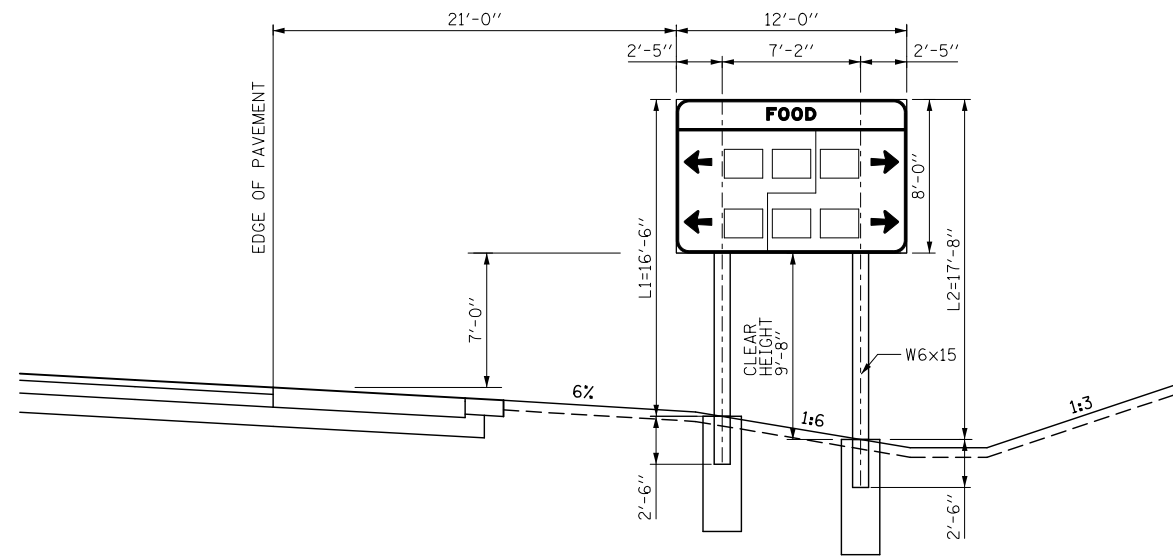
THE RODERICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 30
 CHICAGO, IL 60607
 www.rodgr.com

USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:100	DRAWN CJD	REVISED -
PLOT DATE = 6/15/2017	CHECKED MAK	REVISED -
	DATE 06/16/17	REVISED -

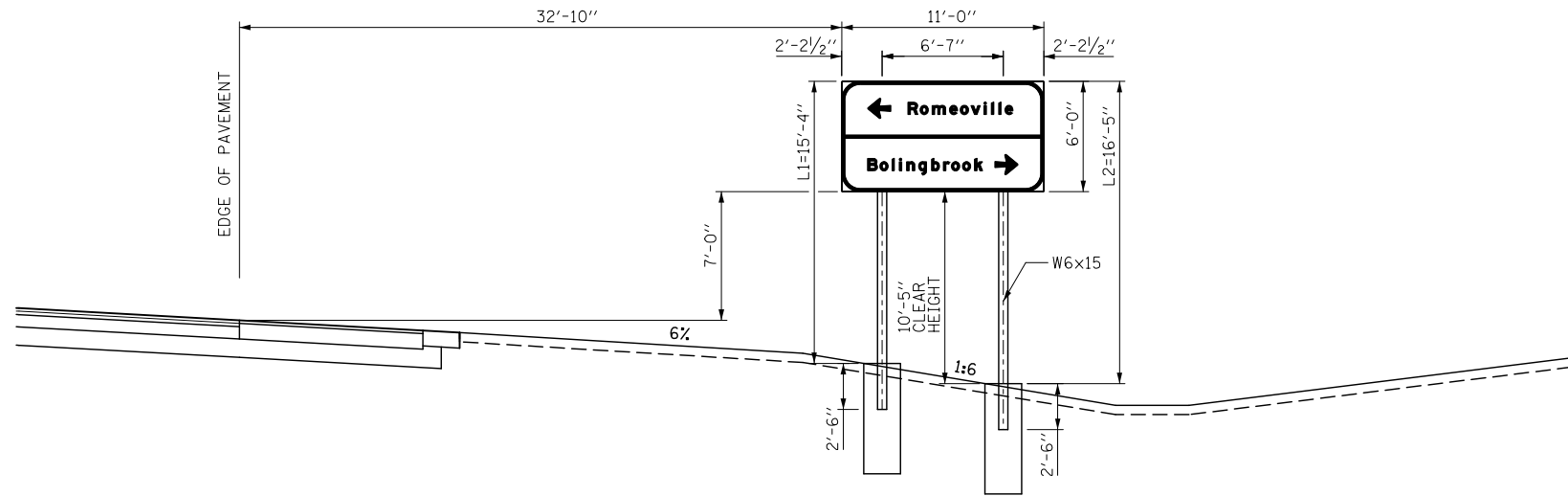
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS – ELEVATION VIEW
 SCALE: AS SHOWN SHEET NO. 4 OF 6 SHEETS STA. TO STA.

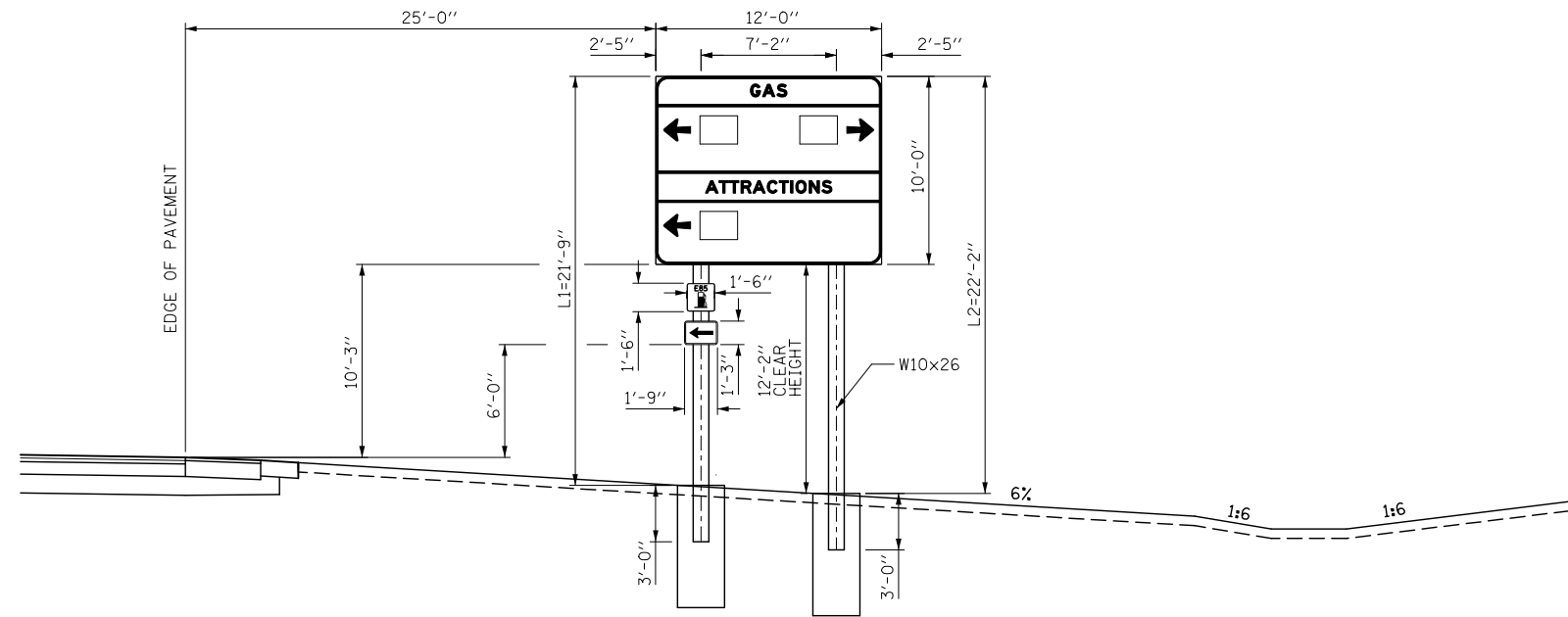
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	722
SPM-47			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



WB-RA-BS-276(REL)
WB RAMP A, STA 4991 + 00
(LOOKING WEST)



WB-RA-BS-279(REL)
WB RAMP A, STA 4994 + 50
(LOOKING WEST)



WB-RA-BS-287(REL)
WB RAMP A, STA 4997 + 50
(LOOKING WEST)

FILE NAME = D:\60X10-shr-4B-5ignElevation05.dgn



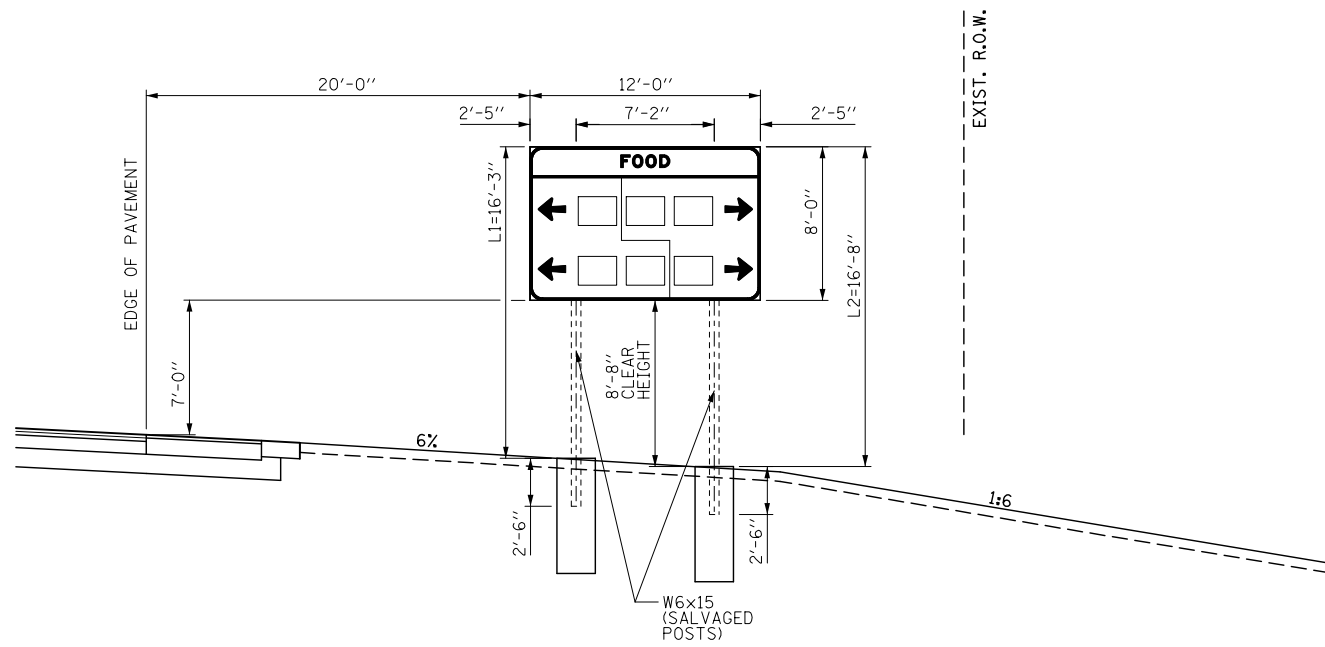
USER NAME = mmaestro	DESIGNED BAB	REVISED -
PLOT SCALE = 1:100	DRAWN CJD	REVISED -
PLOT DATE = 5/13/2017	CHECKED MAK	REVISED -
	DATE 05/12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

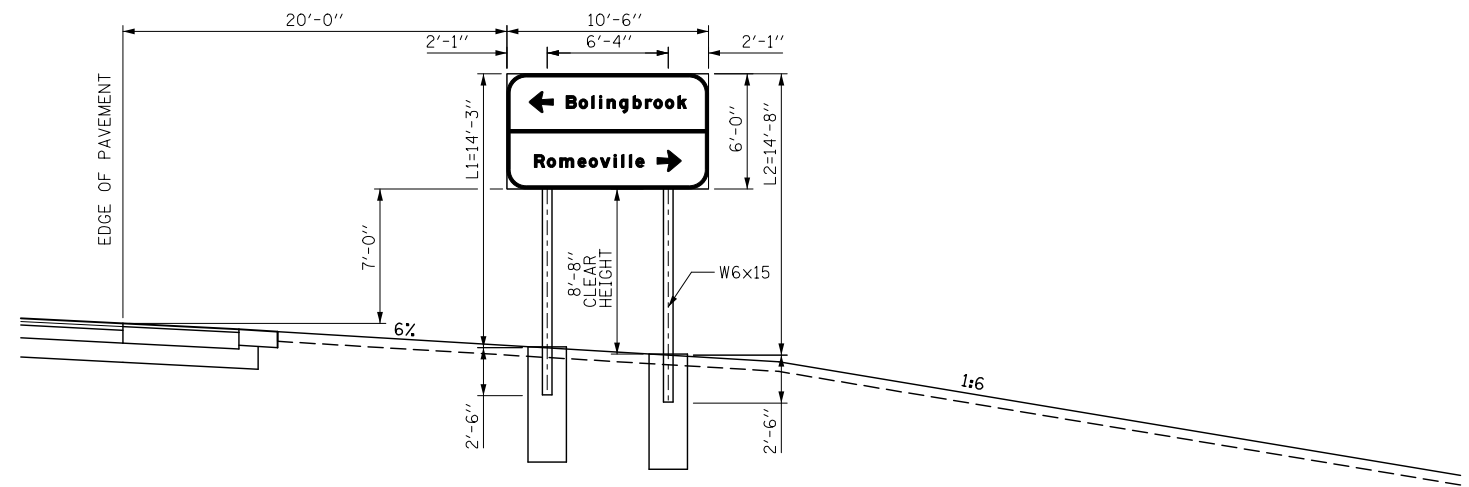
SIGN PANEL DETAILS - ELEVATION VIEW

SCALE: AS SHOWN SHEET NO. 5 OF 6 SHEETS STA. TO STA.

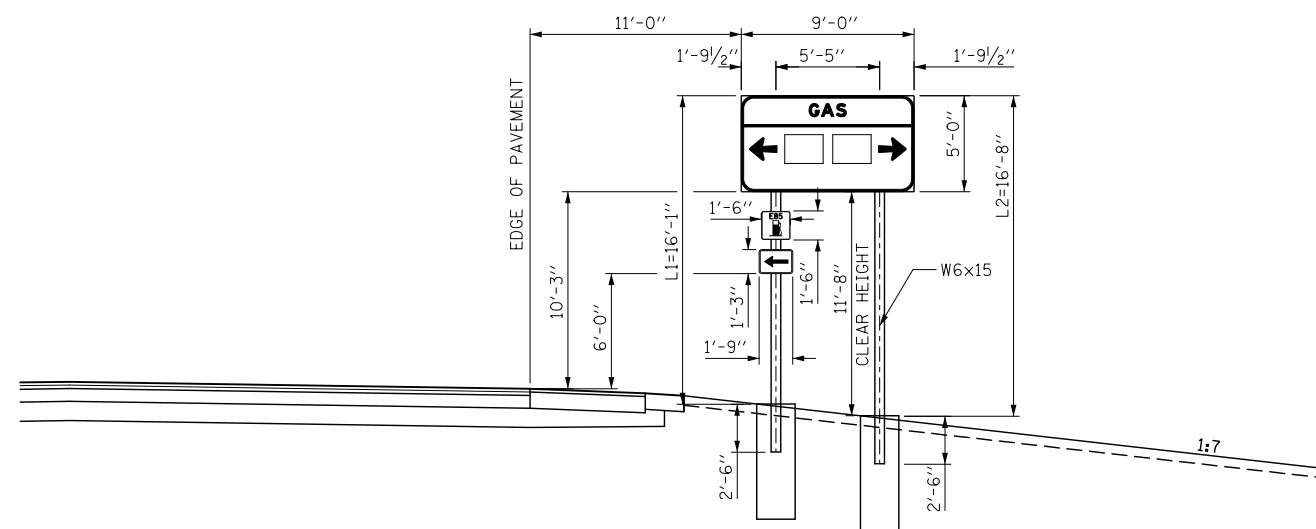
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	723
SPM-48			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



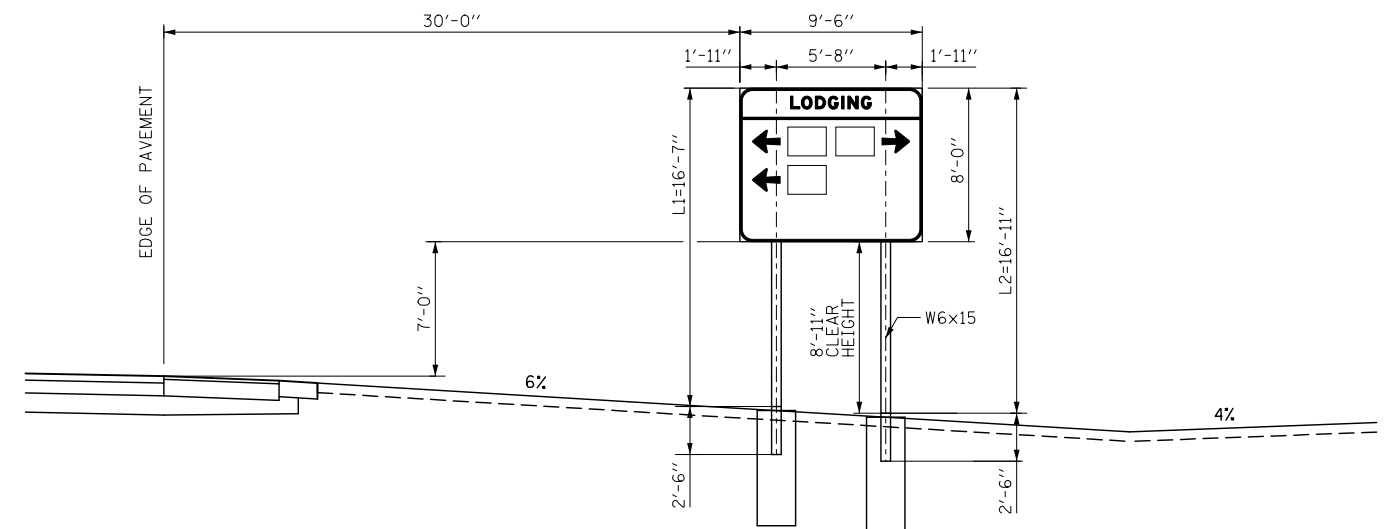
EB-RC-BS-262(REL)
EB RAMP C, STA 7992 + 50
(LOOKING EAST)



EB-RC-BS-264(REL)
EB RAMP C, STA 7994 + 00
(LOOKING EAST)



SIGN PANEL ASSEMBLY 192
EB RAMP C, STA 7997 + 25
(LOOKING EAST)



EB-RC-BS-242(REL)
EB RAMP C, STA 7988 + 00
(LOOKING EAST)

FILE NAME = D:\60X10-shr-49-SignElevation06.dgn

THE RODERICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 10
 CHICAGO, IL 60607
 www.rodgr.com

USER NAME = mmaestro
 PLOT SCALE = 1:100
 PLOT DATE = 5/13/2017

DESIGNED BAB
 DRAWN CJD
 CHECKED MAK
 DATE 05/12/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS - ELEVATION VIEW

SCALE: AS SHOWN SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	724
SPM-49			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

OVERHEAD SIGN STRUCTURE IS099I055L263.5
NORTH LEG SOIL BORING LOG

OVERHEAD SIGN STRUCTURE IS099LWEBL3
WEST LEG SOIL BORING LOG

OVERHEAD SIGN STRUCTURE IS099LWEBL3
EAST LEG SOIL BORING LOG

SOIL BORING LOG

Page 1 of 1
Date 10/16/14

ROUTE Weber Road DESCRIPTION Proposed Weber Road & I-55 Improvements LOGGED BY JJR
SECTION Normantown Road to 135th Street/Romeo Road LOCATION Overhead Sign, SEC. , TWP. , RNG. ,
COUNTY Will County DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DESCRIPTION	DEPTH (ft)	BLOW COUNT	UNIFIED SOIL CLASSIFICATION	MOISTURE (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)
NA	Surface Water Elev.	NA					
NA	Stream Bed Elev.	NA					
OS-06	Groundwater Elev. First Encounter	None					
4995+50	Upon Completion	None					
58.00ft RT	After NA Hrs.	NA					
658.00	Ground Surface Elev.						
657.00	Gray, Moist FILL: SAND, with gravel	3	5	3.5	18		
	Brown and Gray, Moist FILL: SILTY CLAY, trace gravel	8	8	P			
		5					
		7	6.3	16			
		12	B				
		4					
		7	6.3	17			
		8	B				
		4					
		10	6.7	17			
		14	B				
		-10					
645.50	Very Stiff to Hard Gray, Moist SILTY CLAY, trace gravel (CL/ML)	4	7.5	19			
		8	B				
		10					
		4					
		7	5.0	18			
		9	B				
		-15					
		3					
		6	4.4	20			
		8	B				
		2					
		4	2.1	21			
		6	B				
		-20					
618.00	End of Boring						

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Page 1 of 1
Date 10/20/14

ROUTE Weber Road DESCRIPTION Proposed Weber Road & I-55 Improvements LOGGED BY JH
SECTION Normantown Road to 135th Street/Romeo Road LOCATION Overhead Sign, SEC. , TWP. , RNG. ,
COUNTY Will County DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DESCRIPTION	DEPTH (ft)	BLOW COUNT	UNIFIED SOIL CLASSIFICATION	MOISTURE (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)
NA	Surface Water Elev.	NA					
NA	Stream Bed Elev.	NA					
OS-07	Groundwater Elev. First Encounter	None					
818+80	Upon Completion	None					
126.00ft LT	After NA Hrs.	NA					
659.00	Ground Surface Elev.						
658.50	6 inches of Topsoil						
	Brown, Moist FILL: SILTY CLAY, trace sand	4	6	5.0	21		
		8	8	P			
		655.50					
	Brown, Moist FILL: SILTY CLAY, with sand and gravel	4	5	4.5	19		
		6	6	P			
		-5					
		653.00					
	Very Stiff to Hard Brown, Moist SILTY CLAY (CL/ML)	4	10	5.0	19		
		9	9	P			
		4					
		8	4.0	18			
		10	10	B			
		-10					
		4					
		7	4.2	18			
		9	B				
		4					
		2					
		4	3.3	19			
		5	8	B			
		-15					
		643.00					
	Stiff to Hard Gray, Moist SILTY CLAY (CL/ML)	5	7	2.8	18		
		7	7	P			
		3					
		3	2.7	19			
		7	B				
		-20					
619.00	End of Boring						

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Page 1 of 1
Date 10/17/14

ROUTE Weber Road DESCRIPTION Proposed Weber Road & I-55 Improvements LOGGED BY JH
SECTION Normantown Road to 135th Street/Romeo Road LOCATION Overhead Sign, SEC. , TWP. , RNG. ,
COUNTY Will County DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	DESCRIPTION	DEPTH (ft)	BLOW COUNT	UNIFIED SOIL CLASSIFICATION	MOISTURE (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)
NA	Surface Water Elev.	NA					
NA	Stream Bed Elev.	NA					
OS-08	Groundwater Elev. First Encounter	None					
818+80	Upon Completion	None					
53.00ft LT	After NA Hrs.	NA					
663.00	Ground Surface Elev.						
662.50	6 inches of Topsoil						
	Brown, Moist FILL: SILTY CLAY, with sand	2	3	2.0	21		
		4	4	P			
		9					
		9					NR
		3					
		4	2.3	16			
		5	P				
		-5					
		657.00					
	Hard Brown, Moist SILTY CLAY, with sand and gravel (CL/ML)	5	9		8		
		9	9				
		3					
		4	2.1	20			
		6	B				
		8					
		4					
		9	4.5	18			
		9	9	P			
		-10					
		652.00					
	Hard Brown, Moist SILTY CLAY (CL/ML)	7	8	4.6	20		
		8	10	B			
		12					
		16	6.5	16			
		16	16	P			
		-15					
		647.00					
	Very Stiff to Hard Gray, Moist SILTY CLAY (CL/ML)	4	6	2.7	16		
		9	9	B			
		4					
		6	2.9	17			
		9	B				
		-20					
623.00	End of Boring						

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

BBS, form 137 (Rev. 8-99)

FILE NAME = D:\60X10-shr-52-OverheadSigning-soilborings\03.dgn

CANTILEVER SIGN STRUCTURE IC099I055L263.7
SOIL BORING LOG

CANTILEVER SIGN STRUCTURE IC099I055R263.1
SOIL BORING LOG

Page 1 of 1
Date 2/4/15

Illinois Department of Transportation
Division of Highways
GSG CONSULTANTS INC.

SOIL BORING LOG

ROUTE Weber Road DESCRIPTION Proposed Weber Road & I-55 Improvements LOGGED BY NE
SECTION Normantown Road to 135th Street/Romeo Road LOCATION Overhead Sign, SEC., TWP., RNG.,
COUNTY Will County DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T U R E
					Groundwater Elev.: First Encounter <u>None</u> ft Upon Completion <u>None</u> ft After <u>NA</u> Hrs.				
12 inches of Topsoil									
664.00					Stiff to Very Stiff Gray, Moist SILTY CLAY (CL/ML) (continued)				
Brown and Gray, Moist FILL: SILTY CLAY, trace gravel		2				5	2.1	19	
		6	B	20		8	B		
		9				4			
		9	1.3	17		7	2.5	18	
		5	B			8	B		
659.00									
Stiff to Very Stiff Gray, Moist SILTY CLAY (CL/ML)		3				32			
		4	2.1	18		25		13	
		5	B			10			
		3				5			
		5	2.3	22		6	1.5	18	
		5	B			9	B		
		3							
		5	2.3	18					
		4	B						
		3				14			
		5	2.9	19		5	1.9	20	
		7	B			7	B		
630.00					End of Boring				
		2							
		4	1.7	18					
		6	B						
		2							
		5	2.3	18					
		7	B						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

Page 1 of 1
Date 2/13/15

Illinois Department of Transportation
Division of Highways
GSG CONSULTANTS INC.

SOIL BORING LOG

ROUTE Weber Road DESCRIPTION Proposed Weber Road & I-55 Improvements LOGGED BY NE
SECTION Normantown Road to 135th Street/Romeo Road LOCATION Overhead Sign, SEC., TWP., RNG.,
COUNTY Will County DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T U R E
					Groundwater Elev.: First Encounter <u>None</u> ft Upon Completion <u>None</u> ft After <u>NA</u> Hrs.				
12 inches of Topsoil									
657.00					Stiff to Very Stiff Gray, Moist to Very Moist SILTY CLAY (CL/ML) (continued)				
Brown, Moist FILL: SILTY CLAY, trace gravel		5				3			
		8	4.2	17		4	1.7	20	
		10	B			3	B		
		4				3			
Cobbles at 3.5 ft		9	4.0	16		3	2.1	20	
		9	P			5	B		
652.00									
Stiff to Very Stiff Gray, Moist to Very Moist SILTY CLAY (CL/ML)		5				4			
		8	2.5	17		4	2.1	20	
		9	B			5	B		
		6				3			
Cobbles at 8.5 ft		5		18		3	2.3	19	
		5	B			3	B		
		6							
		8		18					
Cobbles at 11 ft		4							
		6		18					
		6							
Cobbles at 13.5 ft		3				3			
		3	1.3	19		4	2.5	20	
		5	P			6	B		
623.00					End of Boring				
		3							
		4	1.9	21					
		4	B						
		3							
		3	2.1	34					
		4	B						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

FILE NAME = D:\60X10-shr-53-OverheadSigning-soilborings84.dgn

KNIGHT Engineers & Architects	USER NAME = mmaestra	DESIGNED GSG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURE SOIL BORING LOGS	F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN PAW	REVISED -	*			(99-1HB-1) R-1	WILL	1508	728	
	PLOT SCALE = 1:2	CHECKED PJO	REVISED -			SPM-53		CONTRACT NO. 60X10		
	PLOT DATE = 5/13/2017	DATE 05/12/17	REVISED -			* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				
			SCALE: NONE	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.					

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:
Field Units
F_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

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

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

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

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

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

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

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

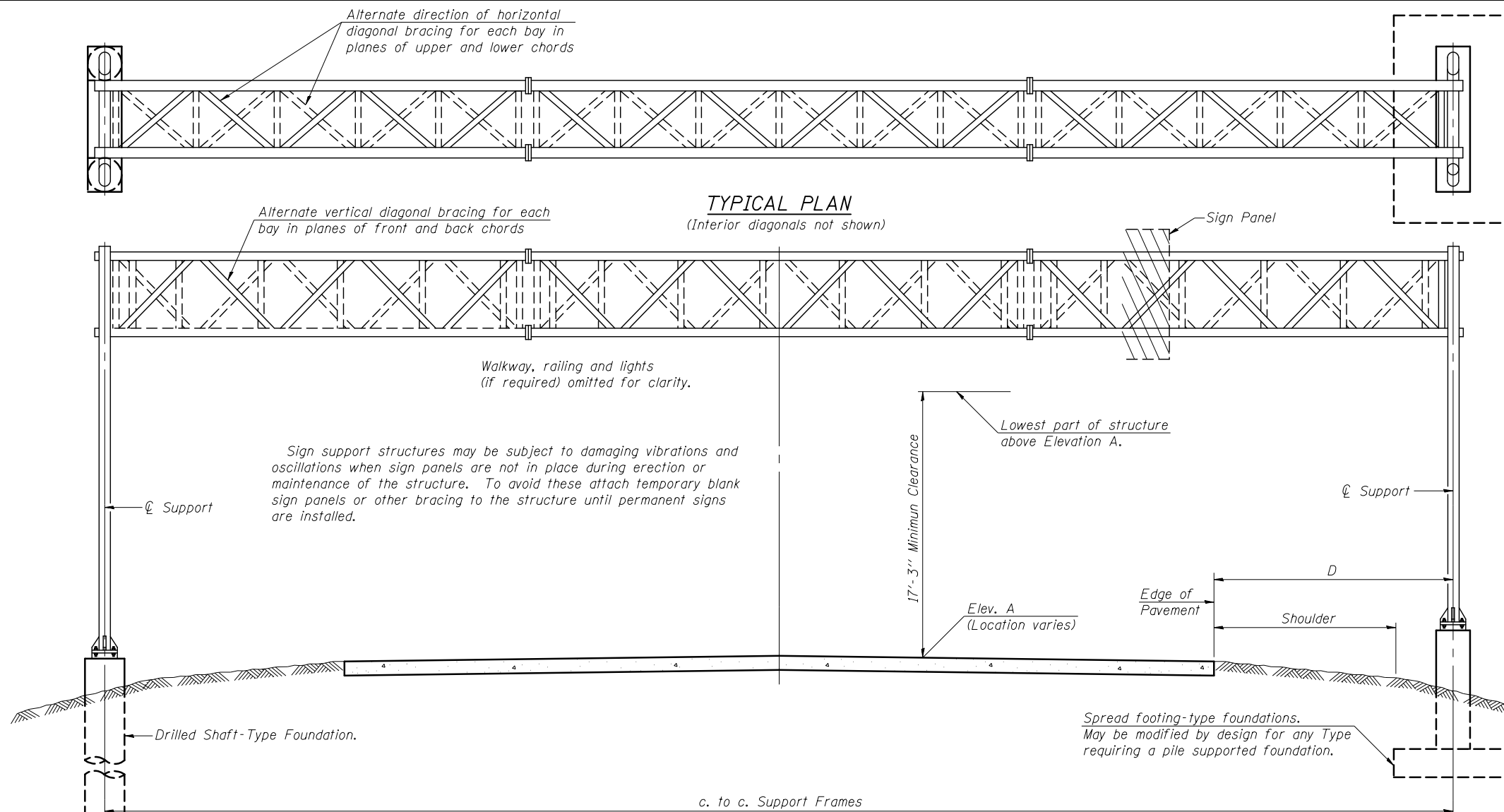
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	507
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	119.0



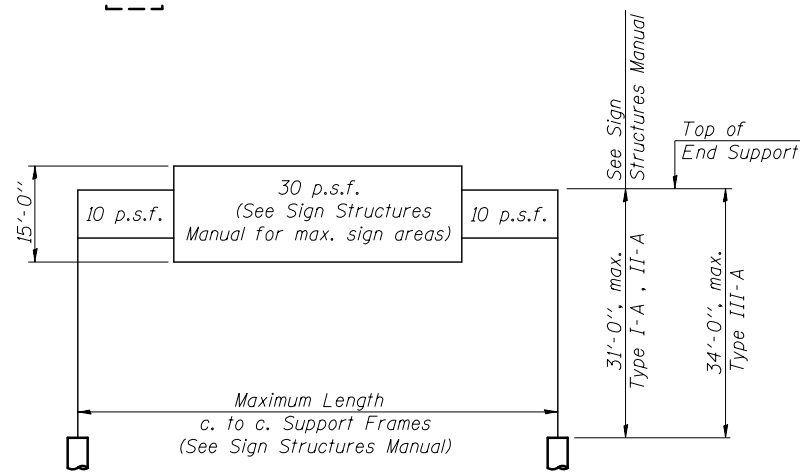
TYPICAL ELEVATION
(Looking at Face of Signs)**

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S0991055L263.5	4995+50	III-A	100'	659.66	26.0'	9.5'	323
1S0991055R263.3	7997+00	III-A	100'	656.74	26.0'	9.5'	323
1S099LWEBL1	803+75	III-A	117'	653.31	22.5'	11'	648
1S099LWEBR2	804+35	III-A	100'	654.89	27.1'	11'	589
1S099LWEBL3	818+80	III-A	90'	664.27	28.7'	11'	577.8

**Looking upstation for structures with signs both sides.

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



DESIGN WIND LOADING DIAGRAM

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

OS-A-1

8-21-13

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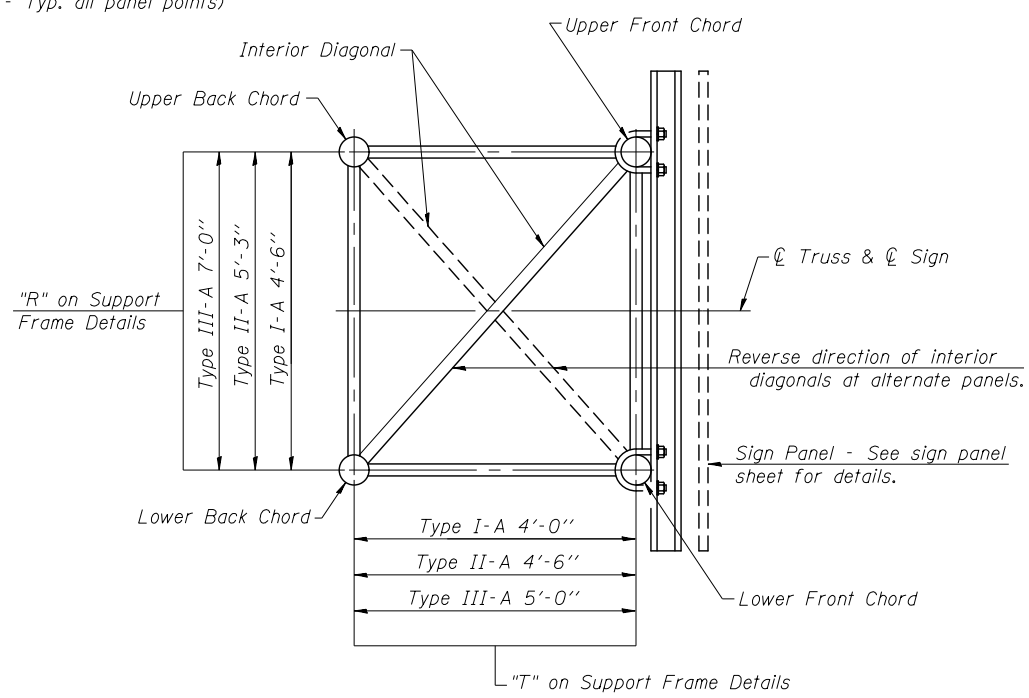
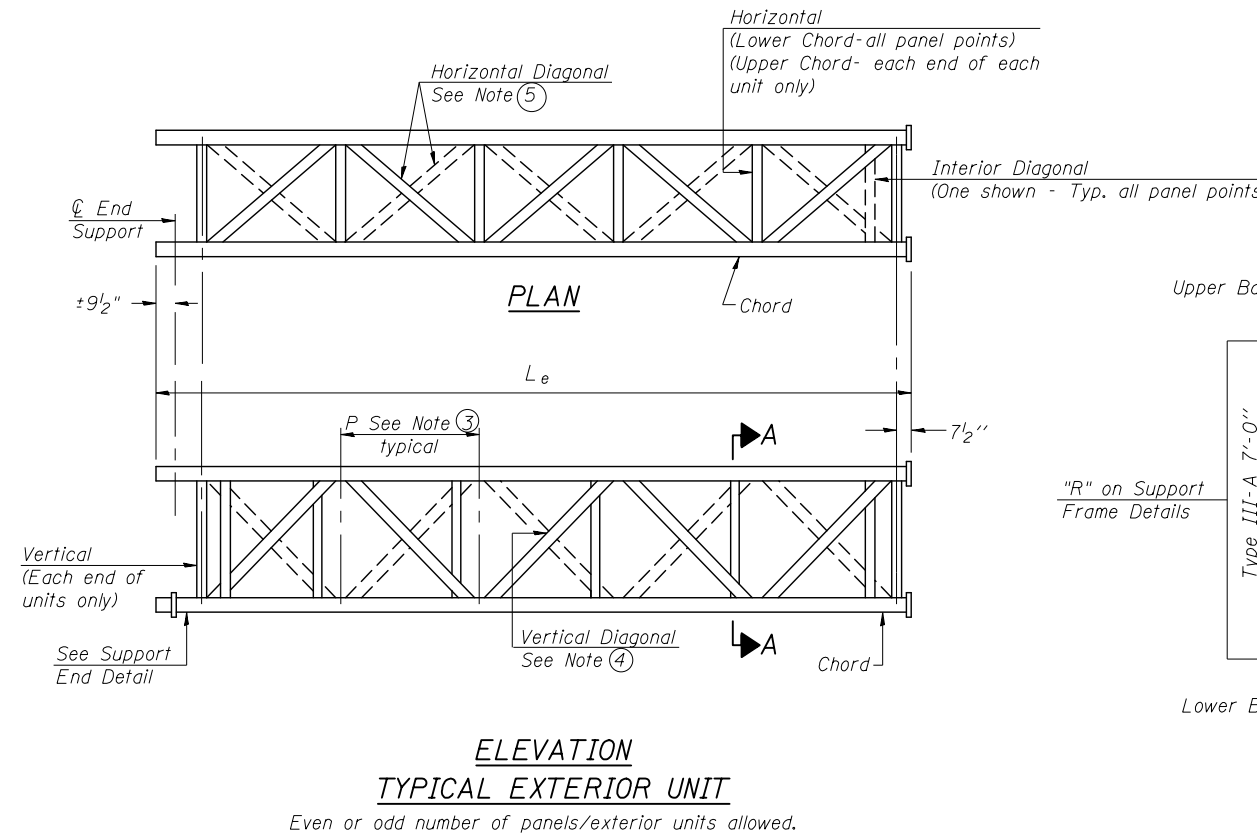
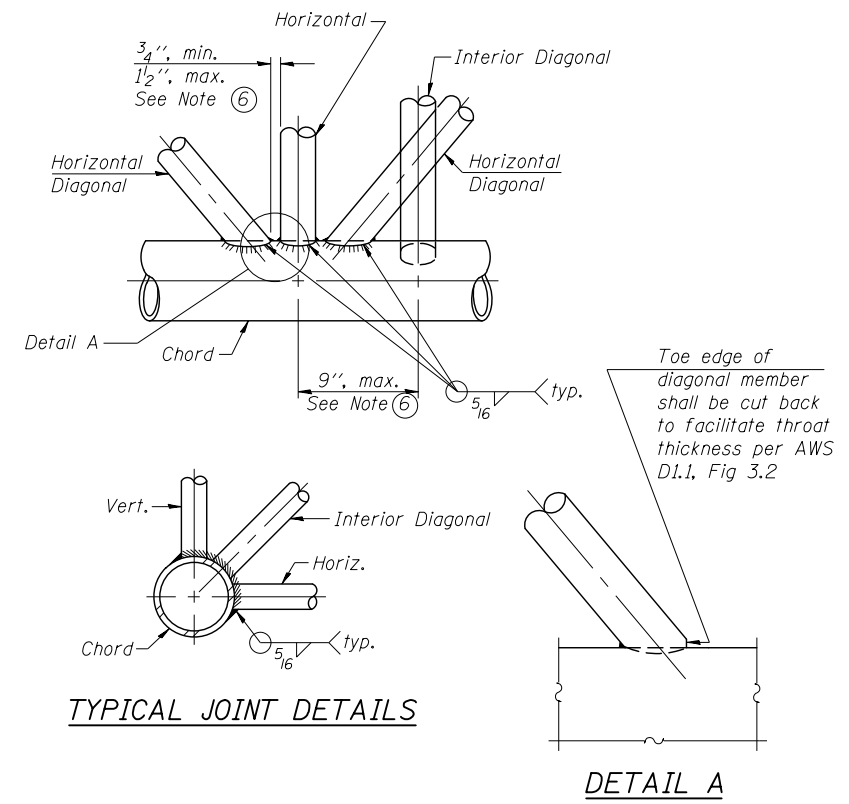
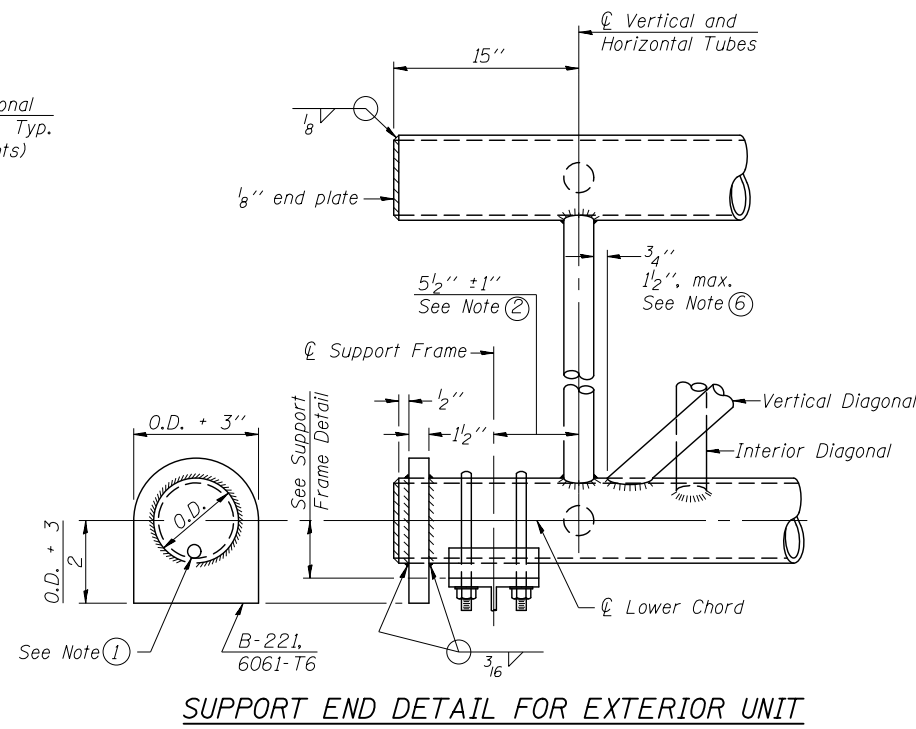
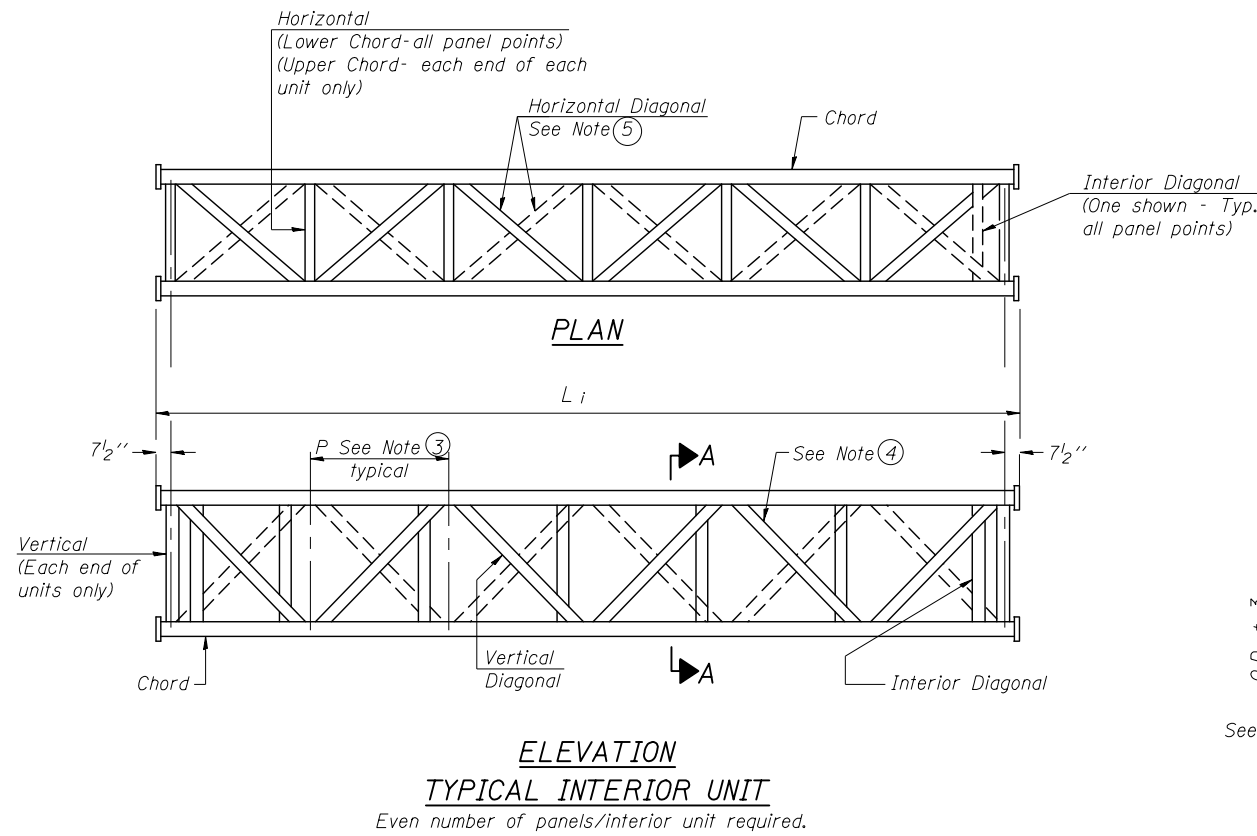
DESIGNED - BAB	REVISION
CHECKED - MJM	REVISION
DRAWN - CJD	REVISION
CHECKED - MAK	REVISION
SCALE - NONE	
DATE - 06/16/17	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS**

SHEET NO. 1 OF 10 SHEETS

F.A.I./P R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	729
SPM-54			CONTRACT NO. 60X10	
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" φ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ± 1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

OS-A-2

6-1-12

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DESIGNED - BAB	REVISION
CHECKED - MJM	REVISION
DRAWN - CJD	REVISION
CHECKED - MAK	REVISION
SCALE - NONE	
DATE - 03/01/17	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

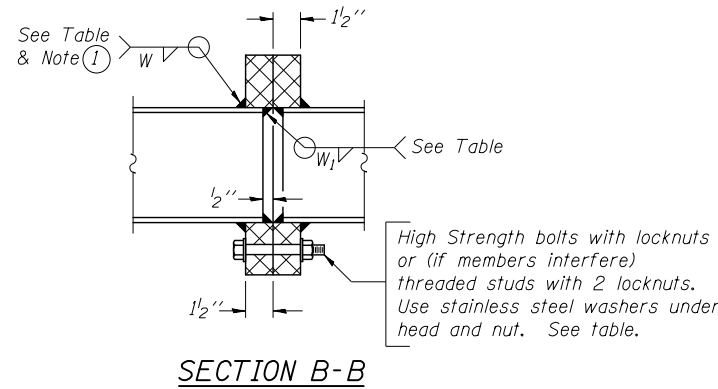
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET NO. 2 OF 10 SHEETS

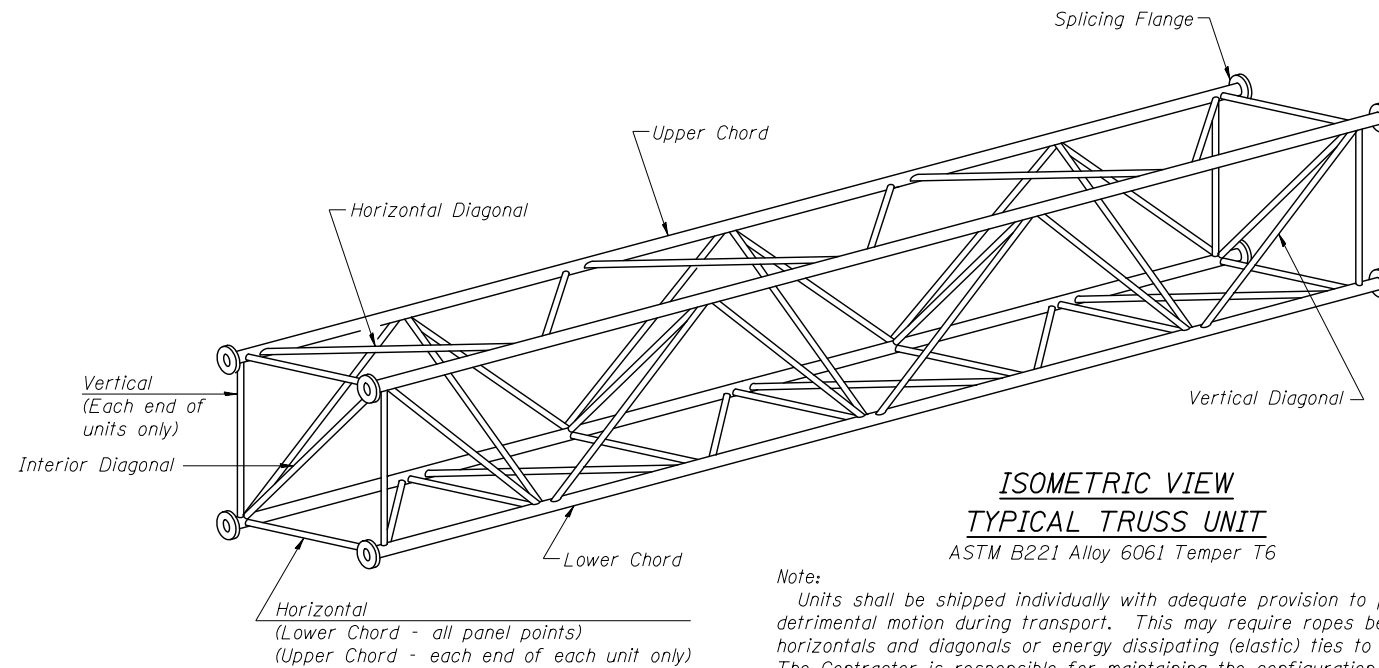
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	730
SPM-55			CONTRACT NO. 60X10	
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

TRUSS UNIT TABLE

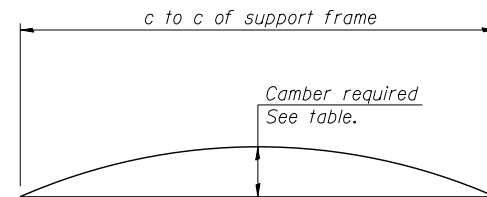
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W ₁		
IS0991055L263.5	4995+50	III-A	6	34'-1 1/2"	5'-4 1/2"	1	6	33'-6"	5'-4 1/2"	7"	5/16"	3/4"	5/16"	2.3"	6	1"	7/16"	5/16"	1 1/2"	15"
IS0991055R263.3	7997+00	III-A	6	34'-1 1/2"	5'-4 1/2"	1	6	33'-6"	5'-4 1/2"	7"	5/16"	3/4"	5/16"	2.3"	6	1"	7/16"	5/16"	1 1/2"	15"
IS099LWEBL1	803+75	III-A	8	39'-8 1/2"	4'-8 3/4"	1	8	39'-1"	4'-8 3/4"	7"	5/16"	3/4"	5/16"	3.13"	6	1"	7/16"	5/16"	1 1/2"	15"
IS099LWEBR2	804+35	III-A	6	34'-1 1/2"	5'-4 1/2"	1	6	33'-6"	5'-4 1/2"	7"	5/16"	3/4"	5/16"	2.3"	6	1"	7/16"	5/16"	1 1/2"	15"
IS099LWEBL3	818+80	III-A	5	28'-11 1/2"	5'-5"	1	6	33'-9"	5'-5"	7"	5/16"	3/4"	5/16"	1.82"	6	1"	7/16"	5/16"	1 1/2"	15"



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

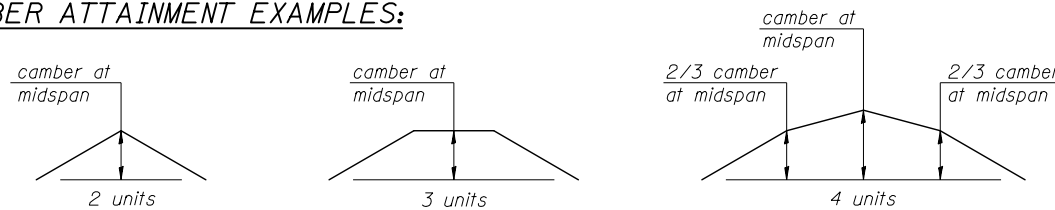


Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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

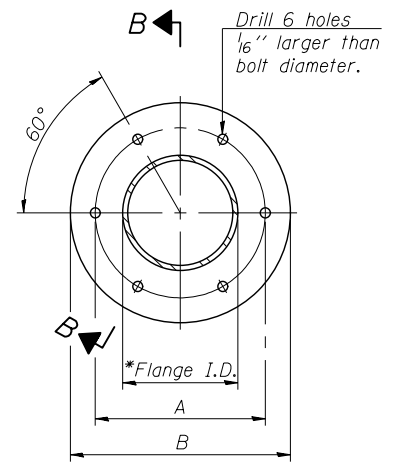


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

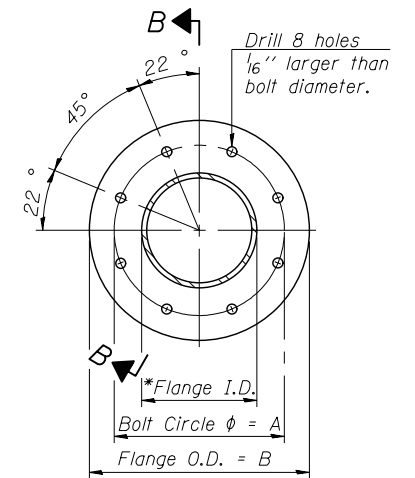
CAMBER ATTAINMENT EXAMPLES:



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



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



TRUSS TYPES II-A & III-A
SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12

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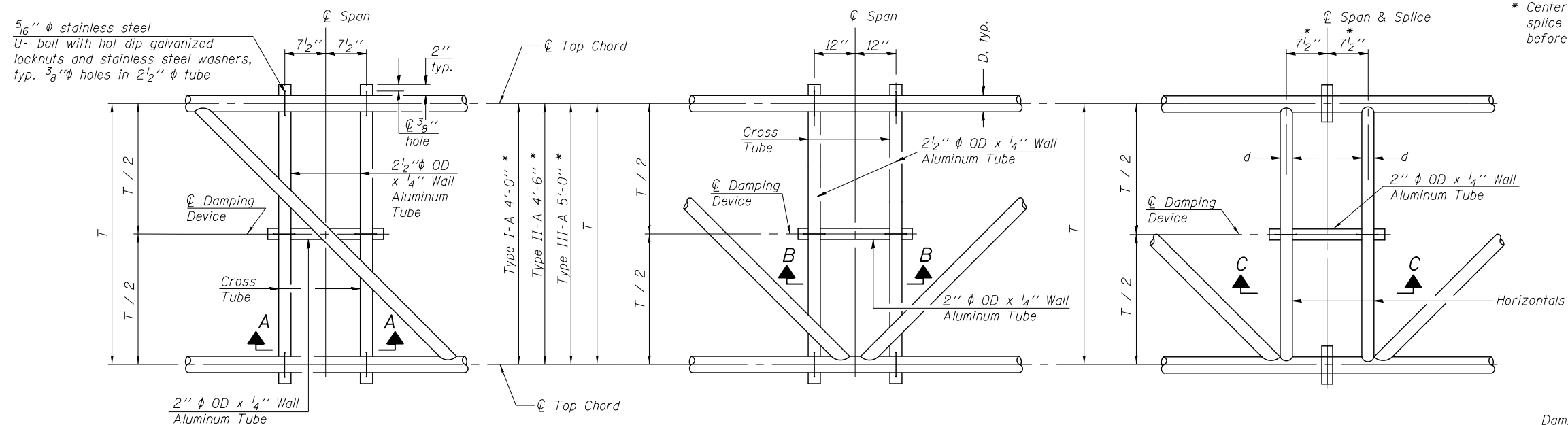
DESIGNED - BAB	REVISED
CHECKED - MJM	REVISED
DRAWN - CJD	REVISED
CHECKED - MAK	REVISED
SCALE - NONE	
DATE - 03/01/17	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SHEET NO. 3 OF 10 SHEETS

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	731
SPM-56		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



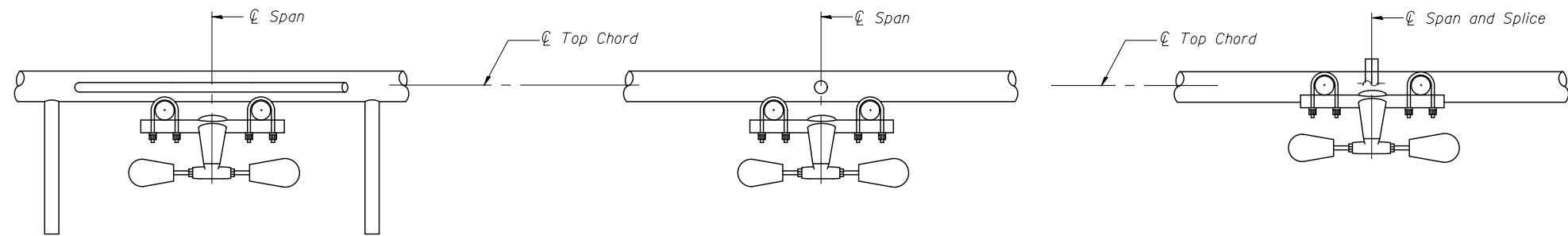
PLAN DETAIL "A"
 ☉ Span between Panel Points

PLAN DETAIL "B"
 ☉ Span at Panel Point

PLAN DETAIL "C"
 ☉ Span at ☉ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

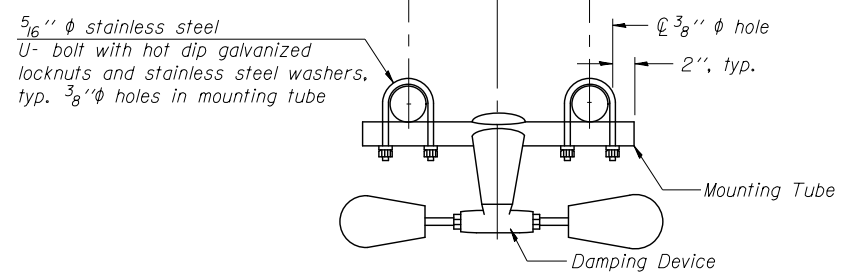
NOTES
 Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
 Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



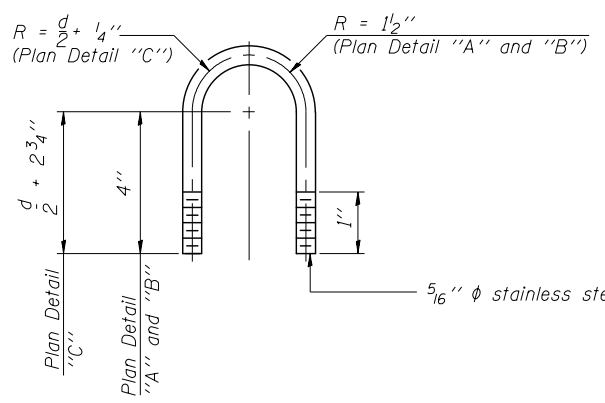
SECTION A-A

SECTION B-B

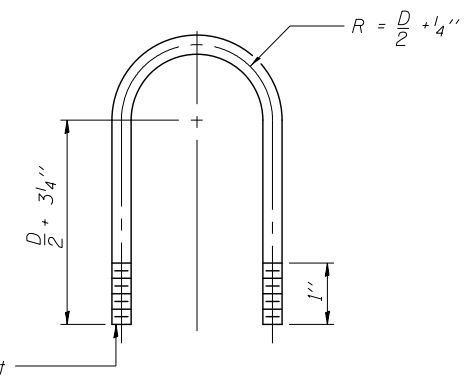
SECTION C-C



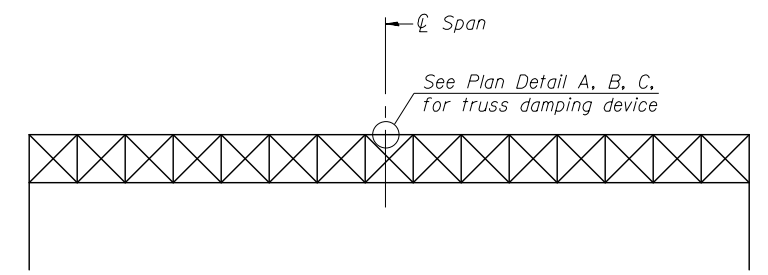
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

OS-A-D

6-1-12

THE RODERICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 10
 CHICAGO, IL 60607
 www.rodgrp.com

DESIGNED - BAB
 CHECKED - MJM
 SCALE - NONE
 DATE - 03/01/17

REVIS
 REVIS
 REVIS
 REVIS

DESIGNED - BAB
 CHECKED - MJM
 DRAWN - CJD
 CHECKED - MAK

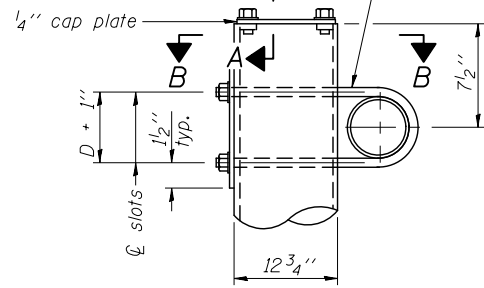
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE**

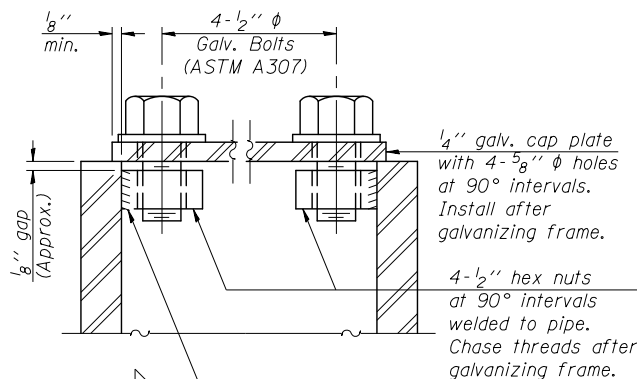
SHEET NO. 4 OF 10 SHEETS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	732
SPM-57		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

$\frac{3}{4}$ " ϕ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
 $\frac{13}{16}$ " x 2" slots on ϕ 12" ϕ pipe.
(4 slots required per pipe)

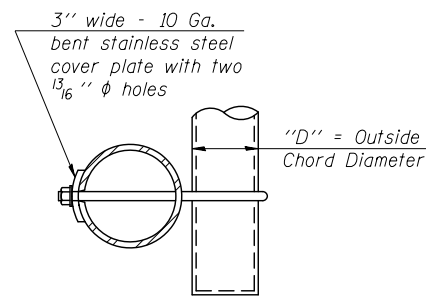


DETAIL A

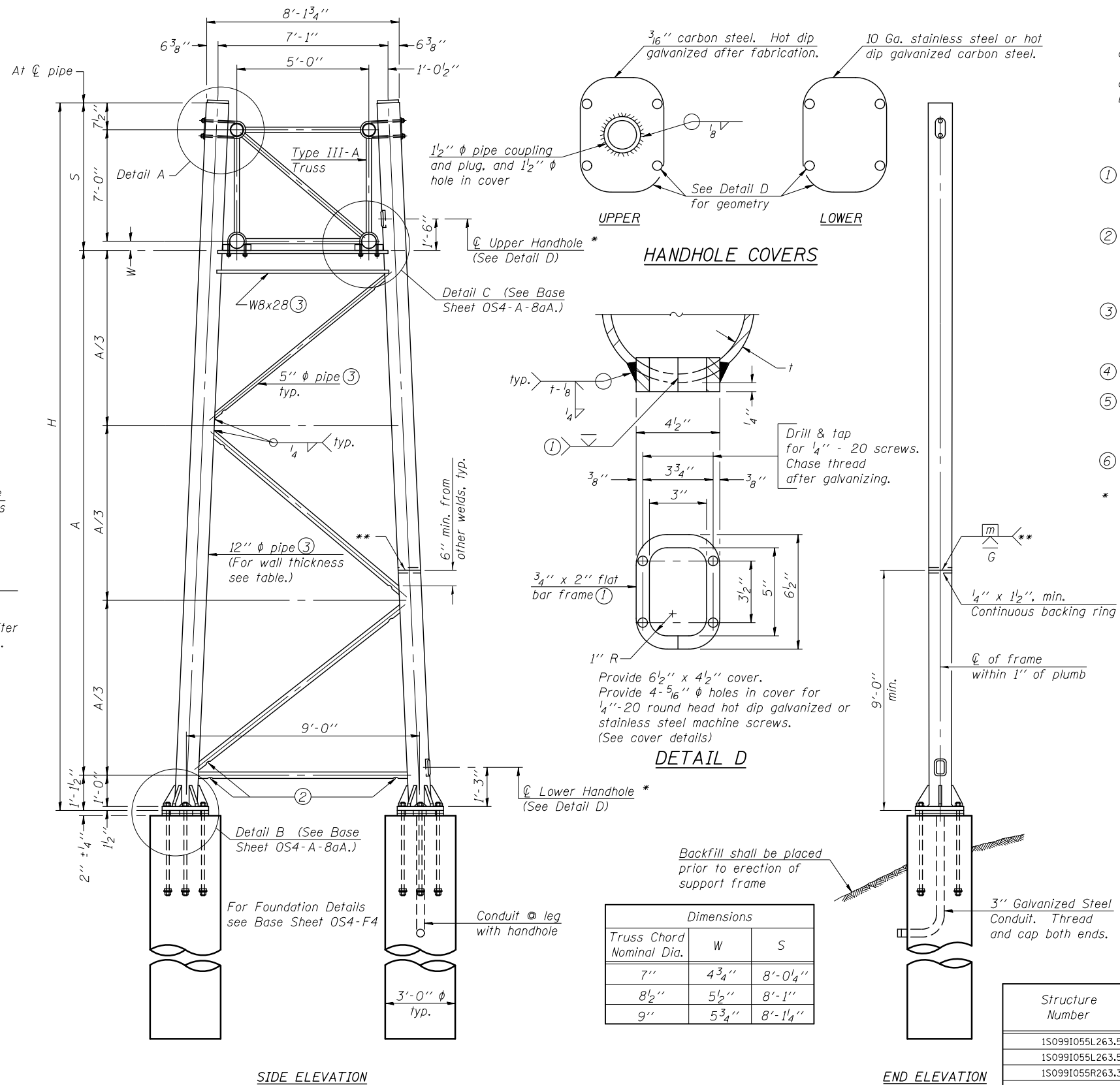


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

TRUSS SUPPORT DETAILS

(12" ϕ Pipe-Type III-A Truss)

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

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 $\frac{3}{4}$ "	8'-0 $\frac{1}{4}$ "
8 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	8'-1"
9"	5 $\frac{3}{4}$ "	8'-1 $\frac{1}{4}$ "

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
1S0991055L263.5	4995+50		X	.33	28.77	19.62
1S0991055L263.5	4995+50	X		.33	28.57	19.42
1S0991055R263.3	7997+00		X	.33	28.50	19.35
1S0991055R263.3	7997+00	X		.33	29.79	20.64
1S099LWEBL1	803+75		X	.33	27.02	17.87
1S099LWEBL1	803+75	X		.33	24.68	15.53
1S099LWEBR2	804+35		X	.33	29.38	20.23
1S099LWEBR2	804+35	X		.33	24.38	15.23
1S099LWEBL3	818+80		X	.33	30.38	21.23
1S099LWEBL3	818+80	X		.33	26.68	17.53

- Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign
- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
 - Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
 - Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
 - See General Notes for fasteners.
 - Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
 - "H" based on 15'-0" or actual sign height, whichever is greater.
- * For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

OS4-A-8a 6-1-12



DESIGNED - BAB	REVISED
CHECKED - MJM	REVISED
DRAWN - CJD	REVISED
CHECKED - MAK	REVISED
SCALE - NONE	
DATE - 03/01/17	

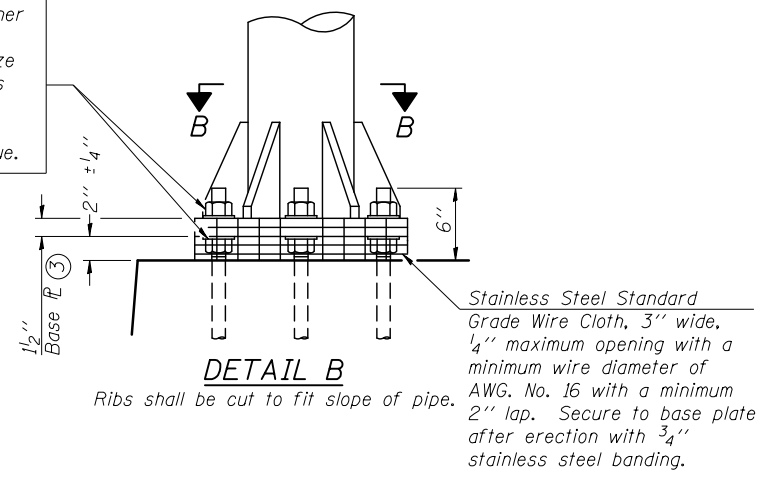
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS

SHEET NO. 5 OF 10 SHEETS

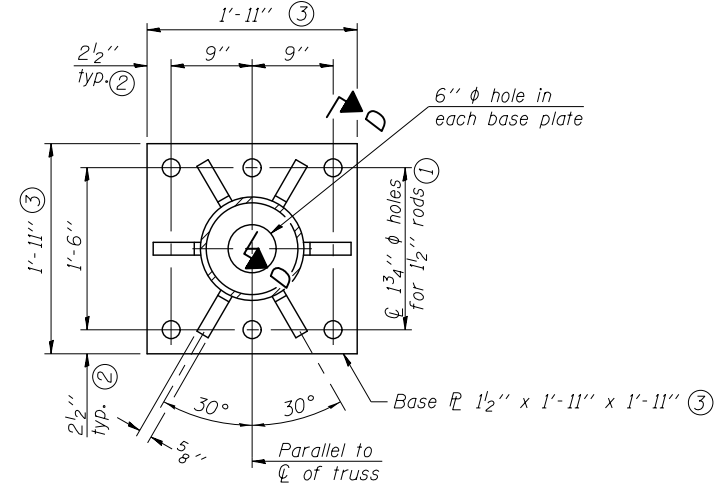
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	733
SPM-58		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

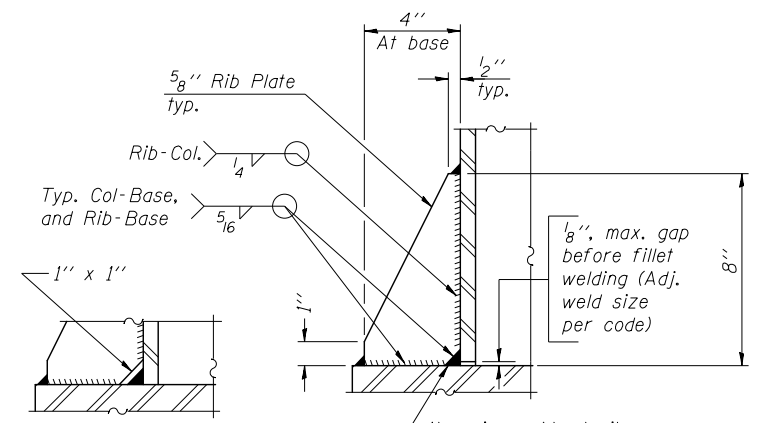


DETAIL B
Ribs shall be cut to fit slope of pipe.

