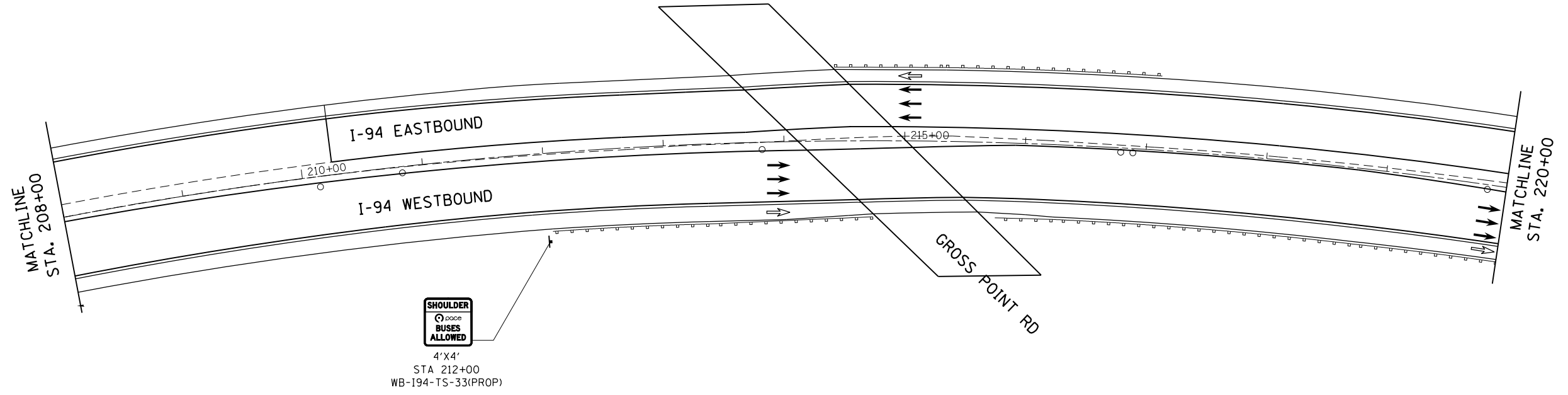
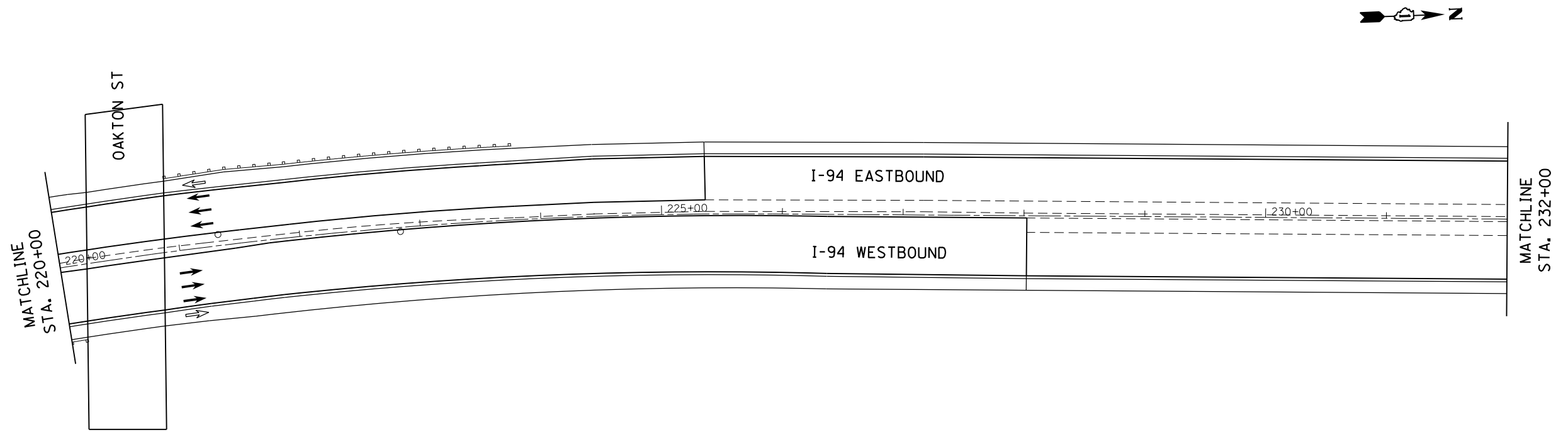


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	ALIGNMENT CHECKED		
	GRADE CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	FILE NO.		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	FILE NO.		



HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 208+00 TO STA. 232+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	101
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:



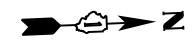
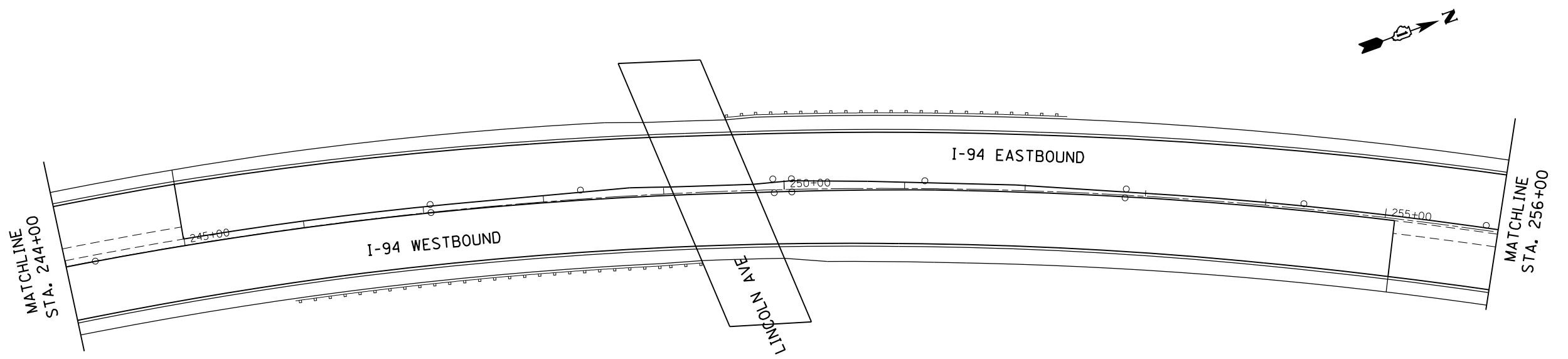
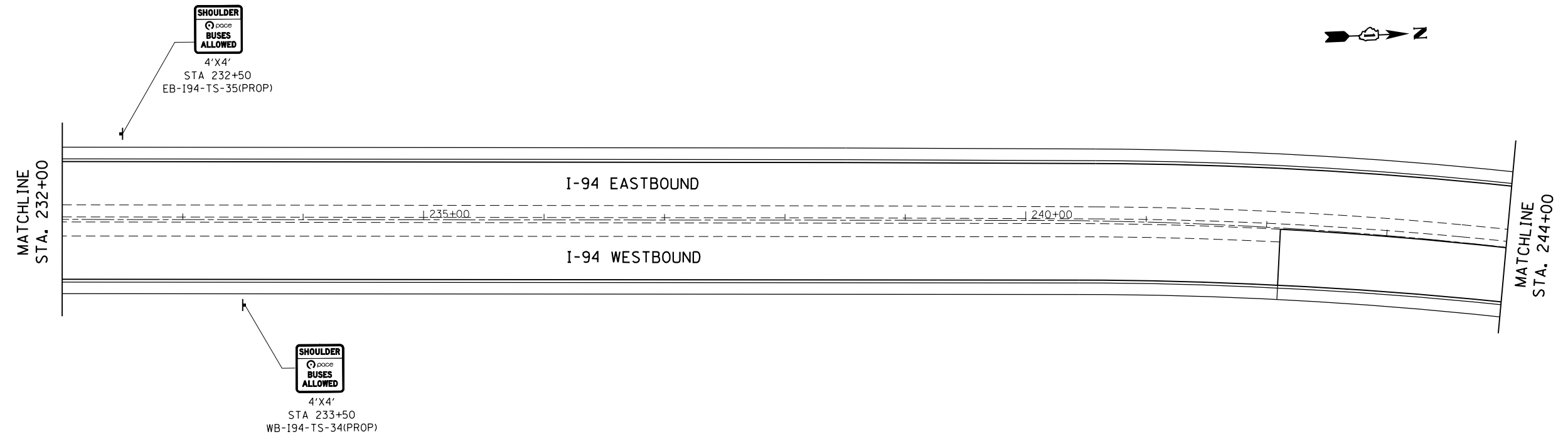
USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

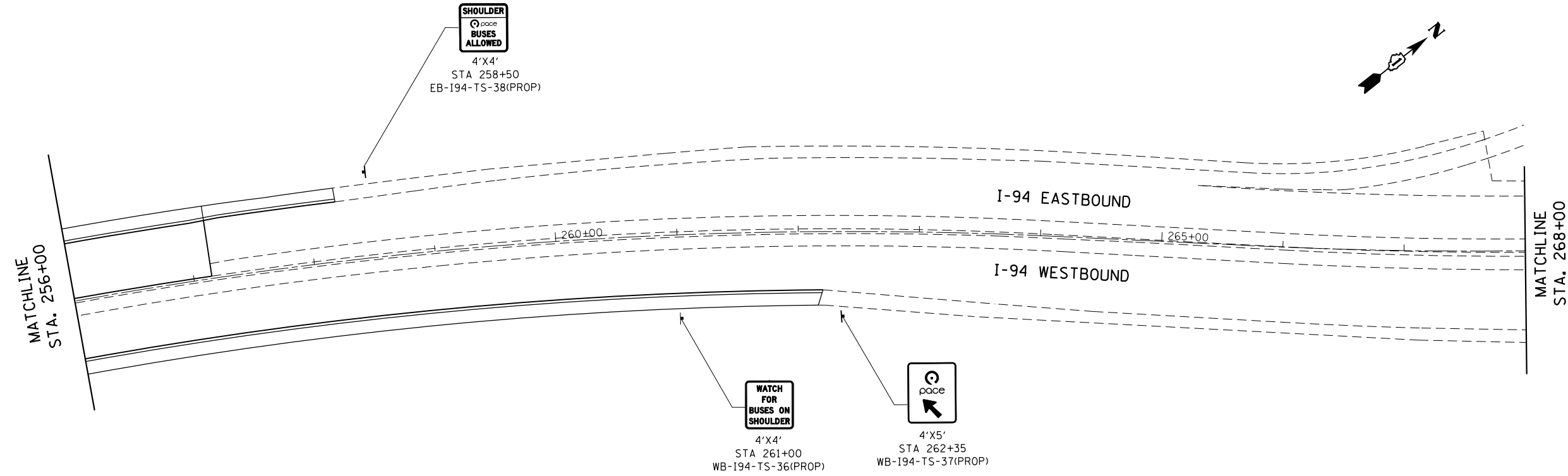
**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 232+00 TO STA. 256+00

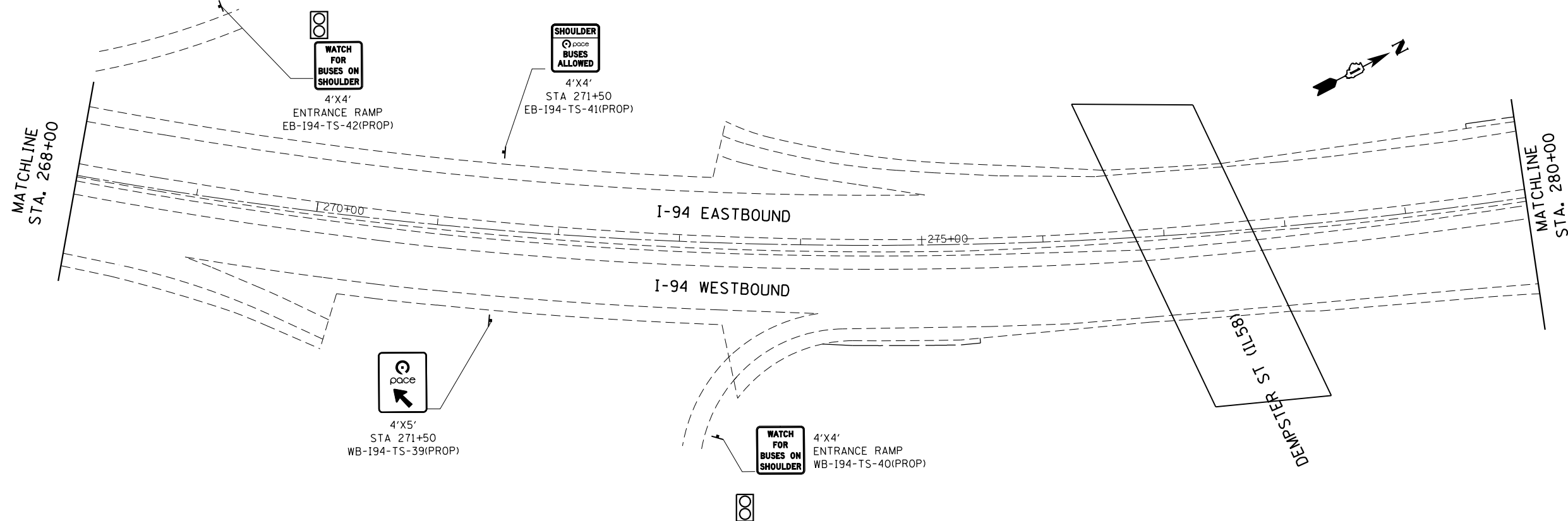
F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	102
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		



HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

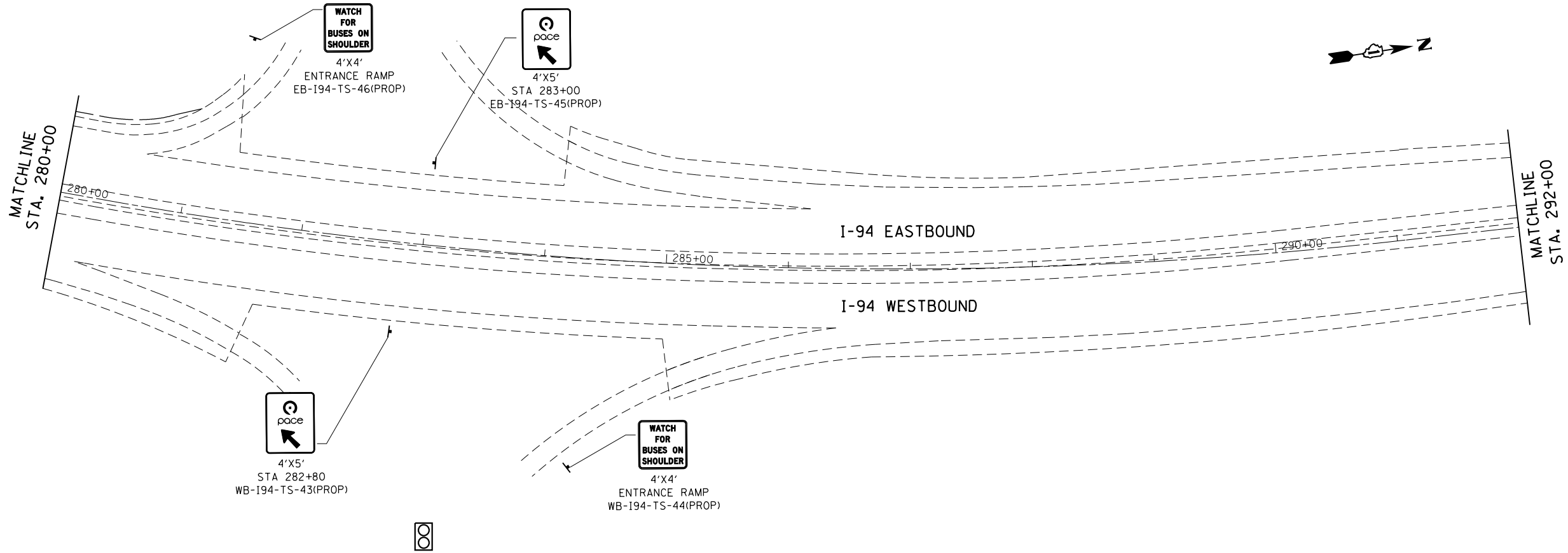
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

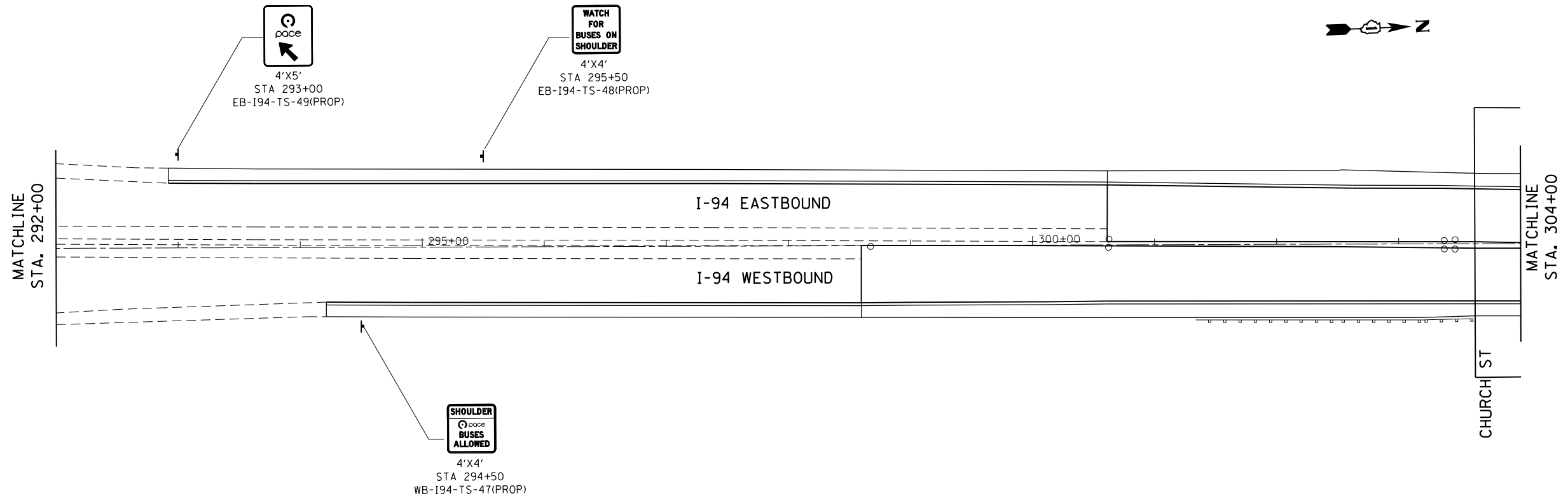
SCALE: 1"=50' SHEET NO. OF SHEETS STA. 256+00 TO STA. 280+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	103
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT		
	CHECKED		
	FILE NAME		
	FILE NO.		



PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE		
	NOTATIONS		
	CHKD		



HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:

2650046\_09\_sht+sign+2.dgn  
 10/27/2016 10:30 AM  
 1030 194\_SIGNING\_TBL.rvt

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 280+00 TO STA. 304+00

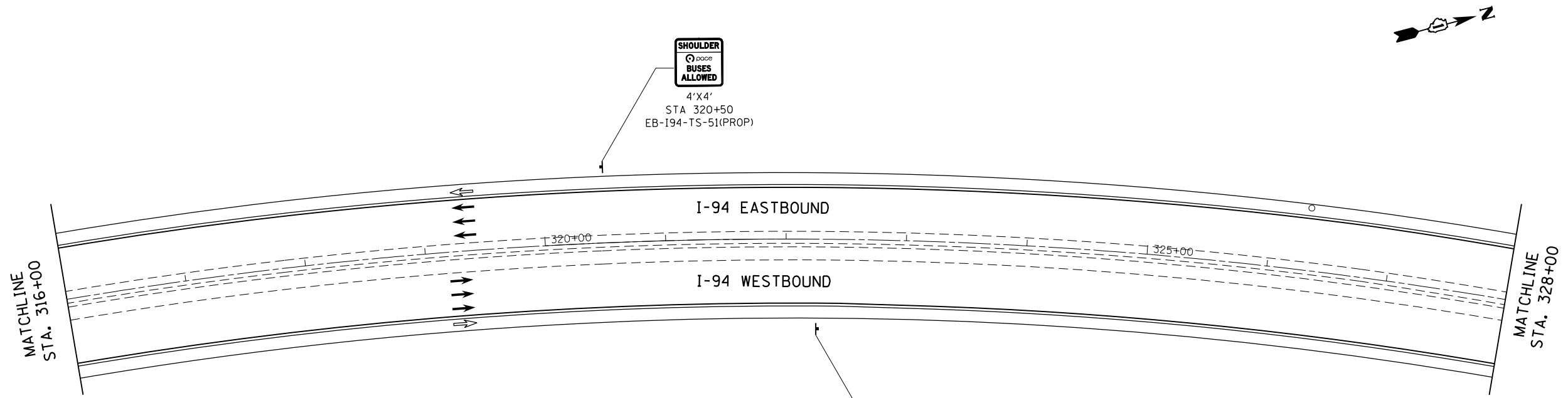
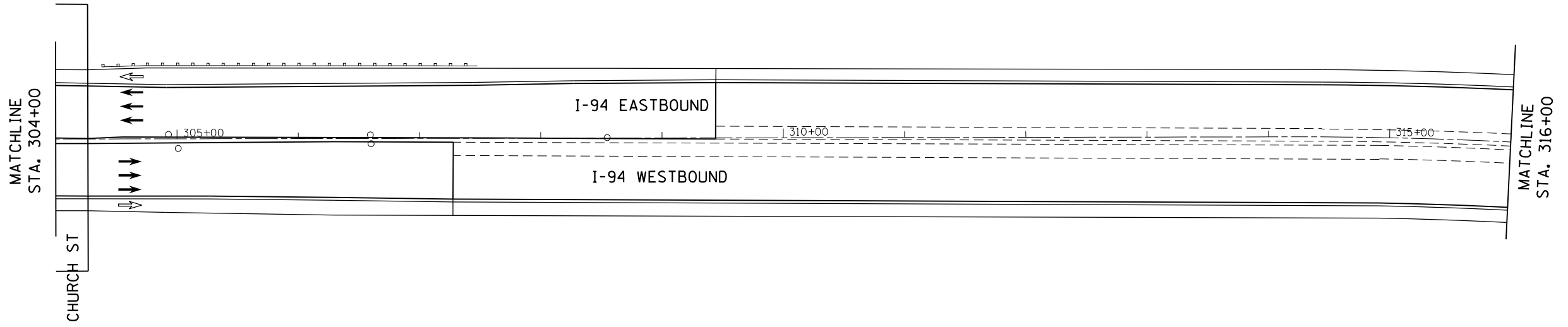
F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	104
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	ROAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	ROAD FILE NAME		
	NO.		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

6650046\_09\_sht+sign+3.dgn  
 4030 I94 SIGNING TEL.P4  
**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515



USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED SIGNING PLANS</b>			
<b>EDENS EXPRESSWAY (I-94)</b>			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	TO STA. 328+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	105
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	CARD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:

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 10/27/2016 10:30 AM  
 1030 194 SIGNING TEL.P4

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

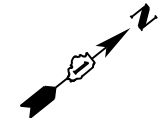
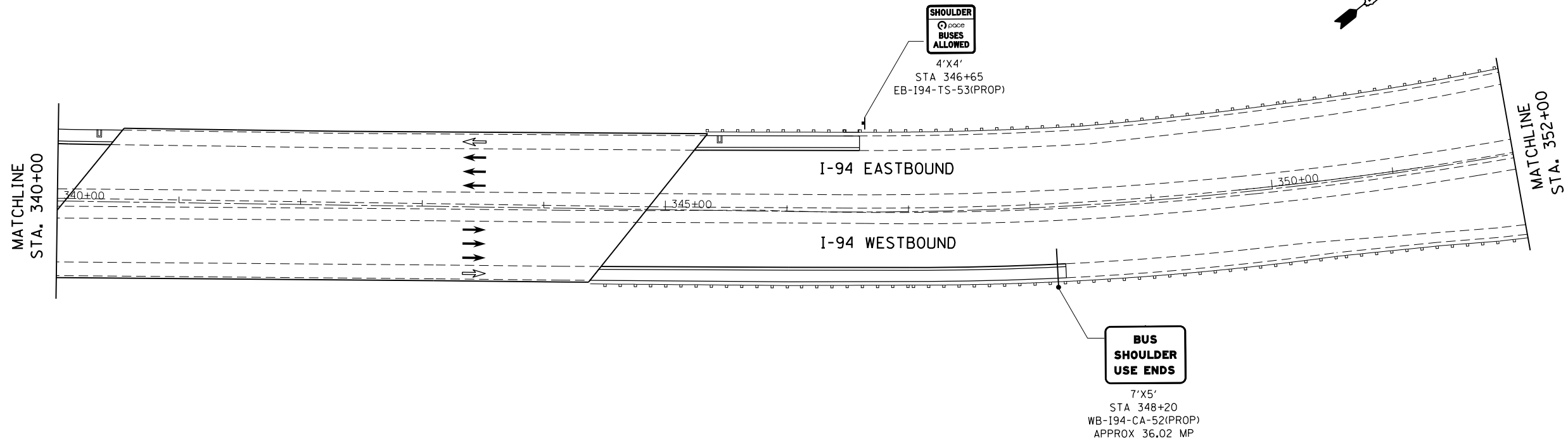
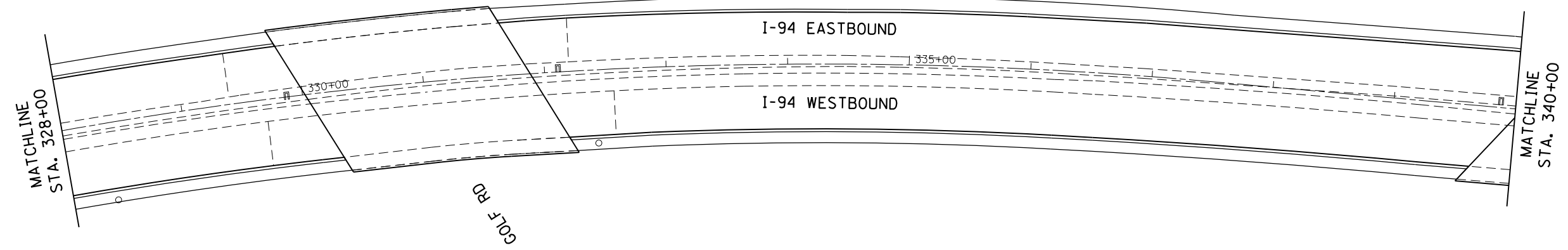
USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 328+00 TO STA. 352+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	106
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE		
	NOTATIS CHKD		
	NO.		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

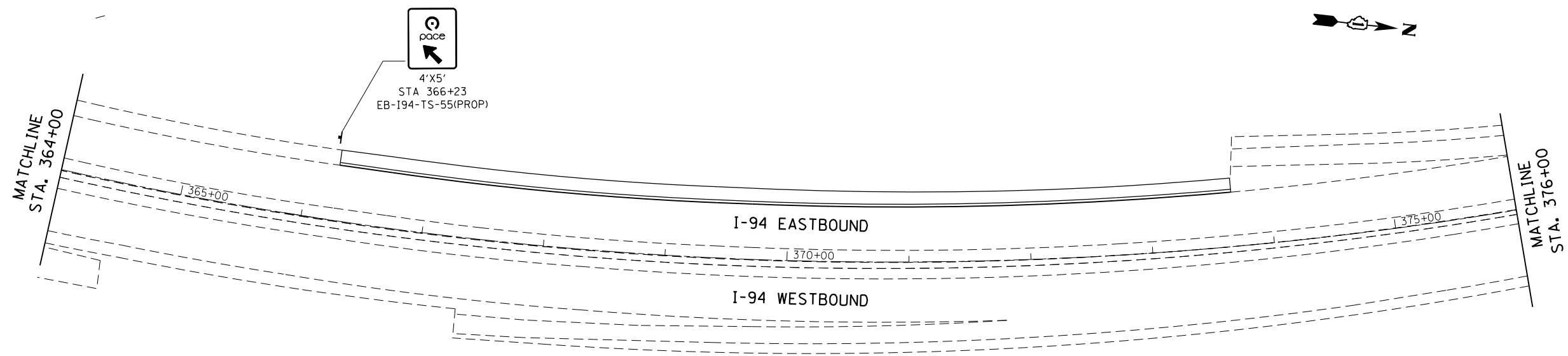
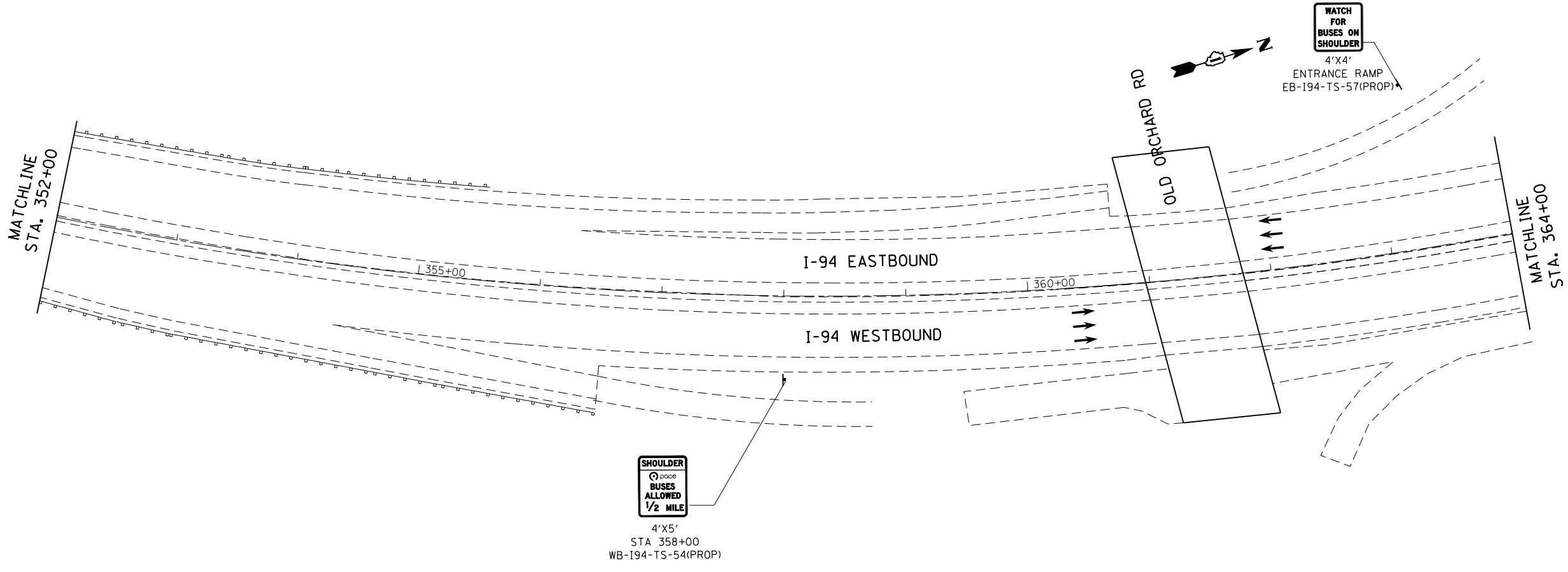
**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
DRAWN - RA	REVISED -	
CHECKED - AS	REVISED -	
DATE - 10/24/2016	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED SIGNING PLANS EDENS EXPRESSWAY (I-94)</b>			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	TO STA. 376+00

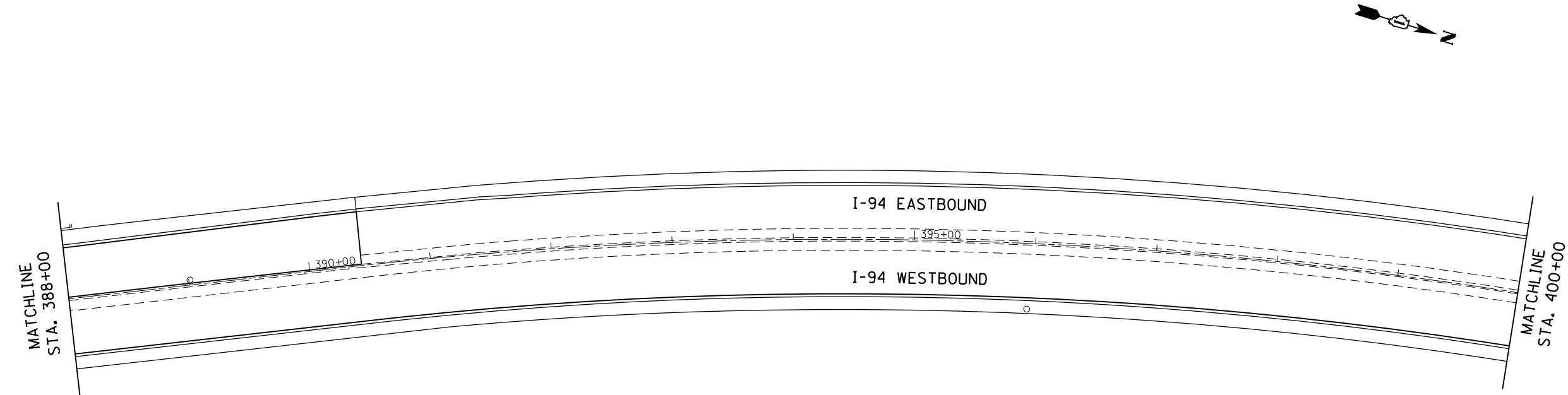
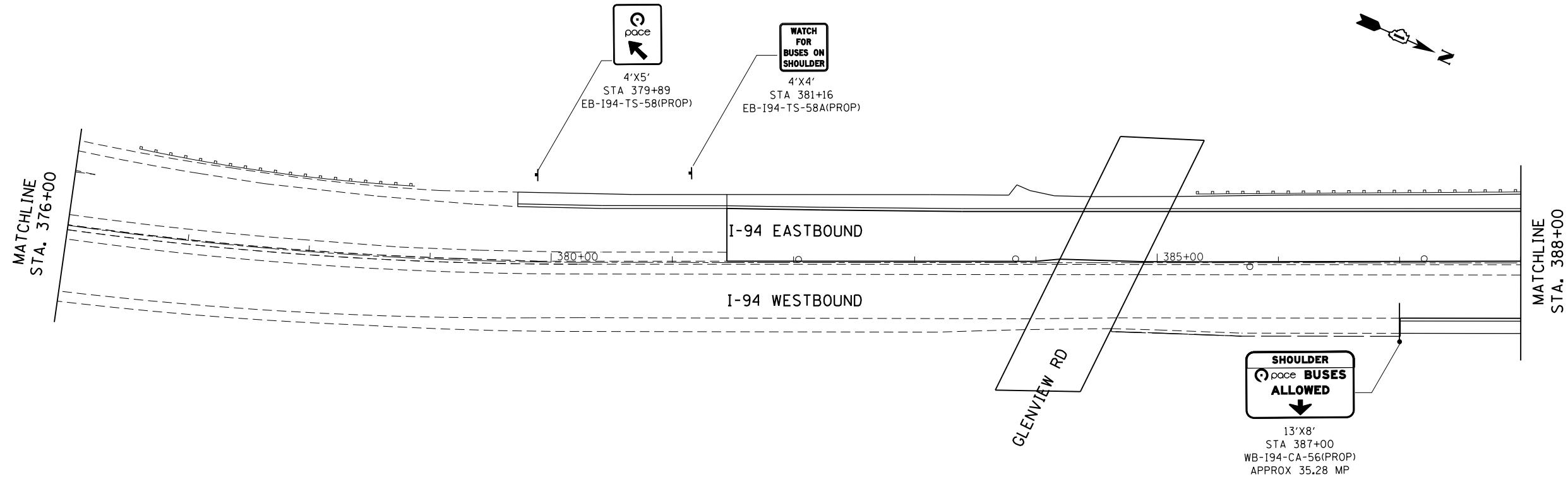
F.A.I R.T.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	107
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



6650046\_09\_sht+sign-5.dgn  
 10/20/16 10:30 AM  
 10/20/16 10:30 AM

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		
	FILE NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	FILE NO.		



HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

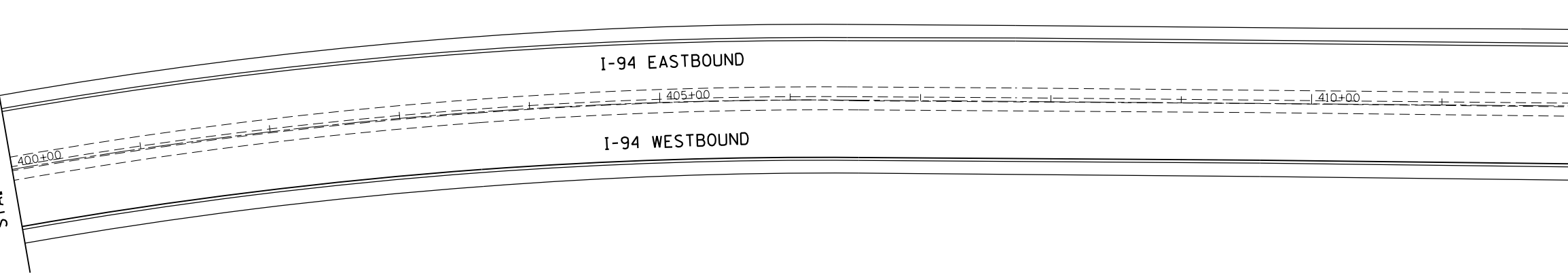
SCALE: 1"=50' SHEET NO. OF SHEETS STA. 376+00 TO STA. 400+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	108
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	ASPHALT PAVED		
	FILE NAME		

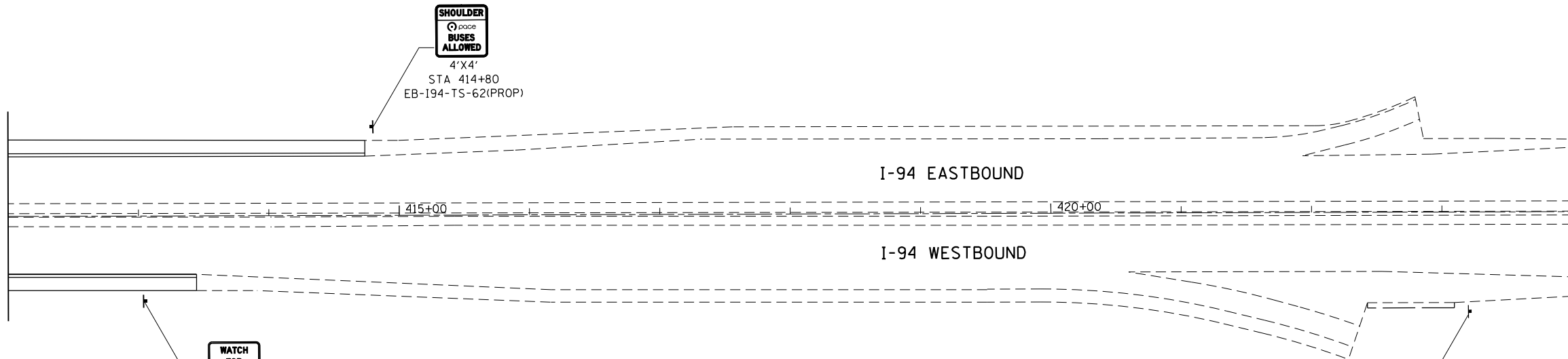
MATCHLINE  
STA. 400+00



MATCHLINE  
STA. 412+00

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

MATCHLINE  
STA. 412+00



MATCHLINE  
STA. 424+00

HRG PROJECT NO.:  
HRG PROJ CONTACT:  
FILE NUMBER:  
PEN TABLE:

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10/27/2016 10:30:19 AM  
1030 I94 SIGNING TEL.DWG

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
5413 Walnut Avenue, Ste 2  
Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
EDENS EXPRESSWAY (I-94)**

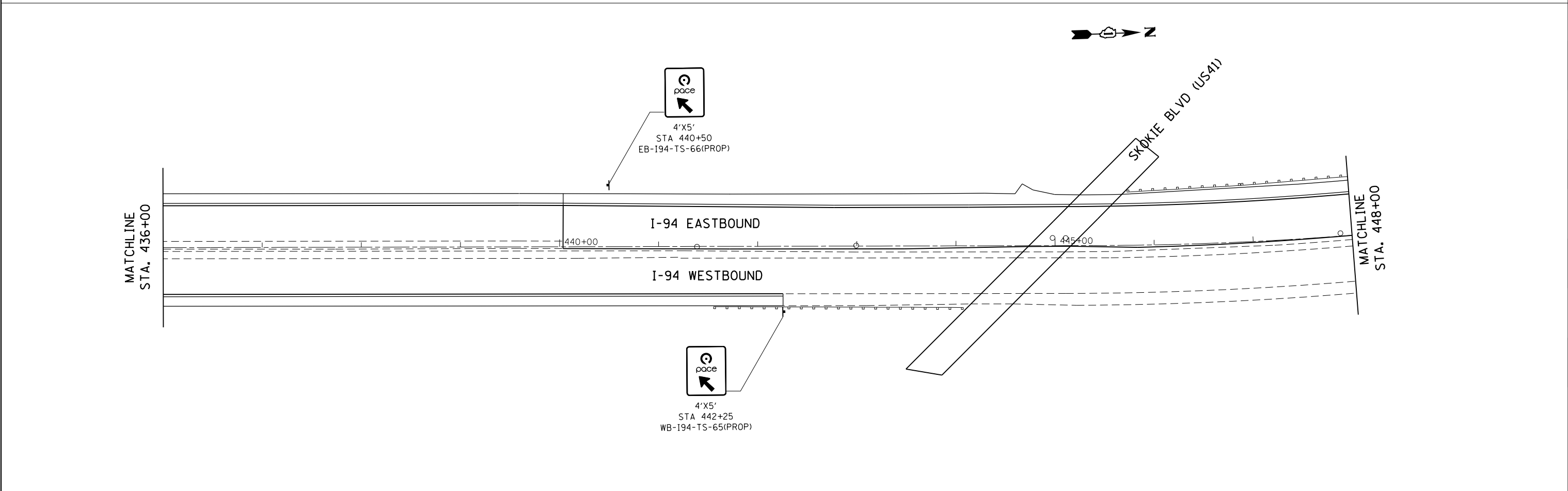
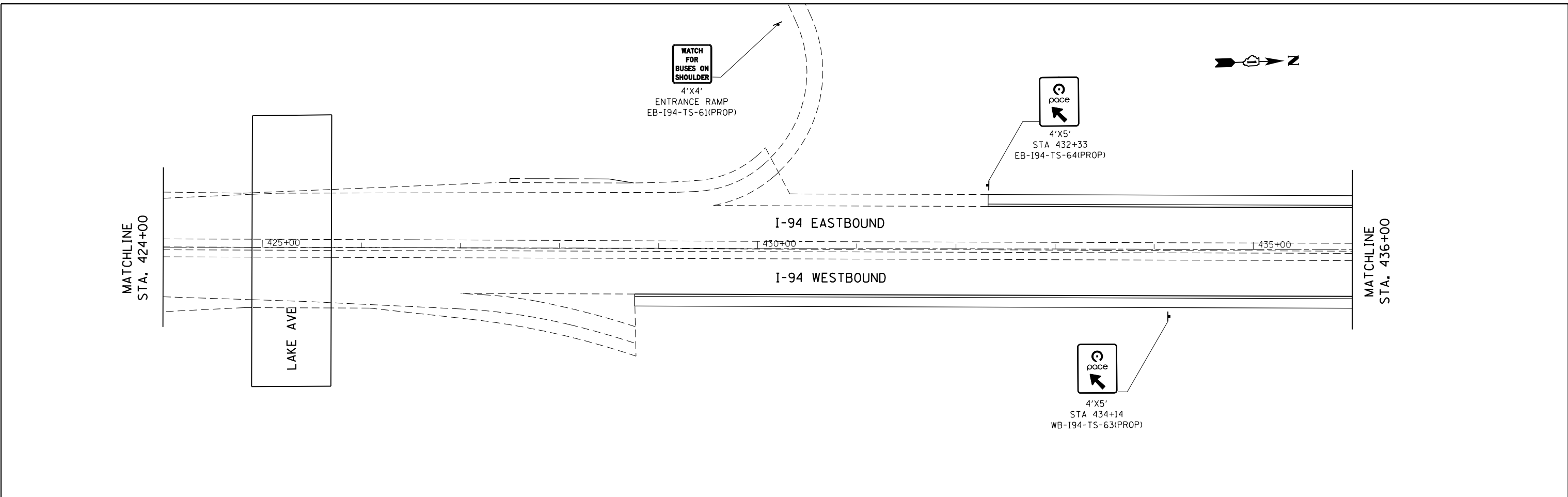
SCALE: 1"=50' SHEET NO. OF SHEETS STA. 400+00 TO STA. 424+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	109
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	ASPHALT PAVED		
	PAV. FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:



