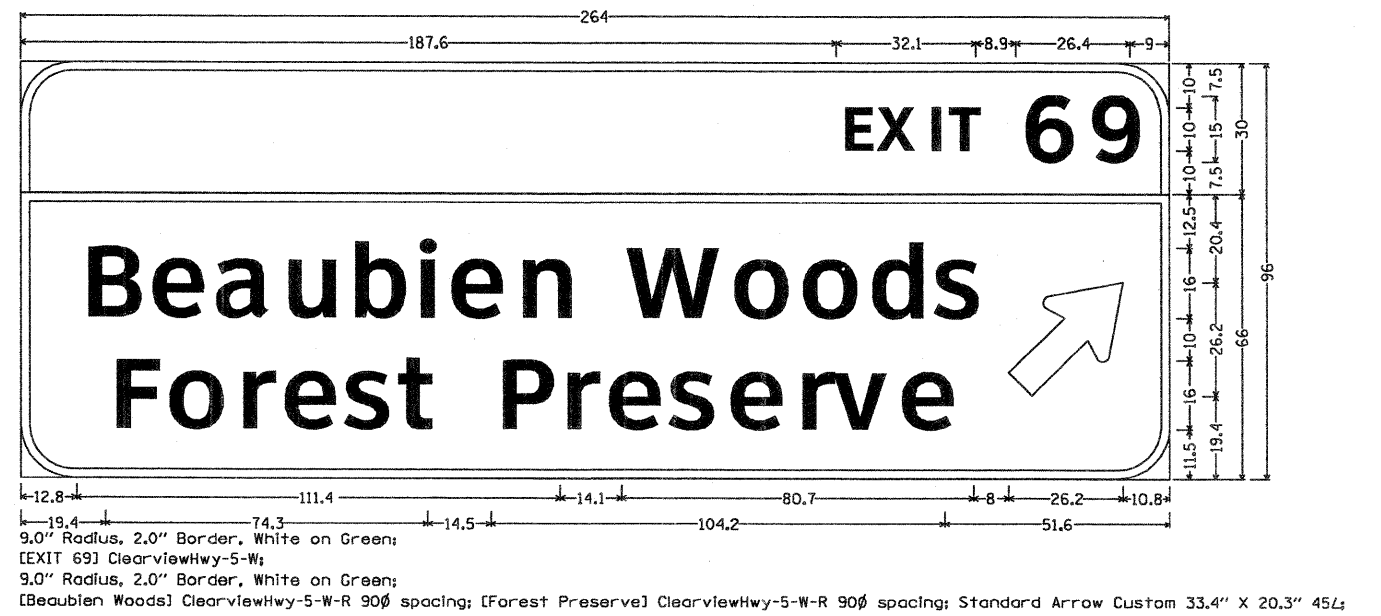
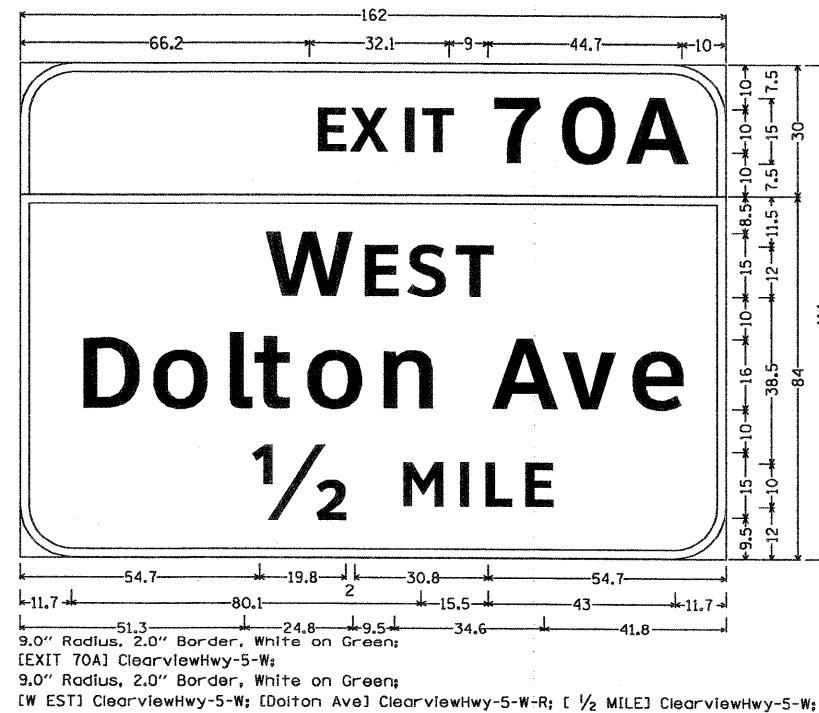