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



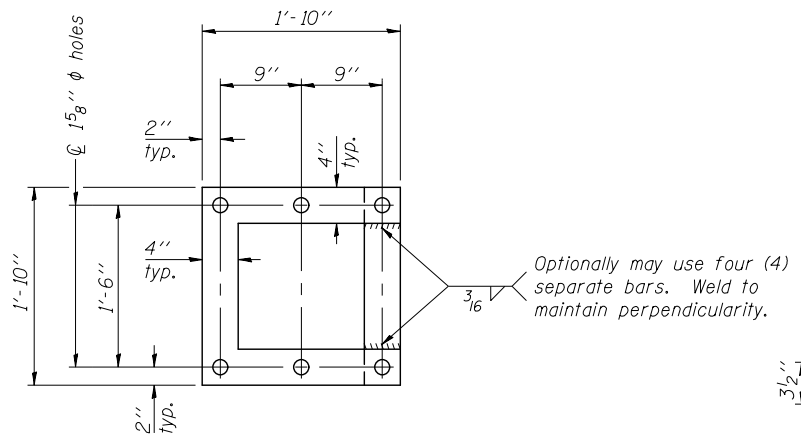
SECTION B-B



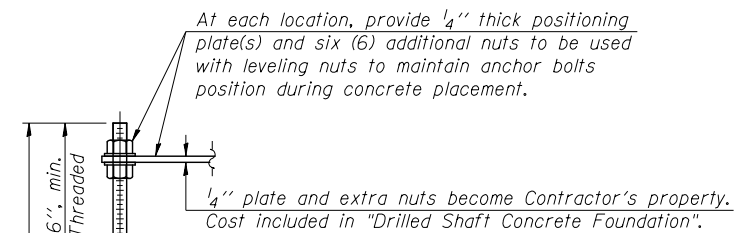
SECTION D-D

** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

No snip req'd. at rib inside corner if placed before col. to base plate welding.**



POSITIONING PLATE(S)



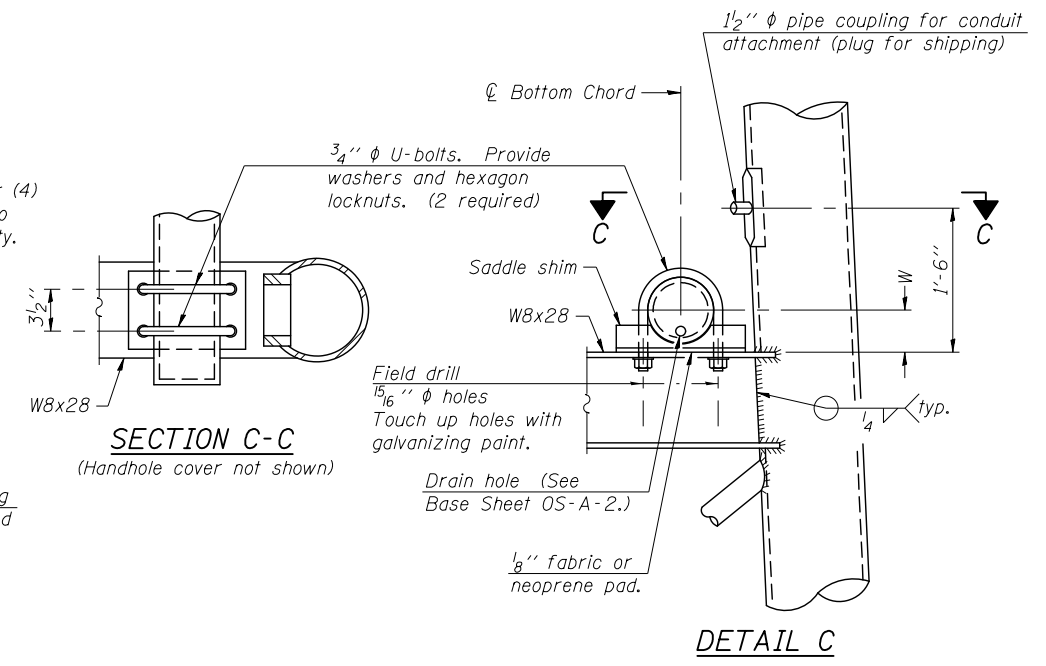
ANCHOR ROD DETAIL

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

**TYPE III-A TRUSS
12" φ PIPE SUPPORT FRAME DETAILS**

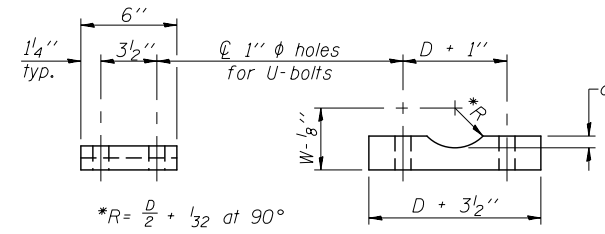
Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- ① 1 3/4" φ rod, 2" φ holes
- ② 2 3/4" edge distance
- ③ Base Pl 1 5/8" x 1' 11 1/2" x 1' 11 1/2"



SECTION C-C
(Handhole cover not shown)

DETAIL C

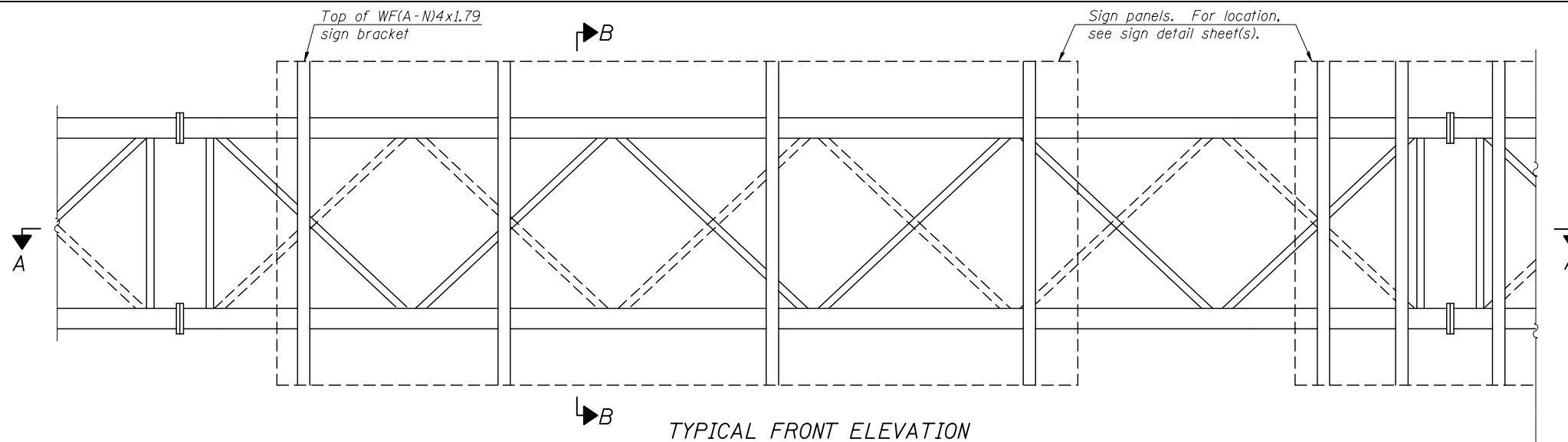


Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

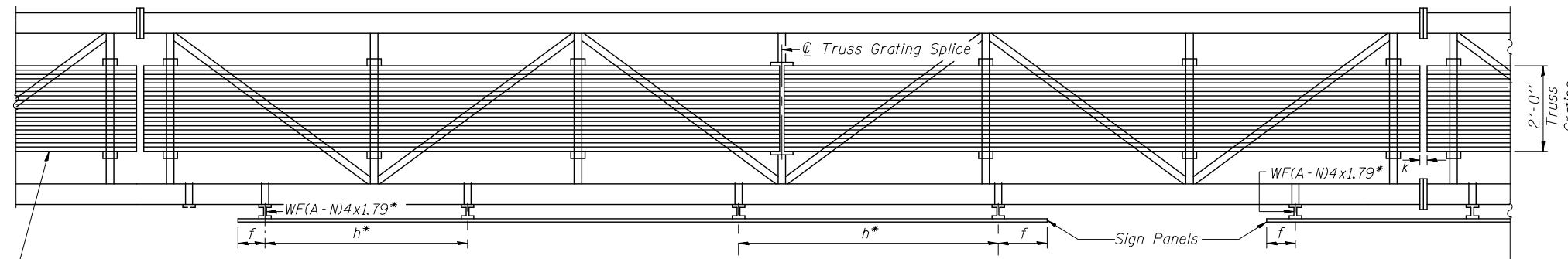
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CHECKED - MJM	REVISED
DRAWN - CJD	REVISED
CHECKED - MAK	REVISED
SCALE - NONE	
DATE - 03/01/17	

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	734
SPM-59			CONTRACT NO. 60X10	
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



TYPICAL FRONT ELEVATION

For Section B-B, see Overhead Sign Structures Aluminum Walkway Details Next Sheet



SECTION A-A

BRACKET TABLE

WF(A-N)4x1.79 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:

* Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ϕ of nearest bracket)

h = 6'-0" maximum (ϕ to ϕ sign support brackets, WF(A-N)4x1.79)

k = 2" maximum gap between adjacent truss grating sections

For Detail T, Section B-B and Grating Splice Details see Overhead Sign Structures Aluminum Walkway Details Next Sheet

Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12"$ on overhead trusses.

Cost of truss grating is included in "Overhead Sign Structure".

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

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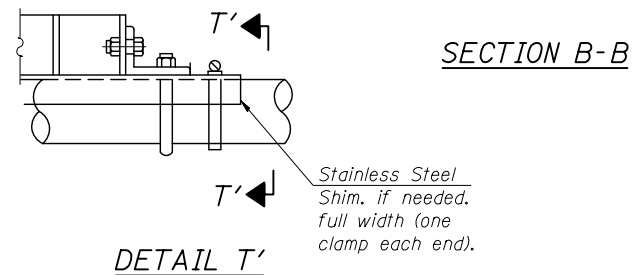
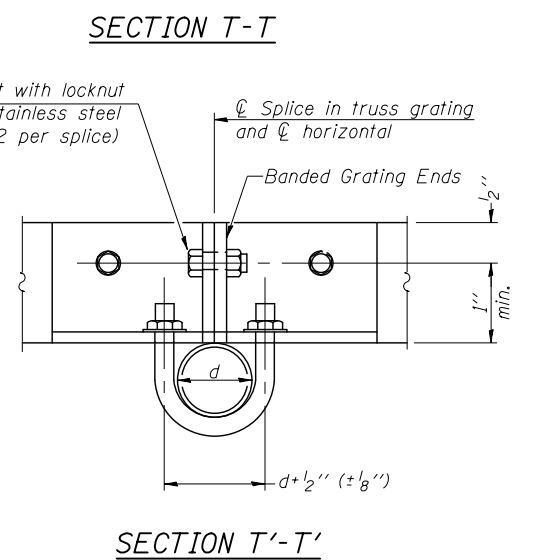
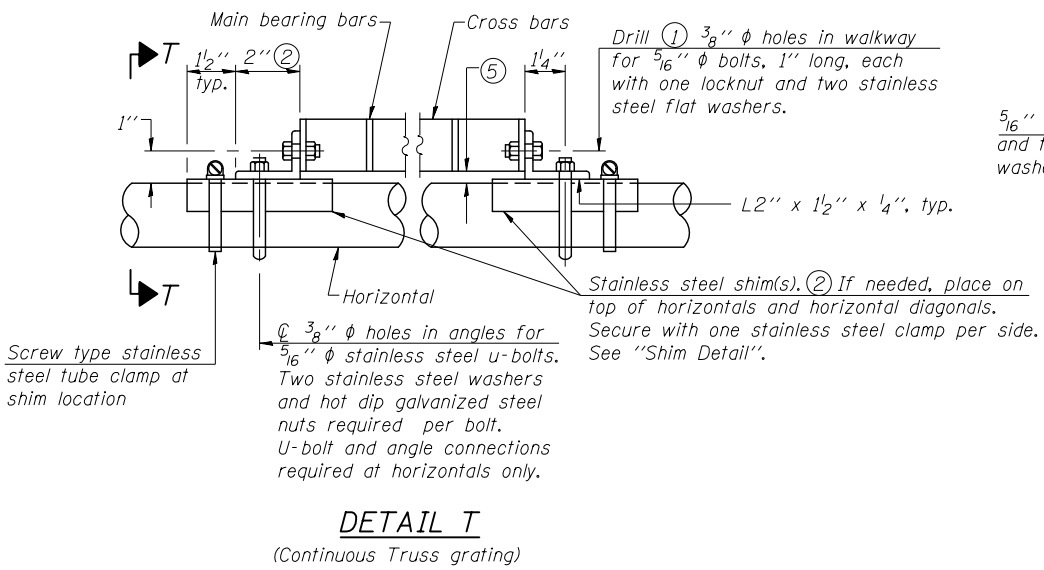
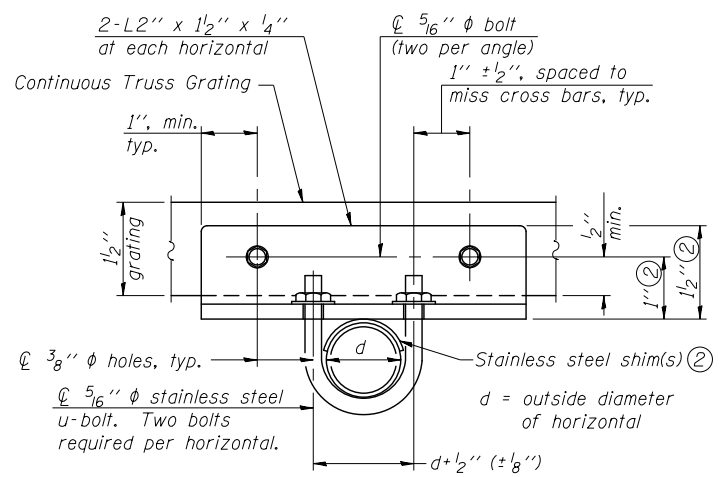
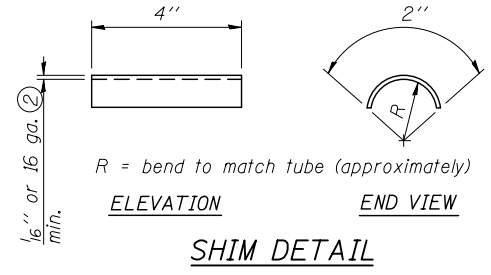
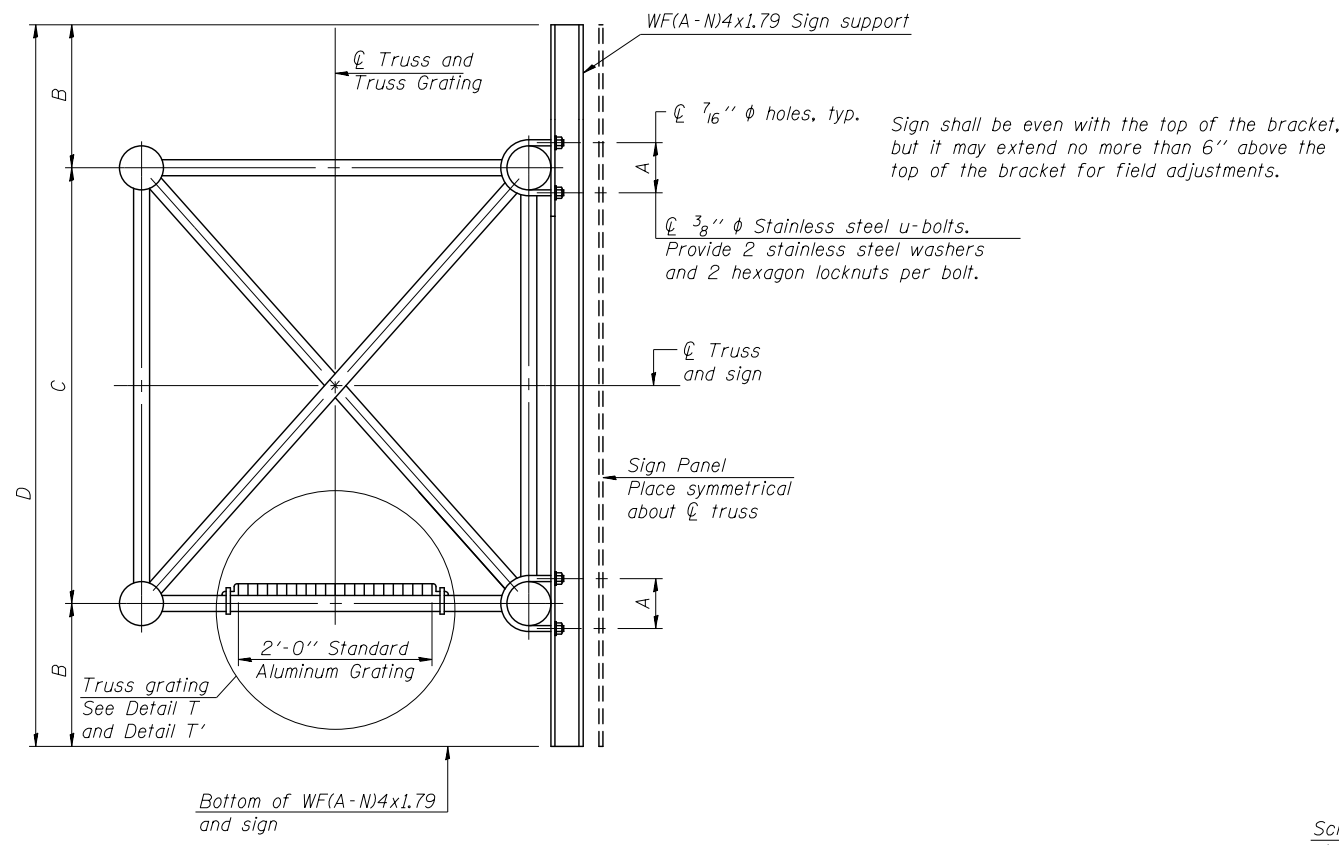
	USER NAME = mmaestra	DESIGNED TB	REVISED -
	PLOT SCALE = 1:2	DRAWN MJM	REVISED -
	PLOT DATE = 5/13/2017	CHECKED PJO	REVISED -
		DATE 05/12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

SCALE: AS SHOWN SHEET NO. 7 OF 10 SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	735
SPM-60			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



DETAIL T' (Truss grating splice)
 Details not shown same as Detail T.
 Alternate materials may be used subject to the Engineer's review and approval.

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ Not used.
- ④ Not used.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- ⑥ Based on actual height of tallest sign given on OS-A-1.

Structure Number	Station	A	⑥ B	C	⑥ D
ISO99I055L263.5	4995+50	7 3/8"	1.25'	7'	9.5'
ISO99I055R263.3	7997+00	7 3/8"	1.25'	7'	9.5'
ISO99LWEBL1	803+75	7 3/8"	2'	7'	11'
ISO99LWEBR2	803+35	7 3/8"	2'	7'	11'
ISO99LWEBL3	818+80	7 3/8"	2'	7'	11'

FILE NAME = D:\60X10-shr-61-details\05-Walk-2.dgn

KNIGHT
 Engineers & Architects

USER NAME = mmaestra	DESIGNED TB	REVISED -
DRAWN MJM	REVISOR MJM	REVISED -
PLOT SCALE = 1:2	CHECKED PJO	REVISED -
PLOT DATE = 6/15/2017	DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
 ALUMINUM WALKWAY DETAILS**

SCALE: AS SHOWN SHEET NO. 8 OF 10 SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	736
SPM-61		CONTRACT NO. 60X10		
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

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

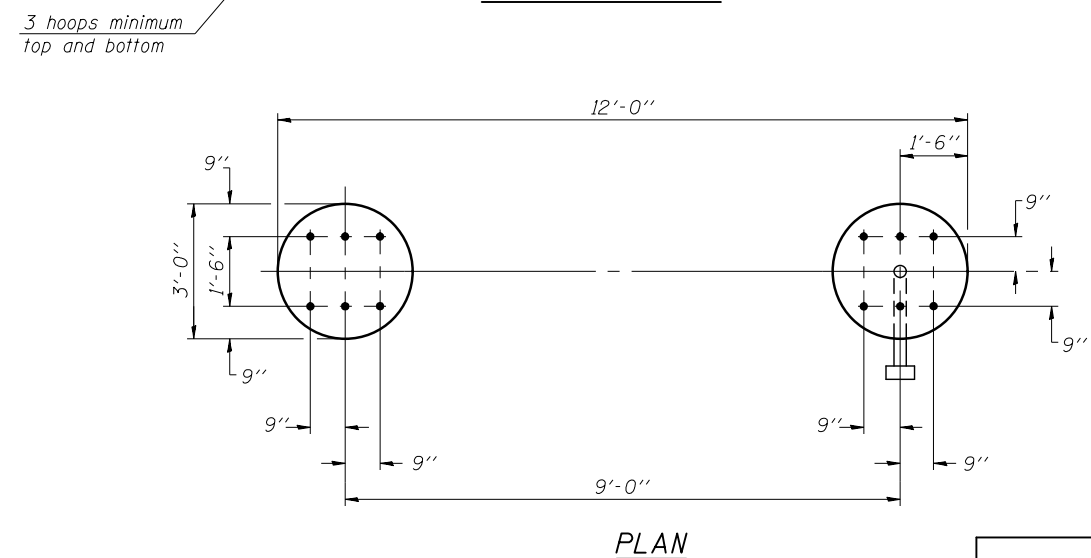
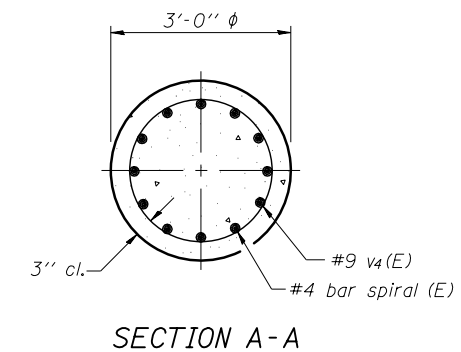
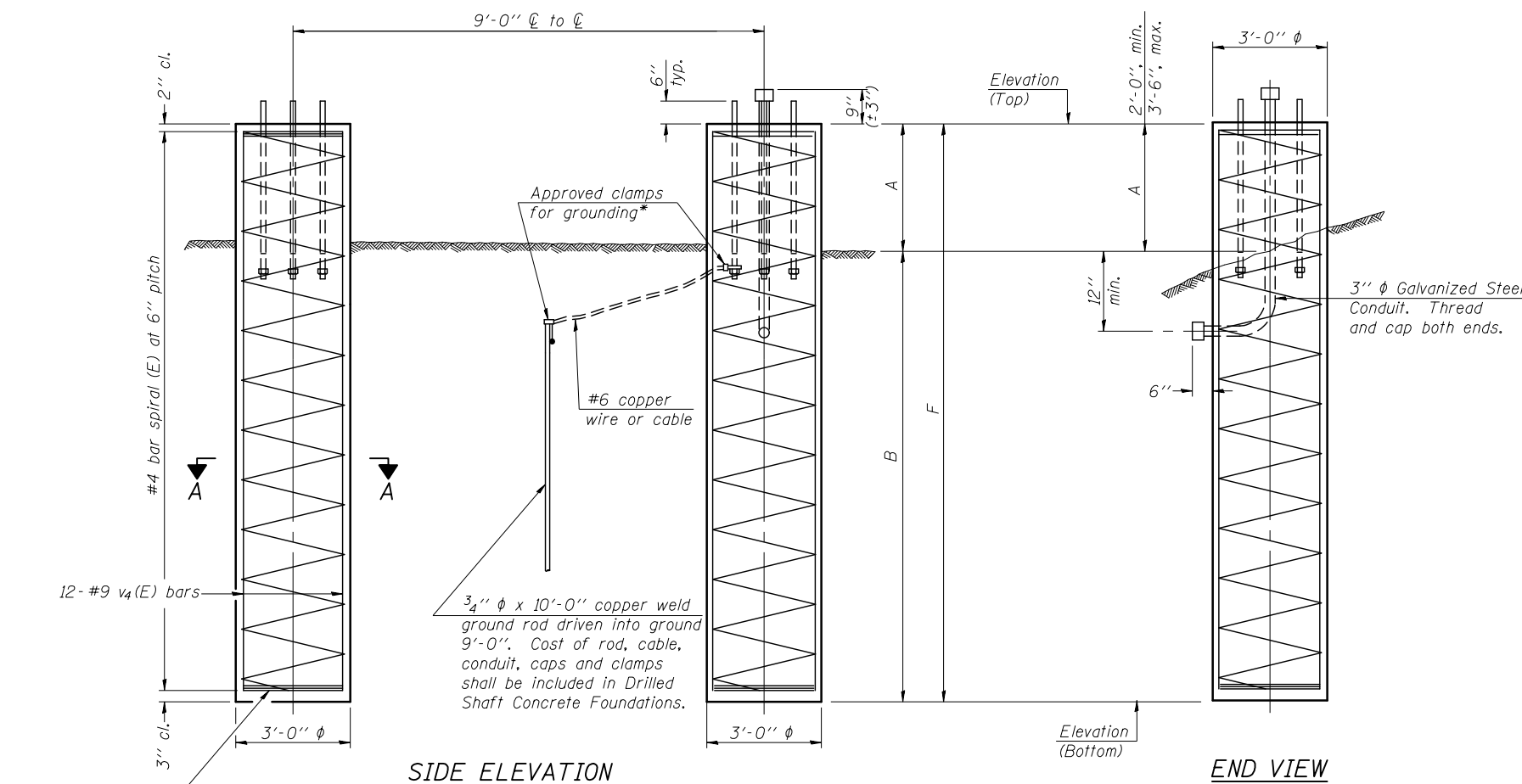
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District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

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

Concrete shall be placed monolithically, without construction joints.

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

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



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

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

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

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
1S0991055L263.5	4995+50	659.80	639.26	2.54'	18.0'	20.54'						10.8
1S0991055L263.5	4995+50						659.60	638.76	2.84'	18.0'	20.84'	10.9
1S0991055R263.3	7997+00	655.66	635.02	2.64'	18.0'	20.64'						10.8
1S0991055R263.3	7997+00						656.95	636.31	2.64'	18.0'	20.64'	10.8
1S099LWEBL1	803+75	SEE OS4-MED										
1S099LWEBL1	803+75						655.00	634.38	2.62'	18.0'	20.62'	10.8
1S099LWEBR2	804+35	SEE OS4-MED										
1S099LWEBR2	804+35						654.22	633.48	2.74'	18.0'	20.74'	10.9
1S099LWEBL3	818+80	666.30	645.80	2.50'	18.0'	20.50'						10.7
1S099LWEBL3	818+80						662.6	642.10	2.50'	18.0'	20.50'	10.7

OS4-F4

8-21-13

THE RODERICK GROUP
1327 W WASHINGTON BLVD
SUITE 10
CHICAGO, IL 60607
www.rodgrp.com

DESIGNED - BAB	REVISED
CHECKED - MJM	REVISED
DRAWN - CJD	REVISED
CHECKED - MAK	REVISED
SCALE - NONE	
DATE - 03/01/17	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS**

SHEET NO. 9 OF 10 SHEETS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	737
SPM-62		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

NOTES:

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

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

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

Concrete shall be placed monolithically, without construction joints.

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

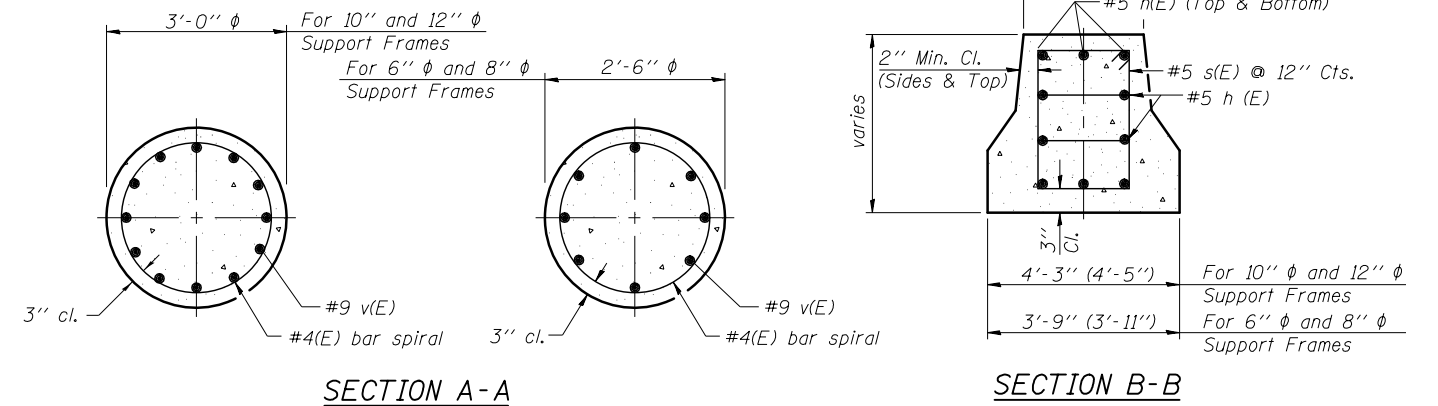
A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

BAR LIST - EACH FOUNDATION

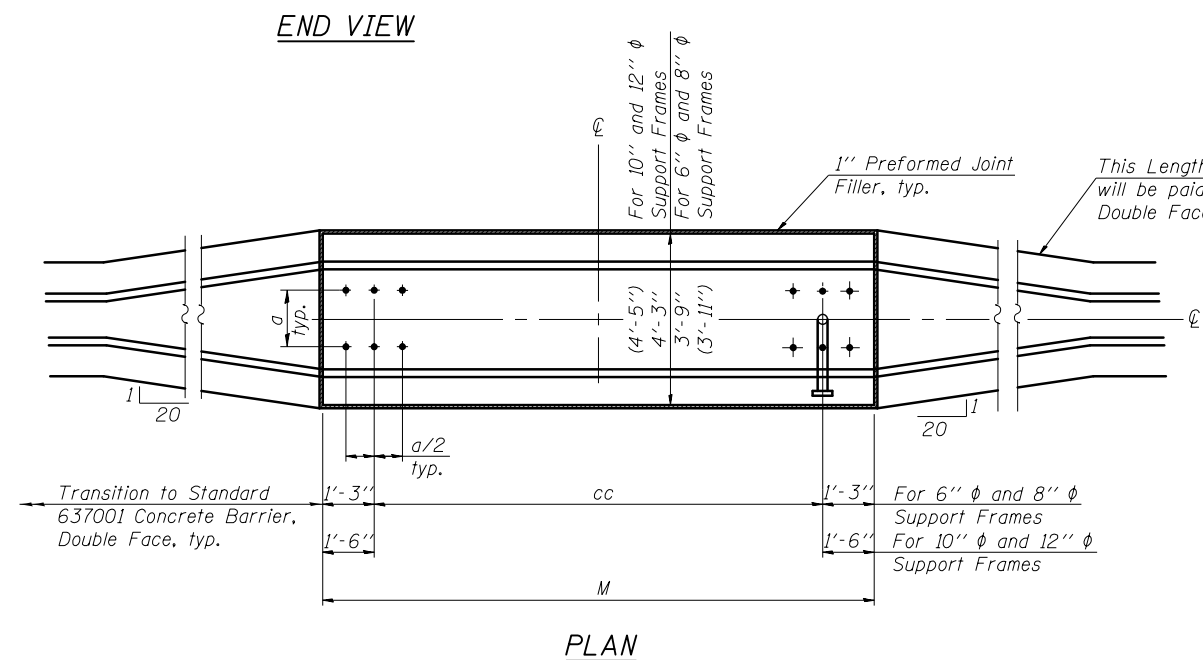
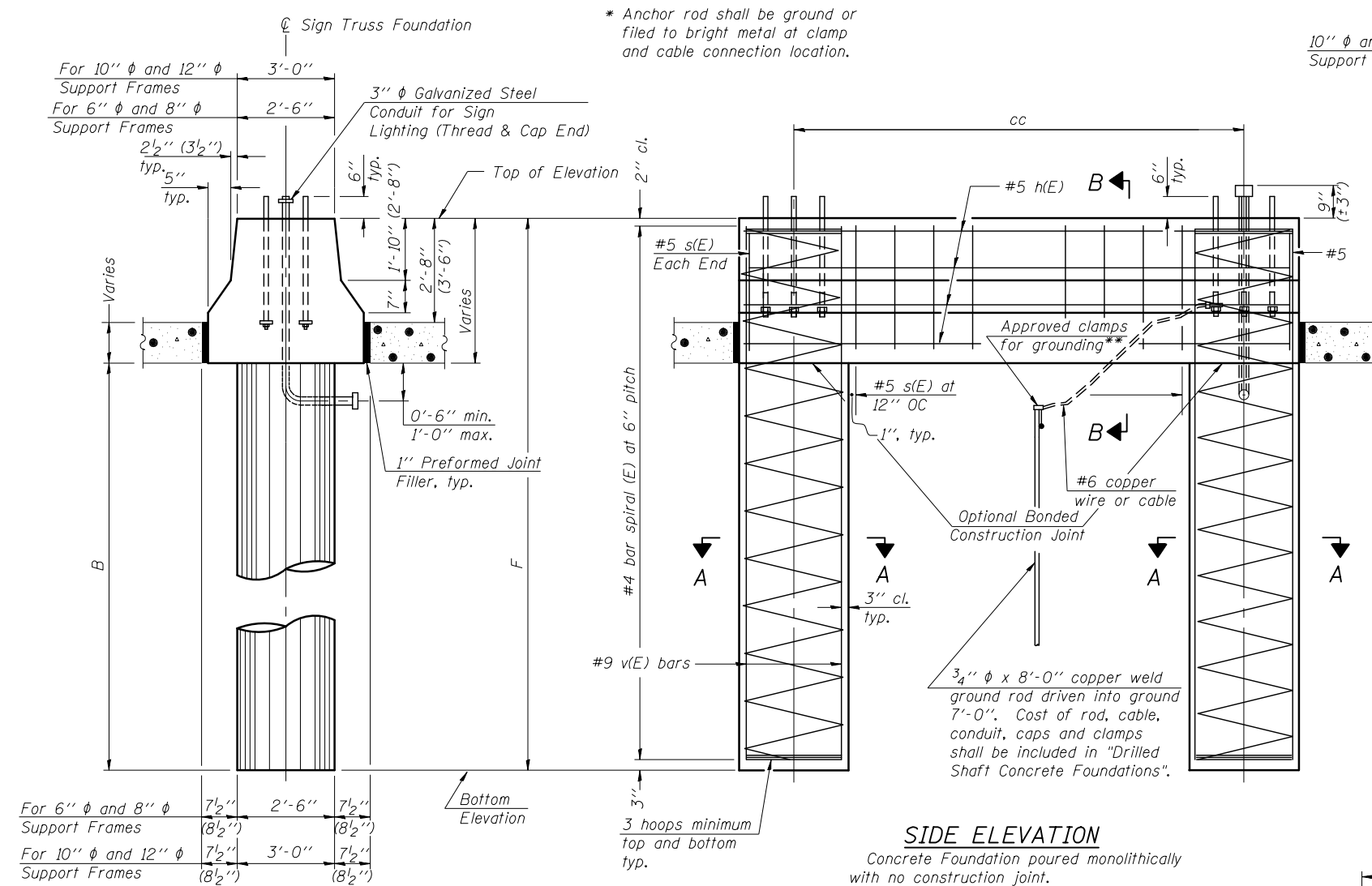
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—
#4(E) bar spiral - see Side Elevation				

Pipe Support Frames	cc	M	a	a/2
6"φ	7'-0"	9'-6"	0'-11"	5 1/2"
8"φ	7'-6"	10'-0"	1'-1 1/2"	6 3/4"
10"φ	8'-3"	11'-3"	1'-3"	7 1/2"
12"φ	9'-0"	12'-0"	1'-6"	9"

All dimensions in parenthesis are for 42" high barrier.



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



Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
IS099LWBL1	803+75	657.34	634.84	18	22.5					16.3
IS099LWBL1						SEE 054-F4				
IS099LWBR2	804+35	659.22	636.72	18	22.5					16.3
IS099LWBR2						SEE 054-F4				

OS4-MED 8-21-13

THE RODERICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 10
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DESIGNED - BAB	REVISION
CHECKED - MJM	REVISION
DRAWN - CJD	REVISION
CHECKED - MAK	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	738
SPM-63		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:

Field Units
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

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

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

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

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

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

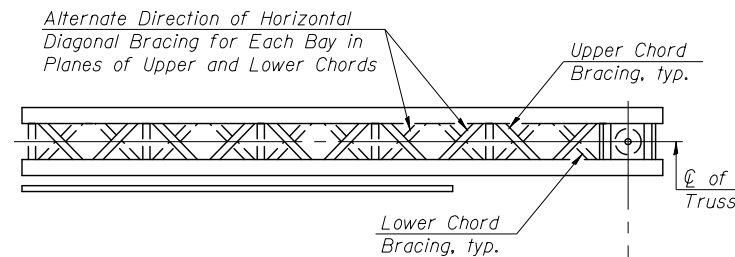
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

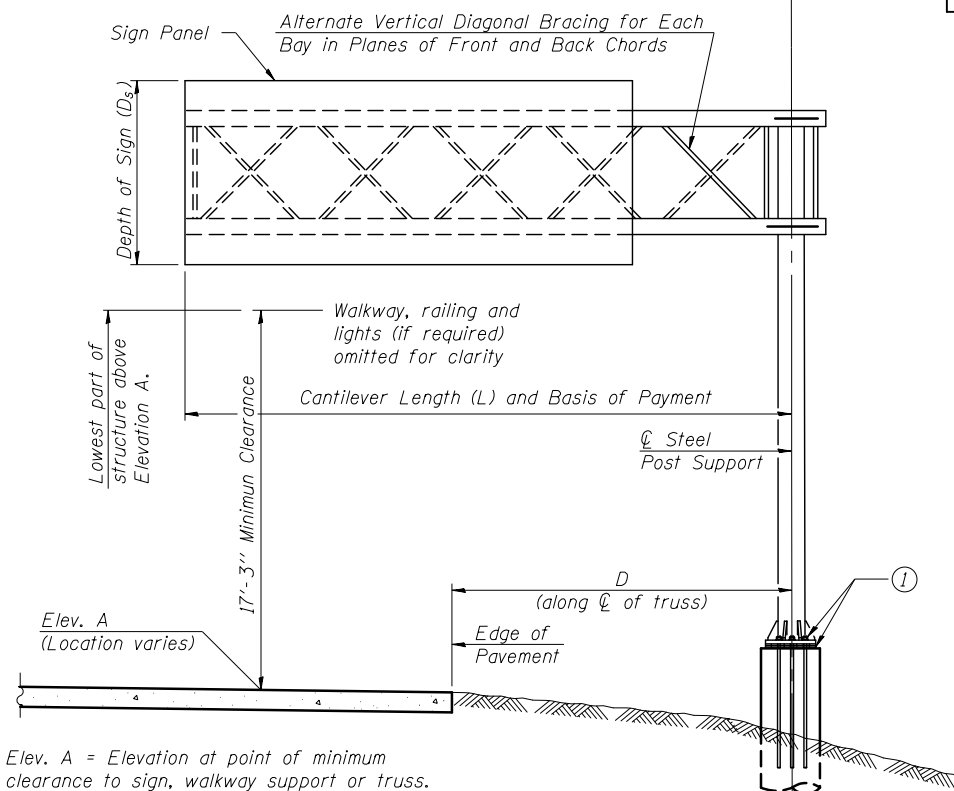
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D _s	Total Sign Area (sq ft)
IC099LWEBR1	809+96	III-C-A	35'	671.37	19.92'	11.5'	149.5
IC099I055L263.7	4985+00	III-C-A	40'	666.47	17.6'	9.0'	153.0
IC099I055R263.1	7984+05	III-C-A	40'	659.30	33.0'	8.5'	114.8
IC099LWEBR2	810+52	II-C-A	25'	672.17	10.1'	10.0'	105.0
IC099LWEBL3	812+98	II-C-A	25'	673.59	9.9'	10.0'	135.0

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



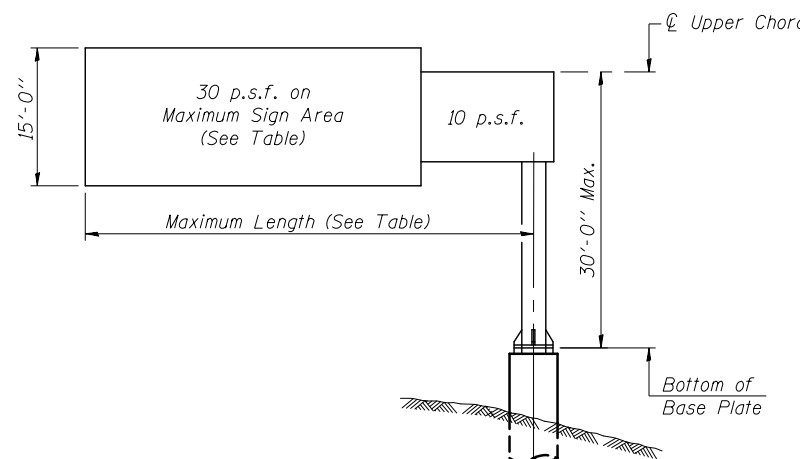
TYPICAL PLAN
(Walkway not shown)



TYPICAL ELEVATION
Looking in Direction of Traffic

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

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



DESIGN WIND LOADING DIAGRAM

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

Note:

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

① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	50
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	115
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	52.9

OSC-A-1

8-21-13

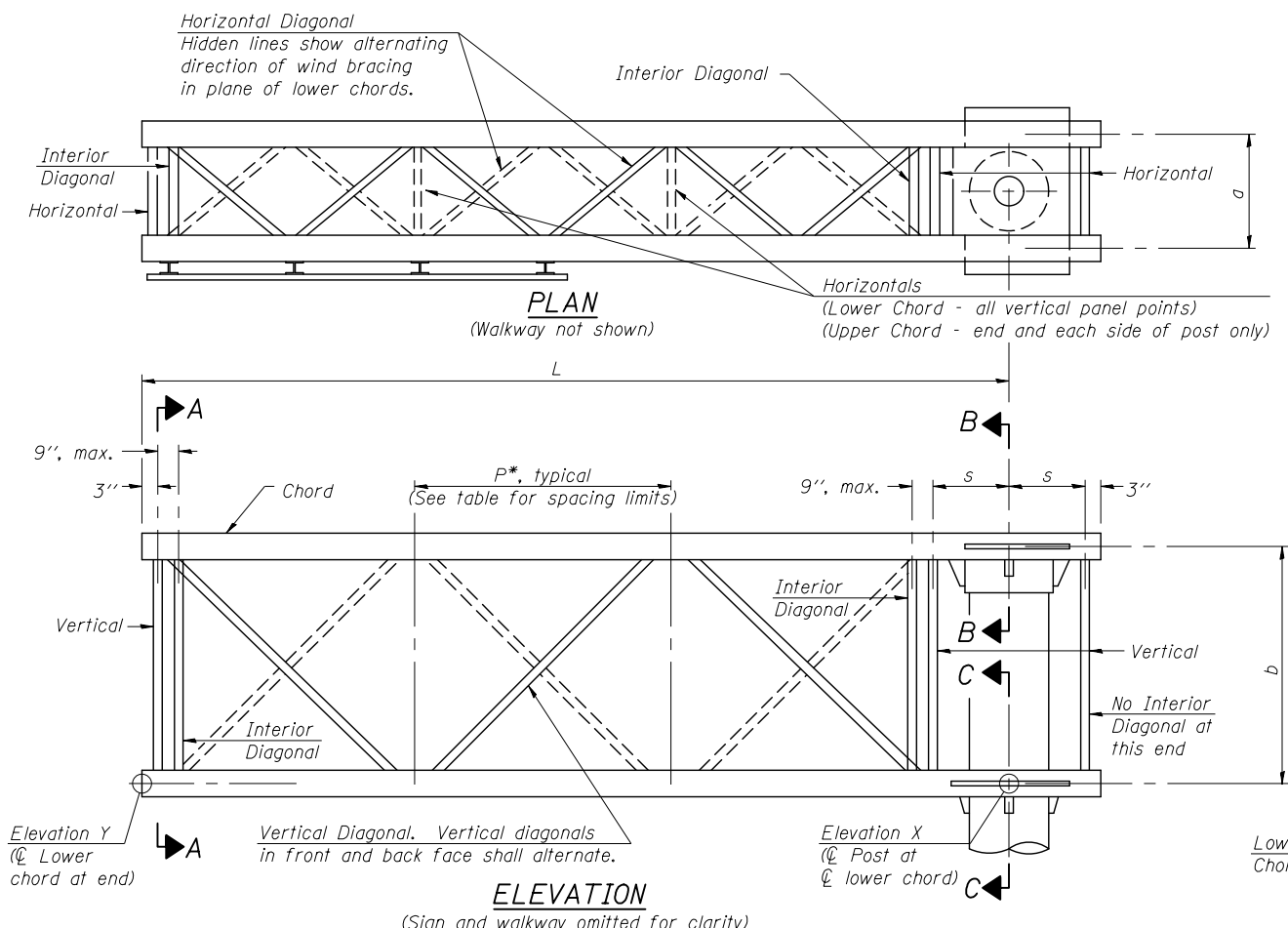
<p>1327 W WASHINGTON BLVD SUITE 10 CHICAGO, IL 60607 www.rodgrp.com</p>	DESIGNED - BAB	REVISED
	CHECKED - MJM	REVISED
	SCALE - NONE	REVISED
	DATE - 06/16/17	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SHEET NO. 1 OF 8 SHEETS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	739
SPM-64		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



TYPICAL TRUSS UNIT
(Sign and walkway omitted for clarity)

Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.

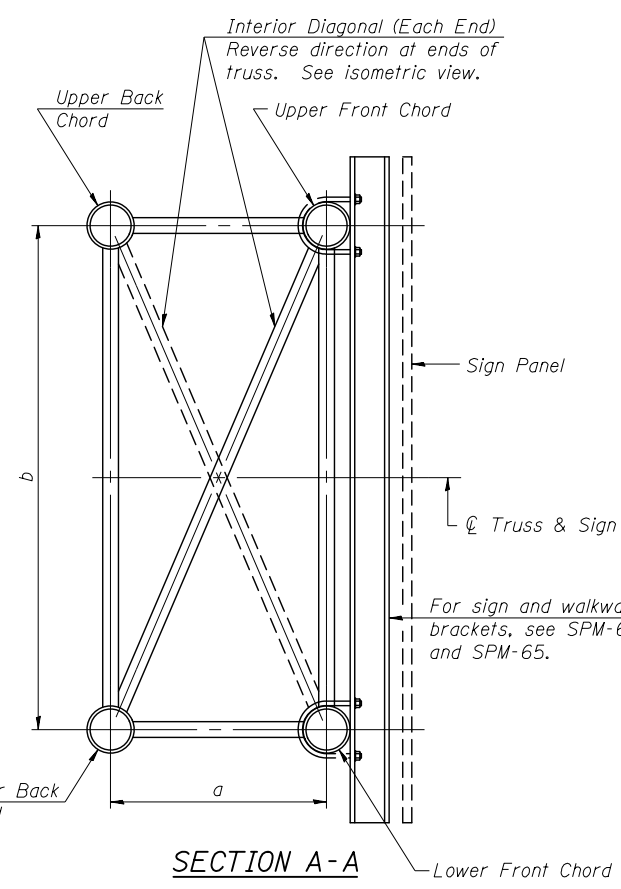
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

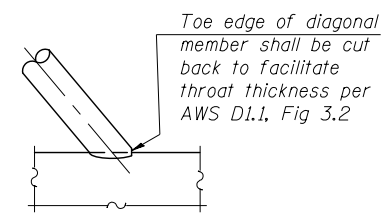
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*P = \frac{L - s - 3''}{\# \text{ Panels}}$$

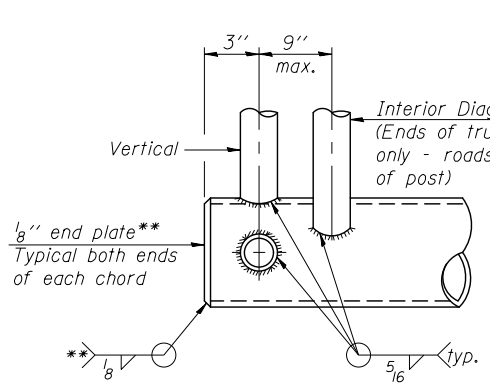
Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
IC099LWEBR1	809+96	III-C-A	35'	6	66"
IC099I055L263.7	4985+00	III-C-A	40'	8	57"
IC099I055R263.1	7984+05	III-C-A	40'	8	57"
IC099LWEBR2	810+52	II-C-A	25'	6	46"
IC099LWEBL3	812+98	II-C-A	25'	6	46"



SECTION A-A

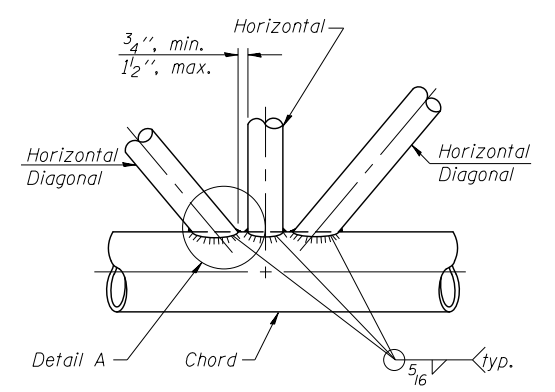


DETAIL A

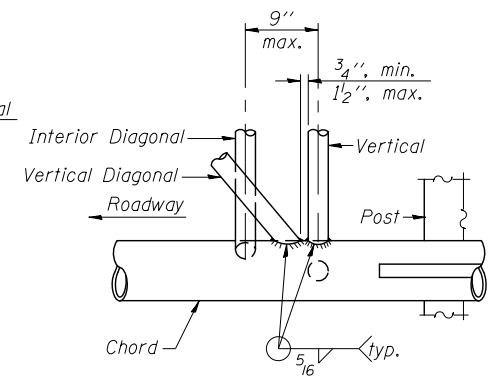


CANTILEVER END JOINT DETAIL

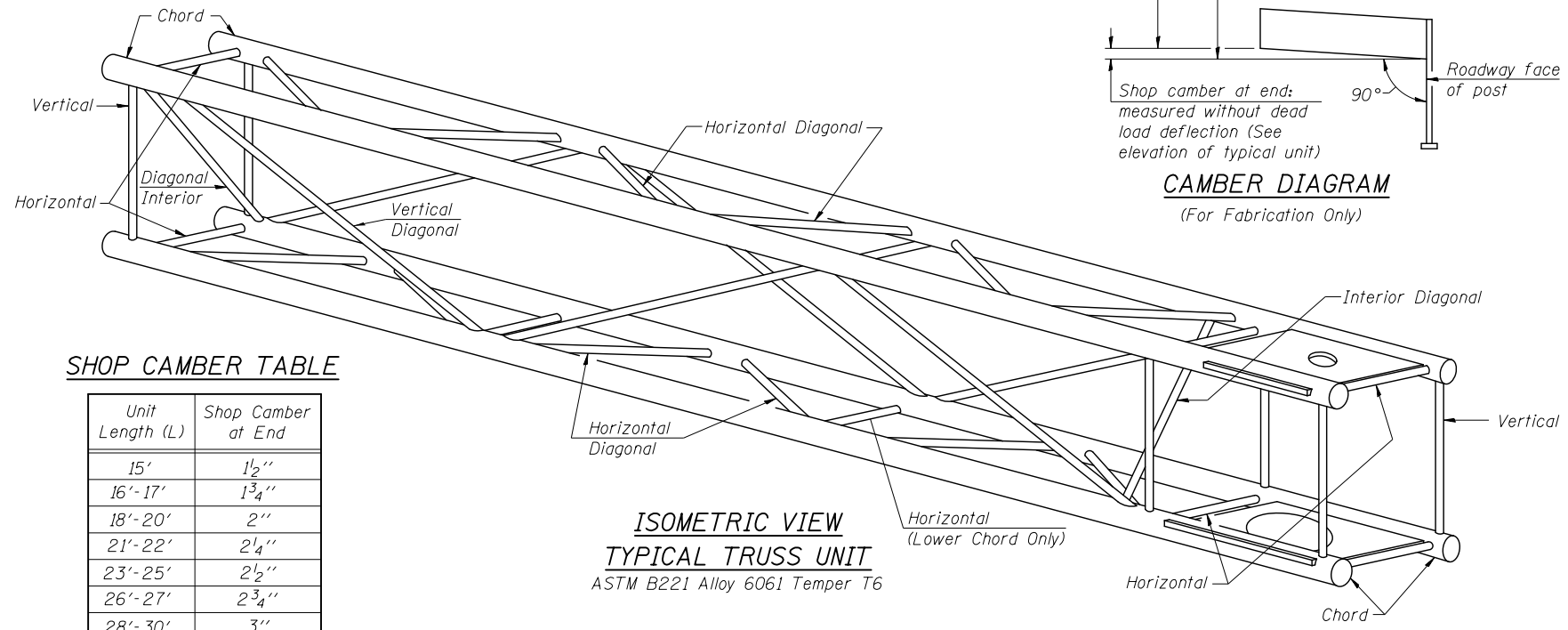
** Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2" ϕ Drain hole in end plate / drive-fit cap.