**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50'    SHEET NO.    OF    SHEETS    STA. 424+00    TO STA. 448+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	110
CONTRACT NO. 62C10				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

6650046\_09\_sht-sign-9.dgn  
 10/27/2016 10:30 AM  
 4030 I94 SIGNING TEL.PEN

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

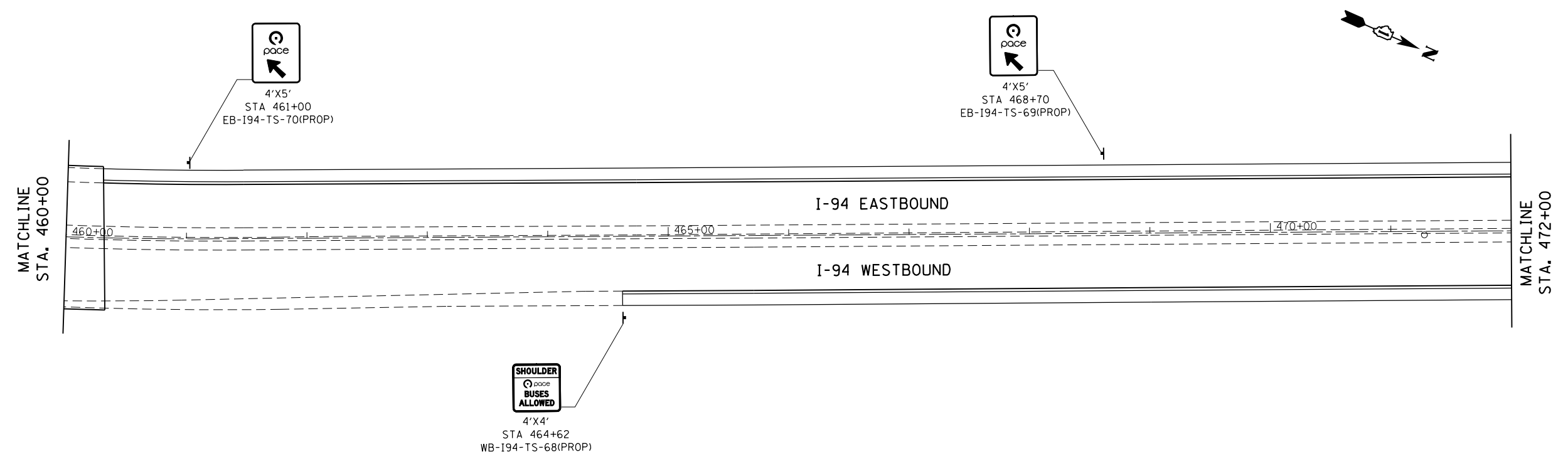
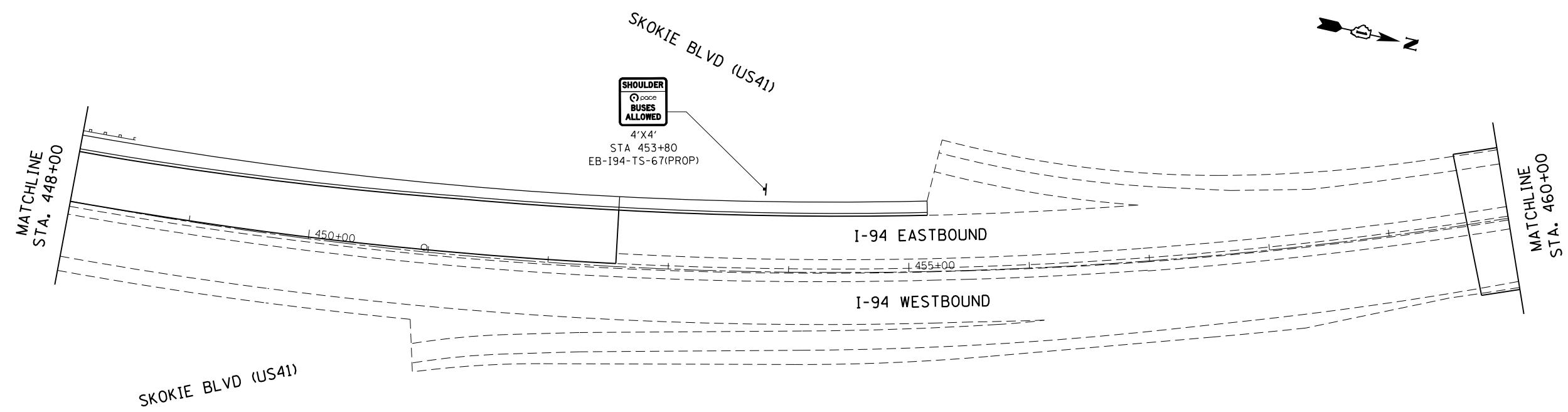
USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50'    SHEET NO.    OF    SHEETS    STA. 448+00    TO    STA. 472+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	111
CONTRACT NO. 62C10				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:

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 1030 194 SIGNING TEL-194

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

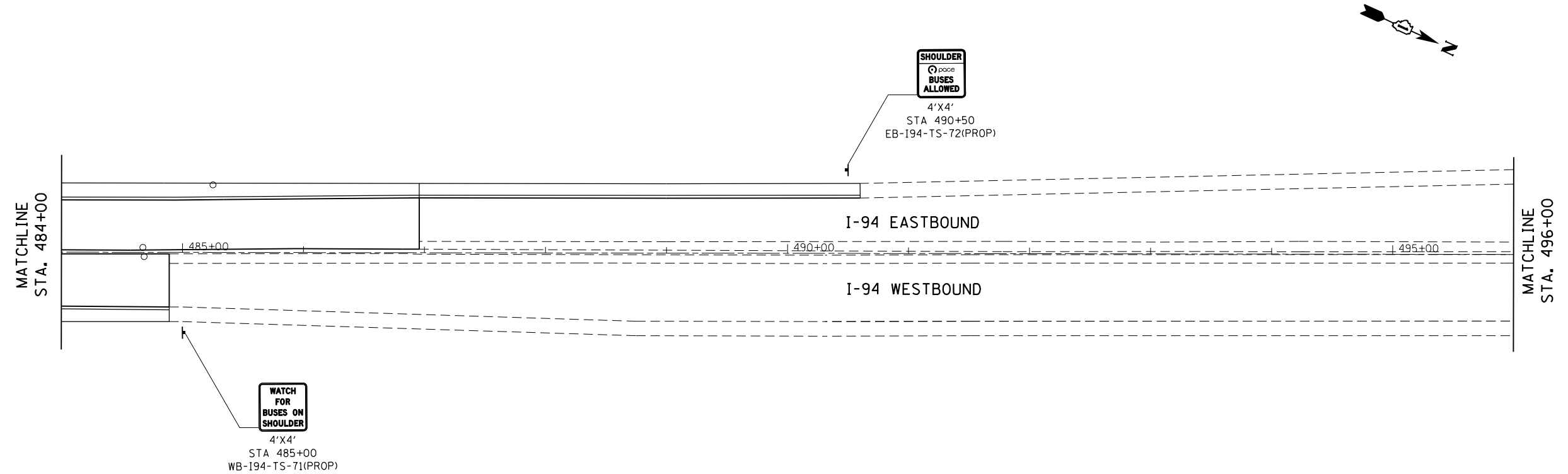
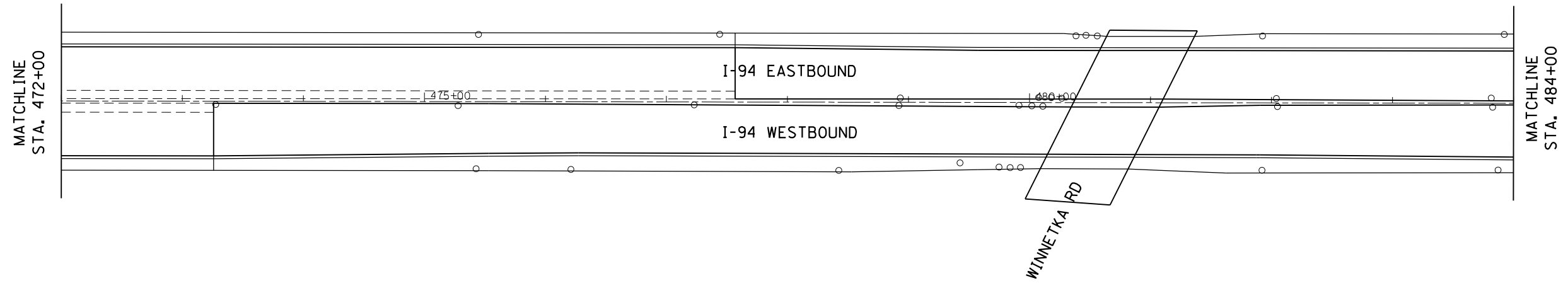
USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 472+00 TO STA. 496+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	112
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

6650046-09-shr-sigm-2.dgn  
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 4030 194 SIGNING TEL-74

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

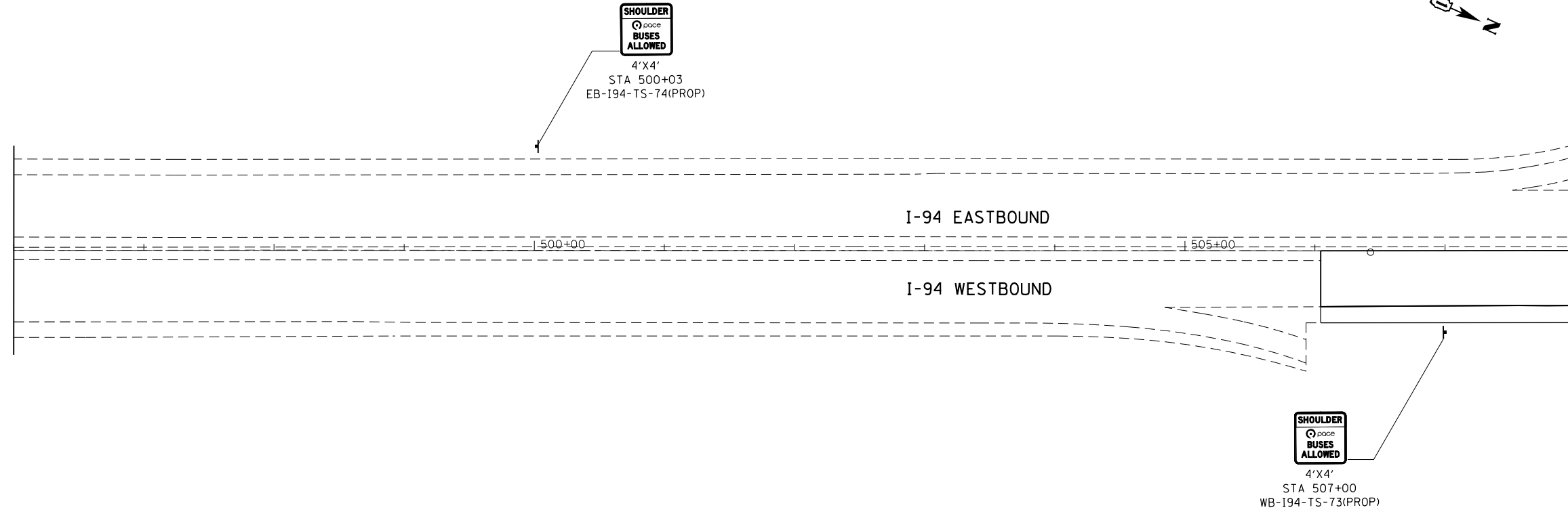
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50'    SHEET NO.    OF    SHEETS    STA. 496+00    TO    STA. 520+00

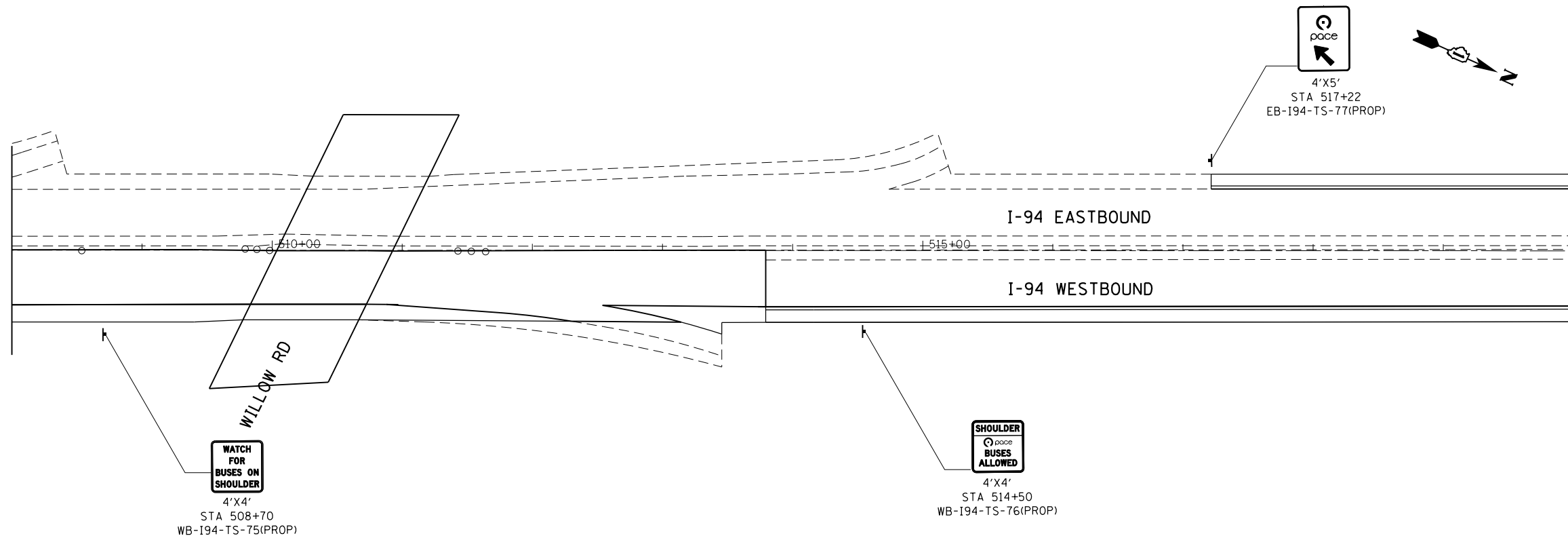
F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	113
CONTRACT NO. 62C10				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				

MATCHLINE  
STA. 496+00



MATCHLINE  
STA. 508+00

MATCHLINE  
STA. 508+00



MATCHLINE  
STA. 520+00

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	GRADE CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:

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 10/24/2016 10:30 AM  
 1030 194 SIGNING TEL-794

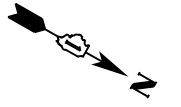
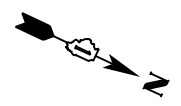
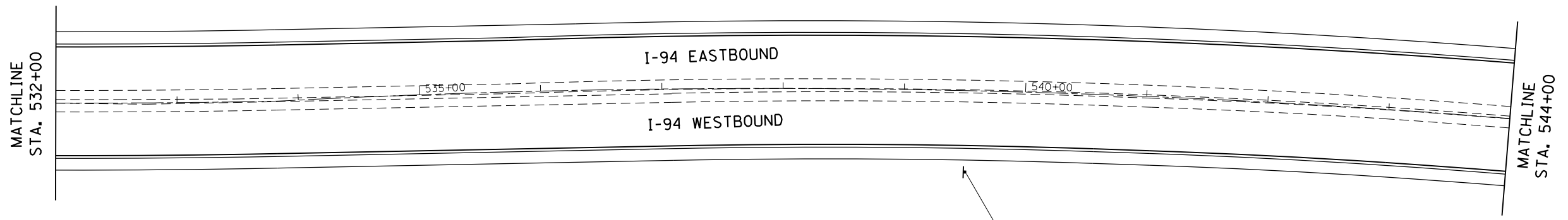
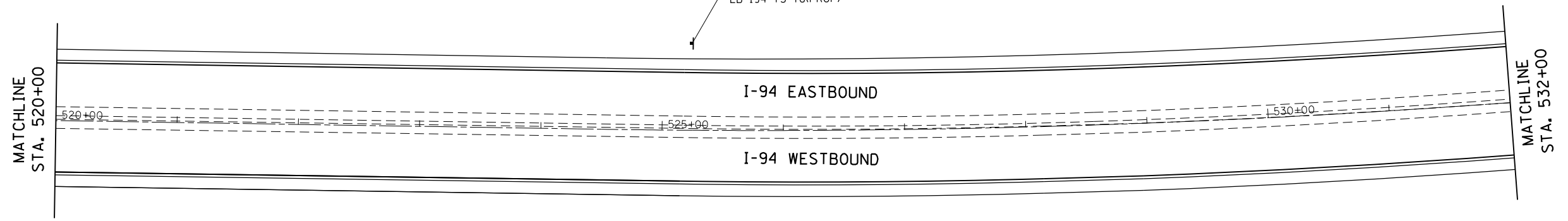
**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED SIGNING PLANS</b>			
<b>EDENS EXPRESSWAY (I-94)</b>			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. 520+00 TO STA. 544+00

F.A.I R.T.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	114
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



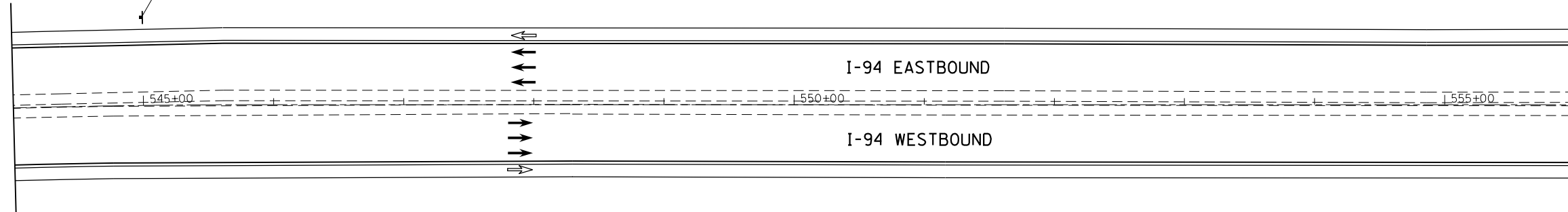
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOT AT THIS OFFICE		
	NO. _____		
	FILE NAME _____		
	PEN TABLE _____		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOT AT THIS OFFICE		
	NO. _____		
	FILE NAME _____		
	PEN TABLE _____		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:

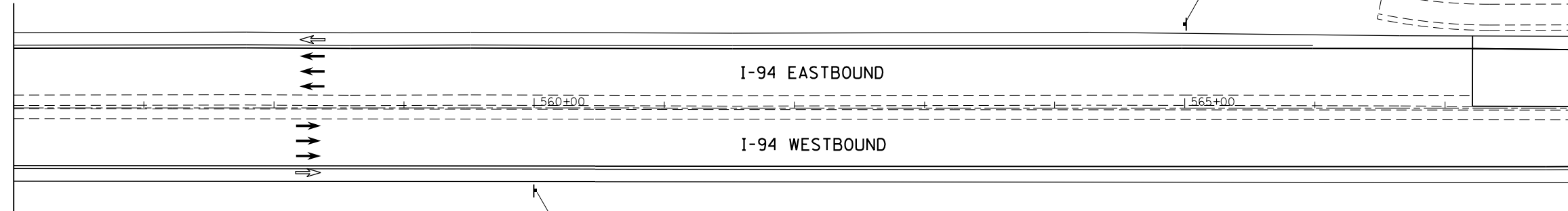
6650046\_09\_sht+sign-23.dgn  
 10/27/2016 10:30 AM  
 1030 194 SIGNING TEL.P4

MATCHLINE  
STA. 544+00



MATCHLINE  
STA. 556+00

MATCHLINE  
STA. 556+00



MATCHLINE  
STA. 568+00

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PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

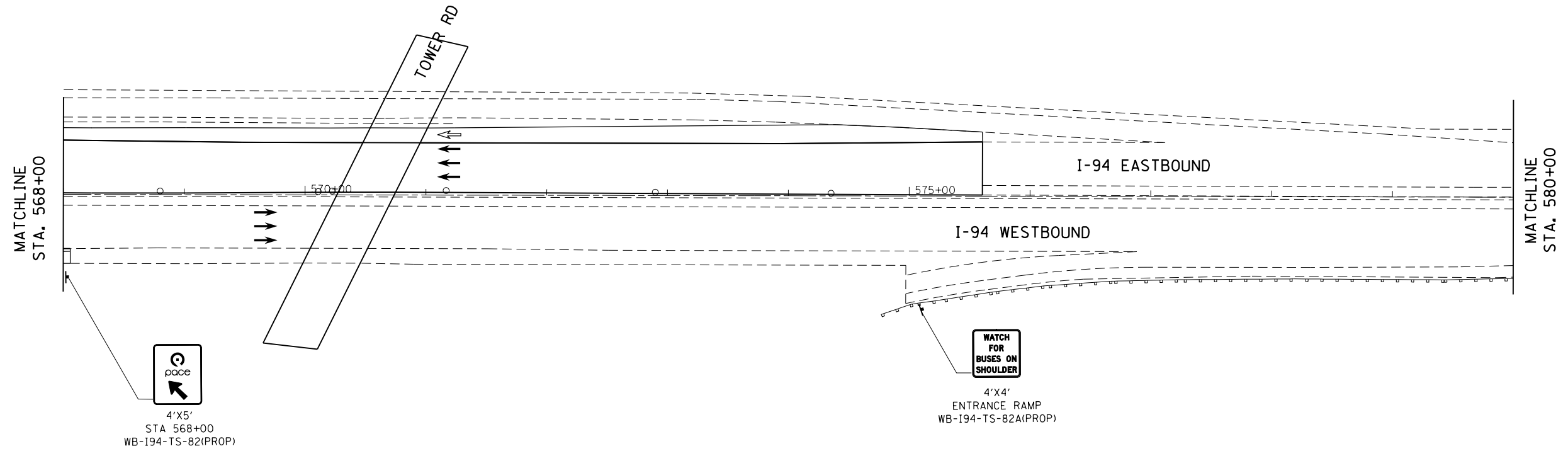
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

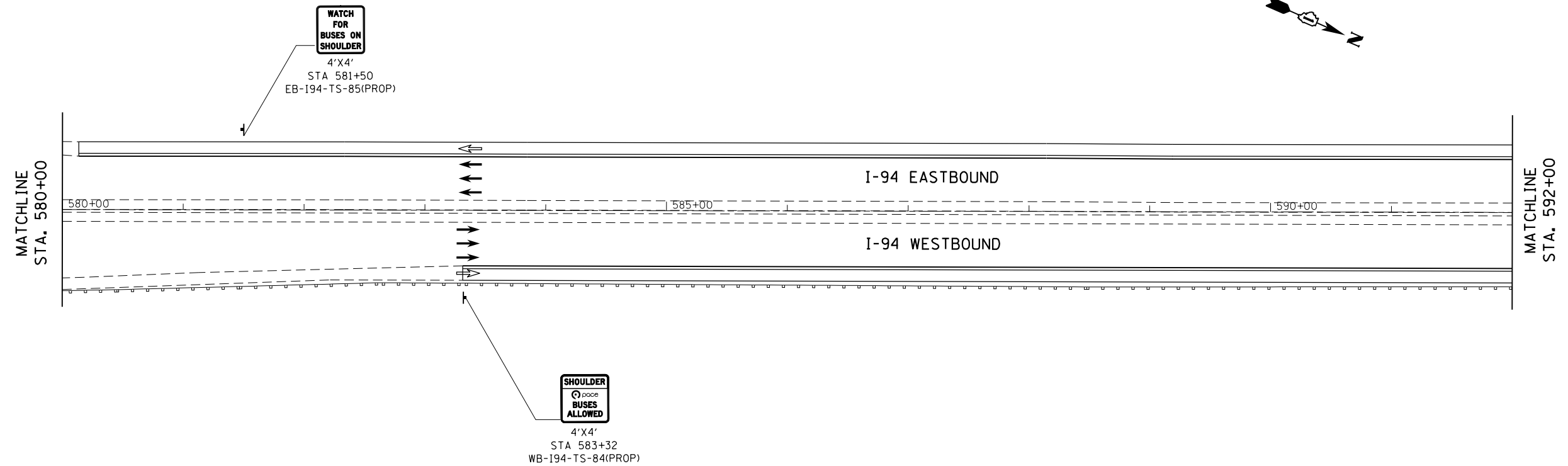
SCALE: 1"=50' SHEET NO. OF SHEETS STA. 544+00 TO STA. 568+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	115
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	CHECKED		
	FILE NAME		
	FILE NO.		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK		
	NO.		
	STRUCTURE		
	NOT AT THIS OFFICE		



HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

6650046\_09\_sht+sign-24.dgn  
 10/24/2016 10:30 AM  
 1030 I94 SIGNING TEL.PD

**AMES Engineering, Inc.**  
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	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 568+00 TO STA. 592+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	116
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FIELD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FIELD FILE NAME		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:

6650046\_09\_sht+sign-25.dgn  
 10/27/2016 10:58:11 AM  
 1030 194 SIGNING TEL.P4

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

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	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

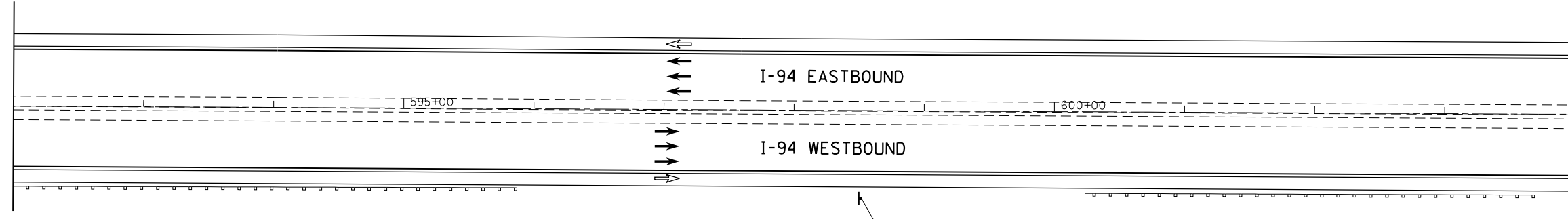
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 592+00 TO STA. 616+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	117
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

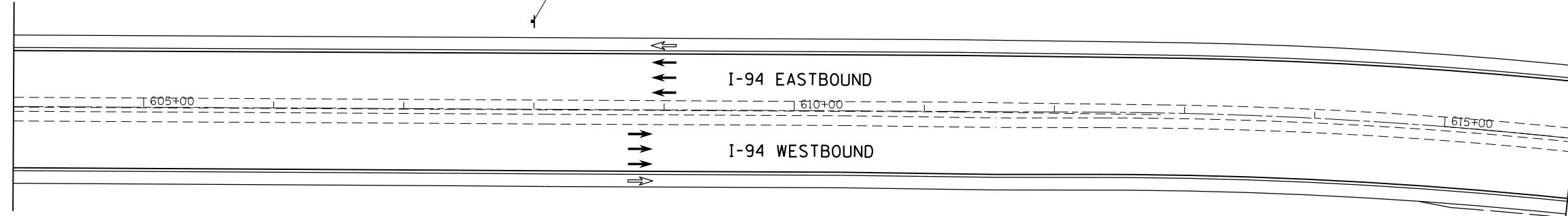
MATCHLINE  
STA. 592+00



**SHOULDER**  
 BUS  
 USE  
 ENDS  
 1/2 MILE

4'X5'  
 STA 598+50  
 WB-I94-TS-86(PROP)

MATCHLINE  
STA. 604+00



**SHOULDER**  
 BUSES  
 ALLOWED

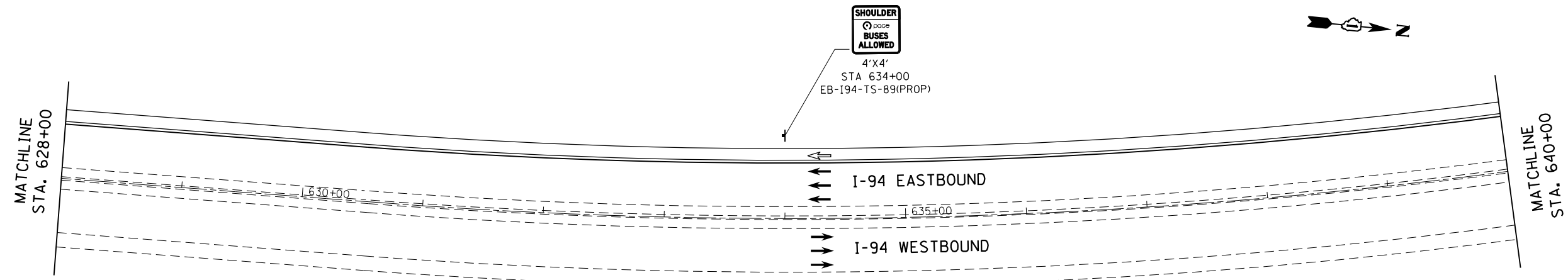
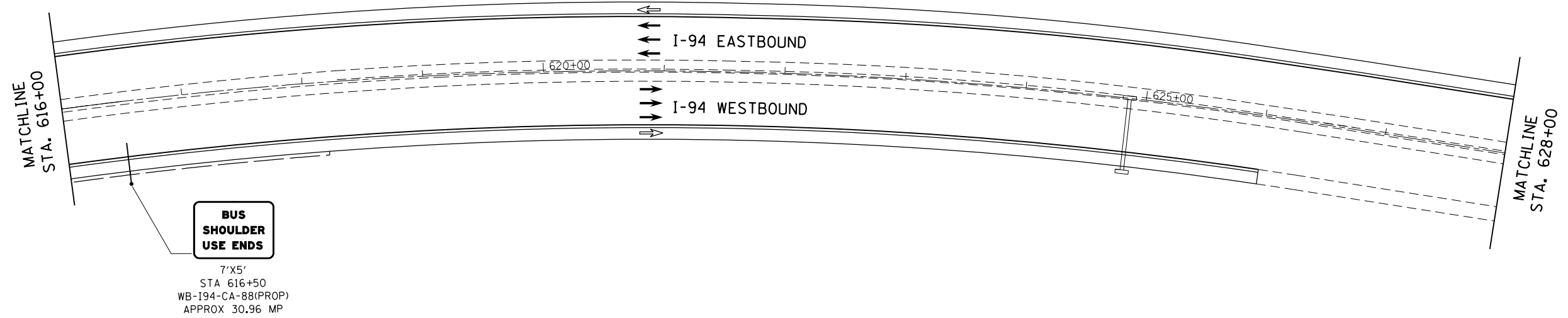
4'X4'  
 STA 608+00  
 EB-I94-TS-87(PROP)



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	FILE NAME		
	NO.		

HRG PROJECT NO.: 6650046-09-sht-sign-26.dgn  
 HRG PROJ CONTACT: [raja@ames-engineering.com](mailto:raja@ames-engineering.com)  
 FILE NUMBER: 1030 I94 SIGNING TEL-79  
 PEN TABLE:



**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

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PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 616+00 TO STA. 640+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	118
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	AS BUILT CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NAME:  
 PEN TABLE:

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

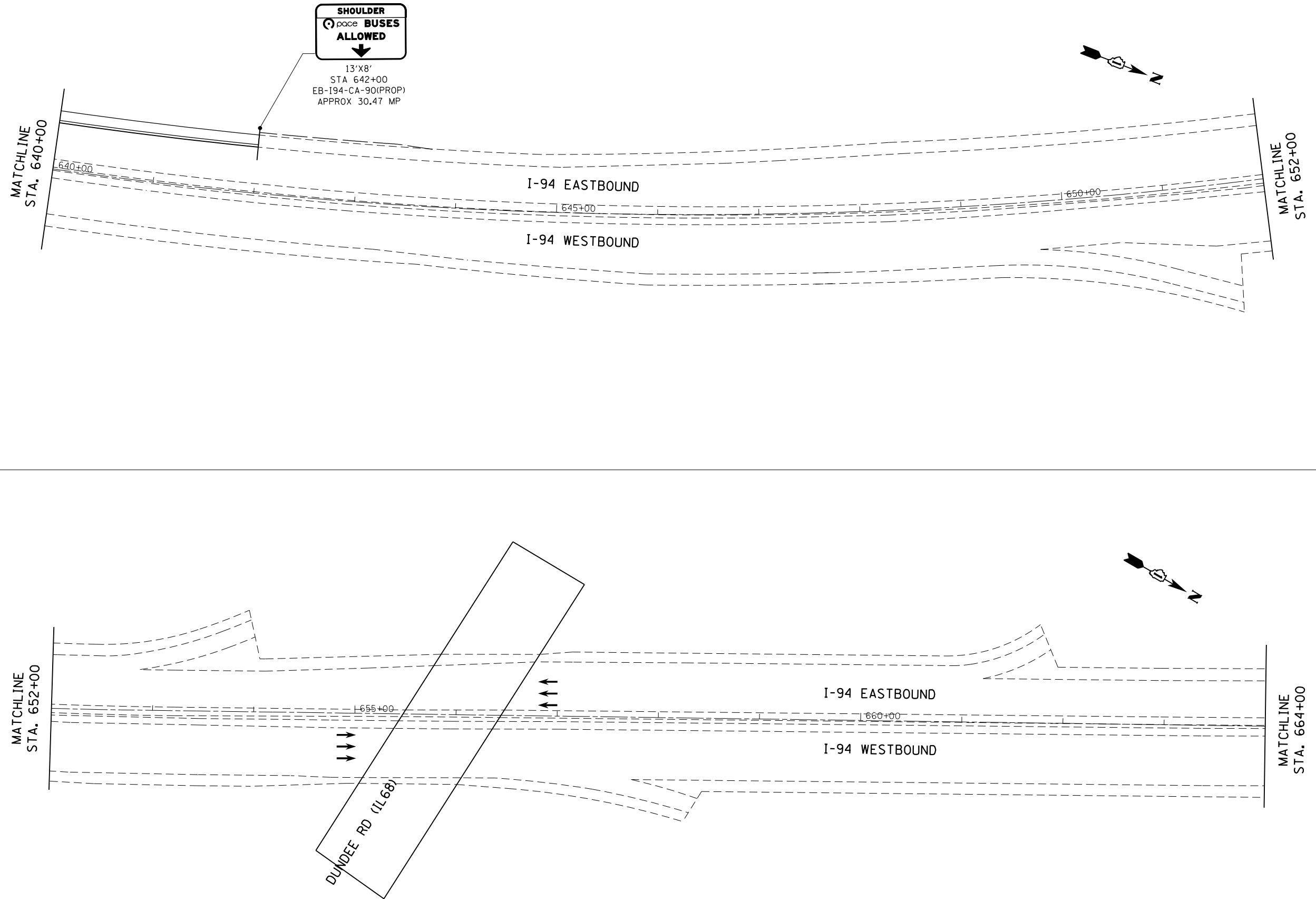
USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING PLANS  
 EDENS EXPRESSWAY (I-94)**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 640+00 TO STA. 664+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	119
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**SHOULDER**  
 BUSES ALLOWED

13'X8'  
 STA 642+00  
 EB-I94-CA-90(PROP)  
 APPROX 30.47 MP

MATCHLINE  
 STA. 640+00

MATCHLINE  
 STA. 652+00

MATCHLINE  
 STA. 652+00

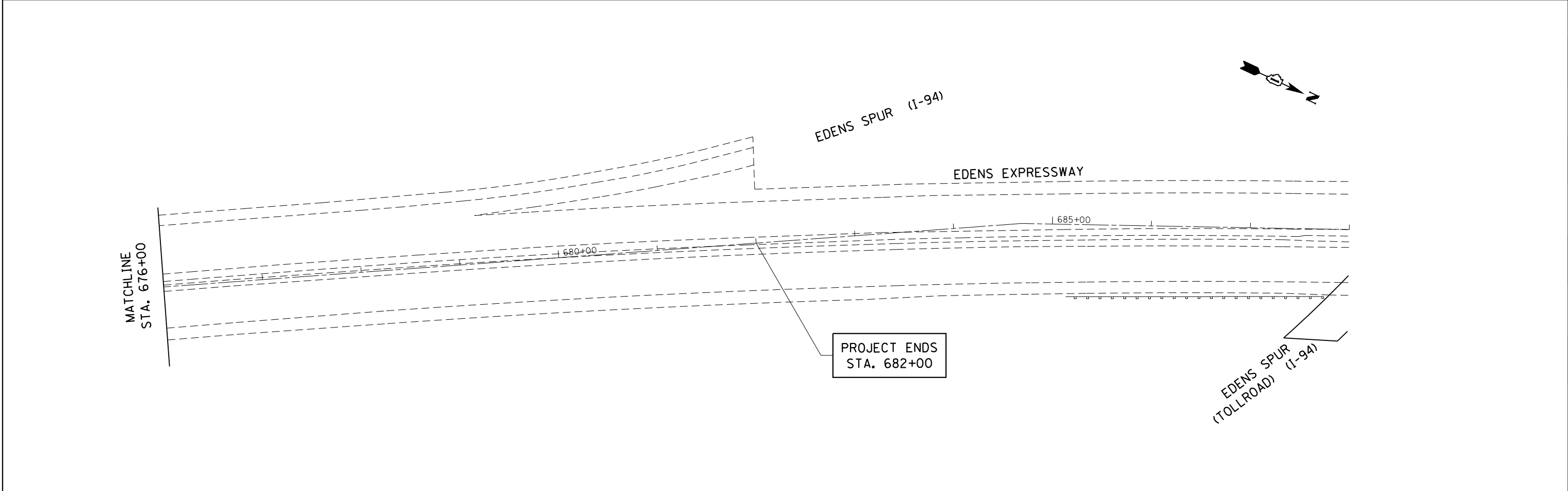
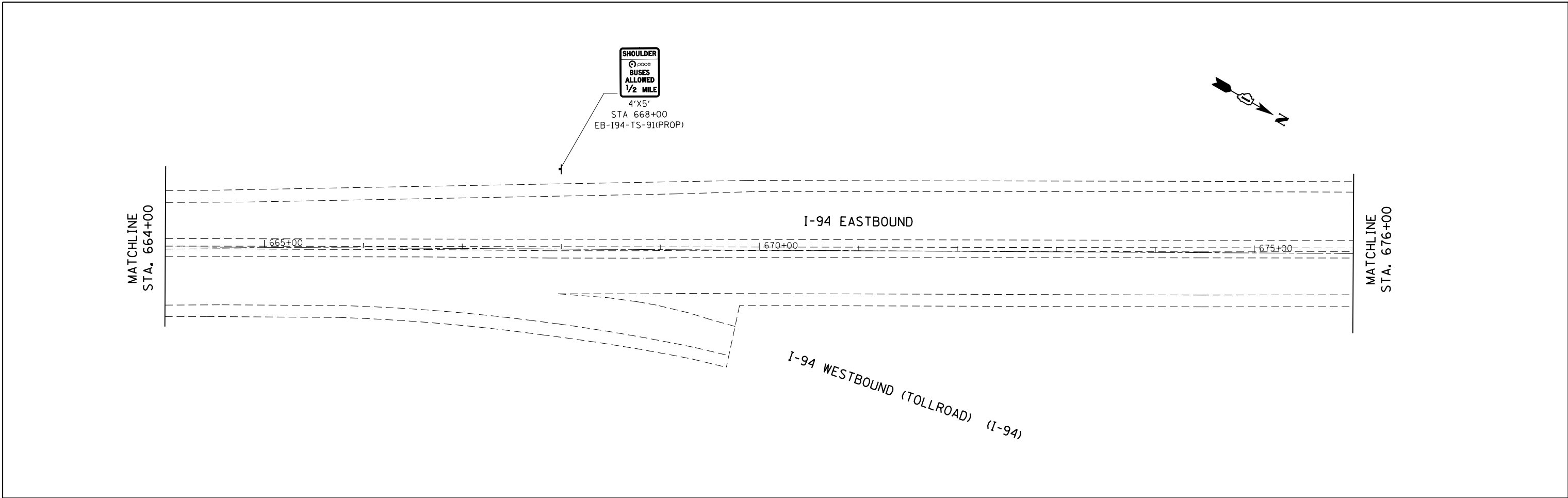
MATCHLINE  
 STA. 664+00

DUNDEE RD (IL68)

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

HRG PROJECT NO.:  
 HRG PROJ CONTACT:  
 FILE NUMBER:  
 PEN TABLE:



**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

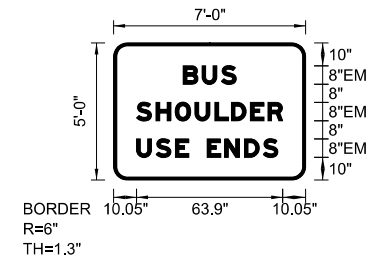
<b>PROPOSED SIGNING PLANS</b>			
<b>EDENS EXPRESSWAY (I-94)</b>			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	TO STA. 688+00

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	120
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	
	BY	
	DATE	

**SIGN DETAIL**  
1:50



Panel Style: BUS SHOULDER.ssi  
M.U.T.C.D.: 2009 Edition

Panel Style: BUS SHOULDER.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

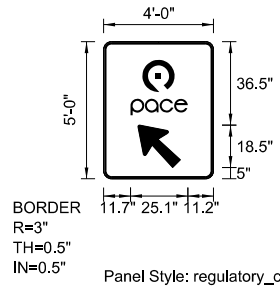
SIGN NUMBER	VARIOUS
WIDTH x HGHT.	7'-0" x 5'-0"
BORDER WIDTH	1.3"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ COLOR: White
LEGENDBORDER	TYPE: ZZ COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIESSIZE
B	U	S									EM 2000
30.4	38.6	47.1								23.2	8
S	H	O	U	L	D	E	R				EM 2000
10	18.5	26.9	35.6	44.3	51.5	59.9	67.5			63.9	8
U	S	E		E	N	D	S				EM 2000
10	18.5	27	32.9	40.9	48.5	57.2	65.4			61.8	8

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK	
	NO.	
	BY	
	DATE	

**SIGN DETAIL**  
1:50



Panel Style: regulatory\_con\_HOV\_Ground.ssi  
M.U.T.C.D.: 2009 Edition

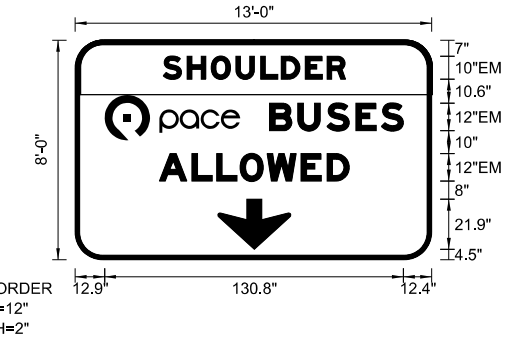
Panel Style: regulatory\_con\_HOV\_Ground.ssi  
Dimensions are in inches.tenths  
Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	4'-0" x 5'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: AP COLOR: White
LEGENDBORDER	TYPE: AP COLOR: Black

SYMBOL	ROT	X	Y	WID	HT
	0	16.9	38	14.1	14.1
	0	11.7	27.8	25.1	7.2
AR_Type A	45	15	5	15	23.5

LETTER POSITIONS (X)										LENGTH	SERIESSIZE

**SIGN DETAIL**  
1:50



Panel Style: BUS SHLD OVERHEAD.ssi  
M.U.T.C.D.: 2009 Edition

Panel Style: BUS SHLD OVERHEAD.ssi  
Dimensions are in inches.tenths  
Letter locations are panel edge to lower left corner

SIGN NUMBER	VARIOUS
WIDTH x HGHT.	13'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ COLOR: White
LEGENDBORDER	TYPE: ZZ COLOR: White /Black/Black

SYMBOL	ROT	X	Y	WID	HT
	0	12.9	52.2	59.4	19.8
ARDOWN	0	62.5	4.5	31.9	21.9

LETTER POSITIONS (X)										LENGTH	SERIESSIZE
S	H	O	U	L	D	E	R				EM 2000
38.4	49	59.5	70.3	81.2	90.2	100.7	110.2			79.9	10
B	U	S	E	S							EM 2000
85.1	97.5	110.2	122.9	133.9						58.6	12
A	L	L	O	W	E	D					EM 2000
36.8	51.1	61.9	72.2	84	98.9	110.3				83.2	12

HRG PROJECT NO.: 6650046-09-shr-signage-02.dgn  
HRG PROJ CONTACT: JEFFREY W. HARRIS  
FILE NUMBER: 1030 194 SIGNAGE TEL. 704

**AMES Engineering, Inc.**  
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Downers Grove, IL 60515

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PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/27/2016	DATE - 10/24/2016	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGNING DETAILS  
EDENS EXPRESSWAY (I-94)**

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

F.A.I R.T.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	122
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

SIGN DESIGNATION	STATION	OFFSET	LOCATION	DESCRIPTION	SIGN SIZE		72000200	72000300	72800100	
					FOOT	SQ FT	SIGN PANEL -TYPE 2	SIGN PANEL -TYPE 3	TELESCOPING STEEL SIGN SUPPORT	FOOT
WB-194-TS-01(PROP)	02+50	RT	I 94	buses allowed	4	5	20		1	19
WB-194-CA-02(PROP)	28+50	RT	I 94	buses allowed	13	8	104	104	CANTILEVER	MOUNTED
WB-194-TS-03(PROP)	37+50	RT	I 94	buses allowed	4	4	16		1	18
EB-194-CA-04(PROP)	43+05	LT	I 94	BUS SHOULDER USE ENDS	7	5	35	35	CANTILEVER	MOUNTED
WB-194-TS-05(PROP)	52+00	RT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-06(PROP)	62+00	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-07(PROP)	62+00	LT	I 94	ends 1/2 mile	4	5	20		1	19
EB-194-TS-08(PROP)	ENTRANCE RAMP	LT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-09(PROP)	69+20	RT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-10(PROP)	ENTRANCE RAMP	RT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-11(PROP)	73+00	LT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-12(PROP)	ENTRANCE RAMP	LT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-13(PROP)	82+00	LT	I 94	pace left arrow	4	5	20		1	20
WB-194-TS-14(PROP)	86+50	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-15(PROP)	103+50	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-16(PROP)	107+00	RT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-17(PROP)	123+00	RT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-18(PROP)	130+50	RT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-19(PROP)	129+50	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-20(PROP)	138+44	RT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-21(PROP)	ENTRANCE RAMP	RT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-22(PROP)	141+50	LT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-23(PROP)	ENTRANCE RAMP	LT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-24(PROP)	150+00	RT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-25(PROP)	ENTRANCE RAMP	RT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-26(PROP)	153+60	LT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-27(PROP)	ENTRANCE RAMP	LT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-28(PROP)	160+50	RT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-29(PROP)	164+75	LT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-31(PROP)	186+50	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-32(PROP)	205+50	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-33(PROP)	212+00	RT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-34(PROP)	233+50	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-35(PROP)	232+50	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-36(PROP)	261+00	RT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-37(PROP)	262+35	RT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-38(PROP)	258+50	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-39(PROP)	271+50	RT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-40(PROP)	ENTRANCE RAMP	RT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-41(PROP)	271+50	LT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-42(PROP)	ENTRANCE RAMP	LT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-43(PROP)	282+80	RT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-44(PROP)	ENTRANCE RAMP		I 94	watch for buses	4	4	16		1	18
EB-194-TS-45(PROP)	283+00	LT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-46(PROP)	ENTRANCE RAMP		I 94	watch for buses	4	4	16		1	18
WB-194-TS-47(PROP)	294+50	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-48(PROP)	295+50	LT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-49(PROP)	293+00	LT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-50(PROP)	322+25	RT	I 94	ends 1/2 mile	4	5	20		1	19

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	FILE NAME	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	STRUCTURE	
	NOTATIONS CHECKED	

HRG PROJECT NO.: 6650046-09-sht-signs-schedule-01.dgn  
 HRG PROJ CONTACT: J. P. ...  
 FILE NAME: ...  
 PEN TABLE: ...