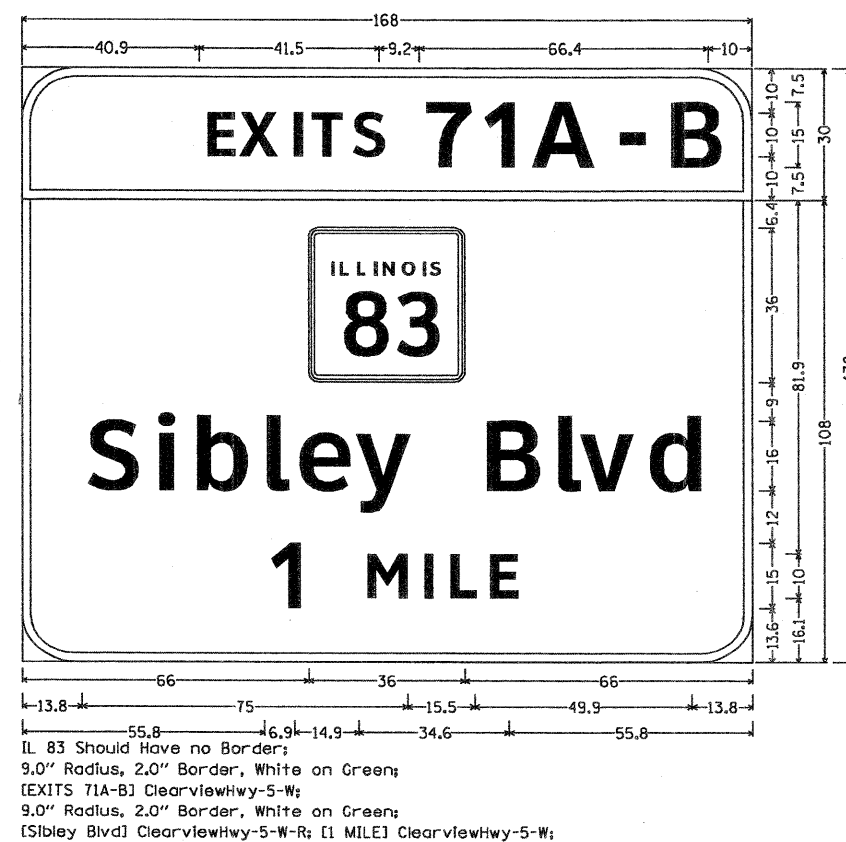
EB-TR-54



EB-TR-55



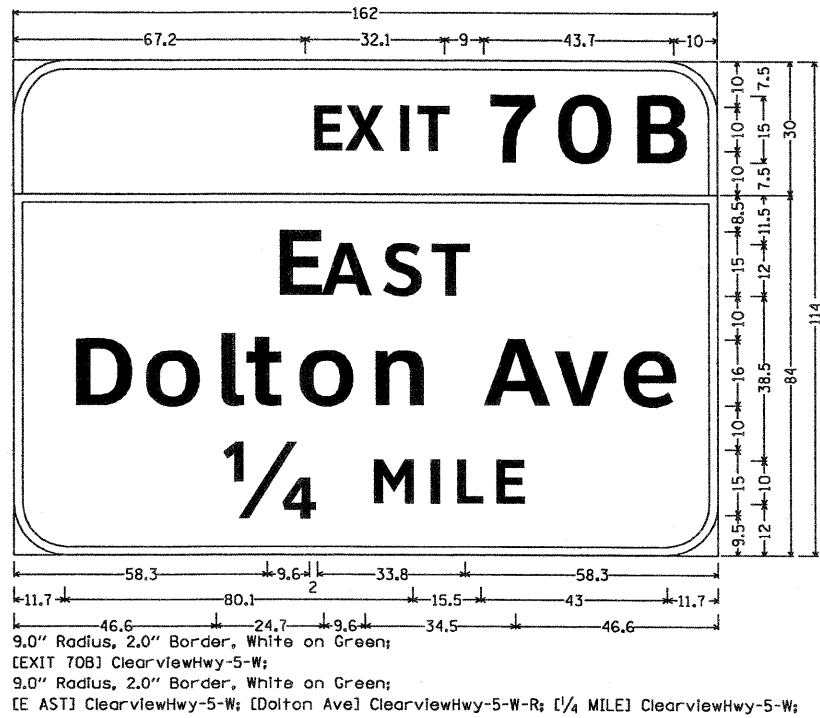
EB-CL-58



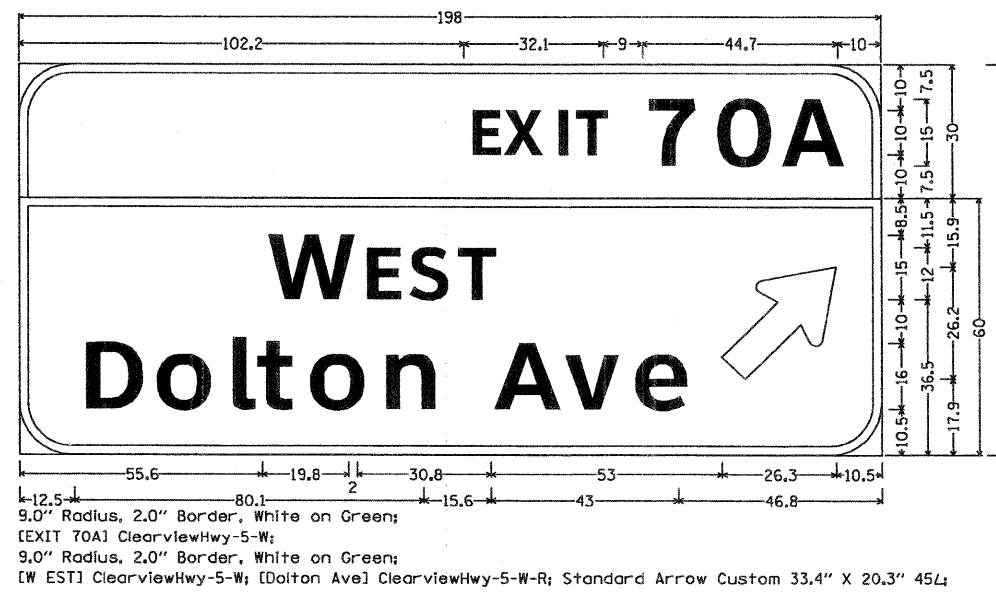
EB-TR-59

FILE NAME = D:\60C08-101-Signs.dgn	USER NAME = dwoznierski	DESIGNED - DRAWN - DMW, CDS	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BISHOP FORD EXPRESSWAY (I-94) SIGN DETAILS		F.A.I. RTE. 94	SECTION [0312-708W, ETC. & 1315RS-4]	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 101
PLLOT SCALE = N/A	CHECKED -	REVISED -	FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT				
PLLOT DATE = 2/6/2009	DATE - 2/6/2009	REVISED -	SCALE: N/A				SHEET NO. 8 OF 15 SHEETS	STA. TO STA.			
							CONTRACT NO. 60C08				