TRUSS INTERIOR JOINT DETAIL



POST END JOINT DETAIL

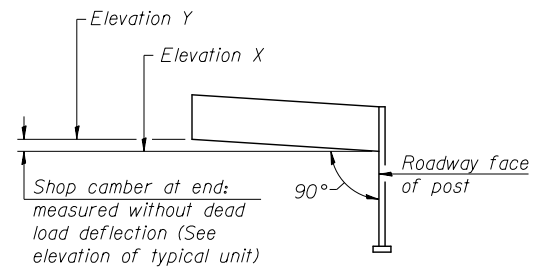


ISOMETRIC VIEW TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



CAMBER DIAGRAM
(For Fabrication Only)

OSC-A-2

6-1-12



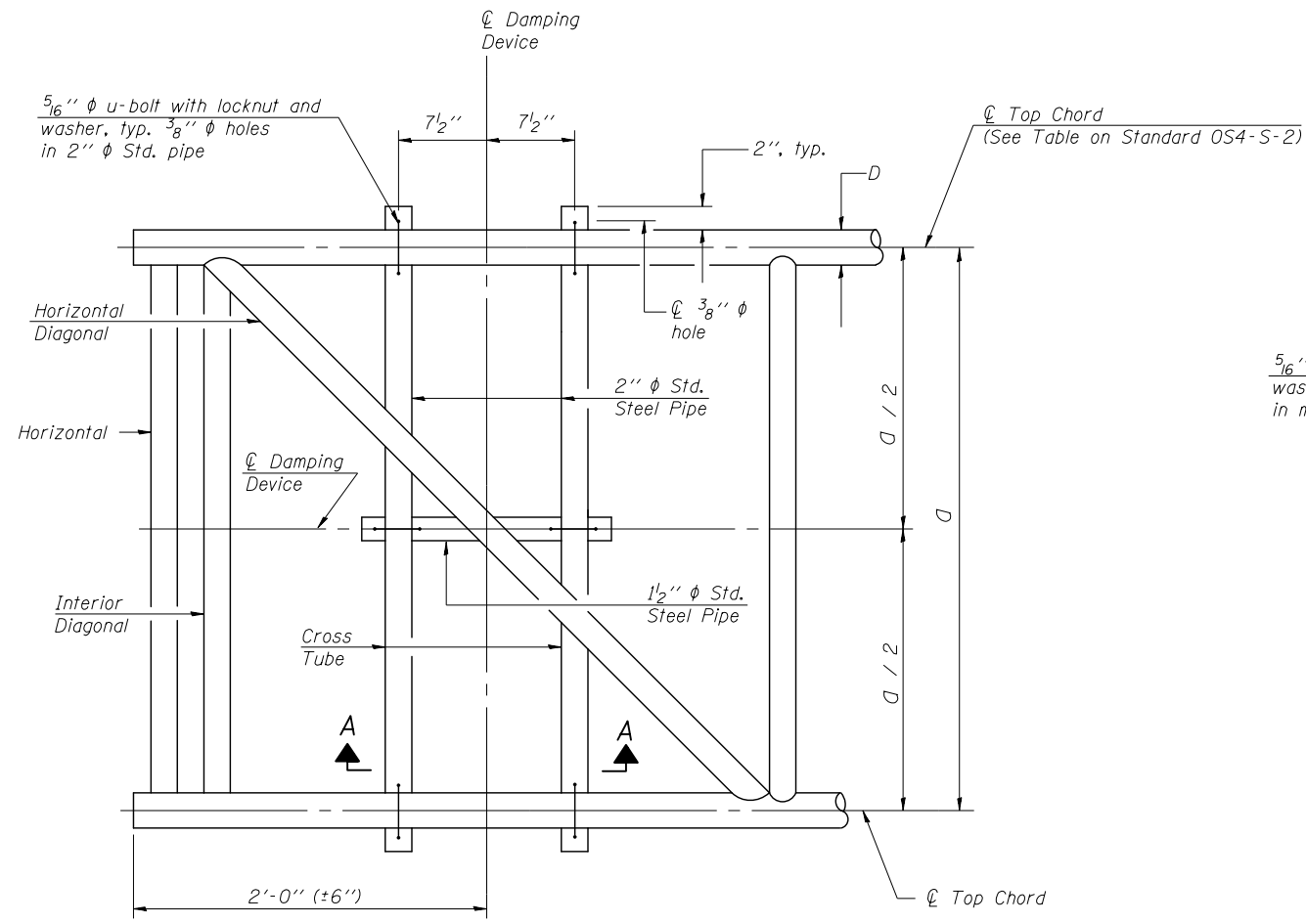
DESIGNED - BAB	REVISION
CHECKED - MJM	REVISION
DRAWN - CJD	REVISION
CHECKED - MAK	REVISION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

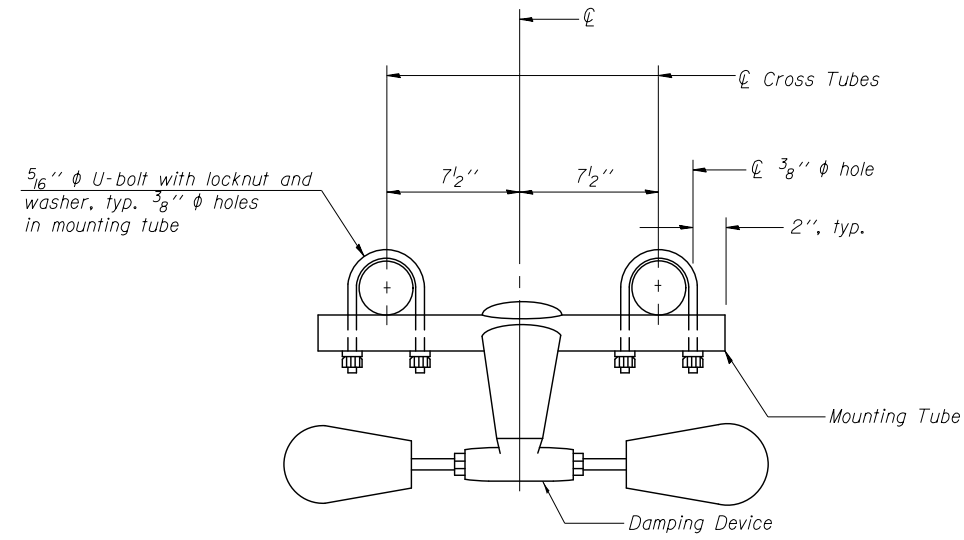
CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET NO. 2 OF 8 SHEETS

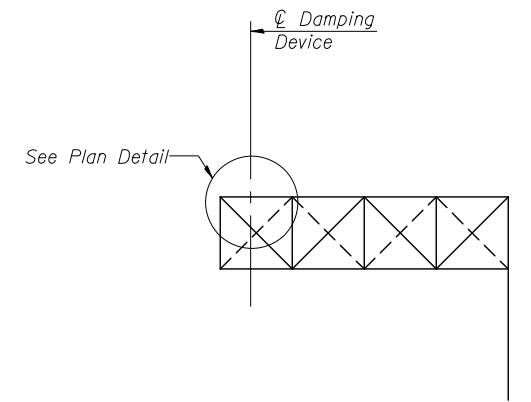
F.A.I./P RTE.	SECTION (99-1HB-1) R-1	COUNTY WILL	TOTAL SHEETS 1508	SHEET NO. 740
* SPM-65		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



PLAN DETAIL

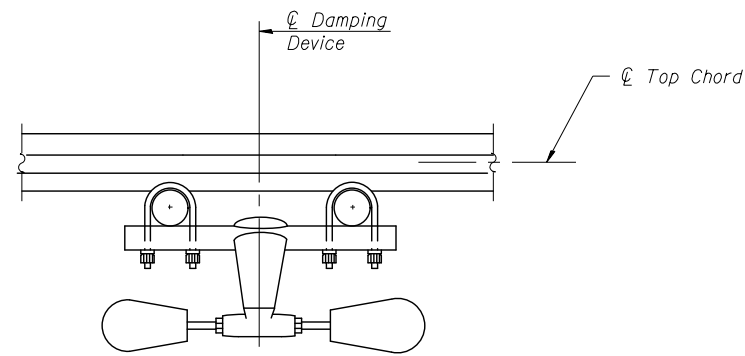


TRUSS DAMPING
DEVICE CONNECTION DETAIL

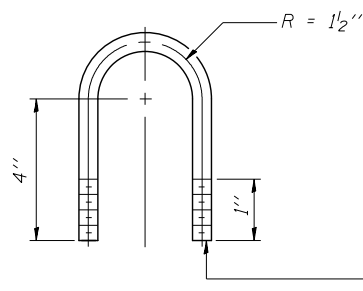


ELEVATION
Steel Cantilever
Sign Structure

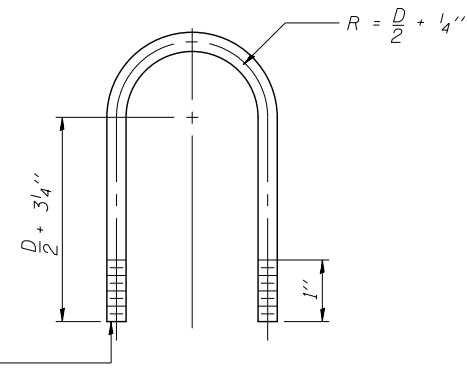
GENERAL NOTES
 Damper: One damper per truss. (31 Lbs. Stockbridge-Type - 29" minimum between ends of weights)



SECTION A-A



DAMPING DEVICE MOUNTING
TUBE U-BOLT DETAIL
(Typical)



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

OSC-A-D

6-1-12

THE RODERICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 10
 CHICAGO, IL 60607
 www.rodgrp.com

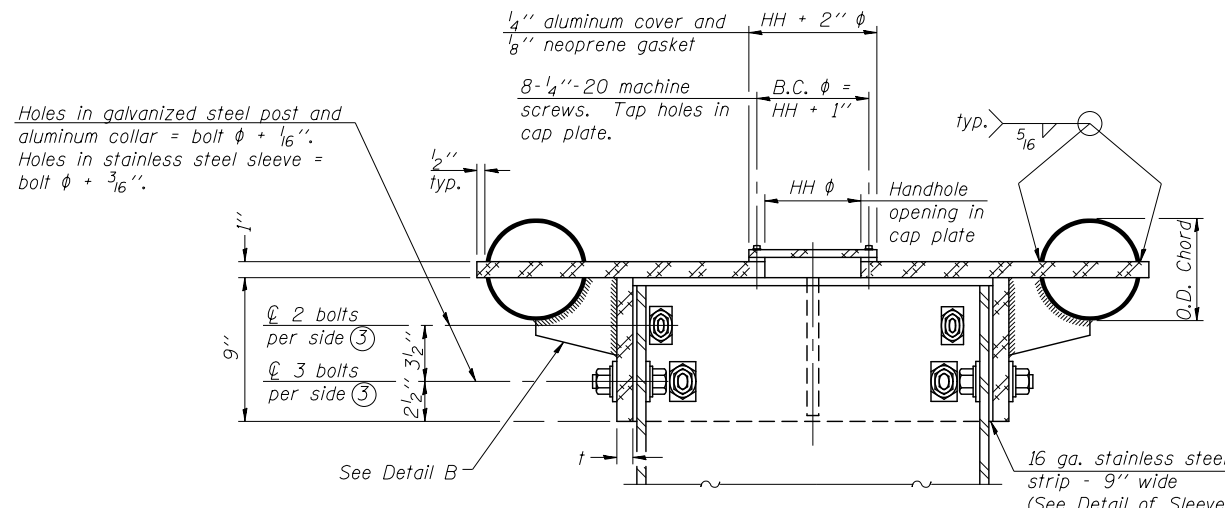
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CHECKED -	MJM	REVISED	
DRAWN -	CJD	REVISED	
CHECKED -	MAK	REVISED	
SCALE -	NONE		
DATE -	03/01/17		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
DAMPING DEVICE

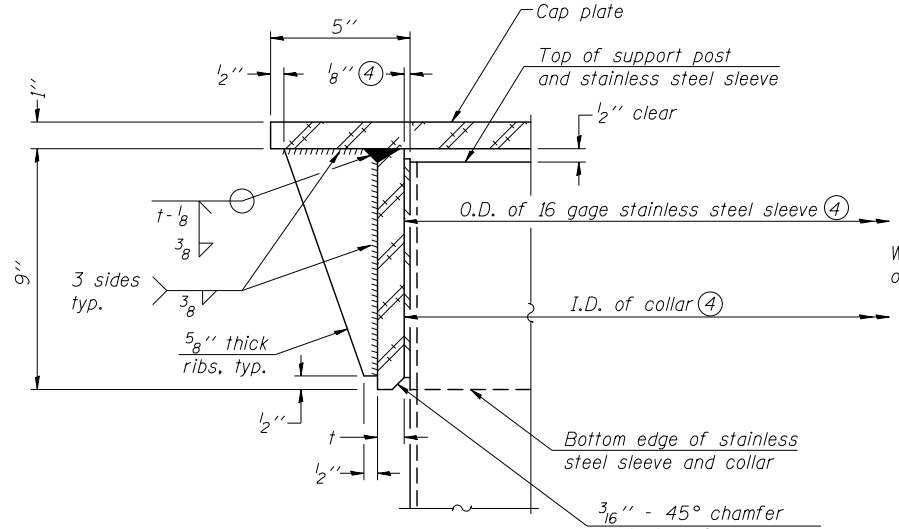
SHEET NO. 3 OF 8 SHEETS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	741
SPM-66			CONTRACT NO. 60X10	
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

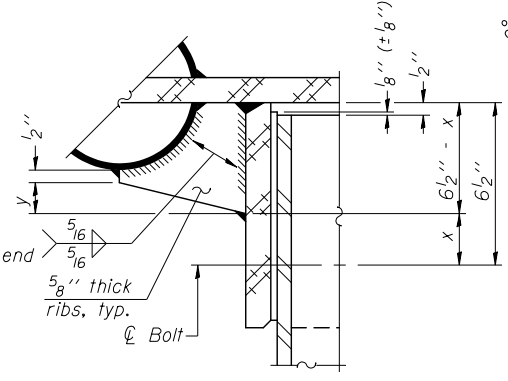


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (+/- 1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

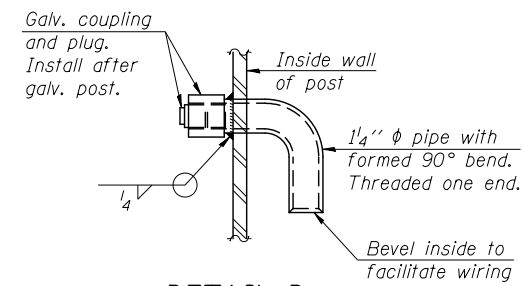
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



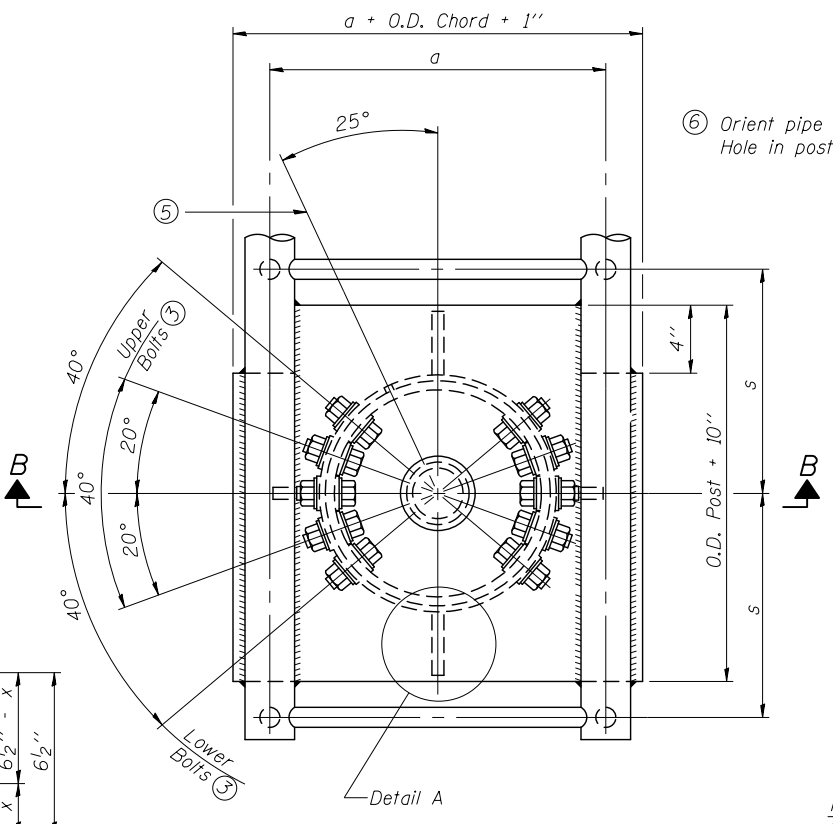
DETAIL A
(Two locations)
3/16" - 45° chamfer on inside of collar to facilitate field assembly



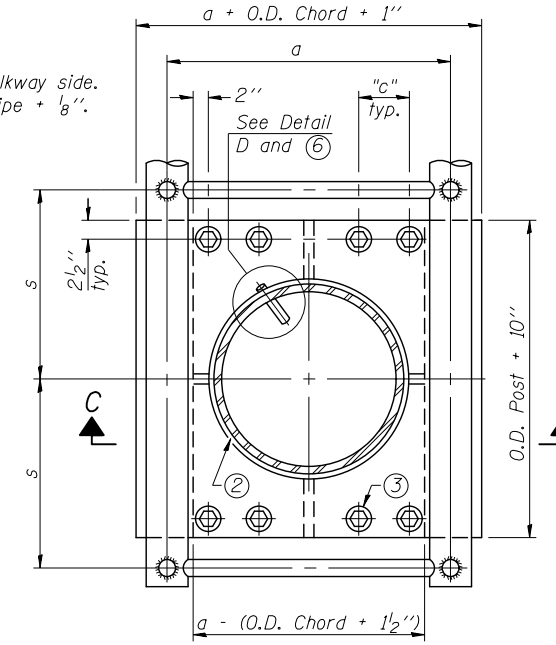
DETAIL B
Two locations
(For details not shown, see Detail C)



DETAIL D

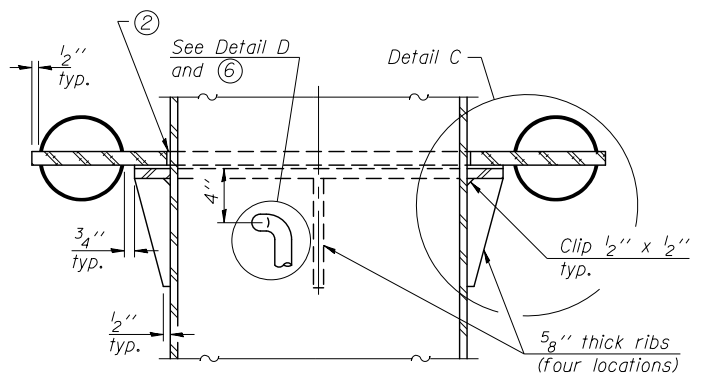


PLAN VIEW - TOP OF COLUMN
⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

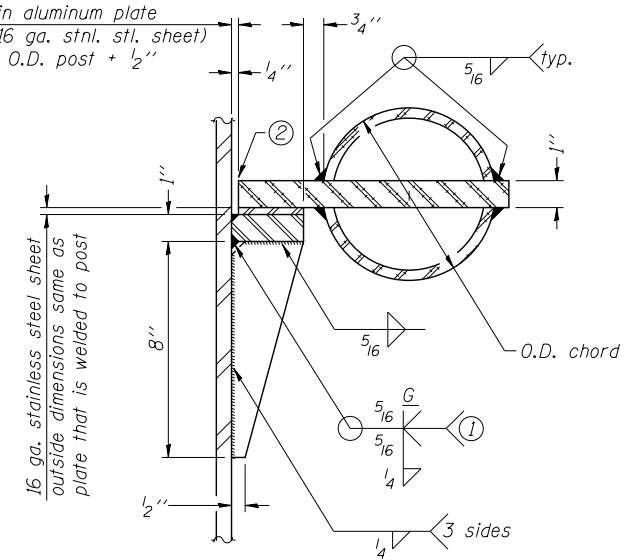


SECTION THRU POST ABOVE LOWER CHORDS

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"



SECTION C-C



DETAIL C

CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" phi (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" phi (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" phi (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" phi (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3

6-1-12



DESIGNED - BAB	REVISED
CHECKED - MJM	REVISED
DRAWN - CJD	REVISED
CHECKED - MAK	REVISED

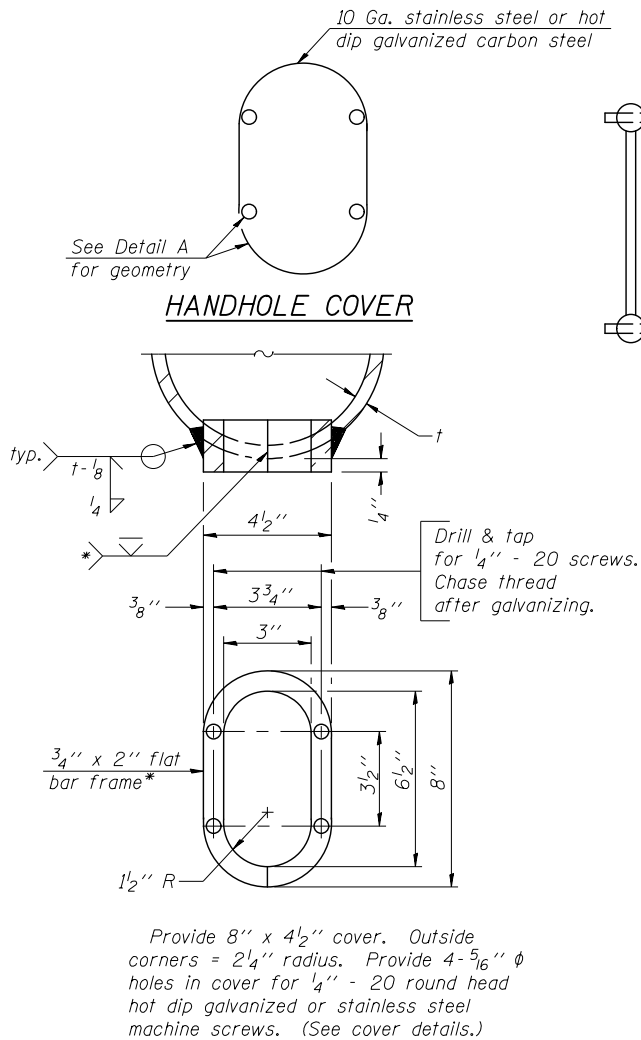
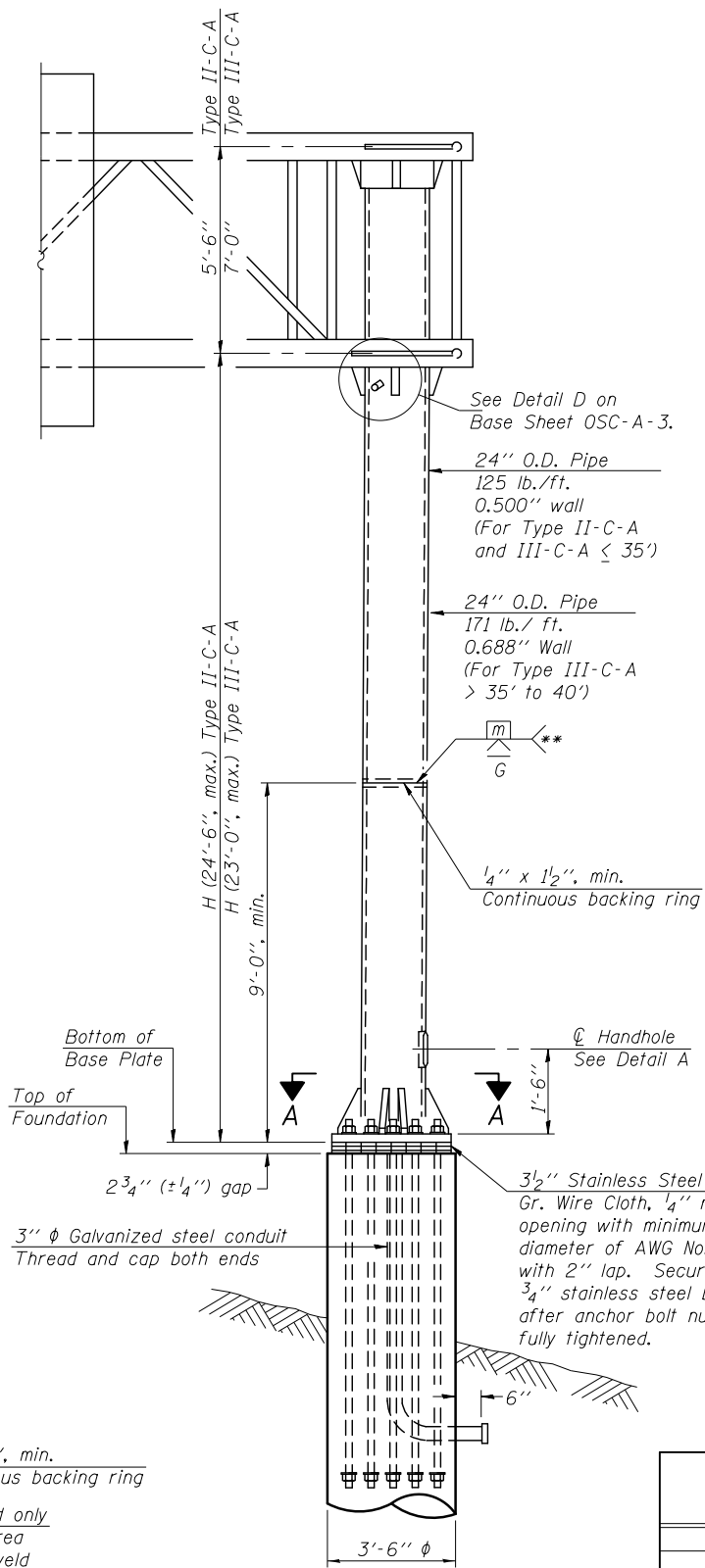
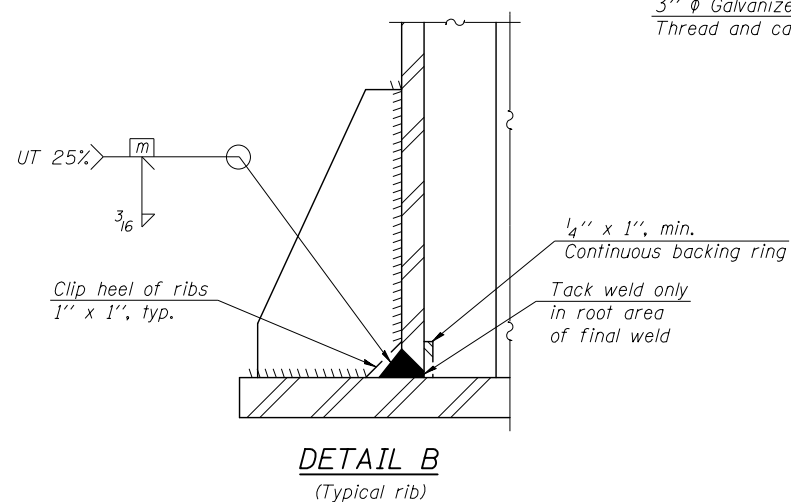
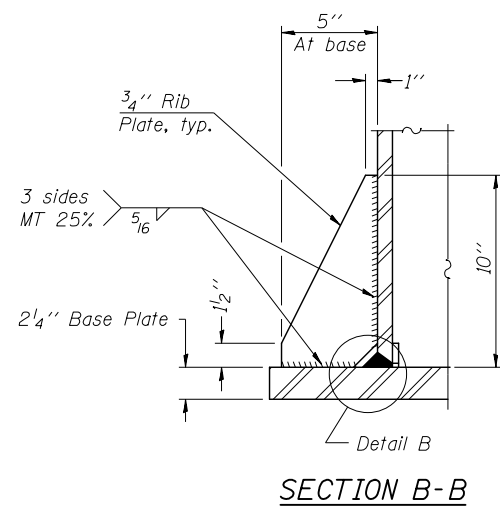
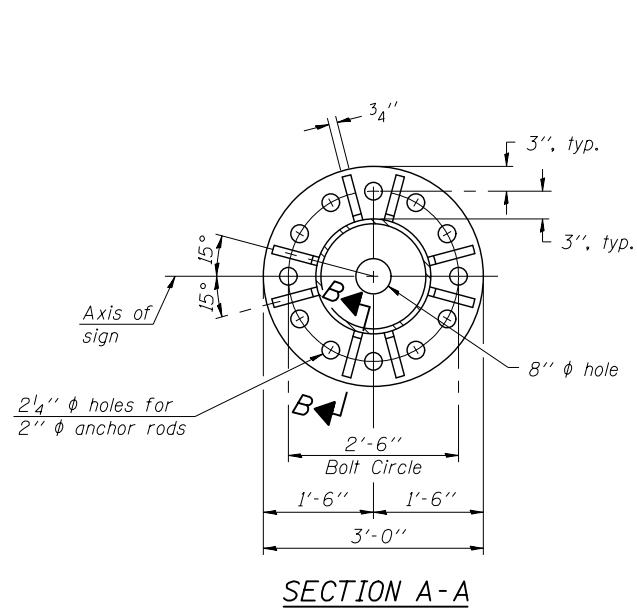
SCALE - NONE	DATE - 03/01/17
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SHEET NO. 4 OF 8 SHEETS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	742
SPM-67		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



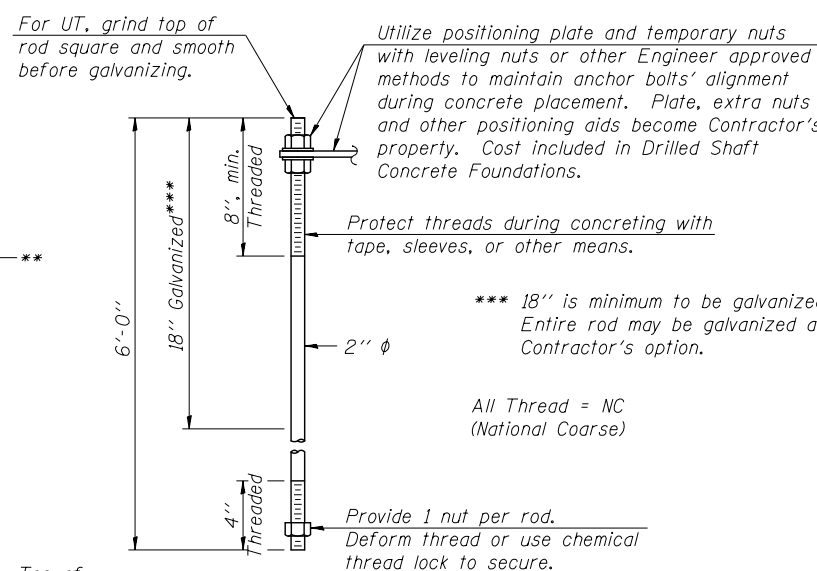
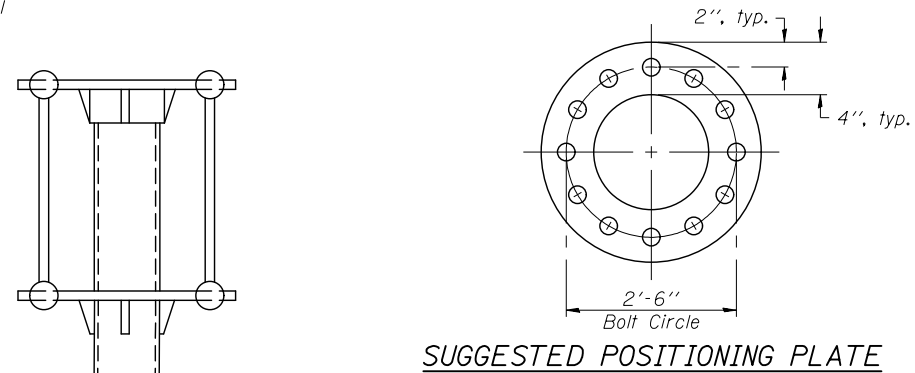
DETAIL A

* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.

** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
IC099LWEBR1	809+96	18.30
IC099I055L263.7	4985+00	20.03
IC099I055R263.1	7984+05	19.90
IC099LWEBR2	810+52	22.04
IC099LWEBL3	812+98	20.56

Note: "H" based on 15'-0" or actual sign height, whichever is greater.



Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III Inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

OSC-A-5

6-1-12



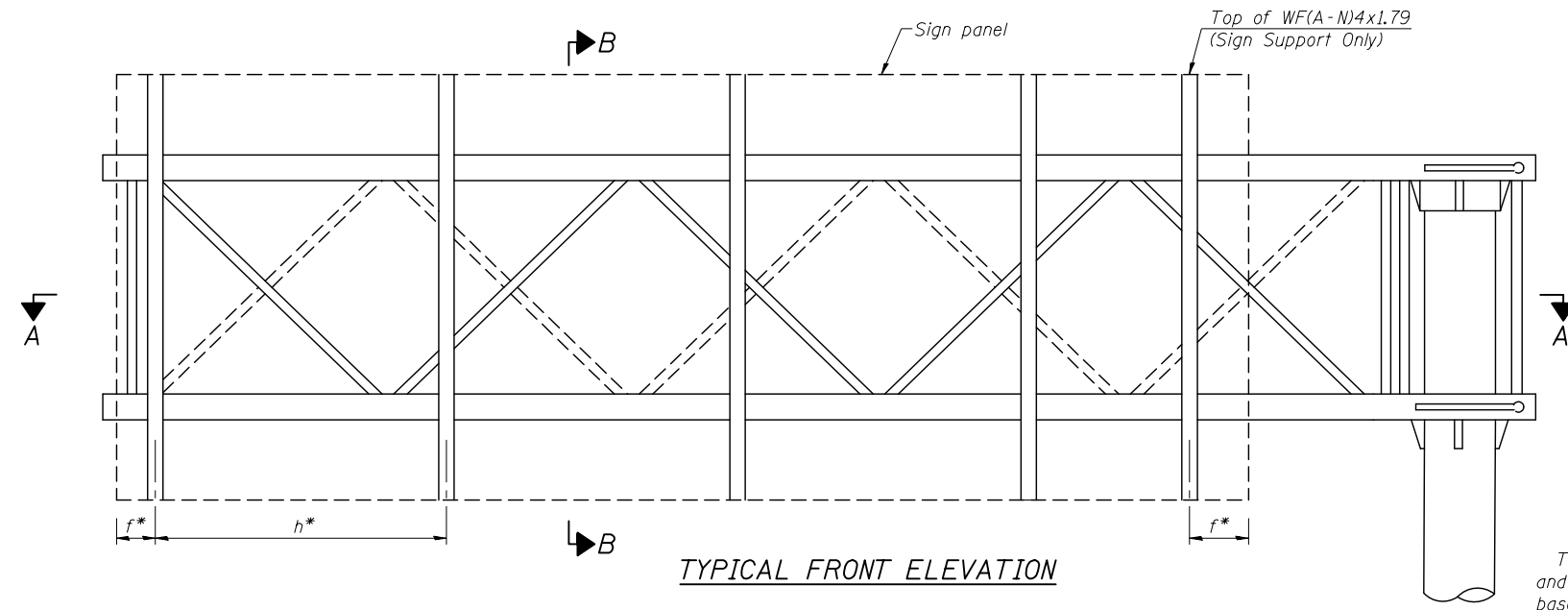
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CHECKED - MJM	REVISED
SCALE - NONE	REVISED
DATE - 03/01/17	REVISED
DRAWN - CJD	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

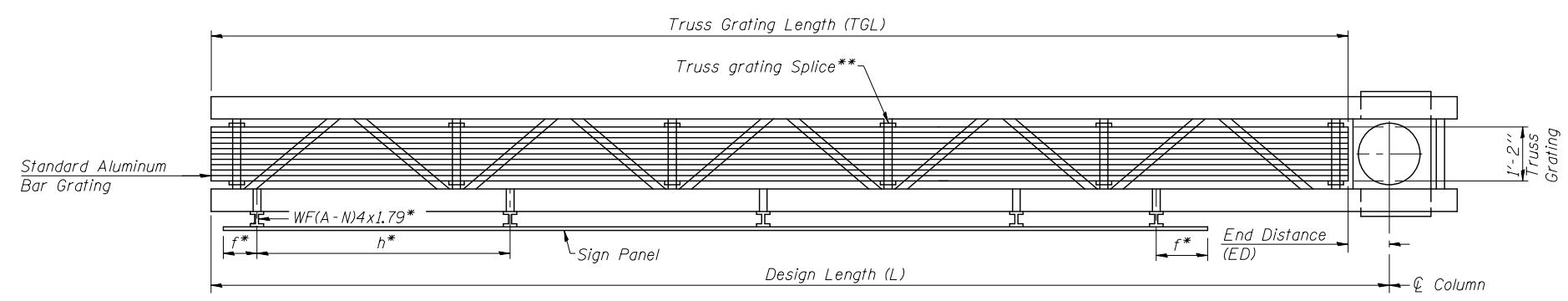
CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

SHEET NO. 5 OF 8 SHEETS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	743
SPM-68		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



Truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



SECTION A-A

Structure Number	Station	ED	TGL
IC099LWE BR1	809+96	1.5'	33.5'
IC099I055L263.7	4985+00	1.5'	38.5'
IC099I055R263.1	7984+05	1.5'	38.5'
IC099LWE BR2	810+52	1.5'	23.5'
IC099LWE BL3	812+98	1.5'	23.5'

Truss grating to facilitate inspection shall run full length of cantilevers.

Cost of truss grating is included in Overhead Sign Structure Cantilever.

** Use and location of grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6'' \right)$$

Notes:
 * Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
 h = 6'-0" maximum (center to center sign support brackets, WF(A-N)4x1.79)

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Cantilever Sign Structures - Walkway Details Aluminum Truss & Steel Post next sheet.

BRACKET TABLE

WF(A-N)4x1.79 ASTM B308, Alloy 6061-T6		
Sign Width	Number Brackets Required	
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

FILE NAME = D:\60X10-eh-69-details-OSC-Walk-1.dgn



USER NAME = mmaestra	DESIGNED TB	REVISED -
	DRAWN MJM	REVISED -
PLOT SCALE = 1:2	CHECKED PJO	REVISED -
PLOT DATE = 5/13/2017	DATE 05/12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES – ALUMINUM WALKWAY
DETAILS – ALUMINUM TRUSS & STEEL POST**
 SCALE: AS SHOWN SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	744
SPM-69			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

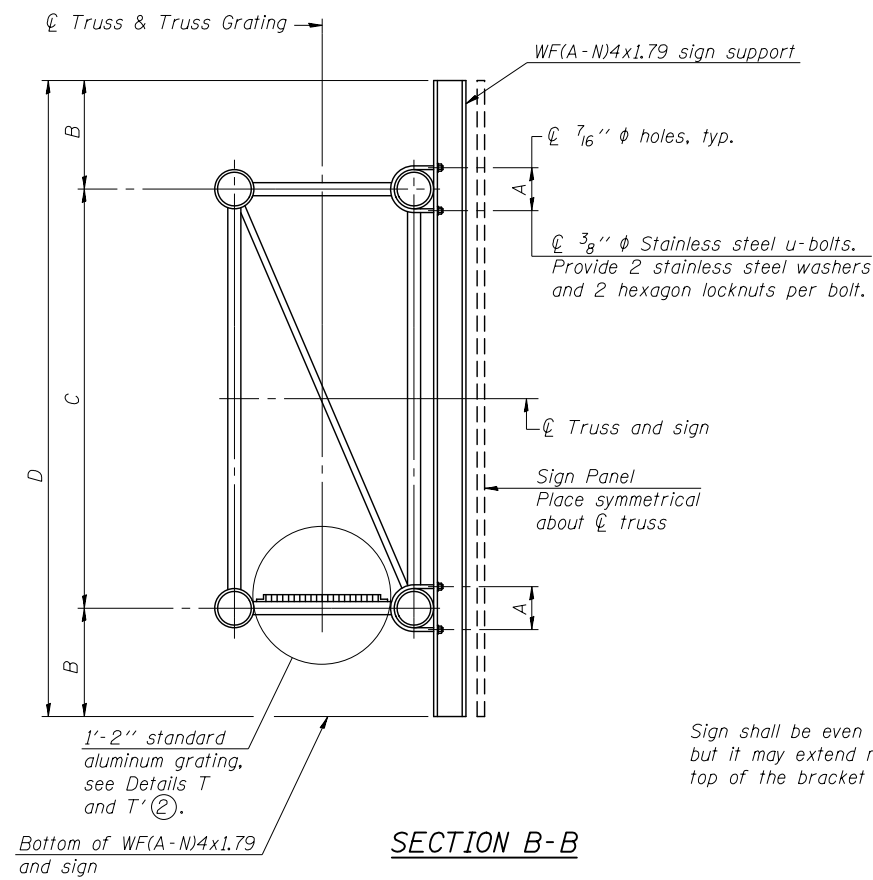
Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

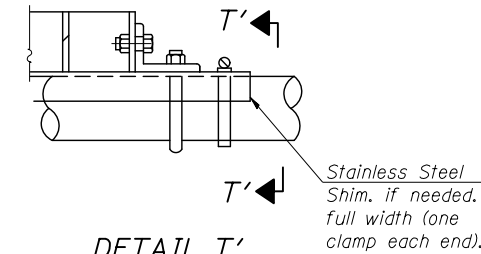
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



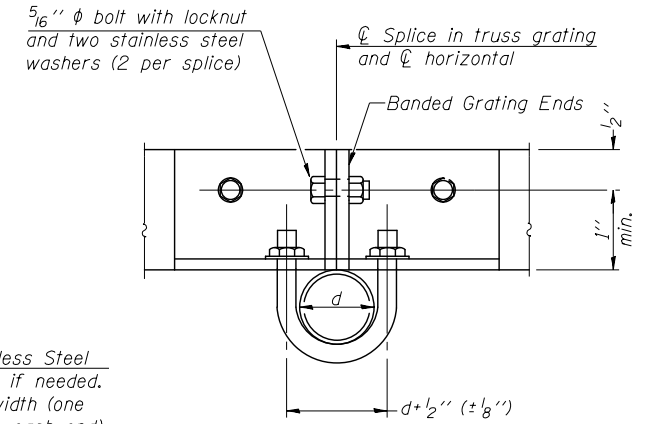
SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

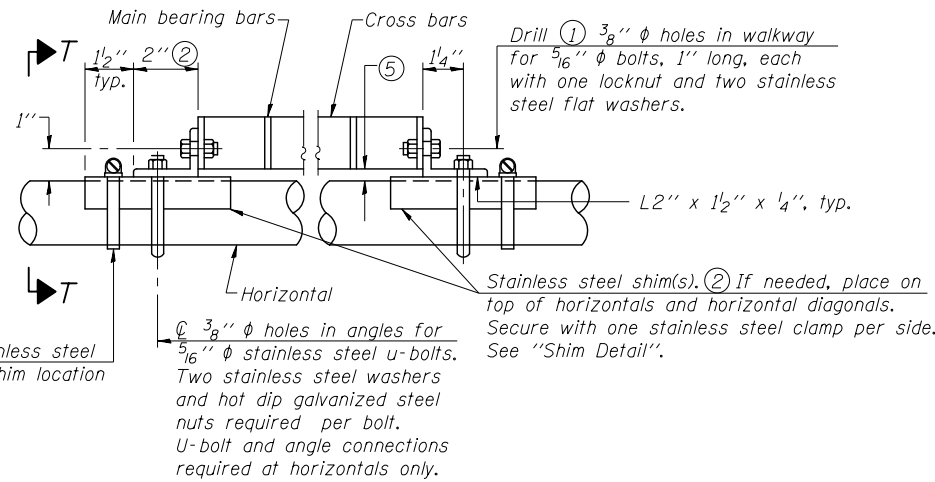


DETAIL T'

(Truss grating splice)
 Details not shown same as Detail T.
 Alternate materials may be used subject to the Engineer's review and approval.

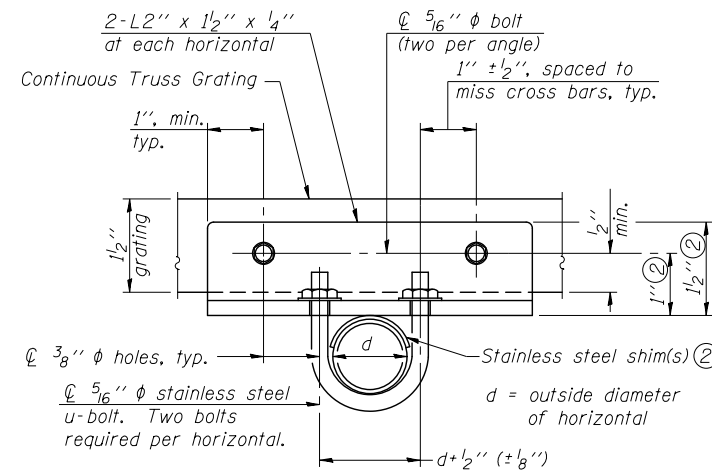


SECTION T'-T'

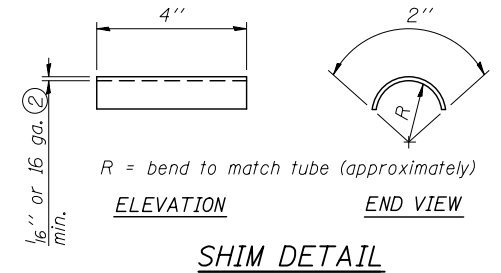


DETAIL T

(Continuous Truss grating)



SECTION T-T



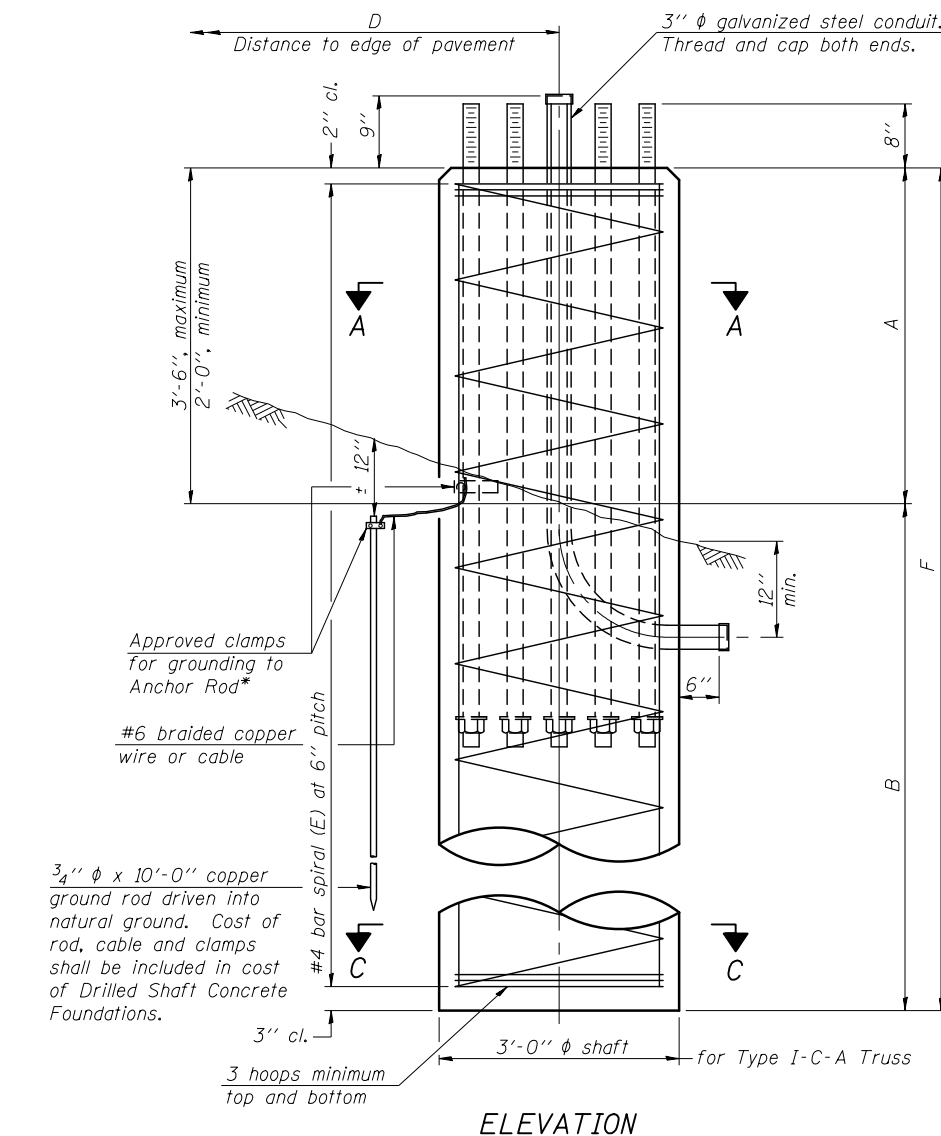
SHIM DETAIL

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ Not used.
- ④ Not used.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- ⑥ Based on actual sign height, D_s, given on OSC-A-1.

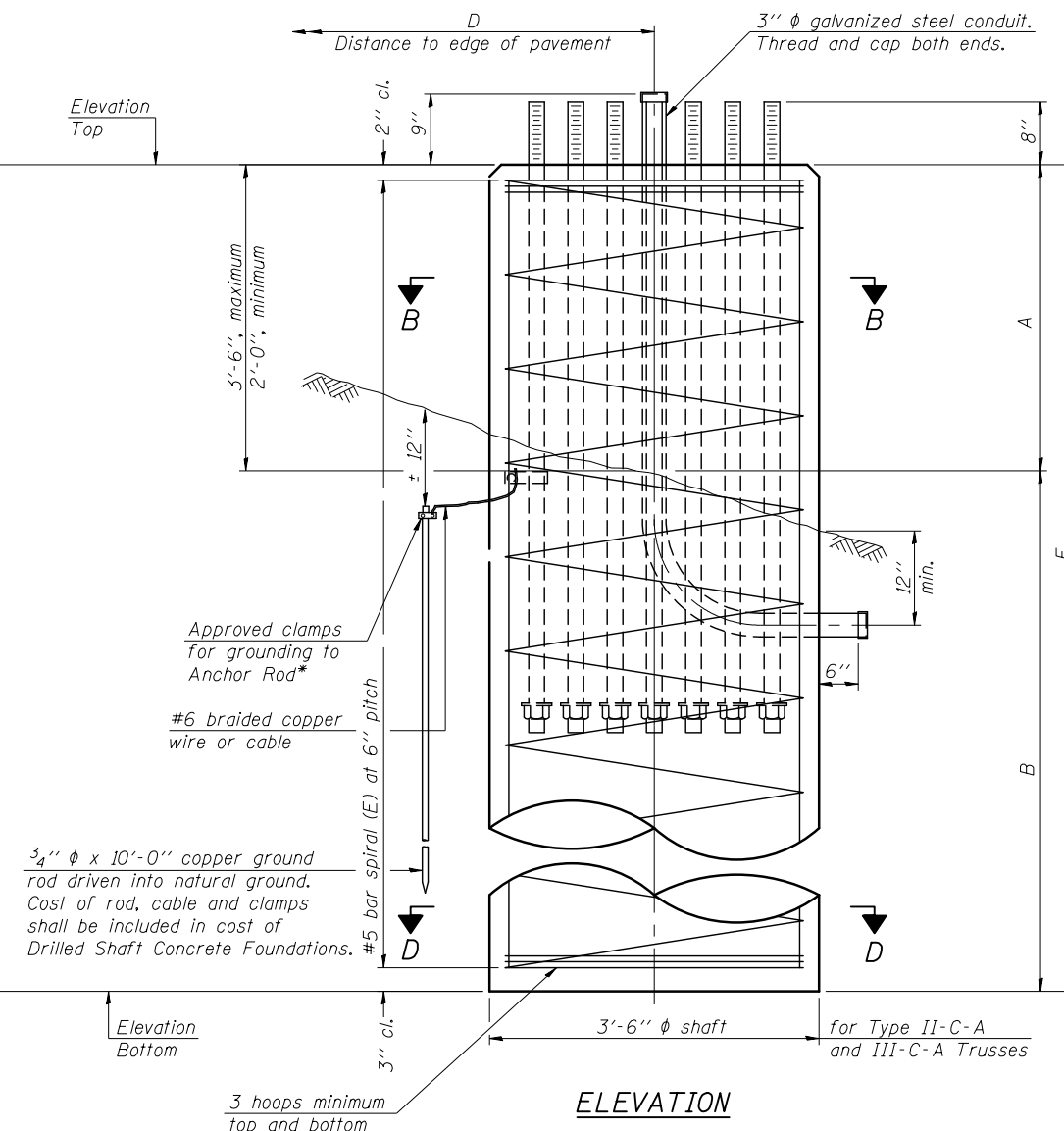
Structure Number	Station	A	⑥ B	C	⑥ D
IC099LWEBR1	809+96	7.375"	2.25'	7'	11.5'
IC099I055L263.7	4985+00	8.375"	1'	7'	9'
IC099I055R263.1	7984+05	8.375"	0.75'	7'	8.5'
IC099LWEBR2	810+52	6.875"	2.25'	5.5'	10'
IC099LWEBL3	812+98	6.875"	2.25'	5.5'	10'

FILE NAME = D:\60X10-sh-t-70-details_OSC-Walk-2.dgn

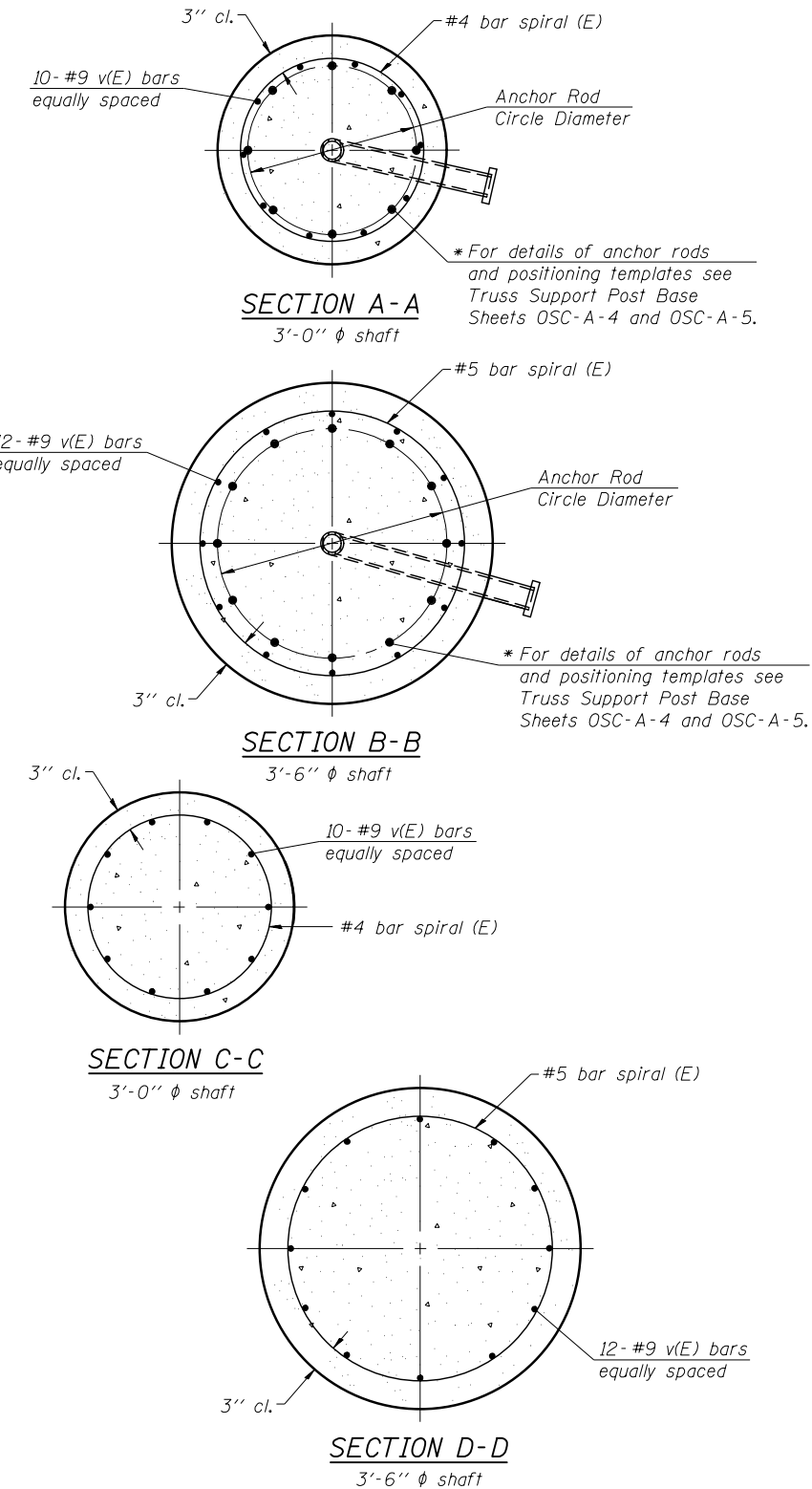
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



ELEVATION



ELEVATION



NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Q_u) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Q_u (TSF)	A	B	F	Class DS Concrete Cubic Yards
IC099LWEBR1	809+96	III-C-A	3.5'	674.09	644.59	2.92	3'	26.5'	29.5'	10.5
IC099I055L263.7	4985+00	III-C-A	3.5'	667.46	632.46	2.16	3'	32'	35'	12.5
IC099I055R263.1	7984+05	III-C-A	3.5'	660.42	625.42	2.06	3'	32'	35'	12.5
IC099LWEBR2	810+52	II-C-A	3.5'	671.90	647.40	2.92	3'	21.5'	24.5'	8.7
IC099LWEBL3	812+98	II-C-A	3.5'	674.80	650.30	2.92	3'	21.5'	24.5'	8.7

OSC-A-9

8-21-13

THE RODRICK GROUP
 1327 W WASHINGTON BLVD
 SUITE 10
 CHICAGO, IL 60607
 www.rodgrp.com

DESIGNED - BAB
 CHECKED - MJM
 SCALE - NONE
 DATE - 03/01/17

REVISED
 REVISED
 REVISED
 REVISED

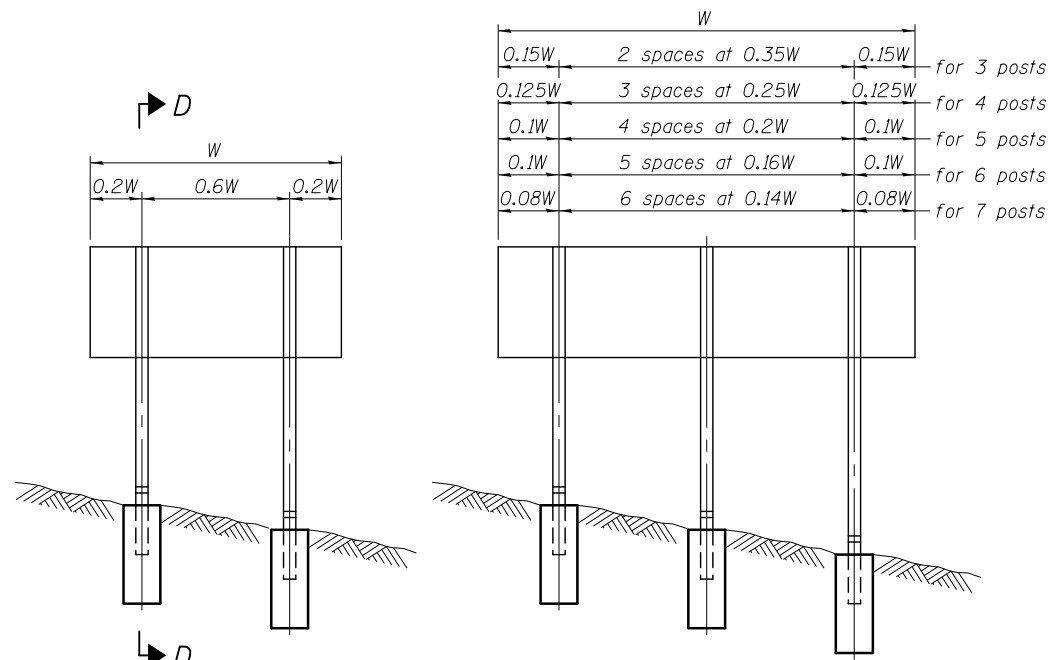
DRAWN - CJD
 CHECKED - MAK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
 ALUMINUM TRUSS & STEEL POST

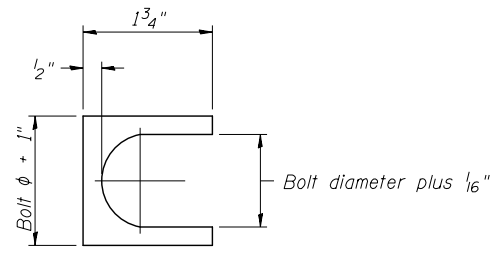
SHEET NO. 8 OF 8 SHEETS

F.A.I./P
 RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 * (99-1HB-1) R-1 WILL 1508 746
SPM-71 CONTRACT NO. 60X10
 FAI 55, FAP 856 ILLINOIS FED. AID PROJECT



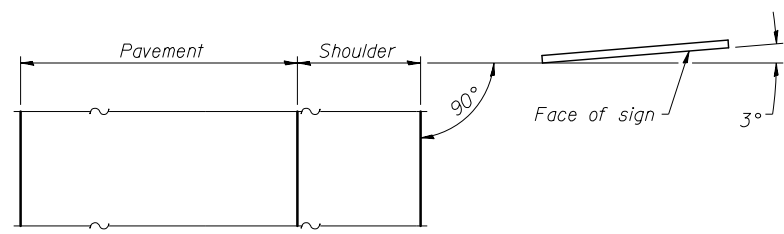
0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

ELEVATION

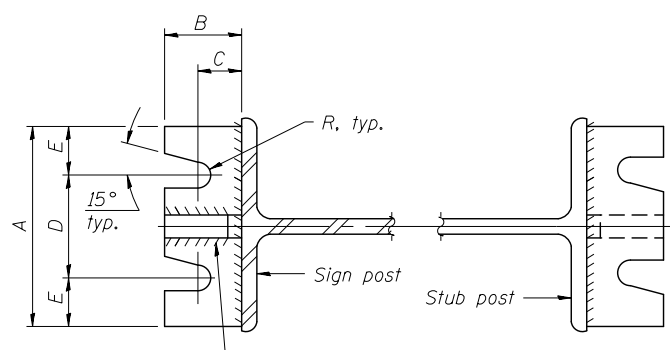


SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

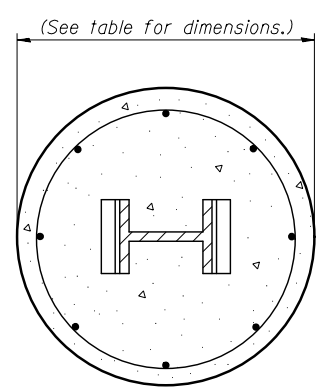


LOCATION SKETCH

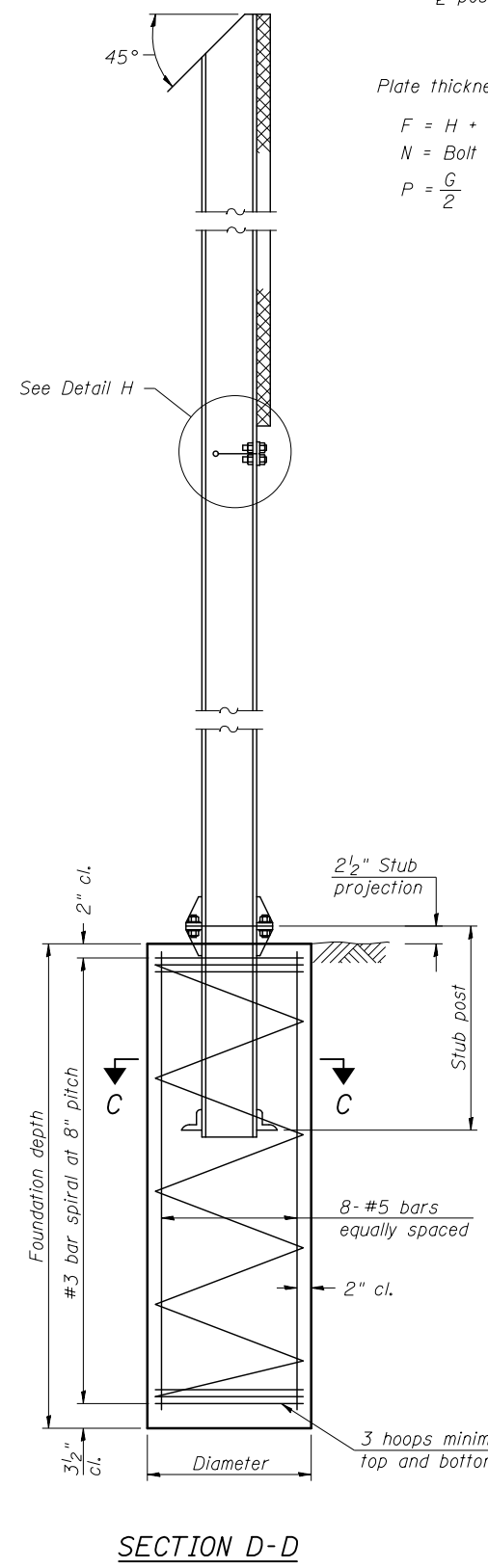


SECTION A-A

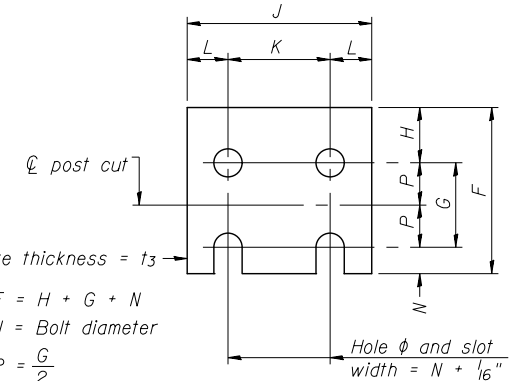
SECTION B-B



SECTION C-C



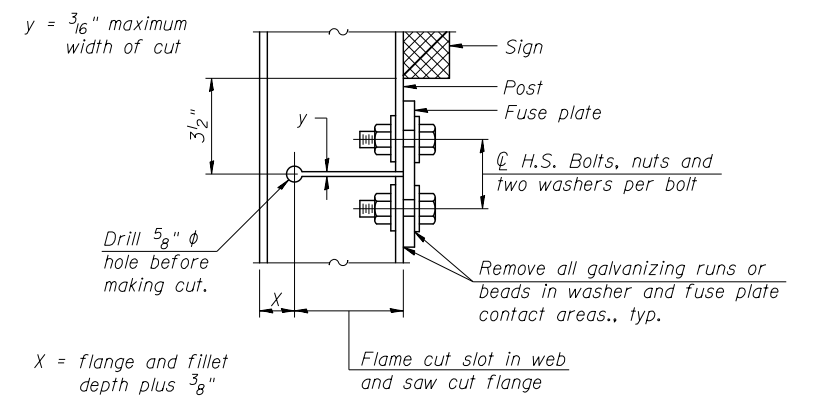
SECTION D-D



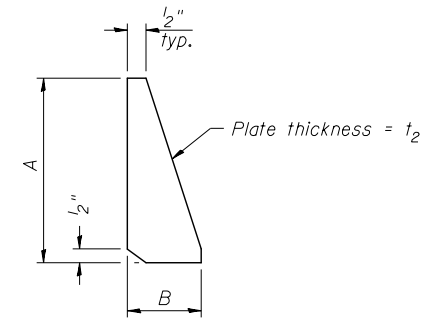
FUSE PLATE DETAIL

(Install with notches down.)

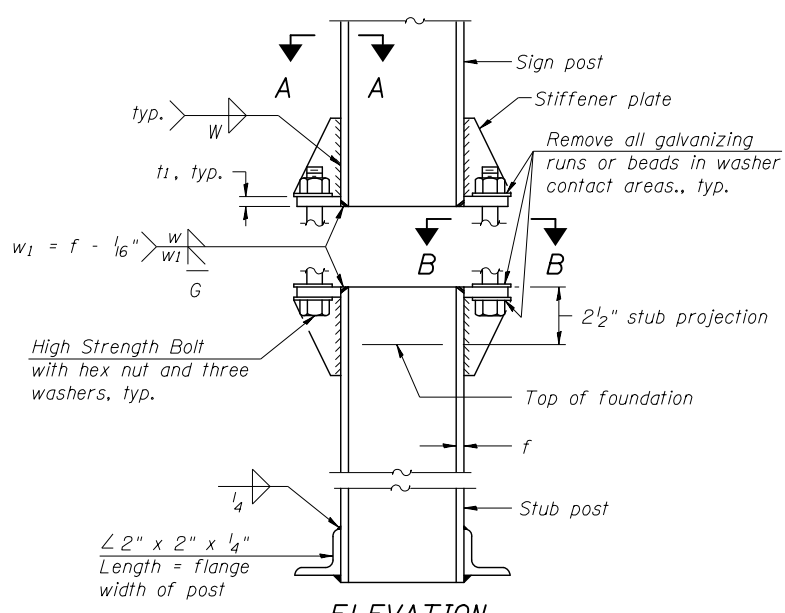
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



STIFFENER PLATE DETAIL



ELEVATION SIGN POST & STUB POST

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
 Structural steel - 20,000 p.s.i.
 Reinforcing steel - 20,000 p.s.i.
 Concrete - 1,400 p.s.i.
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1

6-1-12

(Sheet 1 of 2)



DESIGNED - BAB	REVISION
CHECKED - MJM	REVISION
DRAWN - CJD	REVISION
CHECKED - MAK	REVISION
SCALE - NONE	
DATE - 03/01/17	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS

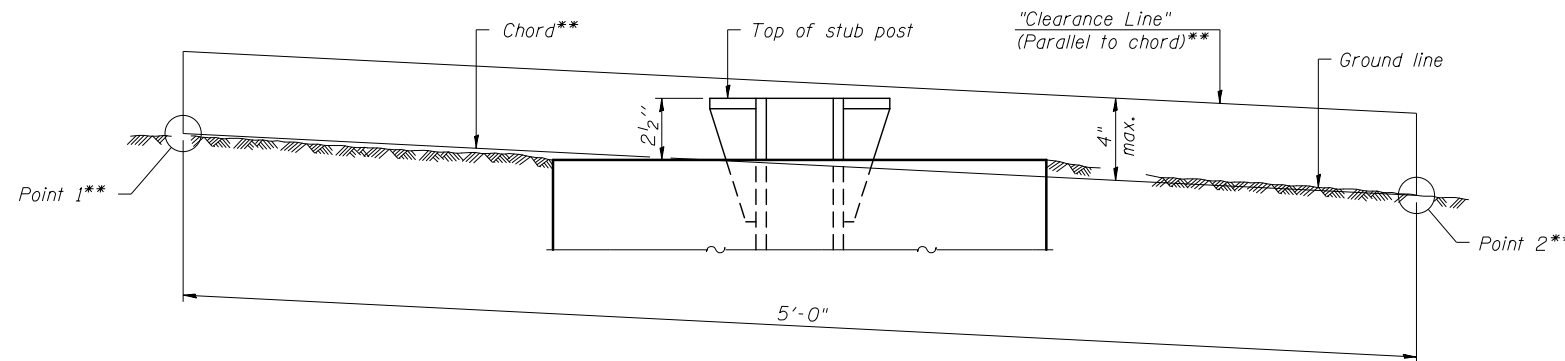
SHEET NO. 1 OF 2 SHEETS

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	747
SPM-72		CONTRACT NO. 60X10		
FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA				
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃	
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Length																lbs. (2)
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

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

POST	FUSE PLATE BOLT SIZE																				
	Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—	—
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—	—	—	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	—	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



ELEVATION
GROUND LINE & STUB POST

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

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

6-1-12

(Sheet 2 of 2)

	THE RODERICK GROUP 1327 W WASHINGTON BLVD SUITE 10 CHICAGO, IL 60607 www.rodgrp.com	DESIGNED - BAB CHECKED - MJM DRAWN - CJD CHECKED - MAK	REVISED REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	F.A.I./P RTE.	SECTION (99-1HB-1) R-1	COUNTY WILL	TOTAL SHEETS 1508	SHEET NO. 748		
	SCALE - NONE DATE - 03/01/17	REVISED	SHEET NO. 2 OF 2 SHEETS			*	SPM-73	CONTRACT NO. 60X10				
							FAI 55, FAP 856 ILLINOIS FED. AID PROJECT					

SCHEDULE OF QUANTITIES

NO	PAY ITEM NAME	UNIT	QTY TOTAL	WEBER & NORMANTOWN	WEBER & I-55 NB RAMPS	WEBER & I-55 SB RAMPS	WEBER & REMINGTON \ WINDHAM	WEBER & RODEO \ REMINGTON	PROPOSED WEBER RD INTERCONNECT	NORMANTOWN & BRUNSWICK	WEBER & 115TH ST	DETOUR
1	SIGN PANEL - TYPE 1	SQ FT	222	60	36	36	60	30				
2	SIGN PANEL - TYPE 2	SQ FT	96		48	48						
3	SERVICE INSTALLATION - GROUND MOUNTED	EACH	2				1	1				
4	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	8,534	169	991	1,047	816	828	4,683			
5	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	137				62	75				
6	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	3,078	699	560	1,290	228	301				
7	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	7,687	983	2,658	2,517	716	813				
8	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	960		960							
9	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 8"	EACH	8		4	4						
10	HANDHOLE	EACH	31	4	5	6	7	4	5			
11	HEAVY-DUTY HANDHOLE	EACH	10	1	2	3	1	3				
12	DOUBLE HANDHOLE	EACH	17	3	4	5	2	3				
13	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	1,932				932	1,000				
14	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2							1	1	
15	TRANSCEIVER - FIBER OPTIC	EACH	5	1	1	1	1	1				
16	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	9,739						9,739			
17	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	17,889	1,396	11,042	1,618	1,405	1,863		565		
18	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	27,124	2,834	15,210	2,164	2,826	3,511		579		
19	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	54,142	4,961	36,612	5,116	4,365	3,088				
20	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	7,118	1,788		316	1,769	3,245				
21	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	31,860	4,562	6,500	11,546	4,654	4,598				
22	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	470	60	134	175	50	51				
23	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	11,789	1,200	4,445	3,561	1,144	1,439				
24	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4	1		1	1	1				
25	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1				1					
26	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	19	2	7	7	1	2				
27	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	6		3	3						
28	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	2	1			1					
29	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1					1				
30	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1		1							
31	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1					1				
32	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1			1						
33	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	4		2	2						
34	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1				1					
35	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1							
36	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1	1								
37	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1			1						
38	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	1	1								
39	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1			1						
40	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	2				1	1				
41	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1		1							
42	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	2				2					
43	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	2	1				1				
44	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	2	1				1				
45	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1					1				
46	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1				1					
47	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 70 FT.	EACH	1	1								
48	CONCRETE FOUNDATION, TYPE A	FOOT	140	16	44	48	16	16				
49	CONCRETE FOUNDATION, TYPE C	FOOT	20	4	4	4	4	4				
50	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	114	10	37	37	10	20				

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KNIGHT Engineers & Architects	USER NAME = mmaestra	DESIGNED GR	REVISED -
	PLOT SCALE = 1:40	DRAWN GR	REVISED -
	PLOT DATE = 11/08/2017	CHECKED MJM	REVISED -
		DATE 11/15/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL
SCHEDULE OF QUANTITIES**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	749
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X10	

SCHEDULE OF QUANTITIES

NO	PAY ITEM NAME	UNIT	QTY TOTAL	WEBER & NORMANTOWN	WEBER & I-55 NB RAMP	WEBER & I-55 SB RAMP	WEBER & REMINGTON WINDHAM	WEBER & RODEO\ REMINGTON	PROPOSED WEBER RD INTERCONNECT	NORMANTOWN & BRUNSWICK	WEBER & 115TH ST	DETOUR
51	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	120	23	28	28	26	15				
52	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	197	67			67	63				
53	DRILL EXISTING HANDHOLE	EACH	1						1			
54	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	62	14	13	12	13	10				
55	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	28	3	12	10	3					
56	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8	1		2	1	4				
57	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	18	5			5	8				
58	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	44	8	8	8	8	8		4		
59	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	80	19	13	12	18	18				
60	INDUCTIVE LOOP DETECTOR	EACH	77	11	17	20	14	15				
61	DETECTOR LOOP, TYPE I	FOOT	783		215	444				124		
62	PREFORMED DETECTOR LOOP	FOOT	4,462	618	597	450	1,078	1,719				
63	LIGHT DETECTOR	EACH	18	4	3	3	4	4				
64	LIGHT DETECTOR AMPLIFIER	EACH	5	1	1	1	1	1				
65	PEDESTRIAN PUSH-BUTTON	EACH	41	7	8	8	7	7		4		
66	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	5	1	1	1	1	1				
67	MODIFY EXISTING CONTROLLER CABINET	EACH	1							1		
68	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1	1	1	1				
69	REMOVE EXISTING HANDHOLE	EACH	59	12	9	11	8	11	8			
70	REMOVE EXISTING DOUBLE HANDHOLE	EACH	6	1	1	1	1	2				
71	REMOVE EXISTING CONCRETE FOUNDATION	EACH	39	9	7	8	7	8				
72	COMMUNICATIONS CABINET AND EQUIPMENT	EACH	1		1							
73	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	8,323	1,250	4,118	504	1,192	1,259				
74	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,893						1,615	278		
75	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	12	4			4	4				
76	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1	1								
77	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC)2/C NO. 10 AND NO. 10	FOOT	970	970								
78	LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	21	5			8	8				
79	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	3	1	1	1						
80	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2	2								
81	CONDUIT SPLICE	EACH	1						1			
82	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	2				1	1				
83	MASTER CONTROLLER (SPECIAL)	EACH	1	1								
84	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	5	1	1	1	1	1				
85	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	9,824						9,824			
86	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	1,684						1,684			
87	OPTIMIZE TRAFFIC SIGNAL SYSTEM (SPECIAL)	EACH	1			1						
88	DIVERGING DIAMOND INTERCHANGE, FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET, SPECIAL	EACH	1			1						
89	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	21	5			8	8				
90	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1							1		
91	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1						1			
92	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	9	1	1	1	1	1				4
93	COMBINATION LIGHTING CONTROLLER	EACH	3	1			1	1				

TRAFFIC SIGNAL GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD, INCLUDING EXACT LOCATIONS OF UTILITIES, PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING MAST ARM FOUNDATIONS AND VERIFYING THE MAST LENGTHS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

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	USER NAME = mmaestra	DESIGNED GR	REVISIONS	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TRAFFIC SIGNAL SCHEDULE OF QUANTITIES</p>	F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:40	DRAWN GR	REVISIONS			*	(99-IHB-1) R-1	WILL	1508	750
	PLOT DATE = 11/9/2017	CHECKED MJM	REVISIONS	SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60X10		* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT		
		DATE 11/15/17	REVISIONS							

TRAFFIC SIGNAL LEGEND

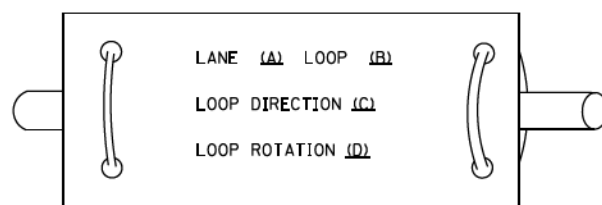
(NOT TO SCALE)

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 1					
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								

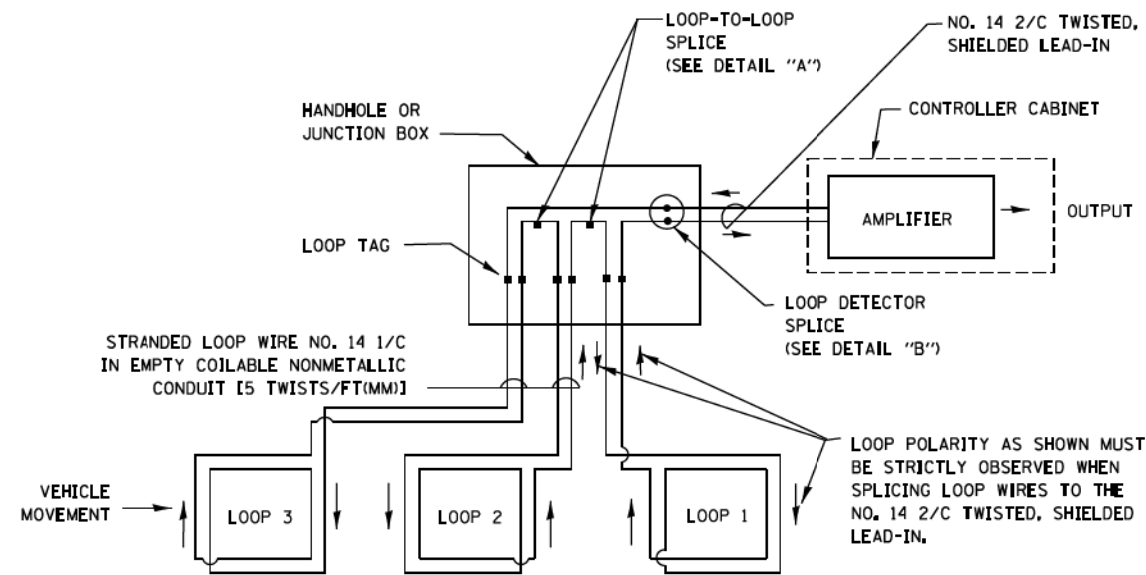
LOOP DETECTOR NOTES

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 DIVESHOLES 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

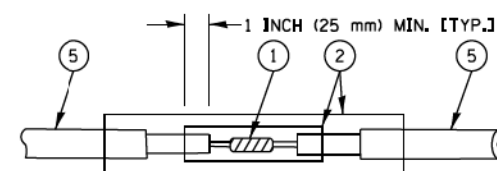


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

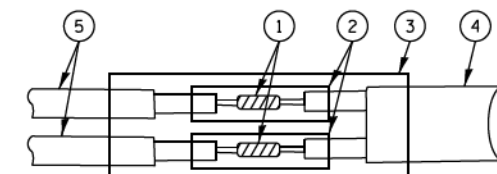


DETECTOR LOOP WIRING SCHEMATIC

- 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.