USER NAME =	DESIGNED - RA	REVISED -
	DRAWN - RA	REVISED -
PLOT SCALE =	CHECKED - AS	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING SCHEDULES  
 EDENS EXPRESSWAY (I-94)

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

F.A.I R.T.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	123
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

SIGN DESIGNATION	STATION	OFFSET	LOCATION	DESCRIPTION	SIGN SIZE		72000200	72000300	72800100	
					FOOT	SO FT	SIGN PANEL -TYPE 2	SIGN PANEL -TYPE 3	TELESCOPING STEEL SIGN SUPPORT	FOOT
EB-194-TS-51(PROP)	320+50	LT	I 94	buses allowed	4	4	16		1	18
WB-194-CA-52(PROP)	348+20	RT	I 94	bus shoulder use ends	7	5	35	35	CANTILEVER	MOUNTED
EB-194-TS-53(PROP)	346+65	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-54(PROP)	358+00	RT	I 94	buses allowed	4	5	20		1	19
EB-194-TS-55(PROP)	366+23	LT	I 94	pace left arrow	4	5	20		1	19
WB-194-CA-56(PROP)	387+00	RT	I 94	buses allowed	13	8	104	104	CANTILEVER	MOUNTED
EB-194-TS-57(PROP)	ENTRANCE RAMP	LT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-58(PROP)	379+89	LT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-58A(PROP)	381+16	LT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-59(PROP)	413+00	RT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-60(PROP)	423+20	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-61(PROP)	ENTRANCE RAMP	LT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-62(PROP)	414+80	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-63(PROP)	434+14	RT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-64(PROP)	432+33	LT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-65(PROP)	442+25	RT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-66(PROP)	440+50	LT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-67(PROP)	453+80	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-68(PROP)	464+62	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-69(PROP)	468+70	LT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-70(PROP)	461+00	LT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-71(PROP)	485+00	RT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-72(PROP)	490+50	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-73(PROP)	507+00	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-74(PROP)	500+03	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-75(PROP)	508+70	RT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-76(PROP)	514+50	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-77(PROP)	517+22	LT	I 94	pace left arrow	4	5	20		1	19
EB-194-TS-78(PROP)	525+25	LT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-79(PROP)	539+50	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-80(PROP)	545+00	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-81(PROP)	560+00	RT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-82(PROP)	568+00	RT	I 94	pace left arrow	4	5	20		1	19
WB-194-TS-82A(PROP)	ENTRANCE RAMP	RT	I 94	watch for buses	4	4	16		1	18
EB-194-TS-83(PROP)	565+00	LT	I 94	buses allowed	4	4	16		1	18
WB-194-TS-84(PROP)	583+32	RT	I 94	buses allowed	4	4	16		1	18
EB-194-TS-85(PROP)	581+50	LT	I 94	watch for buses	4	4	16		1	18
WB-194-TS-86(PROP)	598+50	RT	I 94	ends 1/2 mile	4	5	20		1	19
EB-194-TS-87(PROP)	608+00	LT	I 94	buses allowed	4	4	16		1	18
WB-194-CA-88(PROP)	616+50	RT	I 94	shoulder use ends	7	5	35	35	CANTILEVER	MOUNTED
EB-194-TS-89(PROP)	634+00	LT	I 94	buses allowed	4	4	16		1	18
EB-194-CA-90(PROP)	642+00	LT	I 94	buses allowed	13	8	104	104	CANTILEVER	MOUNTED
EB-194-TS-91(PROP)	668+00	LT	I 94	allowed 1/2 mile	4	5	20		1	19
				TOTAL			1,492	417		1,578

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE	
	NOTATIONS	

HRG PROJECT NO.: 8660046-09-sht-signschedule-02.dgn  
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PLOT DATE = 10/28/2016	DATE - 10/24/2016	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNING SCHEDULES  
 EDENS EXPRESSWAY (I-94)

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

F.A.I. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	124
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. 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.

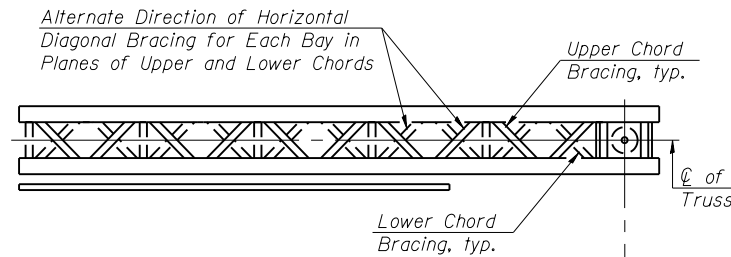
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

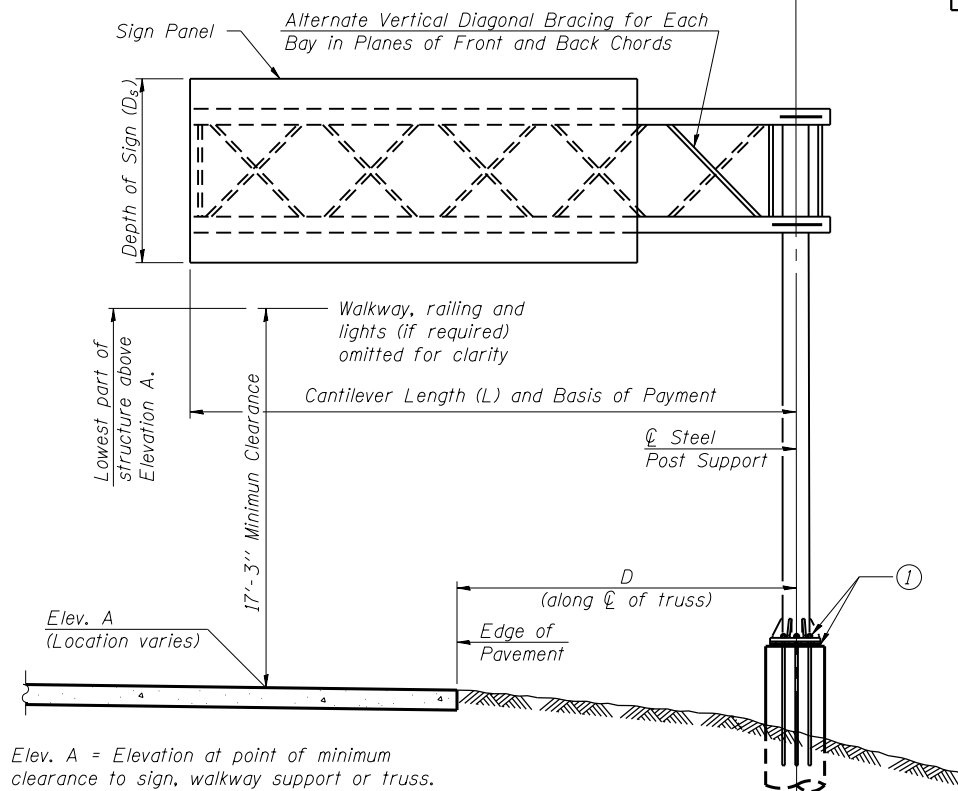
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D <sub>s</sub>	Total Sign Area
IC0161094L042.2	28+50	I-C-A	19	620.56	7	8	104
IC0161094R041.8	43+05	I-C-A	16	625.42	7	5	35
IC0161094L036.2	348+20	I-C-A	16	651.87	7	5	35
IC0161094L035.4	387+00	I-C-A	19	621.17	7	8	104
IC0161094L030.9	616+50	I-C-A	17	631.30	7	8	104
IC0161094R030.4	642+00	I-C-A	19	629.50	7	8	104

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)

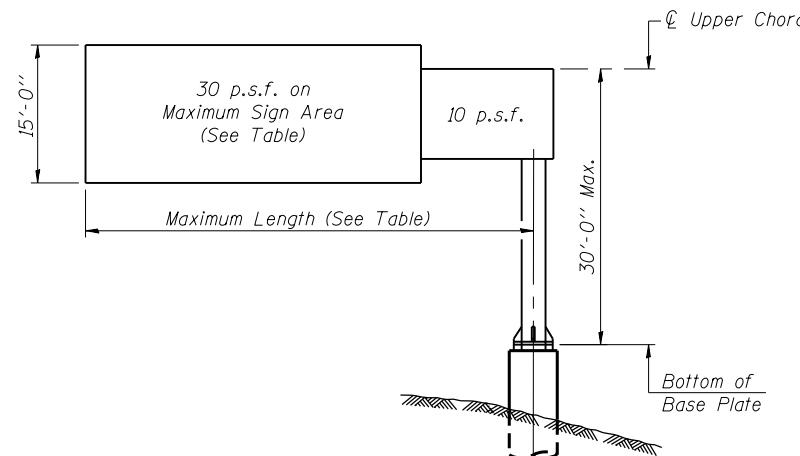


Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

**TYPICAL ELEVATION**  
Looking in Direction of Traffic

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.

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.



**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	106
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	29.1

OSC-A-1

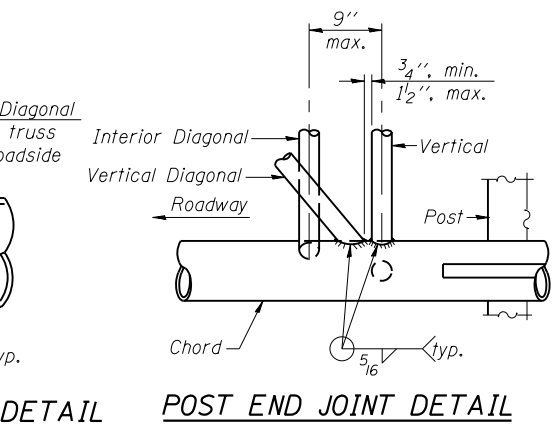
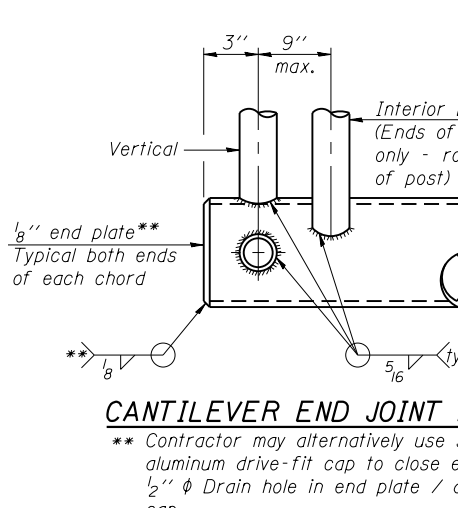
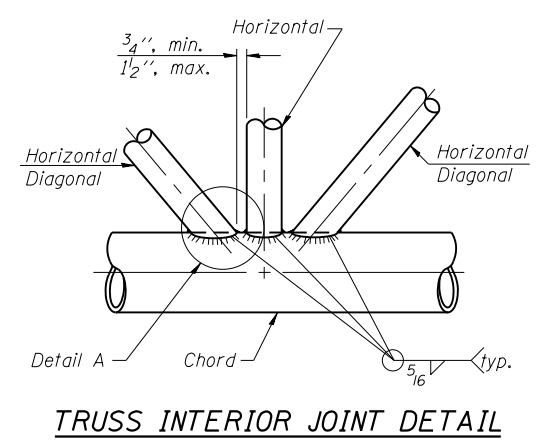
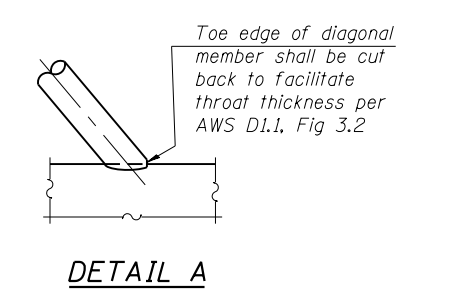
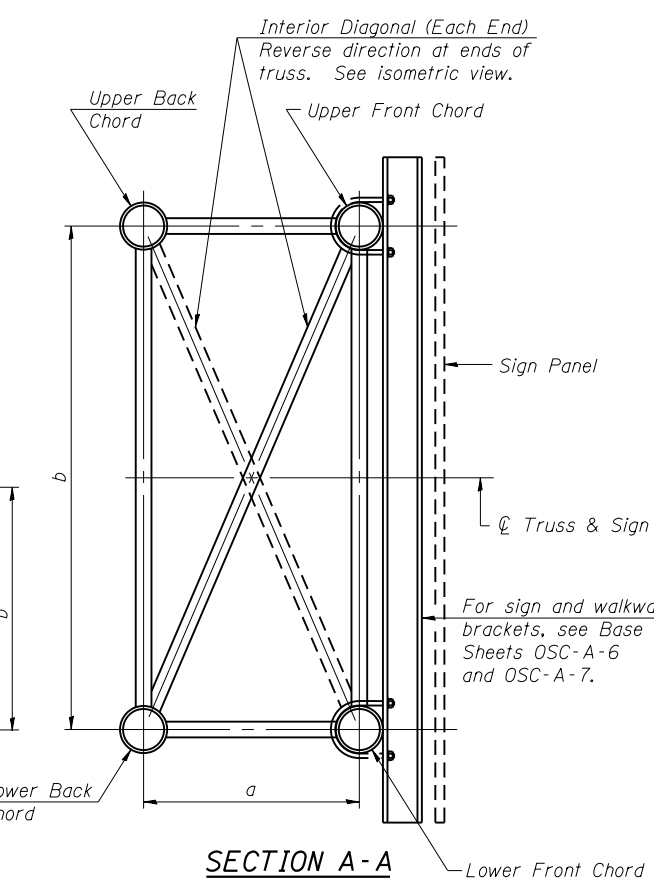
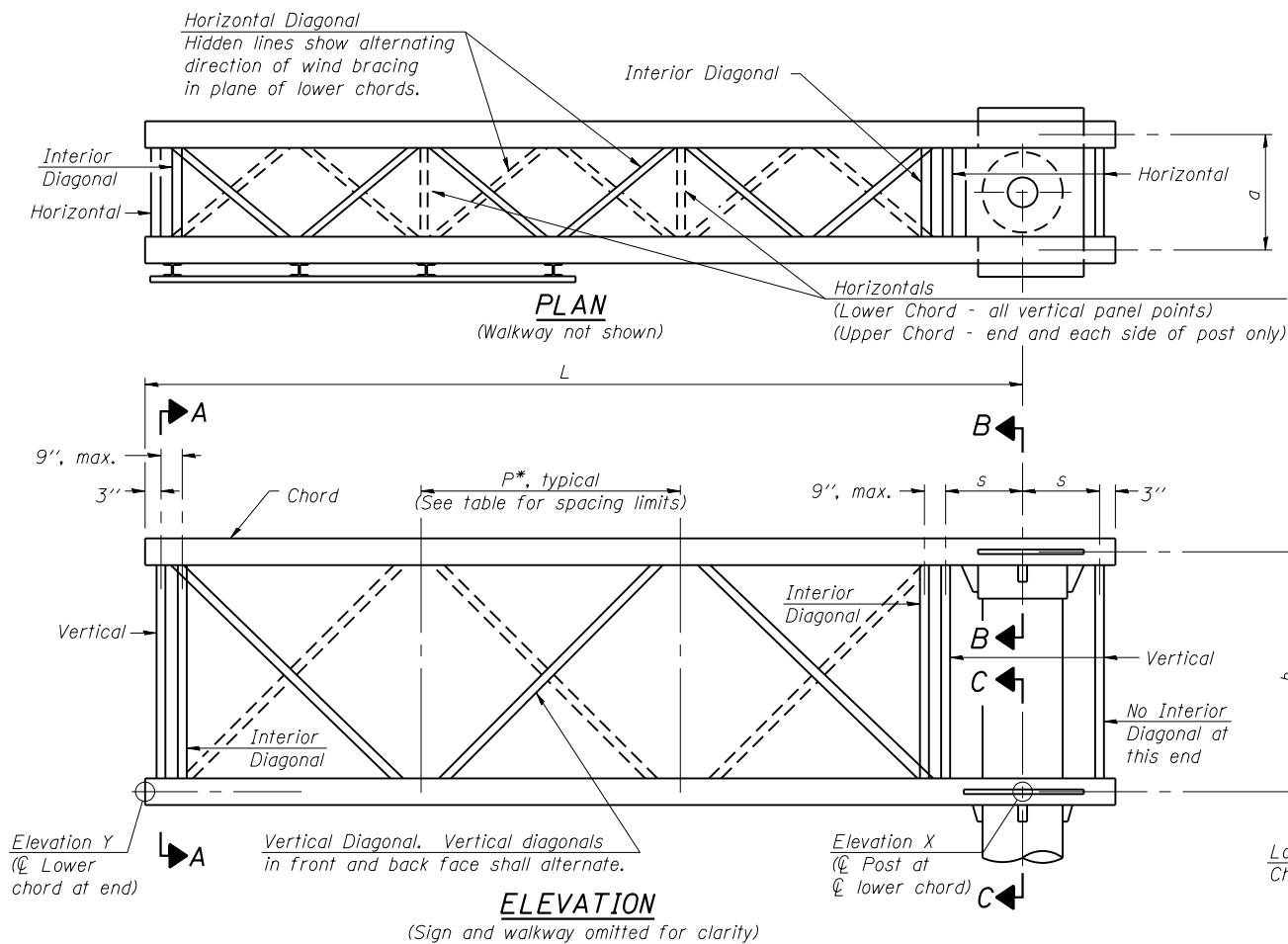
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	125
				CONTRACT NO. 62C10
ILLINOIS FED. AID PROJECT				



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**

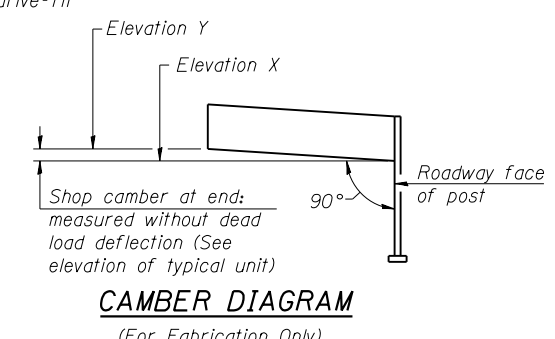
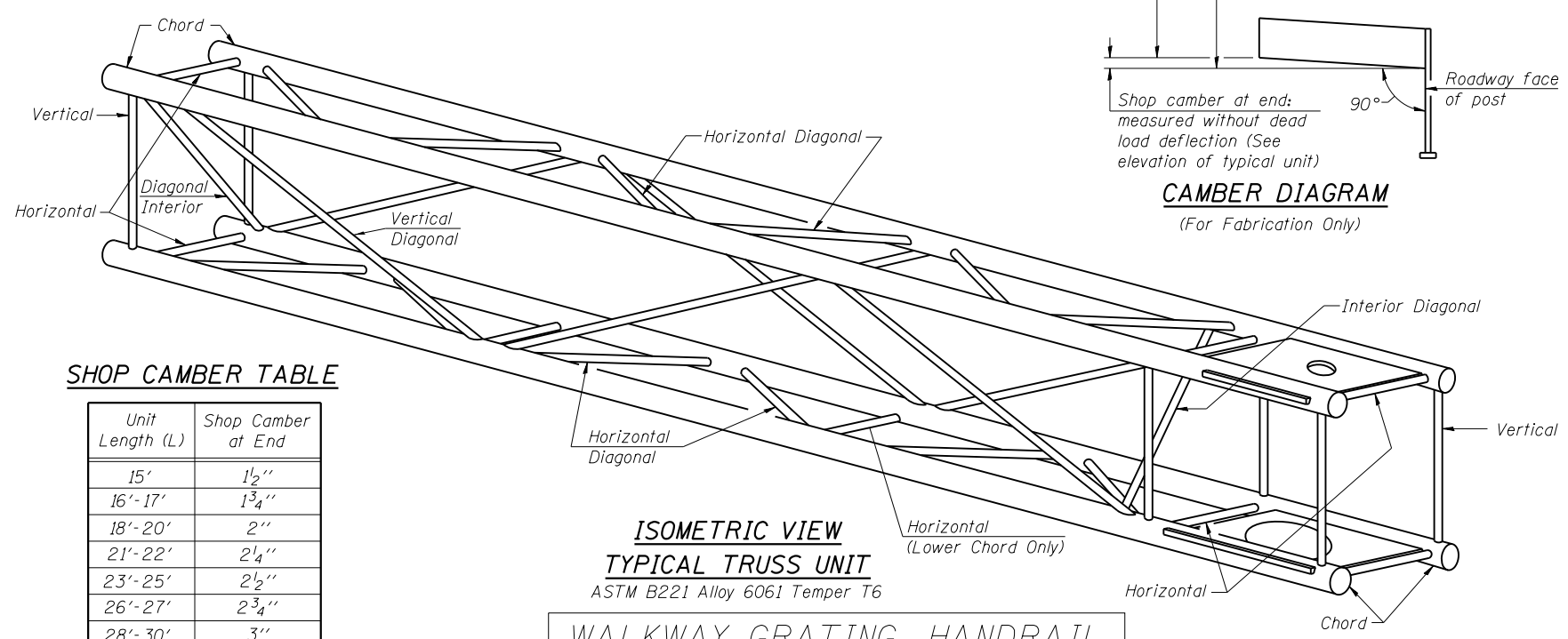
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	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 = (L - s - 3") / # Panels

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
IC0161094L042.2	28+50	I-C-A	19	5	41 13/16"
IC0161094R041.8	43+05	I-C-A	16	4	43 1/4"
IC0161094L036.2	348+20	I-C-A	16	4	43 1/4"
IC0161094L035.4	387+00	I-C-A	19	5	41 13/16"
IC0161094L030.9	616+50	I-C-A	17	4	46 1/4"
IC0161094R030.4	642+00	I-C-A	19	5	41 13/16"

**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"



WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

OSC-A-2

6-1-12

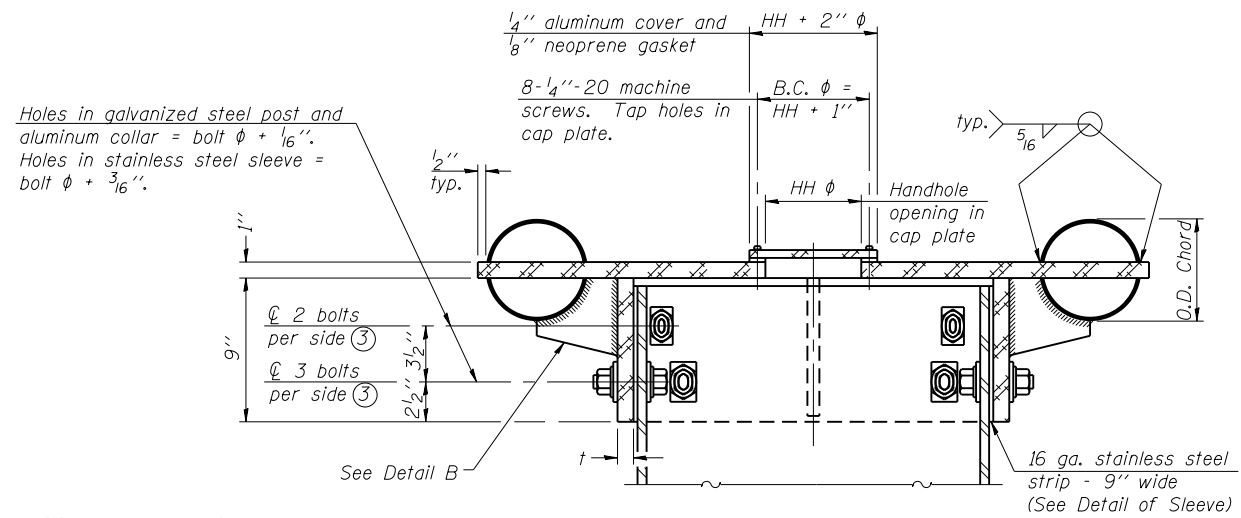
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS  
ALUMINUM TRUSS & STEEL POST

F.A.I. RTE. 94	SECTION 2016-003I	COUNTY COOK	TOTAL SHEETS 168	SHEET NO. 126
CONTRACT NO. 62C10				

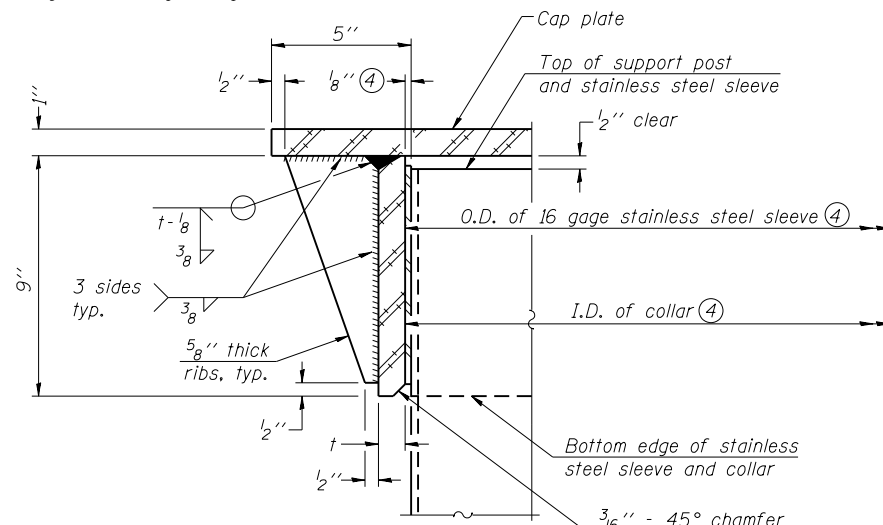
ILLINOIS FED. AID PROJECT



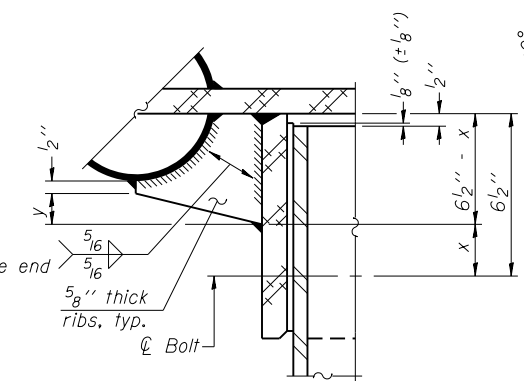
④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (+1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

**SECTION B-B**

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

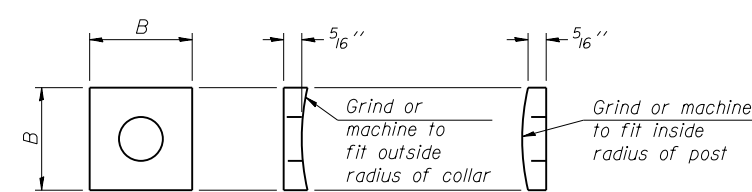


**DETAIL A**  
(Two locations)



**DETAIL B**

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



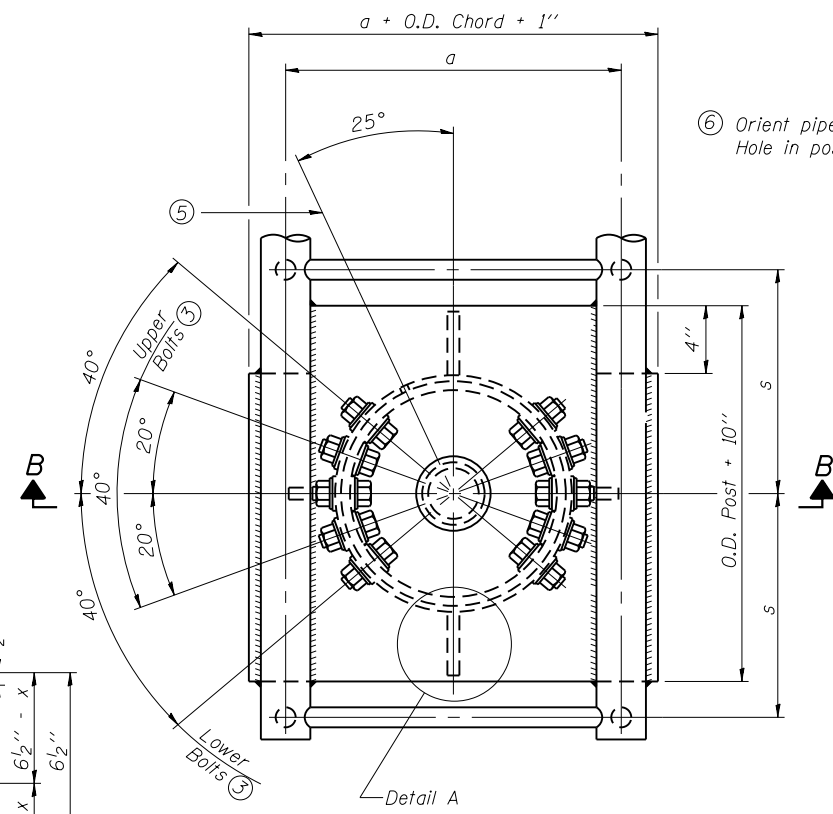
**CONTOURED WASHERS**

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**

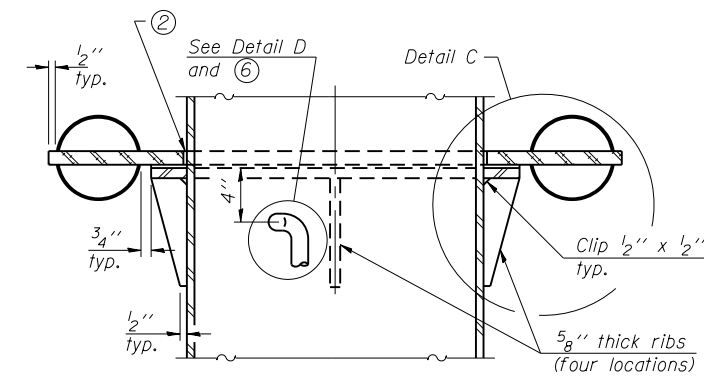
Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1/2" long at 6" cts. along top edge and at 1/4" opening.

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

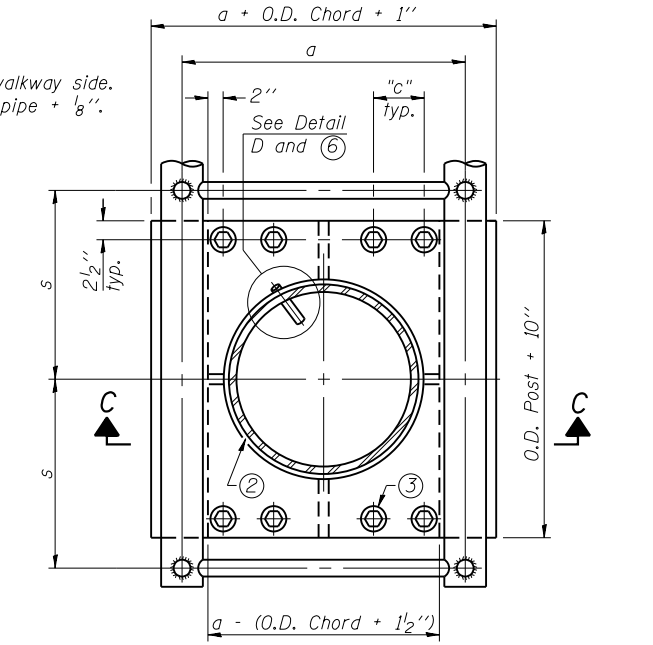


**PLAN VIEW - TOP OF COLUMN**

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

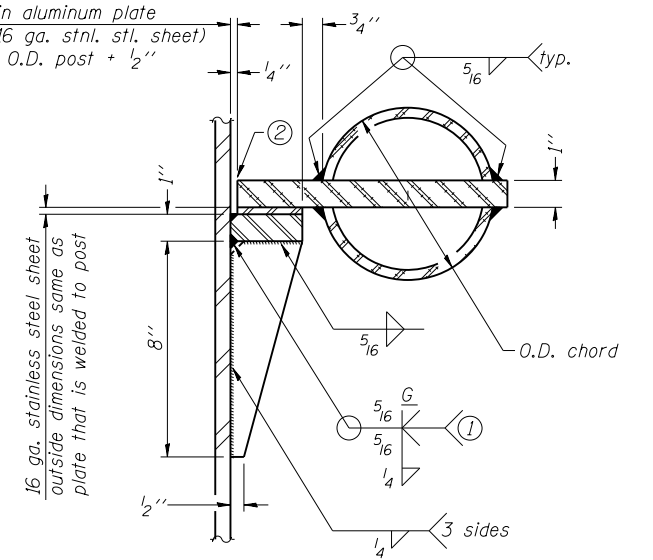


**SECTION C-C**



**SECTION THRU POST ABOVE LOWER CHORDS**

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



**DETAIL C**

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

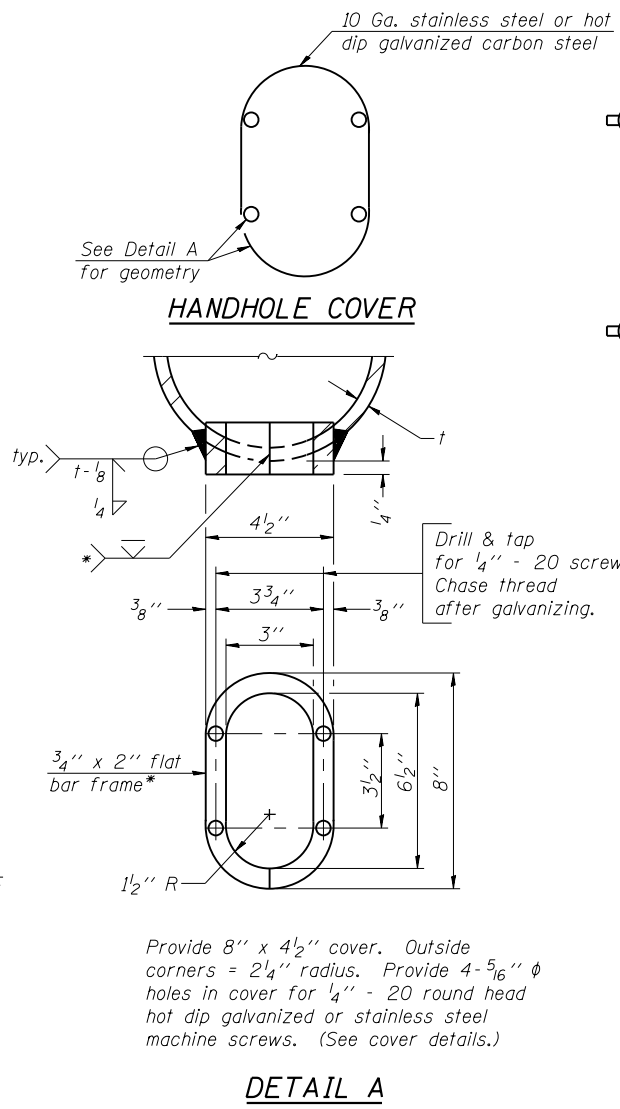
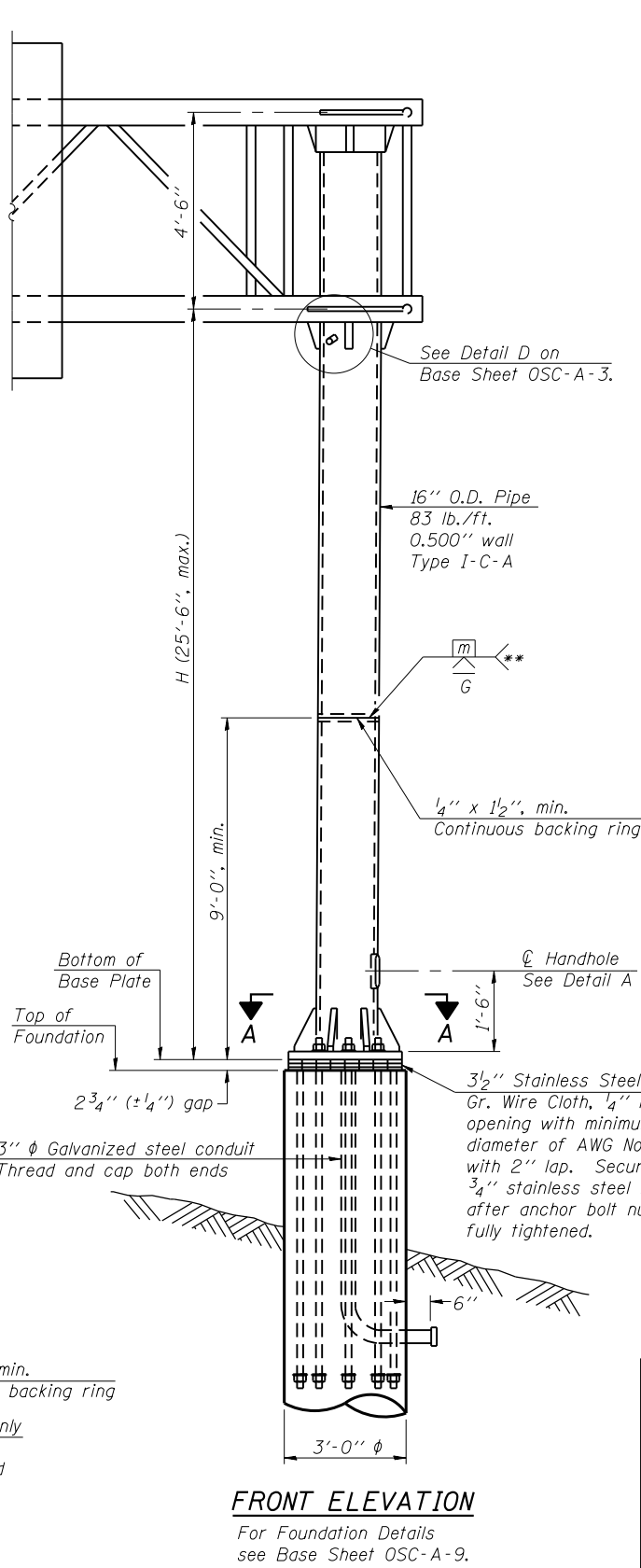
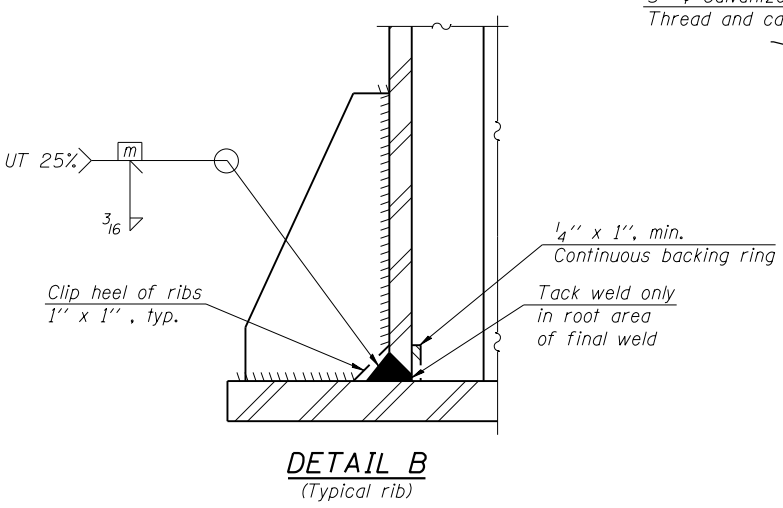
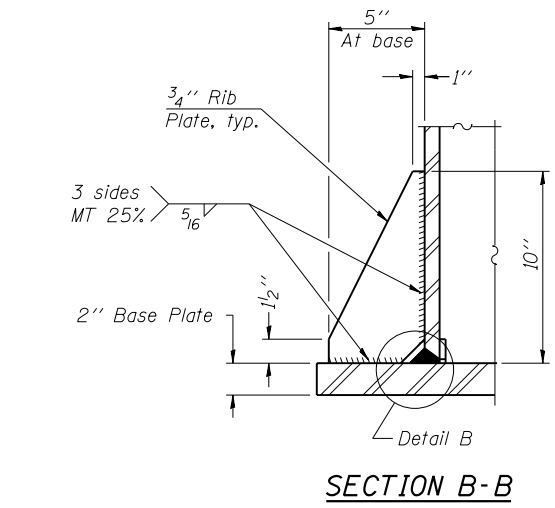
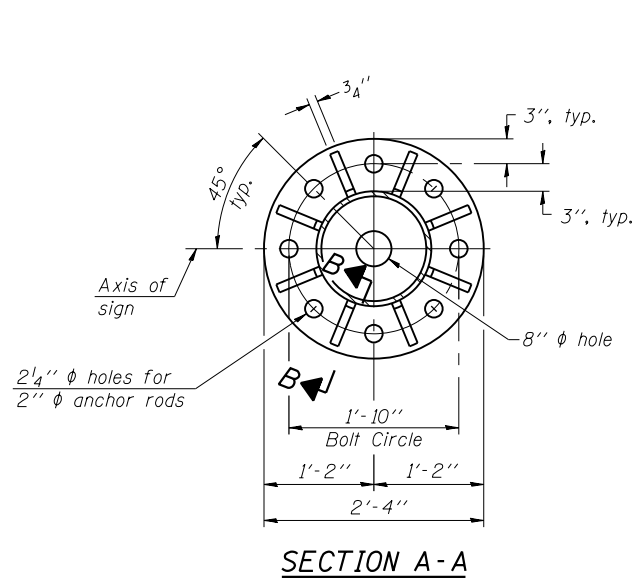
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS  
ALUMINUM TRUSS & STEEL POST

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	127
CONTRACT NO. 62C10				
ILLINOIS FED. AID PROJECT				

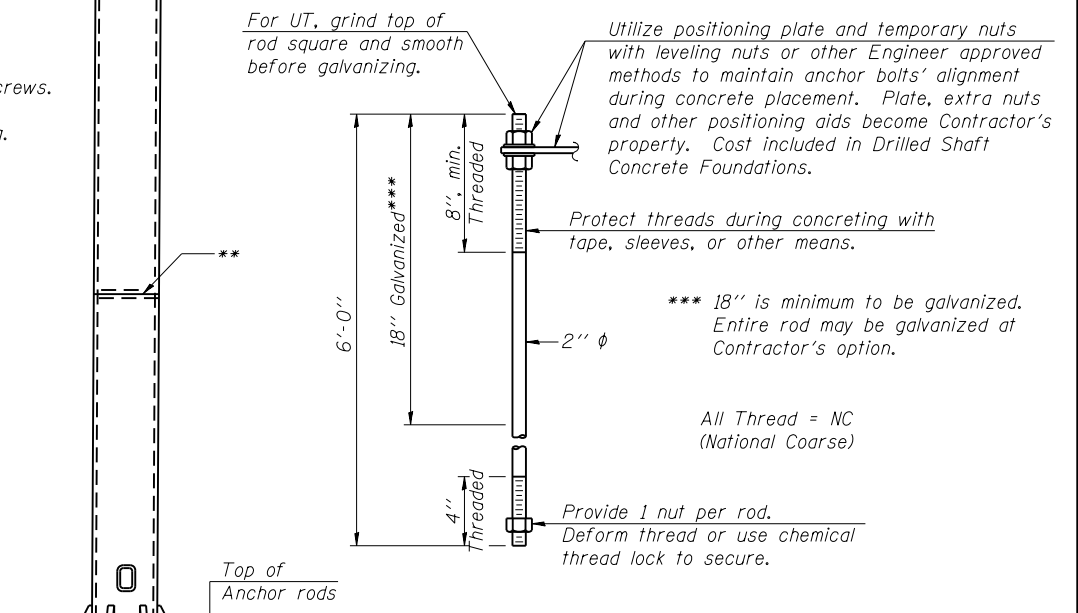
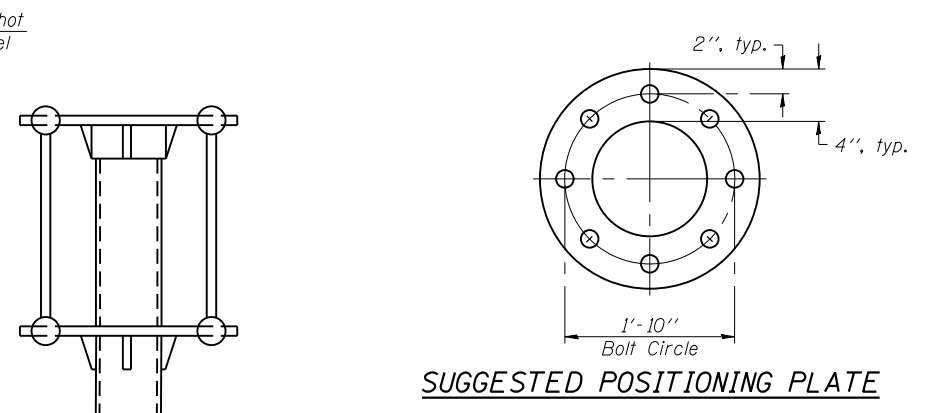


\* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500  $\mu$ in or less.