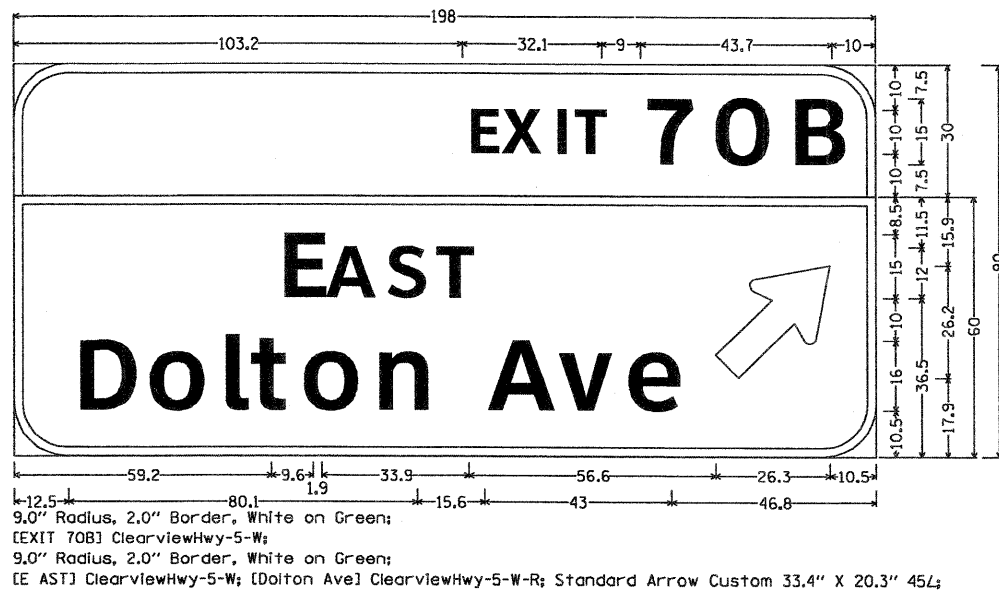
ALL DIMENSIONS ARE INCHES



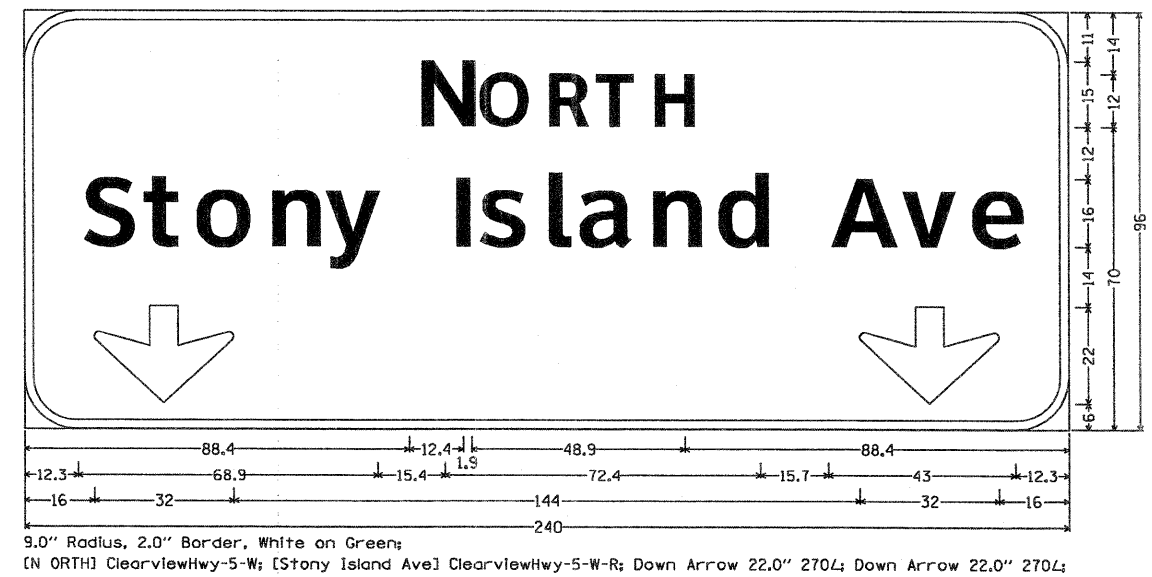
EB-TR-60



EB-TR-61



EB-CL-63



SI-TR-65

FILE NAME = D:\60C08-102-Sign\_9.dgn

USER NAME = dvoznisraki  
 PLOT SCALE = N/A  
 PLOT DATE = 2/6/2009

DESIGNED -  
 DRAWN - DMW, GDS  
 CHECKED -  
 DATE - 2/6/2009

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

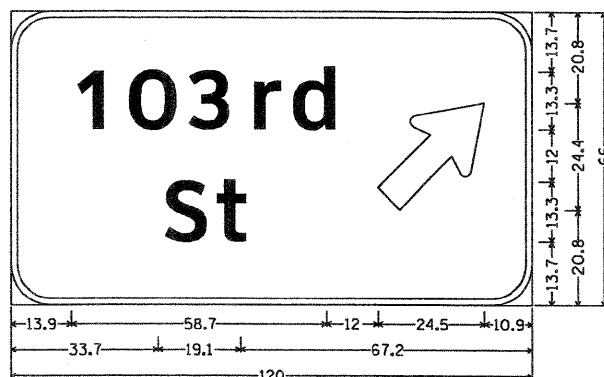
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BISHOP FORD EXPRESSWAY (I-94)  
 SIGN DETAILS

SCALE: N/A SHEET NO. 9 OF 15 SHEETS STA. TO STA.