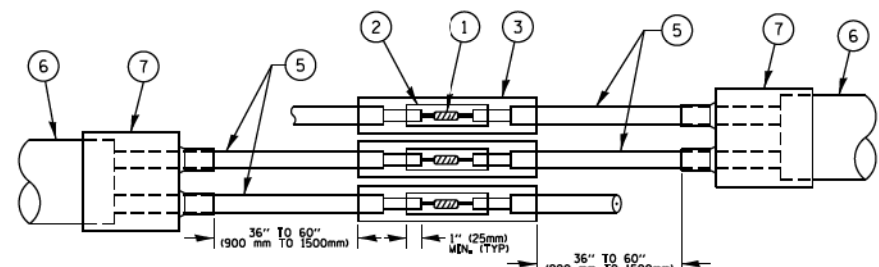


DETAIL "A"
LOOP-TO-LOOP SPLICE

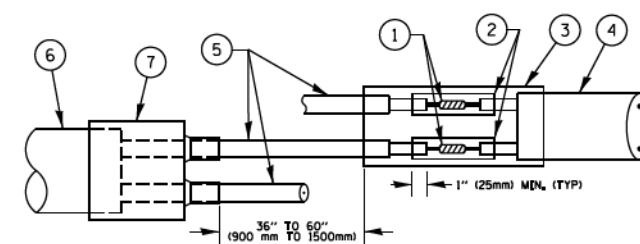


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

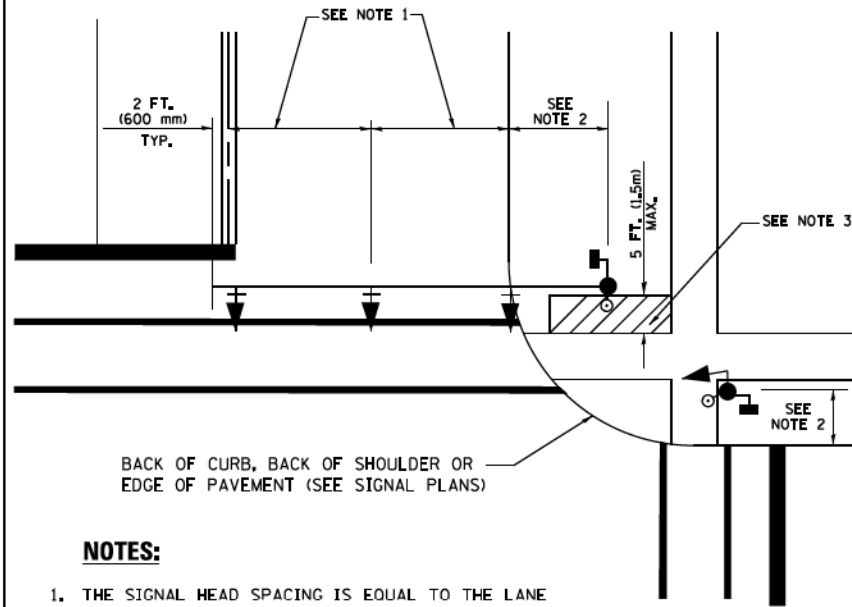
PREFORMED LOOP

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 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE. 856	SECTION (99-1HB-1)A	COUNTY WILL	TOTAL SHEETS 1508	SHEET NO. 752
ca:\pwork\pzd\footemj\d0108315\ts05.dgn	PLLOT SCALE = 50.0000' / in.	DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 60X10		
PLLOT DATE = 1/13/2014	DATE - 10-28-09	CHECKED - DAD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 10-28-09	REVISED -									

**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.**

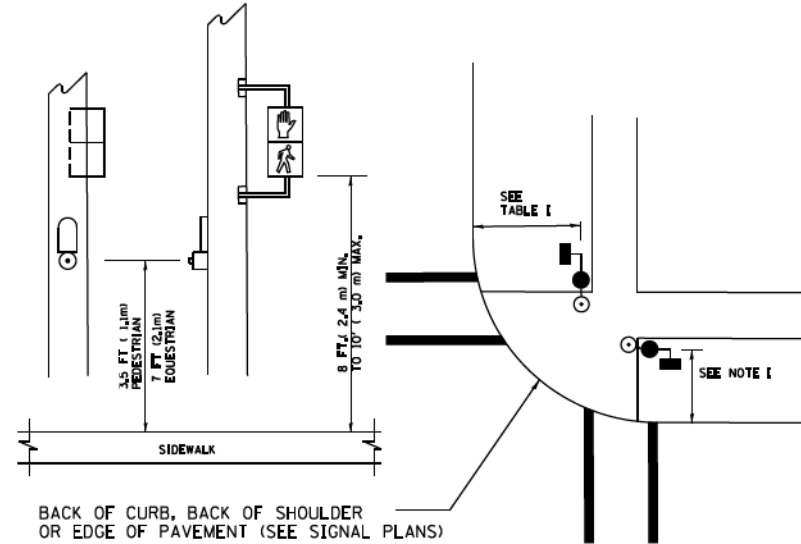


BACK OF CURB, BACK OF SHOULDER OR
EDGE OF PAVEMENT (SEE SIGNAL PLANS)

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**

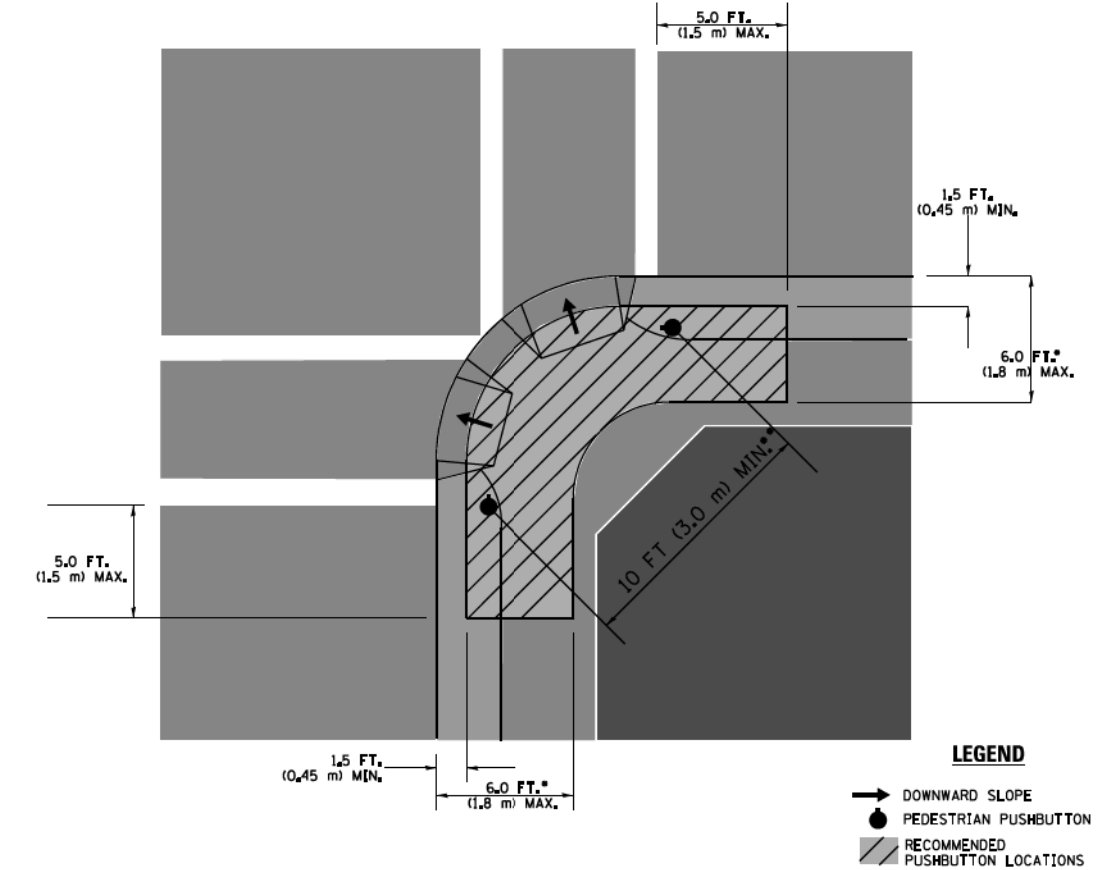


BACK OF CURB, BACK OF SHOULDER
OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

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



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ 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

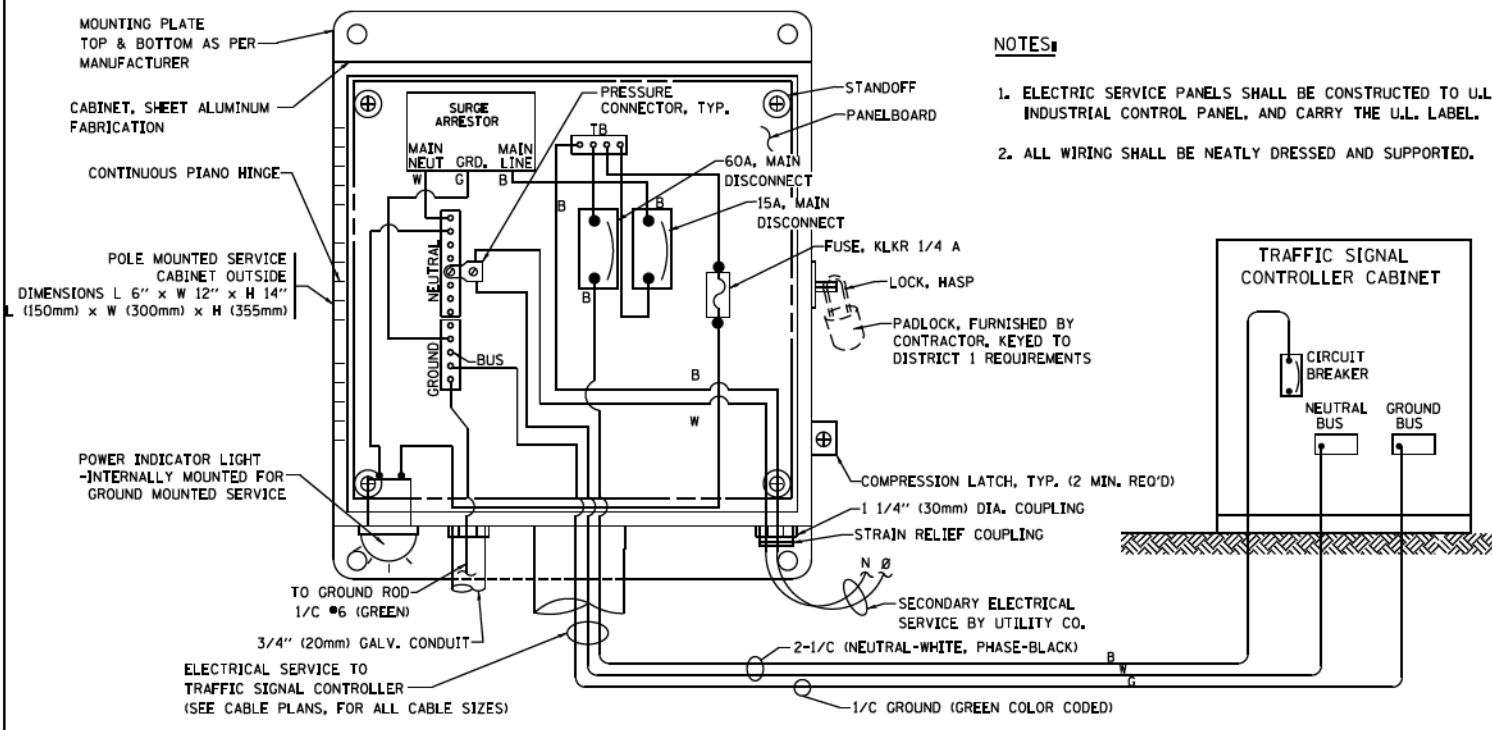
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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:

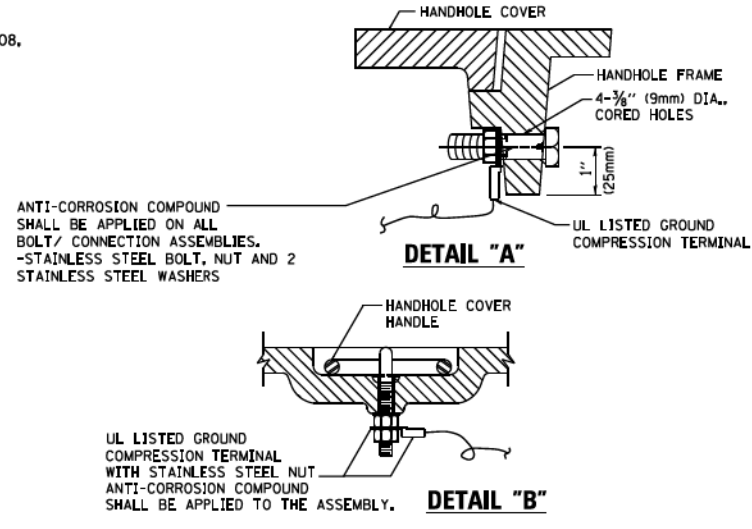
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM 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.

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\footemj\d0108315\ts05.dgn	DRAWN - BCK	REVISED -	856			(99-1HB-1)A	WILL	1508	753	
PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -	TS-05			CONTRACT NO. 60X10				
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.

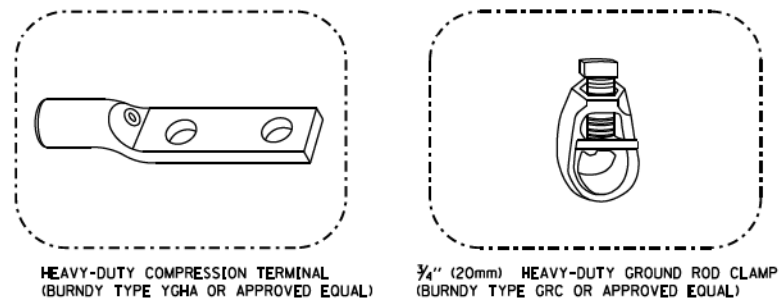
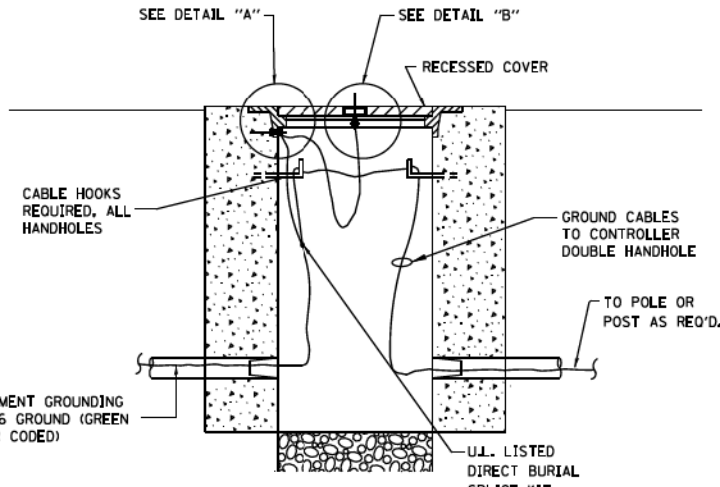


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



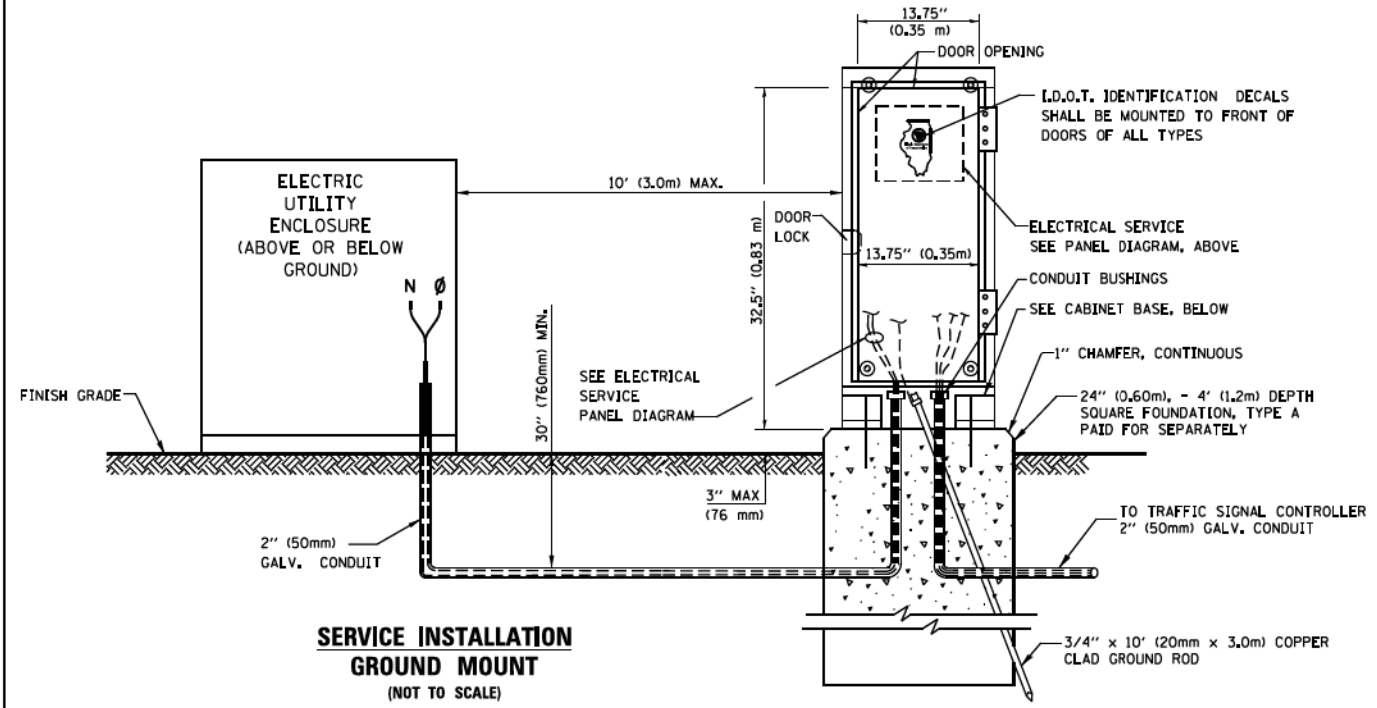
NOTES:
GROUNDING SYSTEM

1. 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.
2. 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.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



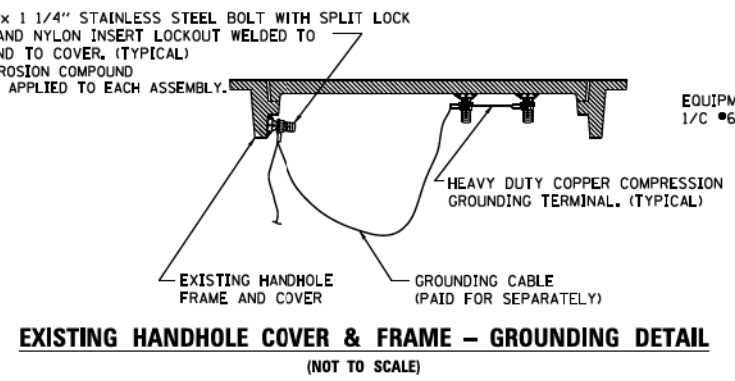
NOTES:

- 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.

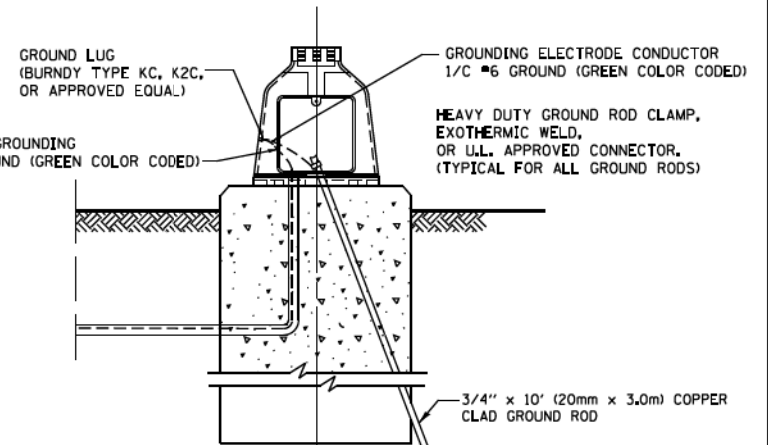


SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

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

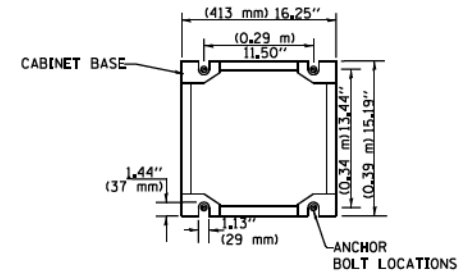


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

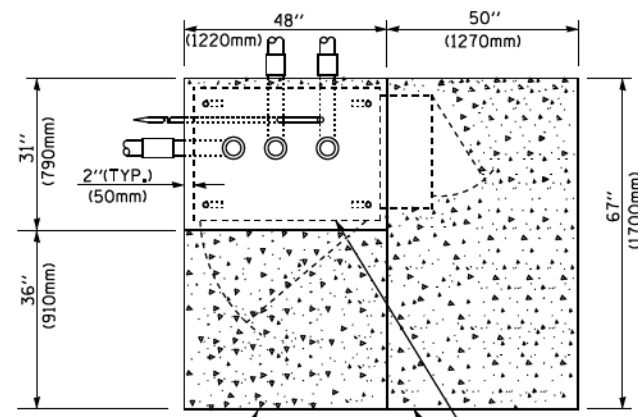


MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

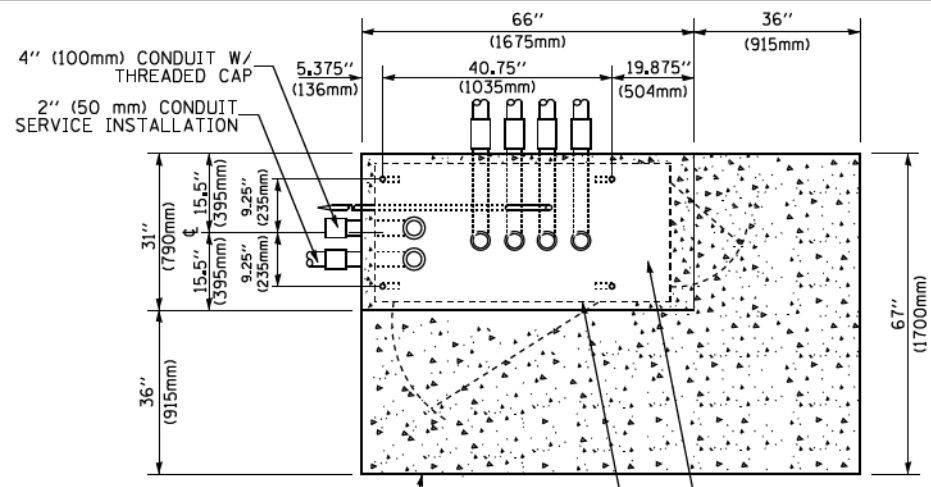
CABINET - BASE BOLT PATTERN (NOT TO SCALE)



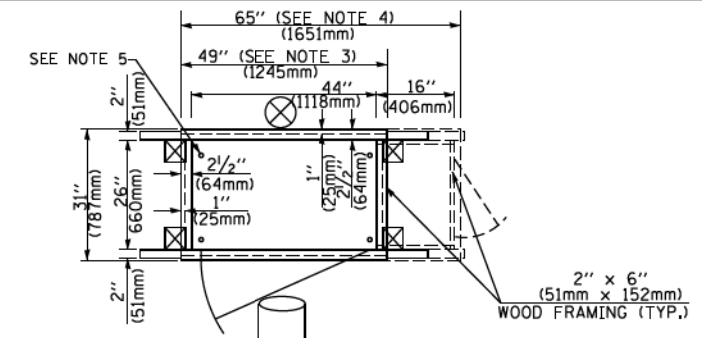
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE. = 856	SECTION = (99-1HB-1)A	COUNTY = WILL	TOTAL SHEETS = 1508	SHEET NO. = 754
DRAWN - BCK	CHECKED - DAD	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 60X10		
PLOT SCALE = 50.0000' / 1"					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
PLOT DATE = 1/13/2014												



TOP VIEW



TOP VIEW



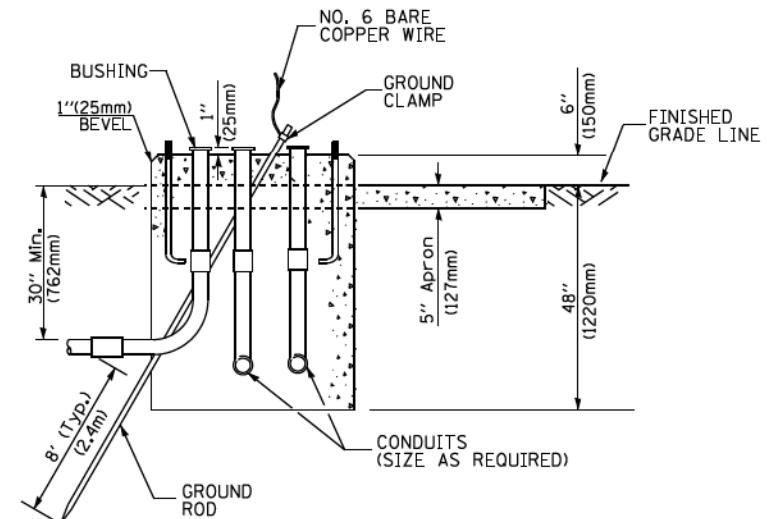
TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

NOTES:

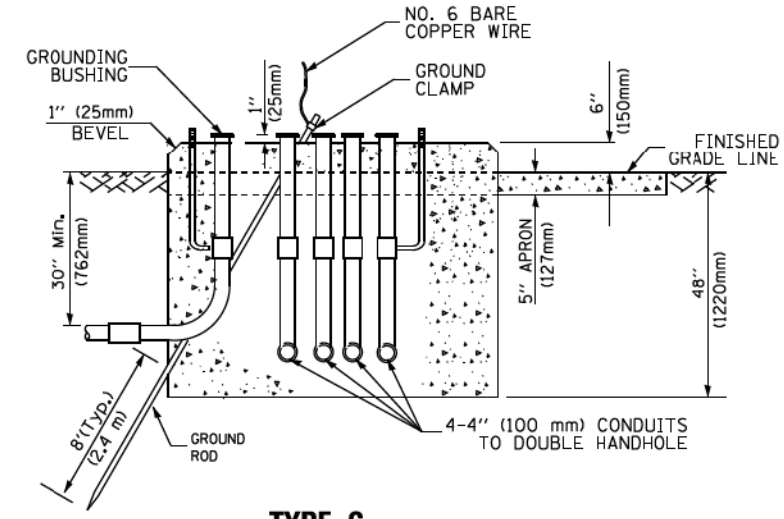
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS 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.

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



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

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)

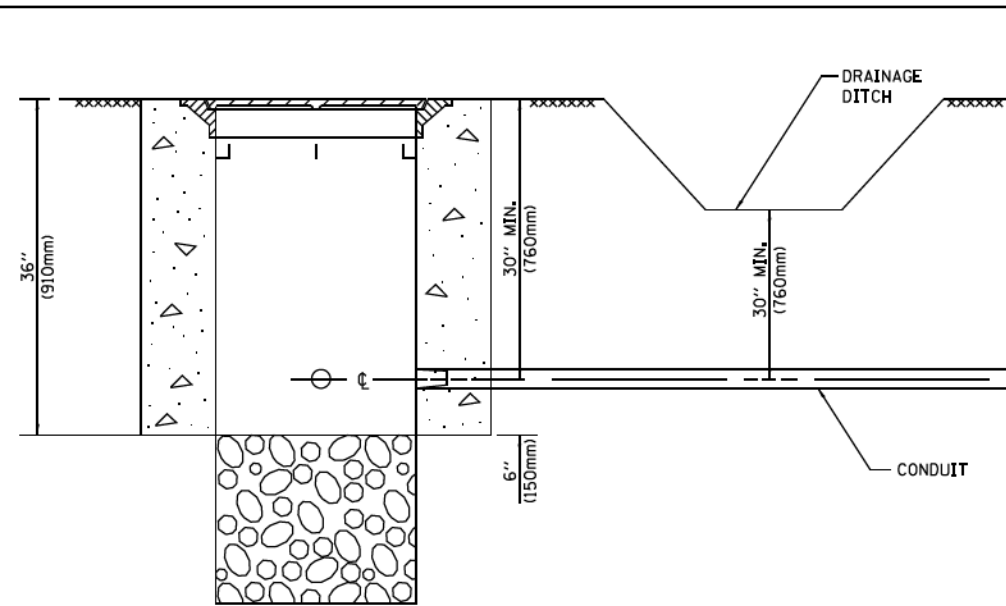
DEPTH OF FOUNDATION

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 up to 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 less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	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.

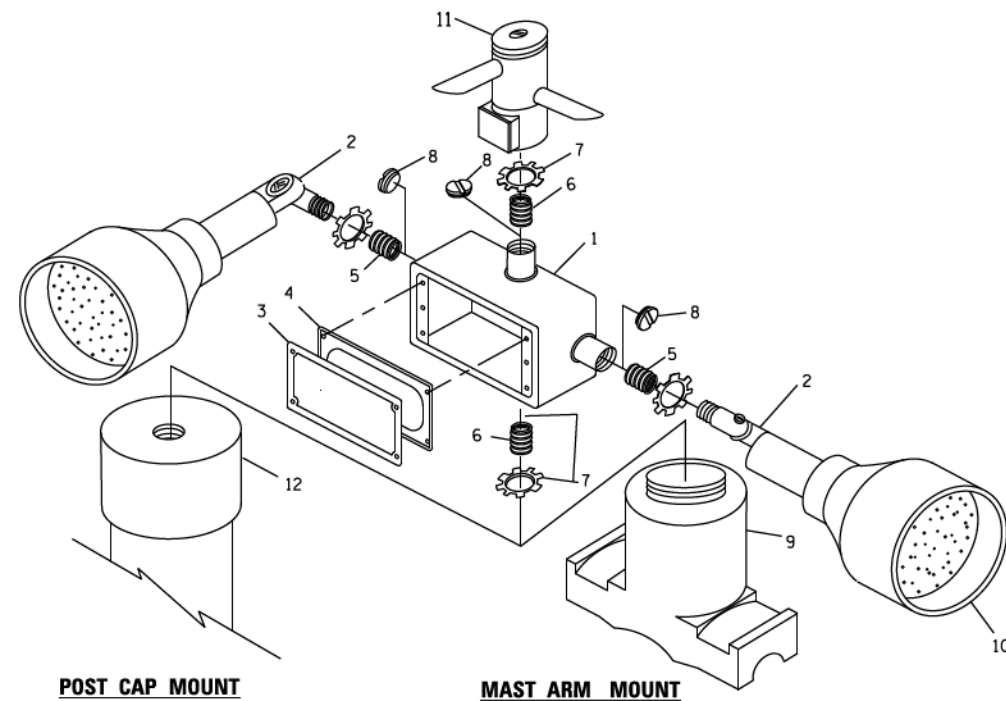
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

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

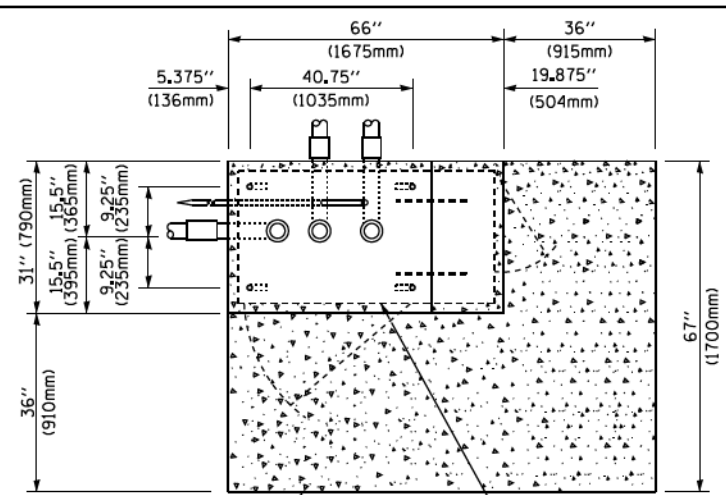
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



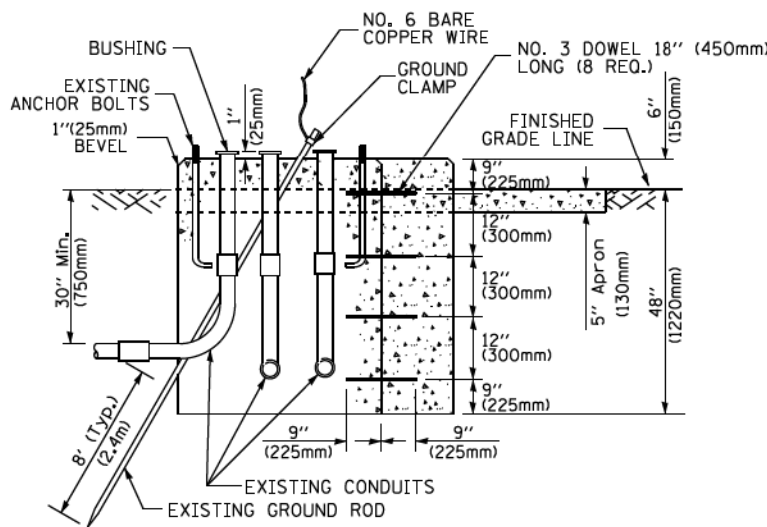
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

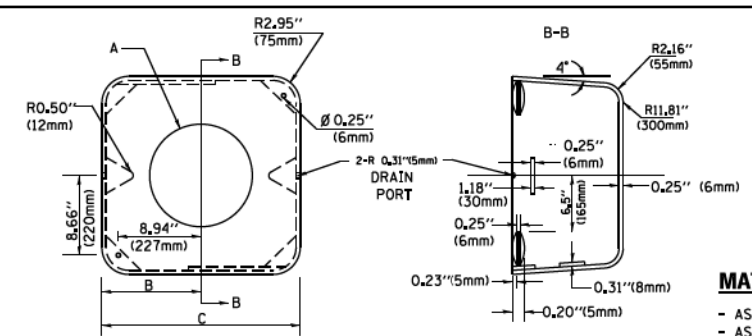


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. 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
3. 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	VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

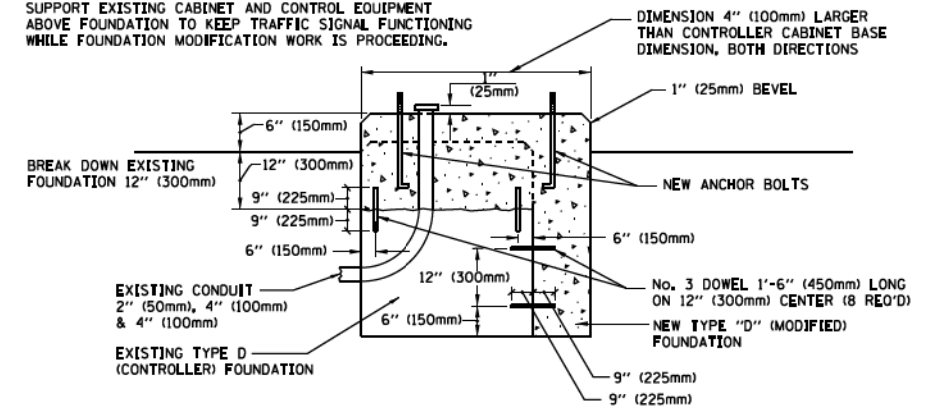
SHROUD

NOTES:

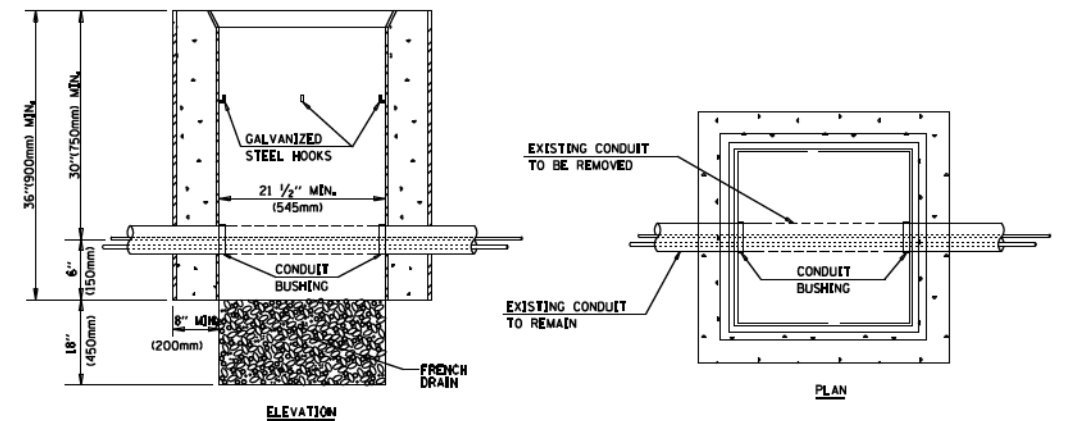
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. 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

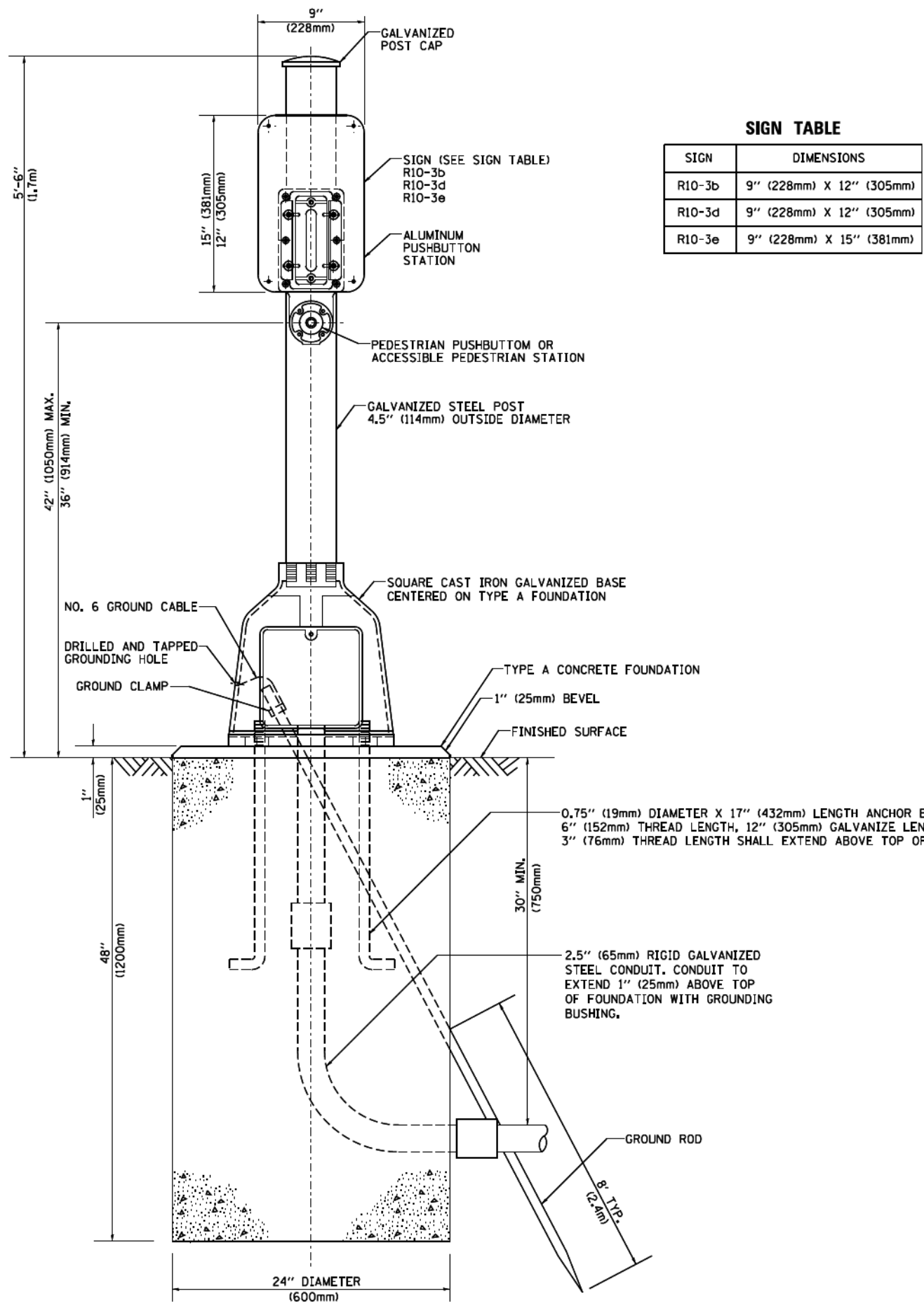
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ca:\pwork\pwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

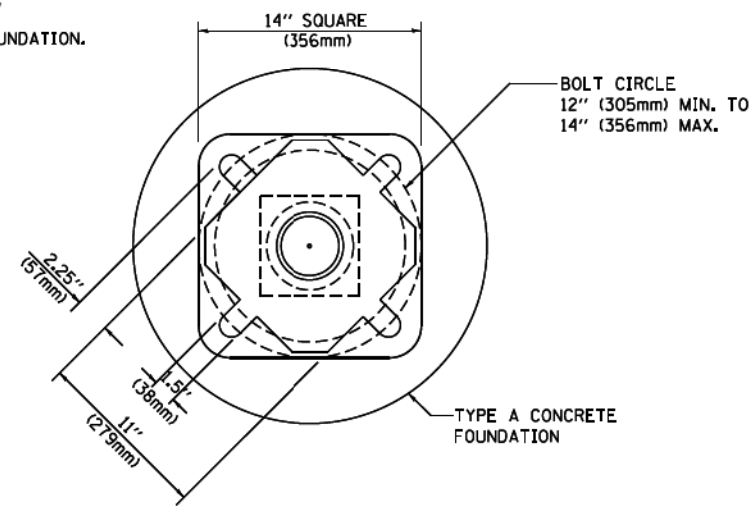
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
856	(99-1HB-1)A	WILL	1508	756
TS-05		CONTRACT NO.	60X10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

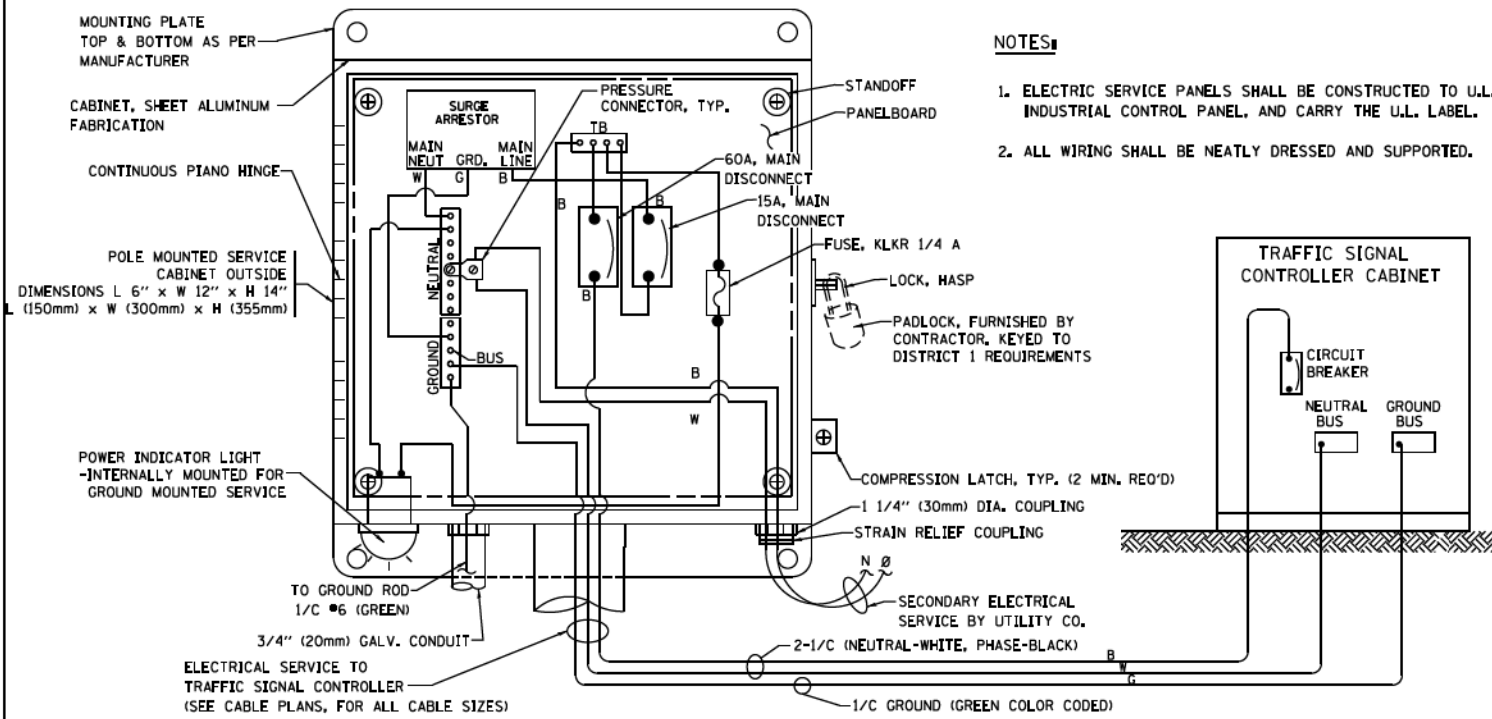
PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
c:\pe_work\pwr\dot\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
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	PLDT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

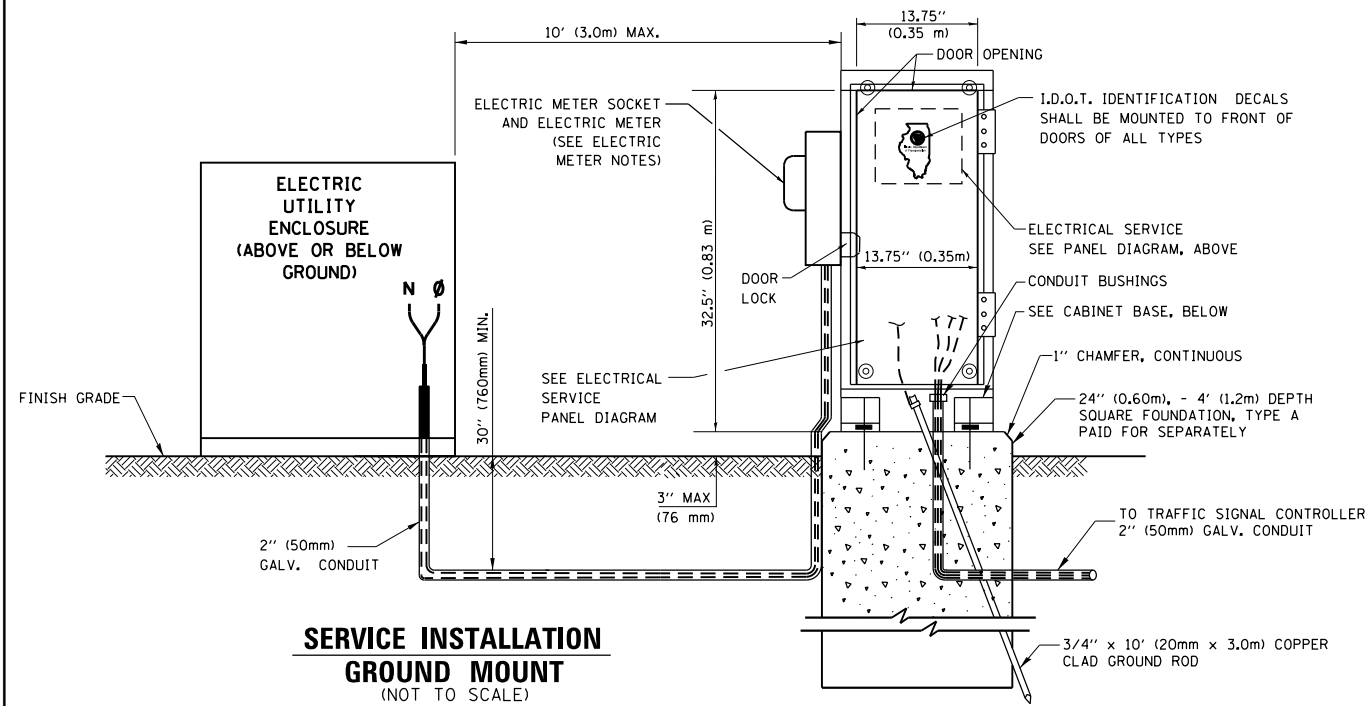
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

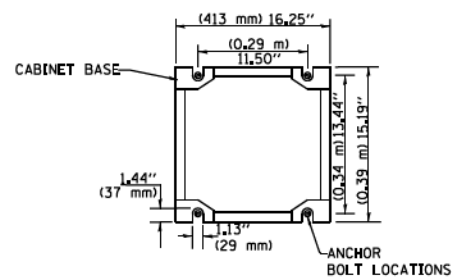
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856	(99-1HB-1)A	WILL	1508	757
TS-05		CONTRACT NO. 60X10		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

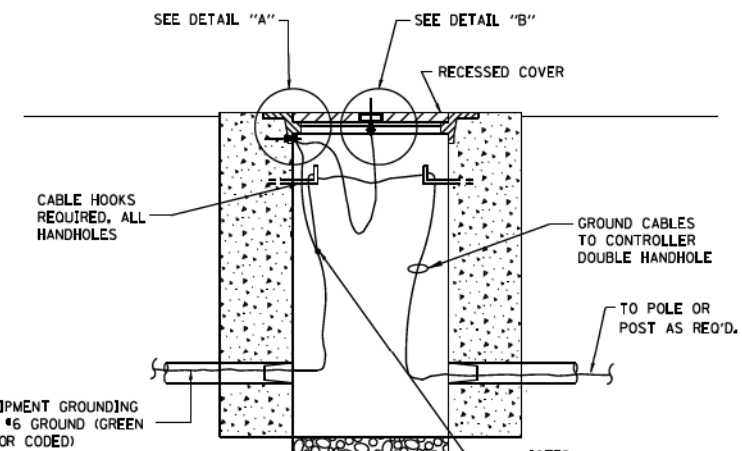
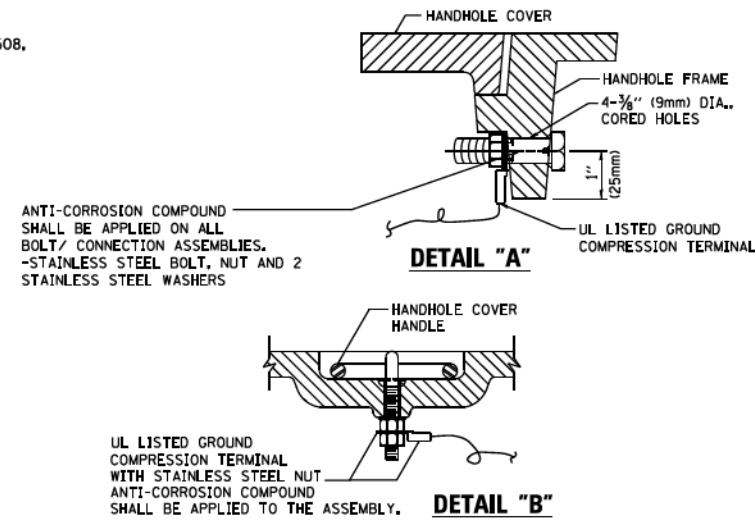


CABINET – BASE BOLT PATTERN
 (NOT TO SCALE)

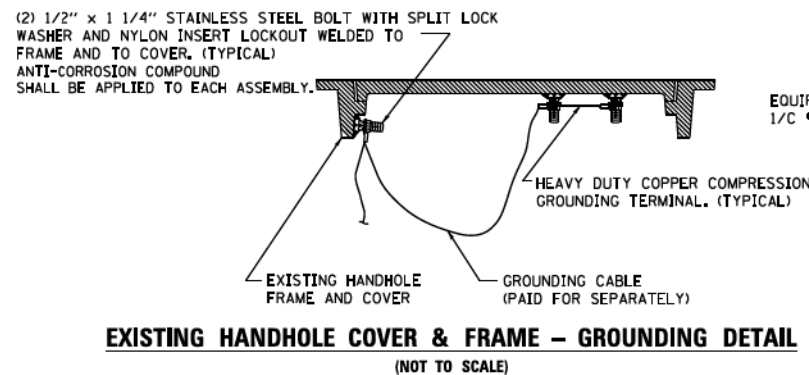


ELECTRIC METER NOTES:

- ELECTRIC METER SOCKET SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THE ELECTRIC UTILITY WILL SUPPLY THE ELECTRIC METER AND THE CONTRACTOR SHALL INSTALL THE METER. THE ELECTRIC METER SOCKET SIZE AND TYPE SHALL BE COORDINATED WITH THE ELECTRIC UTILITY COMPANY.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE SUPPORTS AND ATTACHMENT PLANS FOR APPROVAL BY THE ENGINEER.
- ALL WORK ASSOCIATED WITH THE ELECTRIC SERVICE METER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SERVICE INSTALLATION - GROUND MOUNTED.



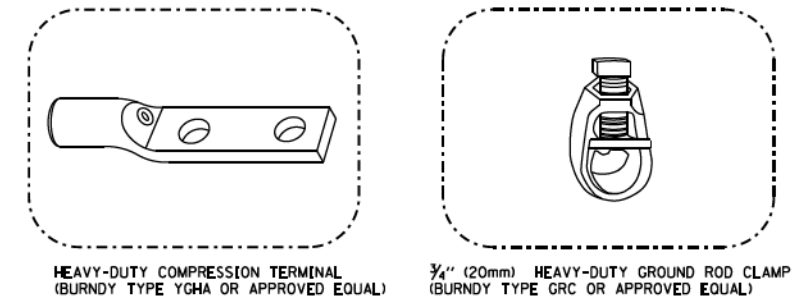
HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)



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

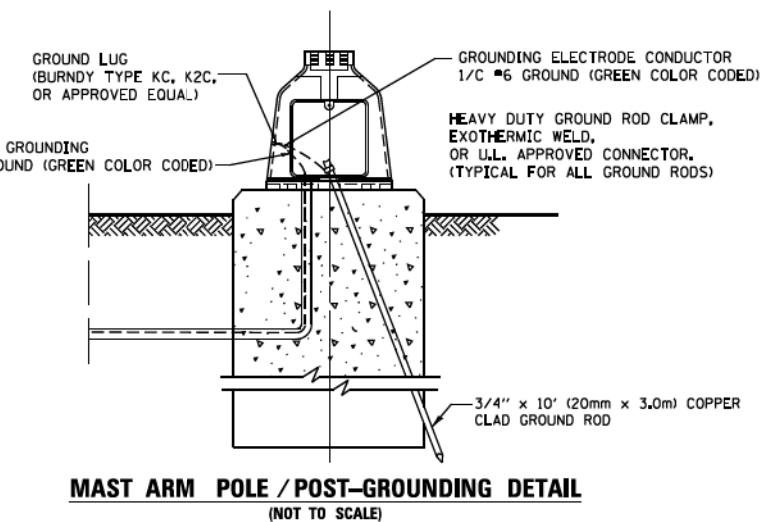
NOTES:
GROUNDING SYSTEM

- 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.