\*\* 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
IC0161094L042.2	28+50	22'-6"
IC0161094R041.8	43+05	22'-6"
IC0161094L036.2	348+20	22'-3"
IC0161094L035.4	387+00	22'-1"
IC0161094L030.9	616+50	22'-6"
IC0161094R030.4	642+00	21'-8"

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.

\*\*\* 18" is minimum to be galvanized. Entire rod may be galvanized at Contractor's option.

All Thread = NC (National Coarse)

Provide 1 nut per rod. Deform thread or use chemical thread lock to secure.

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

OSC-A-4

6-1-12

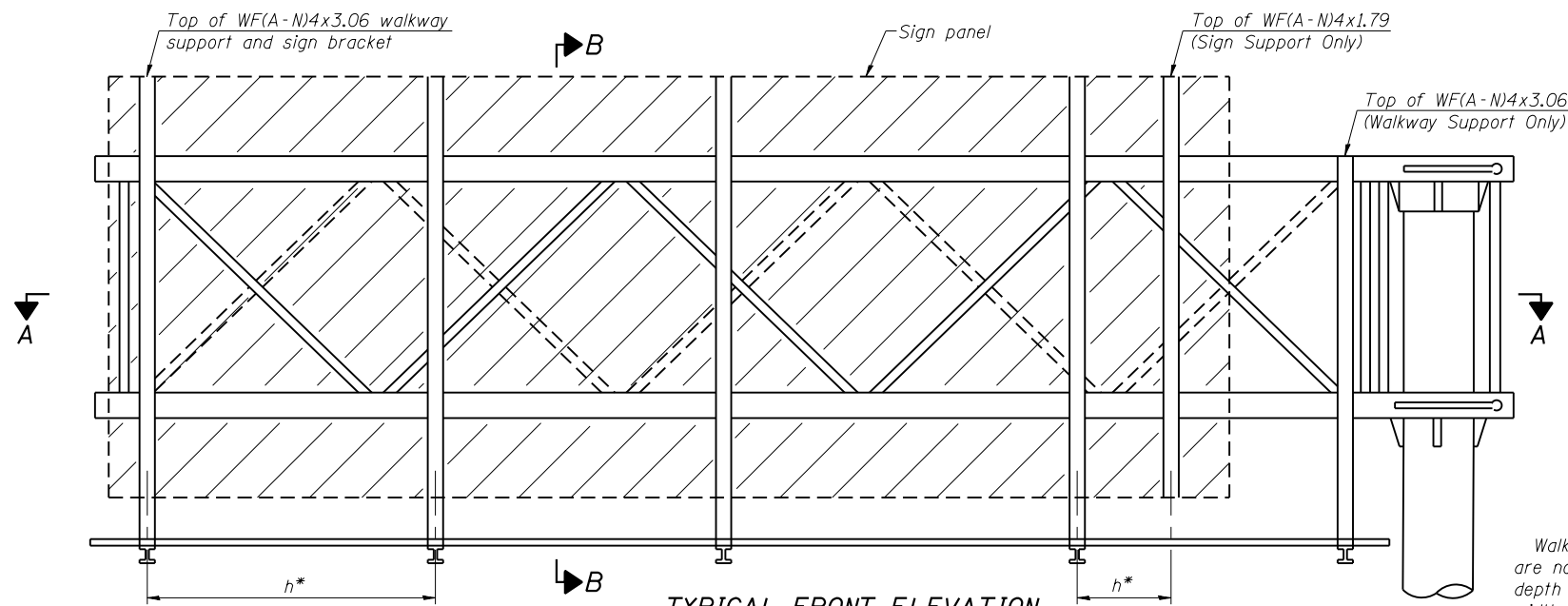
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		DRAWN - GEK	REVISED -
		CHECKED - MJL	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

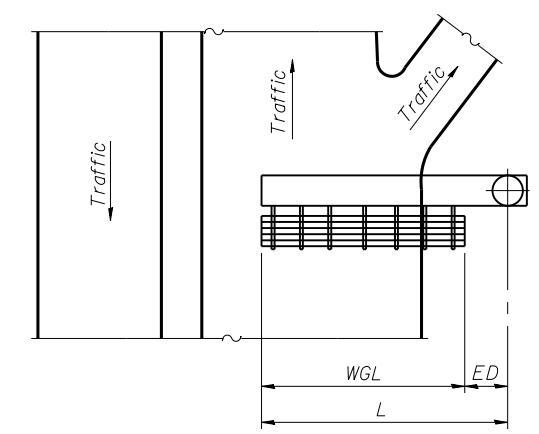
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	128
CONTRACT NO. 62C10				

ILLINOIS FED. AID PROJECT

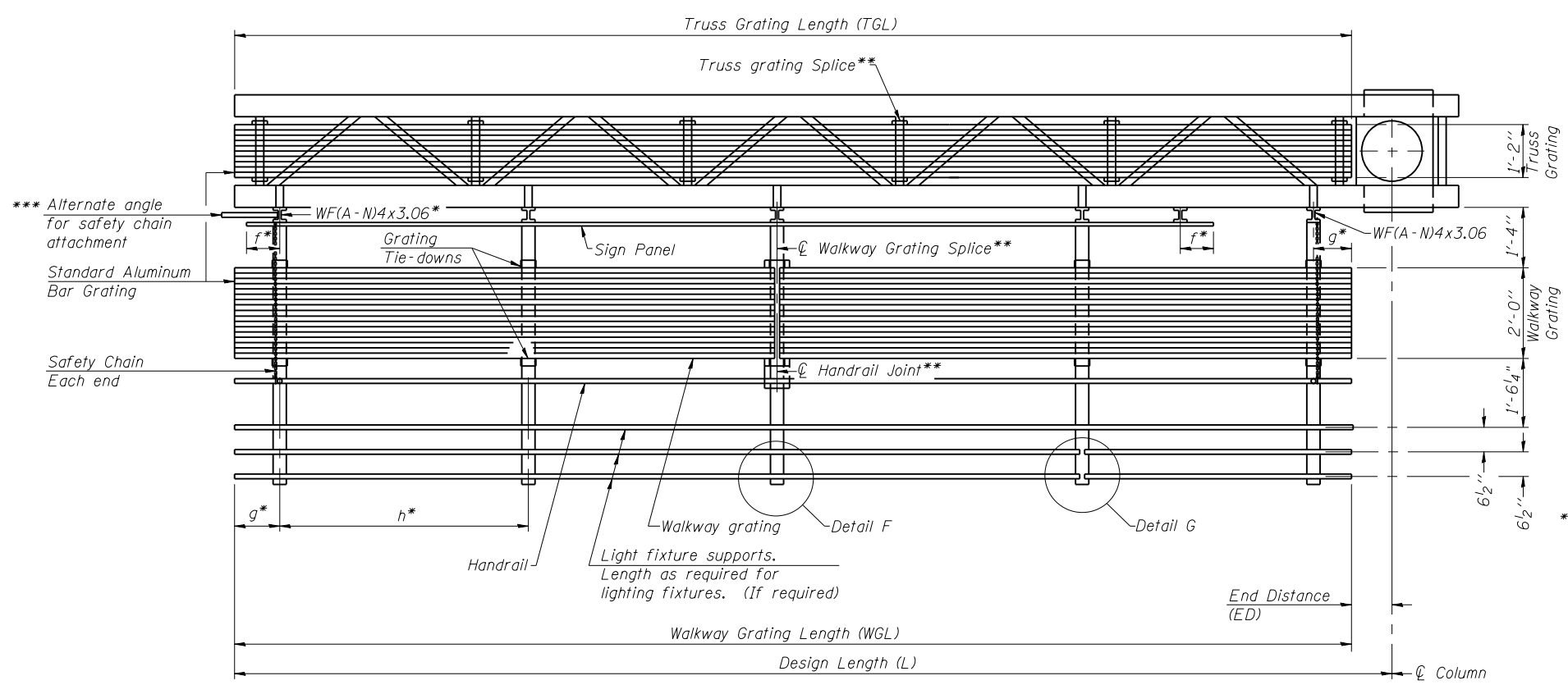


**TYPICAL FRONT ELEVATION**  
With lights and handrail omitted for clarity.

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



**PLAN WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath truss varies)



**SECTION A-A**

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.  
\*\* Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

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

Structure Number	Station	WGL	ED	TGL

Notes:  
\* Space walkway brackets WF(A-N)4x3.06 and 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)  
g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)  
h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)  
\*\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.  
For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.  
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

**BRACKET TABLE**

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

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

OSC-A-6

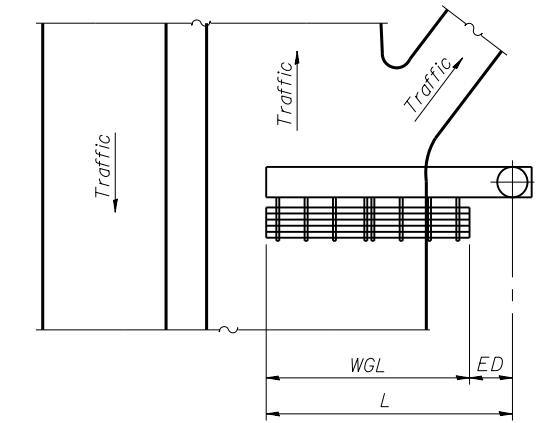
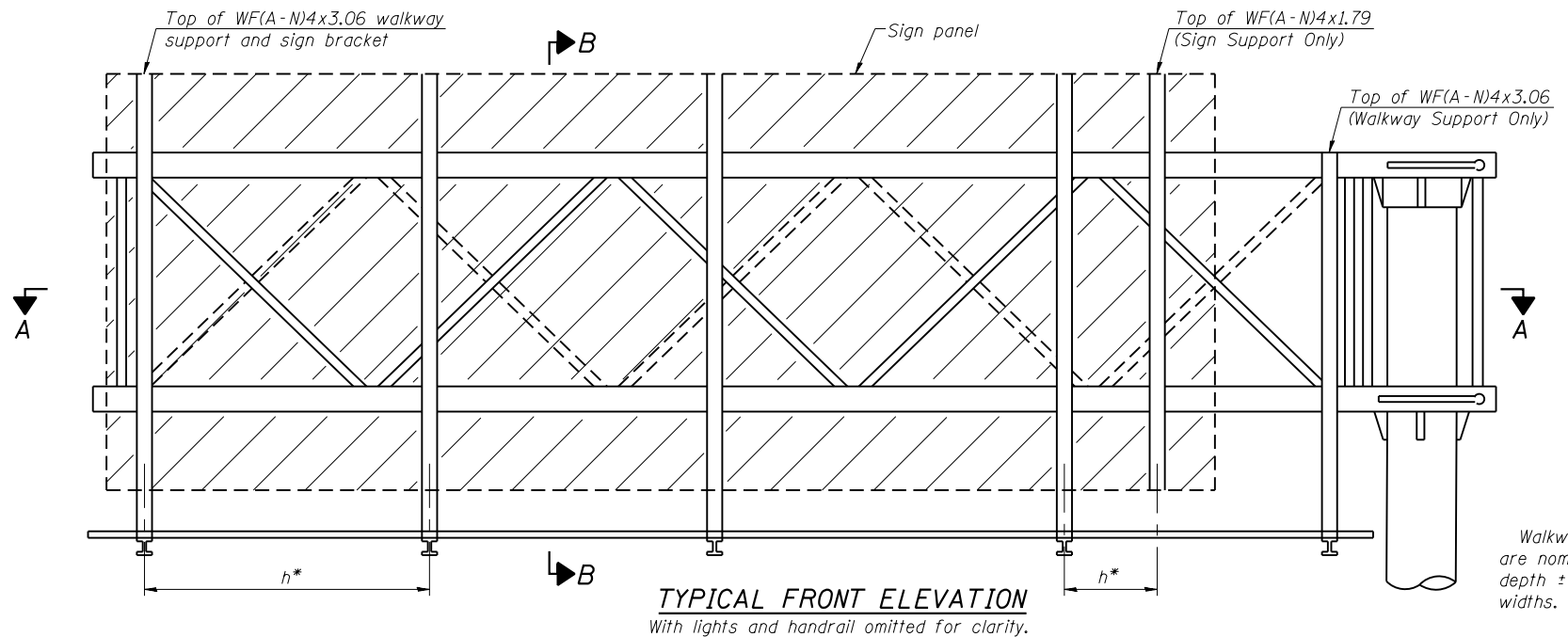
6-1-12

FILE NAME =	USER NAME =	DESIGNED - GEK	REVISED -
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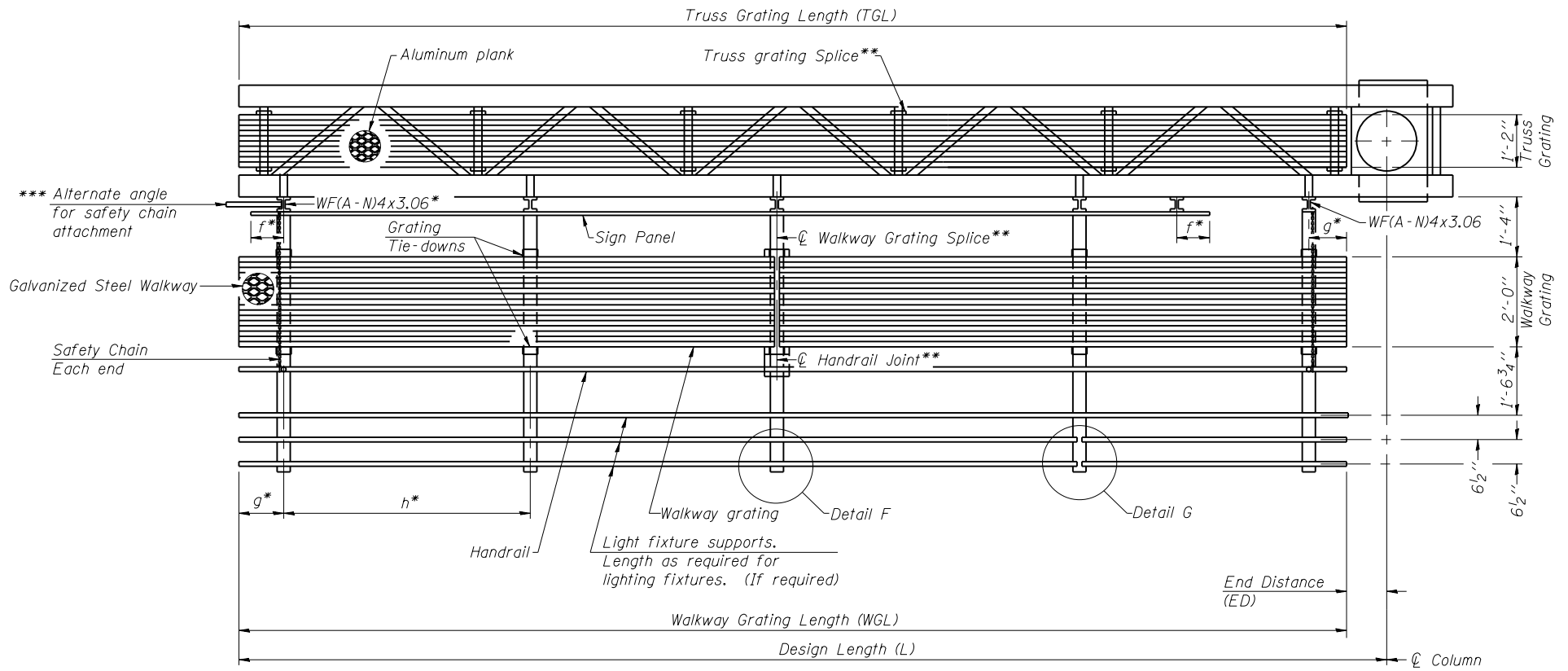
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY  
DETAILS - ALUMINUM TRUSS & STEEL POST**

F.A.I. RTE. 94	SECTION 2016-003I	COUNTY COOK	TOTAL SHEETS 168	SHEET NO. 129
CONTRACT NO. 62C10				
ILLINOIS FED. AID PROJECT				



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



Structure Number	Station	WGL	ED	TGL

Notes:  
 \* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:  
 $f = 12''$  maximum,  $4''$  minimum (End of sign to  $\phi$  of nearest bracket)  
 $g = 12''$  maximum,  $4''$  minimum (End of walkway to  $\phi$  of nearest bracket)  
 $h = 6'-0''$  maximum ( $\phi$  to  $\phi$  sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)  
 \*\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8.  
 For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7S.  
 For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.  
 \*\* Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

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

**BRACKET TABLE**

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

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

OSC-A-6S

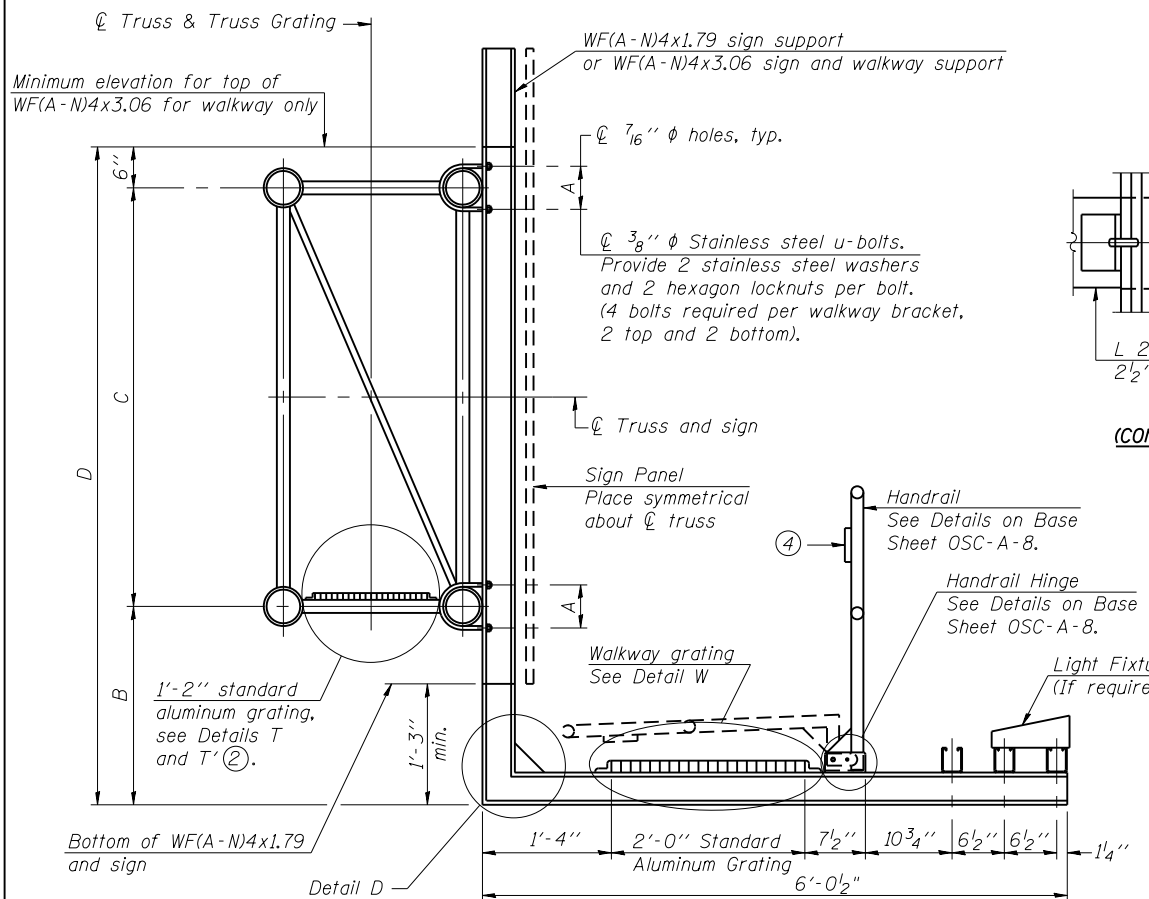
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STATE OF ILLINOIS  
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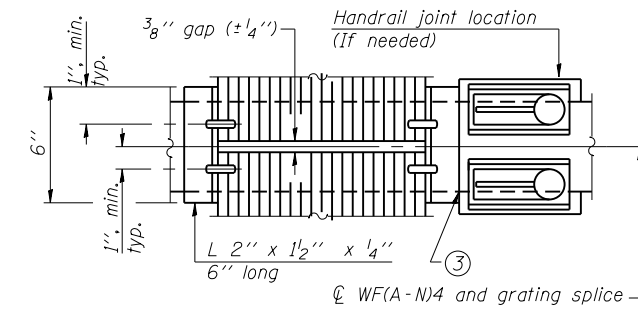
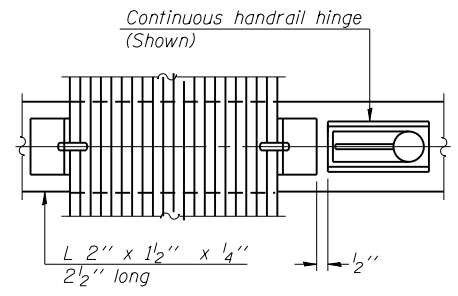
CANTILEVER SIGN STRUCTURES – ALTERNATE STEEL  
WALKWAY DETAILS – ALUMINUM TRUSS & STEEL POST

F.A.I. RTE. 94	SECTION 2016-003I	COUNTY COOK	TOTAL SHEETS 168	SHEET NO. 130
CONTRACT NO. 62C10				
ILLINOIS FED. AID PROJECT				



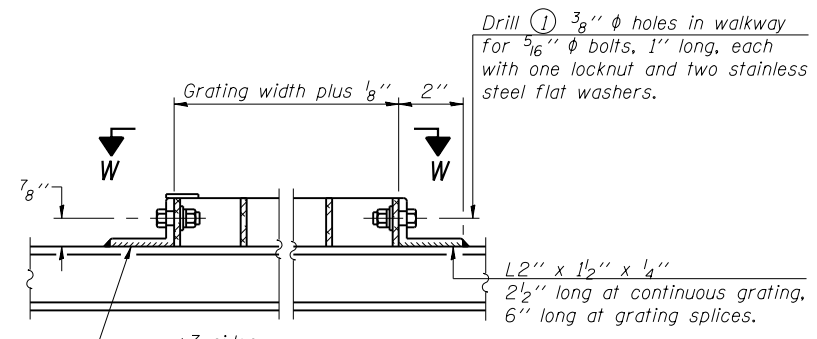
**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**  
 Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.  
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

**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.<sup>3</sup> 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.

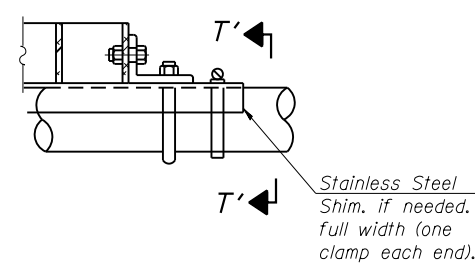


(CONTINUOUS WALKWAY GRATING)

(AT WALKWAY GRATING SPLICE)

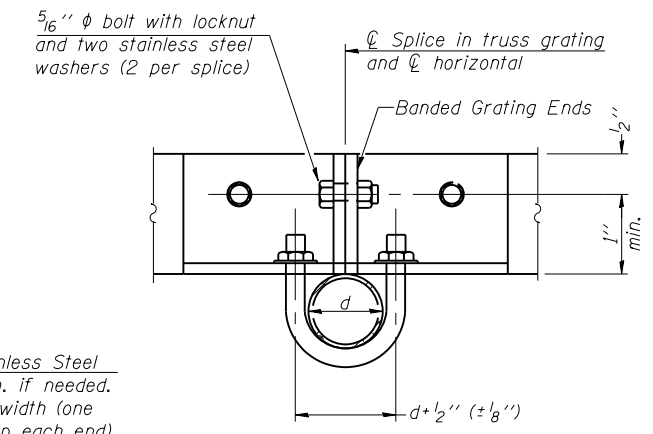


DETAIL W  
(Walkway grating)

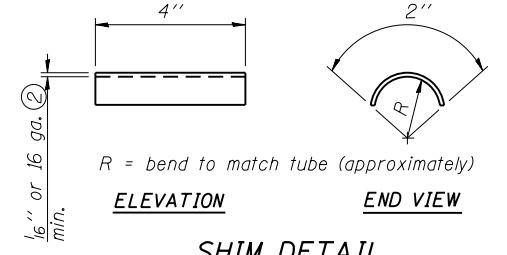


DETAIL T'

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



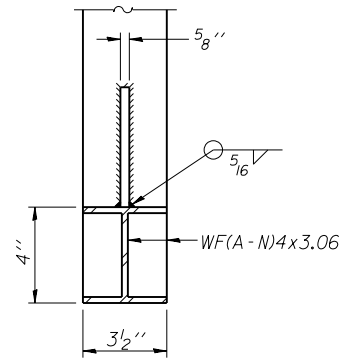
SECTION T'-T'



SHIM DETAIL

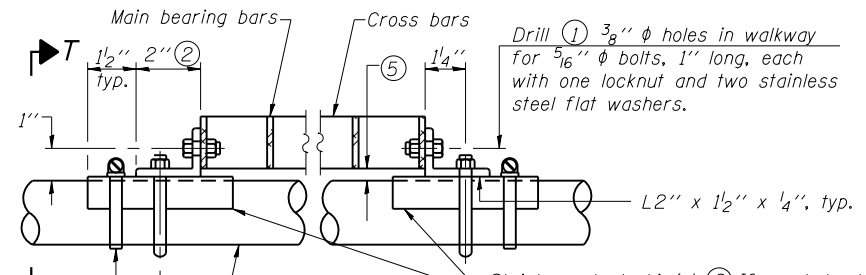
- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- ④ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- 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<sub>s</sub>, given on OSC-A-1.

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.



SECTION B-B

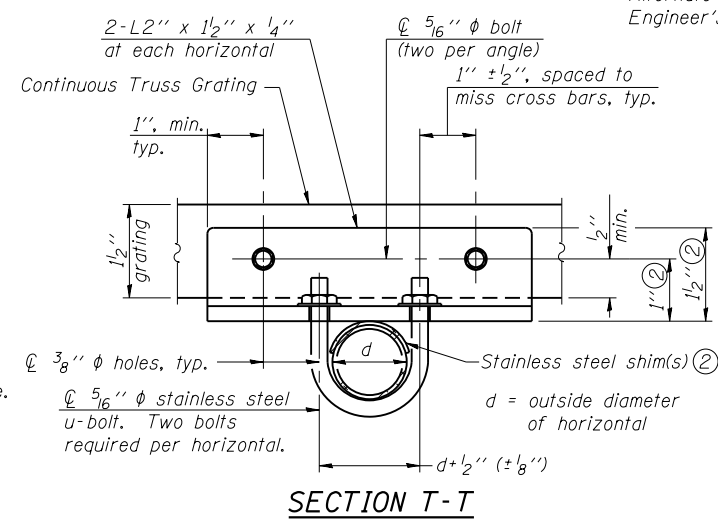
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



SECTION D-D

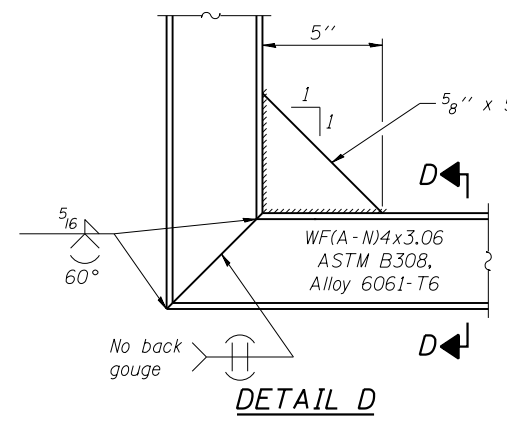
Screw type stainless steel tube clamp at shim location

Drill ① 3/8" diameter holes in walkway for 5/16" diameter bolts, 1" long, each with one locknut and two stainless steel flat washers.



SECTION T-T

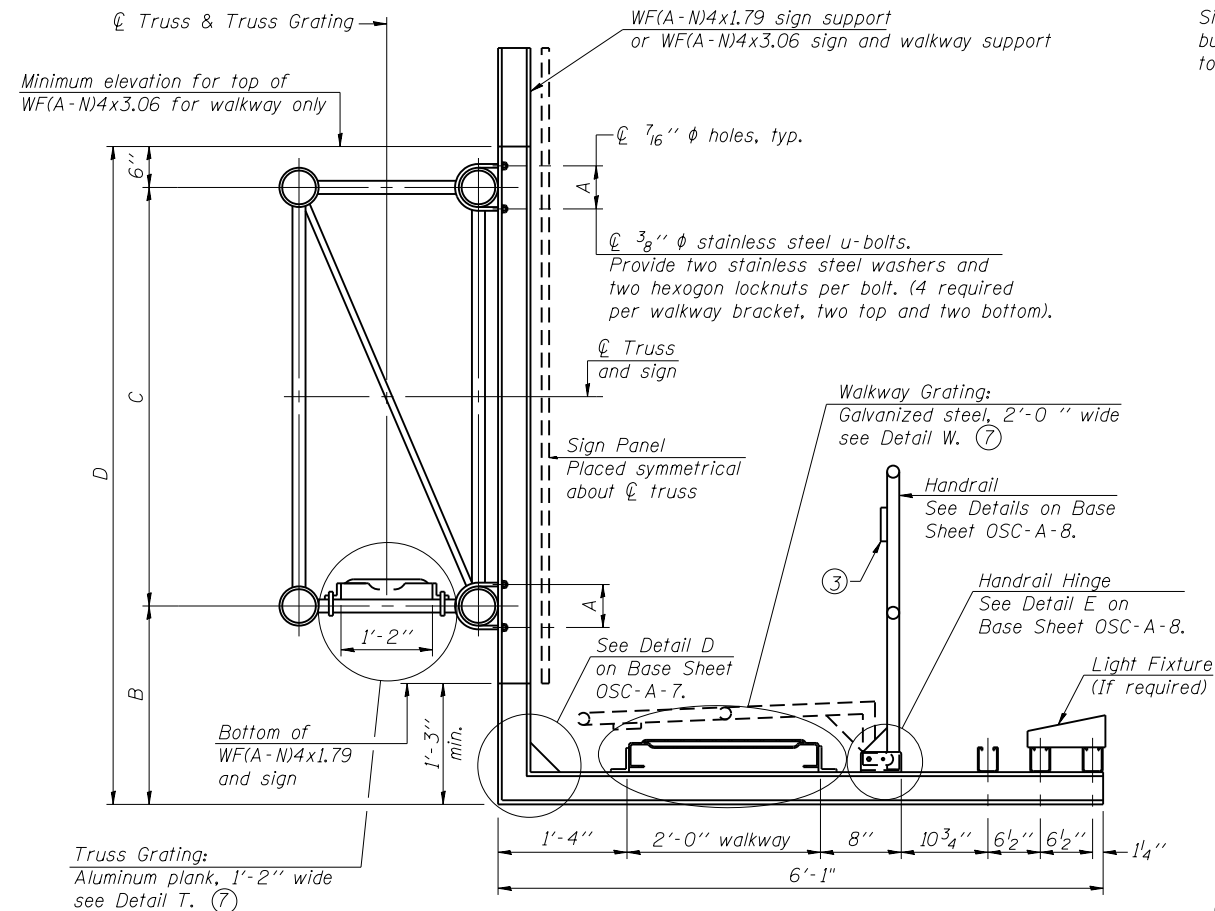
Structure Number	Station	A	⑥ B	C	⑥ D
IC0161094L042.2	28+50	5 1/2"		54"	
IC0161094R041.8	43+05	5 1/2"		54"	
IC0161094L036.2	348+20	5 1/2"		54"	
IC0161094L035.4	387+00	5 1/2"		54"	
IC0161094L030.9	616+50	5 1/2"		54"	
IC0161094R030.4	642+00	5 1/2"		54"	



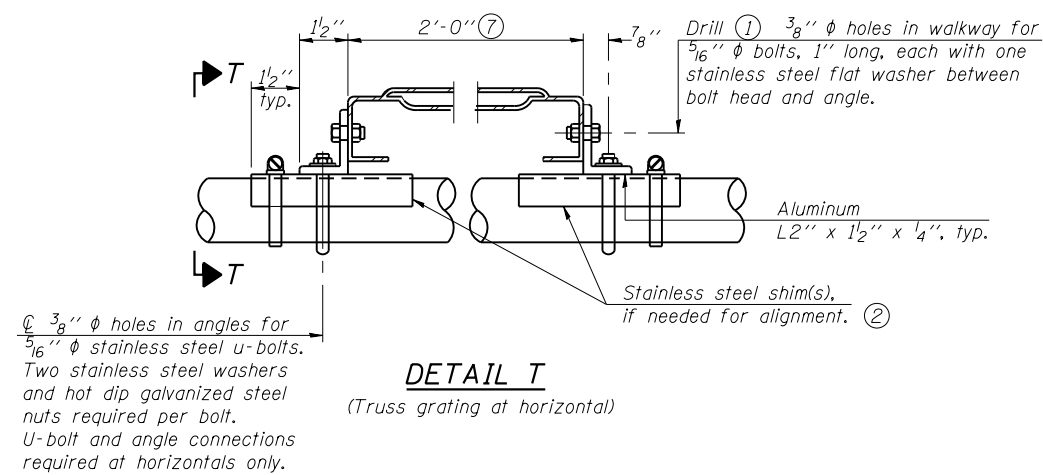
DETAIL T  
(Continuous Truss grating)

OSC-A-7

6-1-12

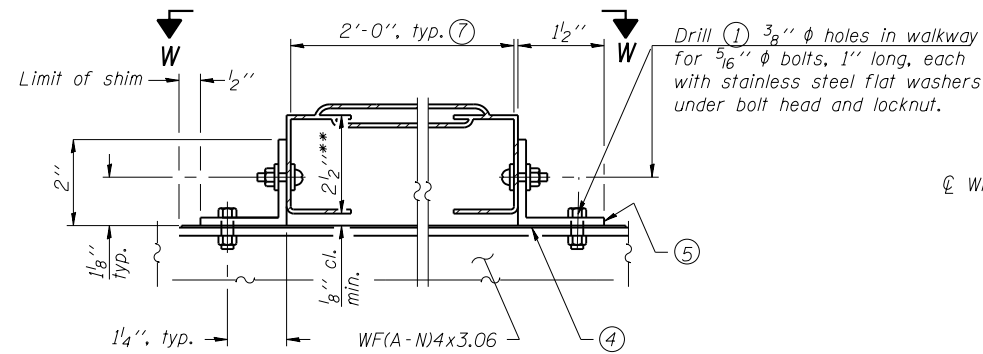


**SECTION B-B**

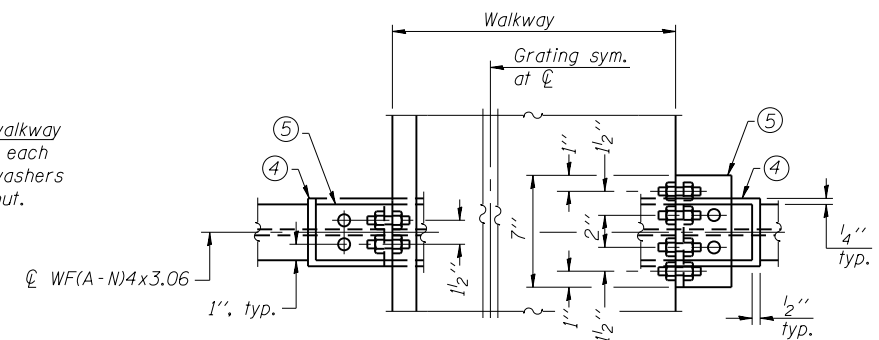


**DETAIL T**  
(Truss grating at horizontal)

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.

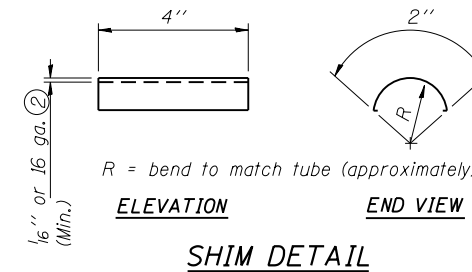


**DETAIL W**  
**GALVANIZED STEEL WALKWAY GRATING**



**WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE**

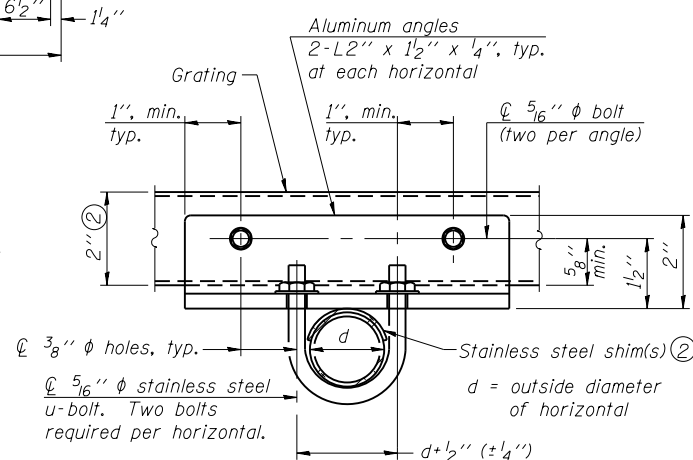
**SECTION W-W**



**ELEVATION**

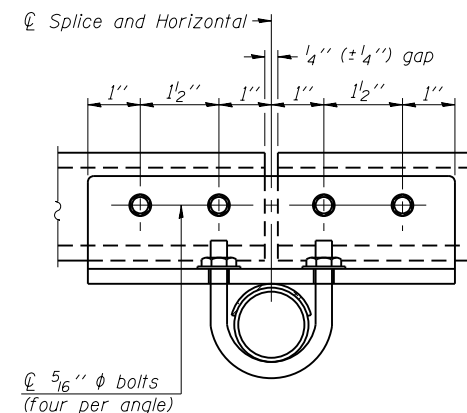
**END VIEW**

**SHIM DETAIL**



**SECTION T-T**  
(Truss Grating Continuous)

**ALUMINUM TRUSS GRATING**



**SECTION T-T**

(Truss Grating Splice)  
Alternate splice details and locations may be used subject to the Engineer's review and approval.

- 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 under angles at horizontals and horizontal diagonals if needed to compensate for alignment variations and differences in horizontal diagonal pipe sizes beyond adjustment provided by angles. Secure with one stainless steel clamp per location, see "Shim Detail". Thicker shim plates may be used when needed subject to shims performing properly.
- ③ 1/8 inch x 1/2 inch x 2 inch welded to handrail posts to protect locations that contact grating.
- ④ 1/16 inch (or 16 ga.) x 2 1/2 inch x 4 inch stainless steel shim adhered to top of WF(A-N)4x3.06 beneath each galvanized angle, typ. Adhesives for shims shall be suitable for materials joined and full exposure conditions.
- ⑤ Galvanized steel L2 inch x 2 inch x 1/4 inch, 3 1/2 inch long with continuous grating 7 inch long at grating splice.
- ⑥ Details shown are considered equal alternatives to Aluminum Walkway Details and may be substituted by Contractor at no charge in contract cost.
- ⑦ Perforated or expanded metal grating providing a skid resistant (non-serrated) surface and capable of supporting a 500 pound concentrated load with a 6'-0 inch clear span. Walkway and truss grating dimensions are nominal and may vary (width +/- 1/2 inch, depth +/- 1/2 inch) based on available standard sizes. Cut ends of grating shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.
- ⑧ Based on actual sign height, Ds, given on OSC-A-1.