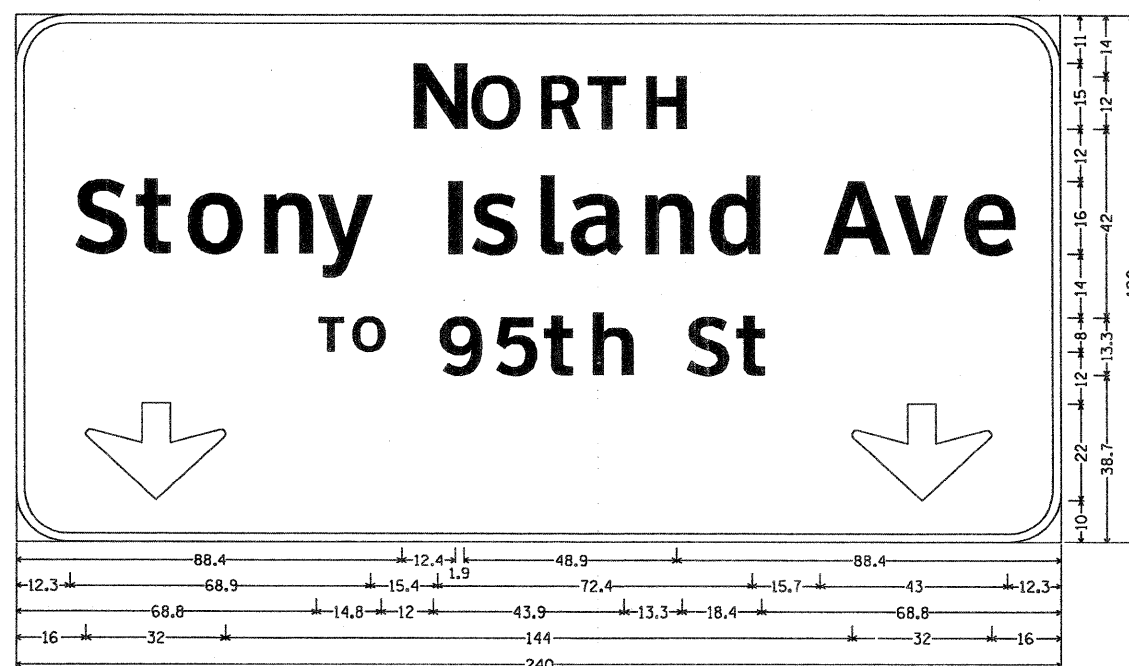
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	K0312-708W, ETC. & 1315RS-4	COOK	167	102
CONTRACT NO. 60C08				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

ALL DIMENSIONS ARE INCHES



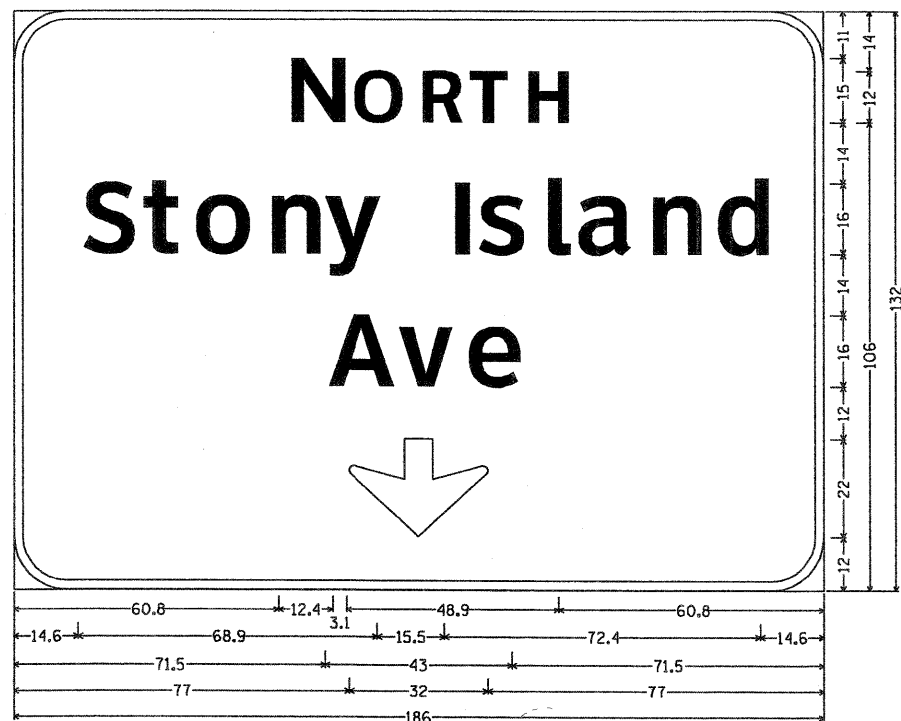
9.0" Radius, 1.5" Border, White on Green;  
 [103rd] ClearviewHwy-5-W; [St] ClearviewHwy-5-W;  
 Standard Arrow Custom 31.1" X 18.8" 45L

SI-TR-66  
 SI-TR-68  
 AND  
 SI-TR-72



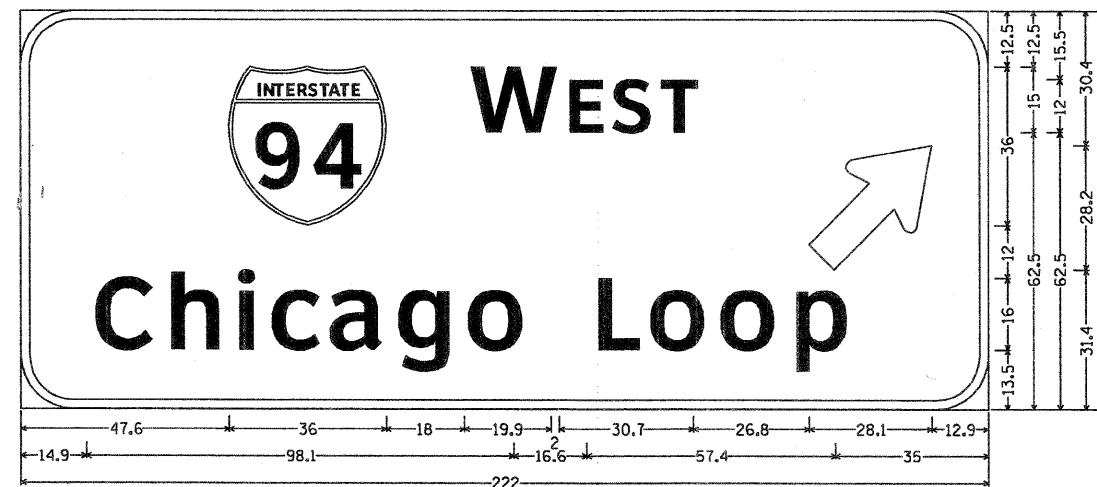
9.0" Radius, 2.0" Border, White on Green;  
 [N ORTH] ClearviewHwy-5-W; [Stony Island Ave] ClearviewHwy-5-W-R; [TO 95th St] ClearviewHwy-5-W-R; Down Arrow 22.0" 270L;  
 Down Arrow 22.0" 270L

SI-TR-67



9.0" Radius, 2.0" Border, White on Green;  
 [N ORTH] ClearviewHwy-5-W; [Stony Island] ClearviewHwy-5-W-R; [Ave] ClearviewHwy-5-W-R;  
 Down Arrow 22.0" 270L