NOTES:

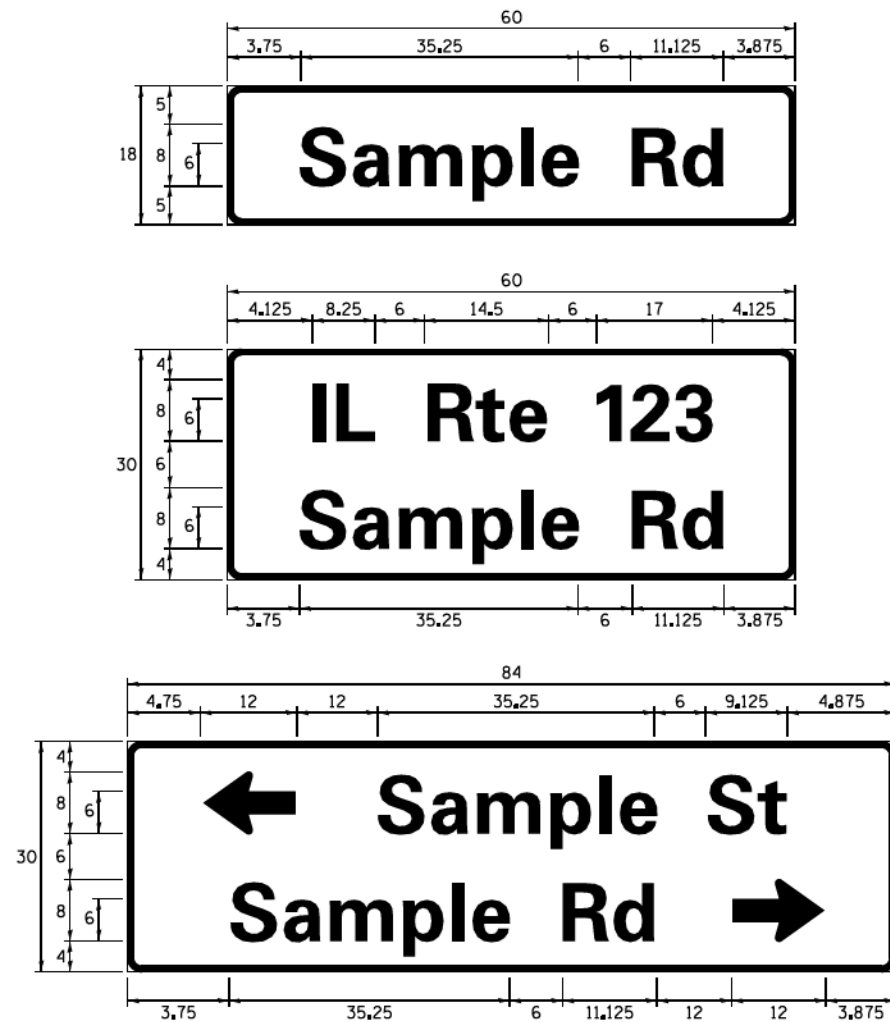
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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

FILE NAME =	USER NAME = Footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	METERED ELECTRIC SERVICE TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE. = 856	SECTION = (99-1HB-1)A	COUNTY = WILL	TOTAL SHEETS = 1508	SHEET NO. = 758
DRAWN - BCK	CHECKED - DAD	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 60X10				
PLT SCALE = 50.0000' / 1"	PLT DATE = 1/13/2014				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	Cir	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:

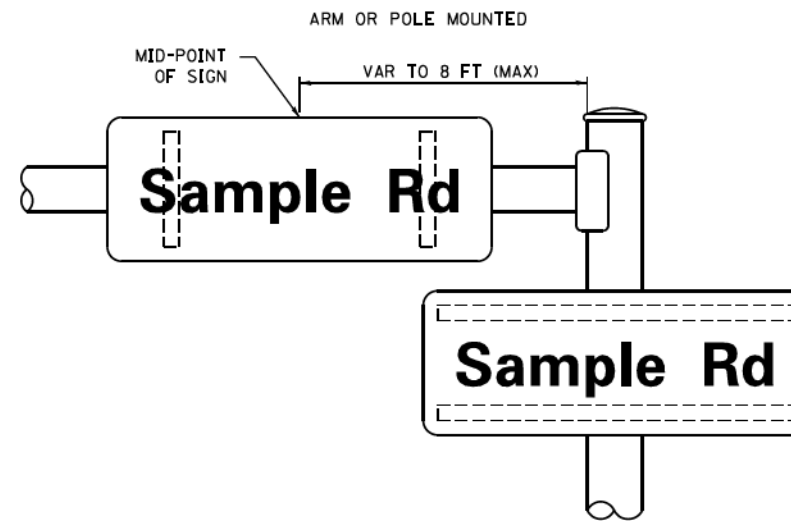
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

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

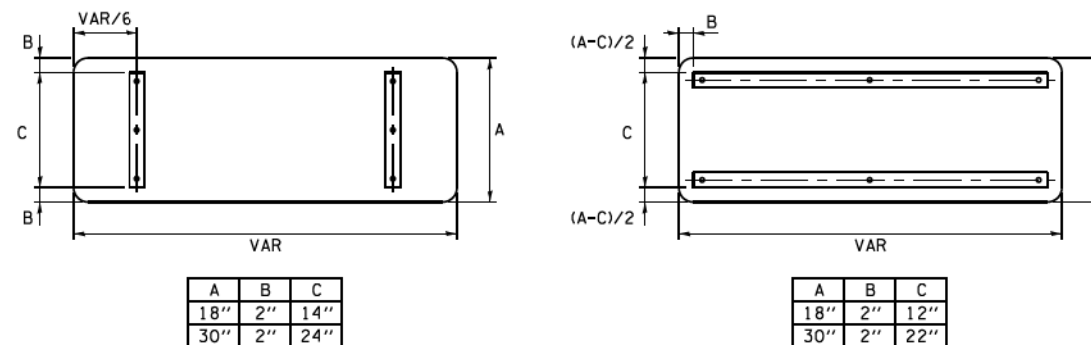
STANDARD ALPHABETS SPACING CHART
(8") UPPER CASE AND (6") LOWER CASE

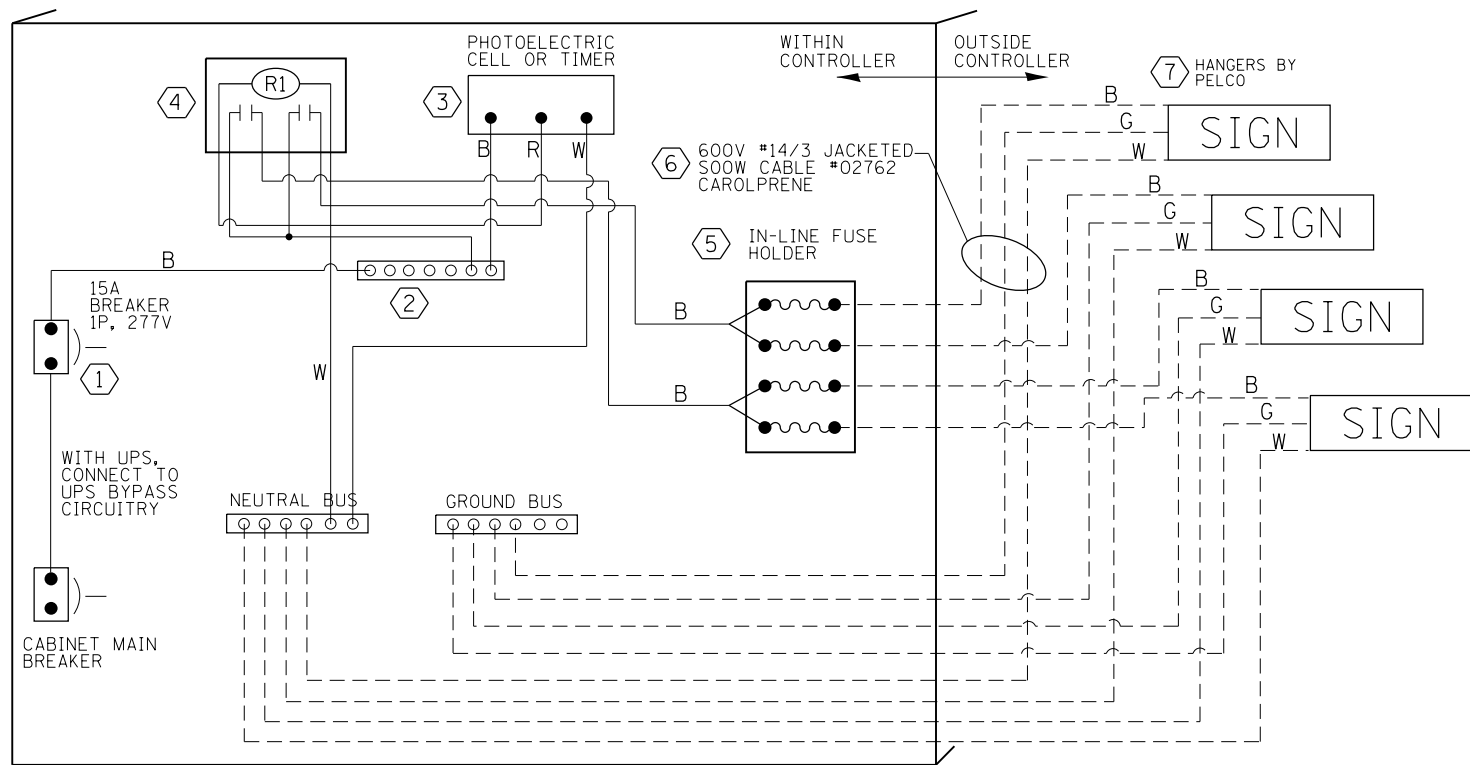
CHARACTER	FHWA SERIES "C"			CHARACTER	FHWA SERIES "D"		
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	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

MOUNTING LOCATION

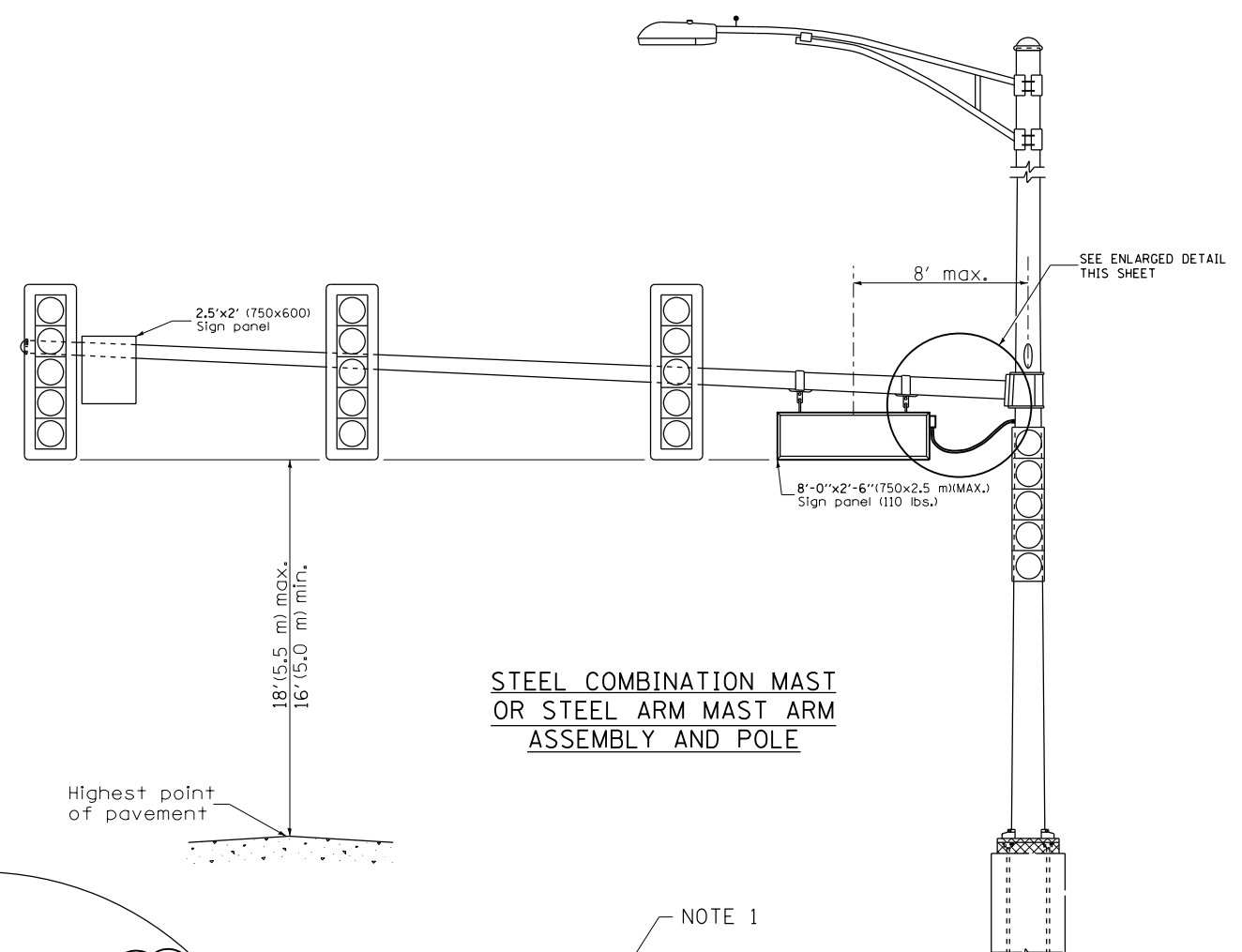


SUPPORTING CHANNELS





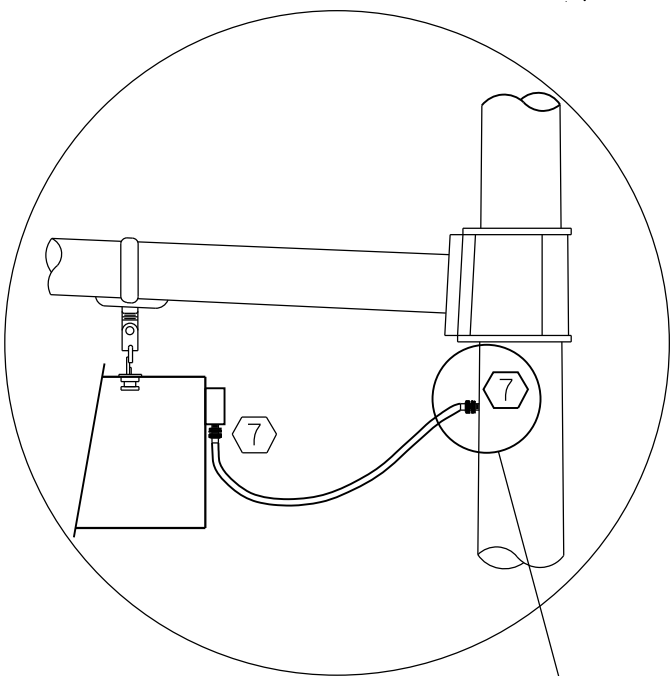
LED SIGN WIRING DETAIL



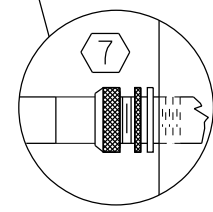
STEEL COMBINATION MAST OR STEEL ARM MAST ASSEMBLY AND POLE

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC OR TIMER CONTROL (varies by location)			INCLUDED IN THE COST OF LED SIGNS
WEBER & NORMANTOWN	FISHER PIERCE	B124-1.5-07762	PHOTO ELECTRIC
WEBER & WINDHAM/REMINGTON	TORK	DZS200BP	TIMER CONTROL
WEBER & RODEO/REMINGTON	TORK	DZS200BP	TIMER CONTROL
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

BILL OF MATERIALS



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



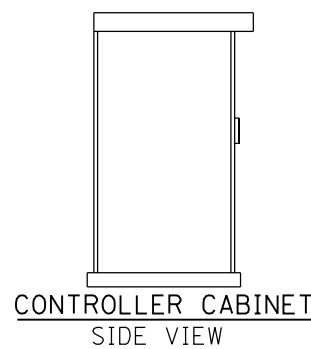
L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



LED ILLUMINATED SIGN PANEL
8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER. VILLAGE JURISDICTION IS INDICATED ON SIGN PANEL DETAIL SHEET.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



CONTROLLER CABINET SIDE VIEW

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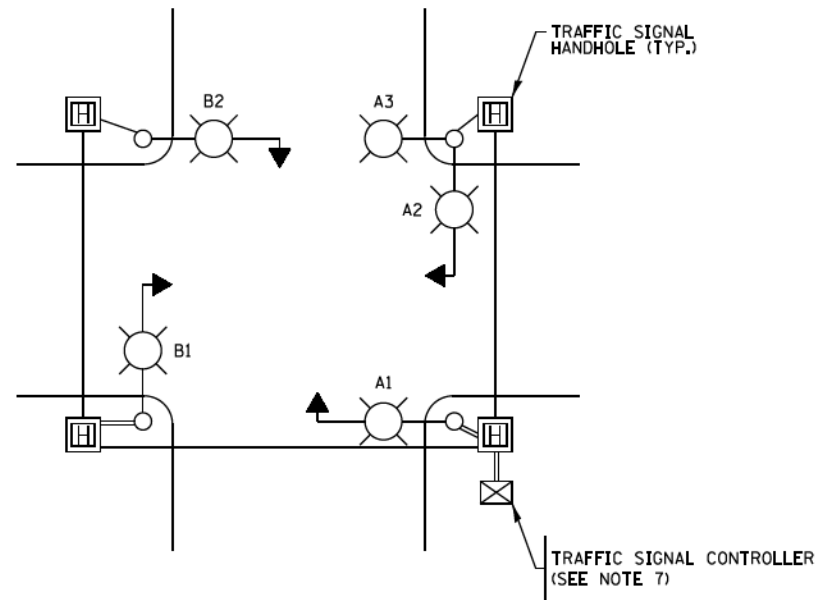
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		DATE 05/12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

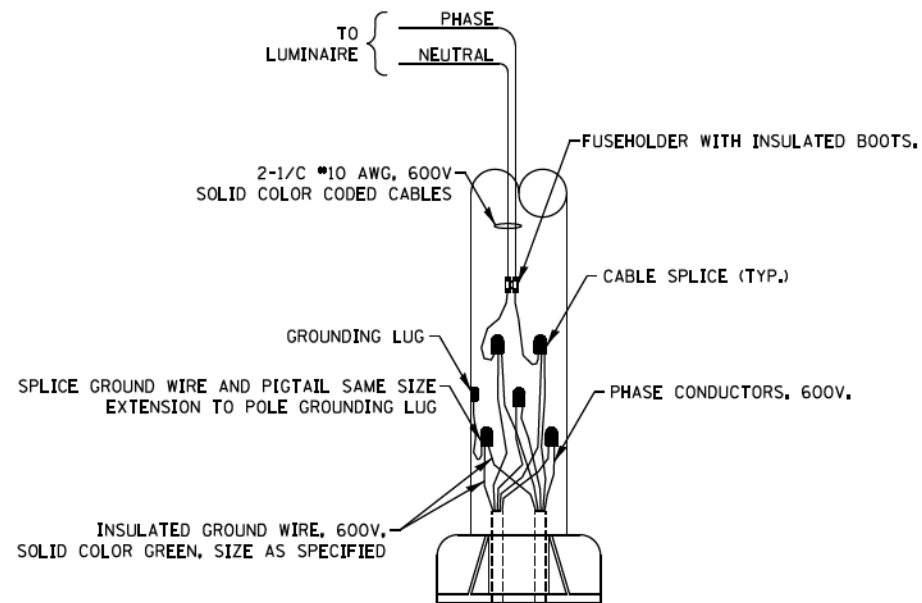
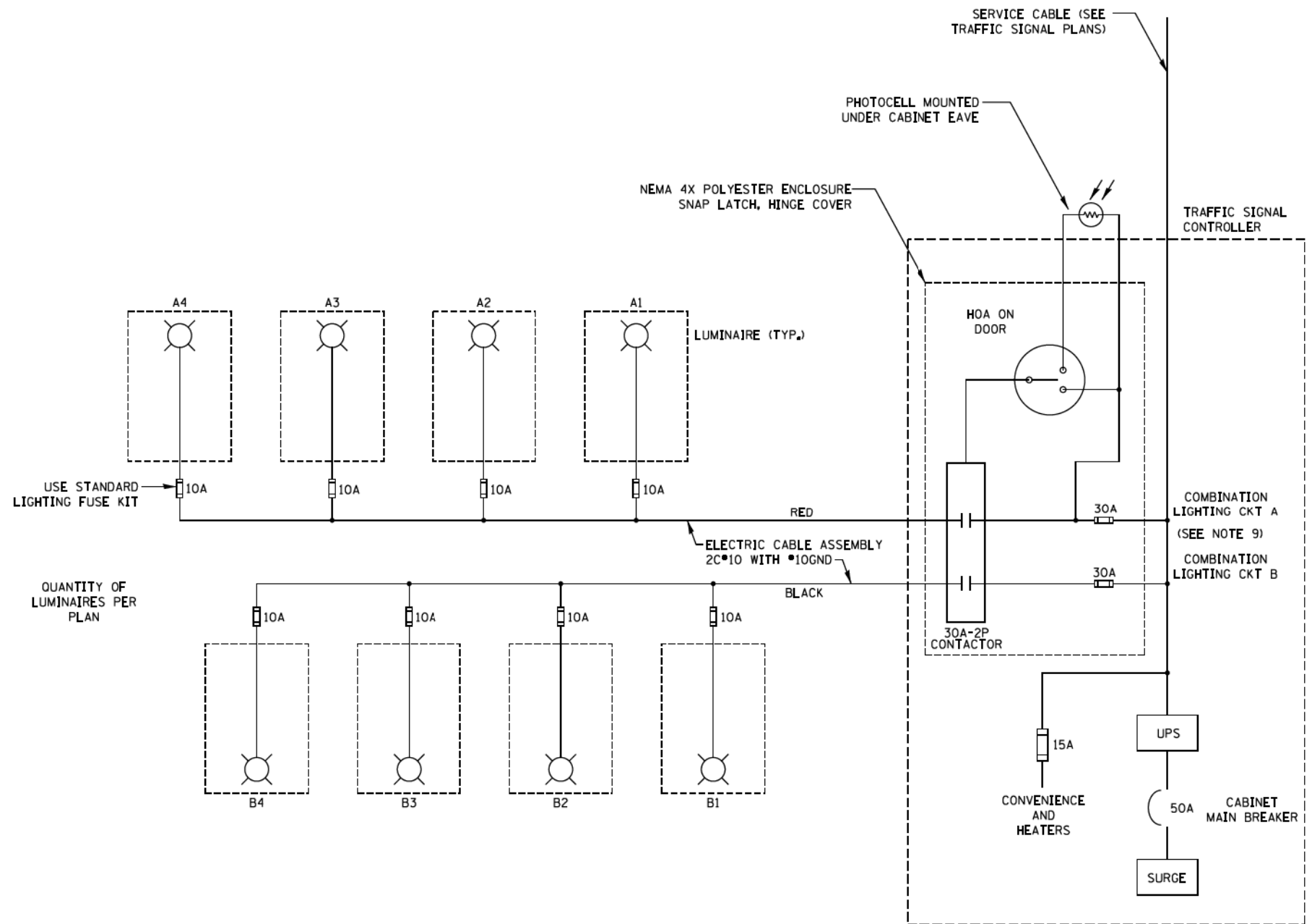
LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM	
SCALE: N.T.S	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	760
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

TS 7350



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES:

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

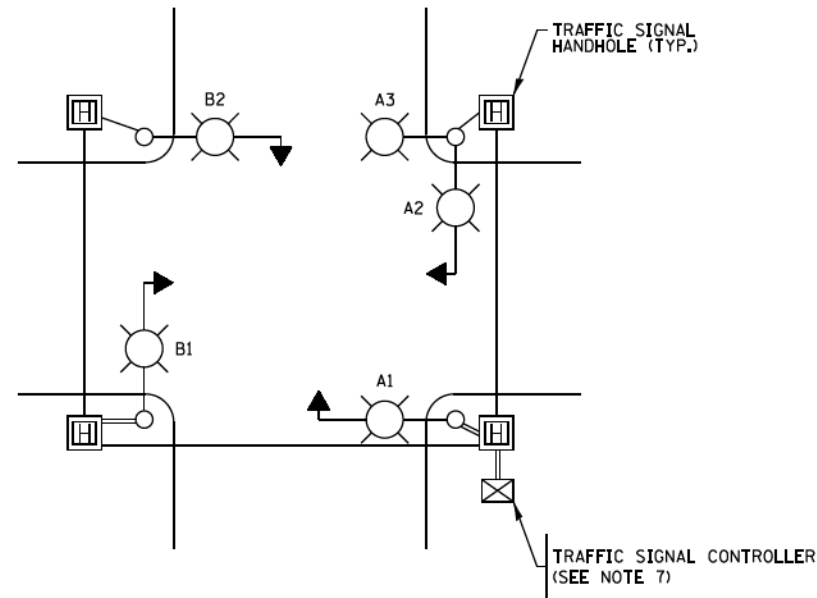
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		DRAWN -	REVISED - 10/13/2015
		CHECKED - RT	REVISED - T.G. 4/12/2017
		DATE - 08/18/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

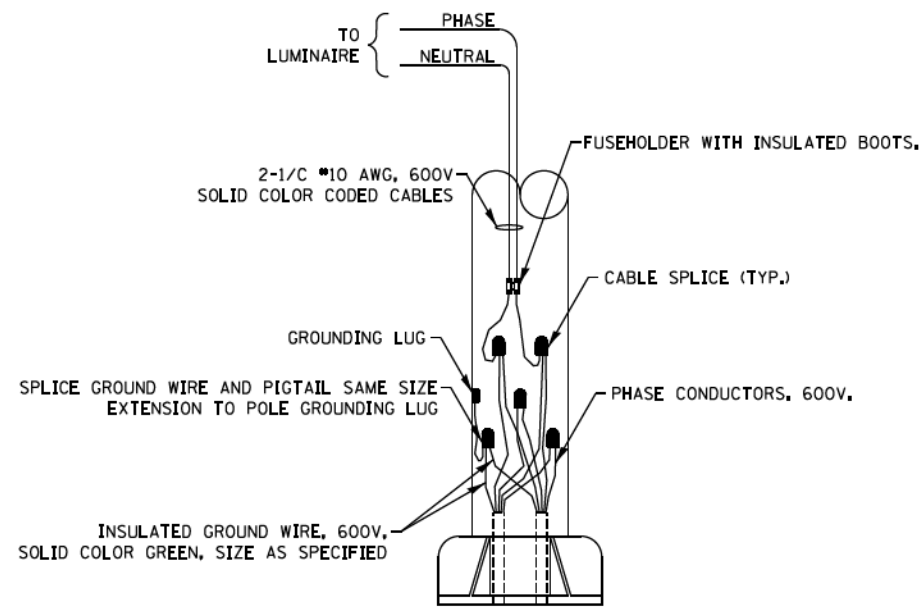
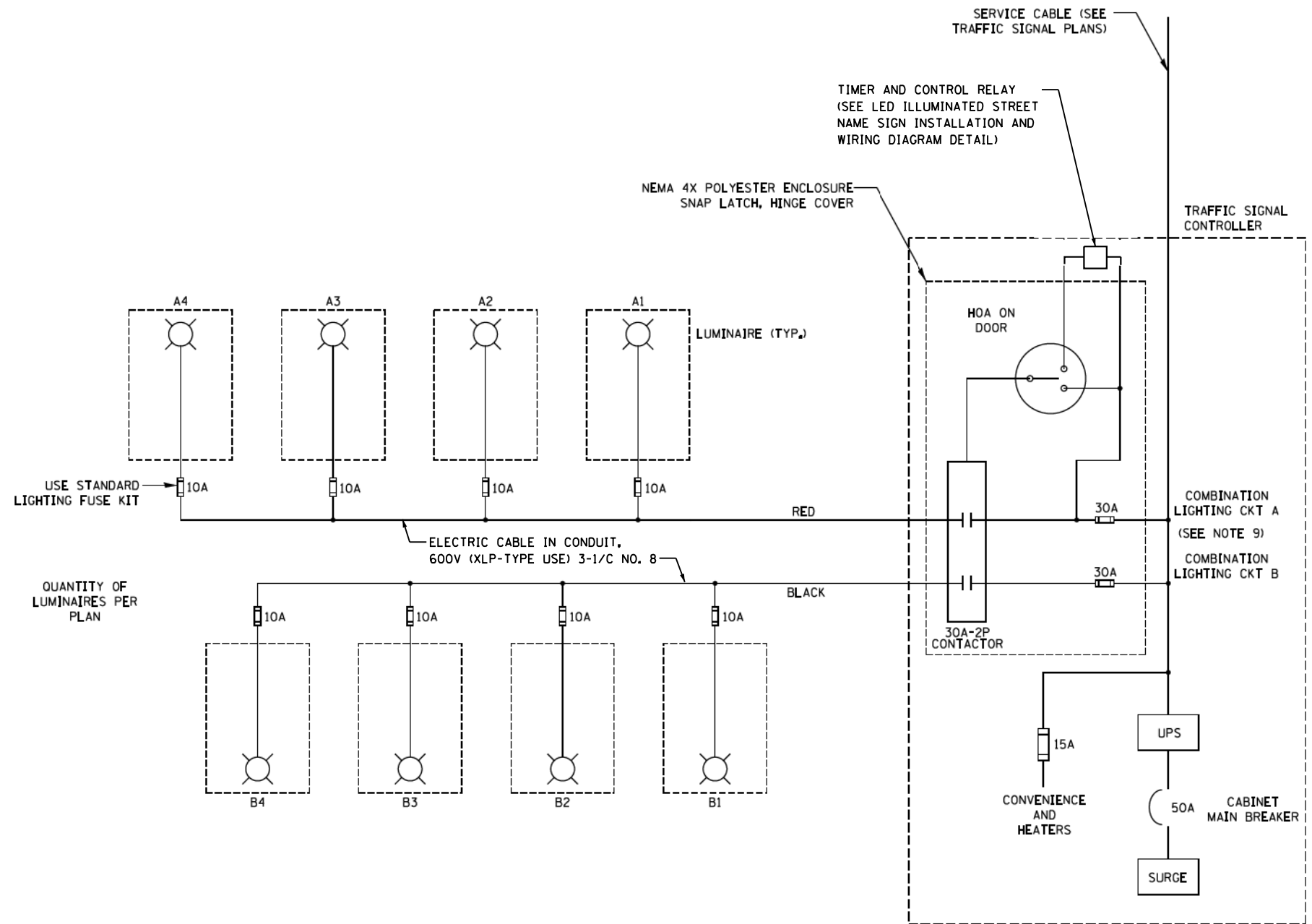
COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 856	SECTION (99-1HB-1)A	COUNTY WILL	TOTAL SHEETS 1508	SHEET NO. 761
BE-240		CONTRACT NO. 60X10		
ILLINOIS FED. AID PROJECT				



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES:

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

FILE NAME = D:\60X10-eh-t-150042-ComboliLightingDetail.dgn

KNIGHT
Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
DRAWN GR	REVISED -	
PLOT SCALE = 1:8.166667	CHECKED MJM	REVISED -
PLOT DATE = 5/13/2017	DATE 05/12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

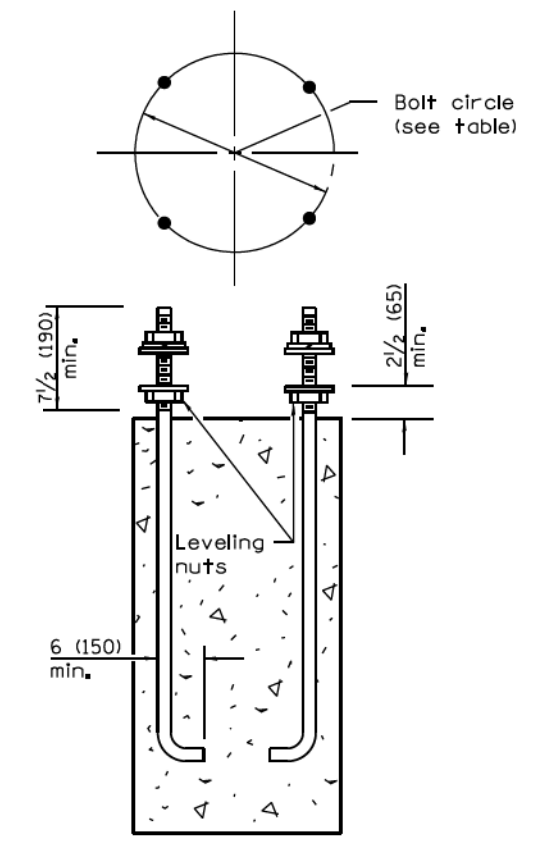
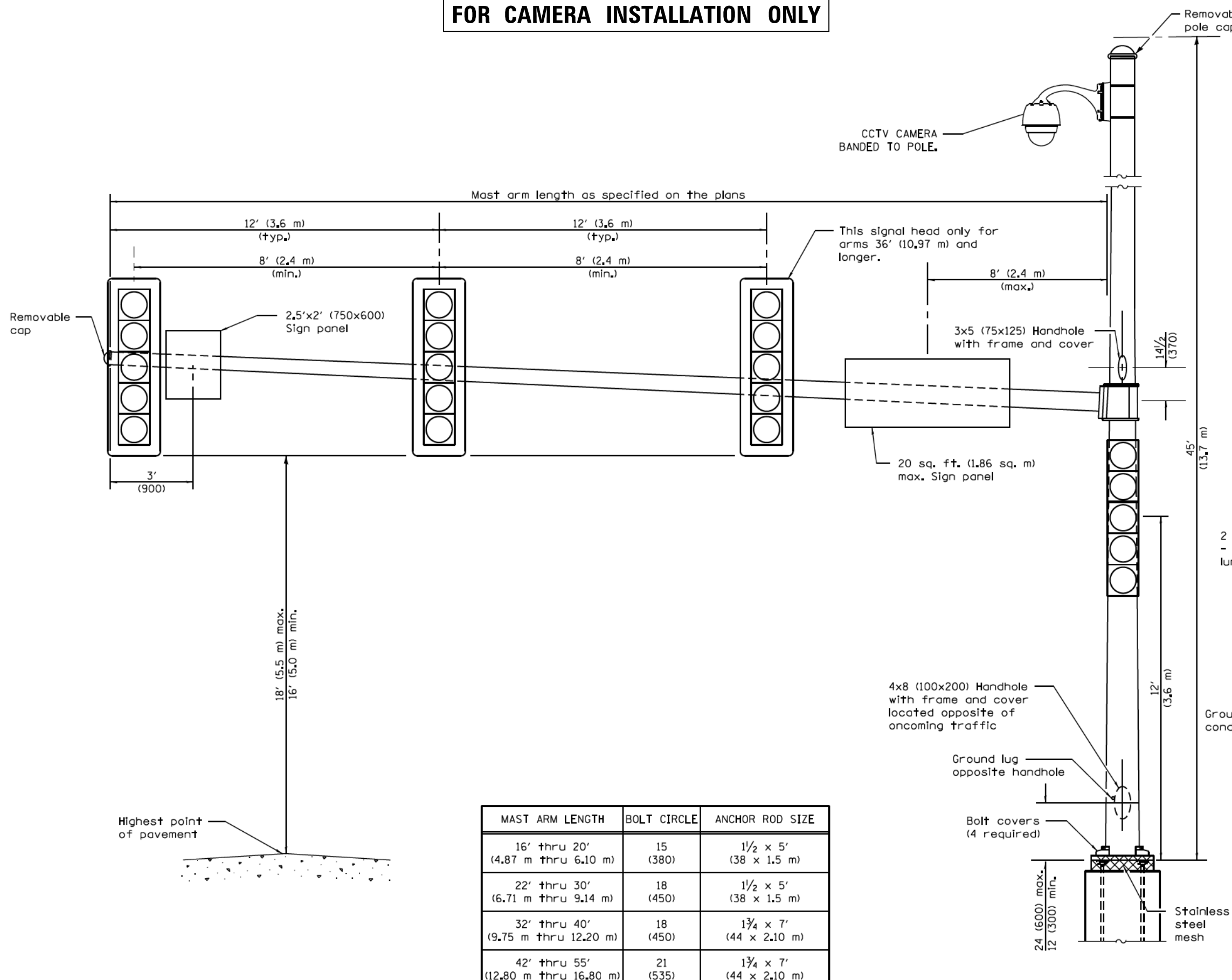
COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
(FOR REMINGTON BLVD / WINDHAM PKWY / WEBER RD AND
RODEO DR / REMINGTON BLVD / WEBER RD ONLY)

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

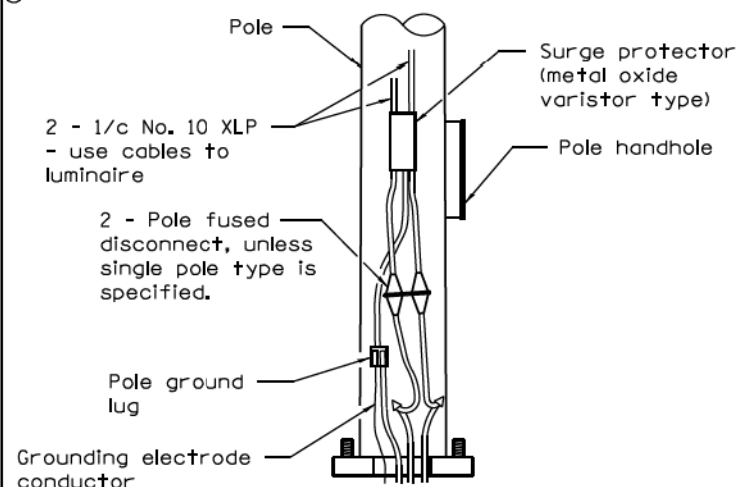
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*	(99-1HB-1) R-1	WILL	1508	762
CONTRACT NO. 60X10				
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				

TS 7350

FOR CAMERA INSTALLATION ONLY



ANCHOR ROD DETAIL



POLE BASE DETAIL

GENERAL NOTES

Signal heads, sign panels, and other attachments are shown for minimum design loading purposes only. Each signal head shall weigh 80 lb (36 kg) and have a projected area of 14.7 sq. ft. (1.37 sq. m).
All dimensions are in inches (millimeters) unless otherwise shown.

MAST ARM LENGTH	BOLT CIRCLE	ANCHOR ROD SIZE
16' thru 20' (4.87 m thru 6.10 m)	15 (380)	1/2 x 5' (38 x 1.5 m)
22' thru 30' (6.71 m thru 9.14 m)	18 (450)	1/2 x 5' (38 x 1.5 m)
32' thru 40' (9.75 m thru 12.20 m)	18 (450)	3/4 x 7' (44 x 2.10 m)
42' thru 55' (12.80 m thru 16.80 m)	21 (535)	3/4 x 7' (44 x 2.10 m)

FILE NAME = D:\60X10-eh-t-150050-CCTVCombM16-55.dgn

KNIGHT
Engineers & Architects

USER NAME = grai	DESIGNED	REVISIONS
PLOT SCALE = 1:40	DRAWN	REVISIONS
PLOT DATE = 5/13/2017	CHECKED	REVISIONS
	DATE	REVISIONS

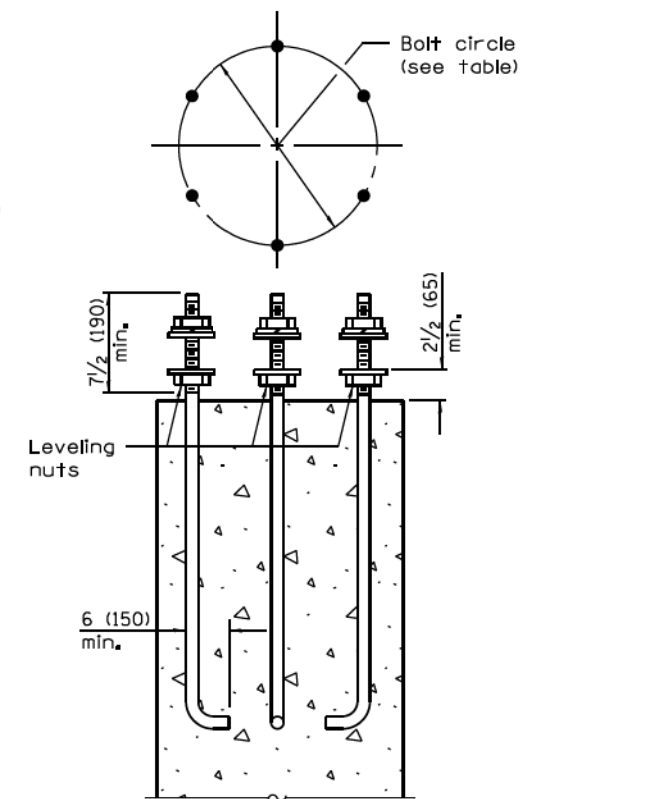
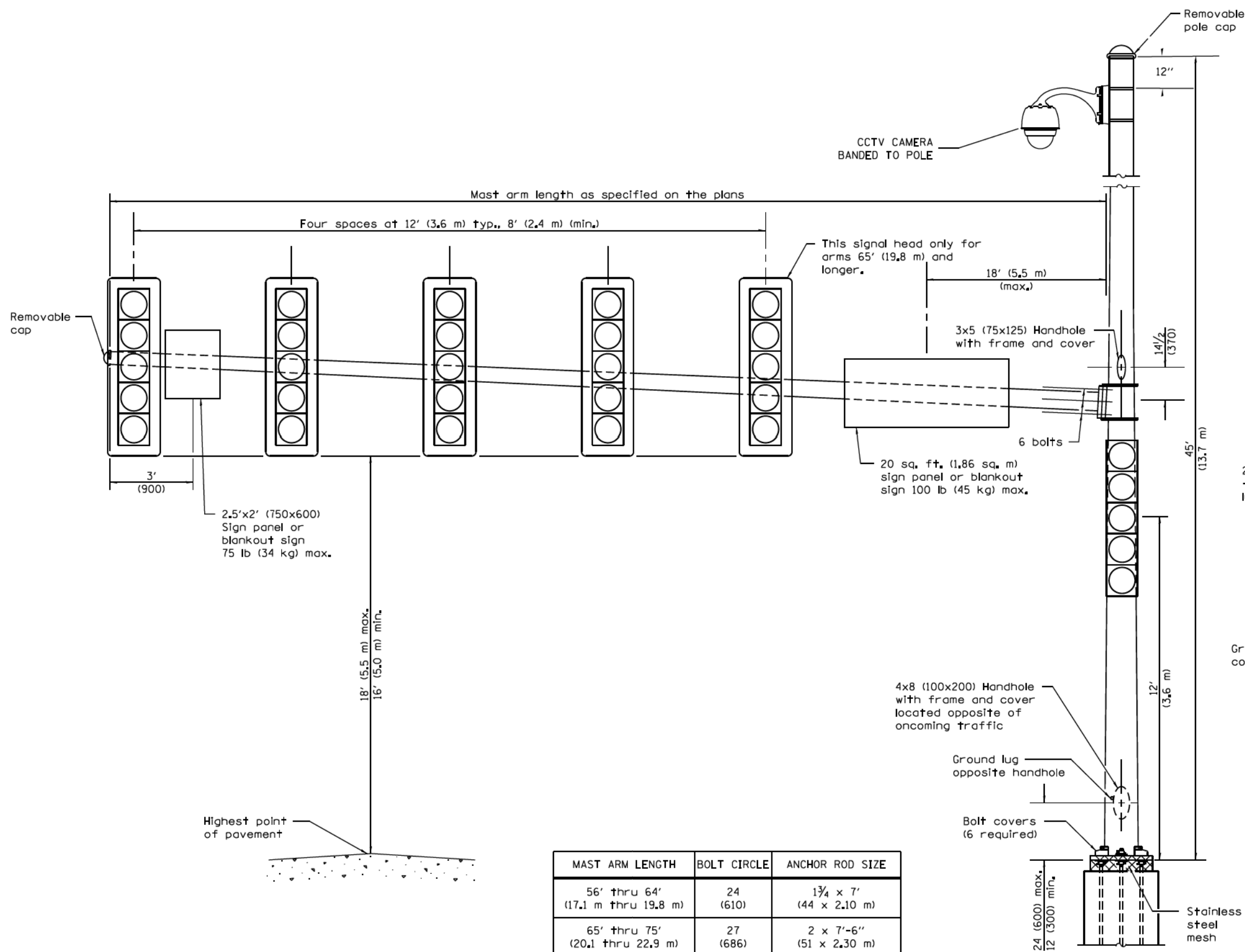
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**STEEL COMBINATION MAST ARM
CCTV ASSEMBLY AND POLE
16' THROUGH 55'**

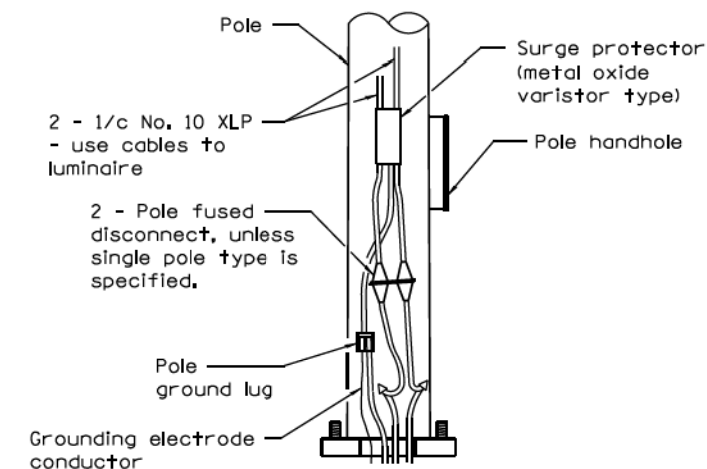
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	763
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

FOR CAMERA INSTALLATION ONLY



ANCHOR ROD DETAIL



POLE BASE DETAIL

GENERAL NOTES

Signal heads, sign panels, and other attachments are shown for minimum design loading purposes only. Each signal head shall weigh 80 lb (36 kg) and have a projected area of 14.7 sq. ft. (1.37 sq. m).

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

MAST ARM LENGTH	BOLT CIRCLE	ANCHOR ROD SIZE
56' thru 64' (17.1 m thru 19.8 m)	24 (610)	1 3/4 x 7' (44 x 2.10 m)
65' thru 75' (20.1 thru 22.9 m)	27 (686)	2 x 7'-6" (51 x 2.30 m)

FILE NAME = D:\60X10-eh-t-150051-CCTVComboMAG6-75.dgn

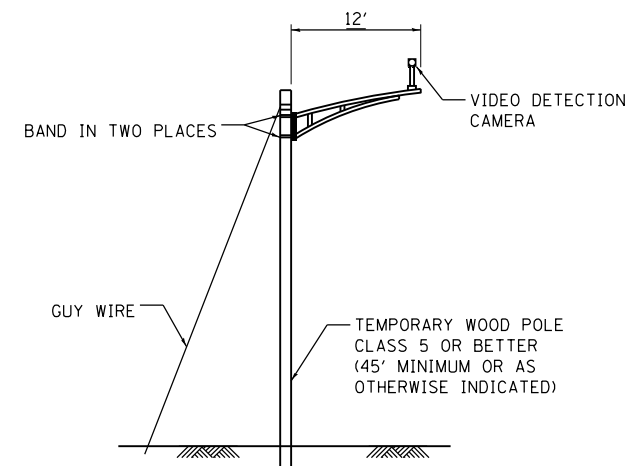
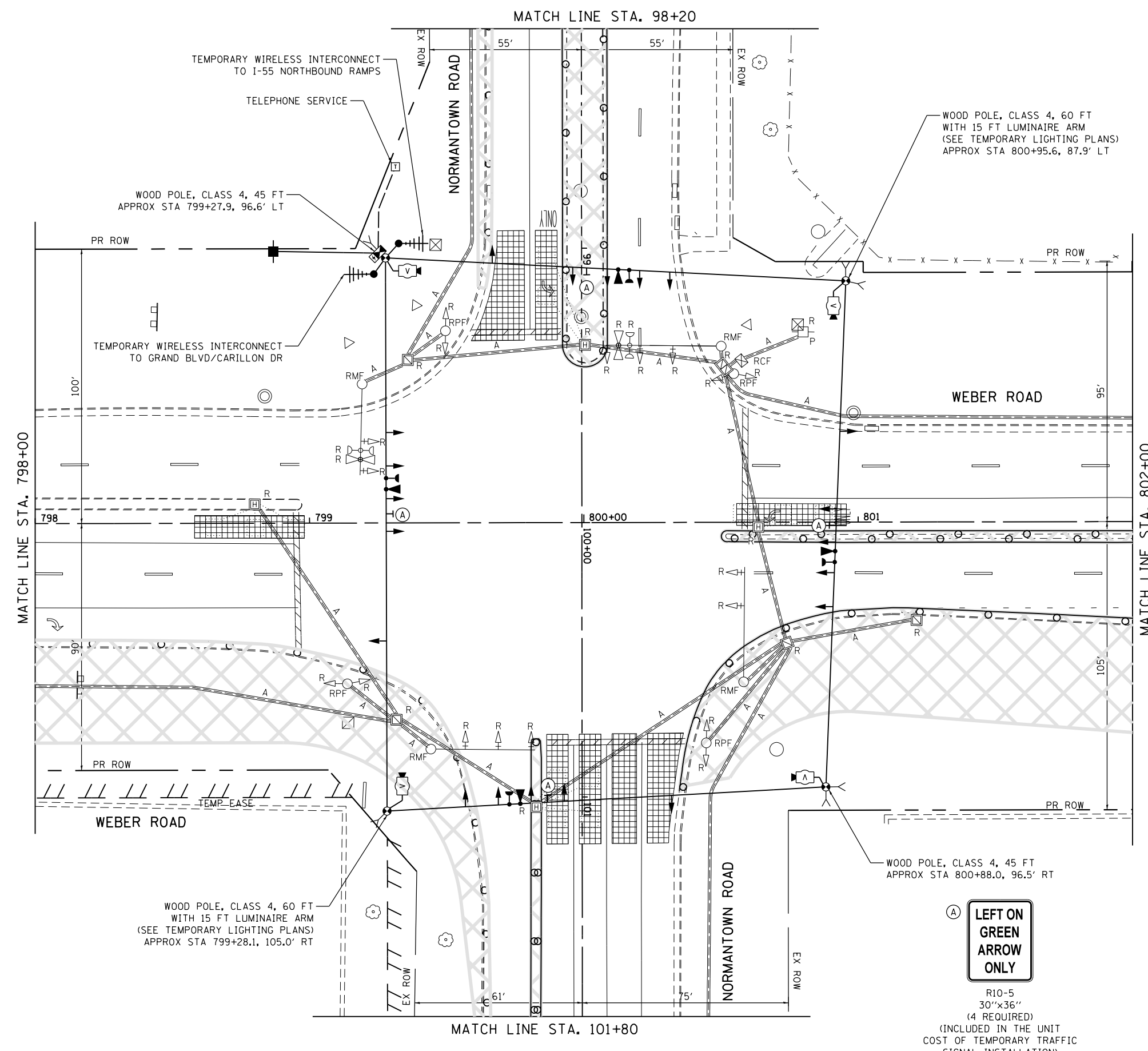
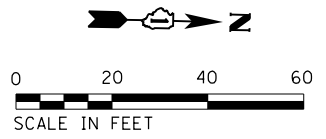
KNIGHT Engineers & Architects	USER NAME = grol	DESIGNED	REVISED -
	PLOT SCALE = 1:40	DRAWN	REVISED -
	PLOT DATE = 5/13/2017	CHECKED	REVISED -
		DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STEEL COMBINATION MAST ARM
CCTV ASSEMBLY AND POLE
56' THROUGH 75'**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	764
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X10	



TEMPORARY VIDEO DETECTION MOUNTING DETAIL

NOT TO SCALE

NOTE: EACH VIDEO CAMERA SHALL BE MOUNTED ON A 12' ALUMINUM MAST ARM OR WOOD POLE AS INDICATED ABOVE. THIS WORK WILL BE INCLUDED IN THE COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF ROMEOVILLE

- 2 EACH LIGHT DETECTOR AND BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 4 EACH LED MAST ARM MOUNTED STREET NAME SIGN

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 12 EACH SIGNAL HEAD, 3-SECTION
- 6 EACH SIGNAL HEAD, 5-SECTION
- 4 EACH STEEL MAST ARM AND POLE
- 4 EACH SIGNAL POST
- 10 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION

CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN FOUR D3-1 STREET NAME SIGNS ("Weber Road" (2), "Normantown Rd" (2)) PER IDOT DISTRICT 1 STANDARD TS-02 ON TEMPORARY TRAFFIC SIGNAL SPAN WIRES FOR THE DURATION OF THE CONTRACT. THIS WORK SHALL BE INCLUDED IN THE UNIT COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.



R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

FILE NAME = D:\60X10-eh-t-150100.dgn



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	DATE 06/16/17	REVISED -

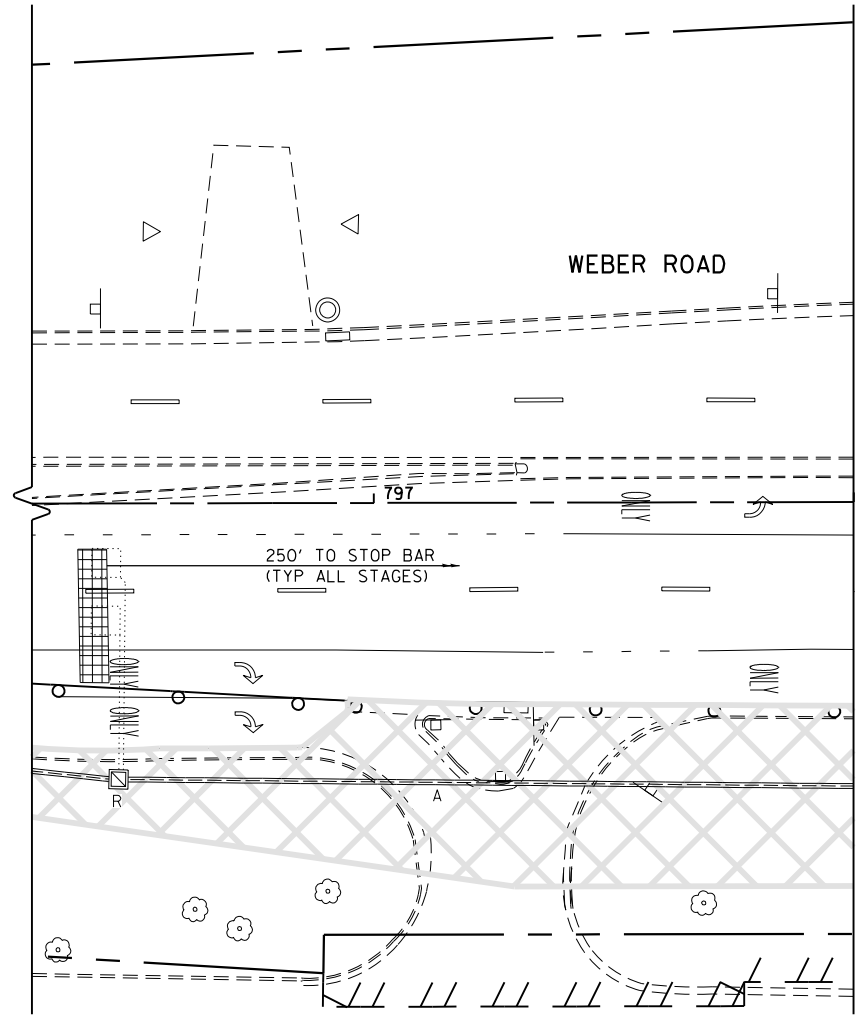
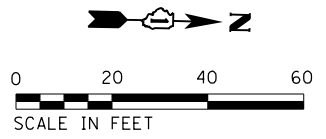
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PRE-STAGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
WEBER ROAD AND NORMANTOWN ROAD**

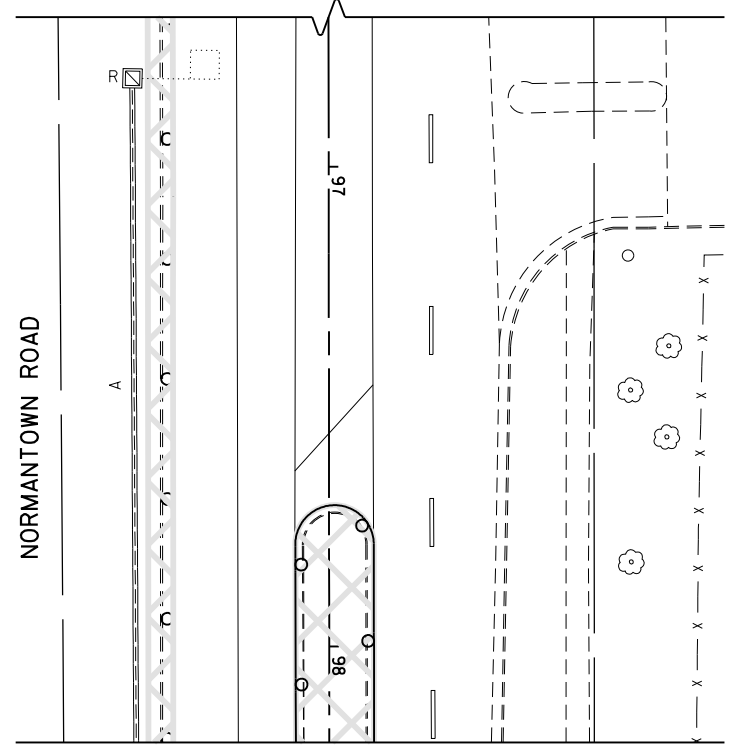
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F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

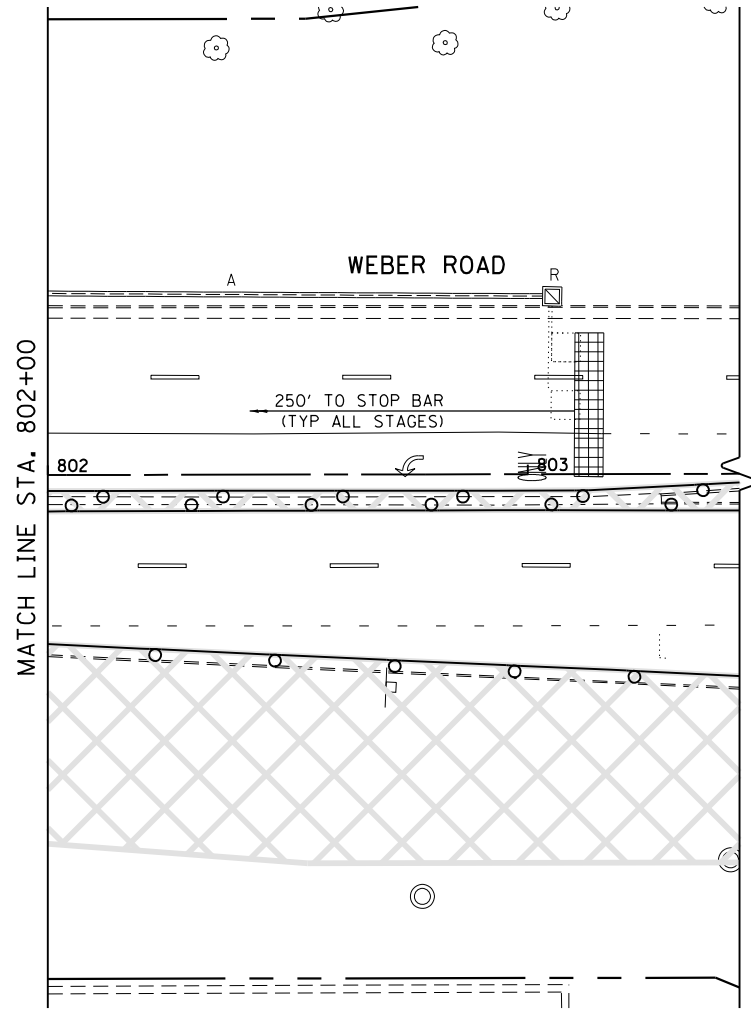
TS 7350
ECON 132



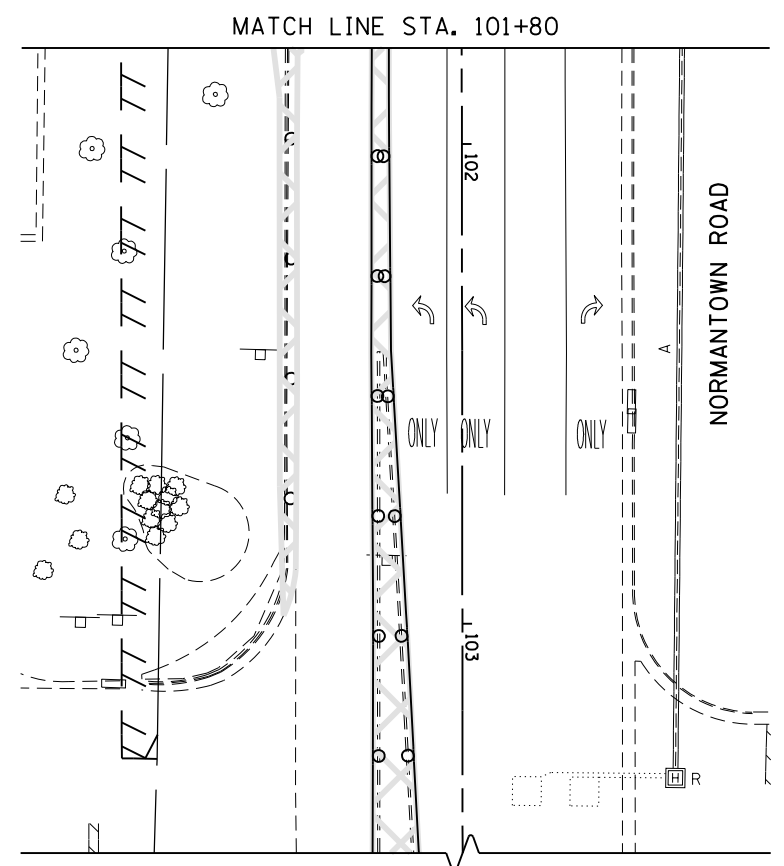
MATCH LINE STA. 798+00



MATCH LINE STA. 98+20



MATCH LINE STA. 802+00



MATCH LINE STA. 101+80

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KNIGHT
Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
	DRAWN GR	REVISED -
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PLOT DATE = 5/13/2017	DATE 05/12/17	REVISED -

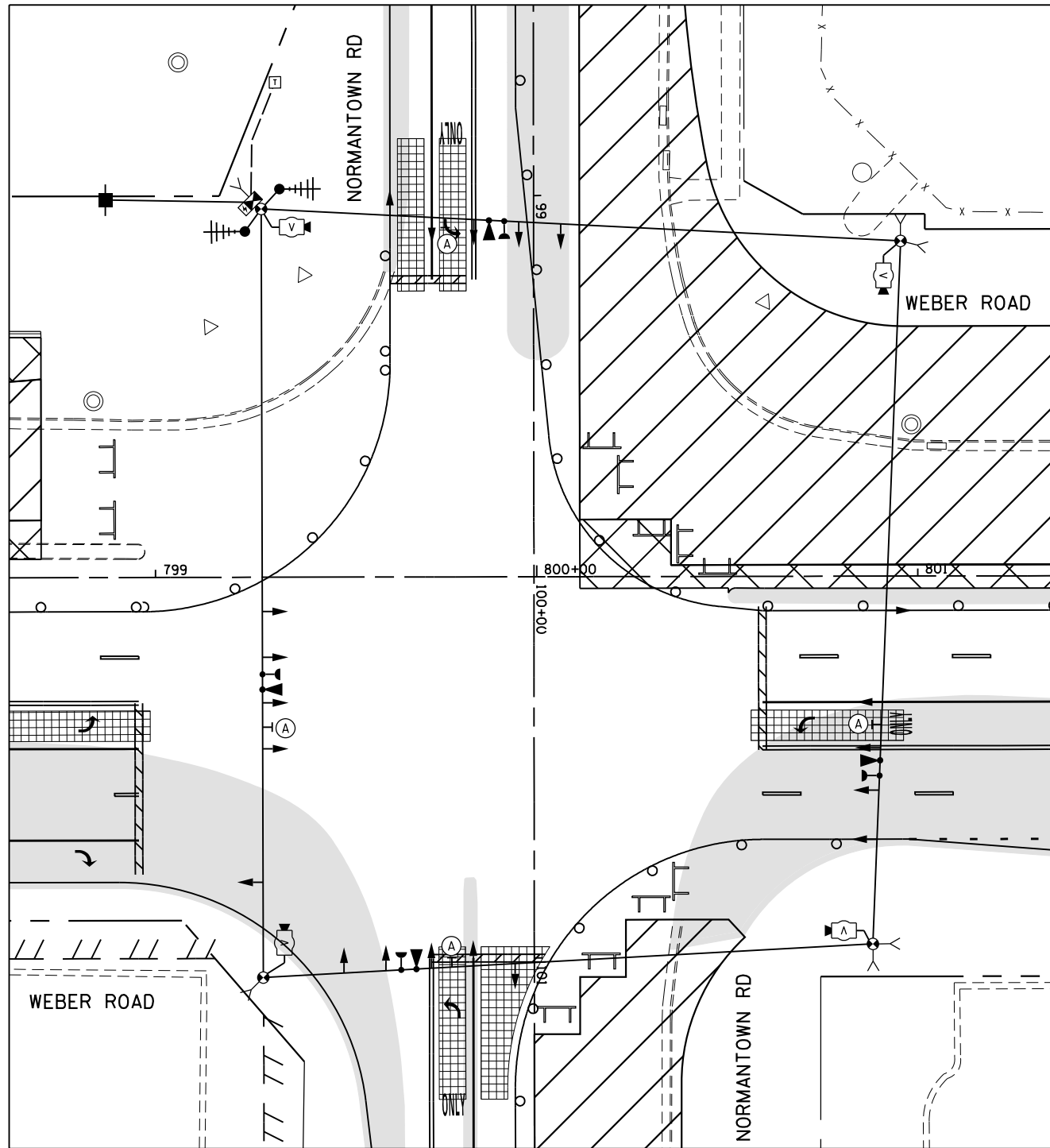
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL STAGES
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
WEBER ROAD AND NORMANTOWN ROAD

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-14B-1) R-1	WILL	1508	766
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

TS 7350
ECON 132

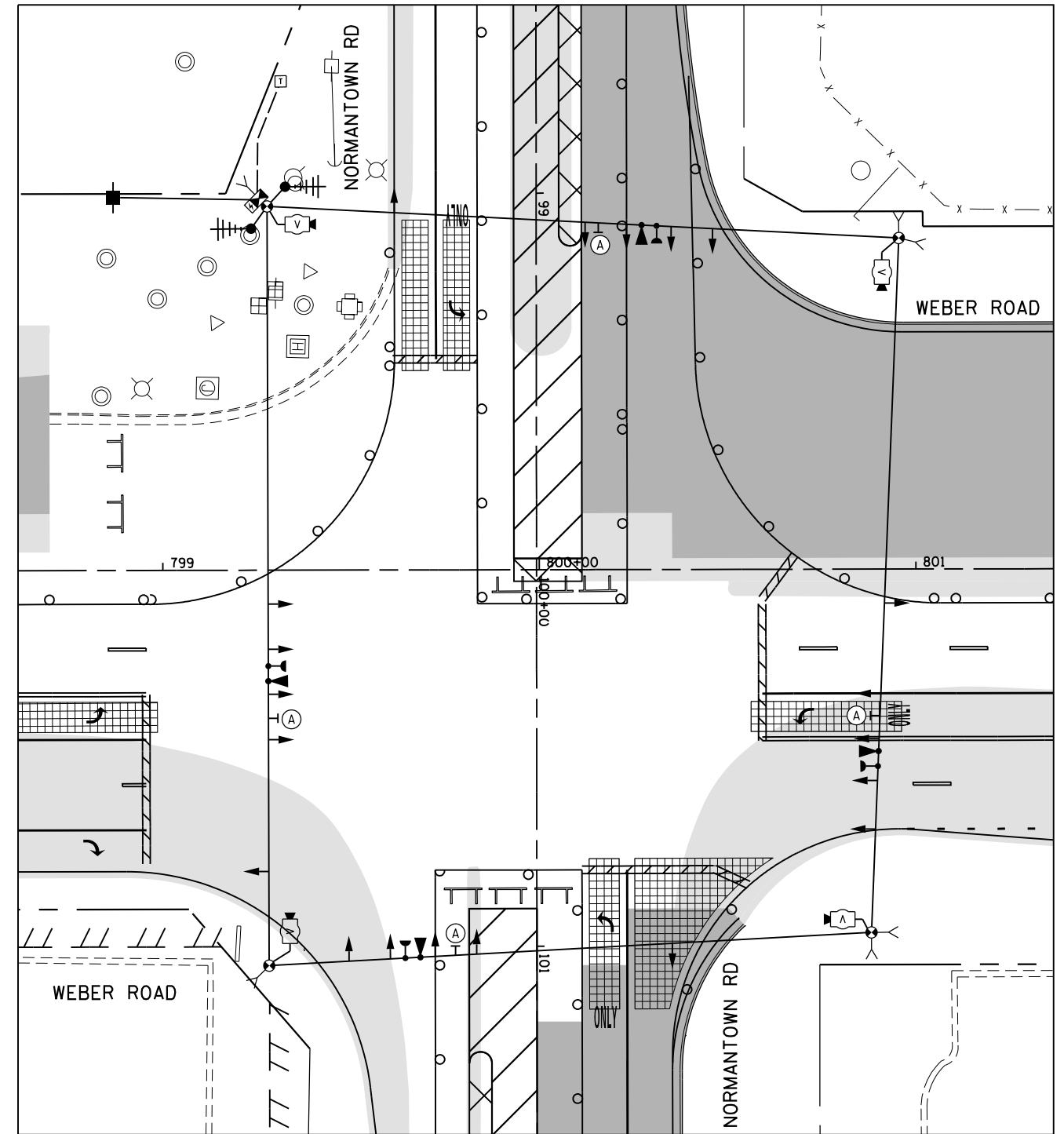
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.