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

Structure Number	Station	A	⑧ B	C	⑧ D
IC0161094L042.2	28+50	5 1/2"		54"	
IC0161094R041.8	43+05	5 1/2"		54"	
IC0161094L036.2	348+20	5 1/2"		54"	
IC0161094L035.4	387+00	5 1/2"		54"	
IC0161094L030.9	616+50	5 1/2"		54"	
IC0161094R030.4	642+00	5 1/2"		54"	

OSC-A-7S

6-1-12

FILE NAME =	USER NAME =	DESIGNED - GEK	REVISED -
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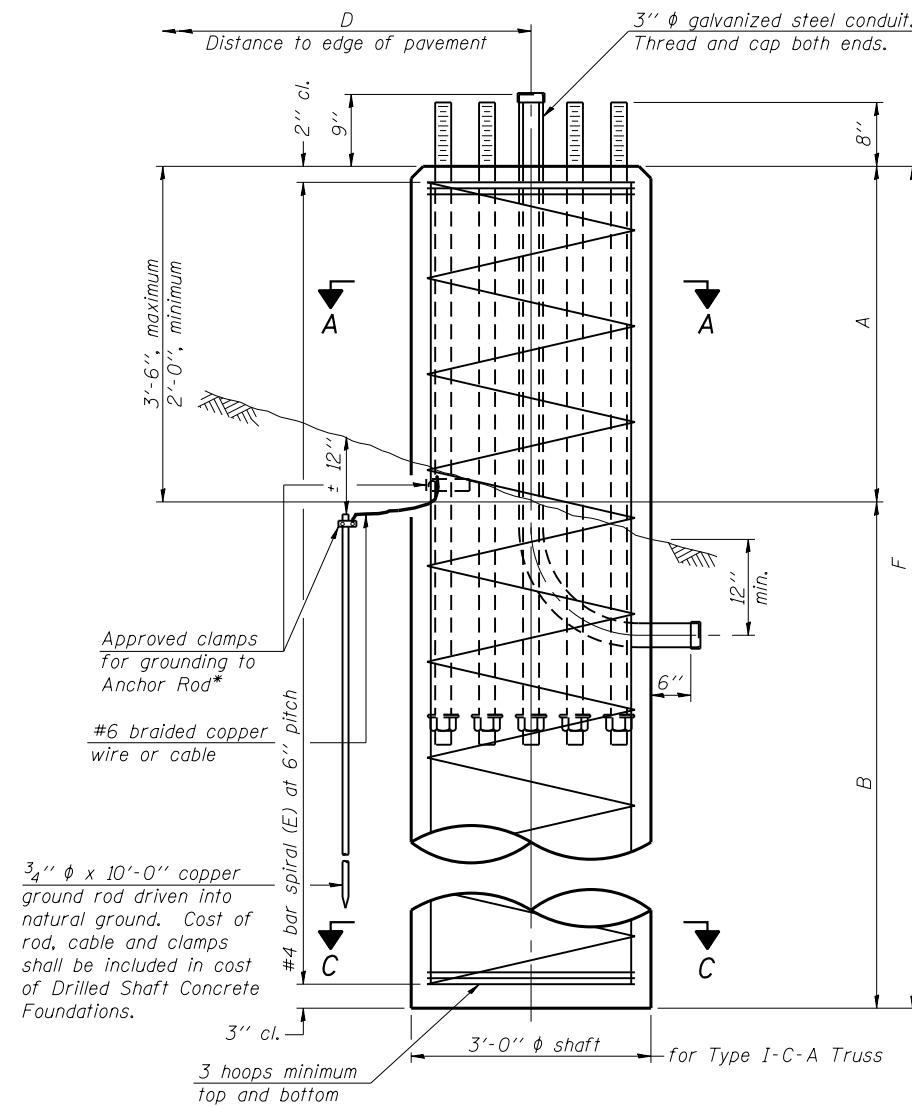
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES  
ALTERNATE WALKWAY DETAILS

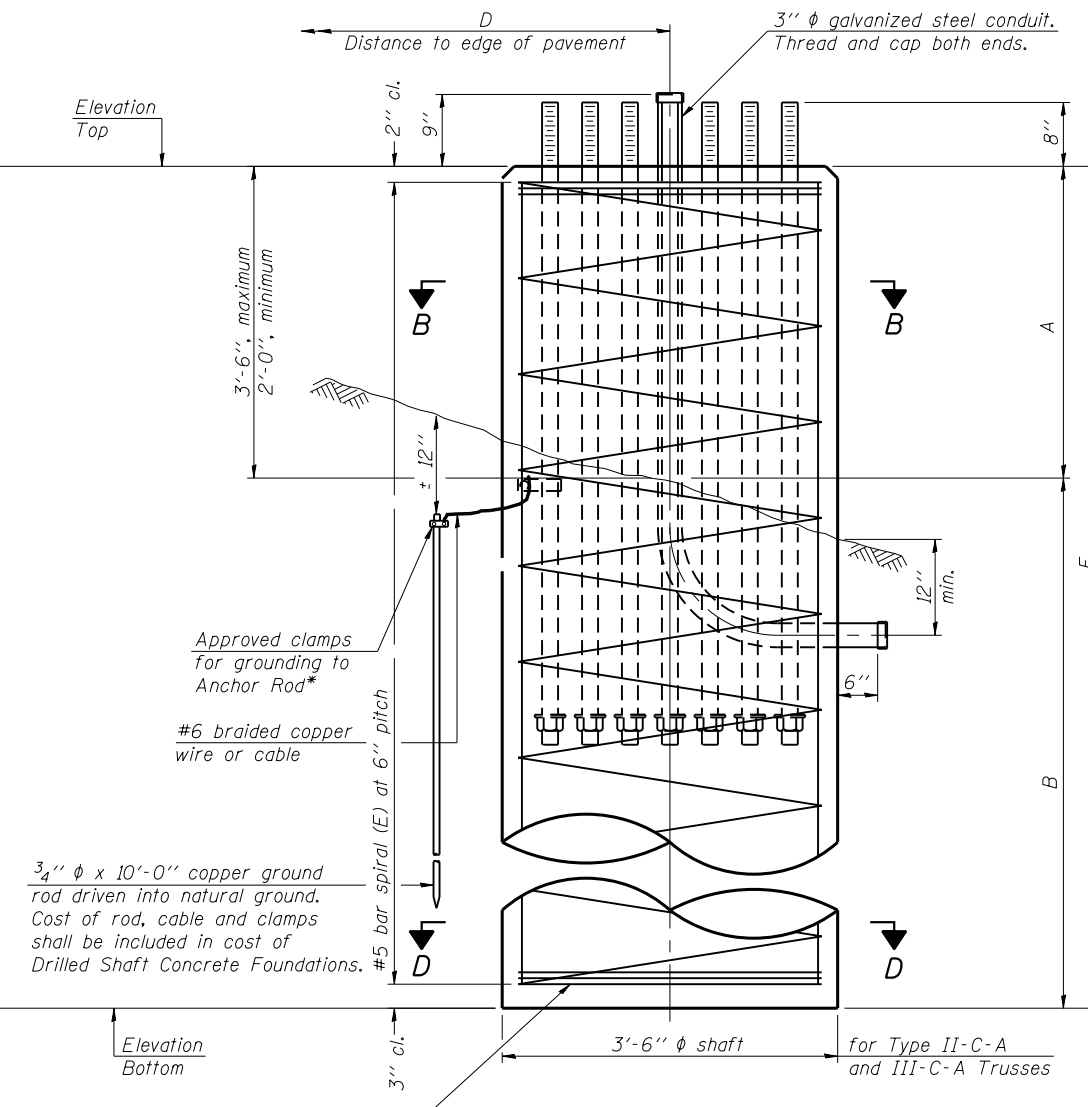
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	132
CONTRACT NO. 62C10				
ILLINOIS FED. AID PROJECT				



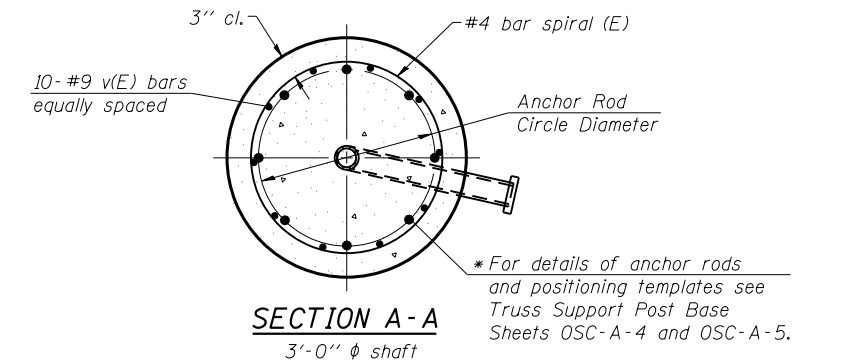
\* Grind anchor rod to bright finish at ground clamp location before installing clamp.



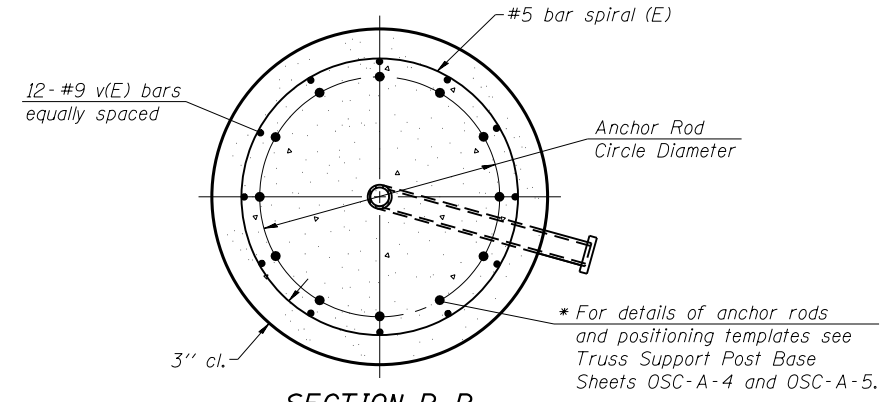
**ELEVATION**



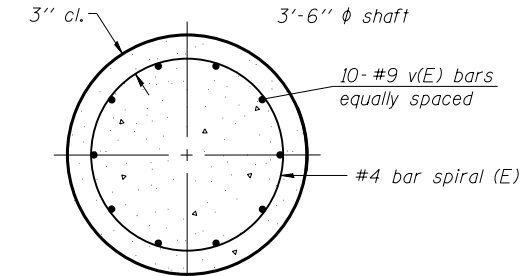
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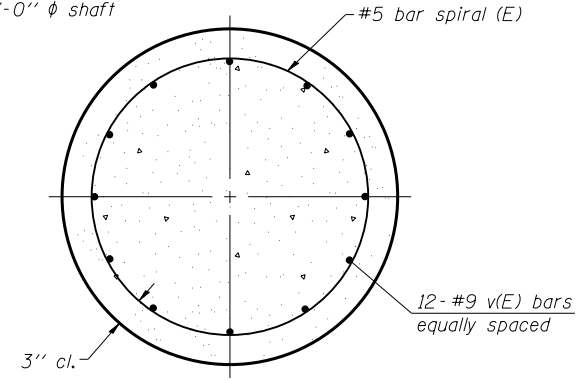
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**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 (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 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".

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

FOUNDATION DESIGN TABLE								
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

FOUNDATION DATA TABLE										
Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
IC0161094L042.2	28+50	I-C-A	3.0	620.29	602.29	3.0	2.0	16.0	18.0	4.7
IC0161094R041.8	43+05	I-C-A	3.0	625.20	606.70	2.4	2.5	16.0	18.5	4.8
IC0161094L036.2	348+20	I-C-A	3.0	651.88	633.38		2.5	16.0	18.5	4.8
IC0161094L035.4	387+00	I-C-A	3.0	621.37	601.37	1.3	2.0	18.0	20.0	5.2
IC0161094L030.9	616+50	I-C-A	3.0	631.07	612.07	2.2	2.0	16.0	18.0	4.7
IC0161094R030.4	642+00	I-C-A	3.0	630.13	612.13	2.6	2.0	16.0	18.0	4.7

OSC-A-9

8-21-13

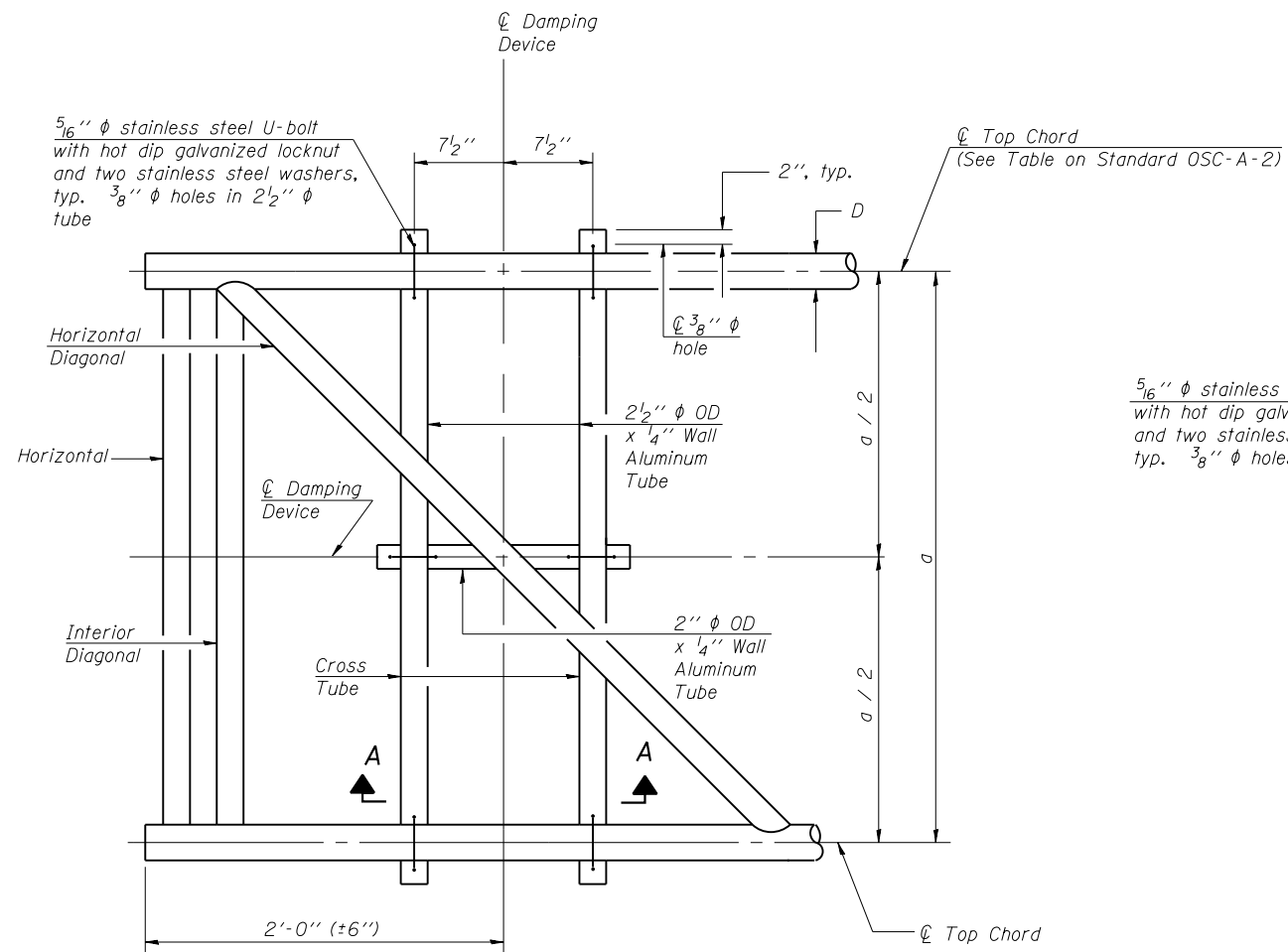
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

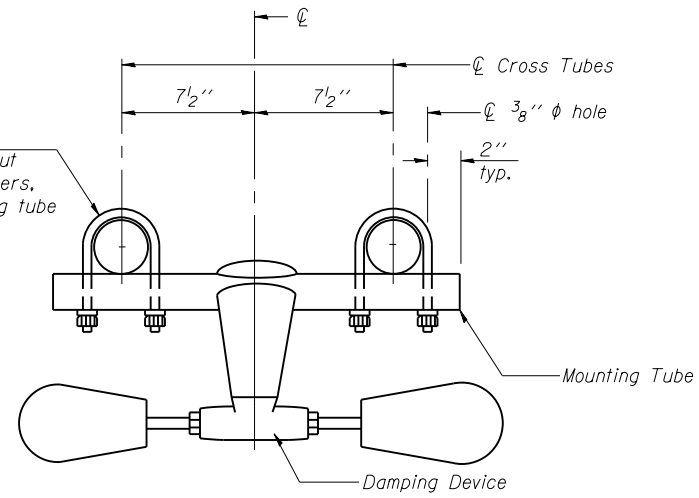
CANTILEVER SIGN STRUCTURES - DRILLED SHAFT  
ALUMINUM TRUSS & STEEL POST

F.A.I. RTE. 94	SECTION 2016-003I	COUNTY COOK	TOTAL SHEETS 168	SHEET NO. 133
CONTRACT NO. 62C10				

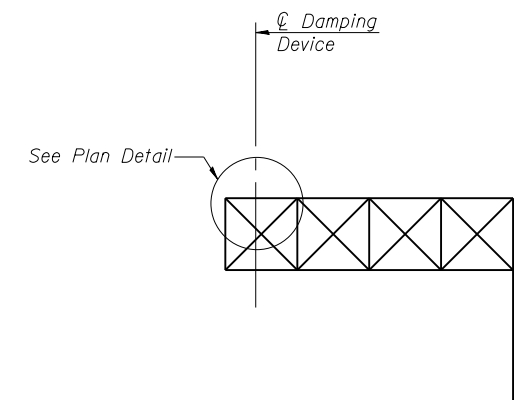
ILLINOIS FED. AID PROJECT



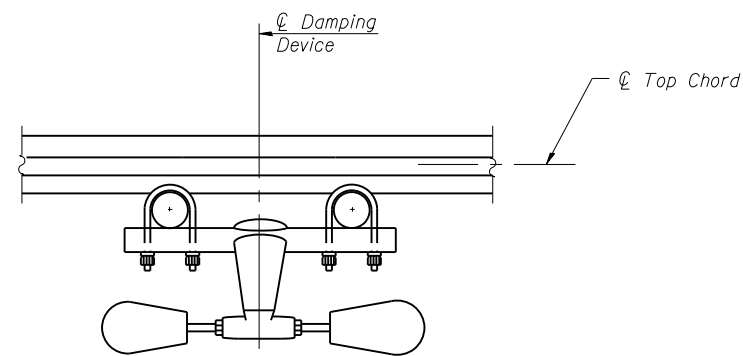
**PLAN DETAIL**



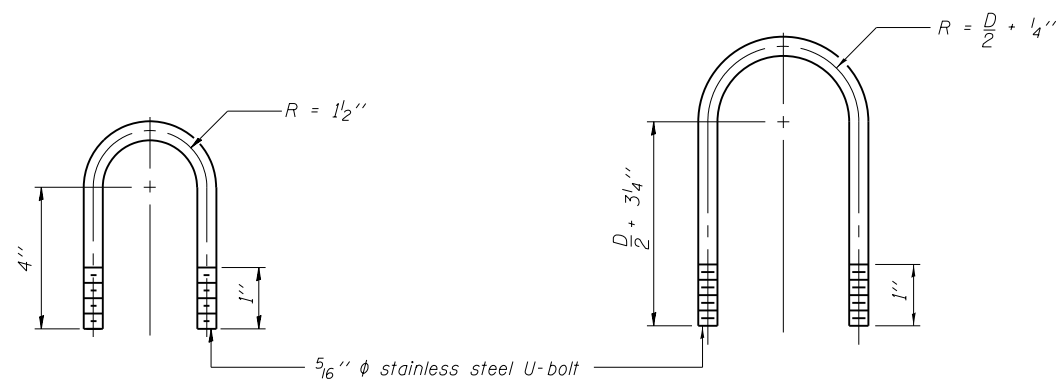
**TRUSS DAMPING DEVICE CONNECTION DETAIL**



**ELEVATION**  
Aluminum Cantilever Sign Structure



**SECTION A-A**



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
(Typical)

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

WALKWAY GRATING, HANDRAIL, AND LIGHT FIXTURE ARE NOT REQUIRED. TRUSS GRATING REQUIRED.

**GENERAL NOTES**

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

OSC-A-D

6-1-12

FILE NAME =	USER NAME =	DESIGNED - GEK	REVISED -
		CHECKED - MJL	REVISED -
		DRAWN - GEK	REVISED -
		CHECKED - MJL	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE  
DAMPING DEVICE

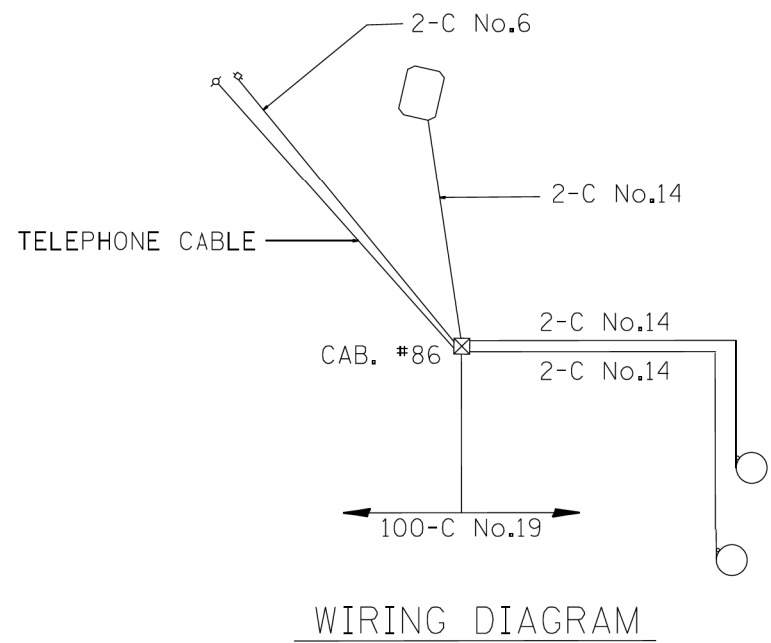
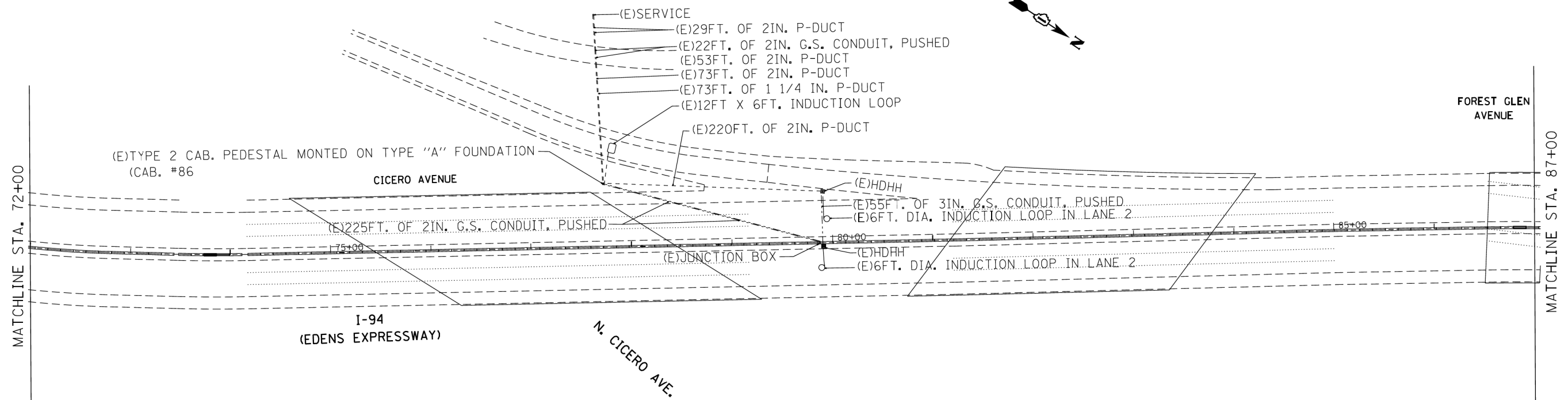
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	134
CONTRACT NO. 62C10				

ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOT AT THIS OFFICE	
	BY	
	FILE NAME	
	NO.	

HRG PROJECT NO.: 8650046.09  
 HRG PROJ. CONTACT: 8650046-09-sht-1-94-sht1.dgn  
 FILE NUMBER: 8650046-09-sht-1-94-sht1.dgn  
 PEN TABLE: p01tbl.tbl



SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bharto	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FOR INFORMATION ONLY  
SURVEILLANCE EQUIPMENT RECORD DRAWINGS**

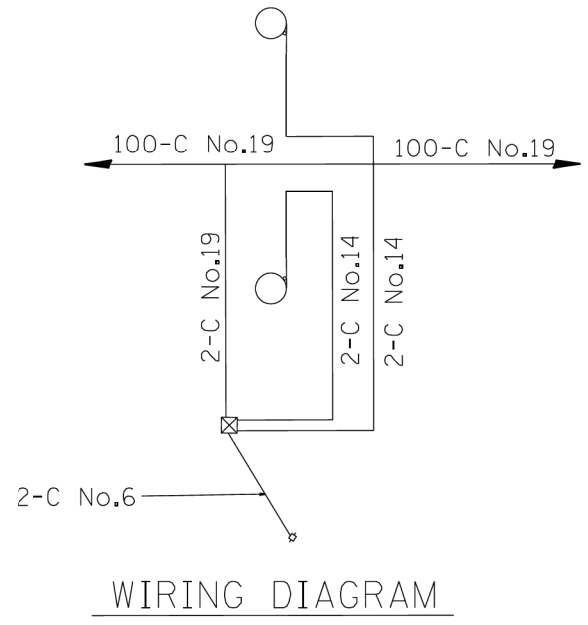
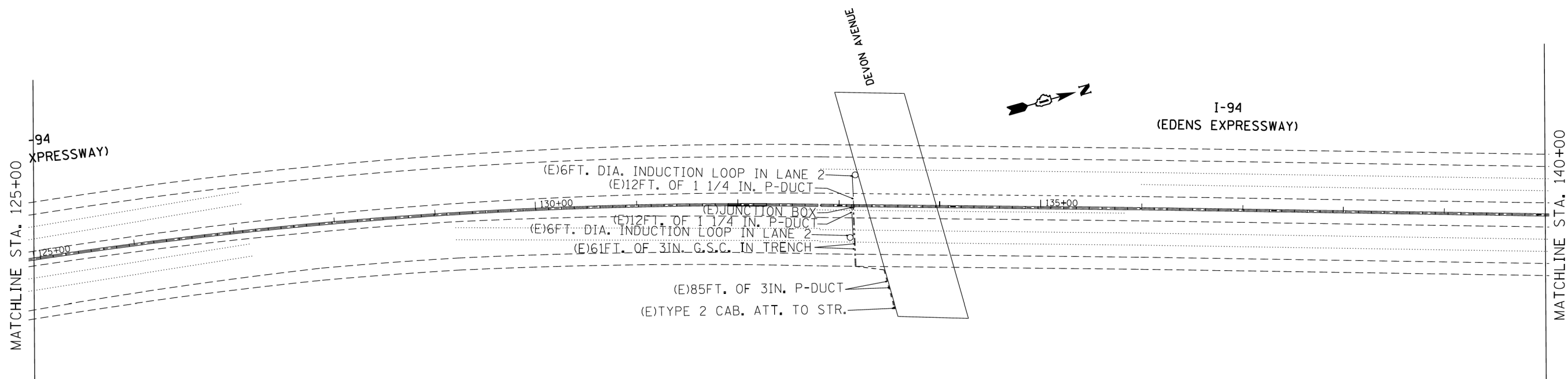
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	135
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	NO.	
	FILE NAME	

HRG PROJECT NO.: 8660046.09  
 HRG PROJ. CONTACT: 8660046-09-shr-194-shr2.dgn  
 FILE NUMBER: 8660046-09-shr-194-shr2.dgn  
 PEN TABLE: p01tbl.tbl



SYMBOL	LEGEND
[Symbol]	INDUCTION LOOP
[Symbol]	ROUND INDUCTION LOOP
[Symbol]	TSC CABINET
[Symbol]	TELEPHONE SERVICE
[Symbol]	SERVICE INSTALLATION
[Symbol]	JUNCTION BOX
[Symbol]	HEAVY DUTY HAND HOLE
[Symbol]	POLYETHYLENE DUCT
[Symbol]	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bharto	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

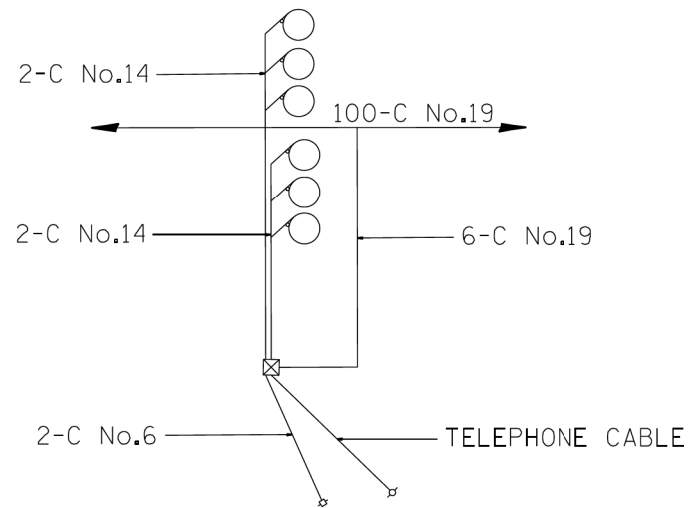
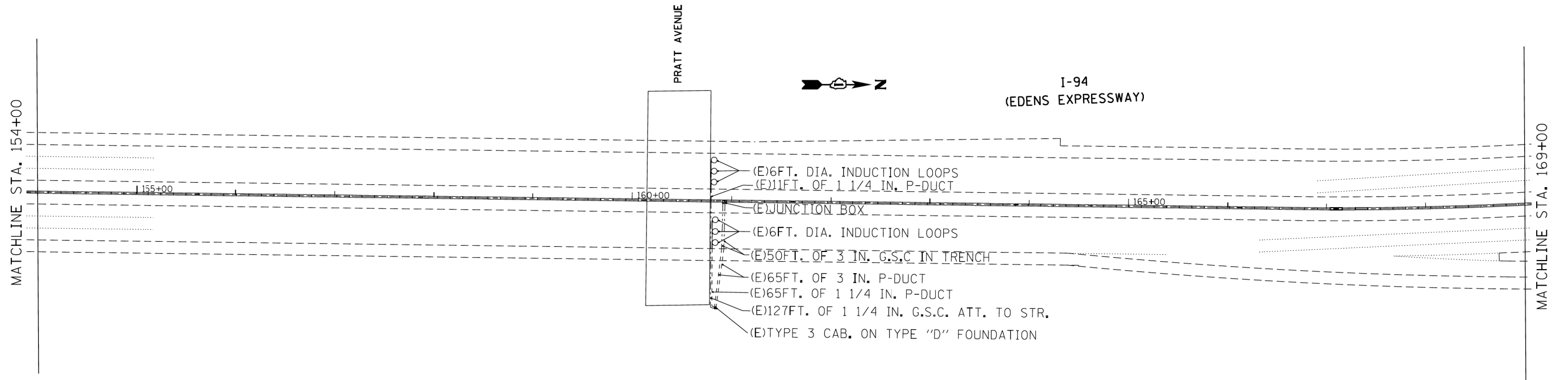
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY			
SURVEILLANCE EQUIPMENT RECORD DRAWINGS			
SCALE: N.T.S.	SHEET NO. 2 OF 17 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	136
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	BY	



WIRING DIAGRAM

SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE

HRG PROJECT NO.: 8660046.09  
 HRG PROJ. CONTACT: 8660046-09-sht-1-94-sht-3.dgn  
 FILE NUMBER: 8660046-09-sht-1-94-sht-3.dgn  
 PEN TABLE: p01tbl.tbl



USER NAME = bhartna	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY  
SURVEILLANCE EQUIPMENT RECORD DRAWINGS

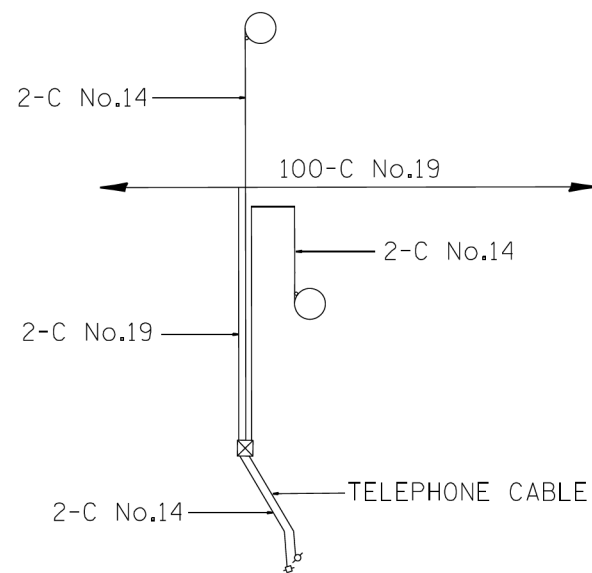
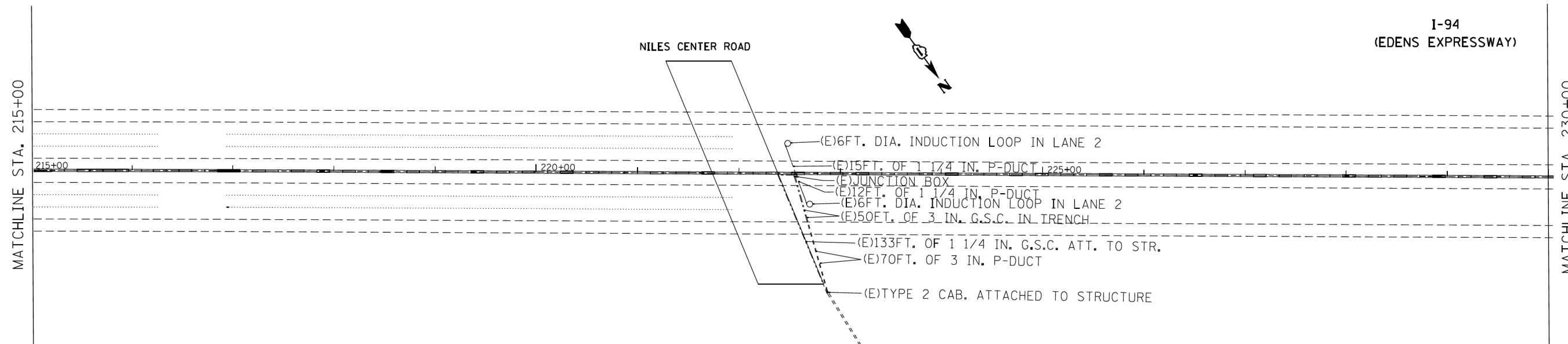
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	137
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	BY	
	NO. _____	
	FILE NAME	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	BY	
	NO. _____	
	FILE NAME	
	CADD FILE NAME	

HRG PROJECT NO.: 8660046.09  
 HRG PROJ. CONTACT: 8660046-09-sht-1-94-sht-4.dgn  
 FILE NUMBER: 8660046-09-sht-1-94-sht-4.dgn  
 PEN TABLE: p01tbl.tbl



WIRING DIAGRAM

SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bhartm	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

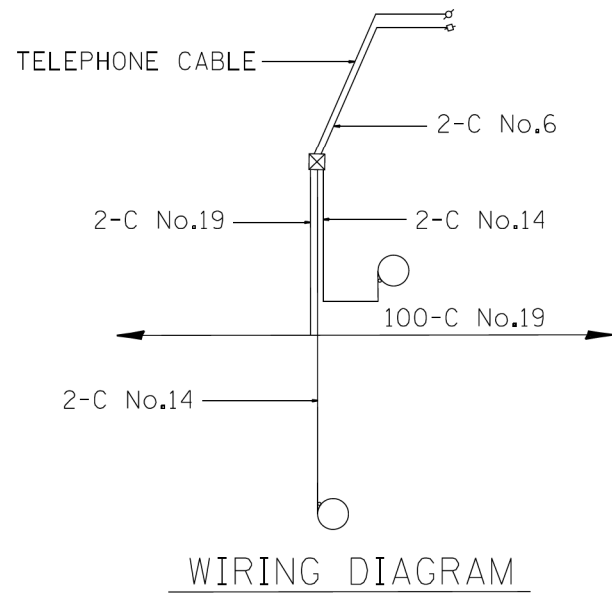
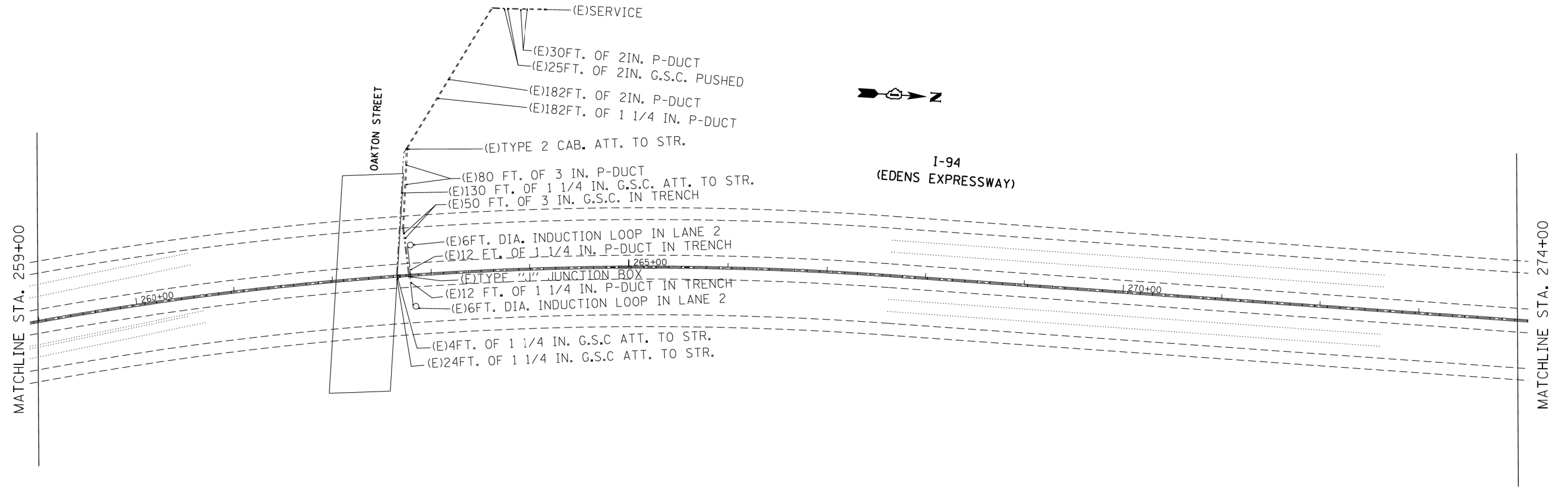
FOR INFORMATION ONLY  
 SURVEILLANCE EQUIPMENT RECORD DRAWINGS

SCALE: N.T.S. SHEET NO. 4 OF 17 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	138
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNMENT	
	CHECKED	
	FILE NAME	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	



SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE

HRG PROJECT NO.: 8650046.09  
 HRG PROJ. CONTACT: 8650046-09-sht-1-94-sht-5.dgn  
 FILE NUMBER: 8650046-09-sht-1-94-sht-5.dgn  
 PEN TABLE: p01tbl.tbl



USER NAME = bhartna	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

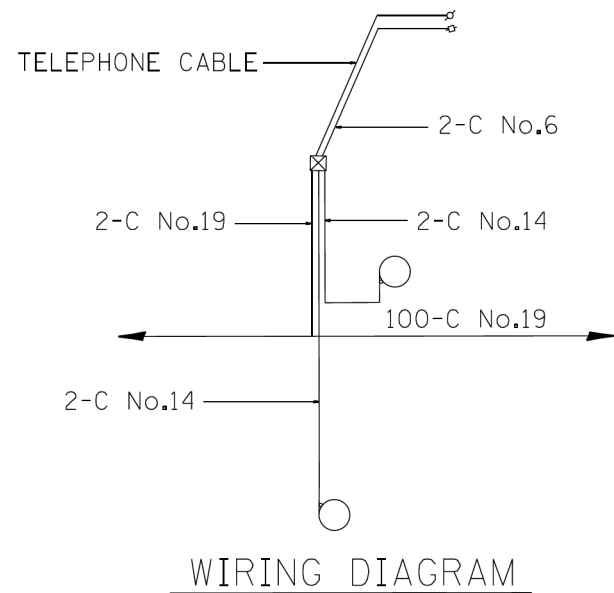
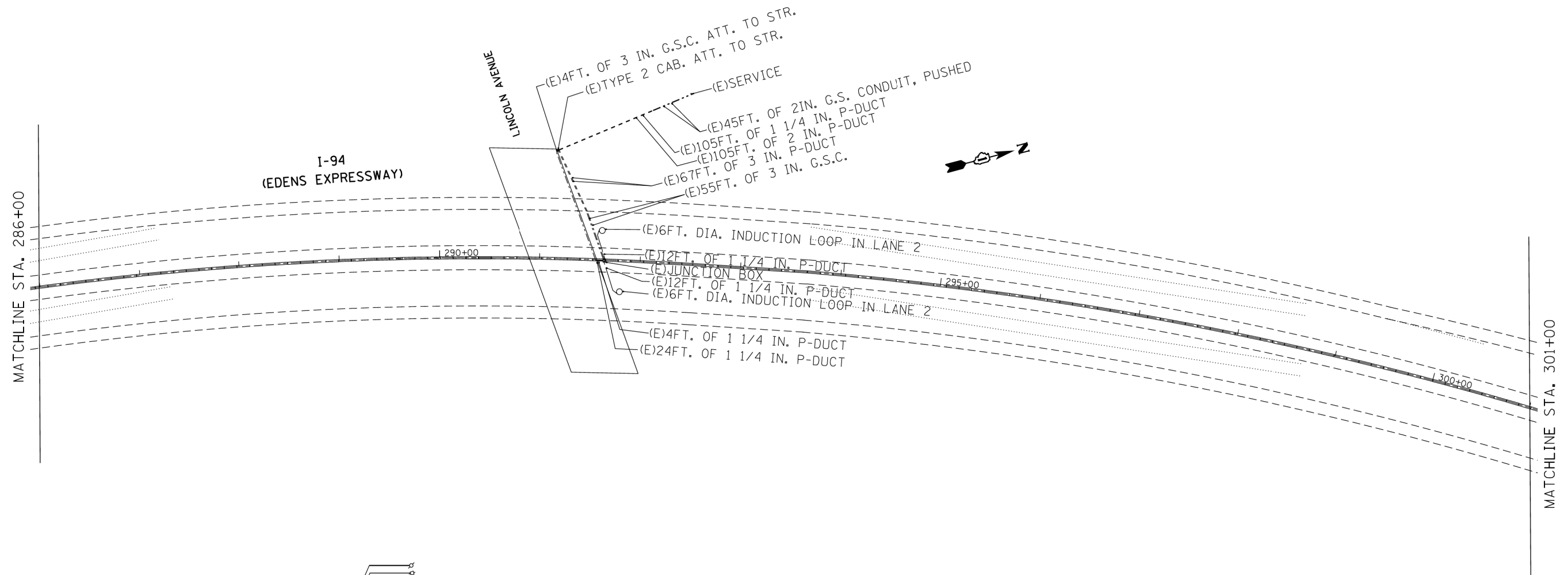
**FOR INFORMATION ONLY**  
**SURVEILLANCE EQUIPMENT RECORD DRAWINGS**  
 SCALE: N.T.S. SHEET NO. 5 OF 17 SHEETS STA. TO STA.