SI-TR-69

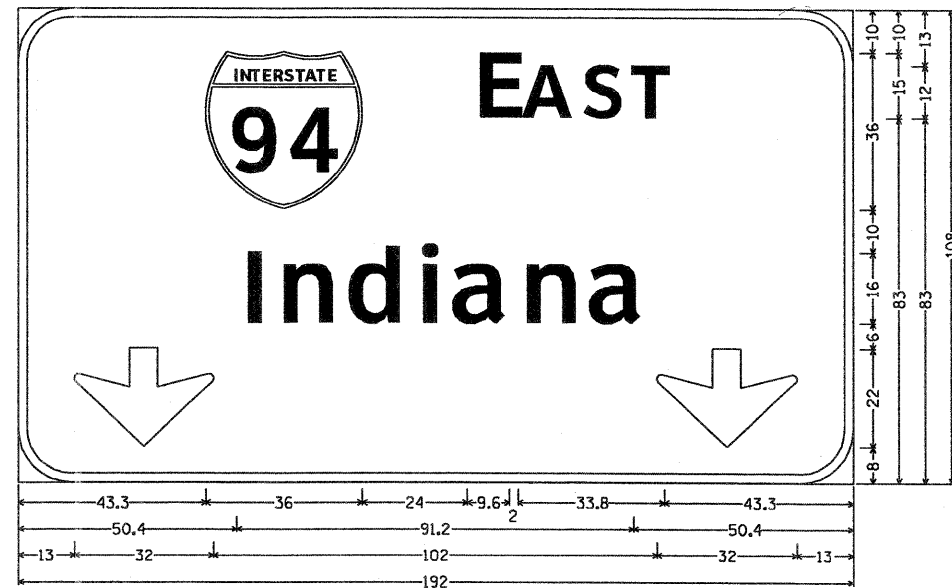


9.0" Radius, 2.0" Border, White on Green;  
 [W EST] ClearviewHwy-5-W; [Chicago Loop] ClearviewHwy-5-W-R; Standard Arrow Custom 35.8" X 21.6" 45L

SI-TR-70

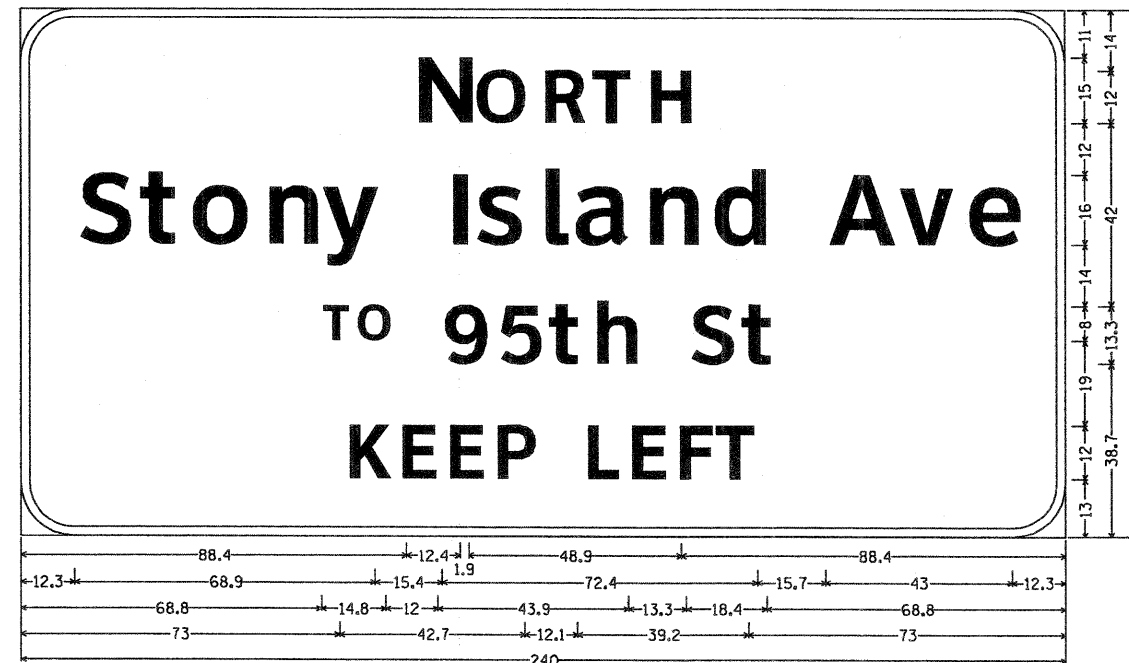
ALL DIMENSIONS ARE INCHES

FILE NAME = D168008-103-Sign_10.dgn	USER NAME = dwoznarski	DESIGNED - DRAWN - DMW, CDS	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BISHOP FORD EXPRESSWAY (I-94) SIGN DETAILS	F.A.I. RTE. 94	SECTION [0312-708W, ETC. & 1315RS-4]	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 103	
PLOT SCALE = N/A	CHECKED -	REVISED -	REVISED -			SCALE: N/A	SHEET NO. 10 OF 15 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 2/6/2009	DATE - 2/6/2009	REVISED -	REVISED -			CONTRACT NO. 60C08					



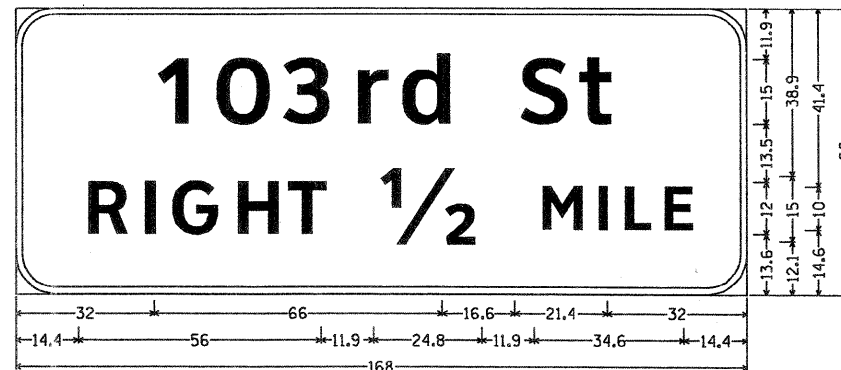
9.0" Radius, 2.0" Border, White on Green;  
 [EAST] ClearviewHwy-5-W; [Indiana] ClearviewHwy-5-W-R; Down Arrow 22.0" 270L; Down Arrow 22.0" 270L;