STAGE 1



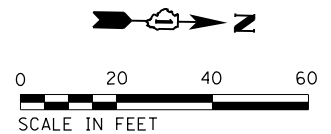
R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 1A



R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 1 AND 1A

**TS 7350
ECON 132**

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KNIGHT
Engineers & Architects

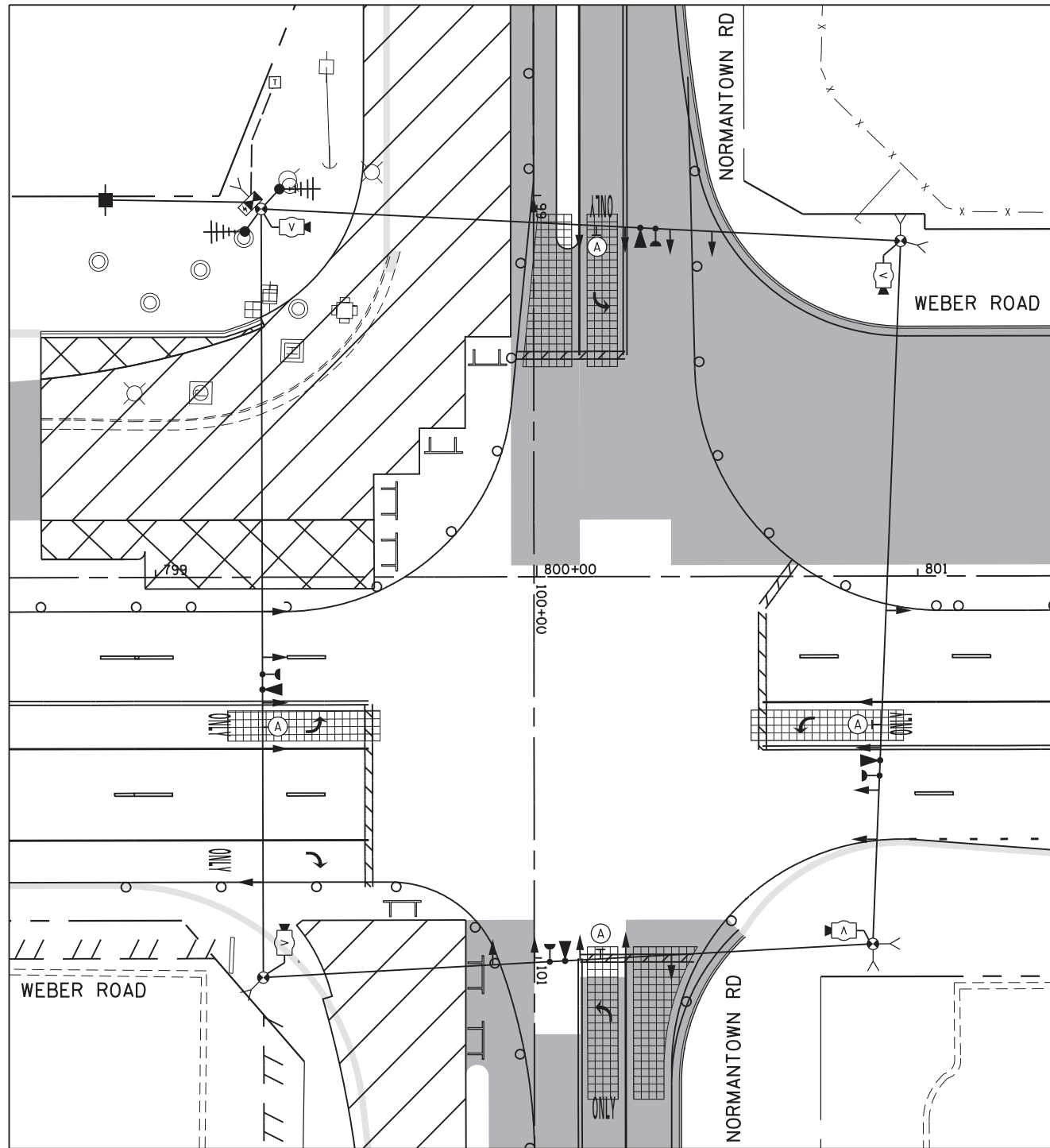
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PLOT DATE = 5/13/2017	CHECKED MJM	REVISED -
	DATE 05/12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND NORMANTOWN ROAD**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

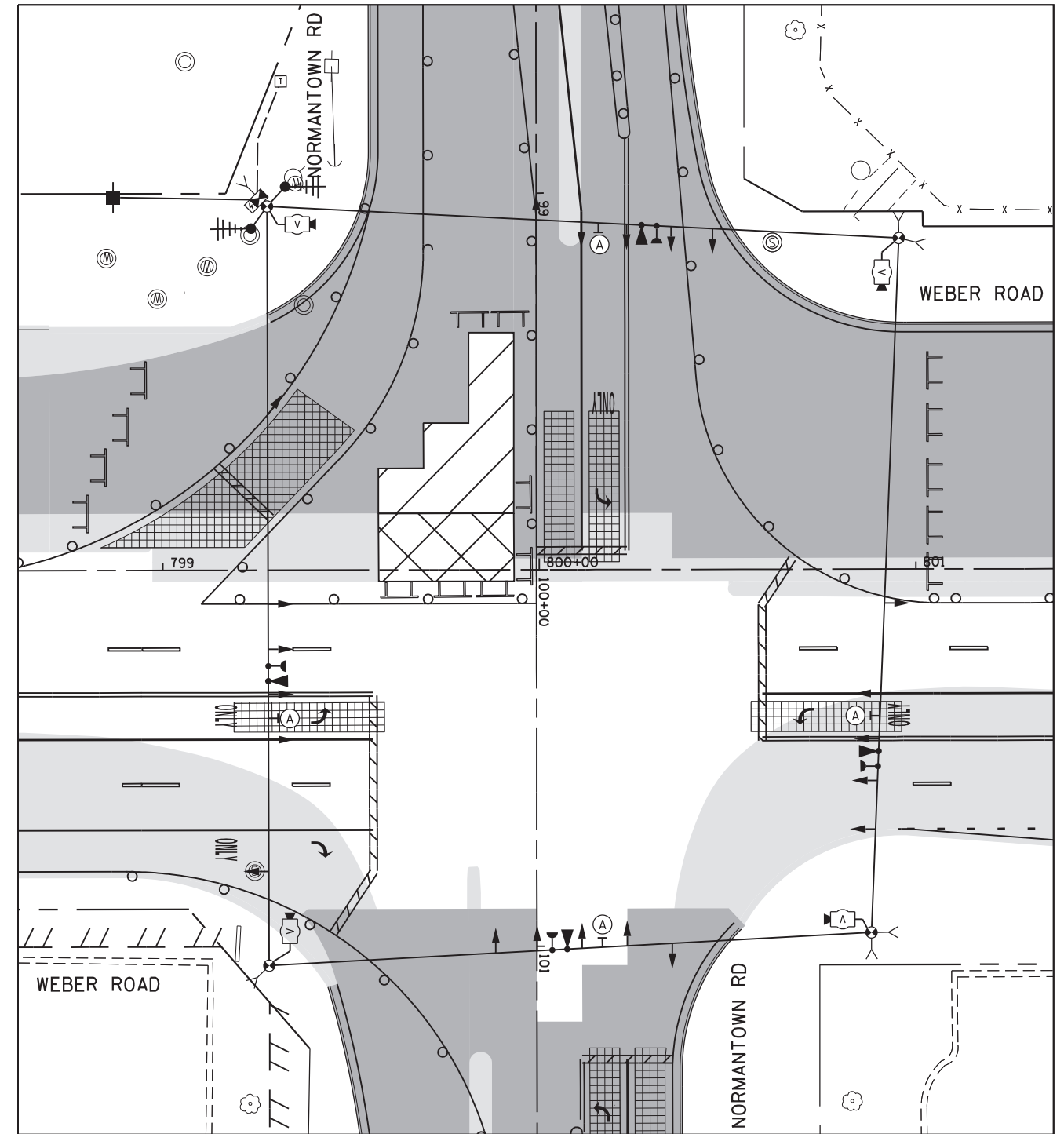
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*	(99-1HB-1) R-1	WILL	1508	767
CONTRACT NO. 60X10				
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				



STAGE 1B

(A) LEFT ON GREEN ARROW ONLY

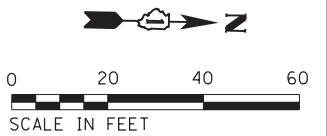
R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 1C AND 1D

(A) LEFT ON GREEN ARROW ONLY

R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 1B, 1C AND 1D

TS 7350

ECON 132

FILE NAME = D:\60X10-eh-t-150103.dgn

KNIGHT
Engineers & Architects

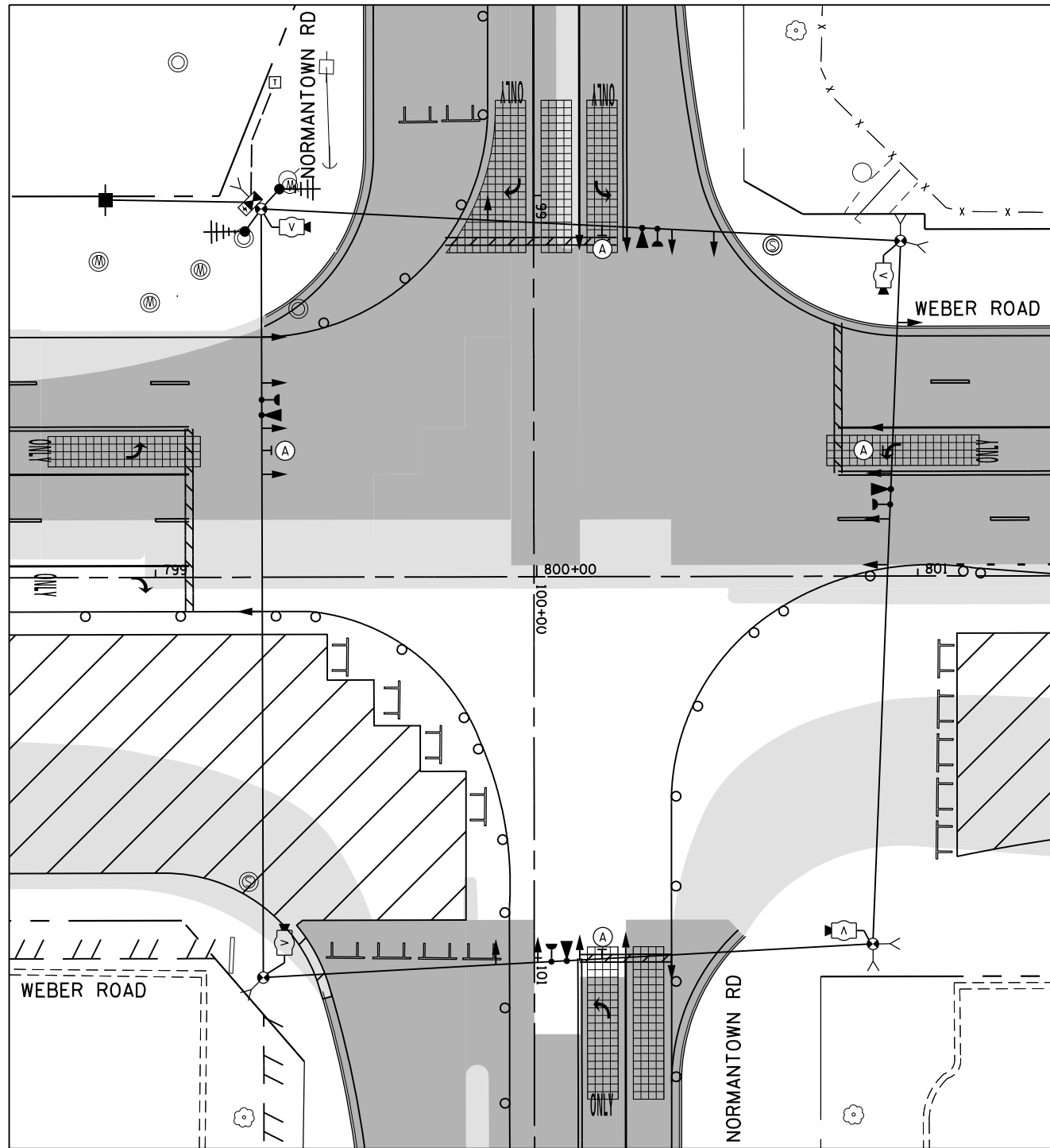
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PLOT SCALE = 1:40	CHECKED MJM	REVISED -
PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND NORMANTOWN ROAD

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

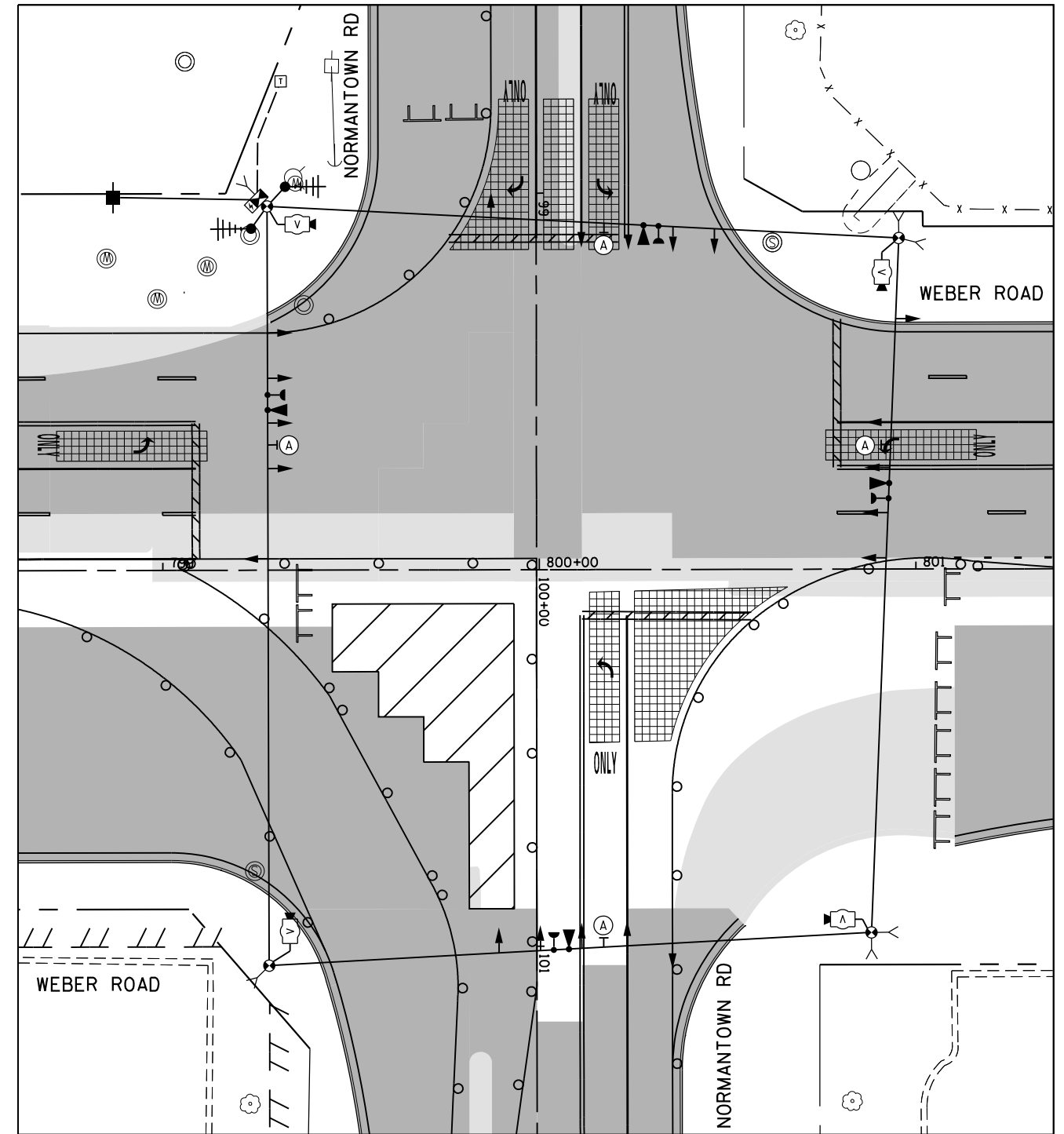
F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	768
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



STAGE 2



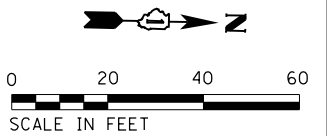
R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 2A



R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 2 AND 2A

TS 7350

ECON 132

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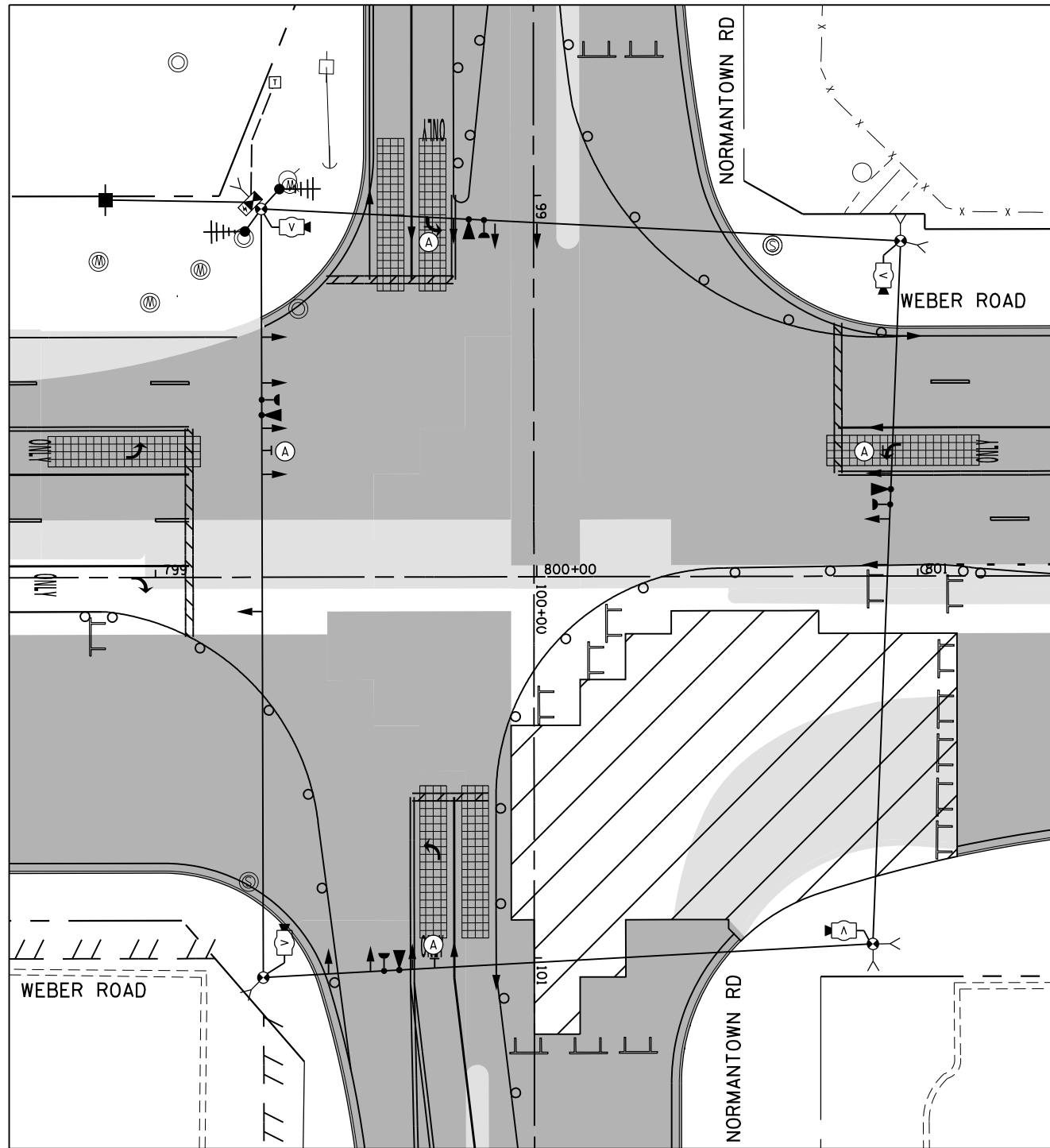
KNIGHT
Engineers & Architects

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	DATE 05/12/17	REVISED -

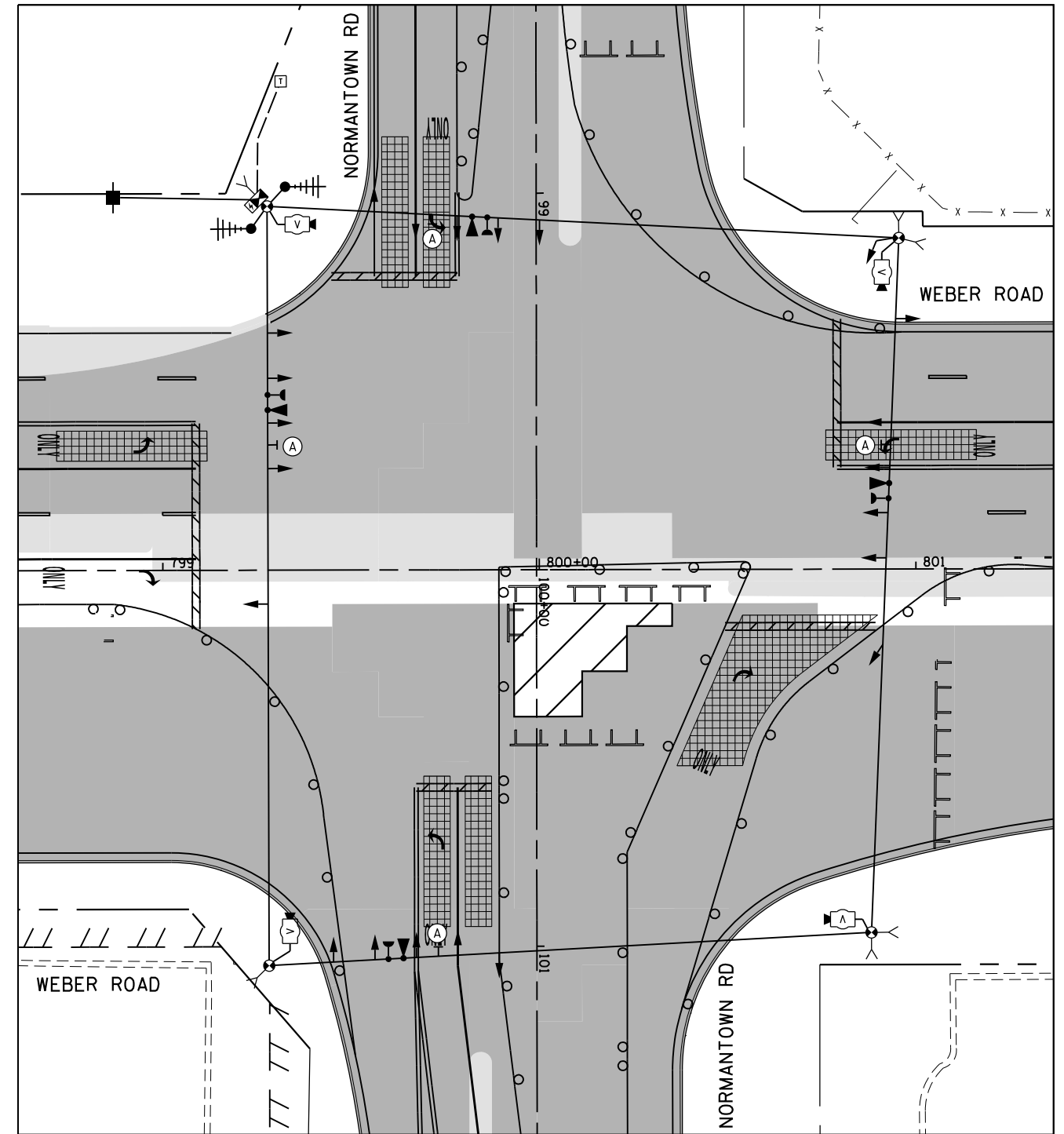
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND NORMANTOWN ROAD			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	769
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



STAGE 2B



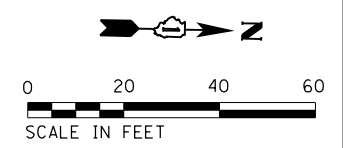
STAGE 2C

(A) LEFT ON GREEN ARROW ONLY

R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)

(A) LEFT ON GREEN ARROW ONLY

R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 2B AND 2C

TS 7350
ECON 132

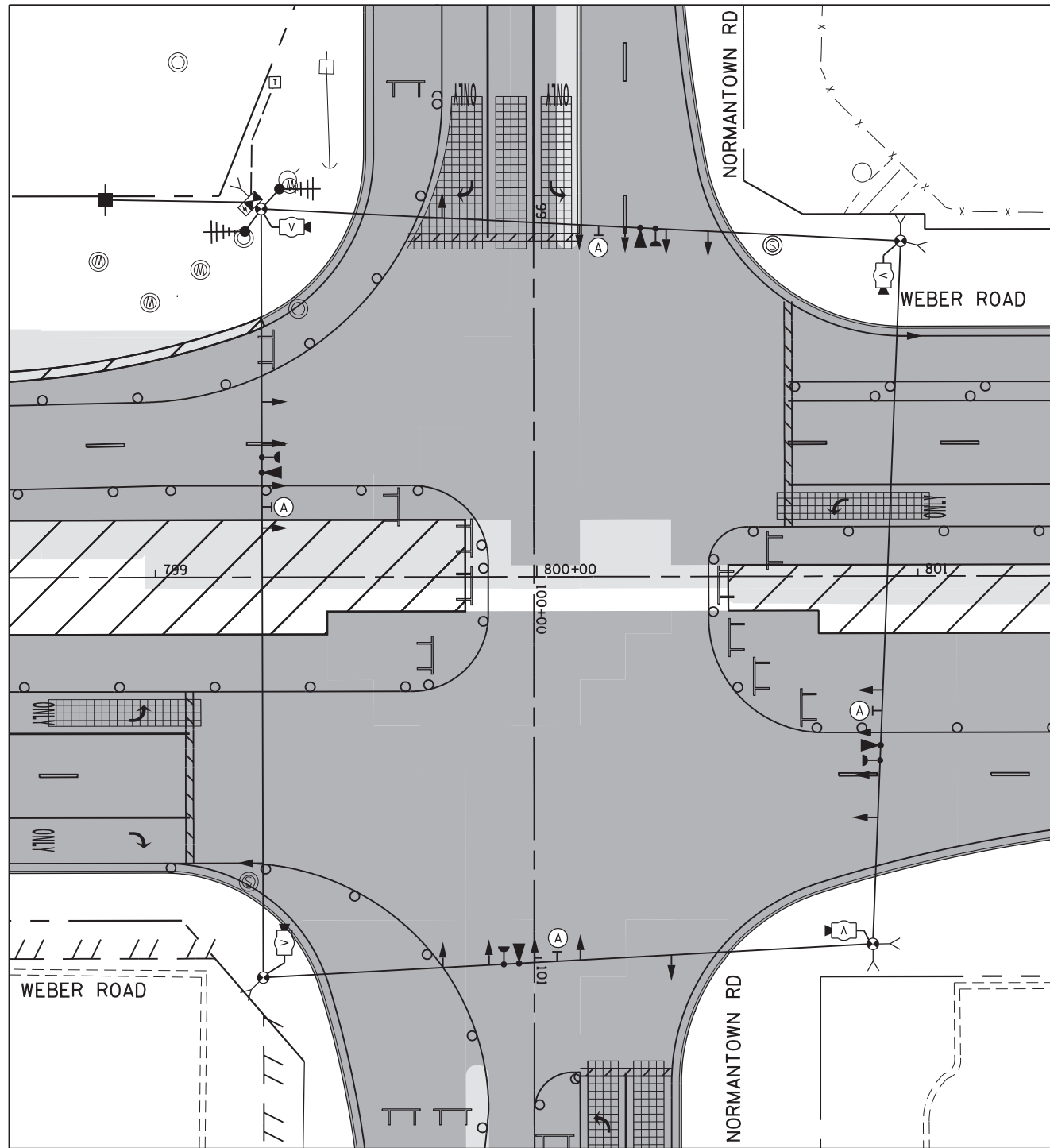
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		DATE 05/12/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND NORMANTOWN ROAD			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

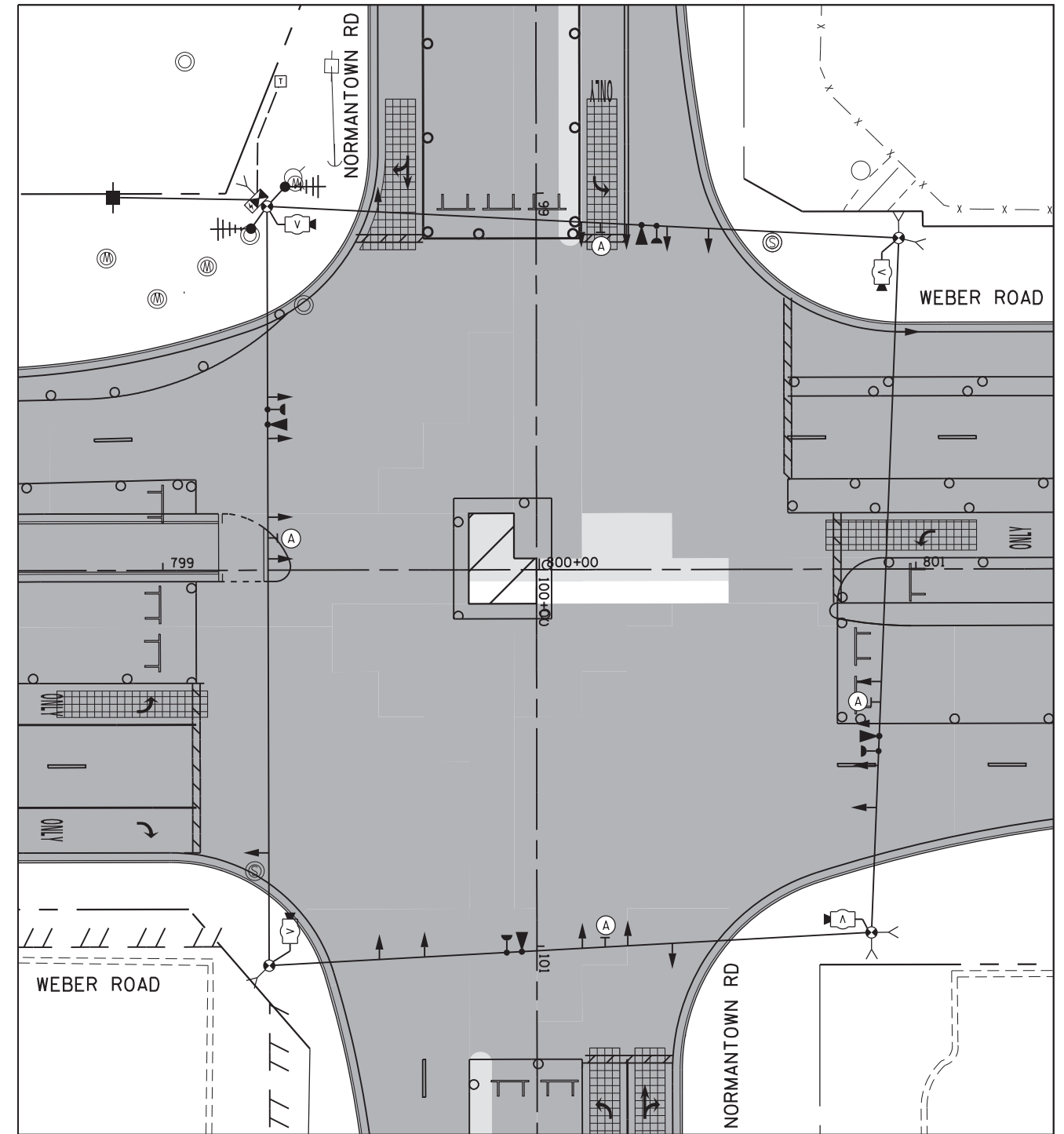
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*	(99-1HB-1) R-1	WILL	1508	770
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



STAGE 3

(A) LEFT ON GREEN ARROW ONLY

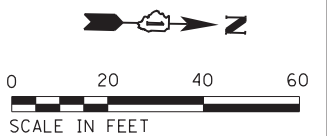
R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 3A

(A) LEFT ON GREEN ARROW ONLY

R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 3 AND 3A

TS 7350
ECON 132

FILE NAME = D:\60X10-eh-t-150106.dgn

KNIGHT
Engineers & Architects

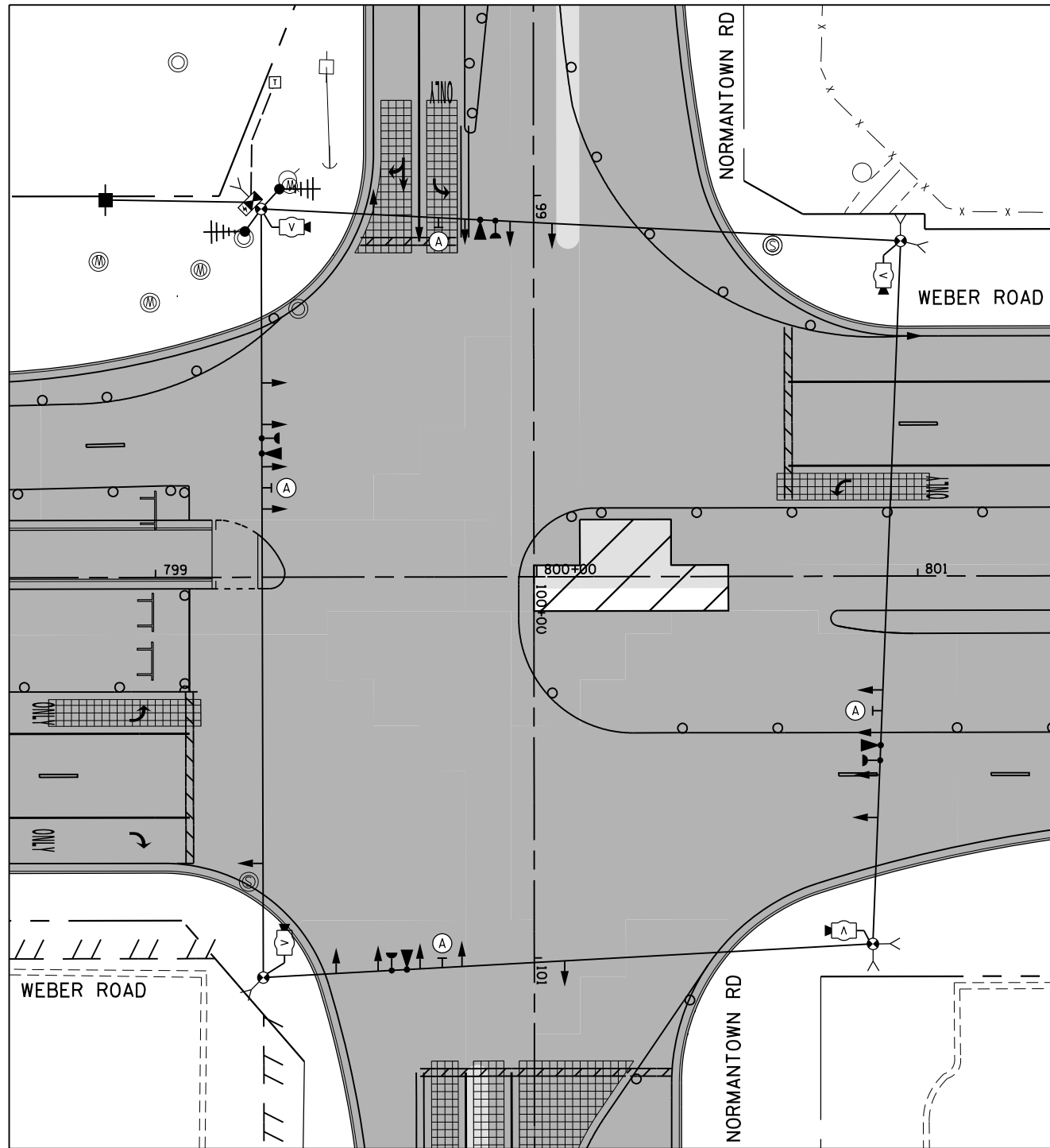
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PLOT SCALE = 1:40	DRAWN GR	REVISED -
PLOT DATE = 6/8/2017	CHECKED MJM	REVISED -
	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND NORMANTOWN ROAD

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

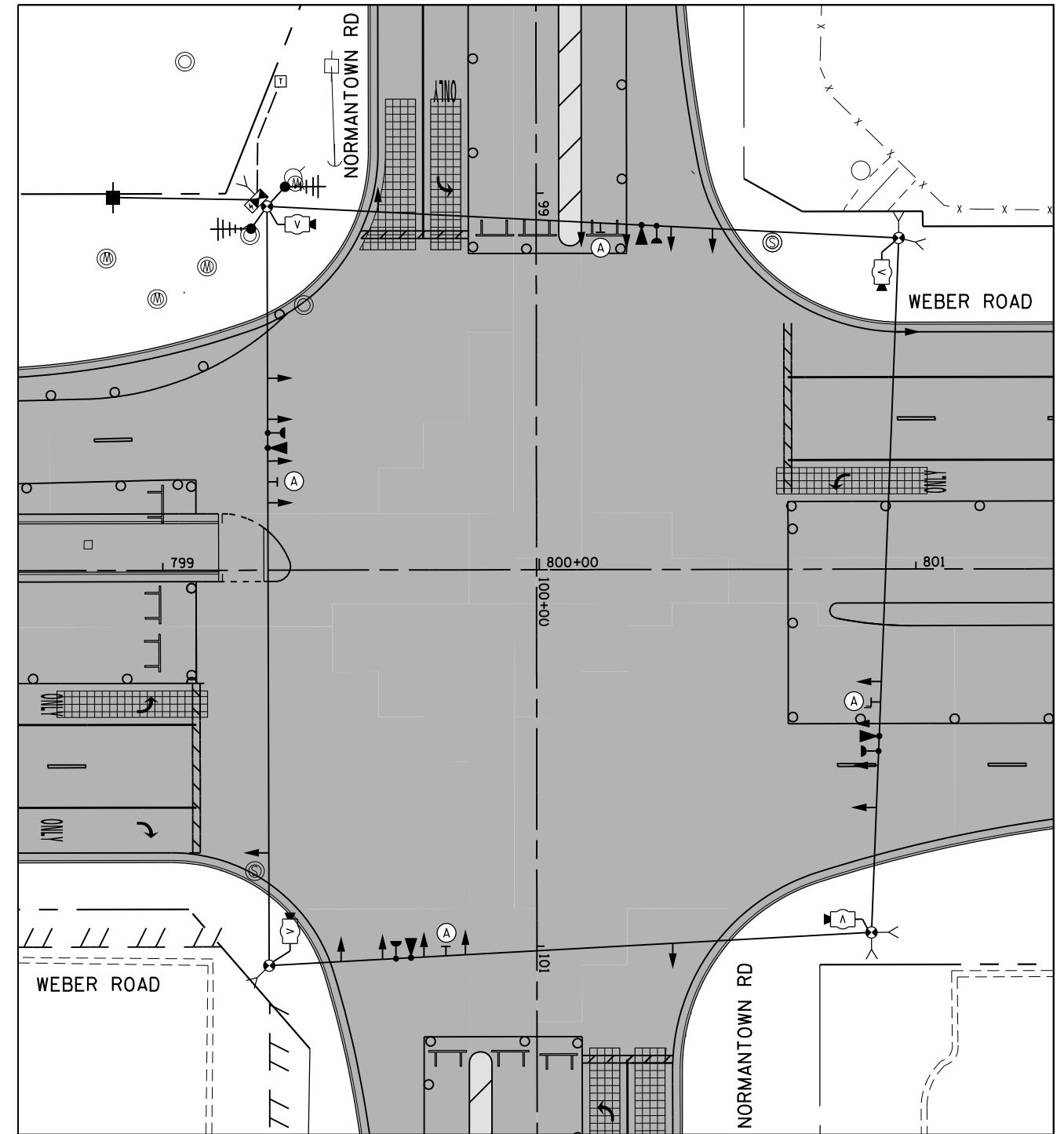
F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	771
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



STAGE 3B

(A) LEFT ON GREEN ARROW ONLY

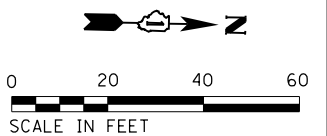
R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 3C

(A) LEFT ON GREEN ARROW ONLY

R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)



STAGE 3B AND 3C

**TS 7350
ECON 132**

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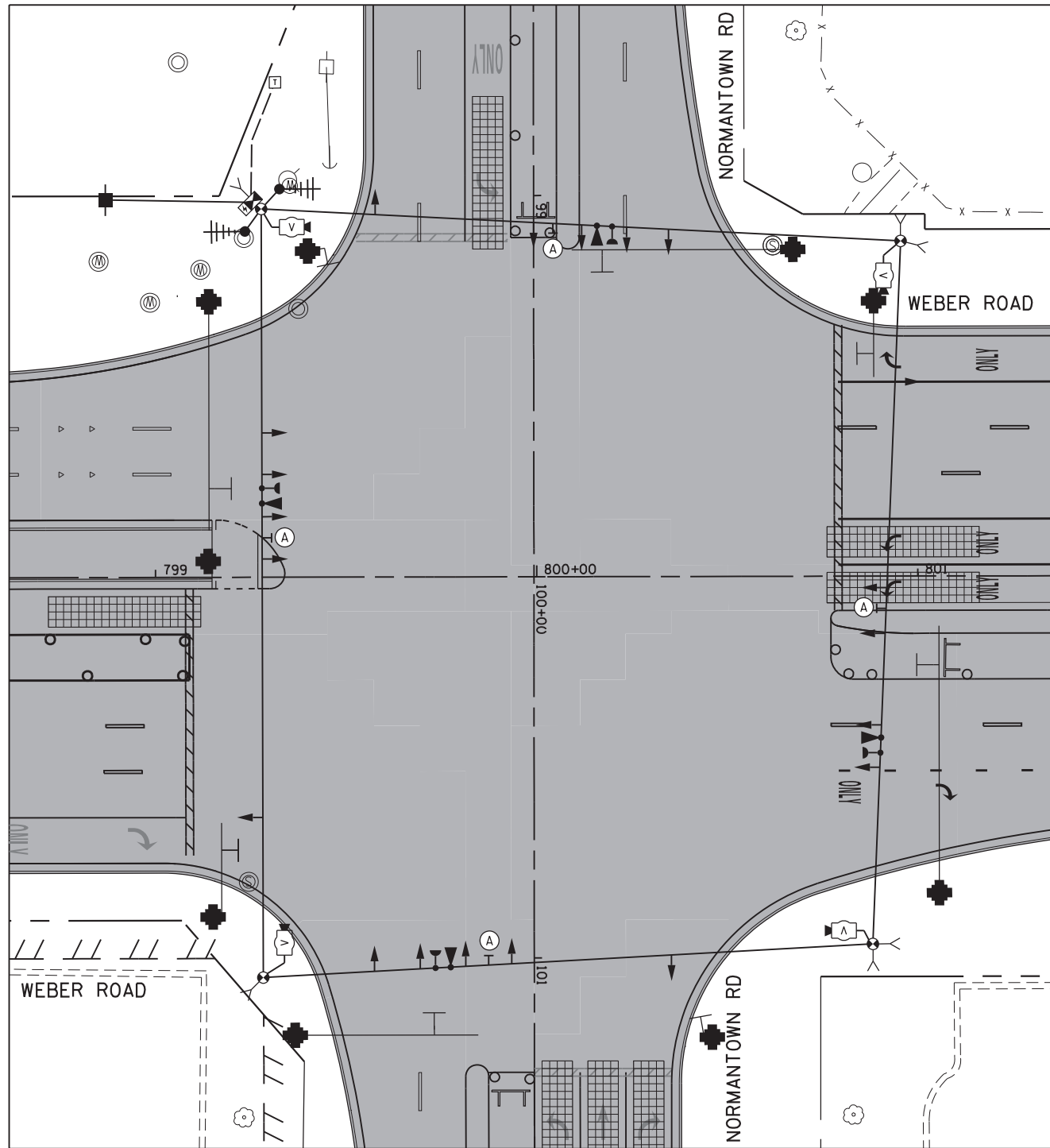
KNIGHT
Engineers & Architects

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PLOT SCALE = 1:40	CHECKED MJM	REVISED -
PLOT DATE = 5/13/2017	DATE 05/12/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND NORMANTOWN ROAD			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	772
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



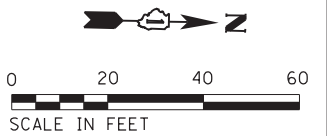
STAGE 4

(A) LEFT ON GREEN ARROW ONLY

R10-5
30"x36"
(4 REQUIRED)
(INCLUDED IN THE UNIT
COST OF TEMPORARY TRAFFIC
SIGNAL INSTALLATION)

NOTES:

PERMANENT TRAFFIC SIGNAL AT THIS INTERSECTION AND PERMANENT INTERCONNECT ALONG WEBER ROAD SHALL BE TESTED IN STAGE 4 AND READY FOR ACTIVATION PRIOR TO STAGE 4A. IN STAGE 4A AND 4B, WHEN THE DDI TRAFFIC CONFIGURATION IS IN EFFECT, INTERSECTIONS AT NORMANTOWN, RAMPS C/B, RAMPS D/A, REMINGTON/WINDHAM AND RODEO/REMINGTON SHALL OPERATE WITH THE PERMANENT TRAFFIC SIGNALS AND INTERCONNECT.



FILE NAME = D:\60X10-eh-t-150108.dgn

KNIGHT
Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
	DRAWN GR	REVISED -
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PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

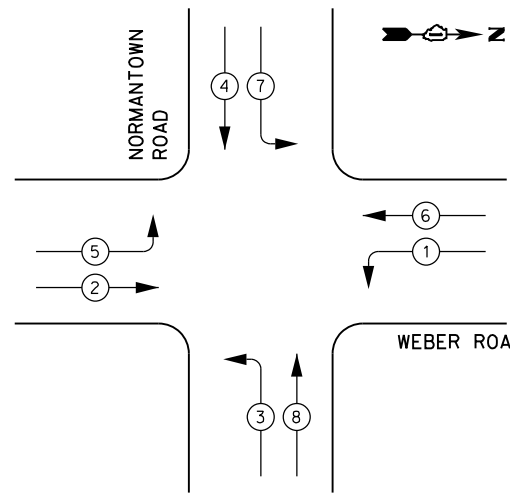
STAGE 4

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND NORMANTOWN ROAD			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	773
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

TS 7350

TEMPORARY CONTROLLER SEQUENCE

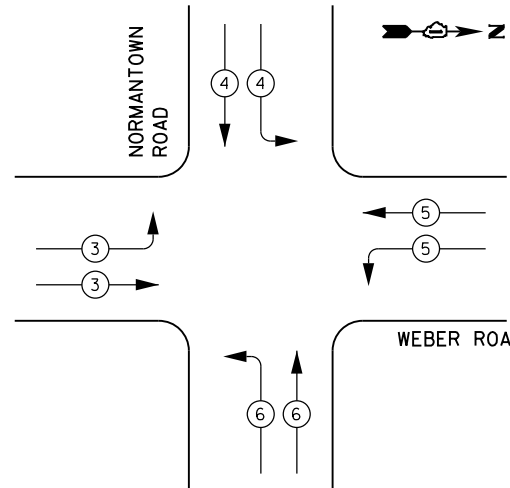


- LEGEND:**
- ← * → PROTECTED PHASE
 - ← * - PROTECTED/PERMITTED PHASE
 - ← * → PEDESTRIAN PHASE
 - ← * OL → OVERLAP

PHASING NOTES FOR STAGES 1A, 1C, 1D, 2A, 2C, 3, 3A, 3B AND 3C:

PROVIDE LEAD-LAG PHASING FOR LEFT TURN MOVEMENTS TO ENSURE THAT OPPOSING LEFT TURNS DO NOT OCCUR SIMULTANEOUSLY.

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	23	11	50	126.5
(YELLOW)	23	20	5	23.0
(GREEN)	23	12	45	124.2
PERMISSIVE ARROW	-	10	10	--
PED. SIGNAL	-	20	100	--
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	-	120	50	--
LUMINAIRE	-	285	50	--
TOTAL =				548.7

ENERGY COSTS TO:

VILLAGE OF ROMEOVILLE
1050 W ROMEO ROAD
ROMEOVILLE, ILLINOIS 60446

ENERGY SUPPLY: CONTACT: JOE LEPE
PHONE: (815) 724-5569
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

FILE NAME = D:\60X10\eh\159021.dgn

KNIGHT
Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
PLOT SCALE = 1:40	DRAWN GR	REVISED -
PLOT DATE = 6/29/2017	CHECKED MJM	REVISED -
	DATE 08/04/17	REVISED -

DESIGNED GR	REVISED -
DRAWN GR	REVISED -
CHECKED MJM	REVISED -
DATE 08/04/17	REVISED -

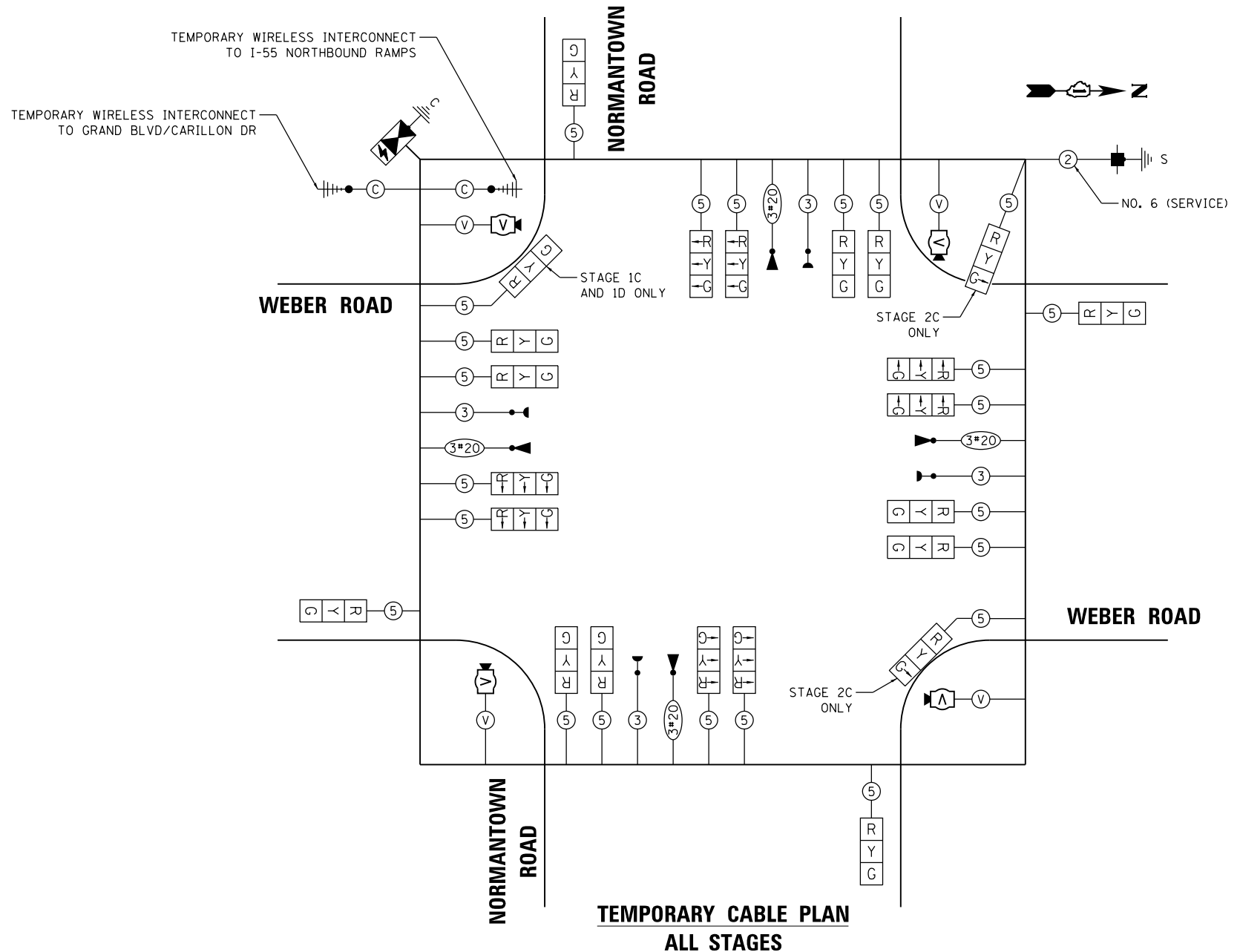
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL STAGES
**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
WEBER ROAD AND NORMANTOWN ROAD**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

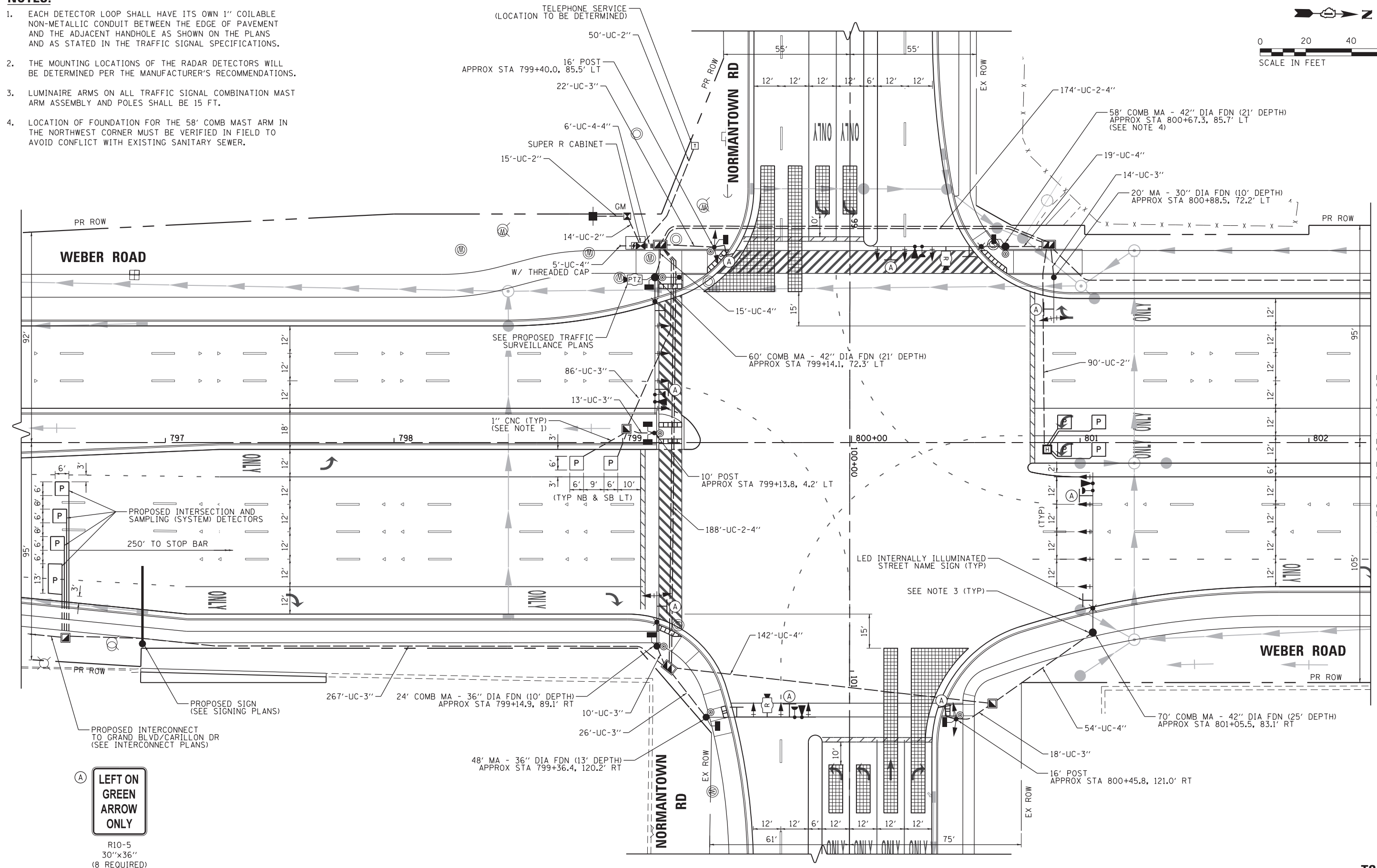
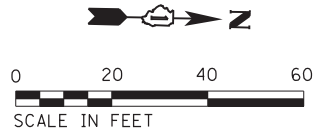
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	774
			CONTRACT NO. 60X10	
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				

TS 7350
ECON 132



NOTES:

1. 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 AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
3. LUMINAIRE ARMS ON ALL TRAFFIC SIGNAL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL BE 15 FT.
4. LOCATION OF FOUNDATION FOR THE 58' COMB MAST ARM IN THE NORTHWEST CORNER MUST BE VERIFIED IN FIELD TO AVOID CONFLICT WITH EXISTING SANITARY SEWER.



R10-5
30"x36"
(8 REQUIRED)

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	DATE 06/16/17	REVISED -

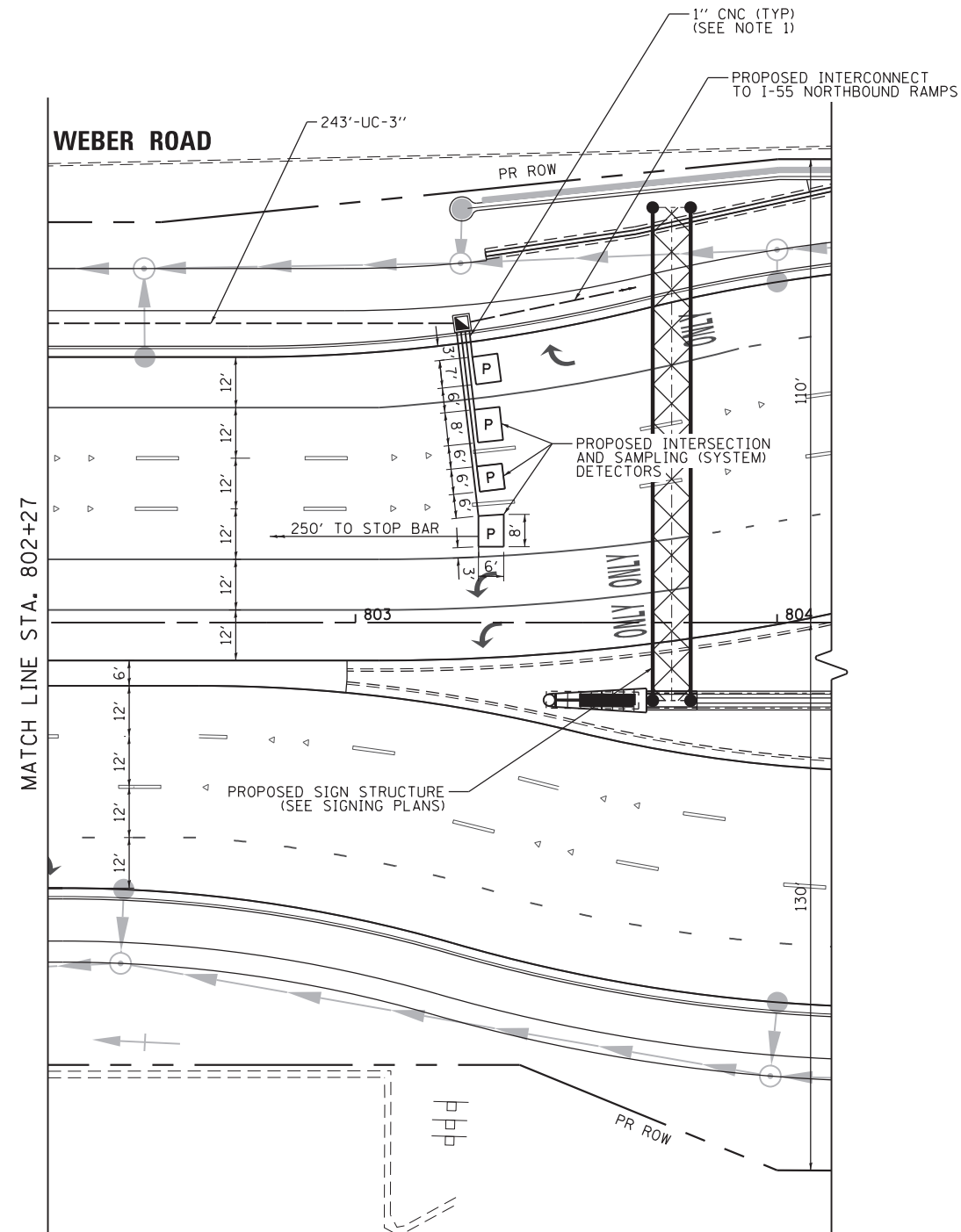
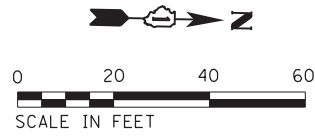
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
WEBER ROAD AND NORMANTOWN ROAD**

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	775
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

**TS 7350
ECON 132**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.



NOTES:

1. 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 AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

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KNIGHT
Engineers & Architects

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PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

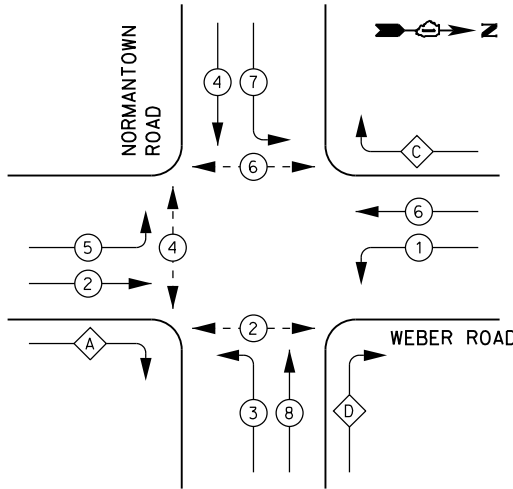
**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
WEBER ROAD AND NORMANTOWN ROAD**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	776
CONTRACT NO. 60X10			* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT	

**TS 7350
ECON 132**

PROPOSED CONTROLLER SEQUENCE



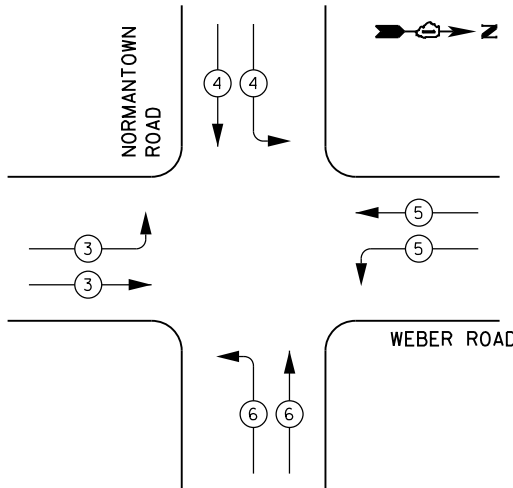
LEGEND:

- ← * → PROTECTED PHASE
- ← * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

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. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	23	11	50	126.5
(YELLOW)	23	20	5	23.0
(GREEN)	23	12	45	124.2
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	2	100	100	200.0
UPS	1	25	100	25.0
PTZ VIDEO SYSTEM	1	115	100	115.0
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	5	285	50	712.5
TOTAL =				1738.2

ENERGY COSTS TO:

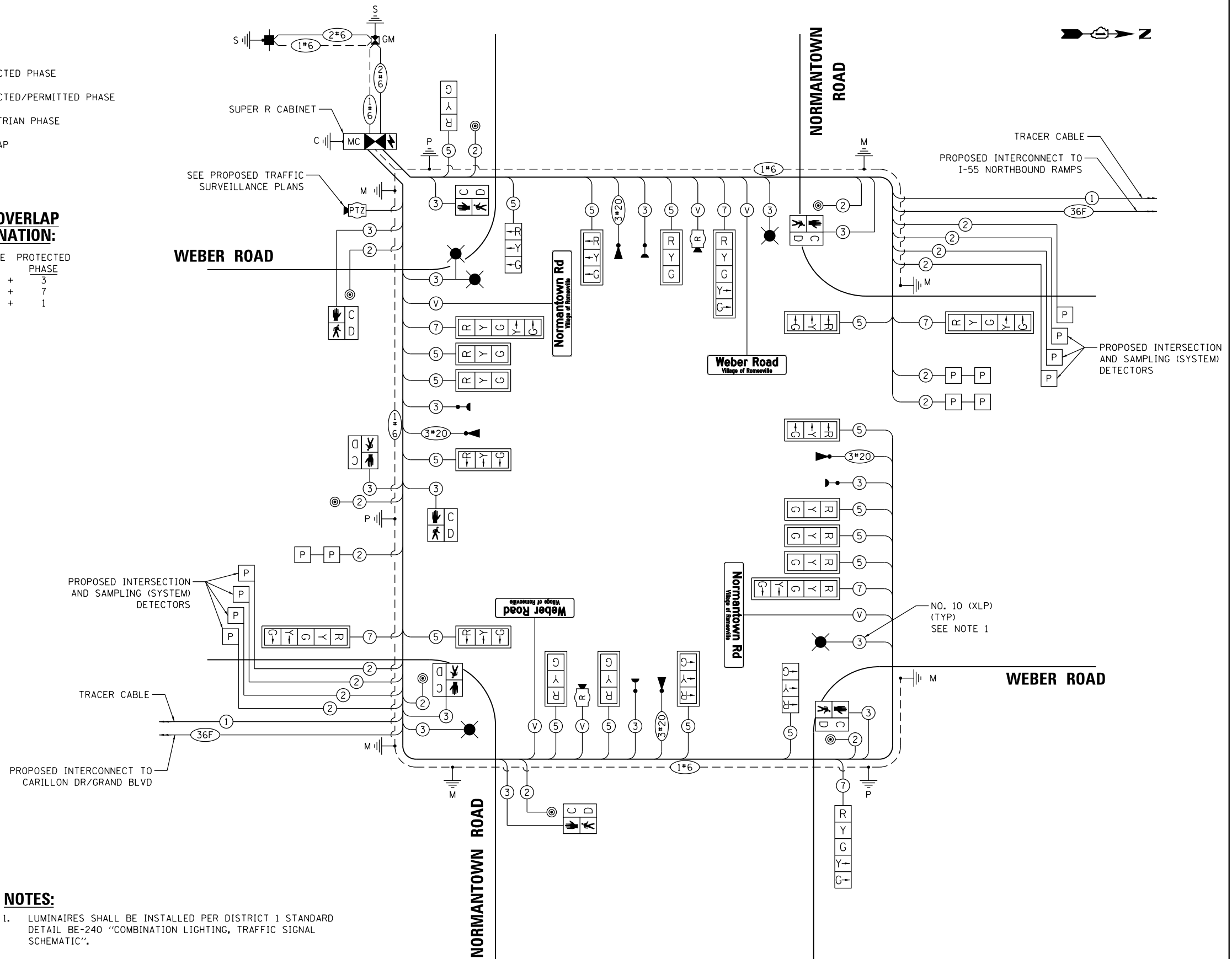
VILLAGE OF ROMEOVILLE
1050 W ROMEO ROAD
ROMEOVILLE, ILLINOIS 60446

ENERGY SUPPLY: CONTACT: JOE LEPE
PHONE: (815) 724-5569
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 197-11-36063

KNIGHT
Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
PLOT SCALE = 1:40	DRAWN GR	REVISED -
PLOT DATE = 6/29/2017	CHECKED MJM	REVISED -
	DATE 08/04/17	REVISED -

WEBER ROAD



CABLE PLAN
(NOT TO SCALE)

NOTES:

- LUMINAIRES SHALL BE INSTALLED PER DISTRICT 1 STANDARD DETAIL BE-240 "COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC".