F.A.U. R.E.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	139
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

HRG PROJECT NO.: 8650046.09  
 HRG PROJ. CONTACT: 8650046-09-sht-194-srv-6.dgn  
 FILE NUMBER: 8650046-09-sht-194-srv-6.dgn  
 PEN TABLE:



SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bhartna	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY  
 SURVEILLANCE EQUIPMENT RECORD DRAWINGS

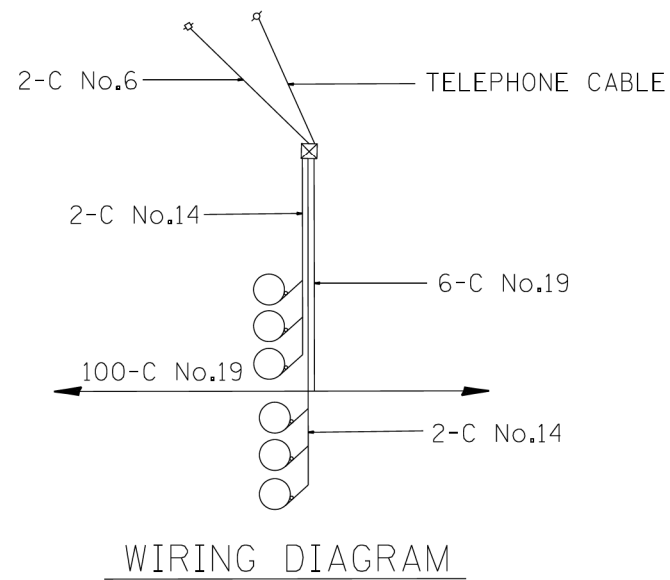
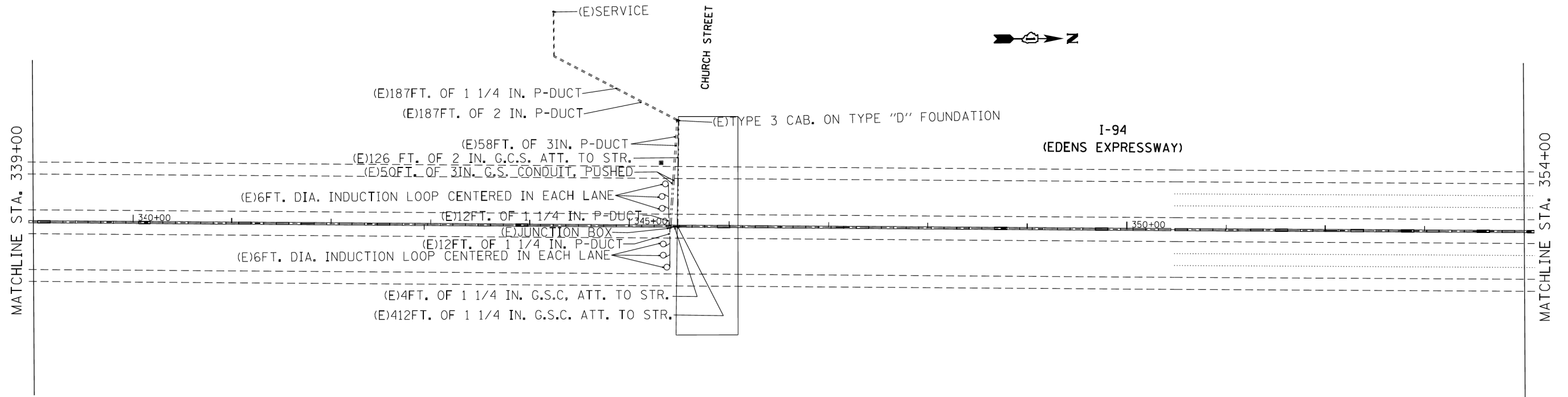
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	140
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		
	DATE		



SYMBOL	LEGEND
□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊠	TSC CABINET
⊕	TELEPHONE SERVICE
⊞	SERVICE INSTALLATION
⊞	JUNCTION BOX
⊞	HEAVY DUTY HAND HOLE
---	POLYETHYLENE DUCT
---	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE

HRG PROJECT NO.: 8660046.09  
 HRG PROJ. CONTACT: 8660046-09-sht-194-sht7.dgn  
 FILE NUMBER: 8660046-09-sht-194-sht7.dgn  
 PEN TABLE: p01tbl.tbl



USER NAME = bhartma	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FOR INFORMATION ONLY  
SURVEILLANCE EQUIPMENT RECORD DRAWINGS**

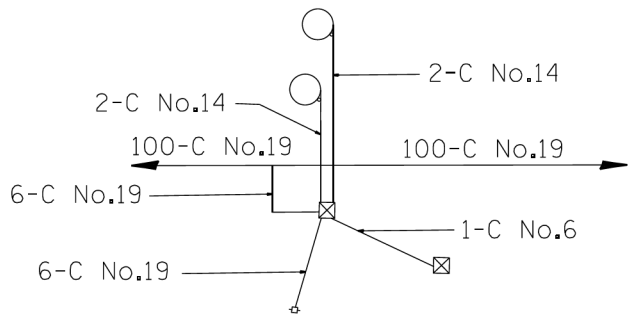
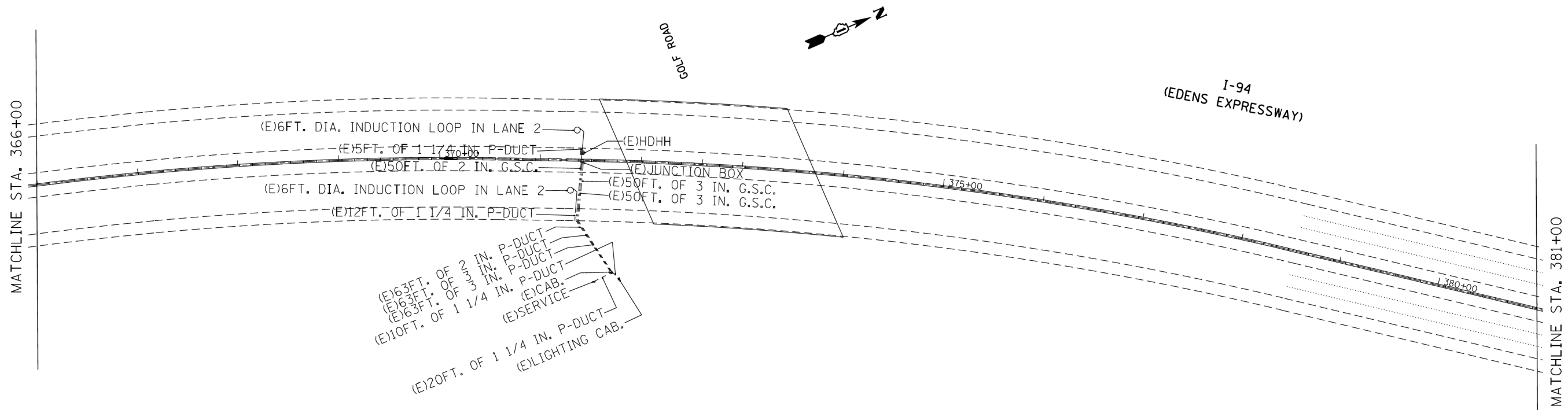
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	141
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	
	FILE NO.	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	FILE NAME	
	FILE NO.	
	DATE	

HRG PROJECT NO.: 8650046.09  
 HRG PROJ. CONTACT: 8650046-09-sht-1-94-sht-8.dgn  
 FILE NUMBER: 8650046-09-sht-1-94-sht-8.dgn  
 PEN TABLE: p01tbl.tbl



WIRING DIAGRAM

SYMBOL	LEGEND
□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊗	TSC CABINET
⊖	TELEPHONE SERVICE
⊞	SERVICE INSTALLATION
⊠	JUNCTION BOX
⊞	HEAVY DUTY HAND HOLE
---	POLYETHYLENE DUCT
- - - -	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
⊞	INSTALL
(R)	REMOVE



USER NAME = bhartna	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

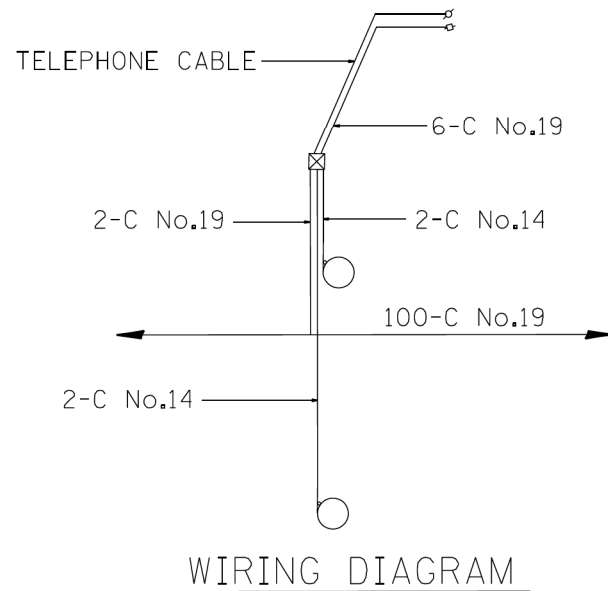
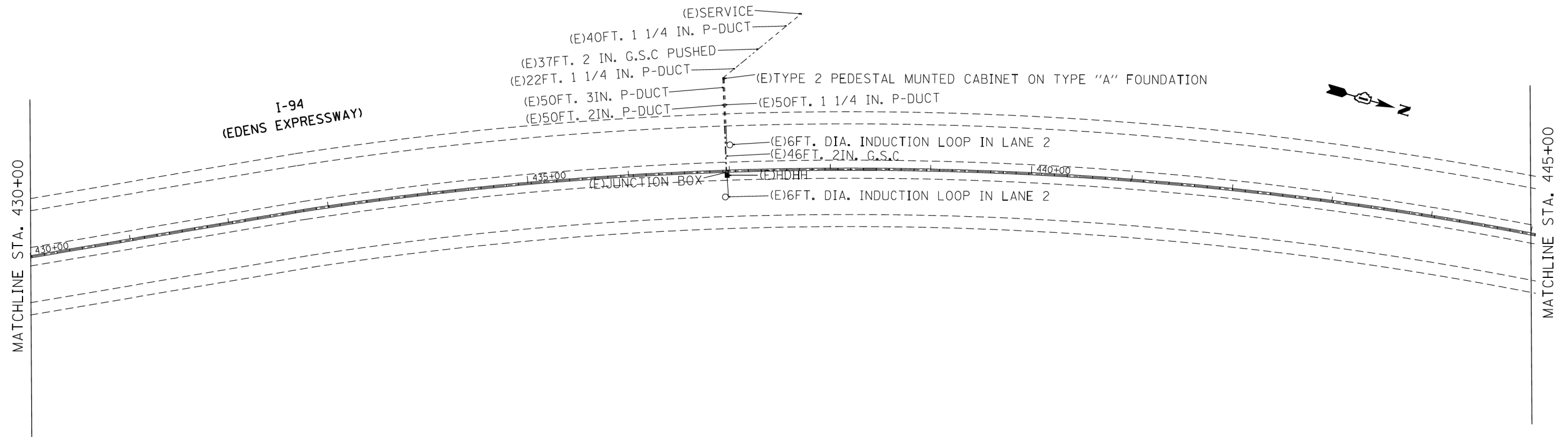
FOR INFORMATION ONLY			
SURVEILLANCE EQUIPMENT RECORD DRAWINGS			
SCALE: N.T.S.	SHEET NO. 8 OF 17 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	142
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

HRG PROJECT NO.: 8660046.09  
 HRG PROJ. CONTACT: 8660046-09-sht-1-94-sht-9.dgn  
 FILE NUMBER: 8660046.dwg  
 PEN TABLE:



SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bhartna	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY  
 SURVEILLANCE EQUIPMENT RECORD DRAWINGS

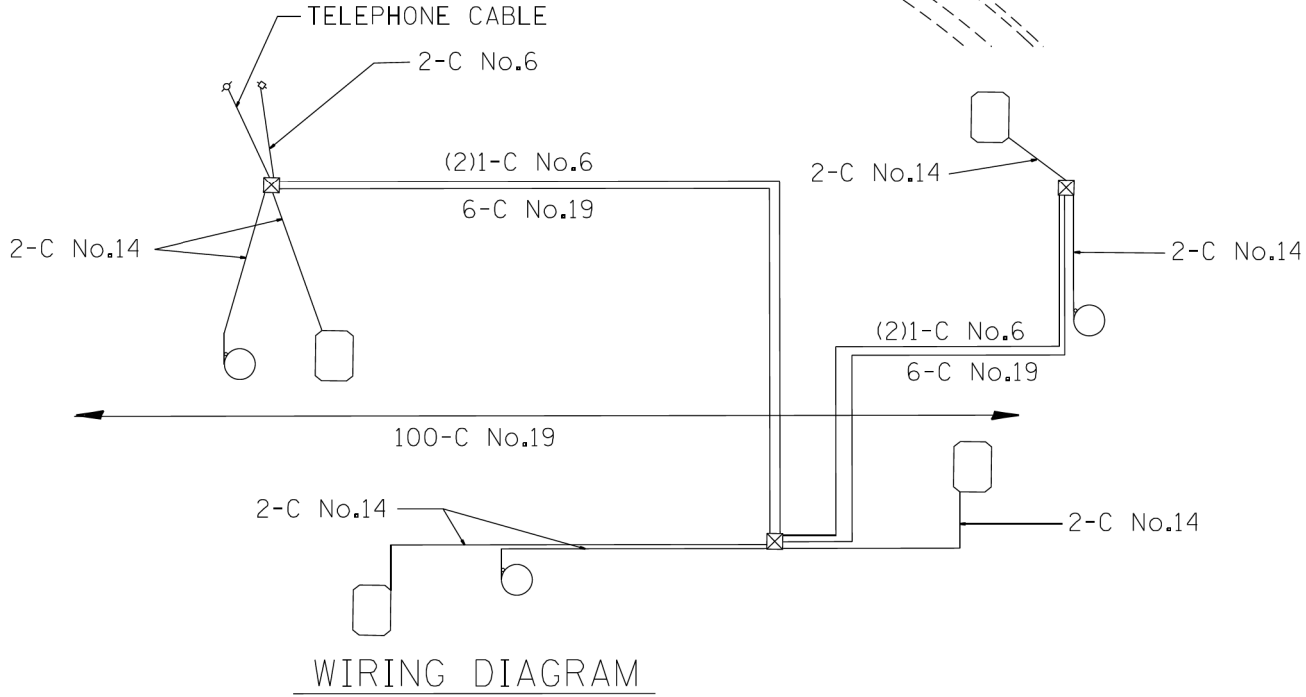
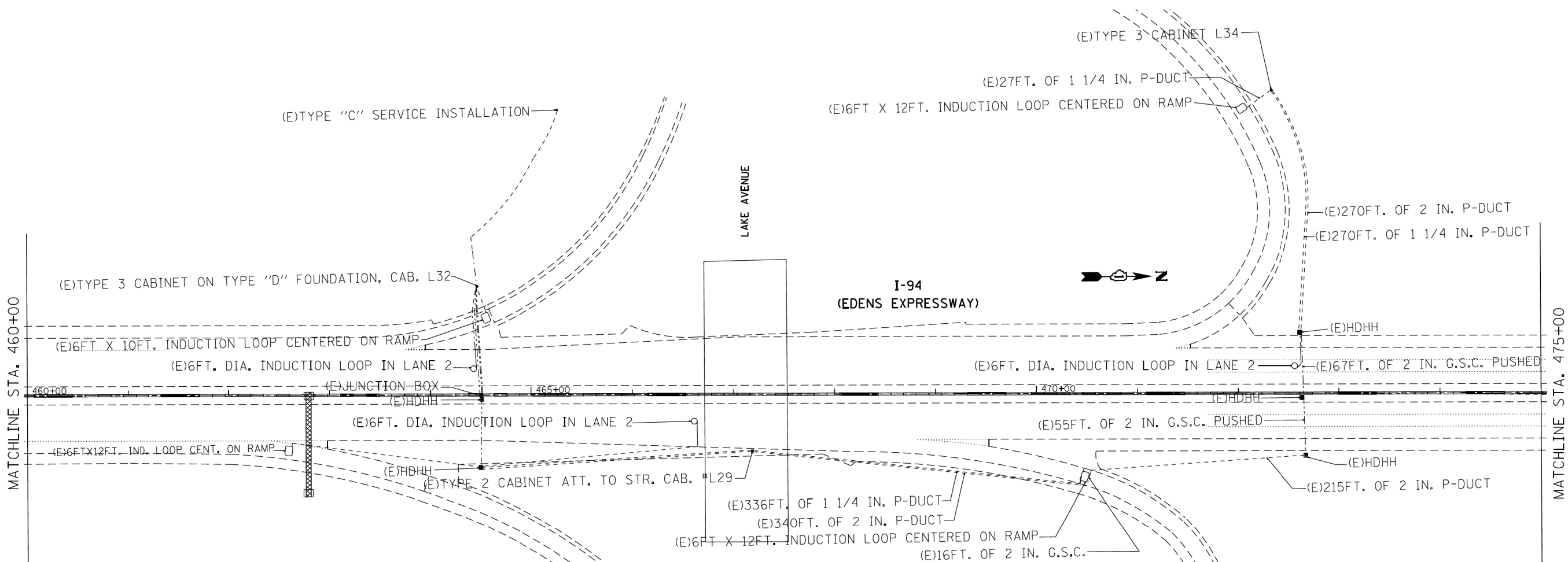
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	143
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	FILE NAME	
	DATE	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NOTE BOOK NO.	
	FILE NAME	
	DATE	
	BY	
	DATE	

HRG PROJECT NO.: 8650046.09  
 HRG PROJ. CONTACT: 8650046-09-sht-1-94-sht10.dgn  
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 PEN TABLE: p01tbl01.tbl



SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bharto	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

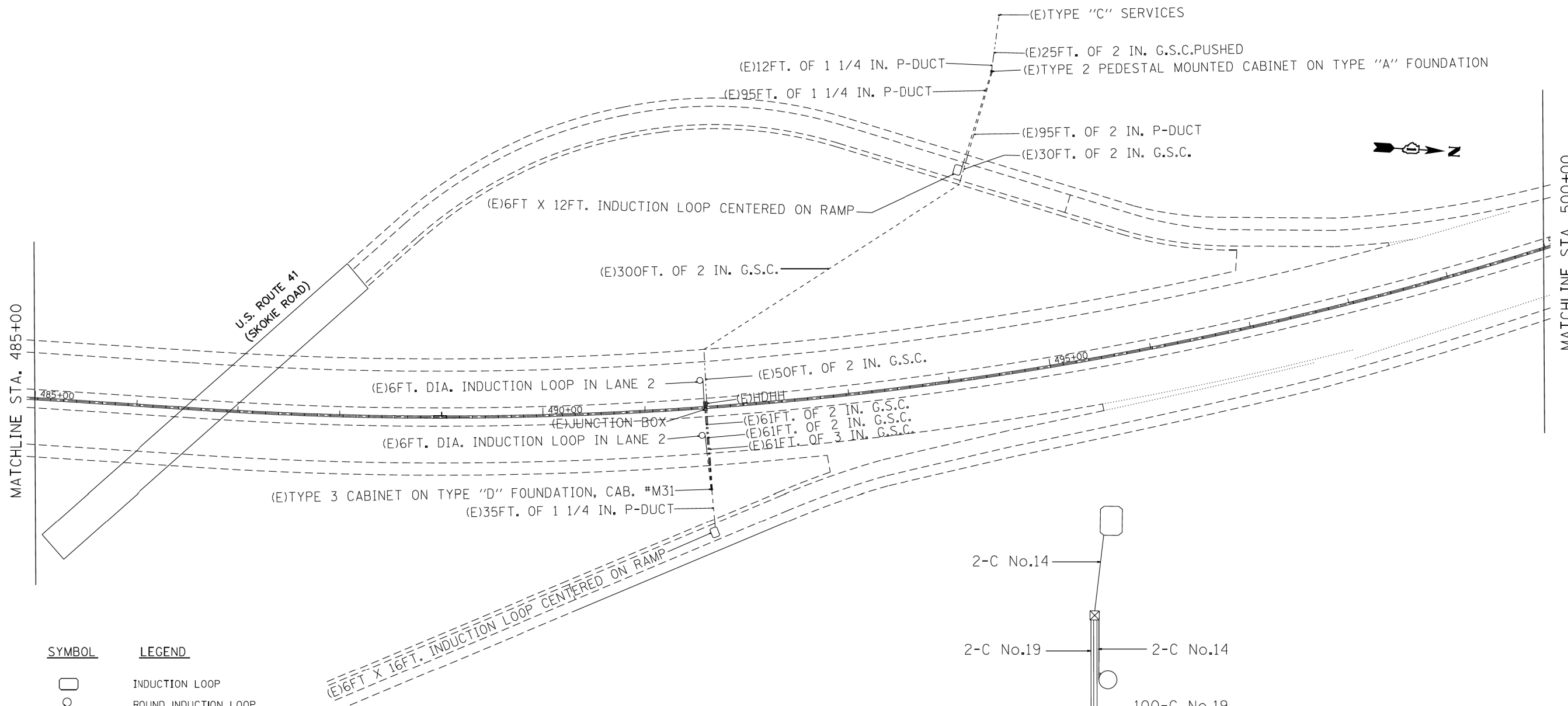
FOR INFORMATION ONLY			
SURVEILLANCE EQUIPMENT RECORD DRAWINGS			
SCALE: N.T.S.	SHEET NO. 10 OF 17 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	144
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

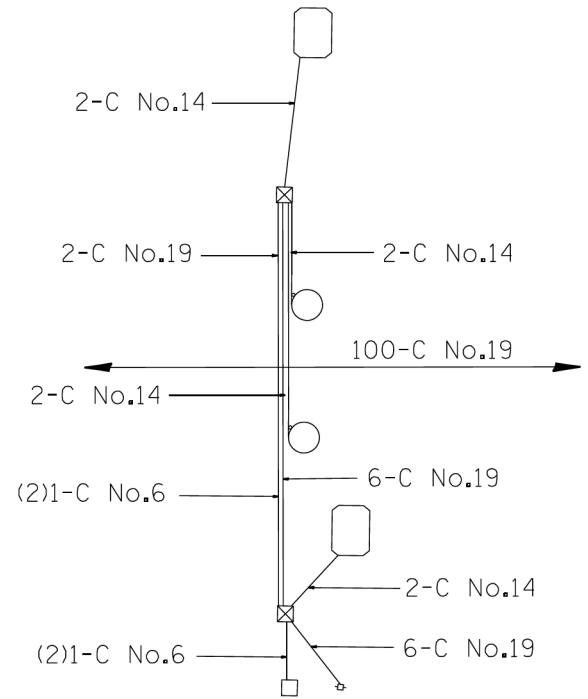
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HRG PROJECT NO.: 8650046.09  
 HRG PROJ. CONTACT: 8650046-09-sht-1-94-sht1.dgn  
 FILE NUMBER: 20160119  
 PEN TABLE: p01tbl.tbl



SYMBOL	LEGEND
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○	ROUND INDUCTION LOOP
⊗	TSC CABINET
○	TELEPHONE SERVICE
□	SERVICE INSTALLATION
□	JUNCTION BOX
■	HEAVY DUTY HAND HOLE
---	POLYETHYLENE DUCT
- - -	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



WIRING DIAGRAM



USER NAME = bharto	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

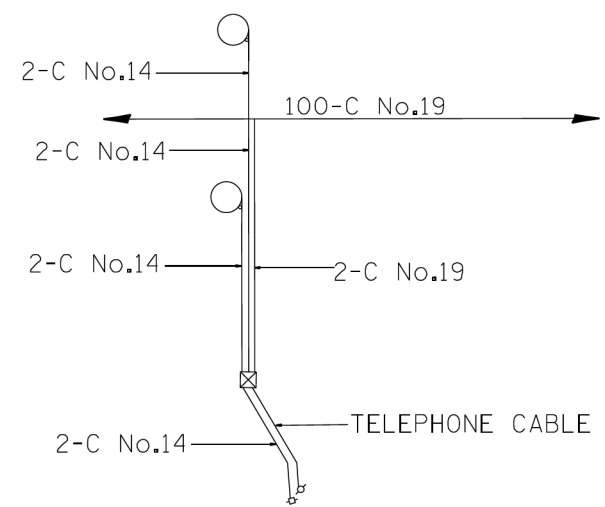
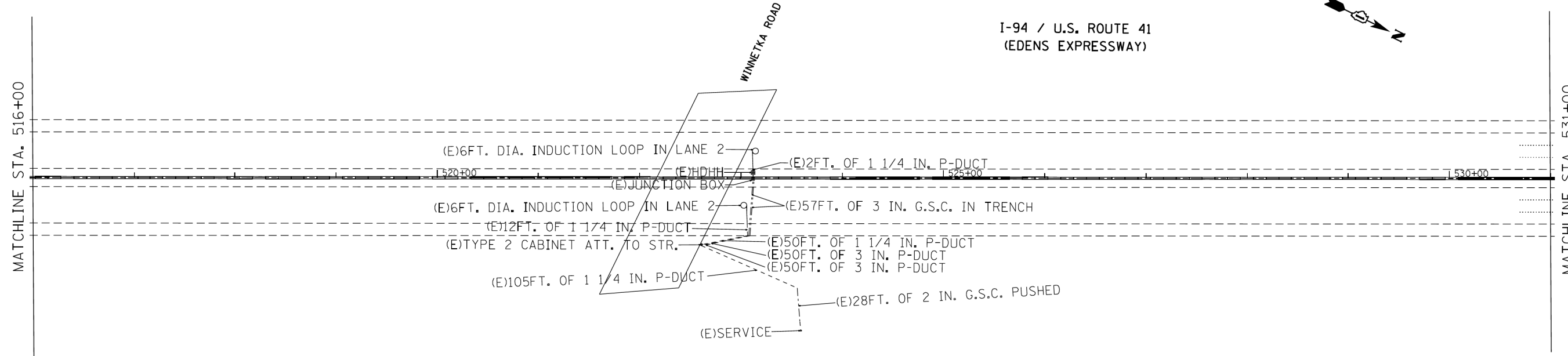
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SCALE: N.T.S.	SHEET NO. 11 OF 17 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	145
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
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	PEN TABLE		

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 FILE NAME: 8650046-09-sht-194-sht12.dgn  
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WIRING DIAGRAM

SYMBOL	LEGEND
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	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bharto	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
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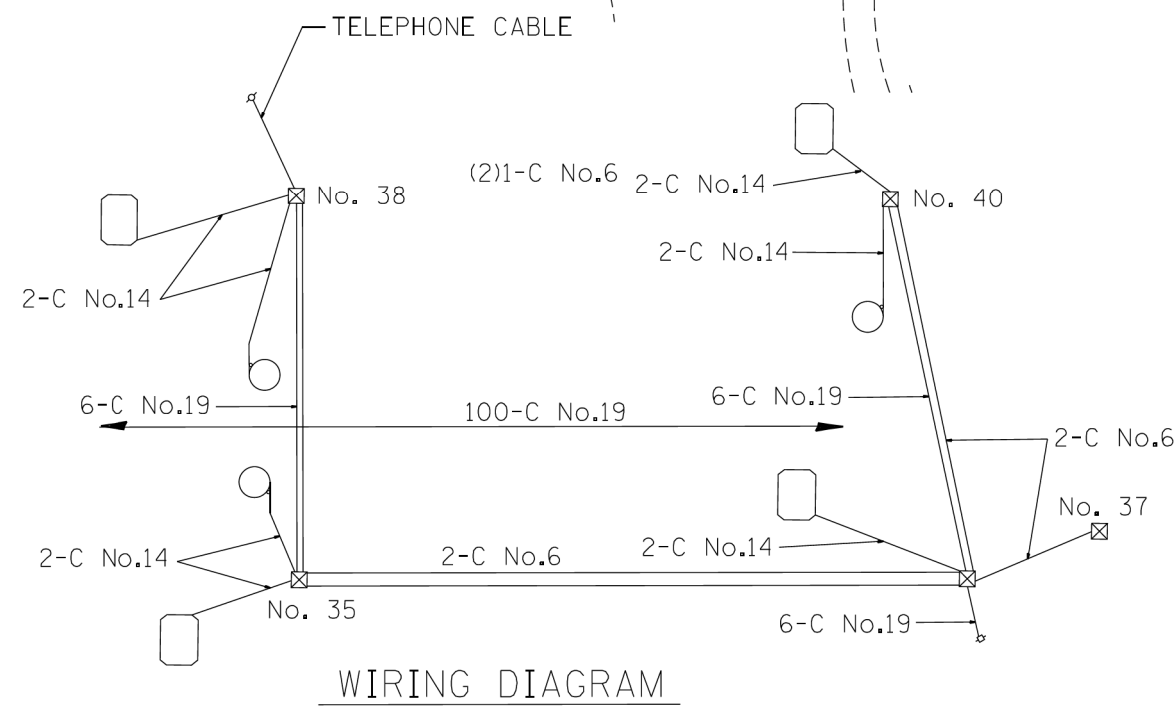
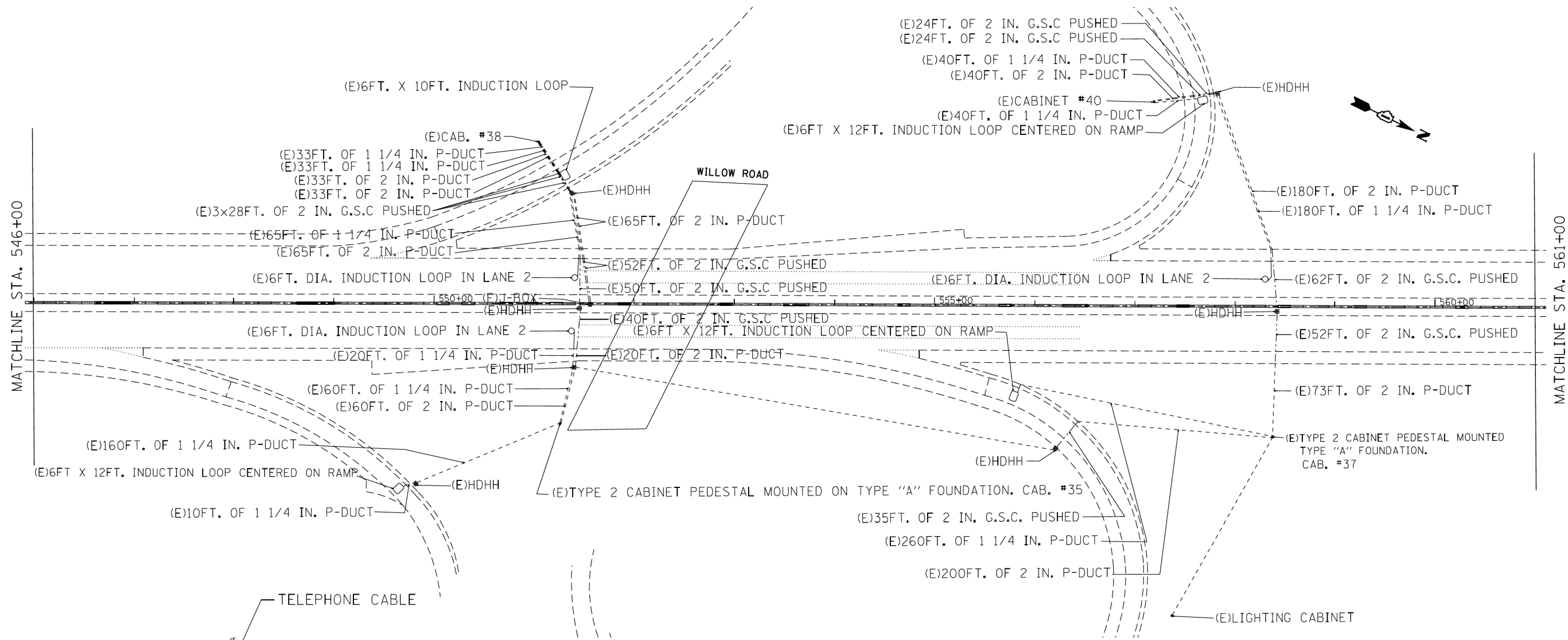
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY			
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	146
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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	PLOTTED	BY
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	ALIGNMENT CHECKED	
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	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	



SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE

HRG PROJECT NO.: 8650046.09  
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	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

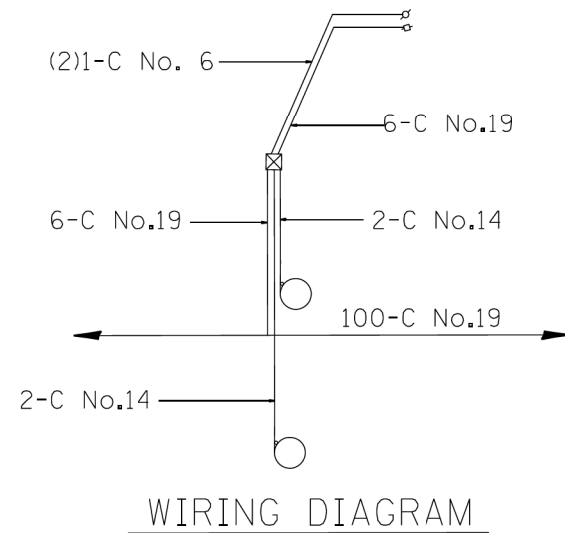
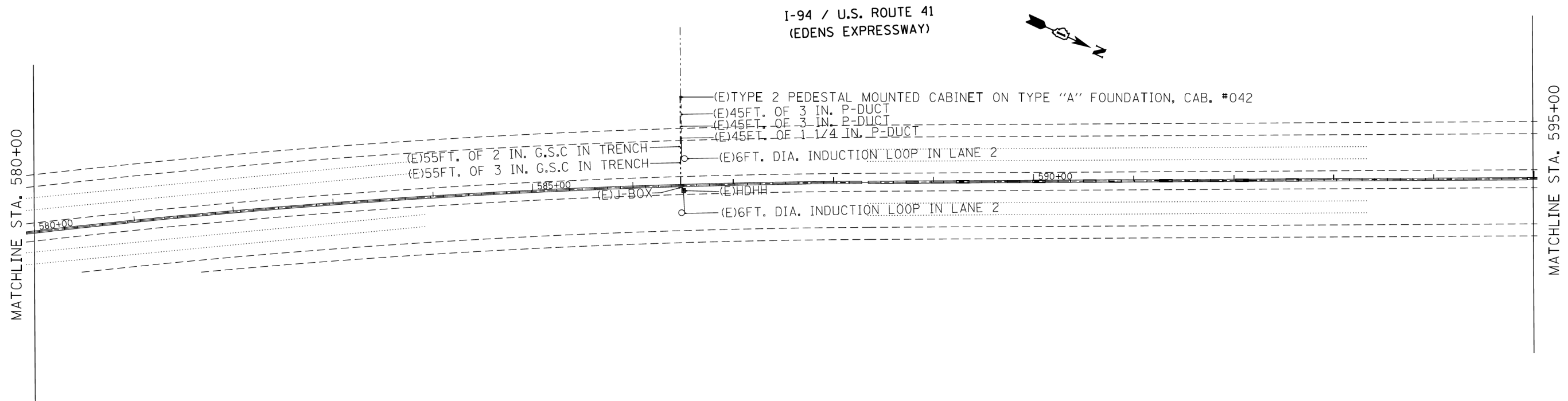
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STA.	TO STA.

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	147
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
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	CAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
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	STRUCTURE		
	NOTATIONS		
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SYMBOL	LEGEND
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	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bharto	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY			
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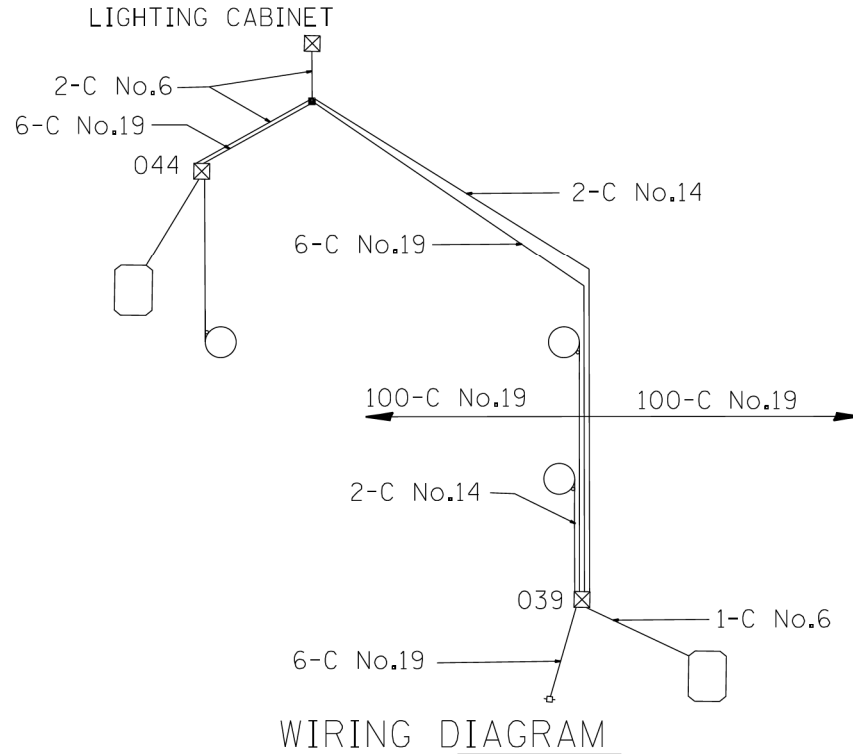
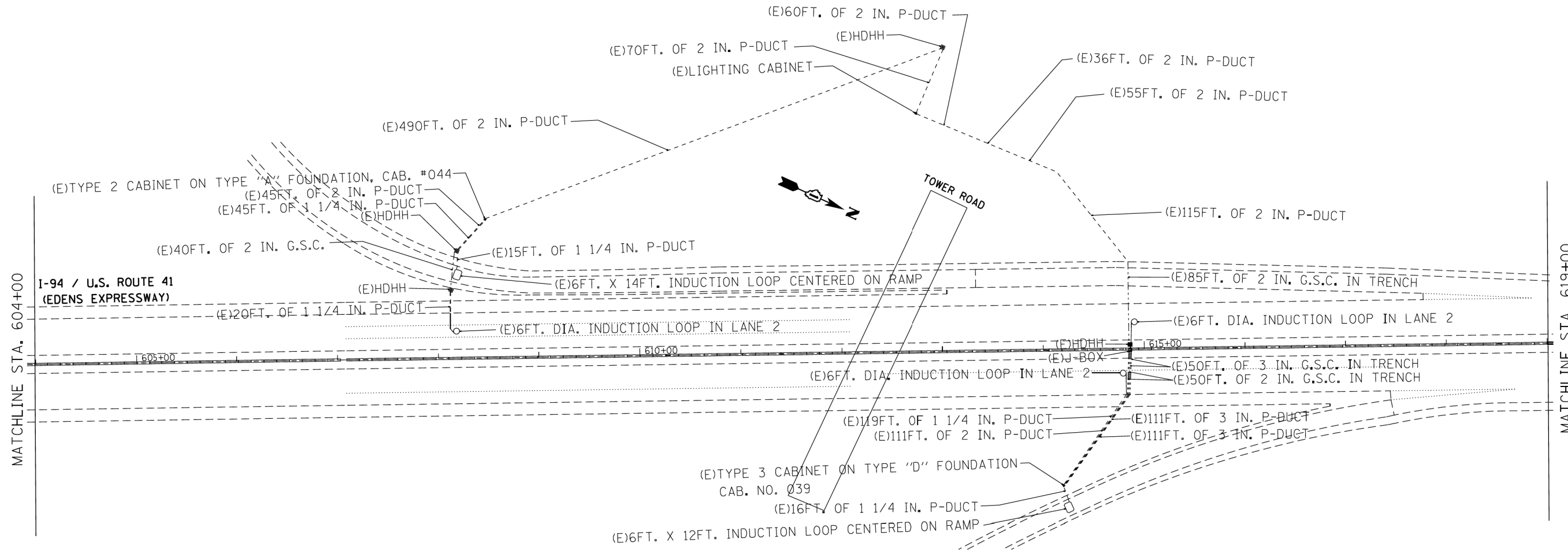
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94	2016-003I	COOK	168	148
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
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	ALIGNMENT CHECKED	
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	FILE TABLE	

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	FILE NUMBER	
	FILE TABLE	

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SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



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	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

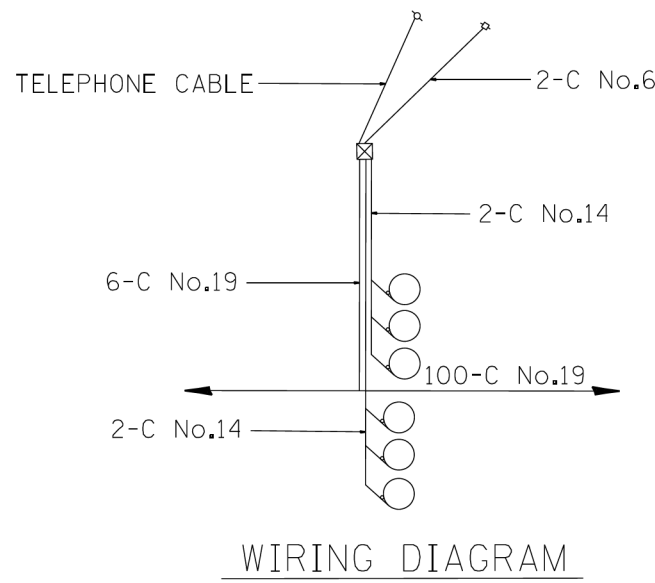
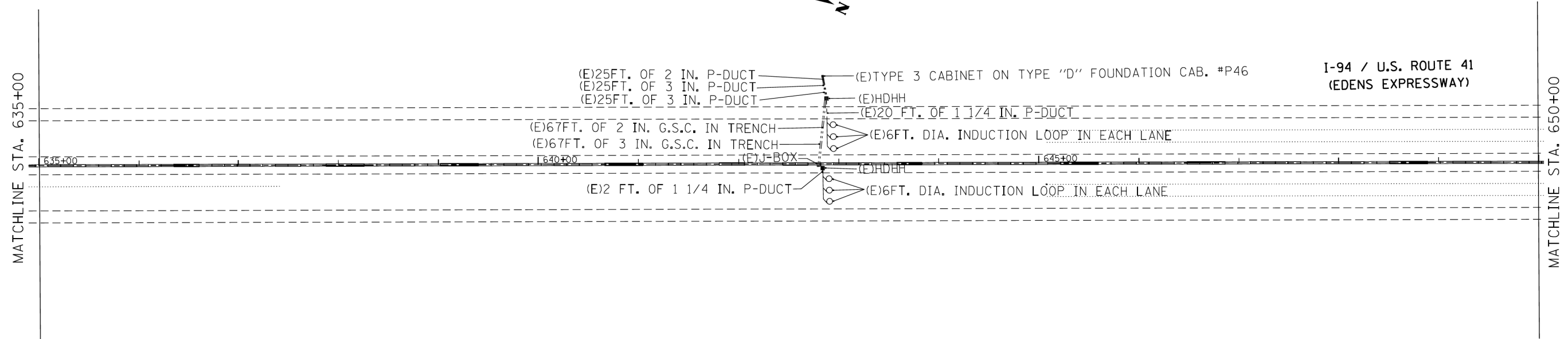
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STA. TO STA.	

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	149
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	ALIGNMENT CHECKED	
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	FILE NAME	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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	BY	

HRG PROJECT NO.: 8660046.09  
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 FILE NUMBER: 8660046-09-sht-1-94-sr16.dgn  
 PEN TABLE: p01tbl.tbl



WIRING DIAGRAM

I-94 / U.S. ROUTE 41  
 (EDENS EXPRESSWAY)

SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



USER NAME = bhartna	DESIGNED - BH	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TH	REVISED -
PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

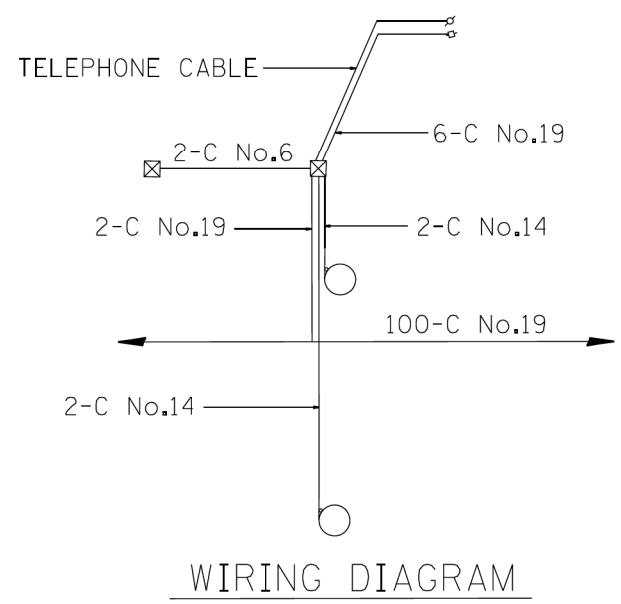
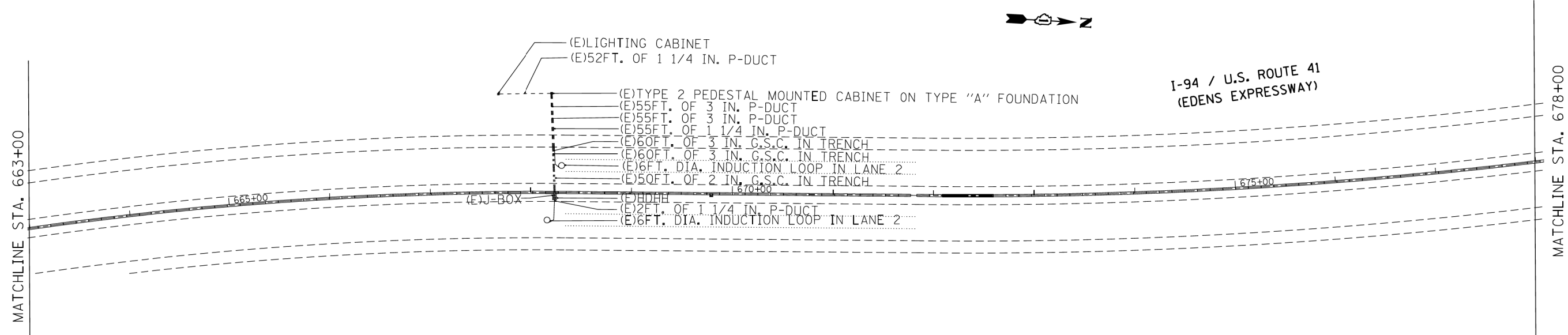
FOR INFORMATION ONLY			
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F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	150
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		
	NO.		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		
	NO.		
	NO.		