**EB-TR-06  
 AND  
 SI-TR-71**



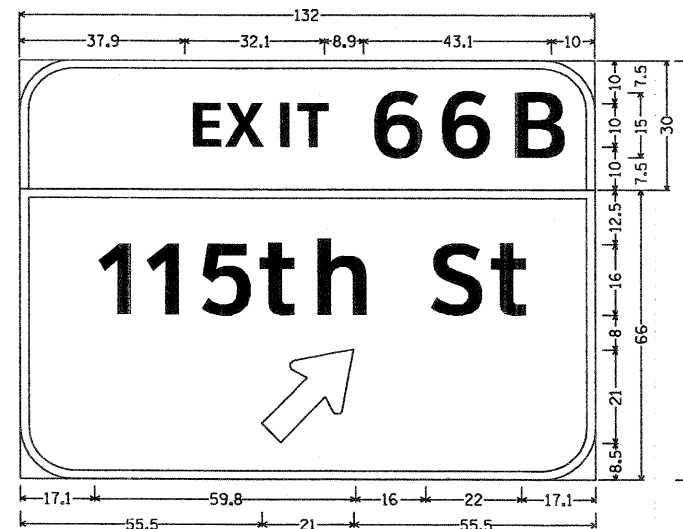
9.0" Radius, 2.0" Border, White on Green;  
 [NORTH] ClearviewHwy-5-W; [Stony Island Ave] ClearviewHwy-5-W-R; [TO 95th St] ClearviewHwy-5-W-R; [KEEP LEFT] ClearviewHwy-5-W-R;

**SI-TR-73**



9.0" Radius, 1.5" Border, White on Green;  
 [103rd St] ClearviewHwy-5-W; [RIGHT 1/2 MILE] ClearviewHwy-5-W;

**SI-TR-74**

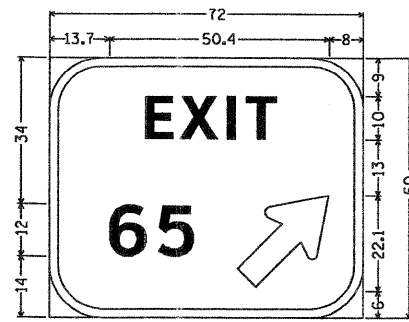


9.0" Radius, 2.0" Border, White on Green;  
 [EXIT 66B] ClearviewHwy-5-W;  
 9.0" Radius, 2.0" Border, White on Green;  
 [115th St] ClearviewHwy-5-W-R; Standard Arrow Custom 26.8" X 16.1" 45L;

**EB-BS-75**

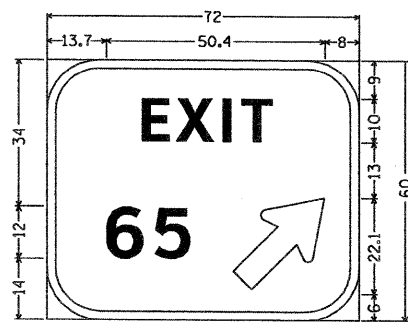
SIGN DETAILS TO BE FURNISHED BY THE DEPARTMENT  
 SI-BS-75

FILE NAME = 0160C08-104-Sign_11.dgn				USER NAME = dwaizuraki		DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94) SIGN DETAILS</b>		F.A.I. RTE. 94		SECTION 0312-708W, ETC. & 1315RS-4	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 104
PLOT SCALE = N/A		CHECKED -	REVISED -	SCALE: N/A		SHEET NO. 11 OF 15 SHEETS	STA.				TO STA.	CONTRACT NO. 60C08				
PLOT DATE = 2/6/2009		DATE - 2/6/2009	REVISED -	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT										
ALL DIMENSIONS ARE INCHES																



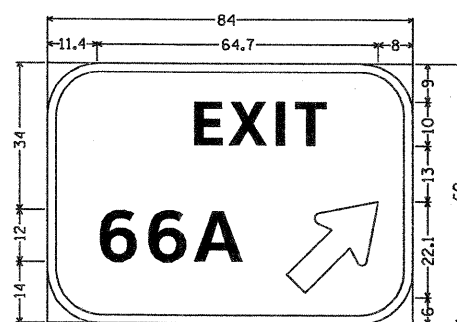
[EXIT 65] ClearviewHwy-5-W;

EB-WP-10



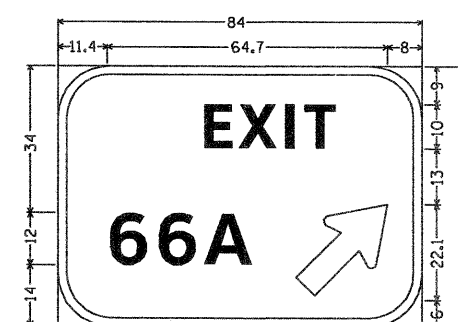
[EXIT 65] ClearviewHwy-5-W;

WB-WP-12



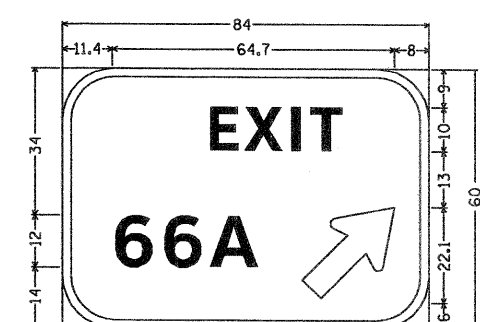
[EXIT 66A] ClearviewHwy-5-W;

EB-WP-23



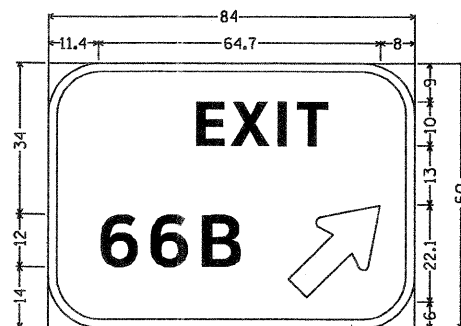
[EXIT 66A] ClearviewHwy-5-W;