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
WEBER ROAD AND NORMANTOWN ROAD

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

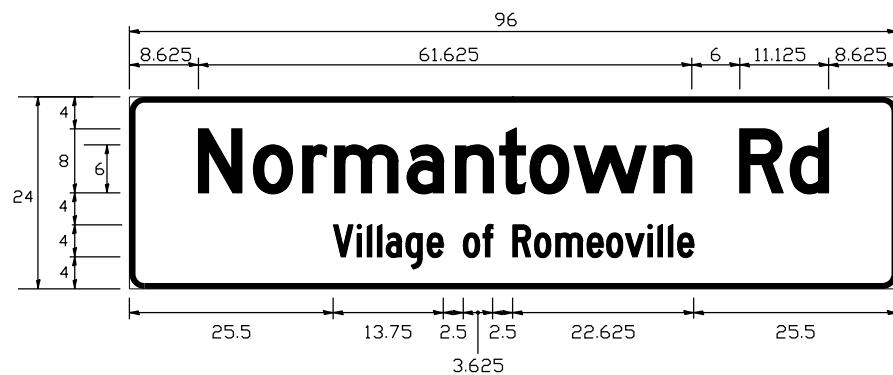
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	777
CONTRACT NO. 60X10				
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				

TS 7350
ECON 132

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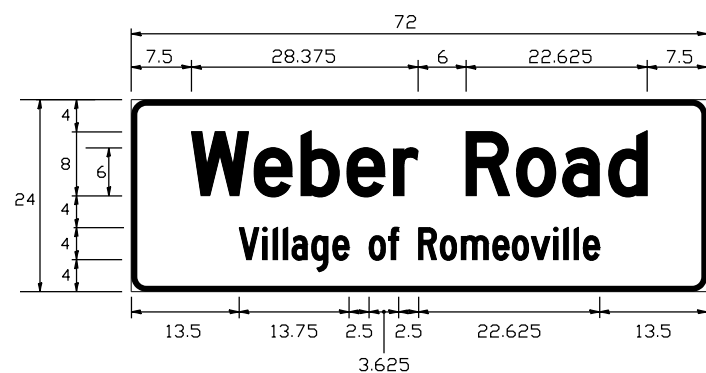
LED INTERNALLY ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	INTERSECTION QTY. REQUIRED
TOP LINE - D BOT. LINE - C	16.0	LED ILLUMINATED	N/A	2

SIGNS SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	INTERSECTION QTY. REQUIRED
TOP LINE - D BOT. LINE - C	12.0	LED ILLUMINATED	N/A	2

SIGNS SHALL BE DOUBLE-SIDED

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

* 100% COST TO THE VILLAGE OF ROMEOVILLE

SCHEDULE OF QUANTITIES

PAY ITEM NAME	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	60
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	169
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	699
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	983
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	3
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,396
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,834
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,961
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,788
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,562
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	60
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,200
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 70 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	23
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	67
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19
INDUCTIVE LOOP DETECTOR	EACH	11
PREFORMED DETECTOR LOOP	FOOT	618
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	7
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,250
* LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
* FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC)2/C NO. 10 AND NO. 10	FOOT	970
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	5
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
MASTER CONTROLLER (SPECIAL)	EACH	1
UNI INTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	5
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1

TS 7350
ECON 132

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KNIGHT
Engineers & Architects

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PLOT DATE = 10/30/2017	DATE 11/15/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
WEBER ROAD AND NORMANTOWN ROAD

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	778
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60X10	

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

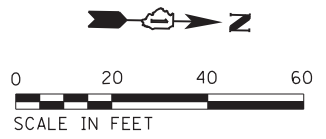
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF ROMEOVILLE

- 2 EACH LIGHT DETECTOR AND BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 11 EACH SIGNAL HEAD, 3-SECTION
- 2 EACH SIGNAL HEAD, 5-SECTION
- 3 EACH STEEL MAST ARM AND POLE
- 3 EACH SIGNAL POST
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION
- 1 EACH UNINTERRUPTABLE POWER SUPPLY



MATCH LINE STA. 3901+00

TEMPORARY WIRELESS INTERCONNECT TO I-55 SOUTHBOUND RAMP

WOOD POLE, CLASS 4, 55 FT APPROX STA 805+42.1, 103.7' LT

TEMPORARY WIRELESS INTERCONNECT TO NORMANTOWN ROAD

I-55 NORTHBOUND EXIT RAMP (RAMP C)

WOOD POLE, CLASS 4, 55 FT APPROX STA 806+48.6, 72.7' LT

WOOD POLE, CLASS 4, 55 FT APPROX STA 806+45.9, 115.0' RT

WOOD POLE, CLASS 4, 55 FT APPROX STA 805+45.1, 103.4' RT

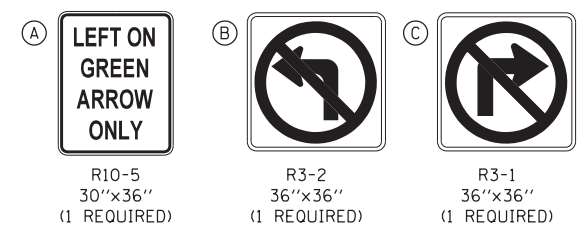
WEBER ROAD

WEBER ROAD

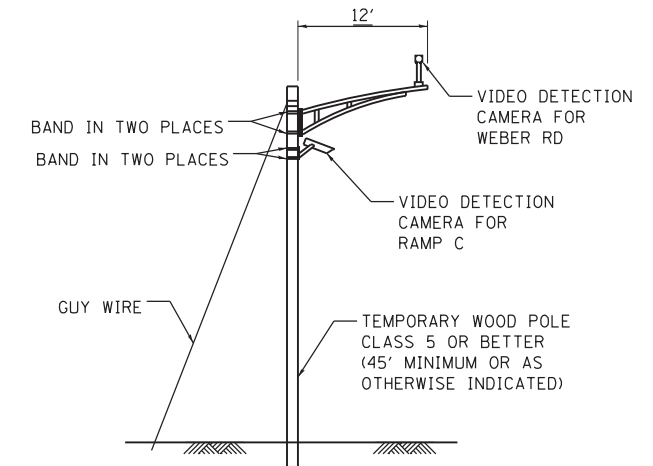
250' TO STOP BAR (TYP ALL STAGES)

MATCH LINE STA. 804+00

I-55 NB ENTRANCE (RAMP B)



SI GNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
NOT TO SCALE
NOTE: EACH VIDEO CAMERA SHALL BE MOUNTED ON A 12' ALUMINUM MAST ARM OR WOOD POLE AS INDICATED ABOVE. THIS WORK WILL BE INCLUDED IN THE COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

TS 352
ECON 132

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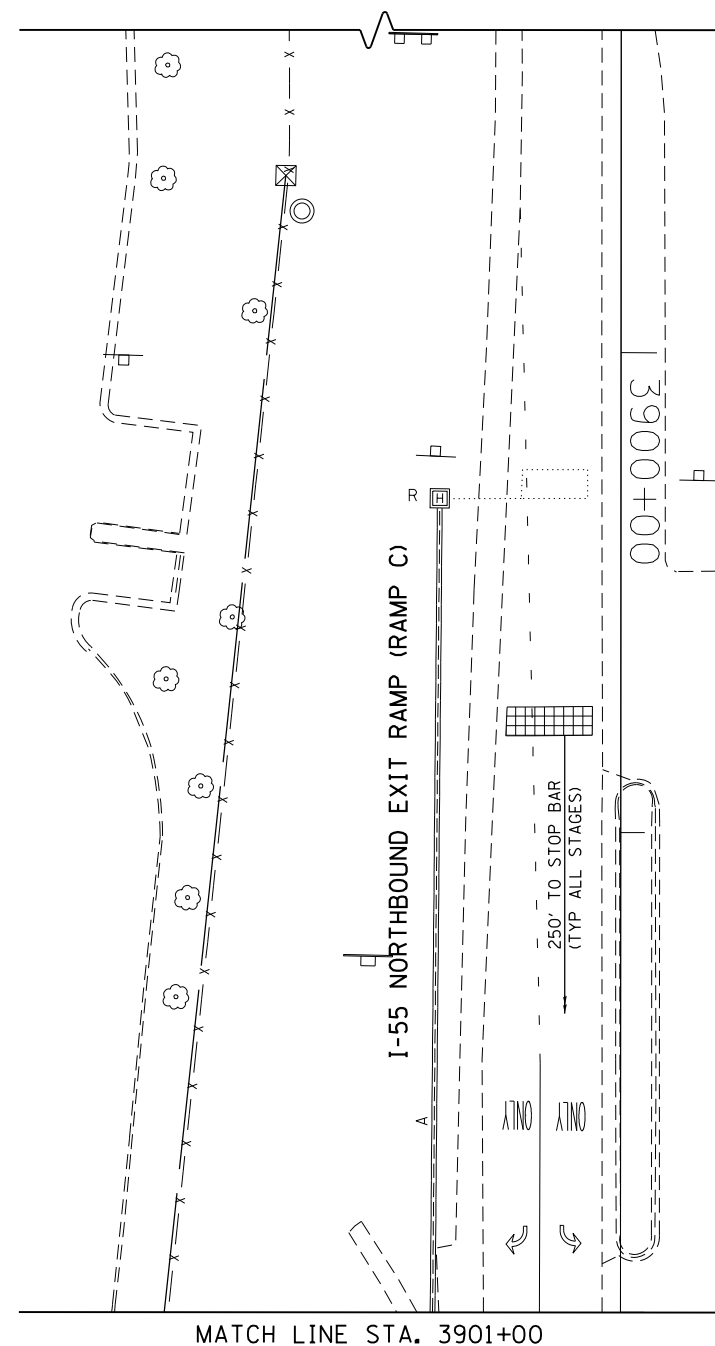
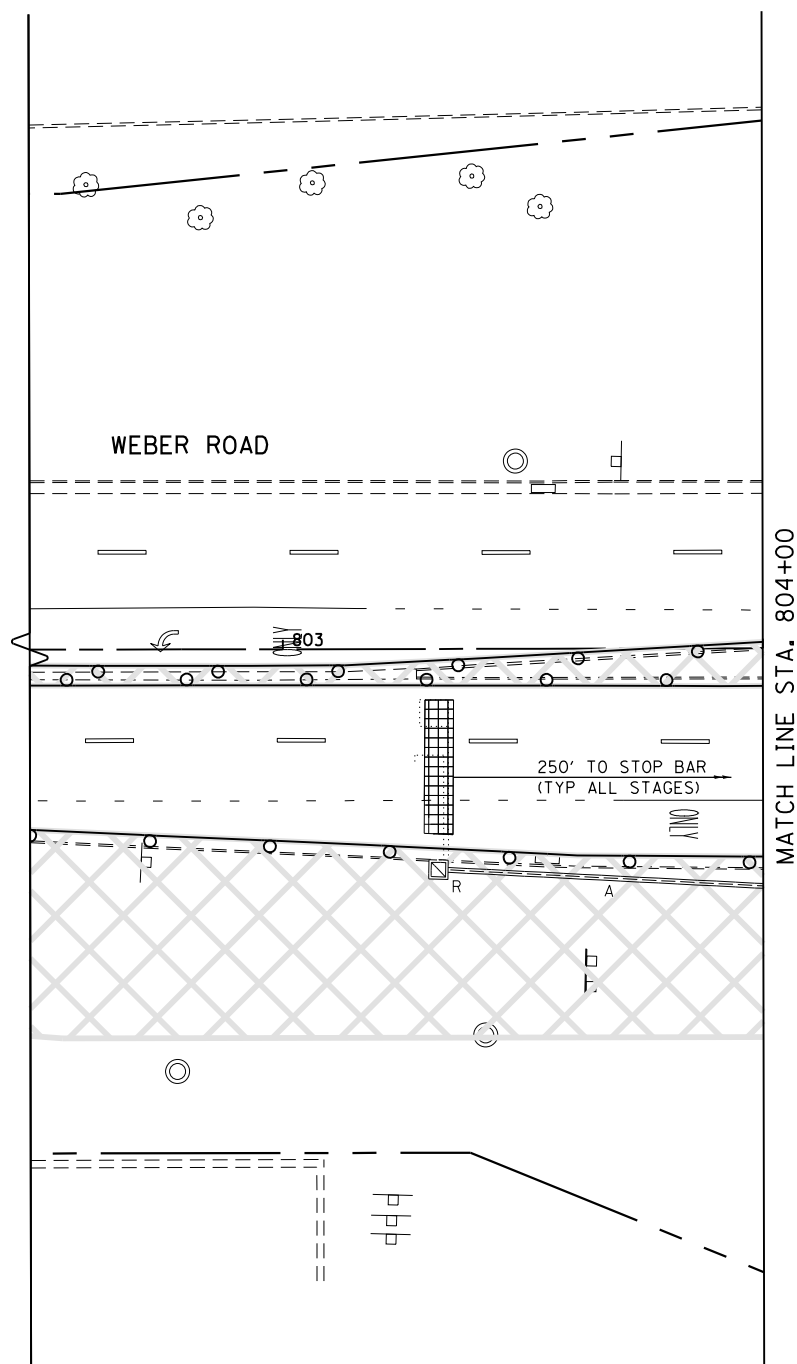
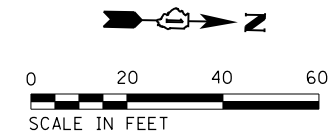
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	PLOT DATE = 6/8/2017	CHECKED MJM	REVISED -
		DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRE-STAGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
WEBER ROAD AND I-55 NORTHBOUND RAMP**

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	779
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.



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Engineers & Architects

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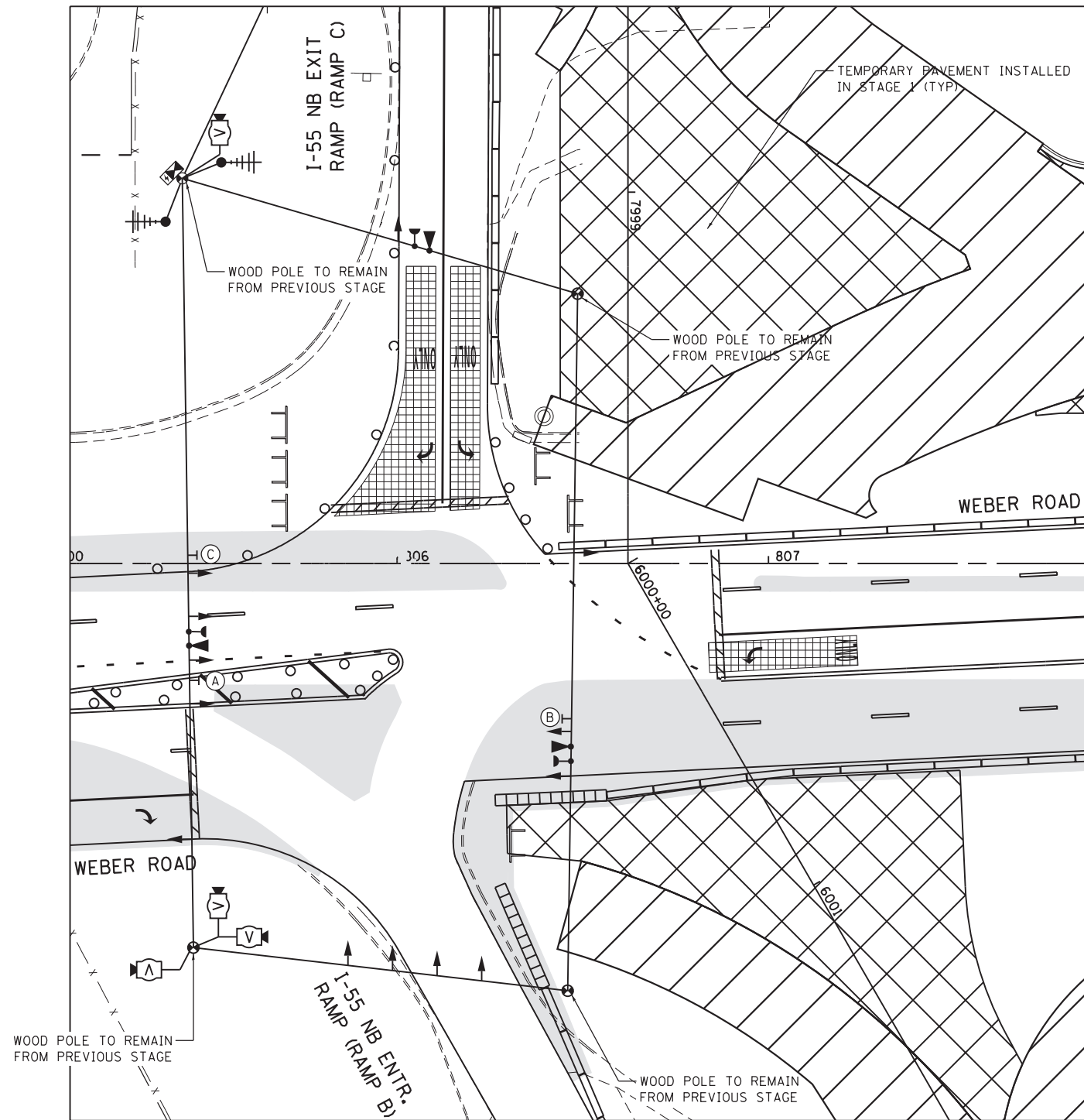
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL STAGES
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
WEBER ROAD AND I-55 NORTHBOUND RAMPS

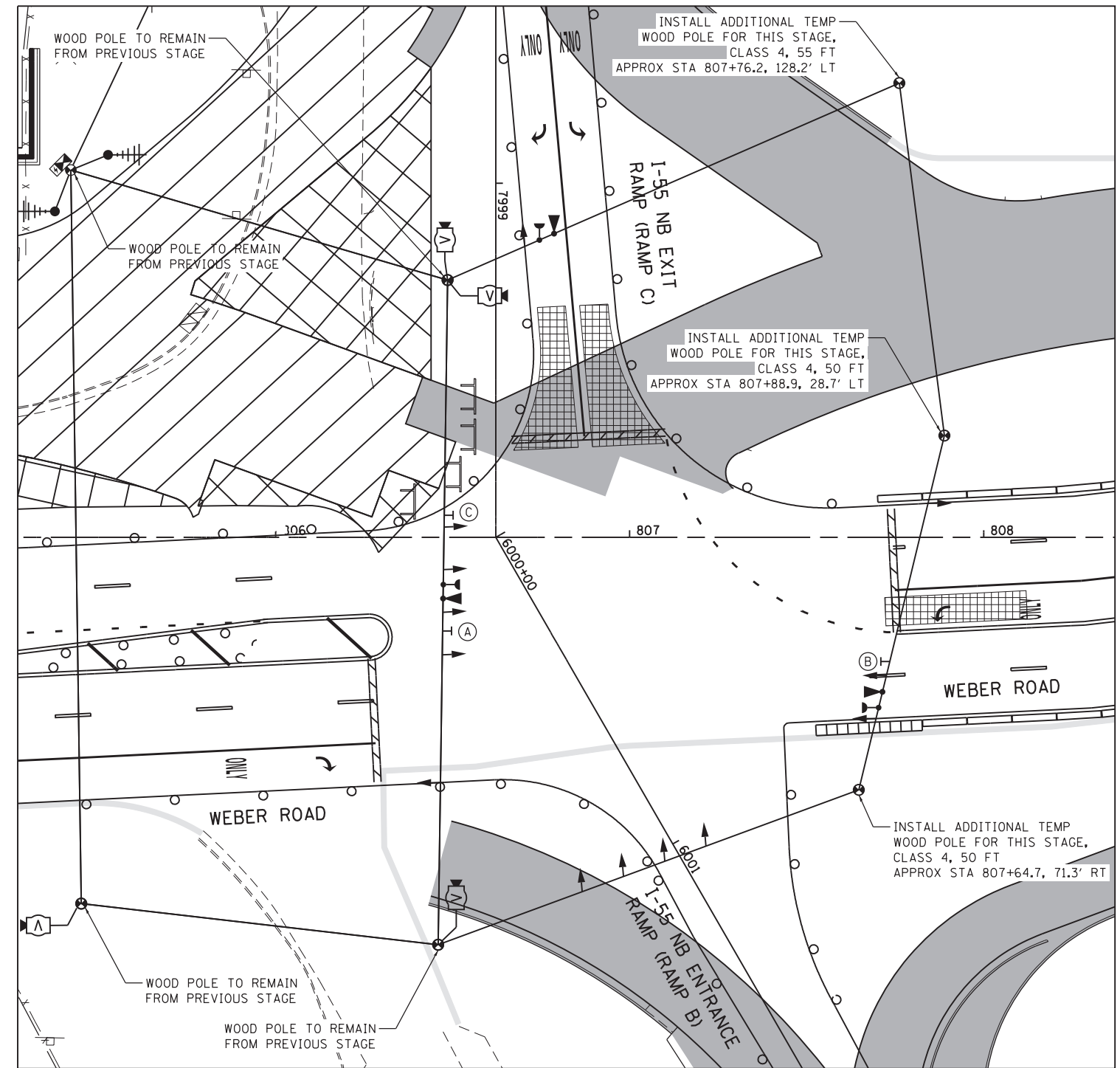
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F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	780
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

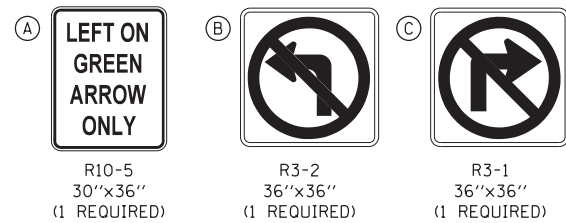
TS
ECON 132



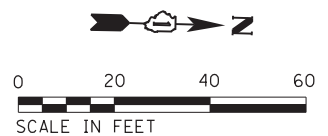
STAGE 1 AND 1A



STAGE 1B, 1C AND 1D



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



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Engineers & Architects

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	DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

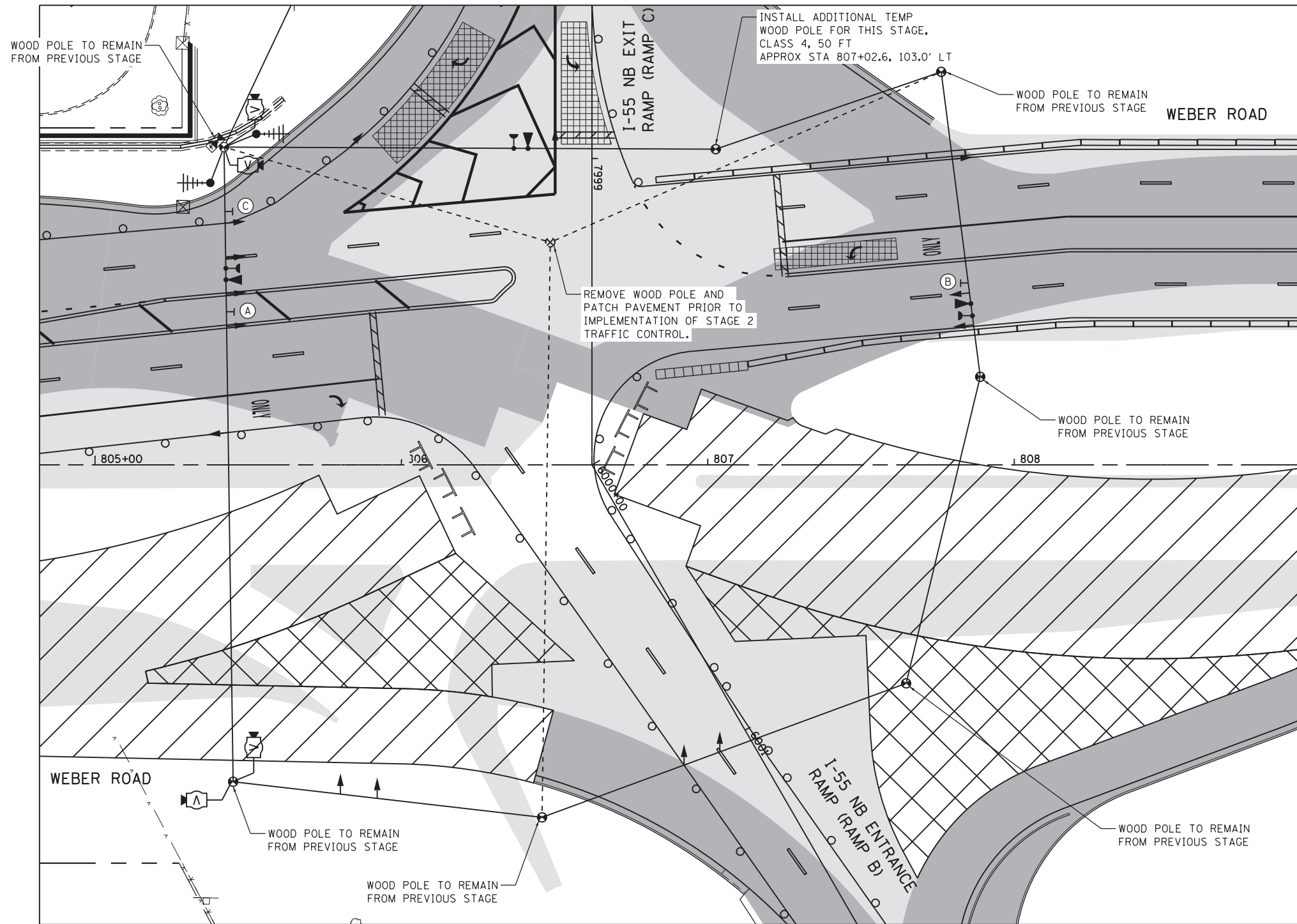
STAGE 1, 1A, 1B, 1C AND 1D

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 NORTHBOUND RAMPS**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	781
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

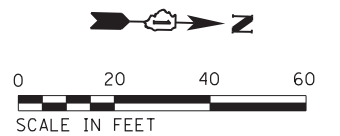
**TS 352
ECON 132**



STAGE 2



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



TS 352
ECON 132

STAGE 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 NORTHBOUND RAMPS

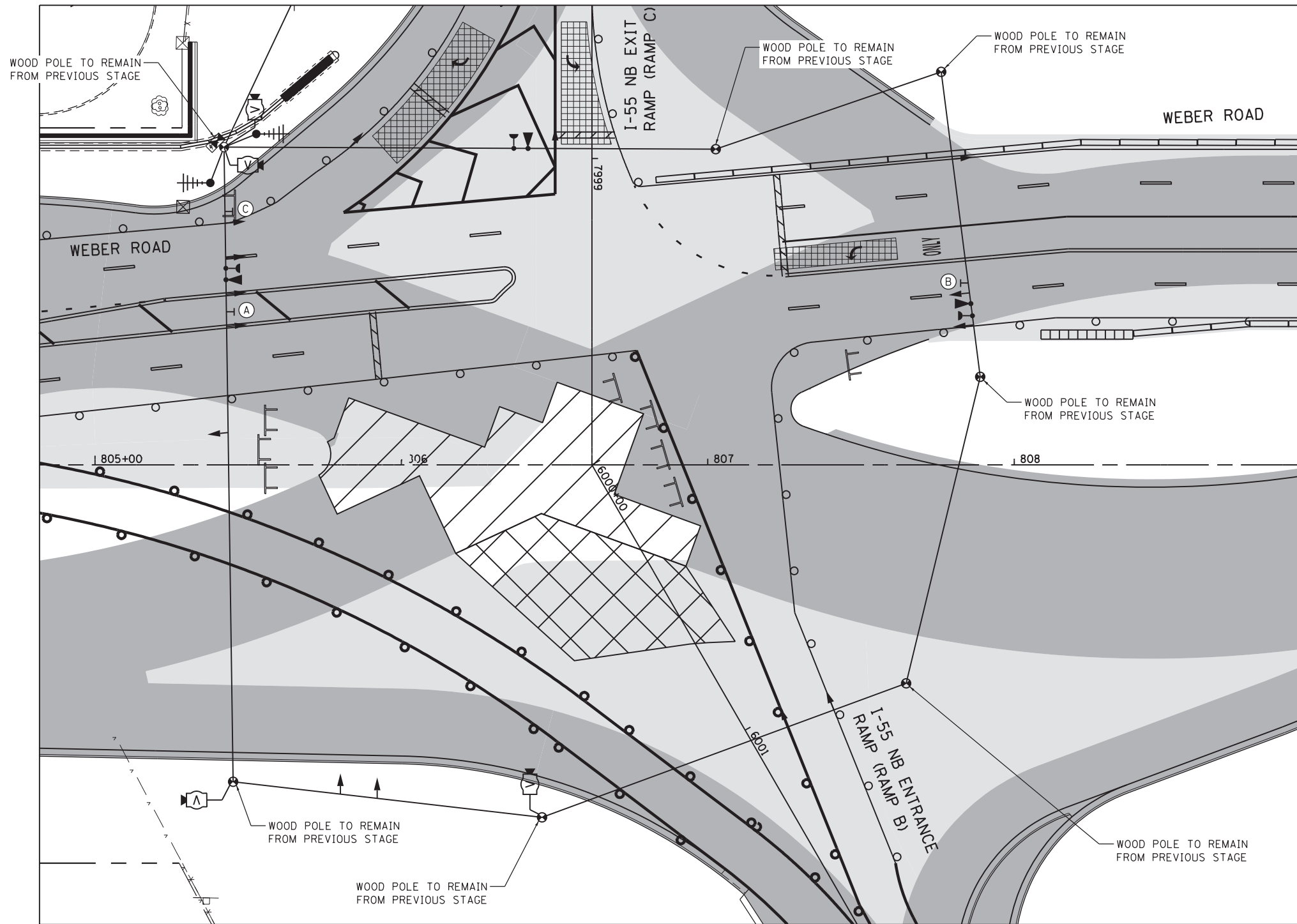
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F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	782
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

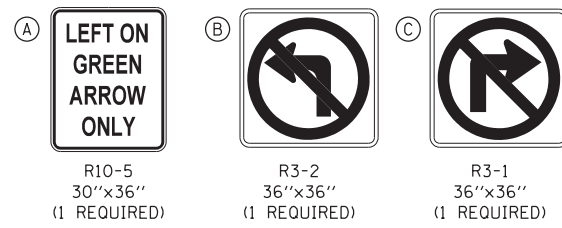
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KNIGHT
Engineers & Architects

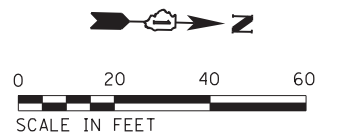
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	DRAWN GR	REVISED -
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PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -



STAGE 2A, 2B and 2C



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



TS 352
ECON 132

STAGE 2A, 2B and 2C

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KNIGHT
Engineers & Architects

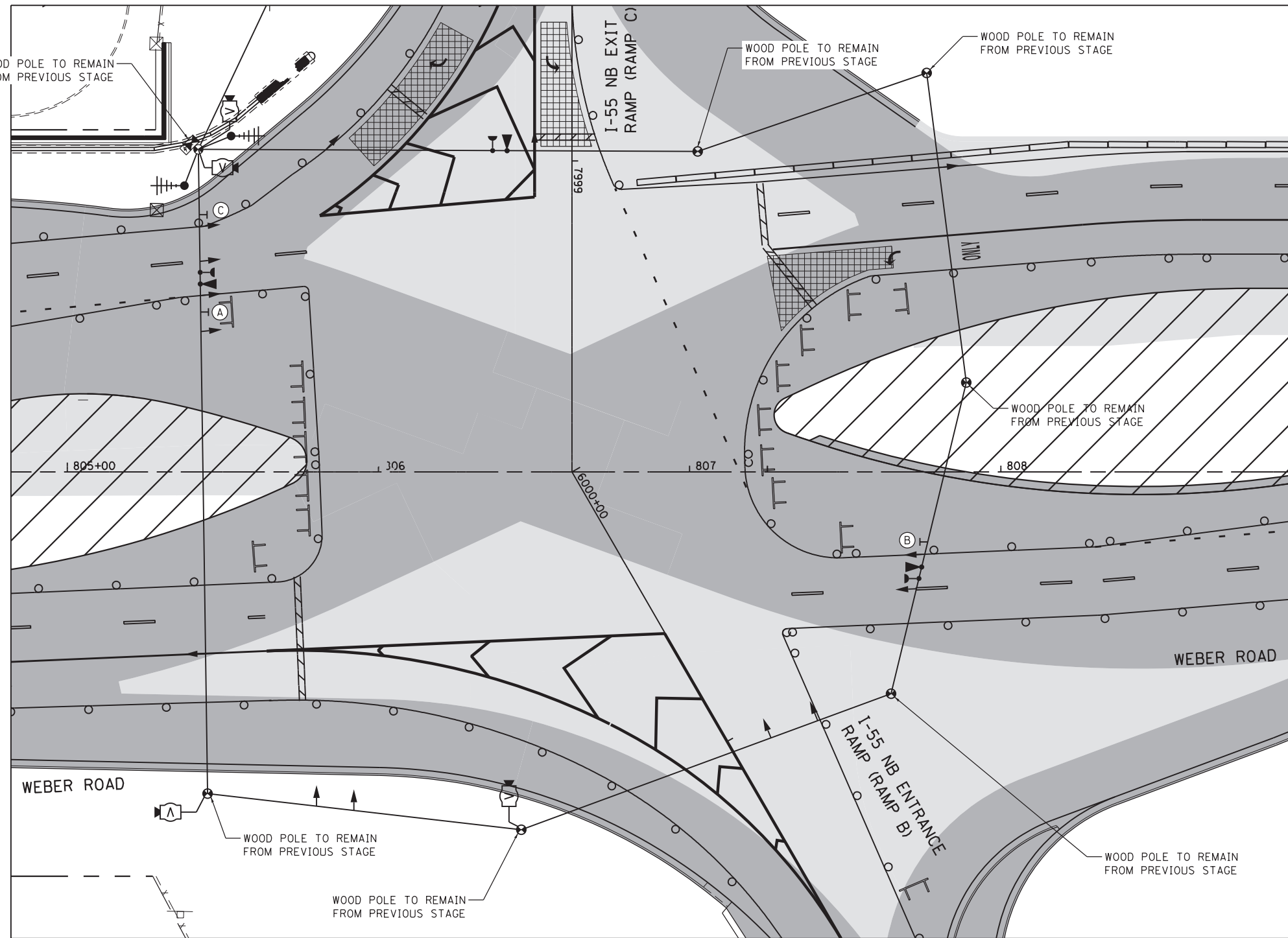
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

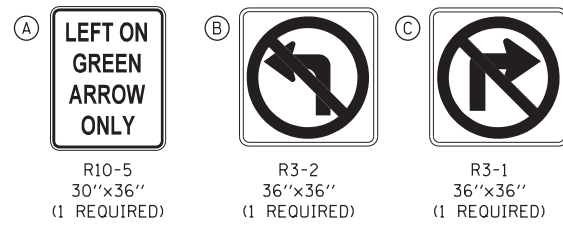
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 NORTHBOUND RAMPS

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

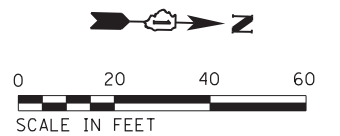
F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	783
CONTRACT NO. 60X10				
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				



STAGE 3



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



TS 352
ECON 132

FILE NAME = D:\60X10-eh-t-150205.dgn



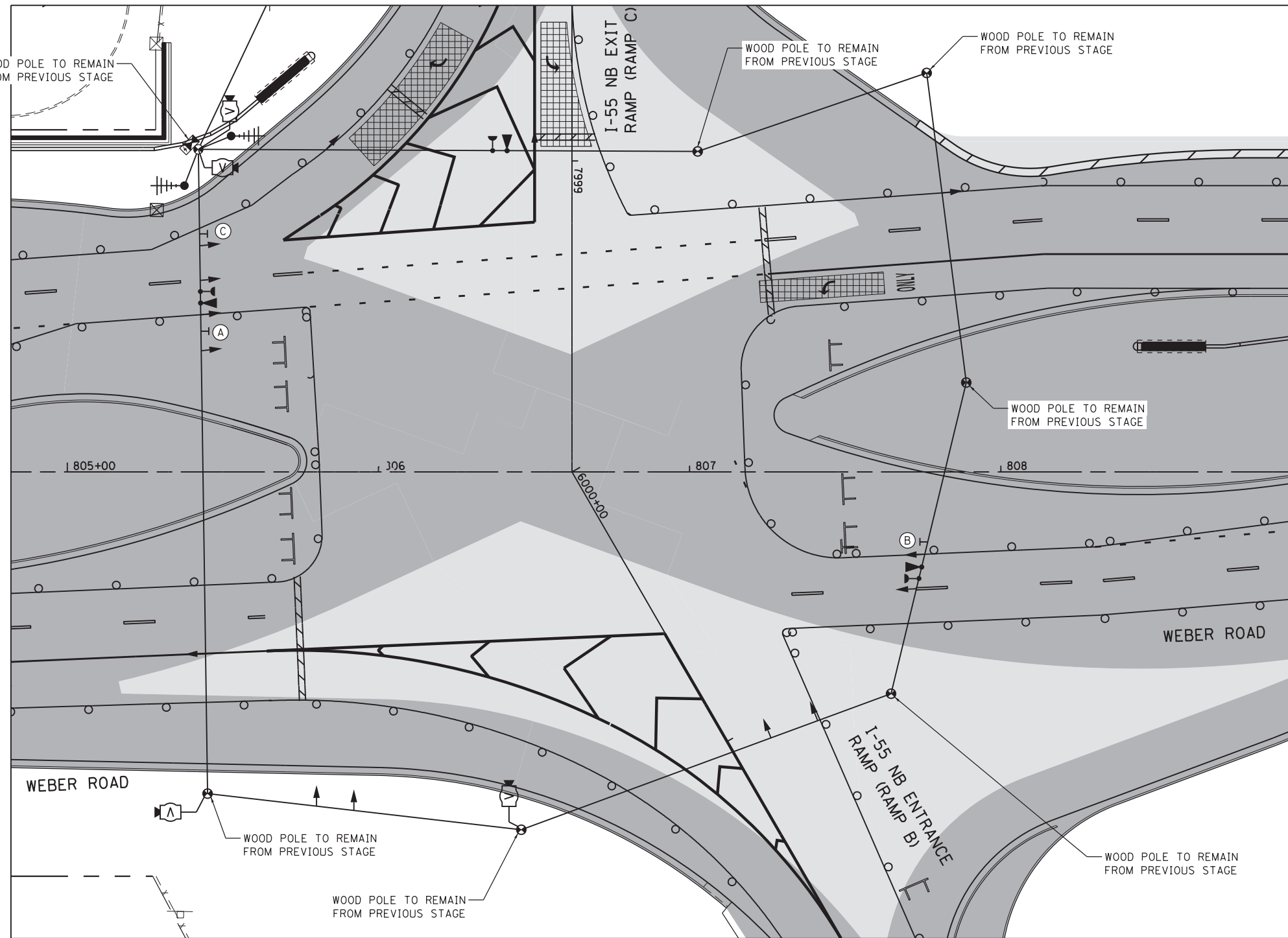
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	DRAWN GR	REVISED -
PLOT SCALE = 1:40	CHECKED MJM	REVISED -
PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

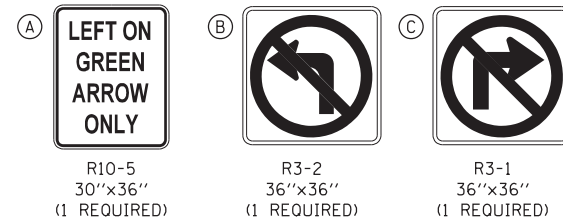
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 NORTHBOUND RAMPS

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

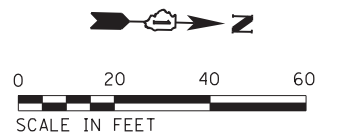
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	784
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



STAGE 3A, 3B AND 3C



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



**TS 352
ECON 132**

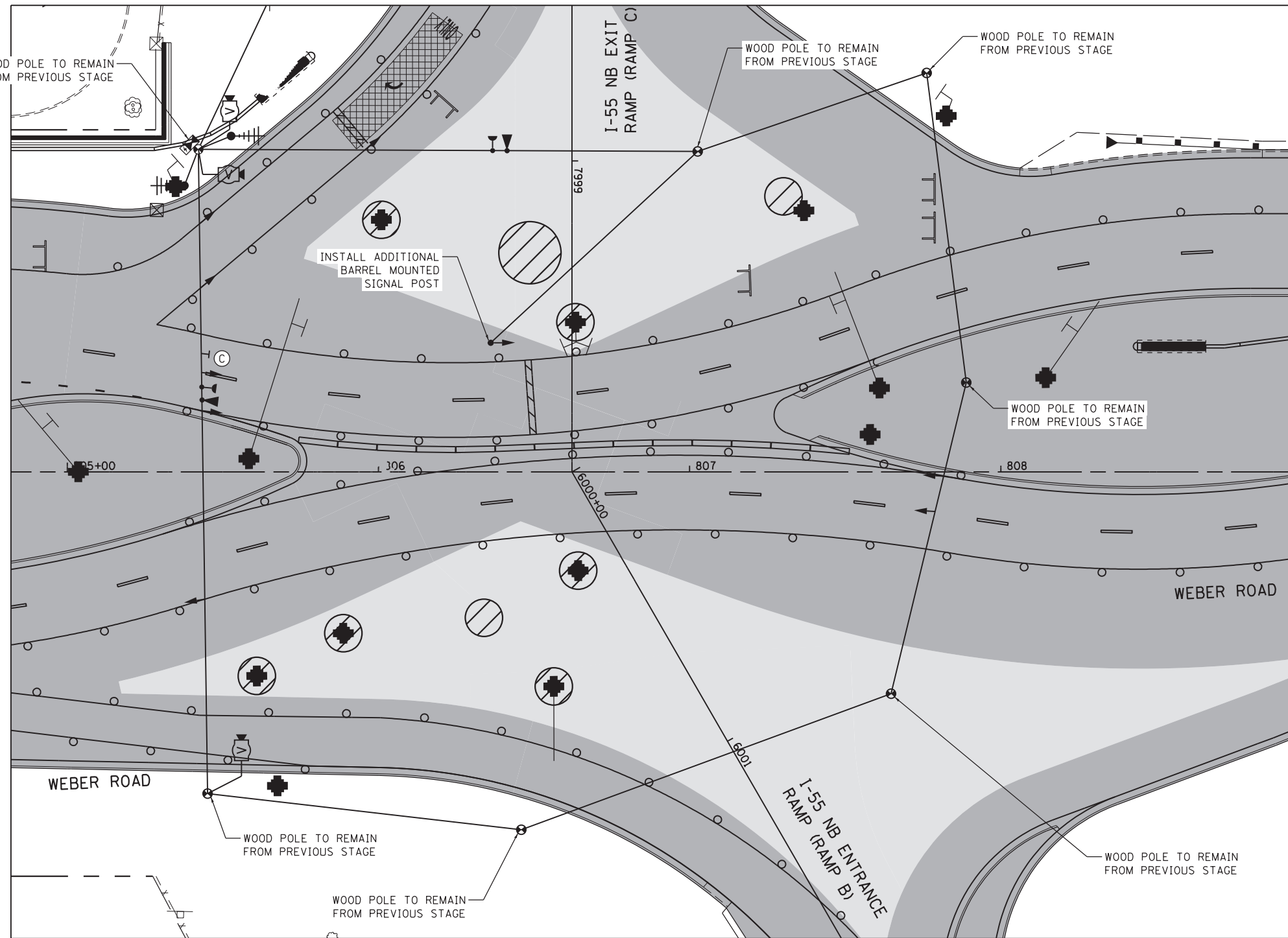
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KNIGHT Engineers & Architects	USER NAME = gr01	DESIGNED GR	REVISED -
		DRAWN GR	REVISED -
	PLOT SCALE = 1:40	CHECKED MJM	REVISED -
	PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 3A, 3B AND 3C			
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND I-55 NORTHBOUND RAMPS			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	785
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



STAGE 4

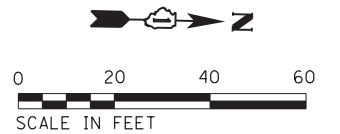


R3-1
36"x36"
(1 REQUIRED)

SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

NOTES:

- TEMPORARY TRAFFIC SIGNALS SHALL NOT BE REMOVED UNTIL PROPOSED TRAFFIC SIGNAL AND INTERCONNECT ARE IN OPERATION AND WRITTEN APPROVAL FOR REMOVAL OF TEMPORARY TRAFFIC SIGNAL INSTALLATION IS PROVIDED BY THE ENGINEER.
- MAINTAIN TEMPORARY WIRELESS INTERCONNECT IN STAGE 4 ALONG WEBER ROAD.
- TESTING OF PERMANENT TRAFFIC SIGNALS AND INTERCONNECT AT THE DDI SHALL BE PERFORMED IN STAGE 4 PER SPECIAL PROVISION FOR DIVERGING DIAMOND INTERCHANGE, FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET, SPECIAL. PERMANENT TRAFFIC SIGNAL AT THIS INTERSECTION AND PERMANENT INTERCONNECT ALONG WEBER ROAD SHALL BE TESTED IN STAGE 4 AND READY FOR ACTIVATION PRIOR TO STAGE 4A. IN STAGE 4A AND 4B, WHEN THE DDI TRAFFIC CONFIGURATION IS IN EFFECT, INTERSECTIONS AT NORMANTOWN, RAMPS C/B, RAMPS D/A, REMINGTON/WINDHAM AND RODEO/REMINGTON SHALL OPERATE WITH THE PERMANENT TRAFFIC SIGNALS AND INTERCONNECT. SEE PERMANENT TRAFFIC SIGNAL PLANS AND MAINTENANCE OF TRAFFIC PLANS.



TS 352
ECON 132

STAGE 4



USER NAME = gra1	DESIGNED GR	REVISED -
	DRAWN GR	REVISED -
PLOT SCALE = 1:40	CHECKED MJM	REVISED -
PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

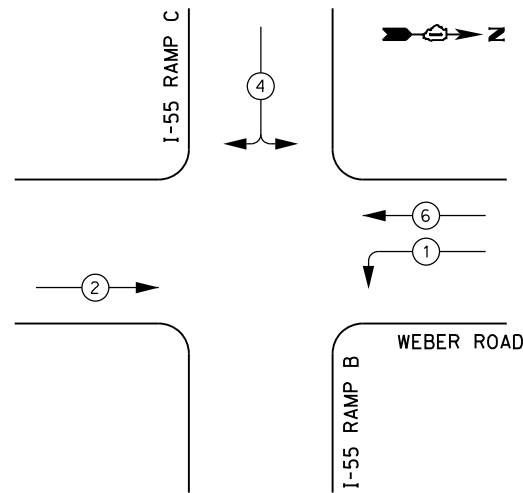
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 NORTHBOUND RAMPS

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	786
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

FILE NAME = D:\60X10\eh\150207.dgn

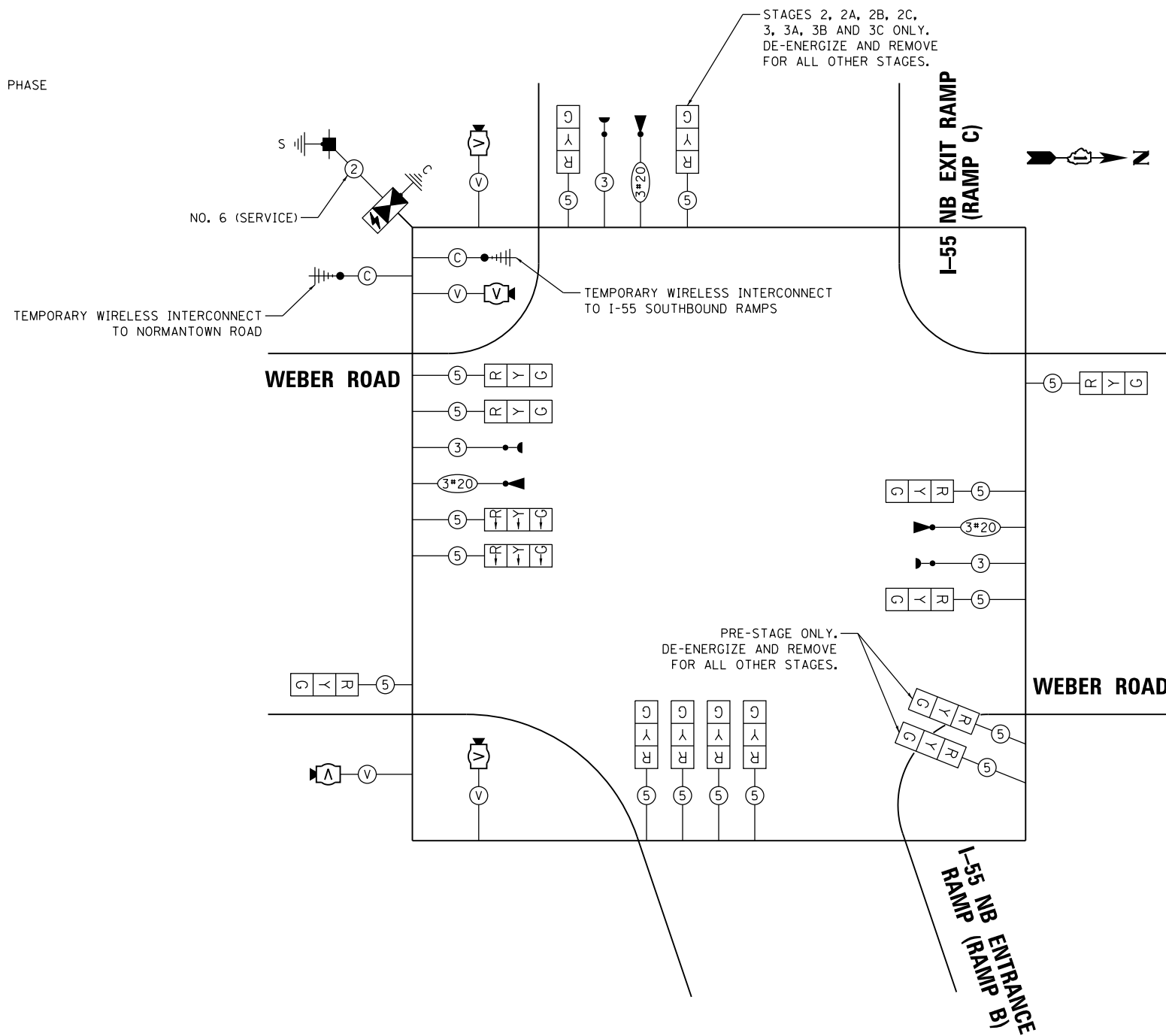
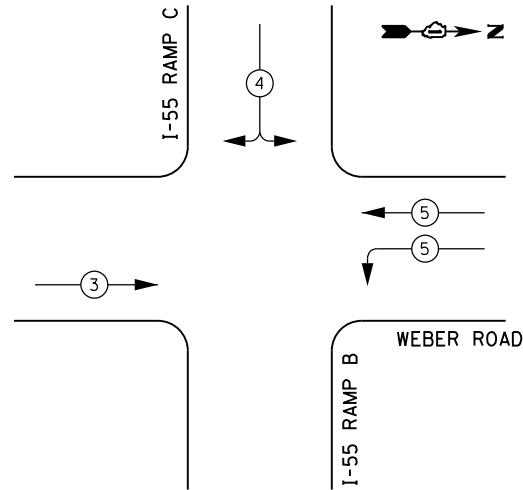
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY CABLE PLAN
PRE-STAGE, STAGE 1, 1A, 1B, 1C, 1D,
2, 2A, 2B, 2C, 3, 3A, 3B, AND 3C

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PERMISSIVE ARROW	-	10	10	--
PED. SIGNAL	-	20	100	--
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	-	120	50	--
LUMINAIRE	-	-	-	--
TOTAL =				453.5

ENERGY COSTS TO:
 VILLAGE OF ROMEOVILLE
 1050 W ROMEO ROAD
 ROMEOVILLE, ILLINOIS 60446
 ENERGY SUPPLY: CONTACT: JOE LEPE
 PHONE: (815) 724-5569
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____

FILE NAME = D:\60X10\eh\150221.dgn

KNIGHT
 Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
PLOT SCALE = 1:40	DRAWN GR	REVISED -
PLOT DATE = 6/29/2017	CHECKED MJM	REVISED -
	DATE 08/04/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
WEBER ROAD AND I-55 NORTHBOUND RAMPS

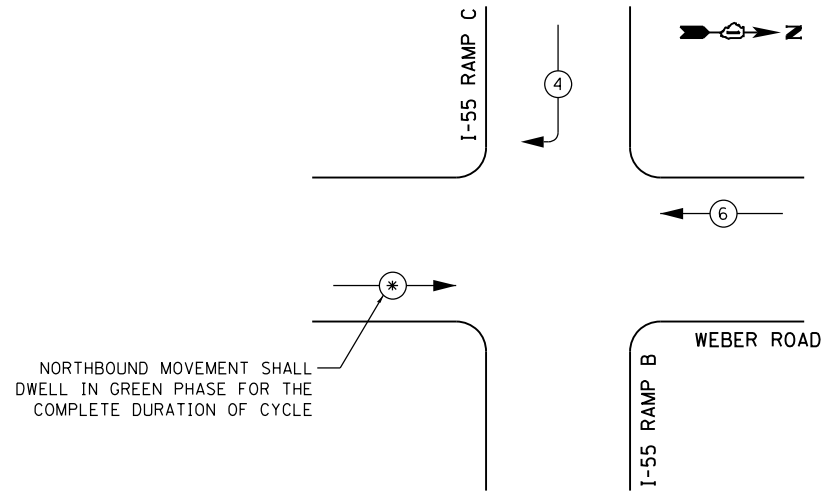
SCALE: AS SHOWN | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	787
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

TS 352
ECON 132

PRE-STAGE, STAGE 1, 1A, 1B, 1C, 1D,
2, 2A, 2B, 2C, 3, 3A, 3B, AND 3C

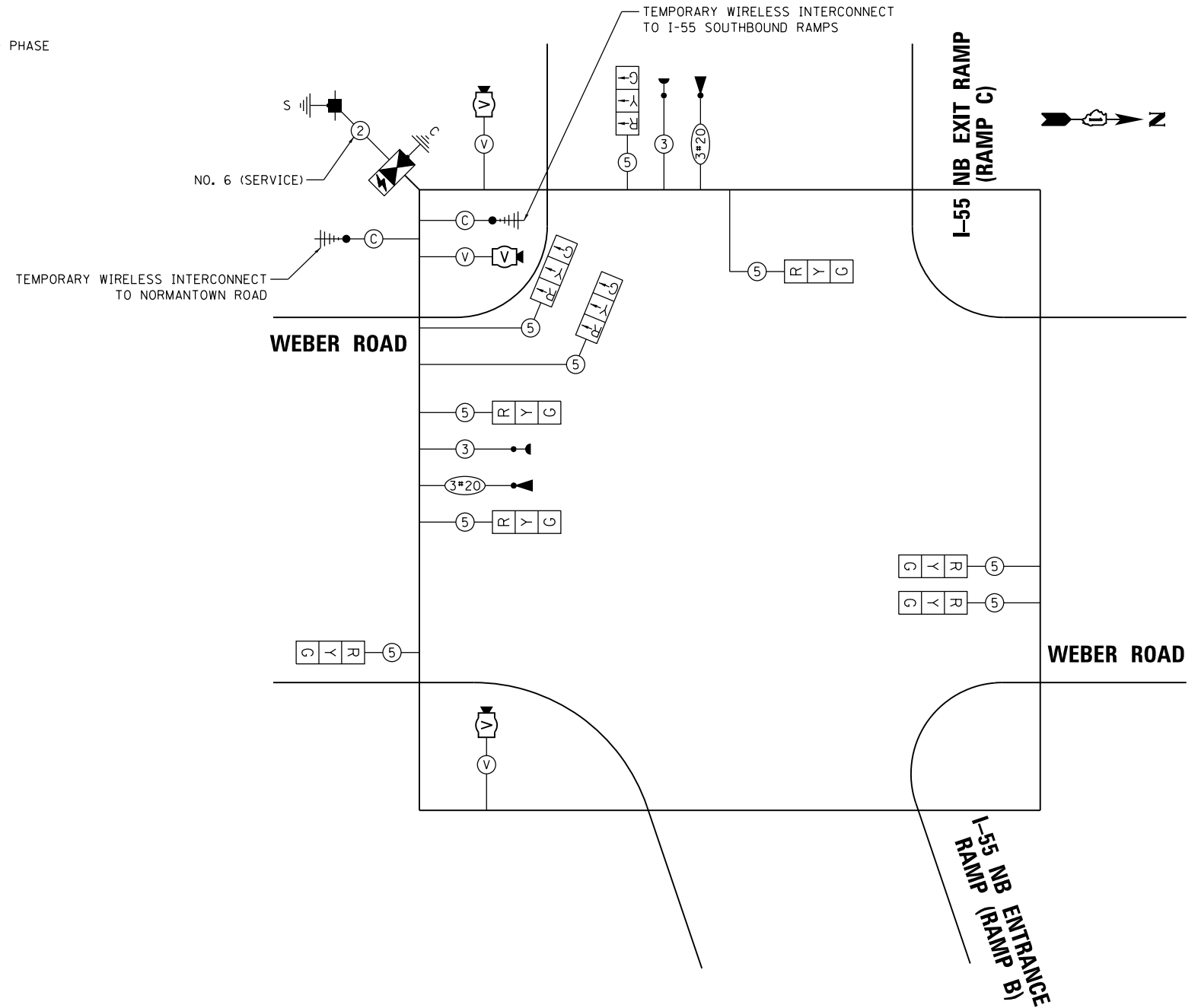
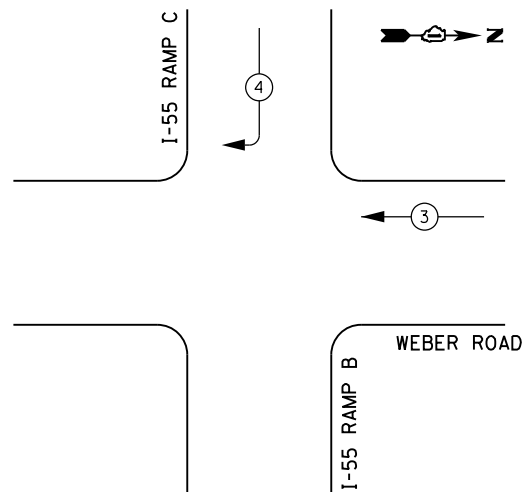
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



**TEMPORARY CABLE PLAN
STAGE 4**

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	-	10	10	--
PED. SIGNAL	-	20	100	--
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	-	120	50	--
LUMINAIRE	-	-	-	--
TOTAL =				382.1

ENERGY COSTS TO:

VILLAGE OF ROMEOVILLE
1050 W ROMEO ROAD
ROMEOVILLE, ILLINOIS 60446

ENERGY SUPPLY: CONTACT: JOE LEPE
PHONE: (815) 724-5569
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____

FILE NAME = D:\60X10\eh\150222.mxd

KNIGHT
Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
PLOT SCALE = 1:40	DRAWN GR	REVISED -
PLOT DATE = 6/29/2017	CHECKED MJM	REVISED -
	DATE 08/04/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
WEBER ROAD AND I-55 NORTHBOUND RAMP**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	787A
			CONTRACT NO. 60X10	
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

**TS 352
ECON 132**

STAGE 4

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

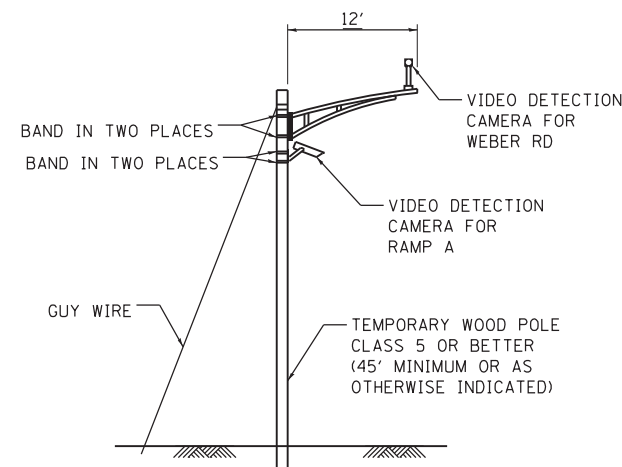
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF ROMEOVILLE

- 2 EACH LIGHT DETECTOR AND BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

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

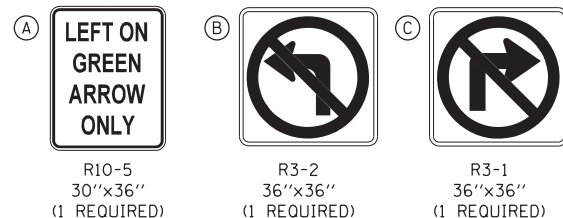
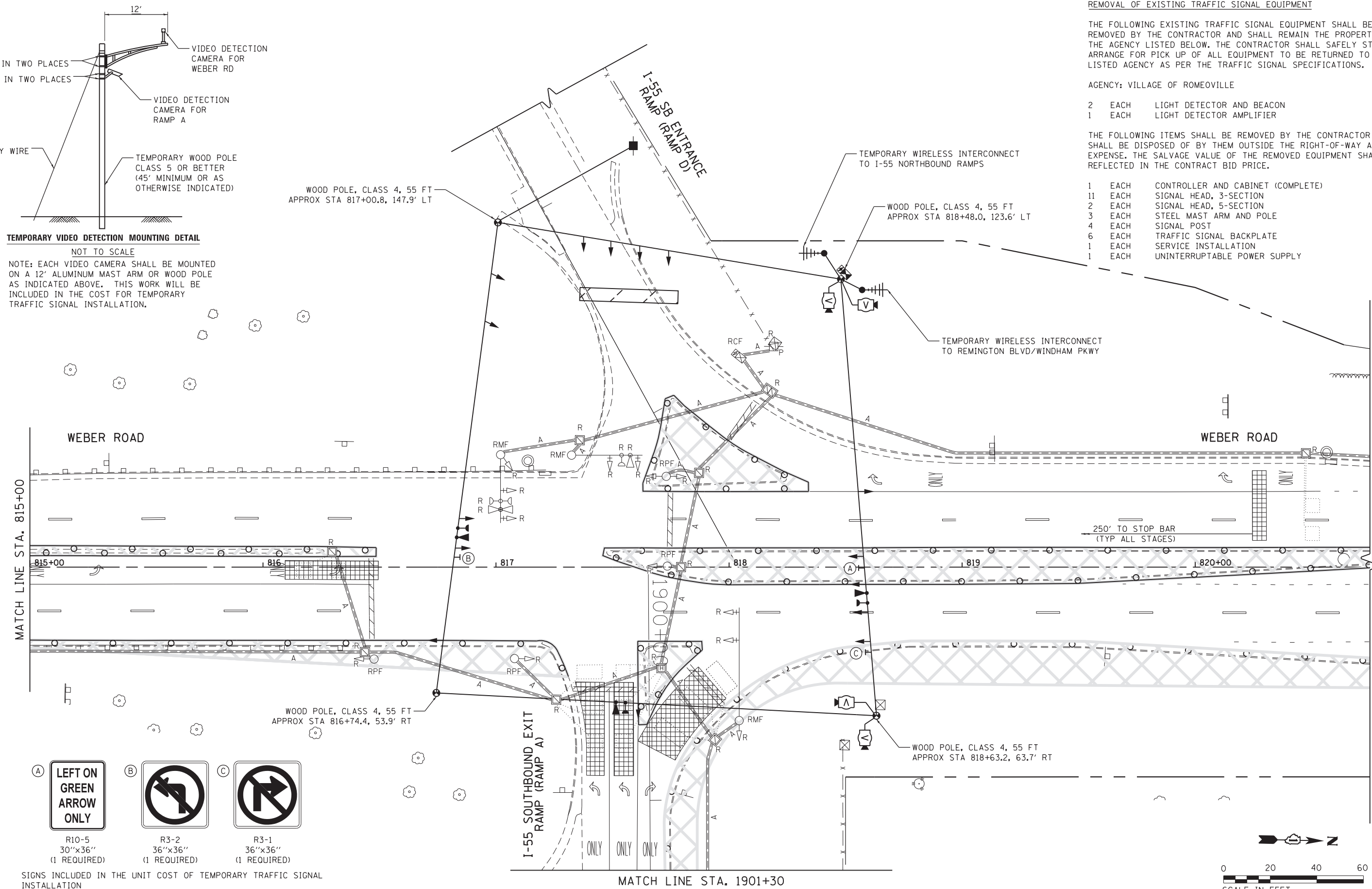
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 11 EACH SIGNAL HEAD, 3-SECTION
- 2 EACH SIGNAL HEAD, 5-SECTION
- 3 EACH STEEL MAST ARM AND POLE
- 4 EACH SIGNAL POST
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH SERVICE INSTALLATION
- 1 EACH UNINTERRUPTABLE POWER SUPPLY



TEMPORARY VIDEO DETECTION MOUNTING DETAIL

NOT TO SCALE

NOTE: EACH VIDEO CAMERA SHALL BE MOUNTED ON A 12' ALUMINUM MAST ARM OR WOOD POLE AS INDICATED ABOVE. THIS WORK WILL BE INCLUDED IN THE COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



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KNIGHT
Engineers & Architects

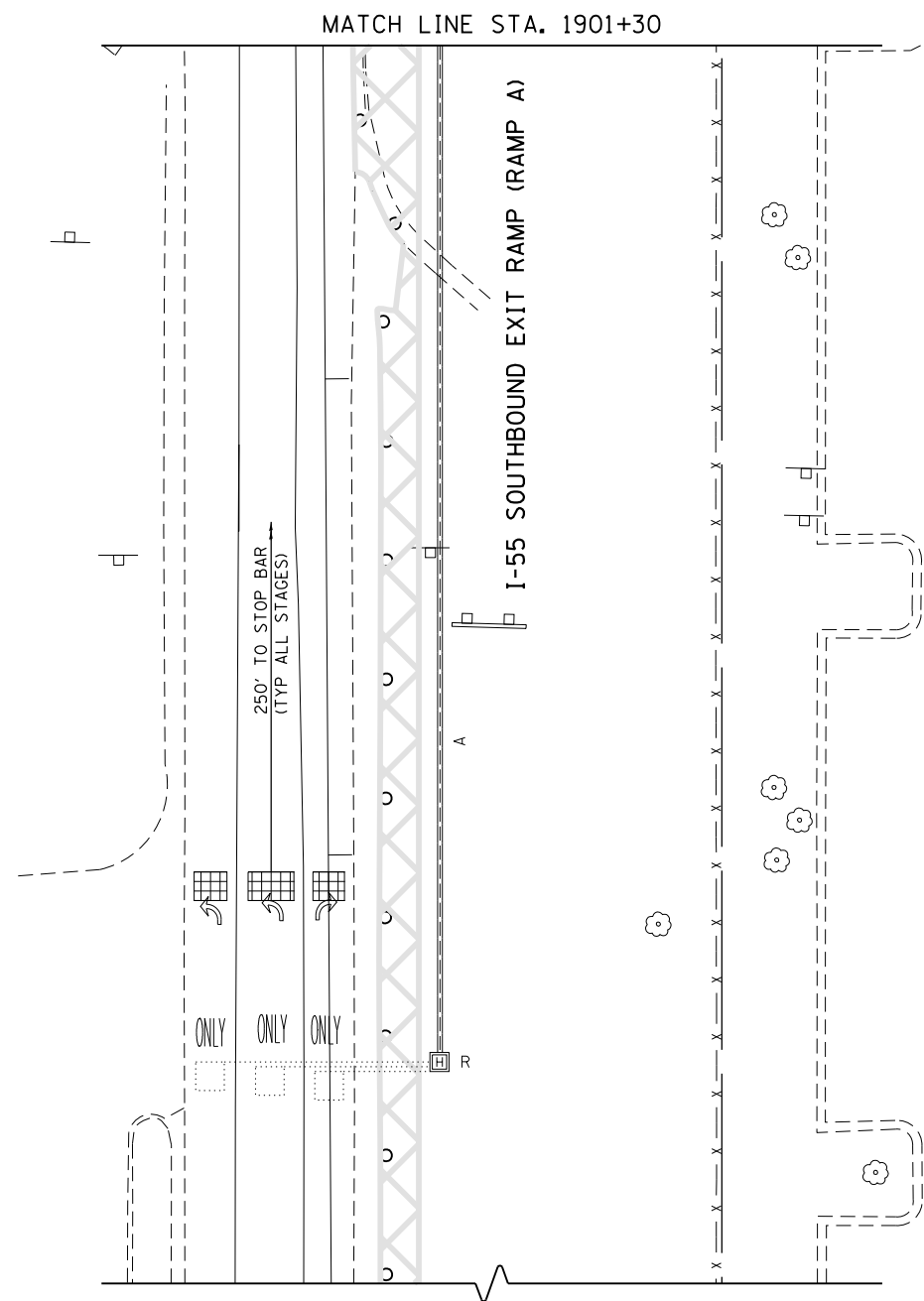
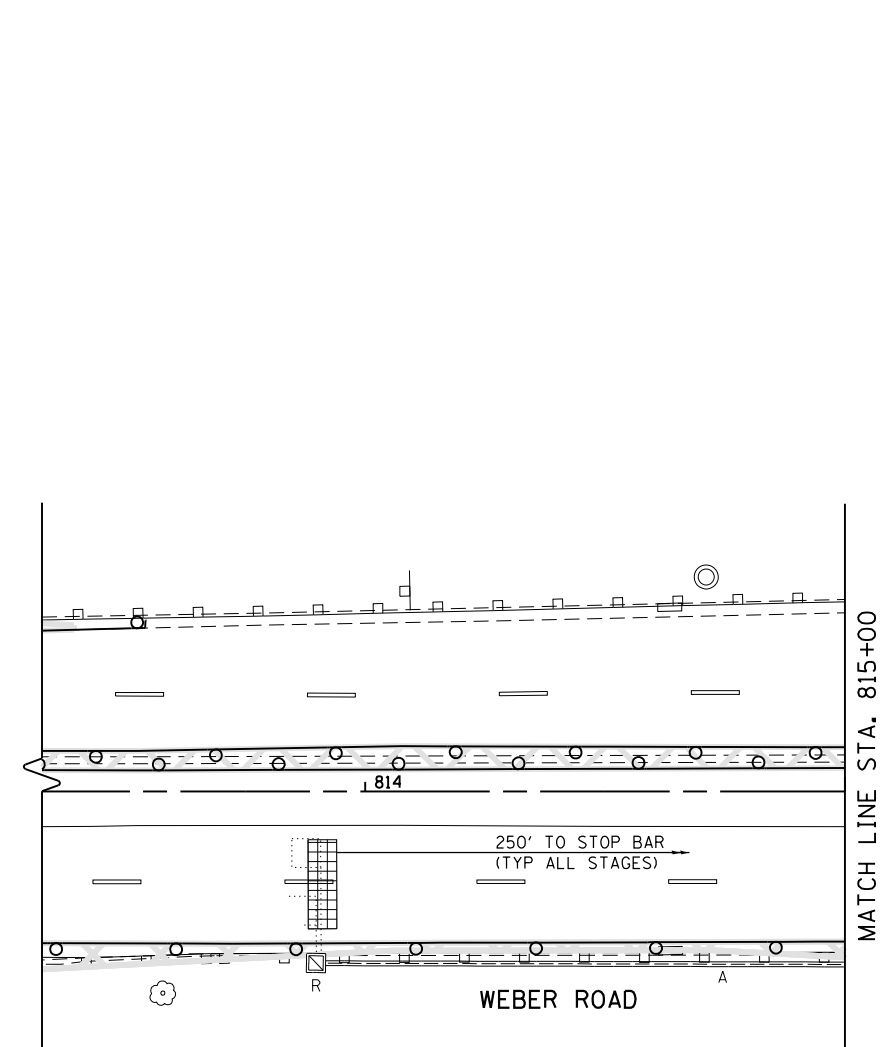
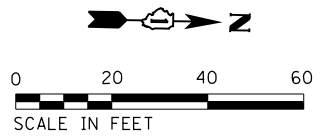
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PLOT DATE = 6/8/2017	CHECKED MJM	REVISED -
	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRE-STAGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
WEBER ROAD AND I-55 SOUTHBOUND RAMPS
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	788
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

TS 354
ECON 132



FILE NAME = D:\60X10-eh-t-150301.dgn



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PLOT DATE = 5/13/2017	DATE 05/12/17	REVISED -

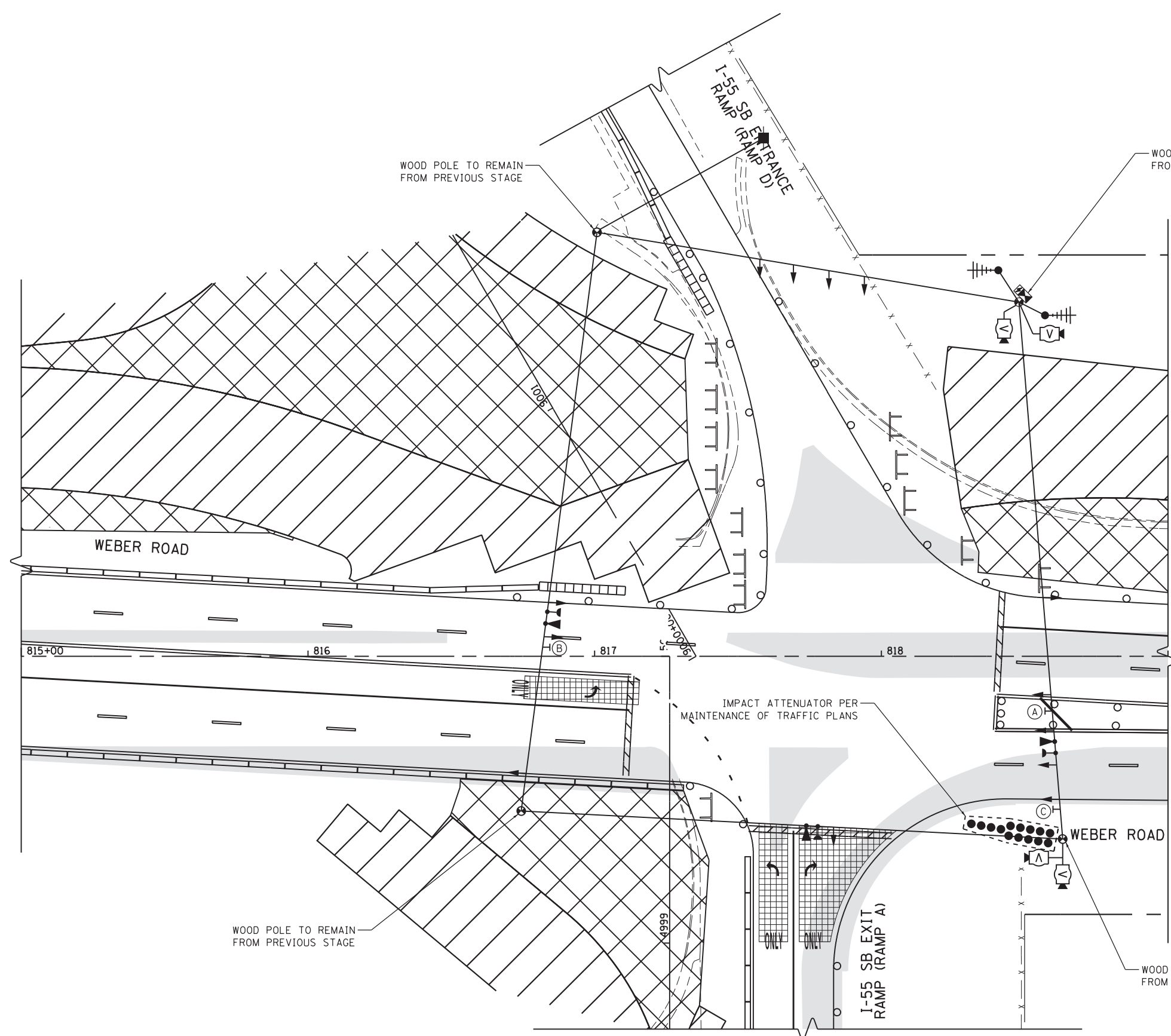
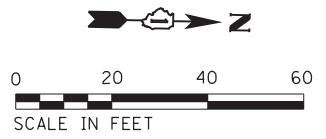
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


**ALL STAGES
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
WEBER ROAD AND I-55 SOUTHBOUND RAMPS**

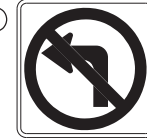
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*	(99-1HB-1) R-1	WILL	1508	789
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				


TS
ECON 132

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.