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SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



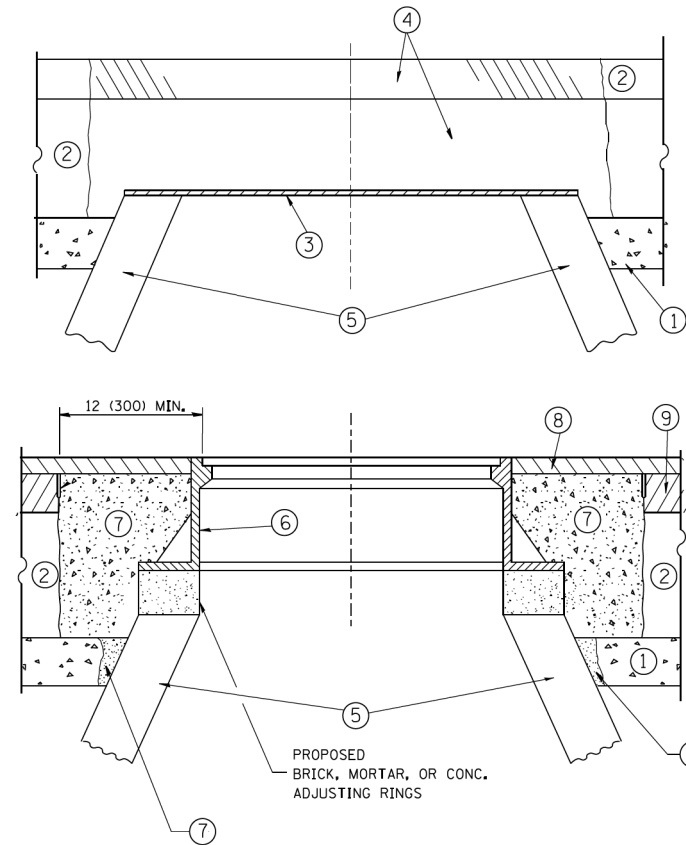
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PLOT DATE = 10/28/2016	DATE - 10/24/16	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY			
SURVEILLANCE EQUIPMENT RECORD DRAWINGS			
SCALE: N.T.S.	SHEET NO. 17 OF 17 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION NO.	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	151
CONTRACT NO. 62C10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

COMPANY NAME: #COMPANY NAME#  
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 DATE PLOTTED: 10/26/2016 09:26:55 AM  
 FILE NAME: 86150046-09-shr-det-bd08.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plotlabel.tbl



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

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

**STAGE 2 (AFTER PAVEMENT MILLING)**

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

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

**LEGEND**

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

**LOCATION OF STRUCTURES:**

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

**BASIS OF PAYMENT:**

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

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

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

**NOTES:**

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

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

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

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

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

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

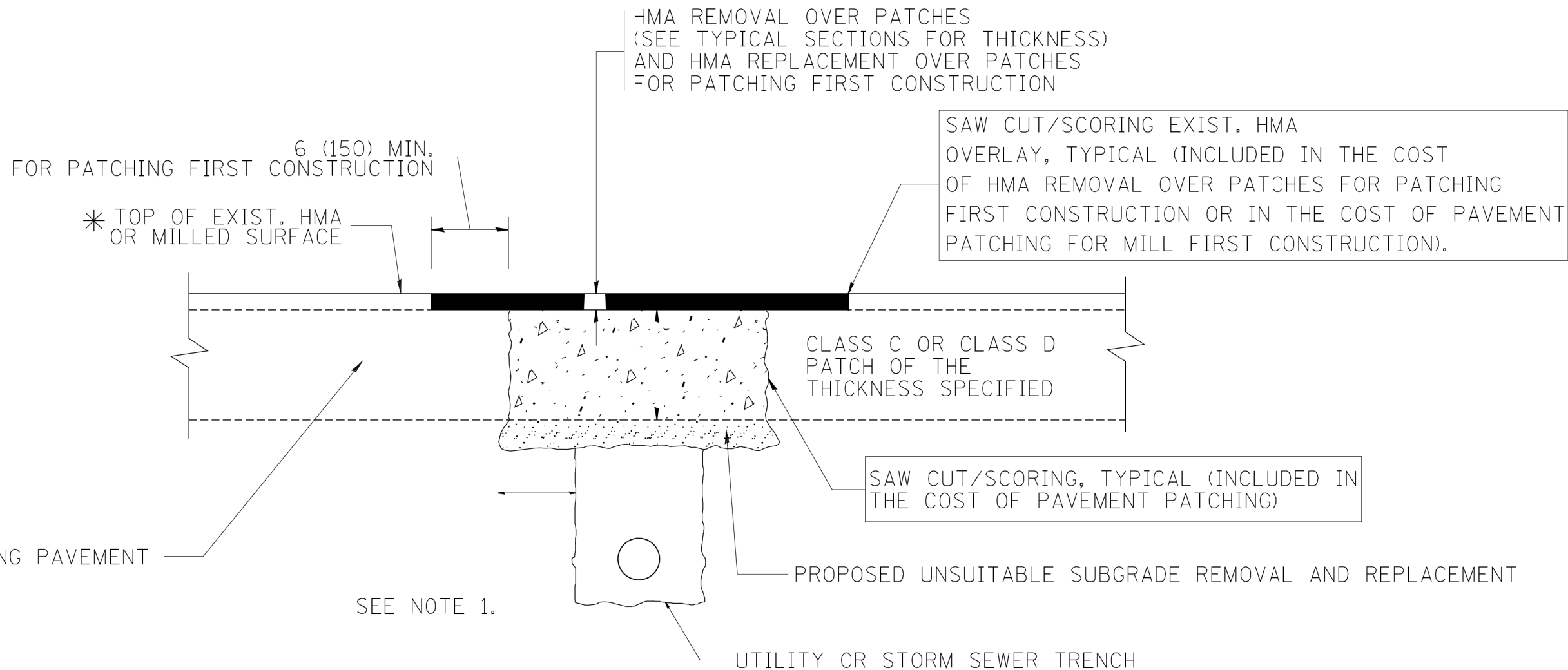
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		CHECKED -	REVISED - R. BORO 03-09-11
		DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR  
 FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	152
BD600-03 (BD-8)		CONTRACT NO. 62C10		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

COMPANY NAME: 86150046-09-shr-det-bd22.dgn  
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 DATE PLOTTED: 10/27/2008 10:28:20 AM  
 FILE NAME: 86150046-09-shr-det-bd22.dgn  
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		CHECKED -	REVISED - R. BORO 09-04-07
		DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
 HMA SURFACED PAVEMENT**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	153
BD400-04 (BD-22)			CONTRACT NO. 62C10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \* \*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SEEDING, CLASS 2A WITH TOP SOIL, 4" (100)

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

T/2 \*

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\* \* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SEEDING, CLASS 2A AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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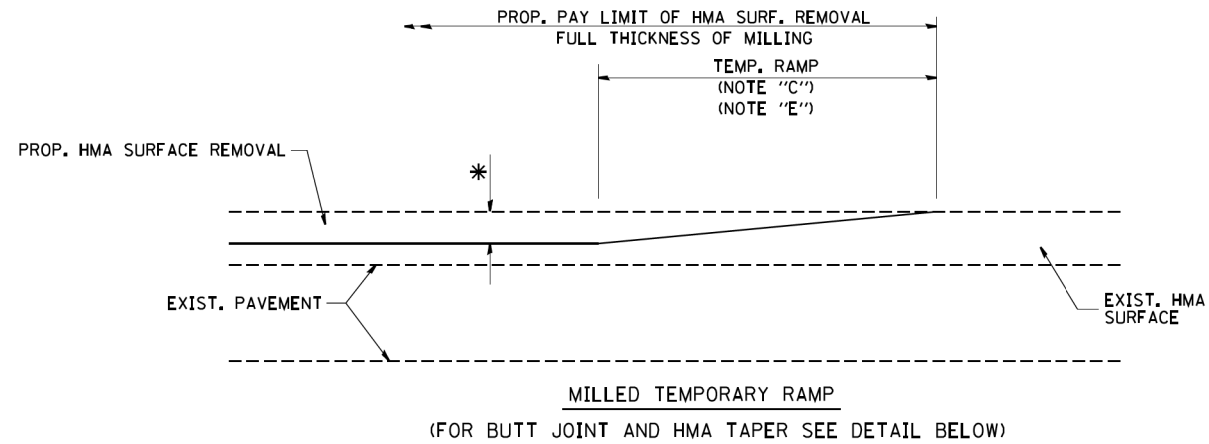
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT

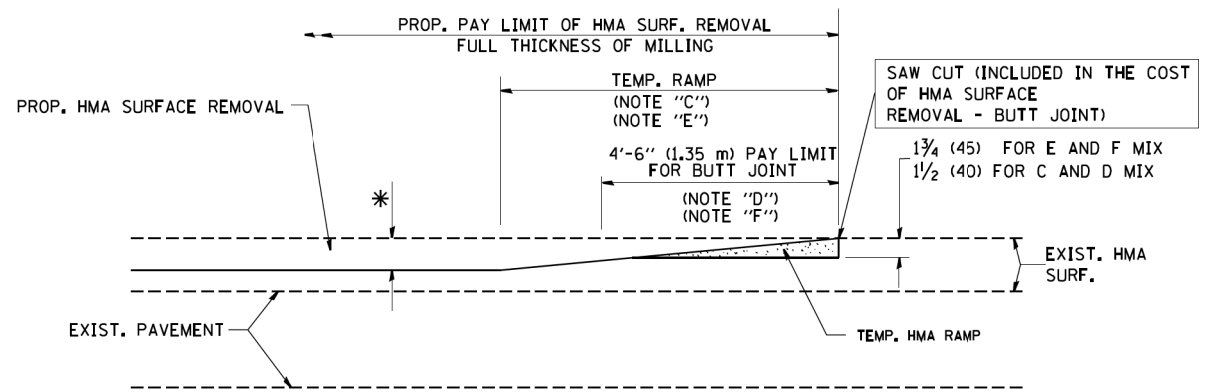
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BD600-06 (BD-24)			CONTRACT NO. 62C10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



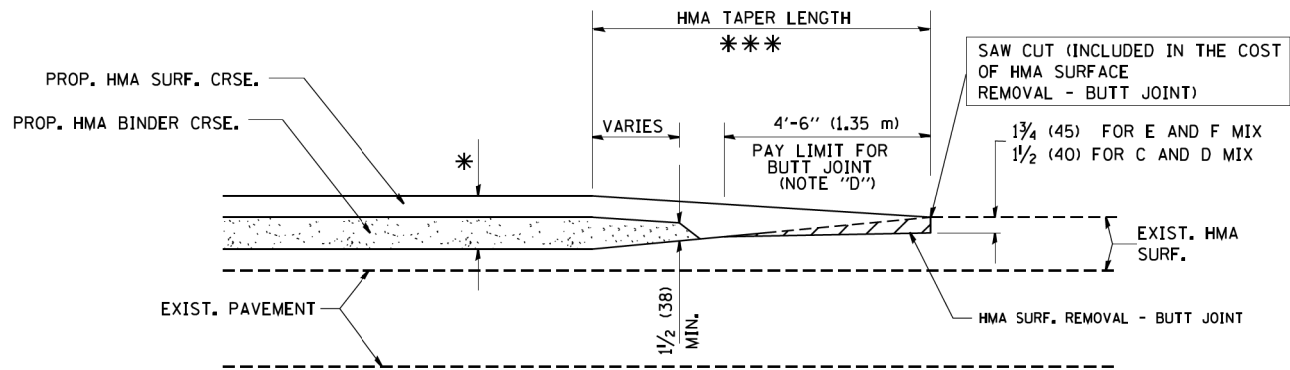
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

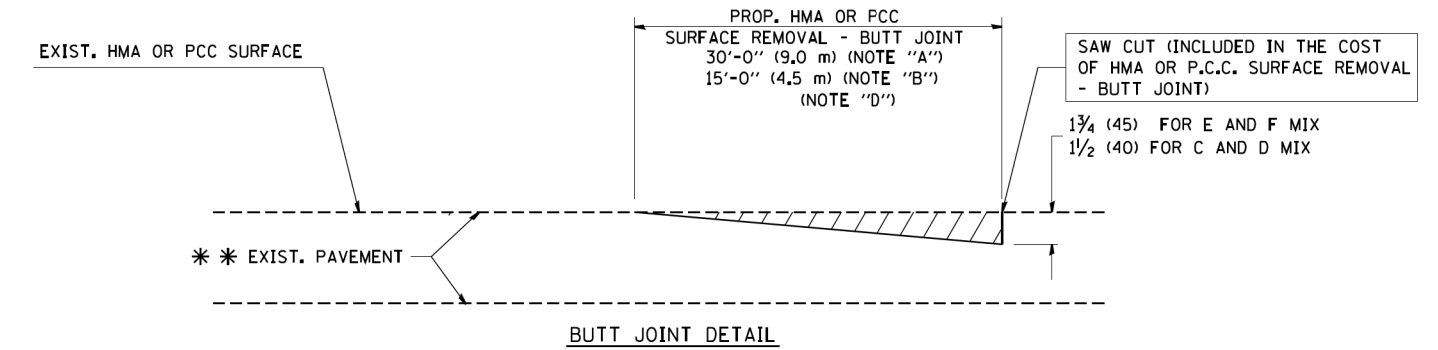


HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

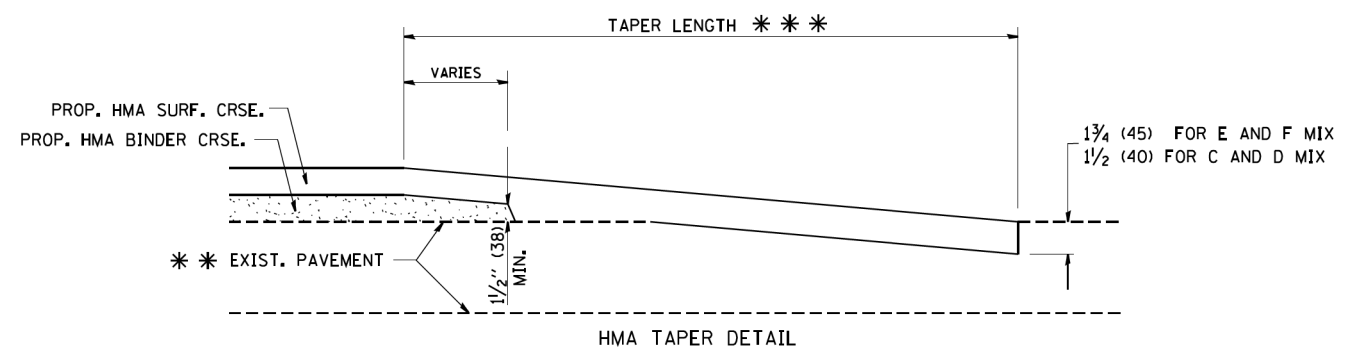
**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



BUTT JOINT AND HMA TAPER  
**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

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

**NOTES**

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

**BASIS OF PAYMENT:**

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

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

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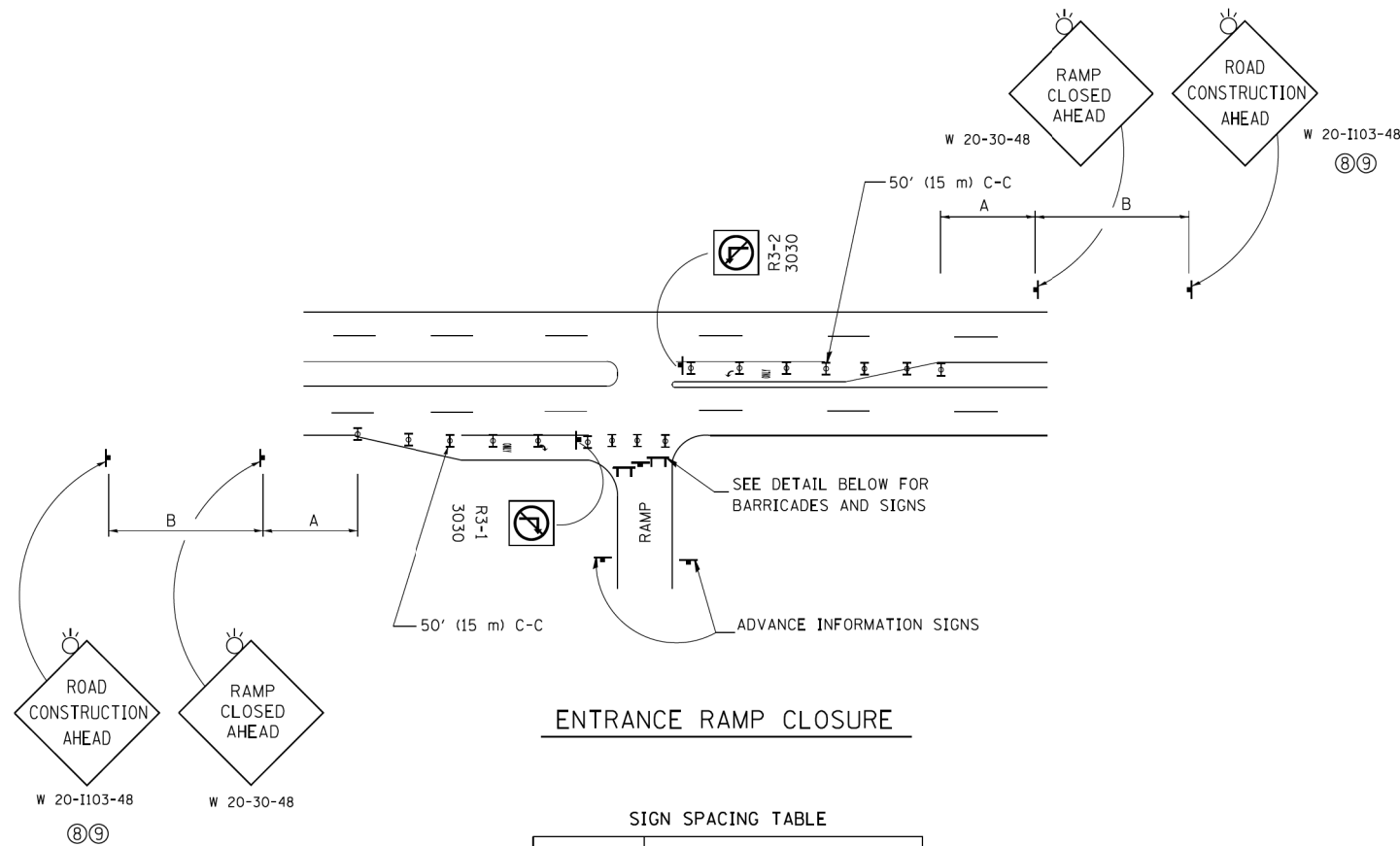
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

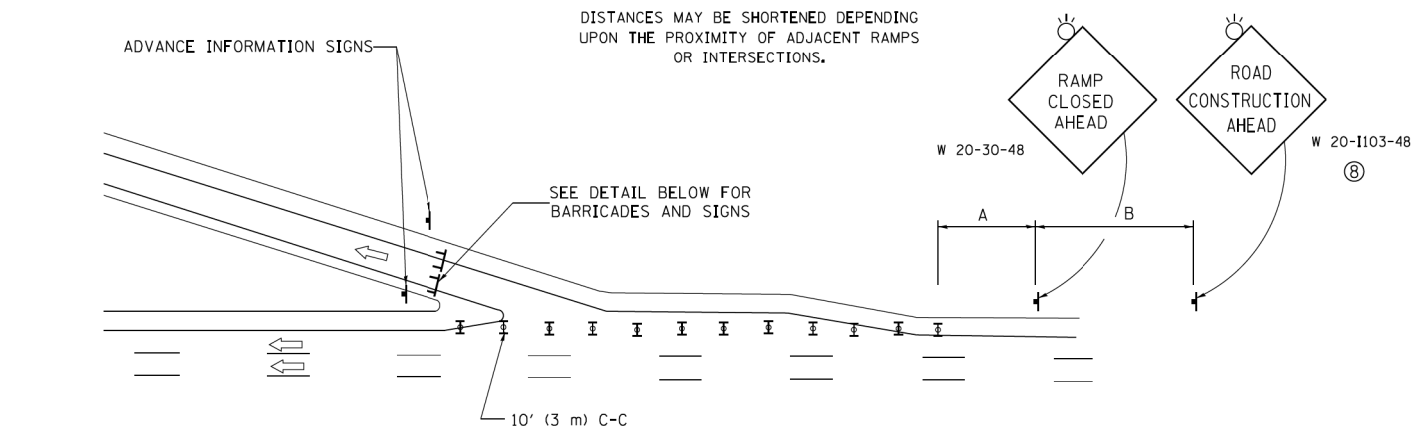


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

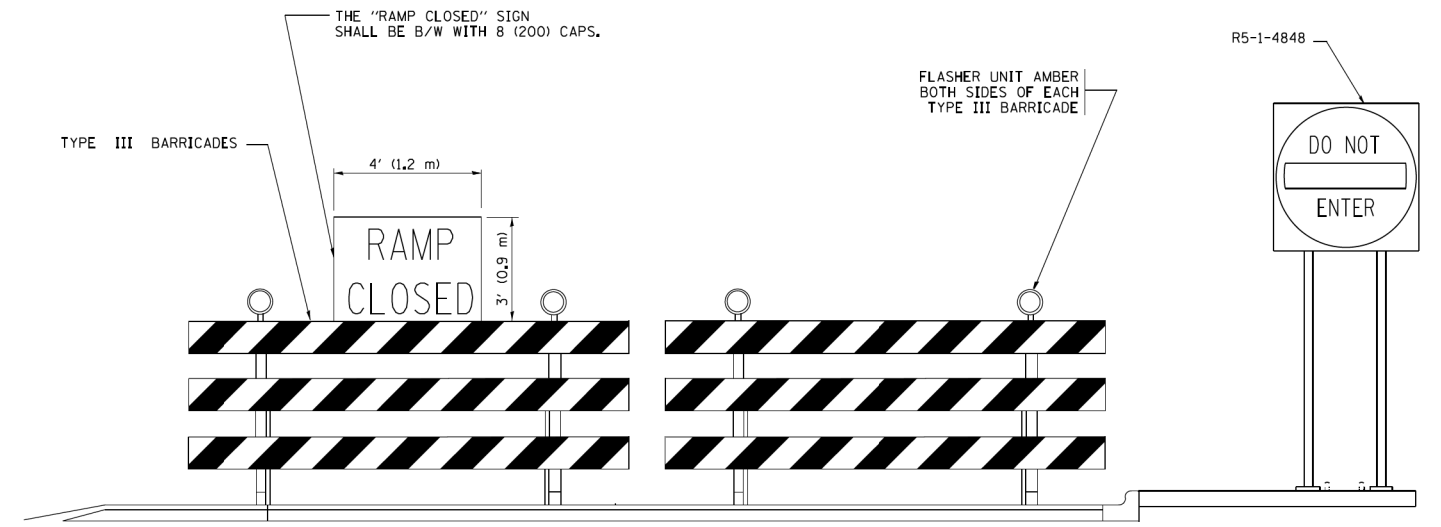
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

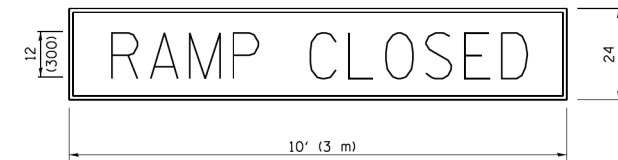
**SYMBOLS**

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⌈ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

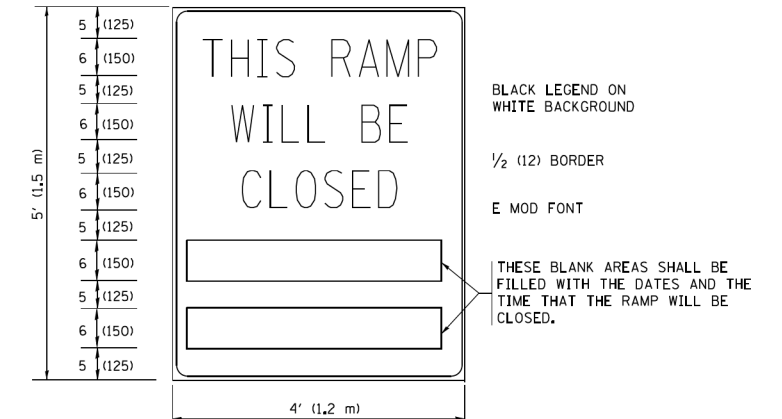
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

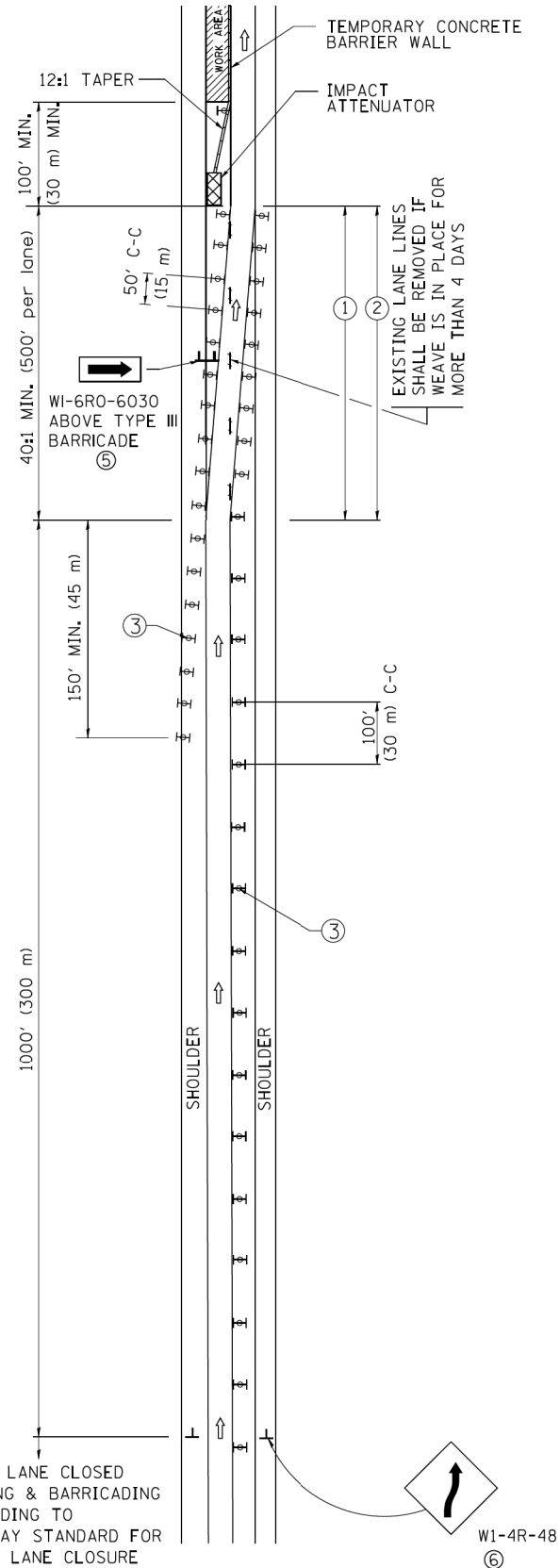
ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS

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

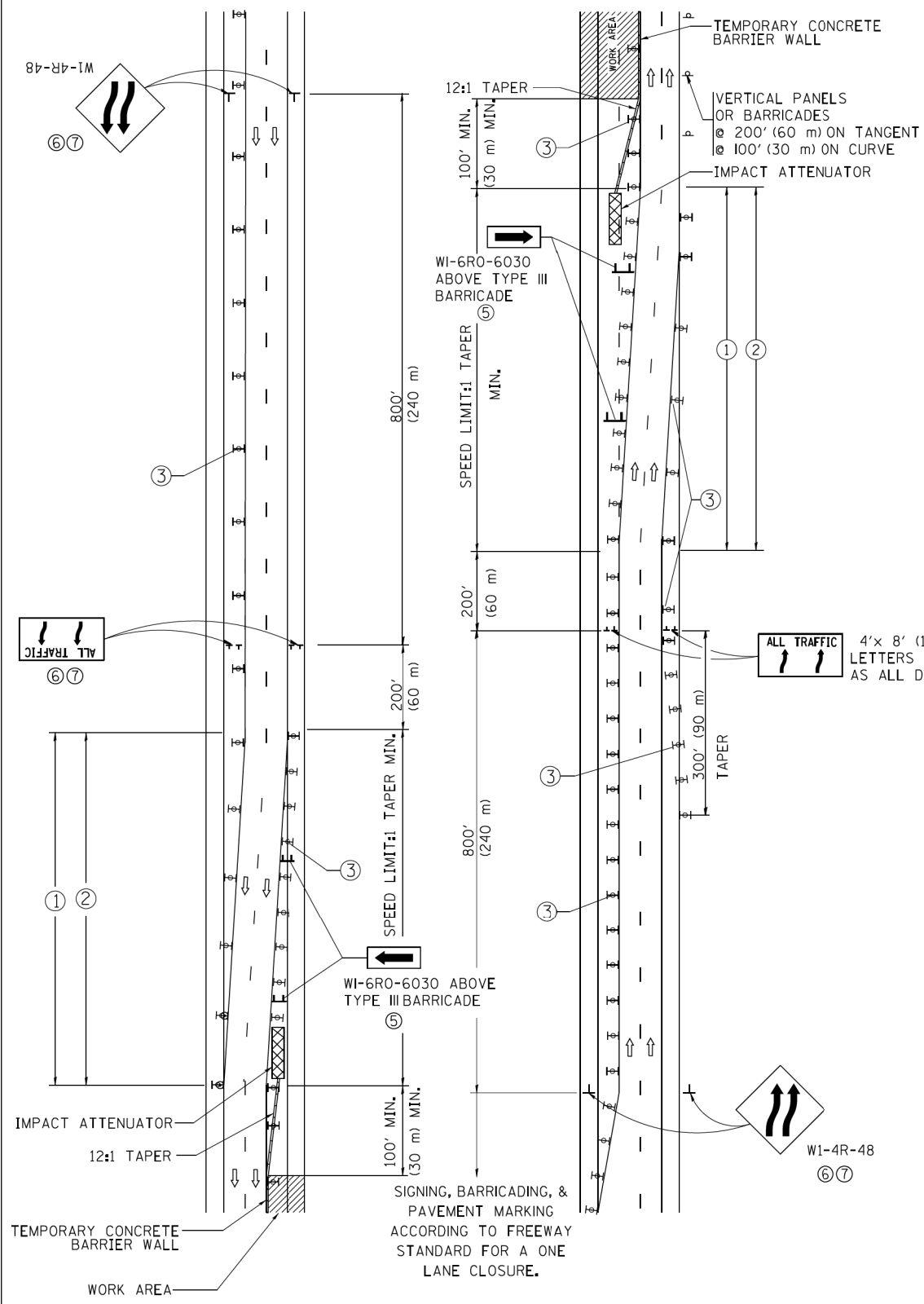
F.A.I. RTE. 94	SECTION 2016-0031	COUNTY COOK	TOTAL SHEETS 168	SHEET NO. 156
TC-08			CONTRACT NO. 62C10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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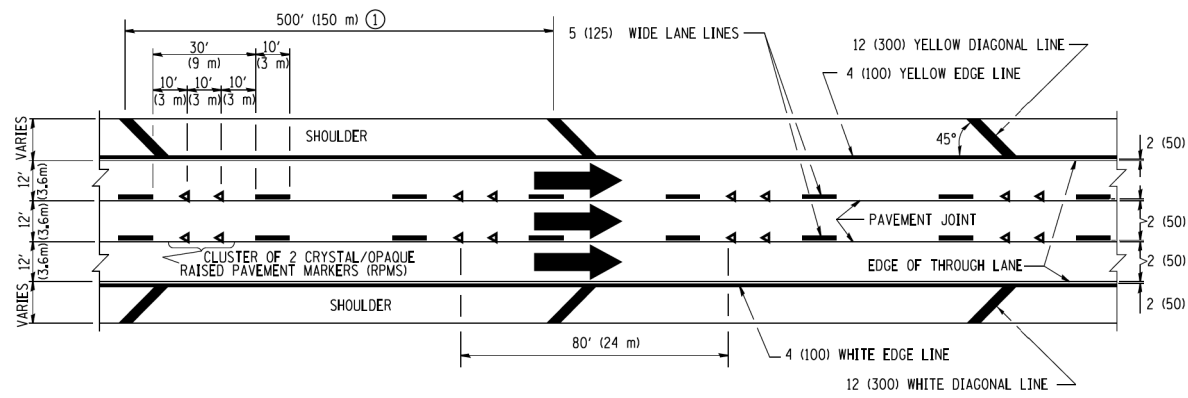
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR  
FREEWAY SINGLE & MULTI-LANE WEAVE

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

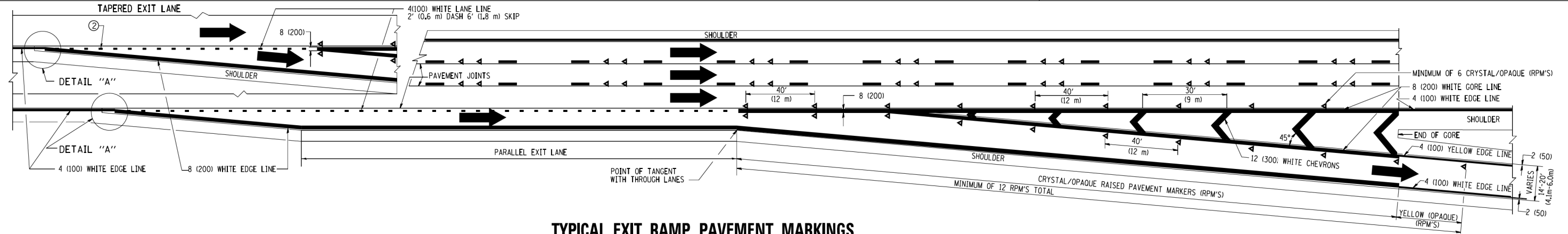
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TC-09			CONTRACT NO. 62C10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



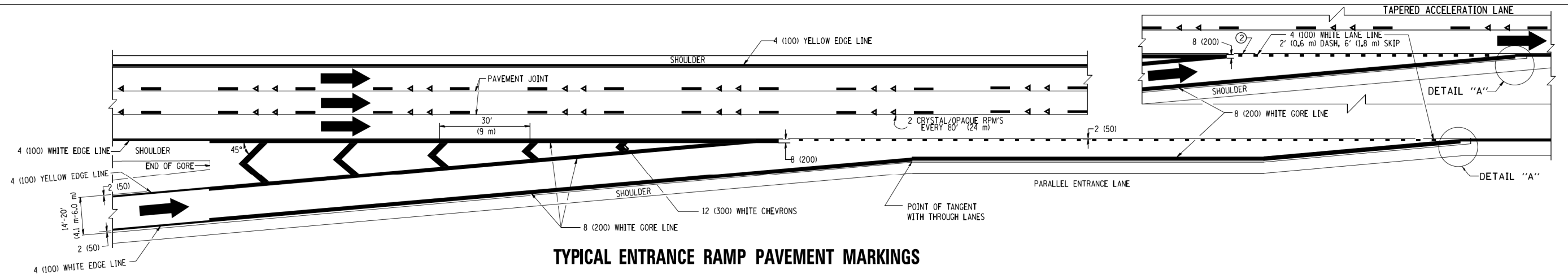
**TYPICAL EDGE LINES & LANE LINES**

**PAVEMENT MARKING MATERIALS**

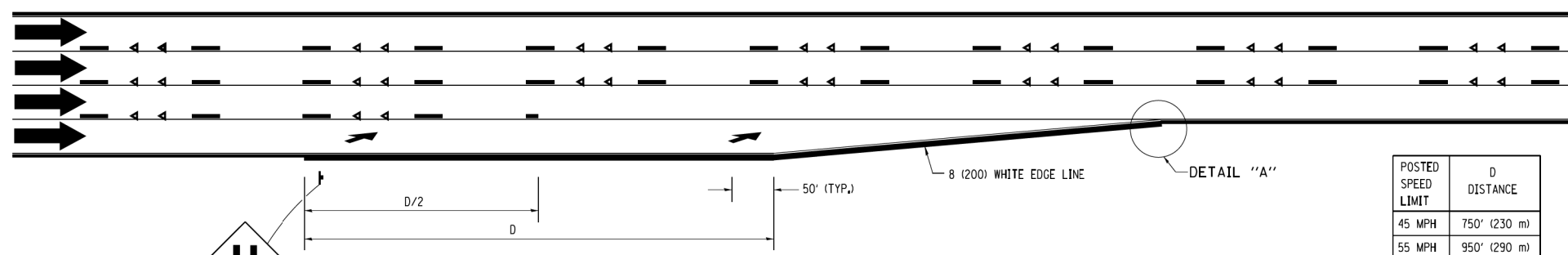
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



**TYPICAL EXIT RAMP PAVEMENT MARKINGS**

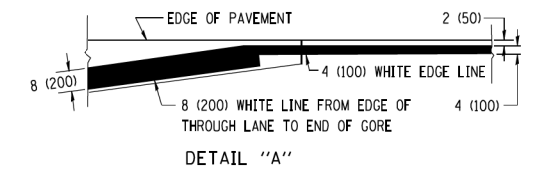


**TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS**



**LANE REDUCTION PAVEMENT MARKINGS**

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



**NOTES:**

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

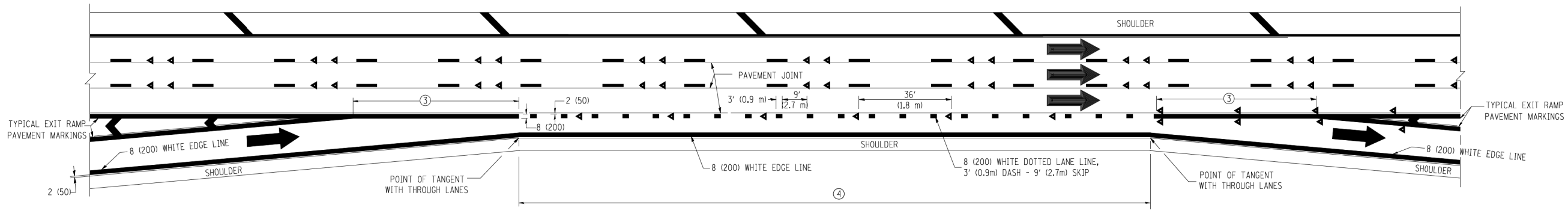
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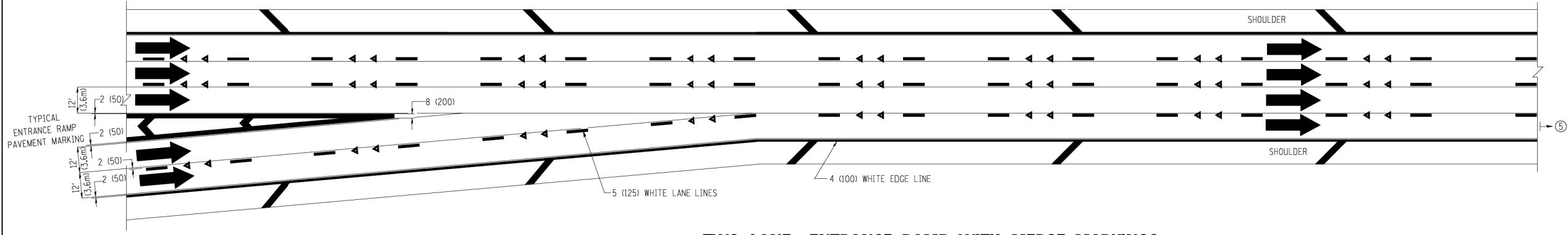
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS</b>	
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STA.	TO STA.