WB-WP-24



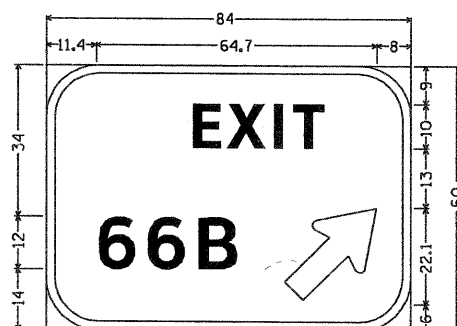
[EXIT 66A] ClearviewHwy-5-W;

WB-WP-26



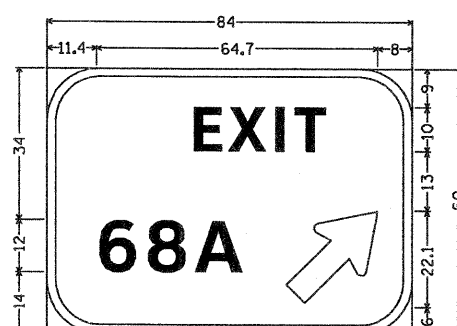
[EXIT 66B] ClearviewHwy-5-W;

EB-WP-27



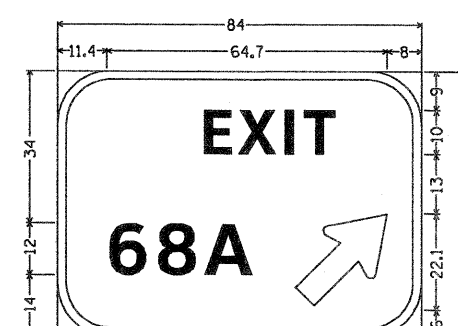
[EXIT 66B] ClearviewHwy-5-W;

WB-WP-28



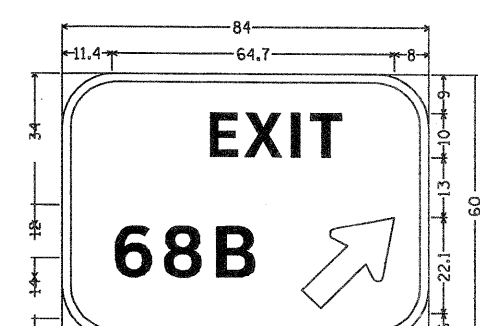
[EXIT 68A] ClearviewHwy-5-W;

EB-WP-39



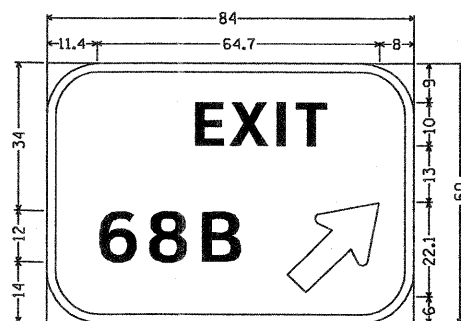
[EXIT 68A] ClearviewHwy-5-W;

WB-WP-40



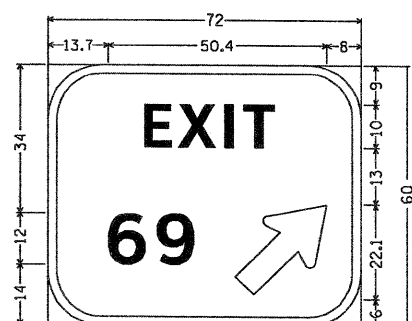
[EXIT 68B] ClearviewHwy-5-W;

EB-WP-43



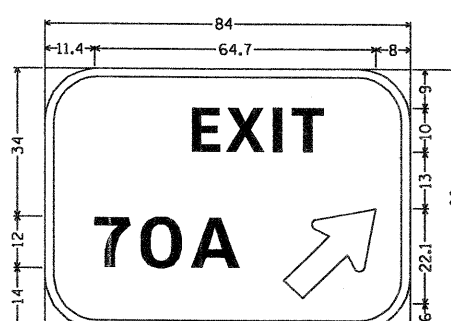
[EXIT 68B] ClearviewHwy-5-W;

WB-WP-44



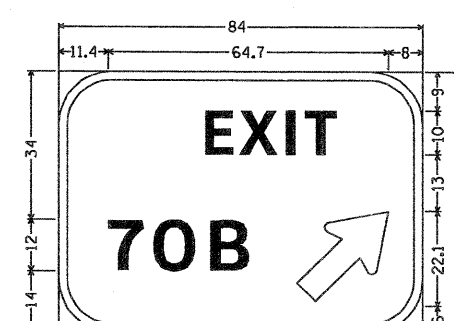
[EXIT 69] ClearviewHwy-5-W;

EB-LP-56



[EXIT 70A] ClearviewHwy-5-W;

EB-WP-62



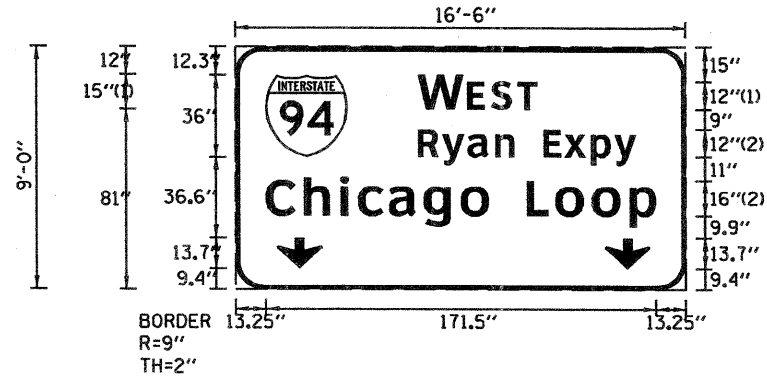
[EXIT 70B] ClearviewHwy-5-W;