- A


R10-5
30"x36"
(1 REQUIRED)
 - B


R3-2
36"x36"
(1 REQUIRED)
 - C


R3-1
36"x36"
(1 REQUIRED)
- SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

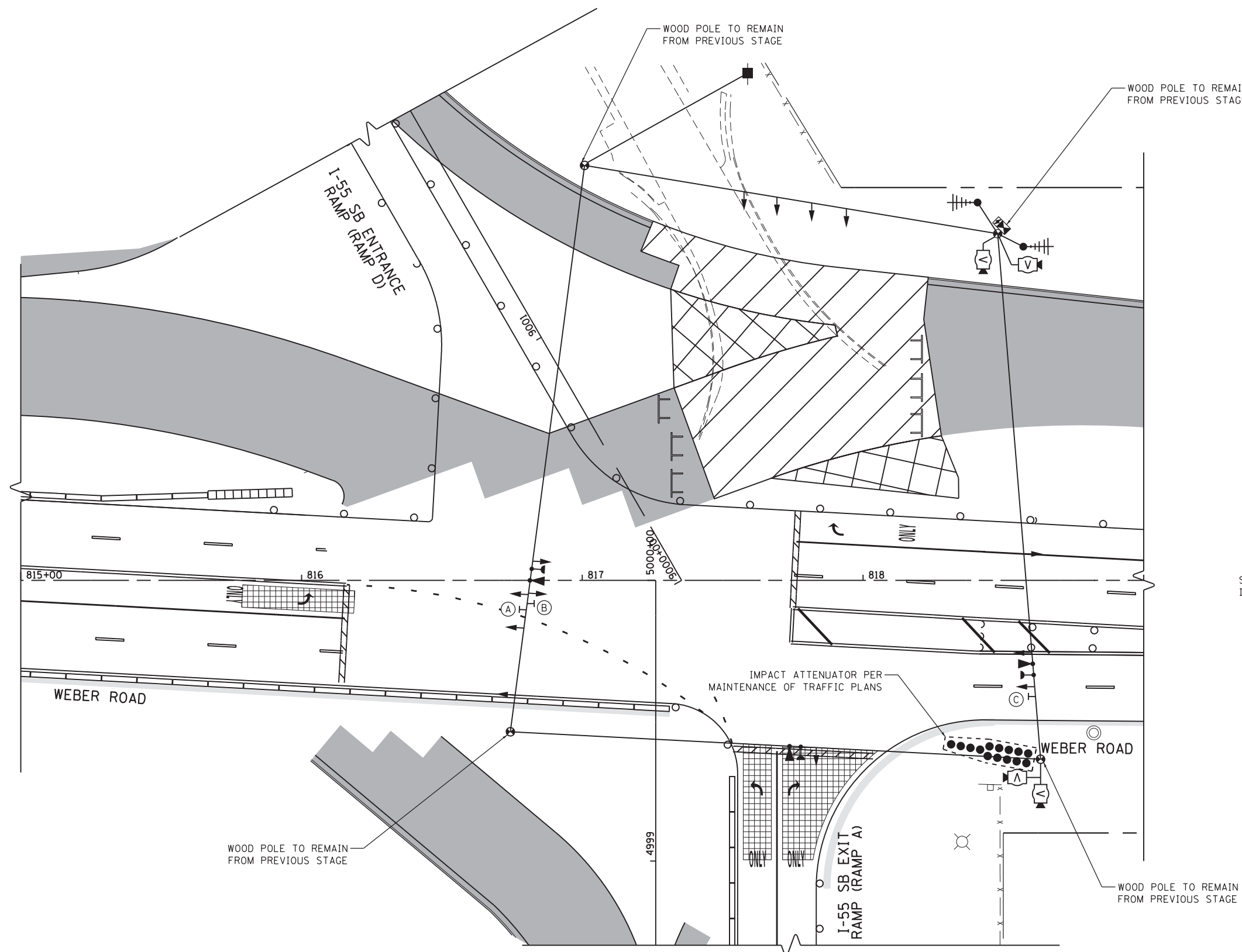
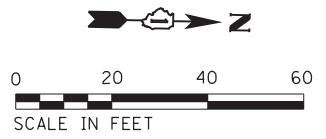
STAGE 1 AND 1A


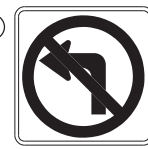

STAGE 1 AND 1A

**TS 354
ECON 132**

FILE NAME = D:\60X10-eh-t-150302.dgn

KNIGHT Engineers & Architects	USER NAME = gr01	DESIGNED GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND I-55 SOUTHBOUND RAMPS	F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:40	CHECKED MJM	REVISED -			*	(99-1HB-1) R-1	WILL	1508	790
	PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -		SCALE: AS SHOWN	SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60X10		
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT										



- (A)  R10-5
30"x36"
(1 REQUIRED)
 - (B)  R3-2
36"x36"
(1 REQUIRED)
 - (C)  R3-1
36"x36"
(1 REQUIRED)
- SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

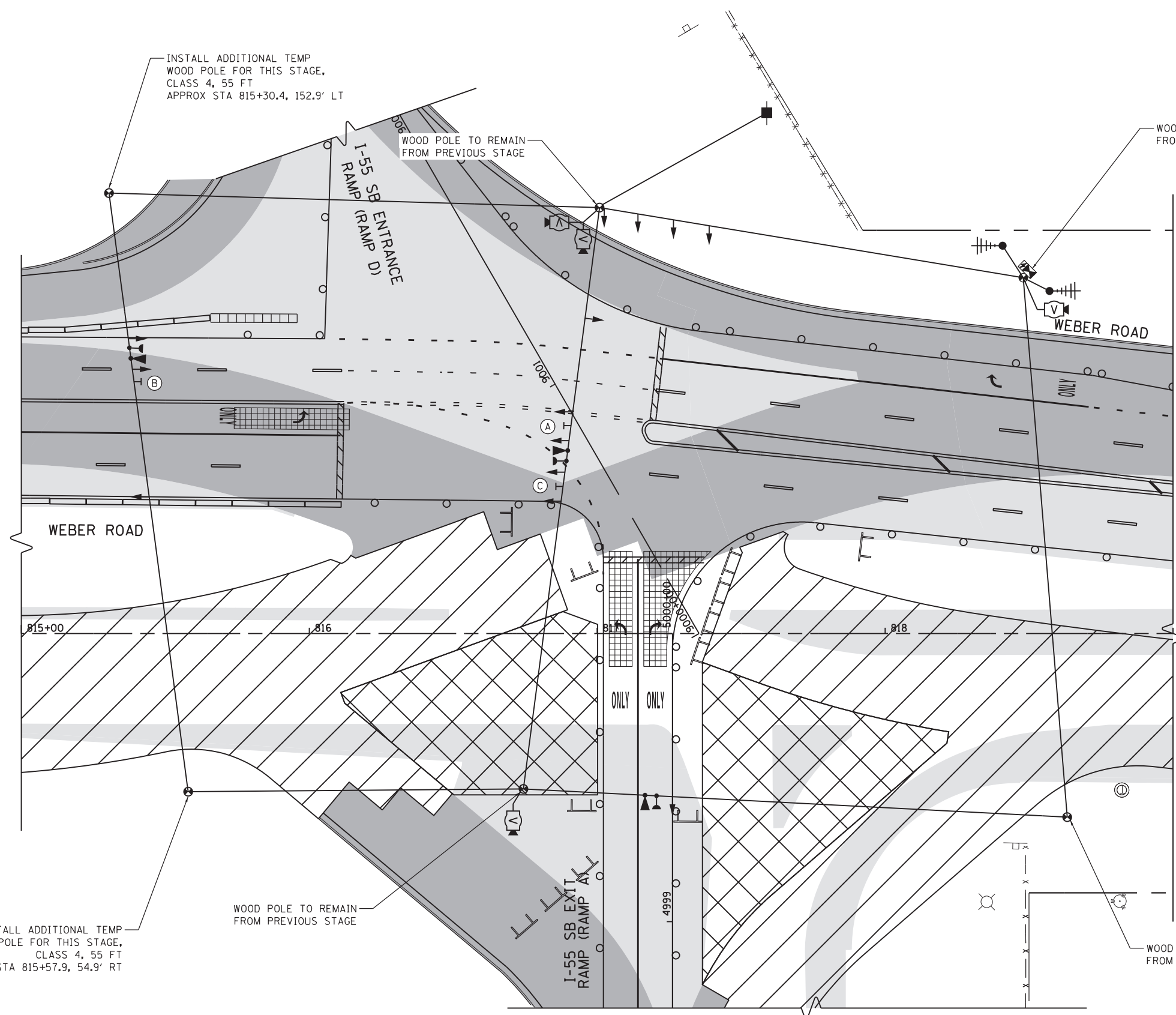
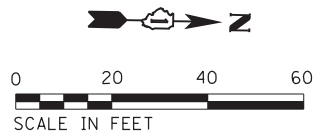
STAGE 1B, 1C AND 1D


STAGE 1B, 1C AND 1D

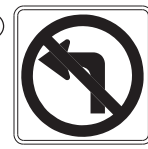
TS 354
ECON 132


FILE NAME = D:\60X10-eh-t-150303.dgn

KNIGHT Engineers & Architects	USER NAME = gr01	DESIGNED GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND I-55 SOUTHBOUND RAMPS	F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:40	CHECKED MJM	REVISED -			*	(99-1HB-1) R-1	WILL	1508	791
	PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -		SCALE: AS SHOWN	SHEET NO.	OF	SHEETS	STA.	TO STA.
						* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



- 

A LEFT ON GREEN ARROW ONLY
R10-5
30"x36"
(1 REQUIRED)
 - 

B R3-2
36"x36"
(1 REQUIRED)
 - 

C R3-1
36"x36"
(1 REQUIRED)
- SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

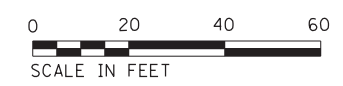
STAGE 2

STAGE 2

TS 354
ECON 132

FILE NAME = D:\60X10-eh-t-150304.dgn

KNIGHT Engineers & Architects	USER NAME = gr01	DESIGNED GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND I-55 SOUTHBOUND RAMPS	F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:40	CHECKED MJM	REVISED -			*	(99-1HB-1) R-1	WILL	1508	792
	PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -		SCALE: AS SHOWN	SHEET NO.	OF	SHEETS	STA.	TO STA.
						* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				

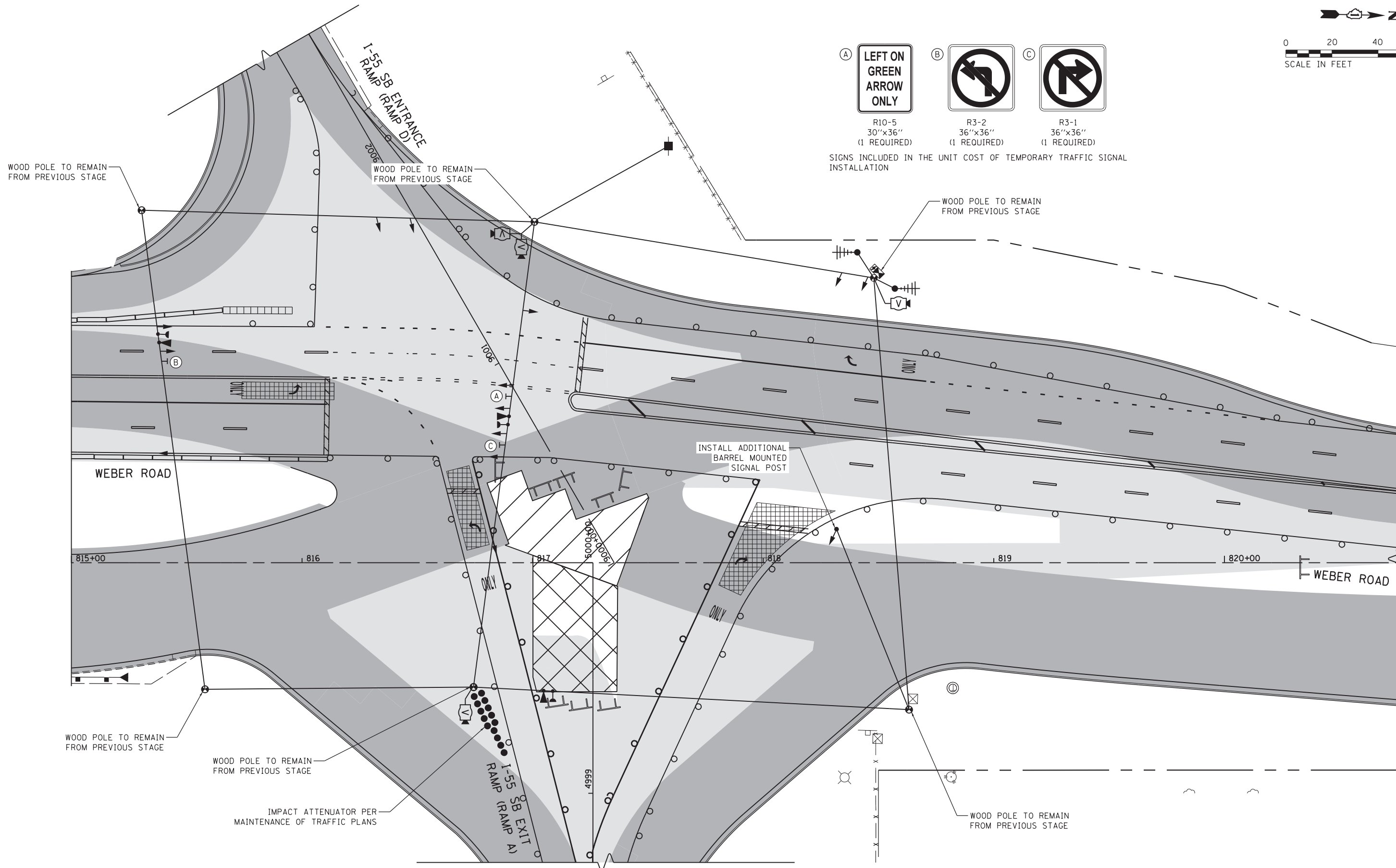


(A) LEFT ON GREEN ARROW ONLY
R10-5
30"x36"
(1 REQUIRED)

(B) [Symbol]
R3-2
36"x36"
(1 REQUIRED)

(C) [Symbol]
R3-1
36"x36"
(1 REQUIRED)

SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION



STAGE 2A, 2B AND 2C

STAGE 2A, 2B AND 2C

**TS 354
ECON 132**

FILE NAME = D:\60X10\eh\150305.dgn

KNIGHT
Engineers & Architects

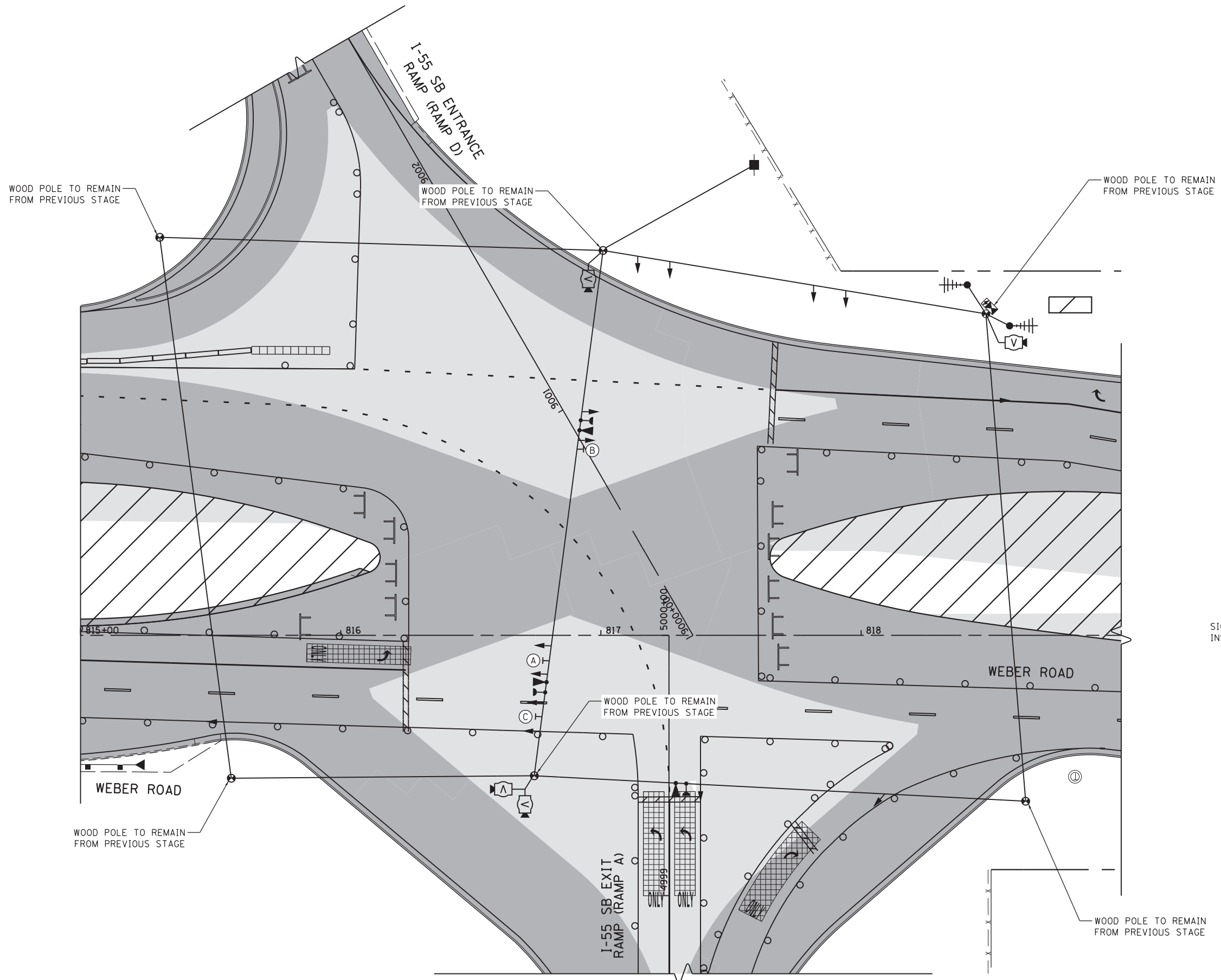
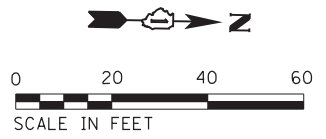
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PLOT SCALE = 1:40	DRAWN GR	REVISED -
PLOT DATE = 6/8/2017	CHECKED MJM	REVISED -
	DATE 06/16/17	REVISED -


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 SOUTHBOUND RAMPS**


SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	793
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



- 

R10-5
30"x36"
(1 REQUIRED)
 - 

R3-2
36"x36"
(1 REQUIRED)
 - 

R3-1
36"x36"
(1 REQUIRED)
- SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

STAGE 3

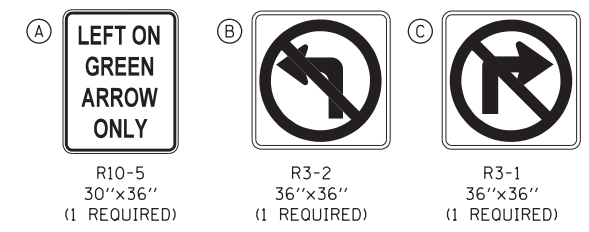
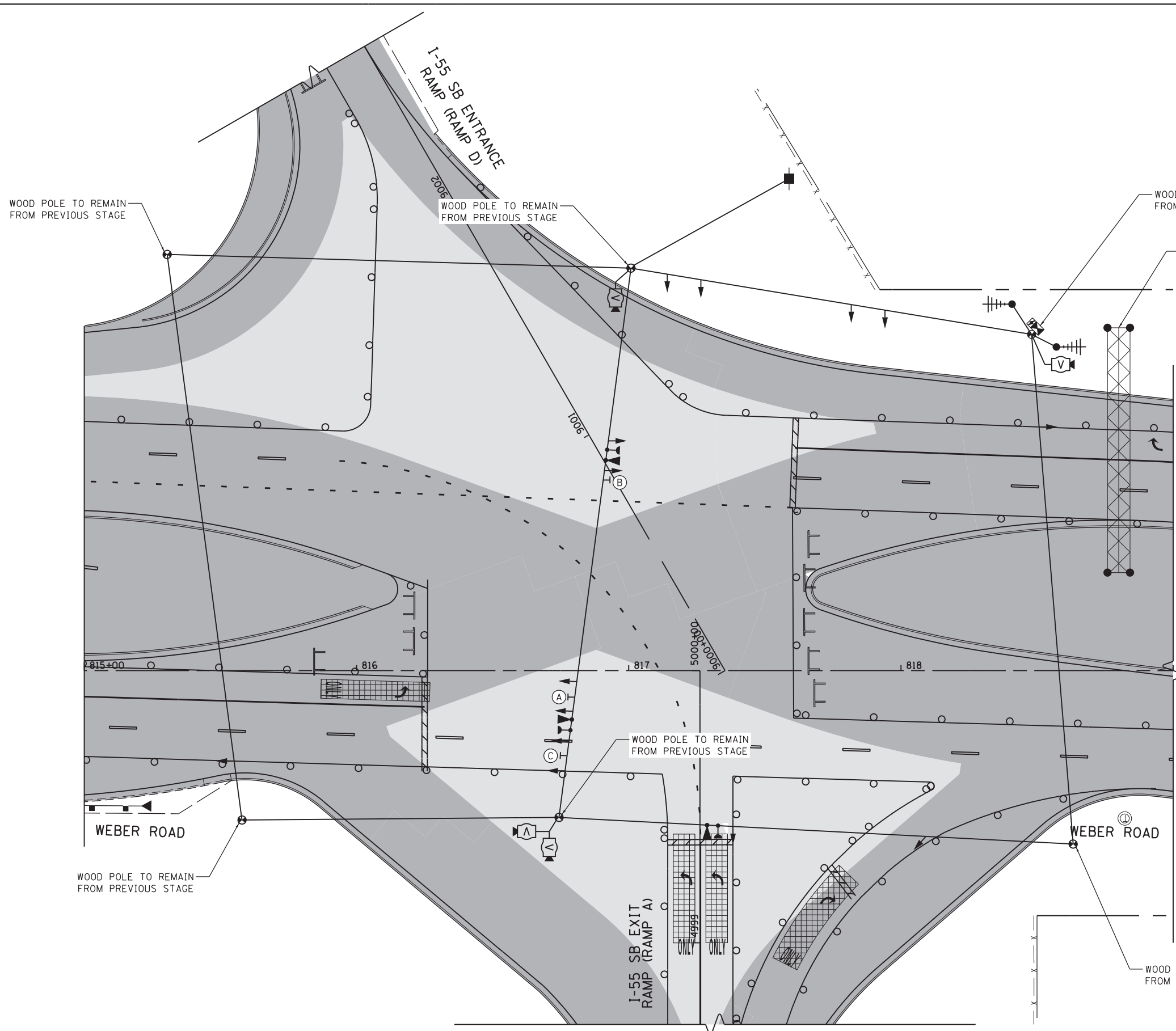
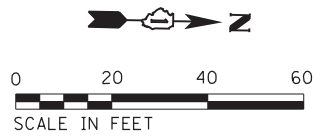
STAGE 3

TS 354
ECON 132

FILE NAME = D:\60X10\eh\150307.dgn

KNIGHT Engineers & Architects	USER NAME = gr01	DESIGNED GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN WEBER ROAD AND I-55 SOUTHBOUND RAMPS	F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:40	CHECKED MJM	REVISED -			*	(99-1HB-1) R-1	WILL	1508	794
	PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -			SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60X10		

* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT



SIGNS INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION

STAGE 3A, 3B AND 3C

STAGE 3A, 3B AND 3C

**TS 354
ECON 132**

FILE NAME = D:\60X10-eh-t-150308.dgn

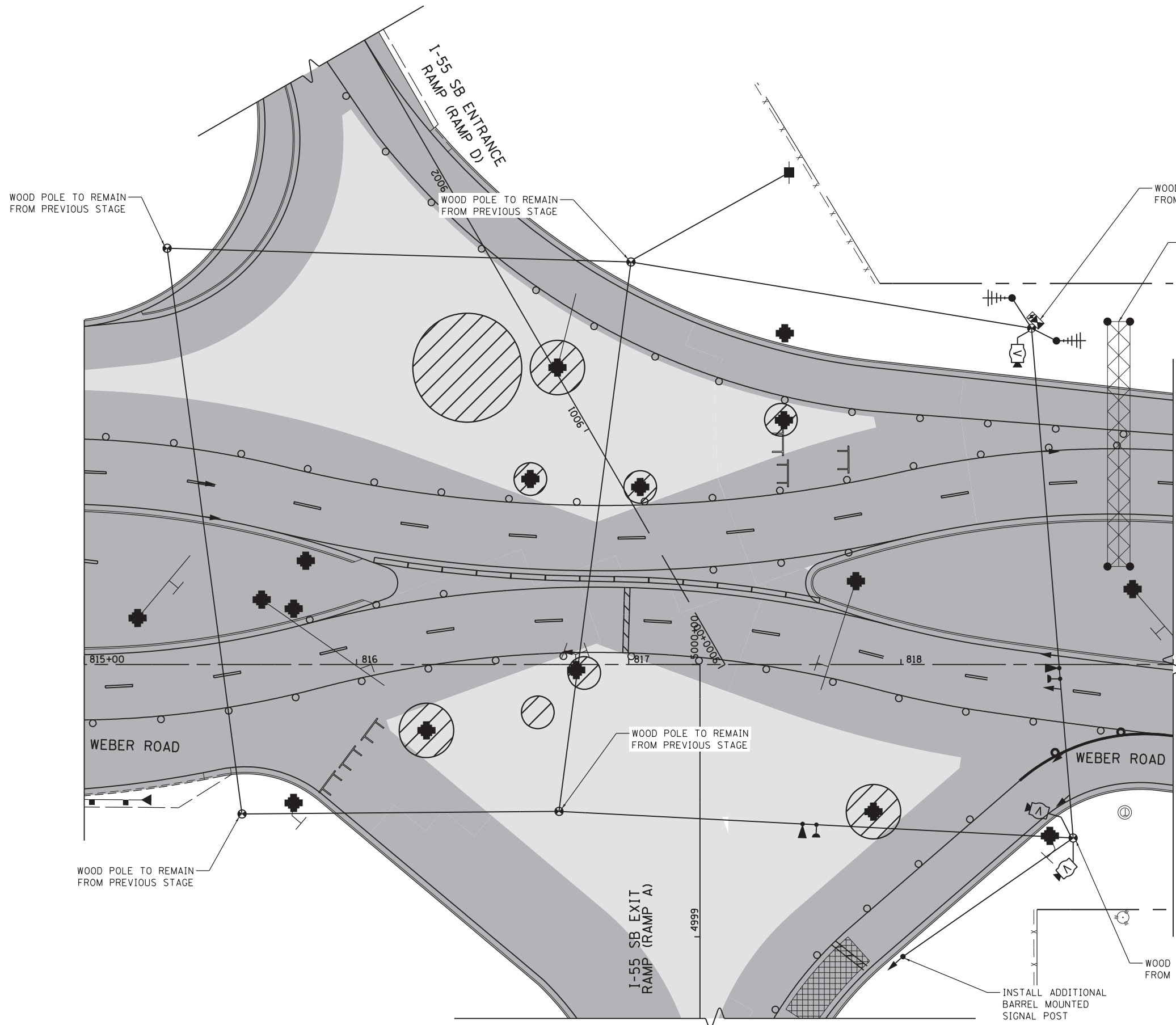
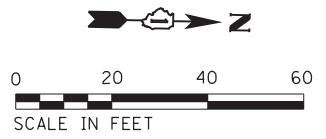
KNIGHT Engineers & Architects	USER NAME = gr01	DESIGNED GR	REVISED -
	PLOT SCALE = 1:40	DRAWN GR	REVISED -
	PLOT DATE = 6/8/2017	CHECKED MJM	REVISED -
		DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 SOUTHBOUND RAMPS**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	795
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				



NOTES:

1. TEMPORARY TRAFFIC SIGNALS SHALL NOT BE REMOVED UNTIL PROPOSED TRAFFIC SIGNAL AND INTERCONNECT ARE IN OPERATION AND WRITTEN APPROVAL FOR REMOVAL OF TEMPORARY TRAFFIC SIGNAL INSTALLATION IS PROVIDED BY THE ENGINEER.
2. MAINTAIN TEMPORARY WIRELESS INTERCONNECT IN STAGE 4 ALONG WEBER ROAD.
3. TESTING OF PERMANENT TRAFFIC SIGNALS AND INTERCONNECT AT THE DDI SHALL BE PERFORMED IN STAGE 4 PER SPECIAL PROVISION FOR DIVERGING DIAMOND INTERCHANGE, FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET, SPECIAL. PERMANENT TRAFFIC SIGNAL AT THIS INTERSECTION AND PERMANENT INTERCONNECT ALONG WEBER ROAD SHALL BE TESTED IN STAGE 4 AND READY FOR ACTIVATION PRIOR TO STAGE 4A. IN STAGE 4A AND 4B, WHEN THE DDI TRAFFIC CONFIGURATION IS IN EFFECT, INTERSECTIONS AT NORMANTOWN, RAMP C/B, RAMP D/A, REMINGTON/WINDHAM AND RODEO/REMINGTON SHALL OPERATE WITH THE PERMANENT TRAFFIC SIGNALS AND INTERCONNECT. SEE PERMANENT TRAFFIC SIGNAL PLANS AND MAINTENANCE OF TRAFFIC PLANS.

STAGE 4

STAGE 4

TS 354
ECON 132

FILE NAME = D:\60X10-eh-t-150309.dgn

KNIGHT Engineers & Architects	USER NAME = gr01	DESIGNED GR	REVISED -
	PLOT SCALE = 1:40	DRAWN GR	REVISED -
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		DATE 06/16/17	REVISED -

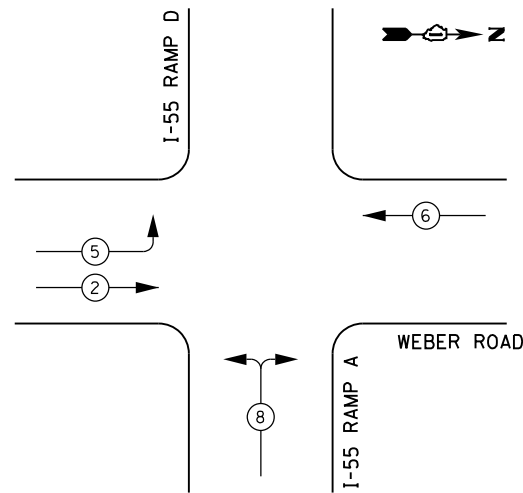
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
WEBER ROAD AND I-55 SOUTHBOUND RAMP**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

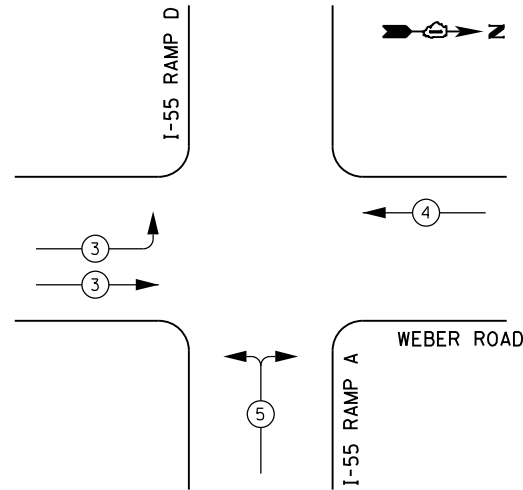
F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	796
CONTRACT NO. 60X10				
* FAI 55, FAP 856 [ILLINOIS] FED. AID PROJECT				

TEMPORARY CONTROLLER SEQUENCE



- LEGEND:**
- ← (⊛) — PROTECTED PHASE
 - ← - (⊛) - PROTECTED/PERMITTED PHASE
 - ← (⊛) → PEDESTRIAN PHASE
 - ← (⊛) OL OVERLAP

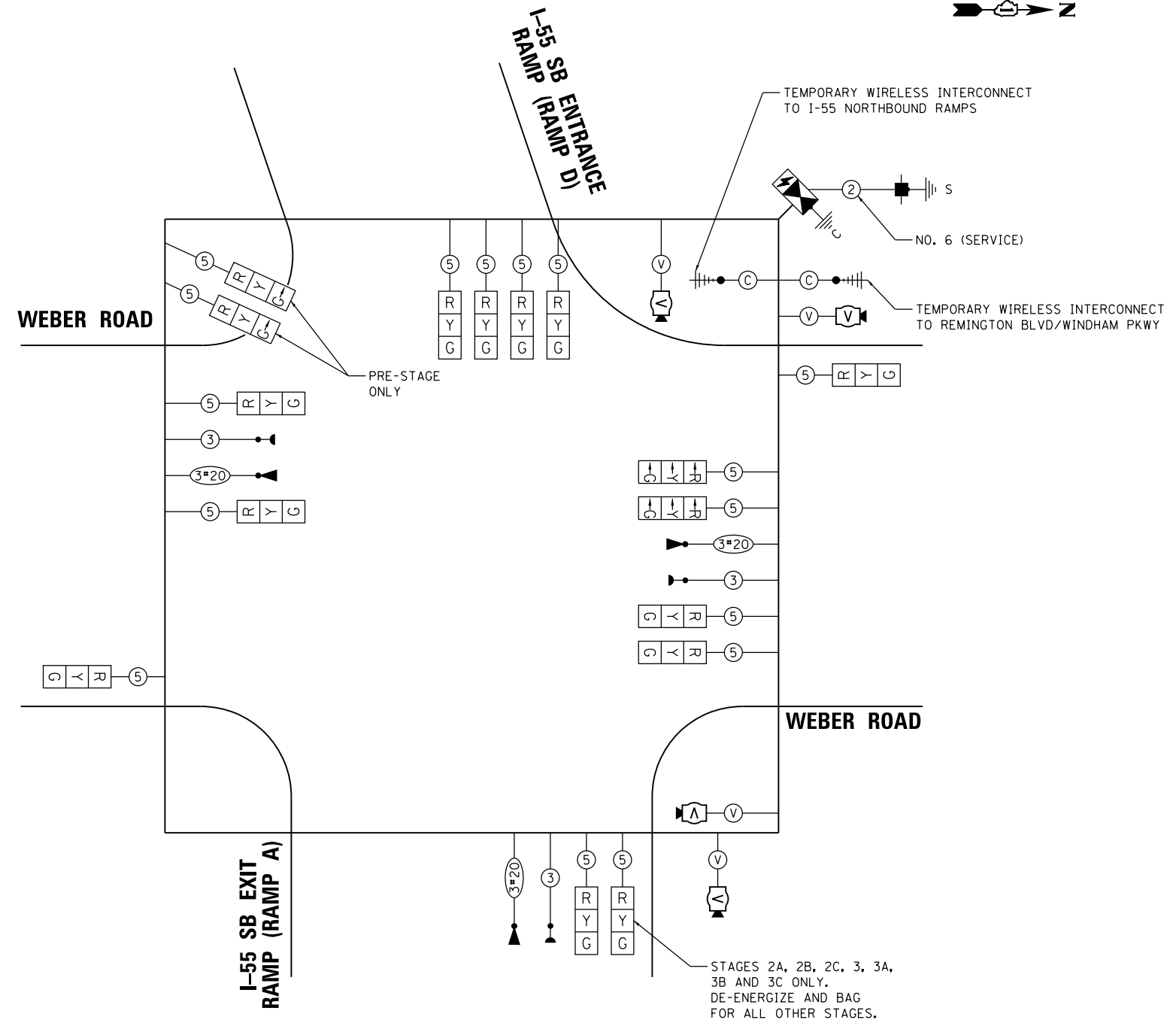
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PERMISSIVE ARROW	-	10	10	--
PED. SIGNAL	-	20	100	--
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	-	120	50	--
LUMINAIRE	-	-	-	--
TOTAL =				453.5

ENERGY COSTS TO:
 VILLAGE OF ROMEOVILLE
 1050 W ROMEO ROAD
 ROMEOVILLE, ILLINOIS 60446
 ENERGY SUPPLY: CONTACT: JOE LEPE
 PHONE: (815) 724-5569
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____



**TEMPORARY CABLE PLAN
 PRE-STAGE, STAGE 1, 1A, 1B, 1C, 1D,
 2, 2A, 2B, 2C, 3, 3A, 3B, AND 3C**

**PRE-STAGE, STAGE 1, 1A, 1B, 1C, 1D,
 2, 2A, 2B, 2C, 3, 3A, 3B, AND 3C**

FILE NAME = D:\60X10\eh\159321.dgn

KNIGHT
 Engineers & Architects

DESIGNED GR	REVISED -
DRAWN GR	REVISED -
CHECKED MJM	REVISED -
DATE 08/04/17	REVISED -

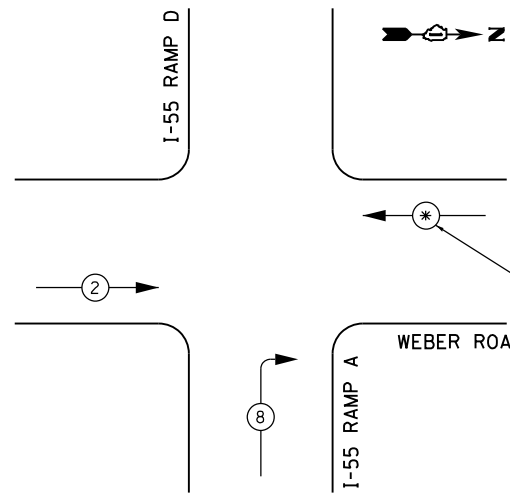
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
 AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 WEBER ROAD AND I-55 SOUTHBOUND RAMPS**

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	797
CONTRACT NO. 60X10			* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT	

**TS 354
 ECON 132**

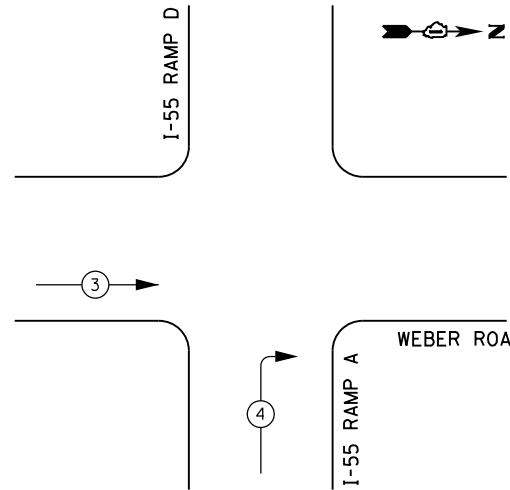
TEMPORARY CONTROLLER SEQUENCE



- LEGEND:**
- ← * → PROTECTED PHASE
 - ← - * - → PROTECTED/PERMITTED PHASE
 - ← * → PEDESTRIAN PHASE
 - ← * OL → OVERLAP

SOUTHBOUND MOVEMENT SHALL DWELL IN GREEN PHASE FOR THE COMPLETE DURATION OF CYCLE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



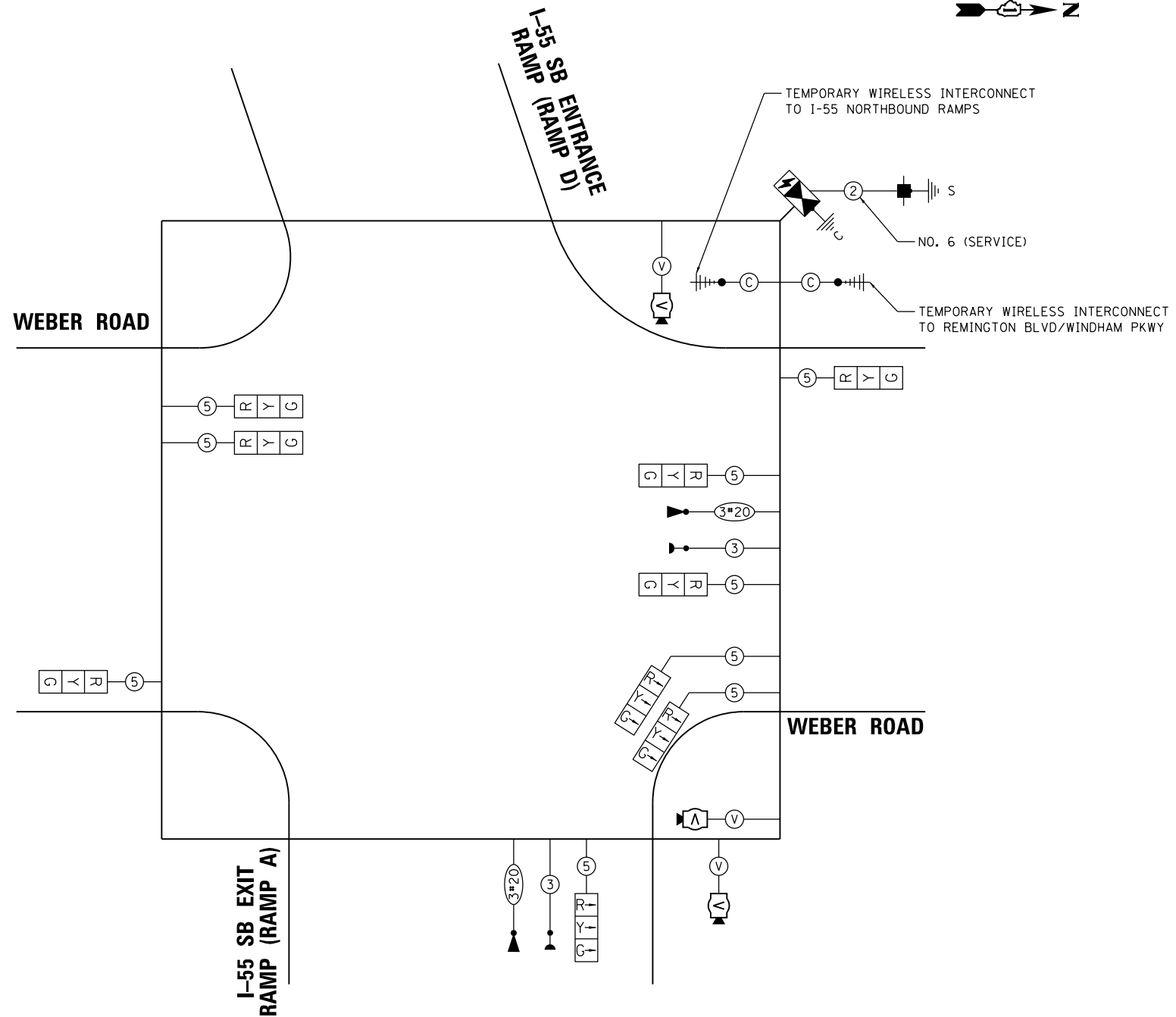
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	-	10	10	--
PED. SIGNAL	-	20	100	--
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	-	120	50	--
LUMINAIRE	-	-	-	--
TOTAL =				382.1

ENERGY COSTS TO:

VILLAGE OF ROMEOVILLE
1050 W ROMEO ROAD
ROMEOVILLE, ILLINOIS 60446

ENERGY SUPPLY: CONTACT: JOE LEPE
PHONE: (815) 724-5569
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: _____



**TEMPORARY CABLE PLAN
STAGE 4**

FILE NAME = D:\60X10\eh\158322.mxd

KNIGHT
Engineers & Architects

DESIGNED GR	REVISED -
DRAWN GR	REVISED -
CHECKED MJM	REVISED -
DATE 08/04/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
WEBER ROAD AND I-55 SOUTHBOUND RAMPS**

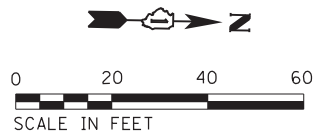
F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	797A
CONTRACT NO. 60X10			* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT	

**TS 354
ECON 132**

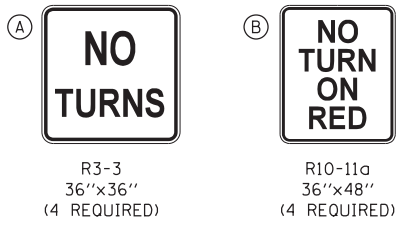
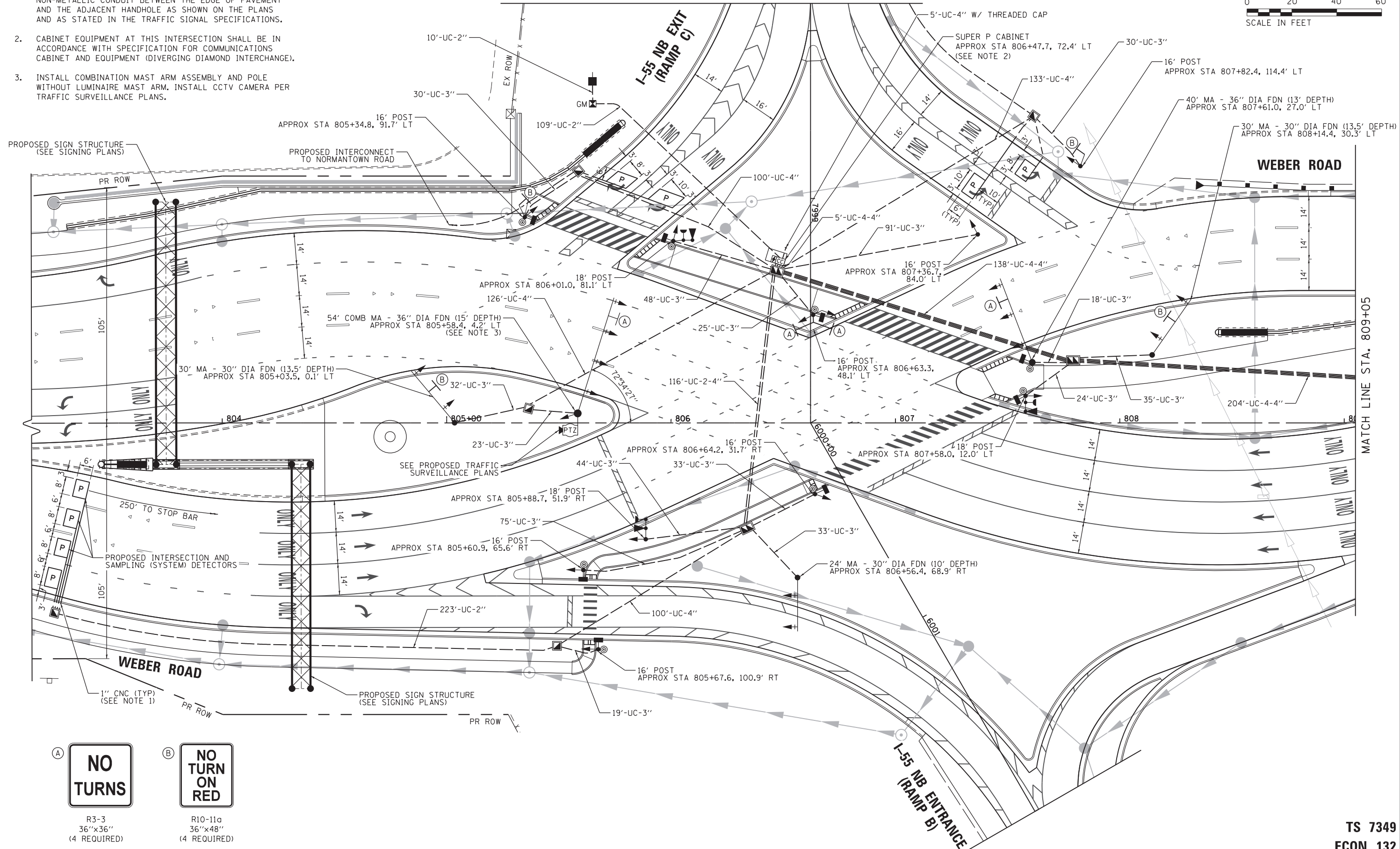
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

NOTES:

1. 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 AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. CABINET EQUIPMENT AT THIS INTERSECTION SHALL BE IN ACCORDANCE WITH SPECIFICATION FOR COMMUNICATIONS CABINET AND EQUIPMENT (DIVERGING DIAMOND INTERCHANGE).
3. INSTALL COMBINATION MAST ARM ASSEMBLY AND POLE WITHOUT LUMINAIRE MAST ARM. INSTALL CCTV CAMERA PER TRAFFIC SURVEILLANCE PLANS.



MATCH LINE STA. 7998+13



MATCH LINE STA. 809+05

FILE NAME = D:\60X10-eh-t-151200.dgn

KNIGHT
Engineers & Architects

USER NAME = gr01	DESIGNED GR	REVISED -
PLOT SCALE = 1:40	DRAWN GR	REVISED -
PLOT DATE = 6/8/2017	CHECKED MJM	REVISED -
	DATE 06/16/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
WEBER ROAD AND I-55 NORTHBOUND RAMP

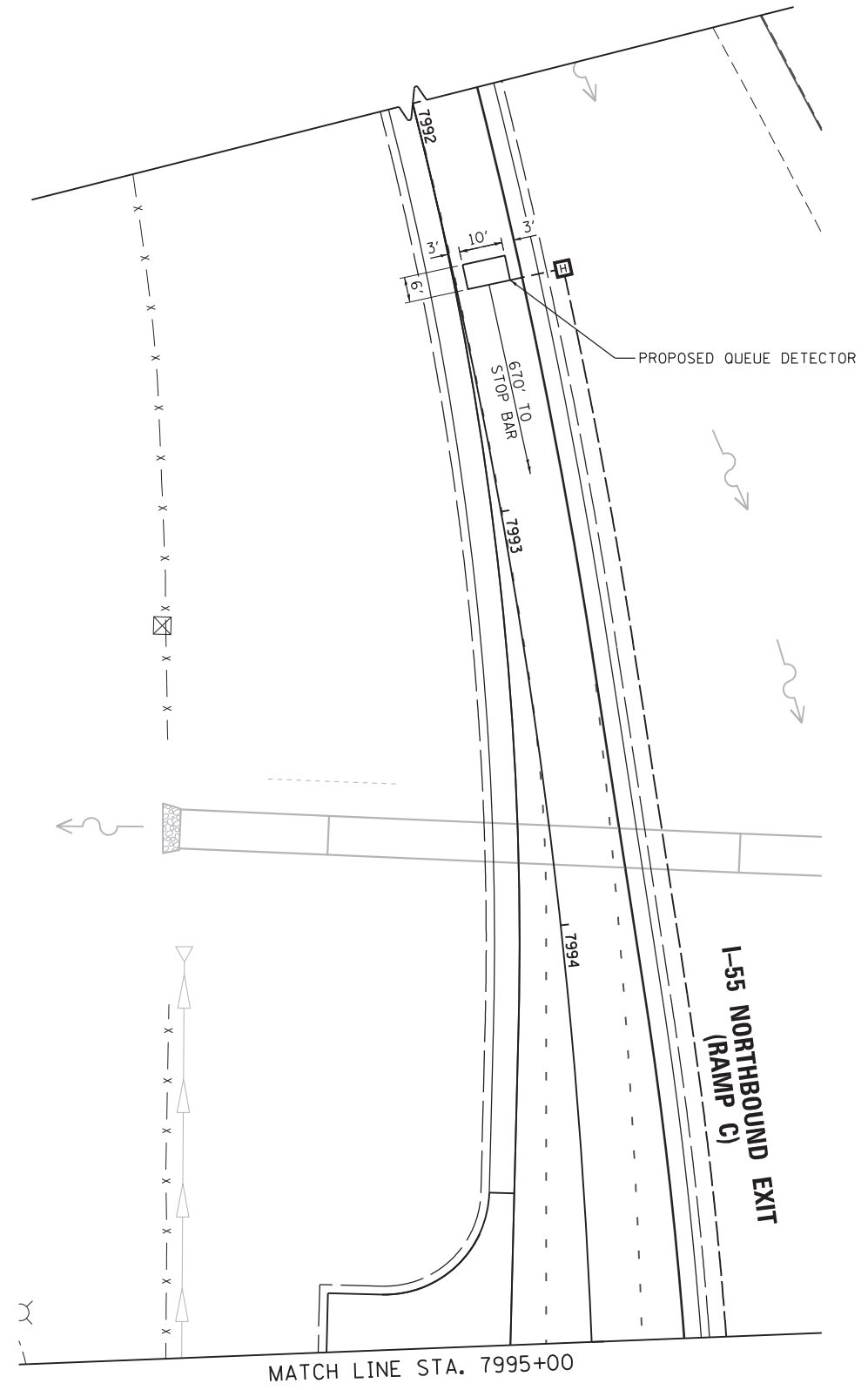
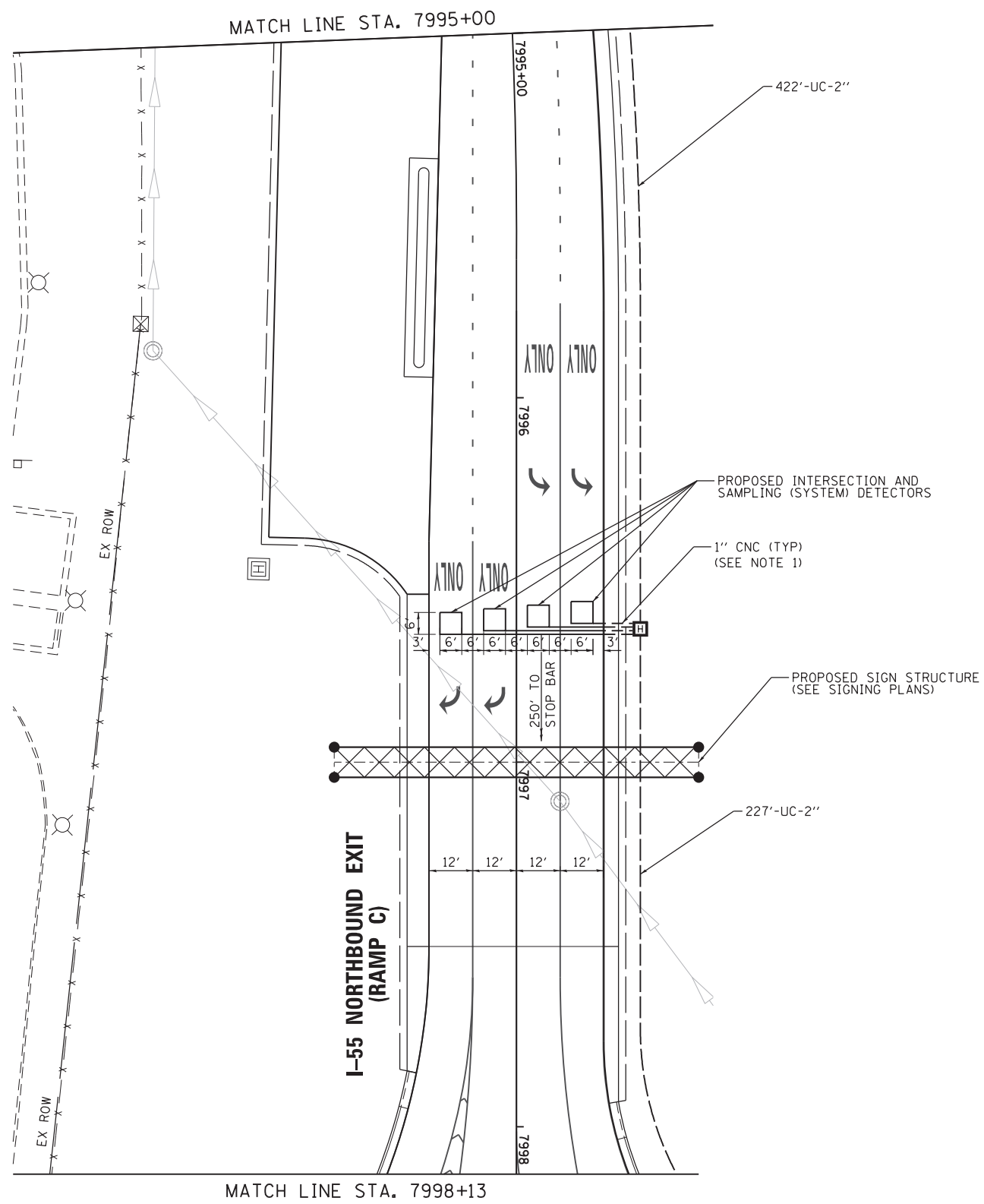
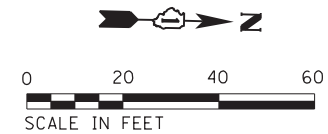
F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	798
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

TS 7349
ECON 132

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

NOTES:

1. 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 AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



FILE NAME = D:\60X10\eh\151201.dgn



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	DRAWN GR	REVISED -
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PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

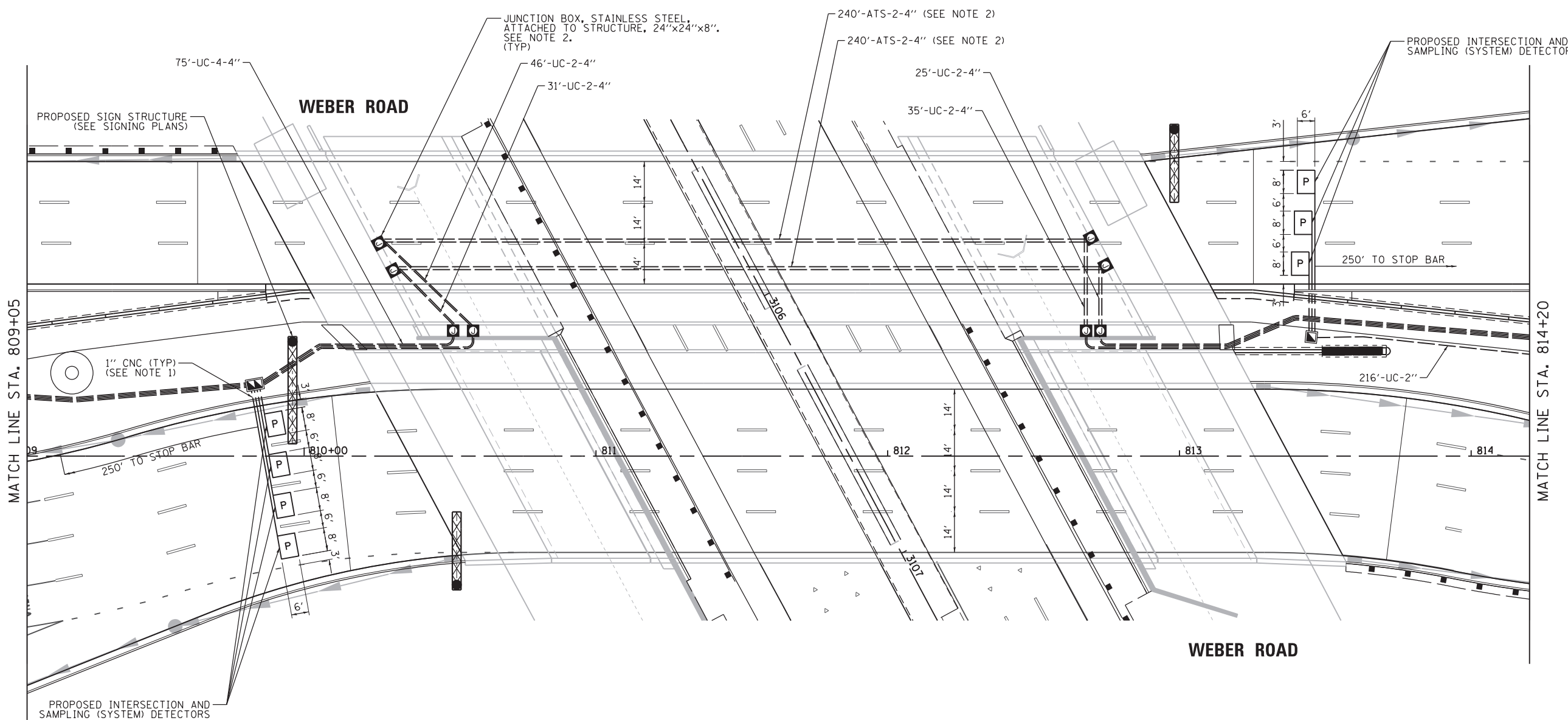
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
WEBER ROAD AND I-55 NORTHBOUND RAMP**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.I./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	799
CONTRACT NO. 60X10				
* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT				

**TS 7349
ECON 132**



NOTES:

1. 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 AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. SEE "TRAFFIC SIGNALS CONDUIT ATTACHED TO STRUCTURE DETAIL".

FILE NAME = D:\60X10-eh-t-151202.dgn



USER NAME = gr01	DESIGNED GR	REVISED -
DRAWN GR	REVISED -	
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PLOT DATE = 6/8/2017	DATE 06/16/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
WEBER ROAD AND I-55 NORTHBOUND AND SOUTHBOUND RAMPS**

F.A./P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(99-1HB-1) R-1	WILL	1508	800
CONTRACT NO. 60X10			* FAI 55, FAP 856 ILLINOIS FED. AID PROJECT	

**TS 7349
ECON 132**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.