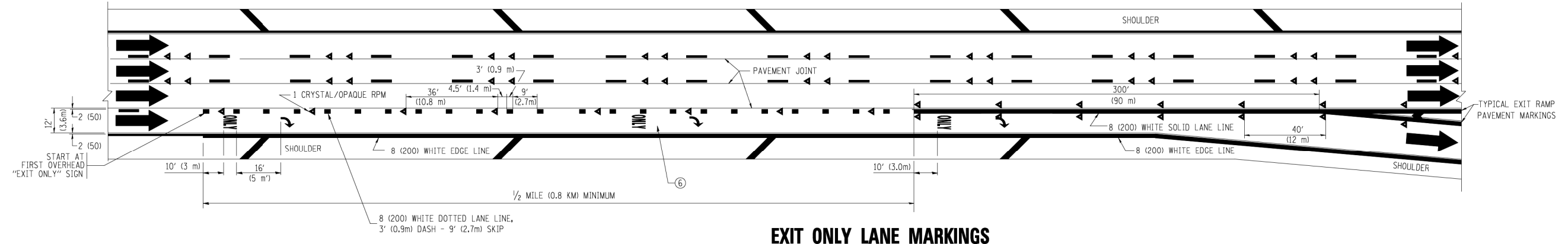
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TC-12			CONTRACT NO. 62C10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



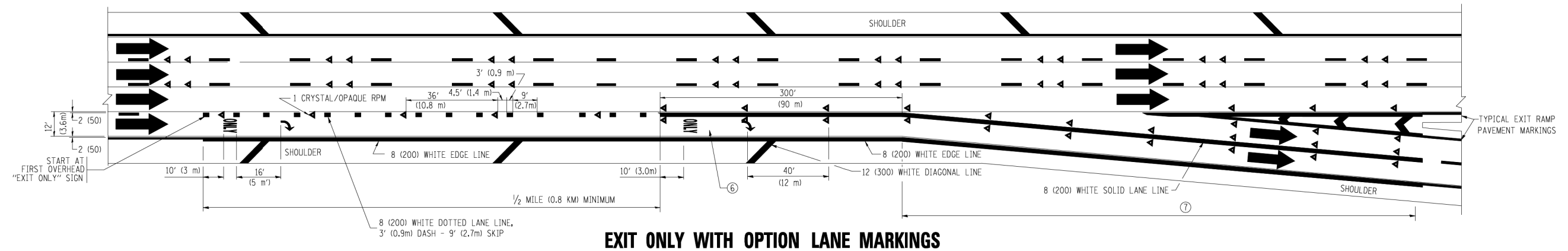
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
  - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

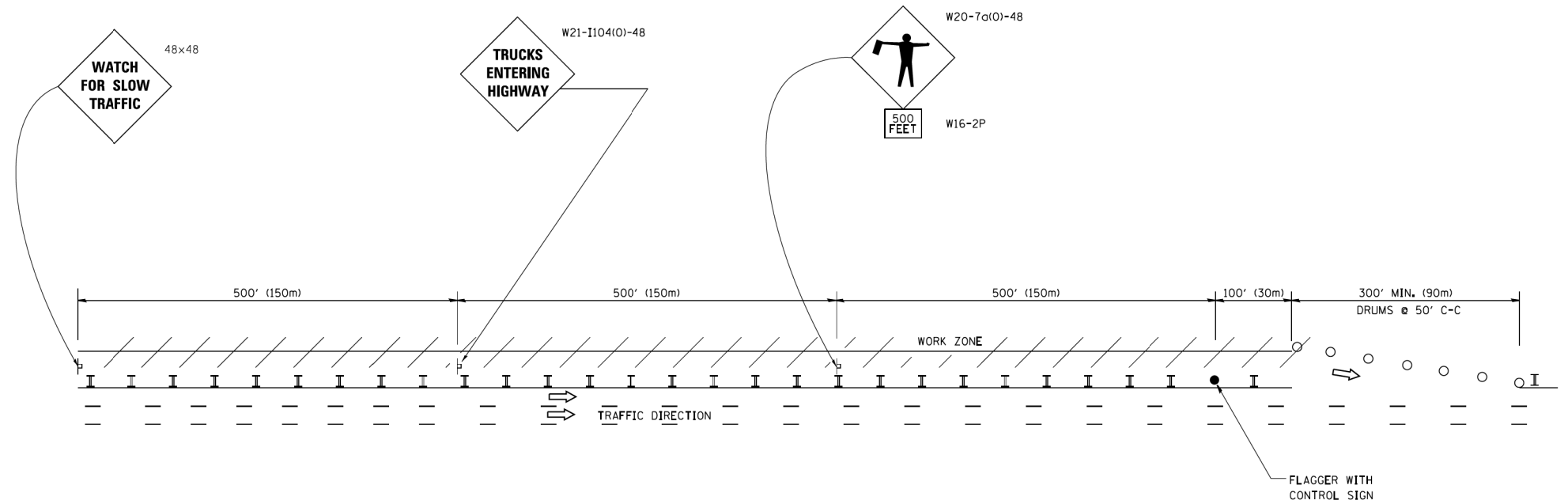
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F.A.I. RTE. 94	SECTION 2016-0031	COUNTY COOK	TOTAL SHEETS 168	SHEET NO. 159
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

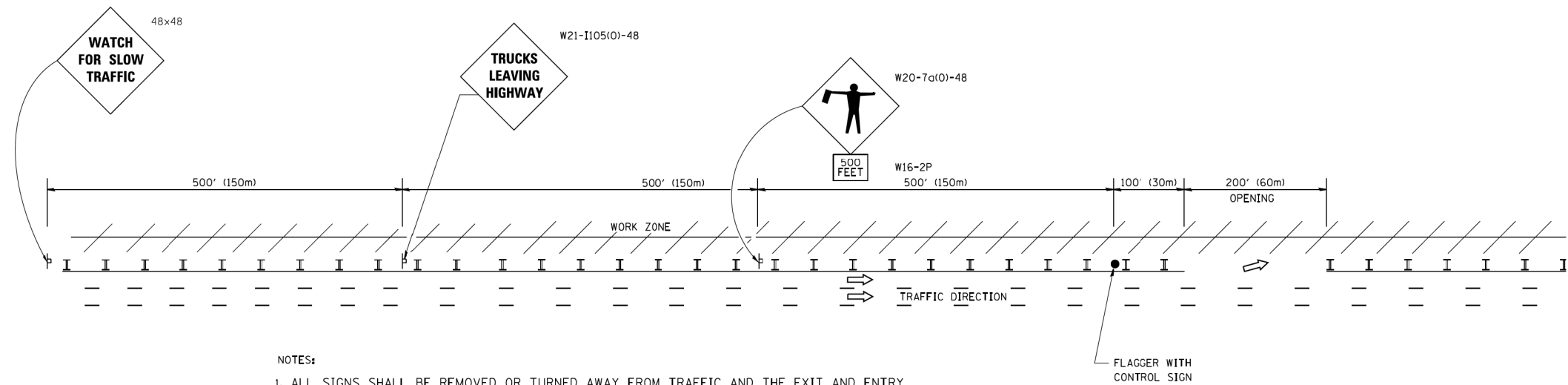


SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

COMPANY NAME: #COMPANY NAMES  
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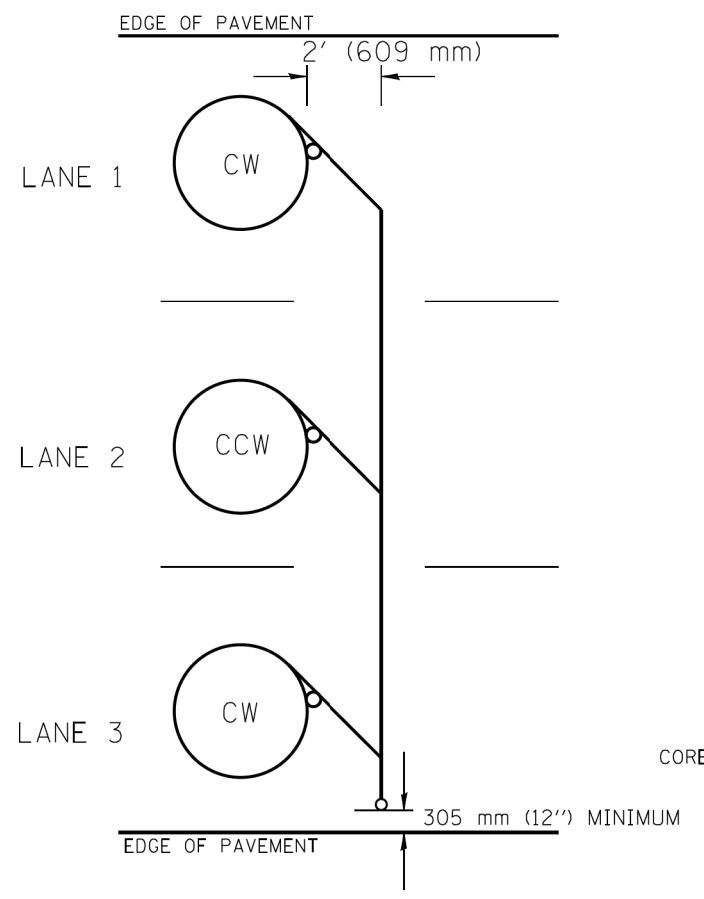
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	PLOT DATE = 7/8/2013	DATE -	REVISED - M.D. 06-13

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

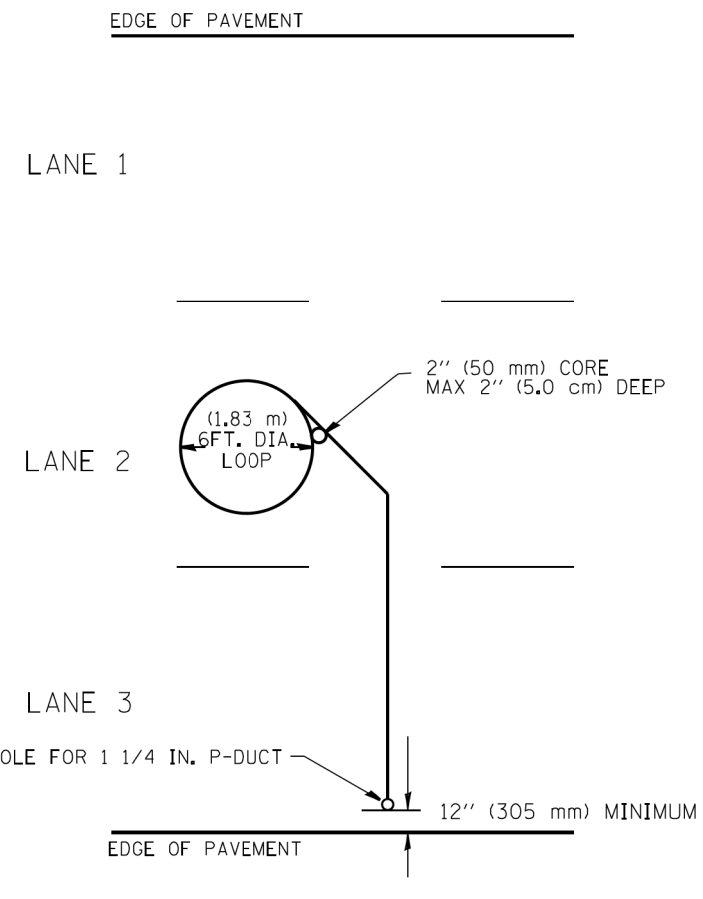
FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS  
 AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS

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

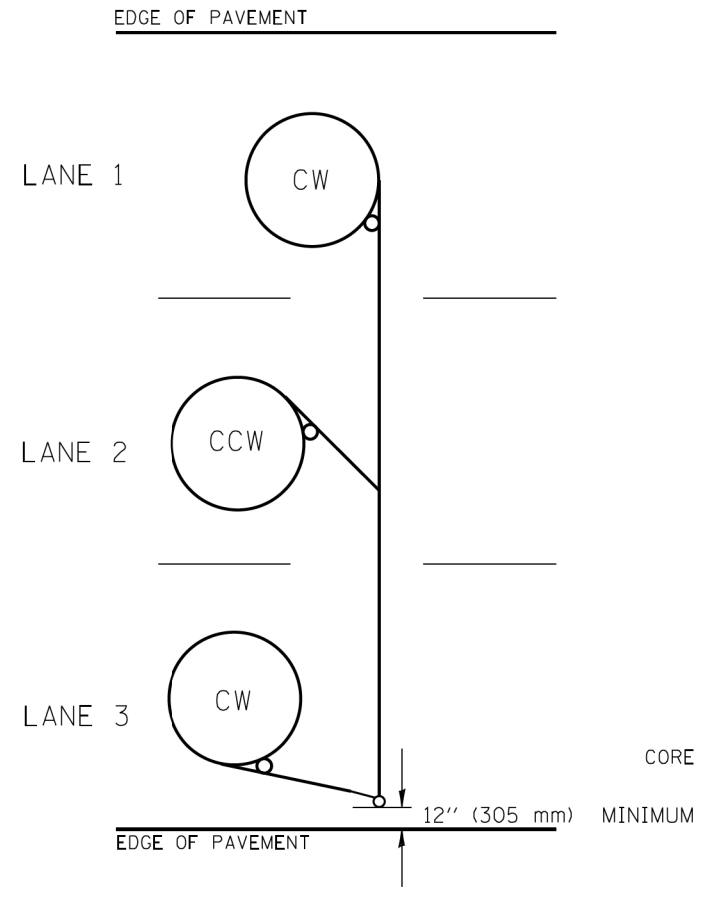
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-0031	COOK	168	161
TC-18			CONTRACT NO. 62C10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



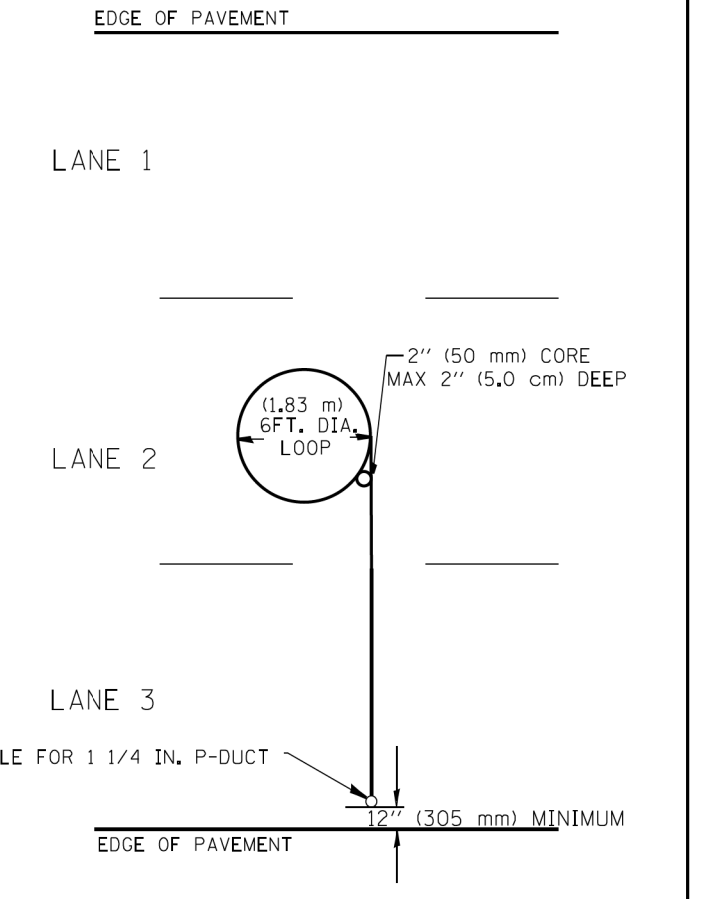
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL  
LAYOUT FOR MULTIPLE LANE ROADWAY



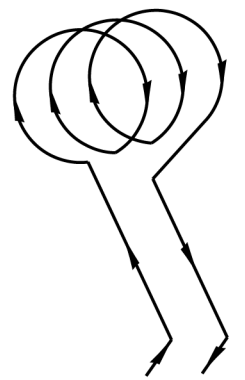
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP  
LAYOUT FOR LANE 2



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL  
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP  
LAYOUT FOR LANE 2



WIRING DETAILS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

COMPANY NAME: TSC  
PROJECT CONTACT: MEZAG  
DATE PLOTTED: 10/28/2016 8:25:59 AM  
FILE NAME: 86150046-09-shr-det-TSC-418#1.dgn  
PLOT DRIVER: ILpdf.plt  
PEN TABLE: plotlabel.tbl

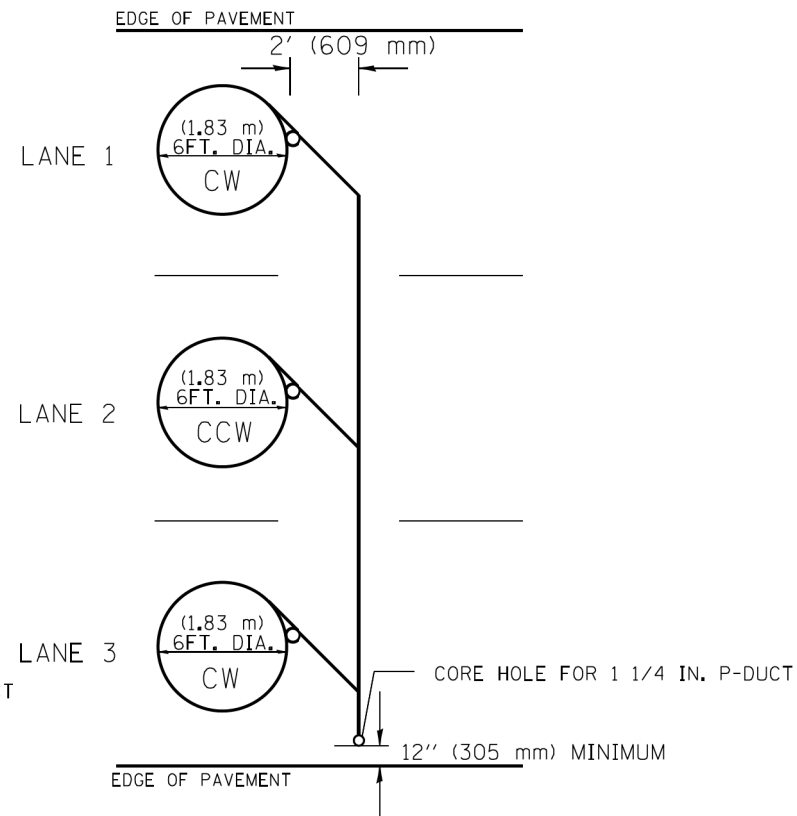
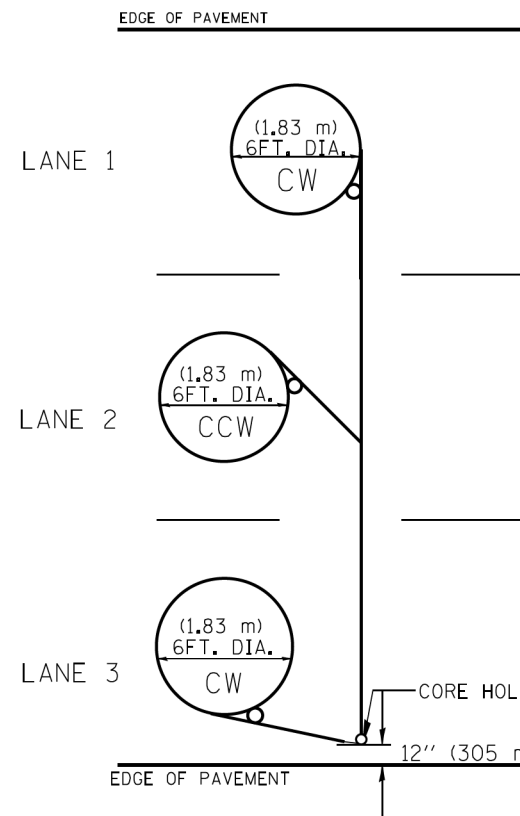
FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94
		DRAWN - G.M.	REVISED - 9/96
		CHECKED - R.L.	REVISED - R.L. 03/2011
		DATE - 6-22-94	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

EXISTING ROUND LOOP  
INSTALLATION

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

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	162
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C10	

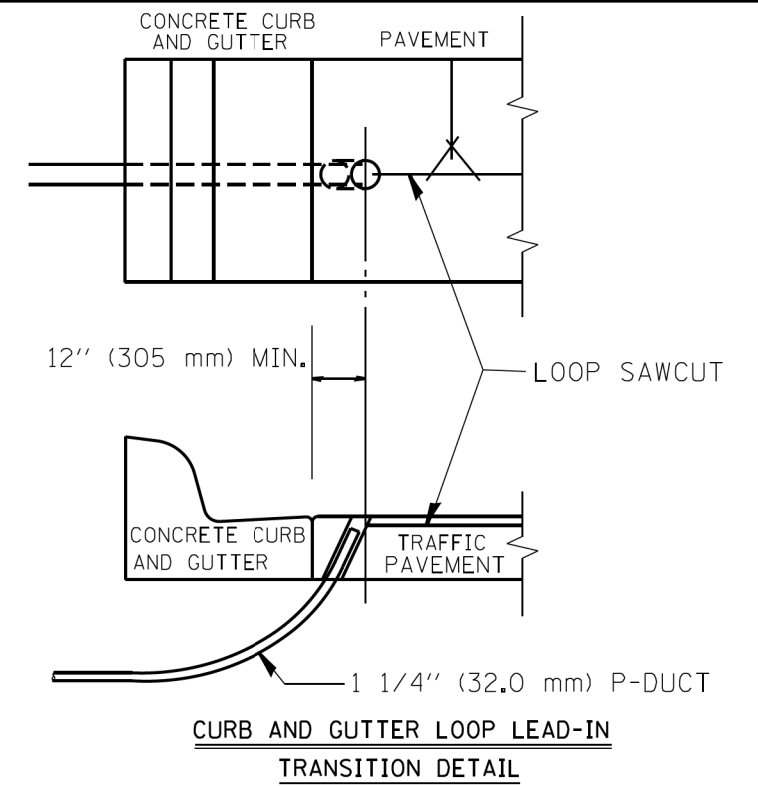


TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL

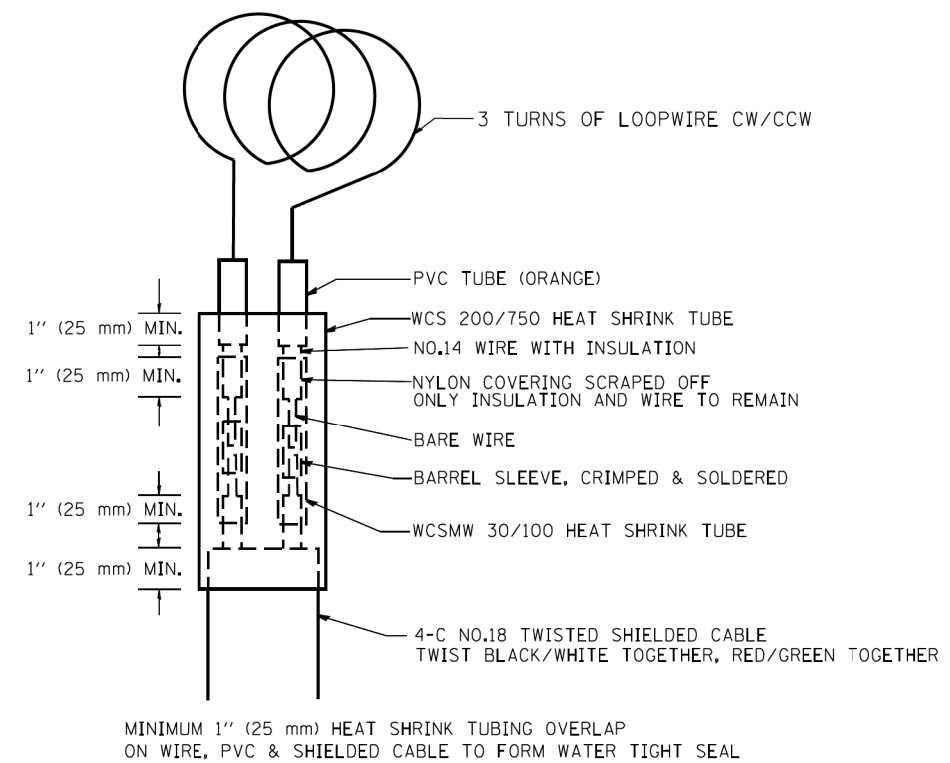
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL

LAYOUT FOR MULTIPLE LANE ROADWAY

LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN  
TRANSITION DETAIL



LOOP SPLICING REQUIREMENTS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

COMPANY NAME: TSC  
PROJECT CONTACT: MEZAG  
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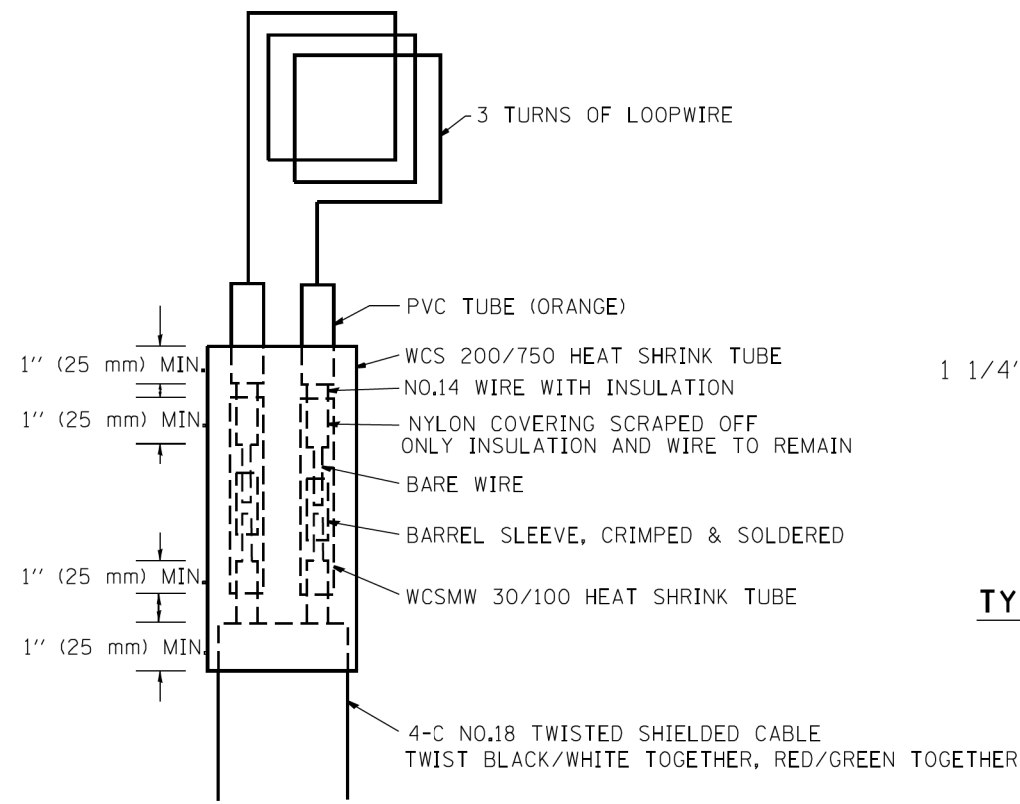
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ca:\pwork\pwork\mezag\d0287541\TSC\TYP.dgn		DRAWN - G.M.	REVISED - 10/96
	PLOT SCALE = 100.0000' / 1"	CHECKED - R.L.	REVISED - R.L. 03/2011
	PLOT DATE = 5/18/2012	DATE - 6-22-94	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.
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EXISTING  
ROUND INDUCTION LOOP  
TYPICALS

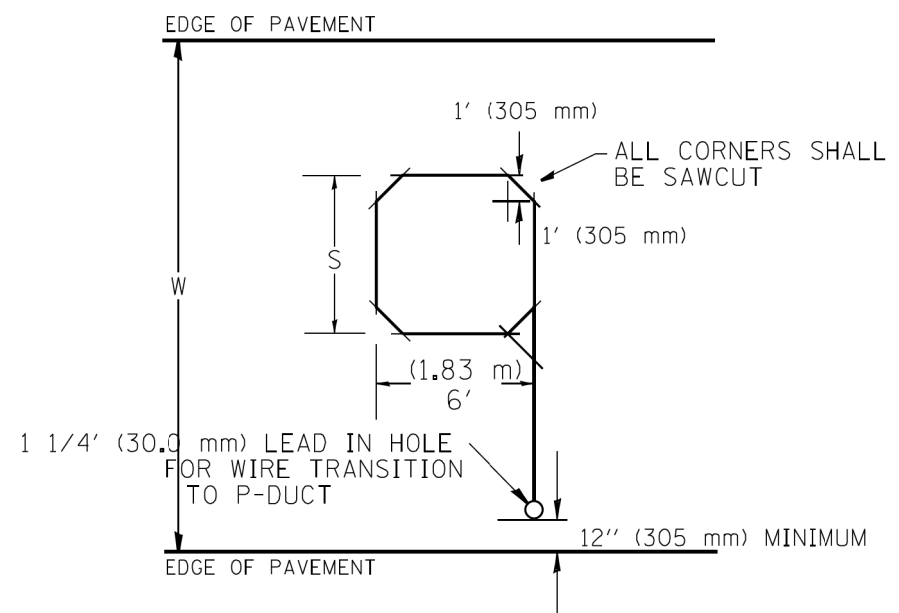
F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	163
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C10	



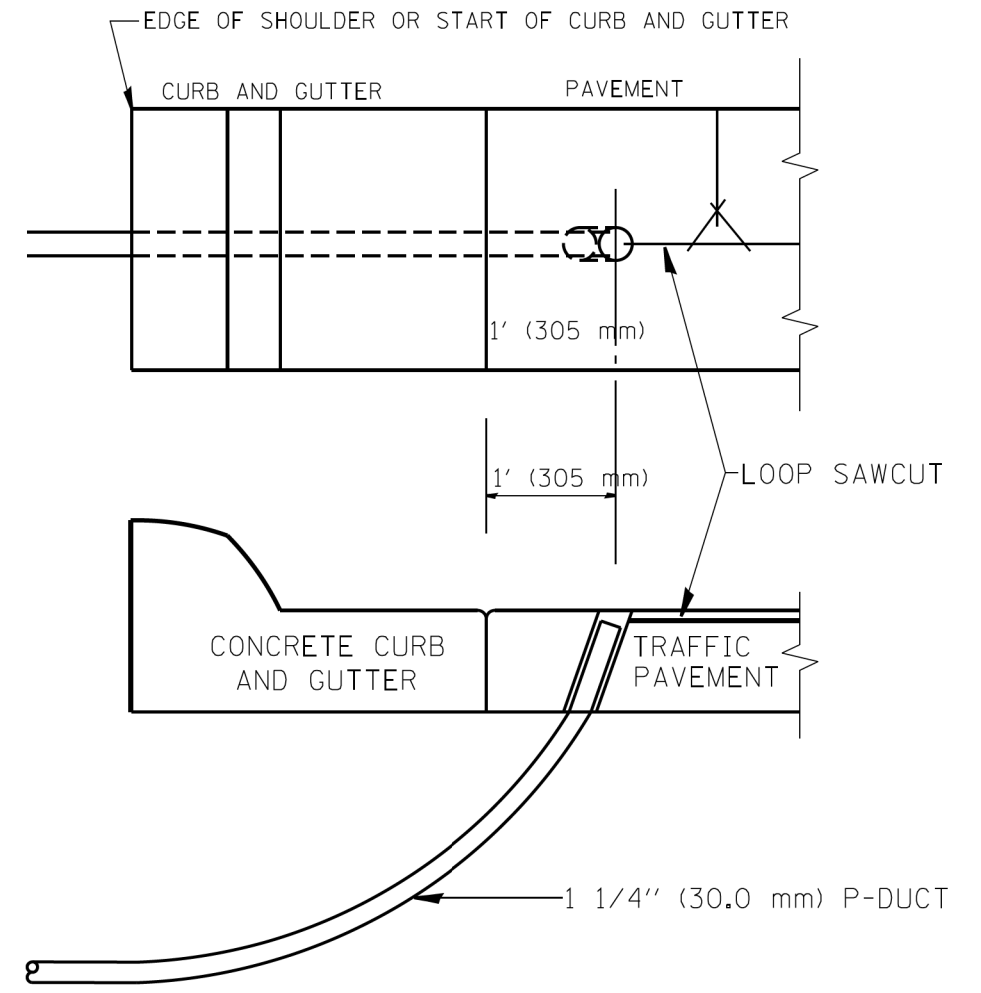
MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

**LOOP SPLICING REQUIREMENTS**

WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



**TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS**



**CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL**

**NOTES**

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

COMPANY NAME: #COMPANY NAMES  
 PROJECT CONTACT: #PROJECT CONTACTS  
 DATE PLOTTED: 10/28/2016 8:34:05 AM  
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 PEN TABLE: plot.tbl

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	PLOT DATE = 5/17/2012	DATE - 6-22-94	REVISED - 10/96

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER**

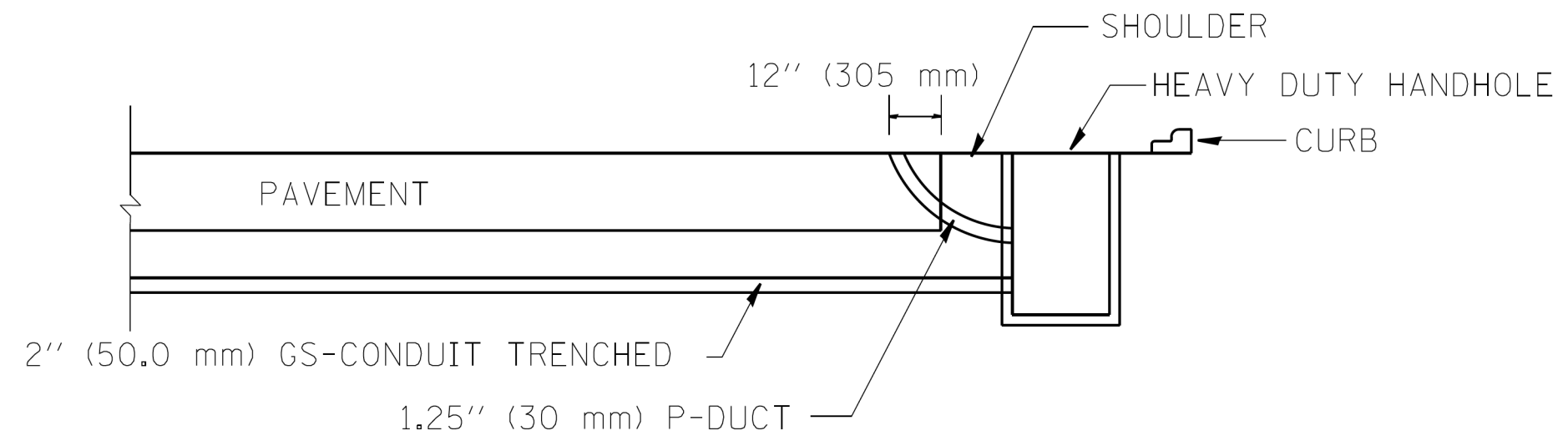
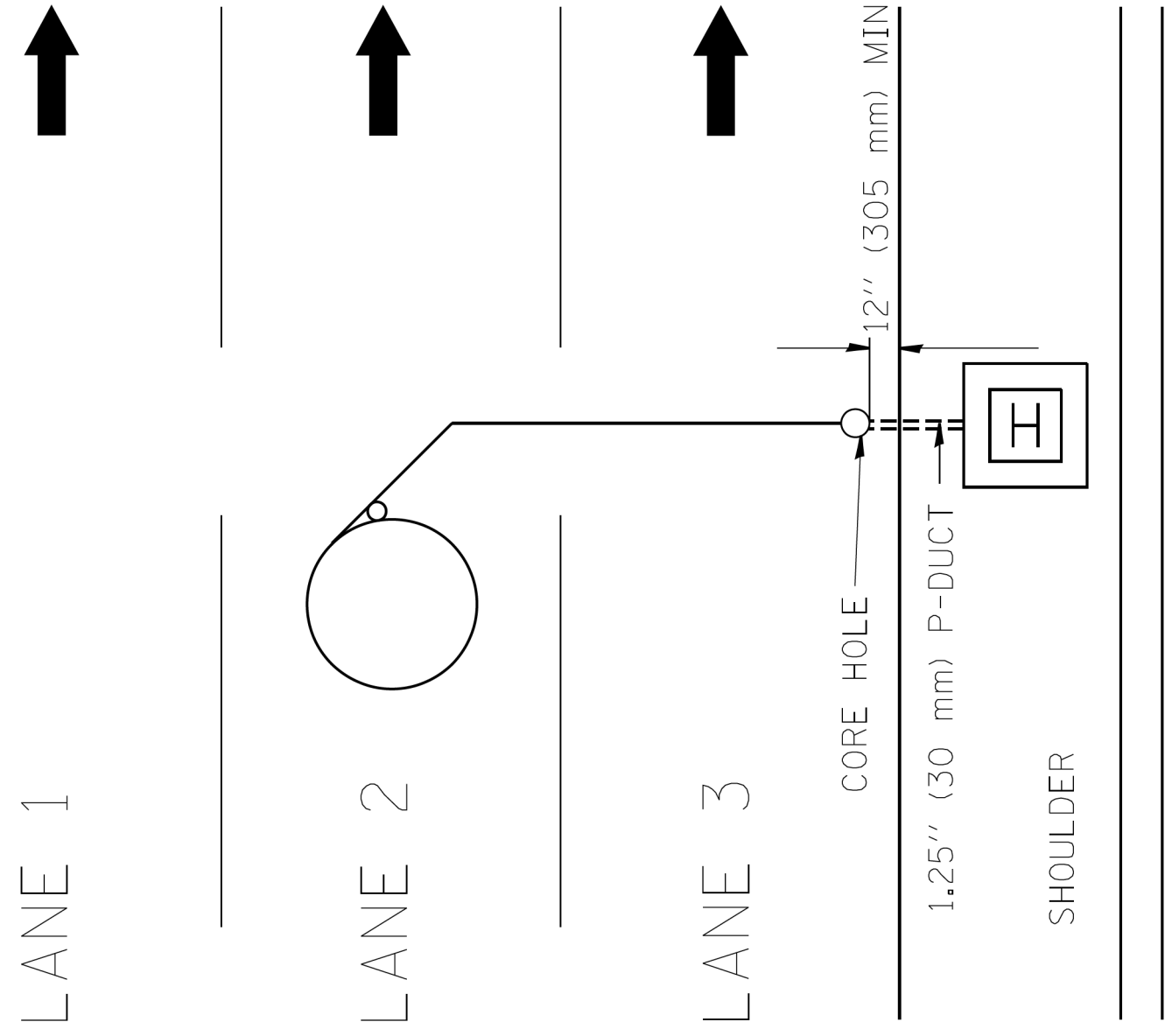
<b>RECTANGULAR INDUCTION LOOP TYPICAL</b>			
SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	

F.A. RTE. 94	SECTION 2016-003I	COUNTY COOK	TOTAL SHEETS 168	SHEET NO. 164
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C10	





COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 10/28/2016 8:35:00 AM  
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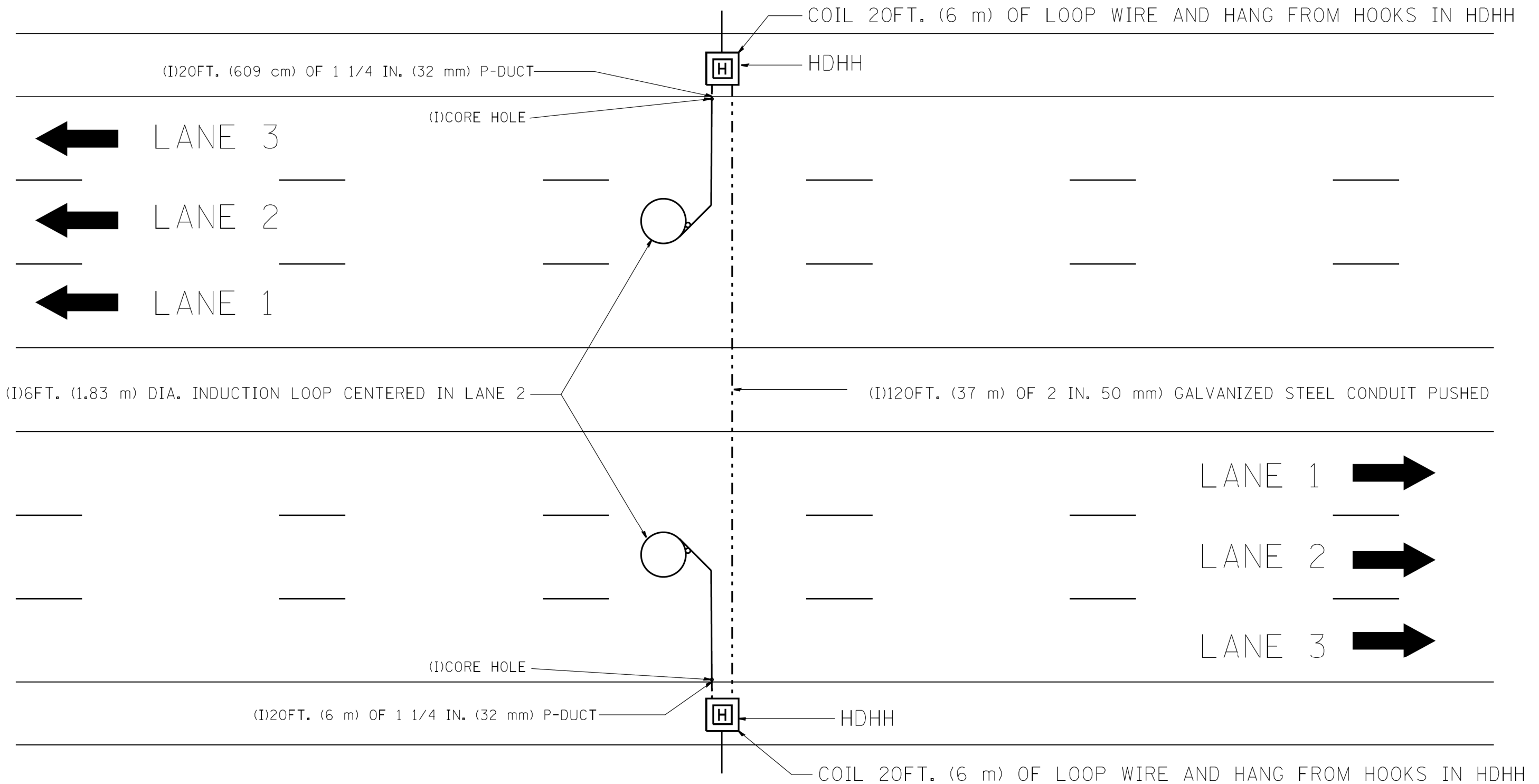


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	PLOT DATE = 5/17/2012	DATE - 11/7/95	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**TRAFFIC SYSTEMS CENTER**

<b>DIVE HOLE DUCT SYSTEM</b>			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	166
CONTRACT NO.			62C10	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**NOTE:**

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.  
IT SHALL NOT BE MEASURE FOR PAYMENT.

COMPANY NAME: COMPANY NAMES  
PROJECT CONTACT: PROJECT CONTACTS  
DATE PLOTTED: 10/28/2016 8:35:38 AM  
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PEN TABLE: plotlabel.tbl

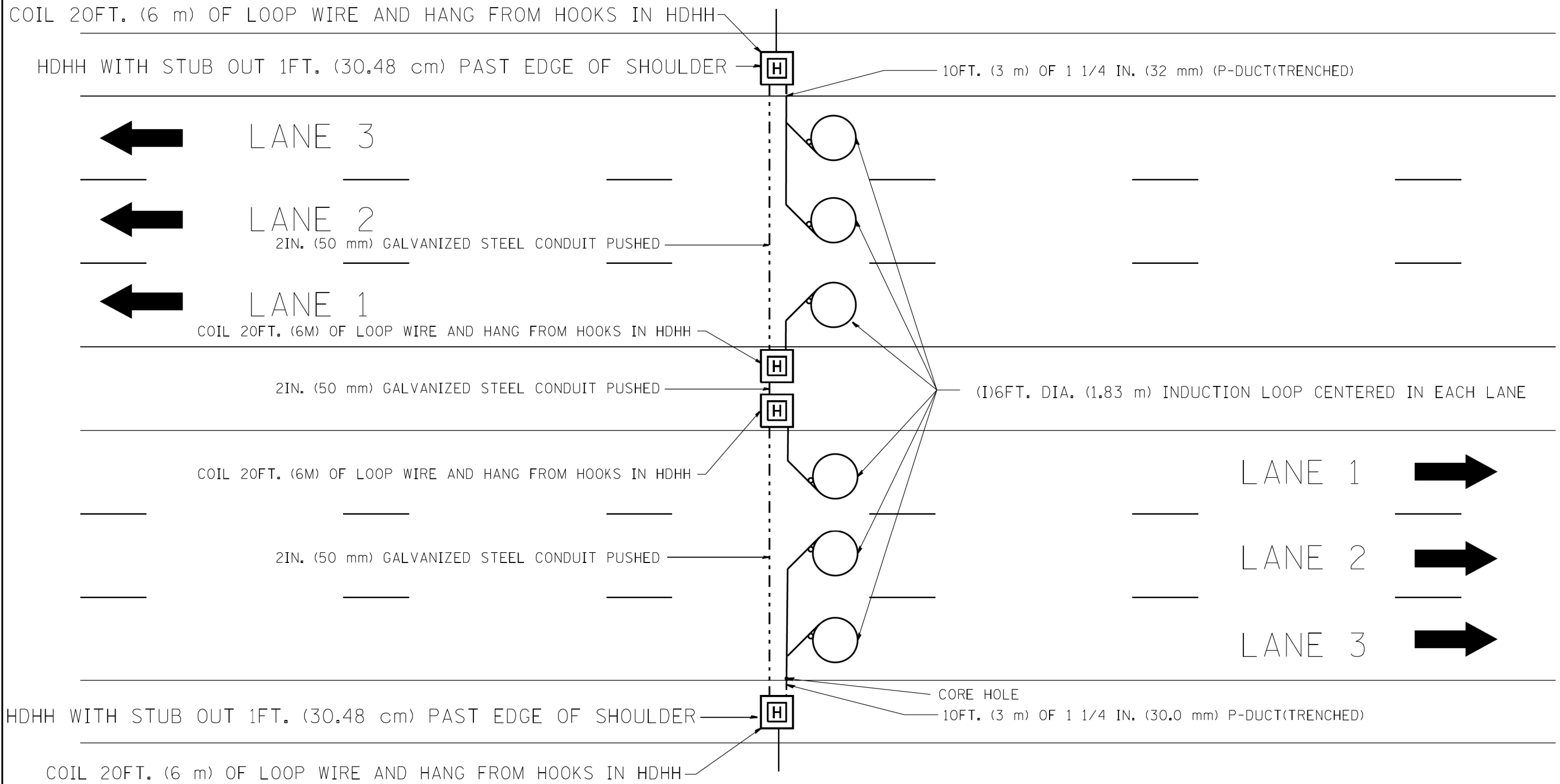
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	PLOT DATE = 5/17/2012	DATE - 01-31-07	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

ONE LANE COUNT STATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	167
CONTRACT NO.			62C10	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**NOTE:**

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP. IT SHALL NOT BE MEASURED FOR PAYMENT.

COMPANY NAME: COMPANY NAMES  
 PROJECT CONTACT: PROJECT CONTACTS  
 DATE PLOTTED: 10/28/2016 8:36:07 AM  
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PLOT SCALE = 100.0000' / in.		CHECKED - J.G.	REVISED -
PLOT DATE = 5/17/2012		DATE - 12-02-2010	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER

3 LANE COUNT STATION  
 (DIFFERENT DIRECTIONS)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-003I	COOK	168	168
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C10	