EB-WP-64

ALL DIMENSIONS ARE INCHES

FILE NAME = 0168088-105-Sign_12.dgn	USER NAME = dwozniarski	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94) SIGN DETAILS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N/A	DRAWN - DMW, CDS	REVISED -					94	0312-708W, ETC. & 1315RS-4	COOK	167	105
PLOT DATE = 2/6/2009	CHECKED -	REVISED -	SCALE: N/A			SHEET NO. 11 OF 11 SHEETS	STA.	TO STA.	CONTRACT NO. 60C08			
	DATE - 2/6/2009	REVISED -							FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			

SIGN DETAIL  
1:75



Panel Style: guide\_exp\_pull-thru.ssi  
Dimensions are in inches tenths

FONT:  
(1) ClearviewHwy-5-W  
(2) ClearviewHwy-5-W-R

WB-TR-05  
AND  
WB-TR-77

Letter locations are panel edge to lower left corner

SIGN NUMBER	WB-TR-05 AND WB-TR-78
WIDTH x HGHT.	16'-6" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	13.2	59.7	36	36
ARDOWN	0	18	9.4	20	13.7
ARDOWN	0	162.1	9.4	20	13.7

LETTER POSITIONS (X)

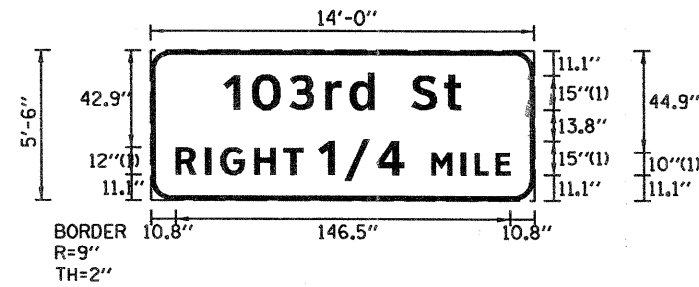
LETTER POSITIONS (X)											LENGTH	SERIESSIZE		
W	E	S	T									ClearviewHwy-5-W		
80	101.6	112.3	123.7								52.3	15,12		
R	y	a	n		E	x	p	y				ClearviewHwy-5-W-R		
80	90.9	101.9	113.9	122.2	135.1	144.4	155.9	166.5			95.8	129.8		
C	h	i	c	a	g	o		L	o	o	p			ClearviewHwy-5-W-R
13.2	30.1	45.9	53.8	67.3	82.6	98.7	111	127.6	140.3	156.4	173.2		171.5	1613



SIGN DETAIL

1:75

SIGN NUMBER	SI-BS-76
WIDTH x HGHT.	14'-0" x 5'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White



FONT:  
(1) ClearviewHwy-5-W

SI-BS-75

Panel Style: guide\_exp\_advance\_b.ssi  
Dimensions are in inches.tenths

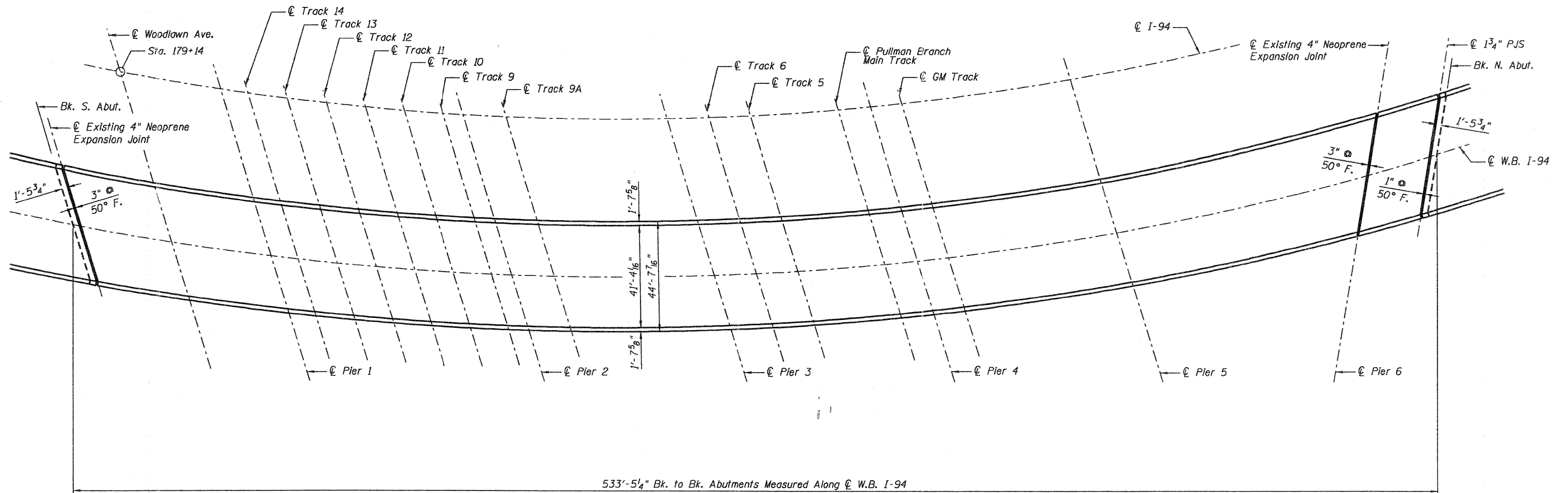
Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WID	HT

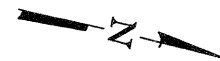
LETTER POSITIONS (X)													LENGTH	SERIESIZE			
1	0	3	r	d		S	t										ClearviewHwy-5-W
32.1	44.4	60.8	76.4	87	97.9	114.4	128.5									103.8	1512.2
R	I	G	H	T	1	/	4	M	I	L	E						ClearviewHwy-5-W
10.8	23.9	30.5	45.2	57.9	73.4	84.8	99	122.8	135.9	141.9	150.9					146.5	12,15,10



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN



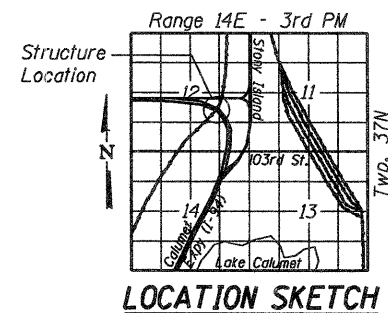
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	25,830

Concrete Sealer to be placed on deck surface, top and front face of parapets.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



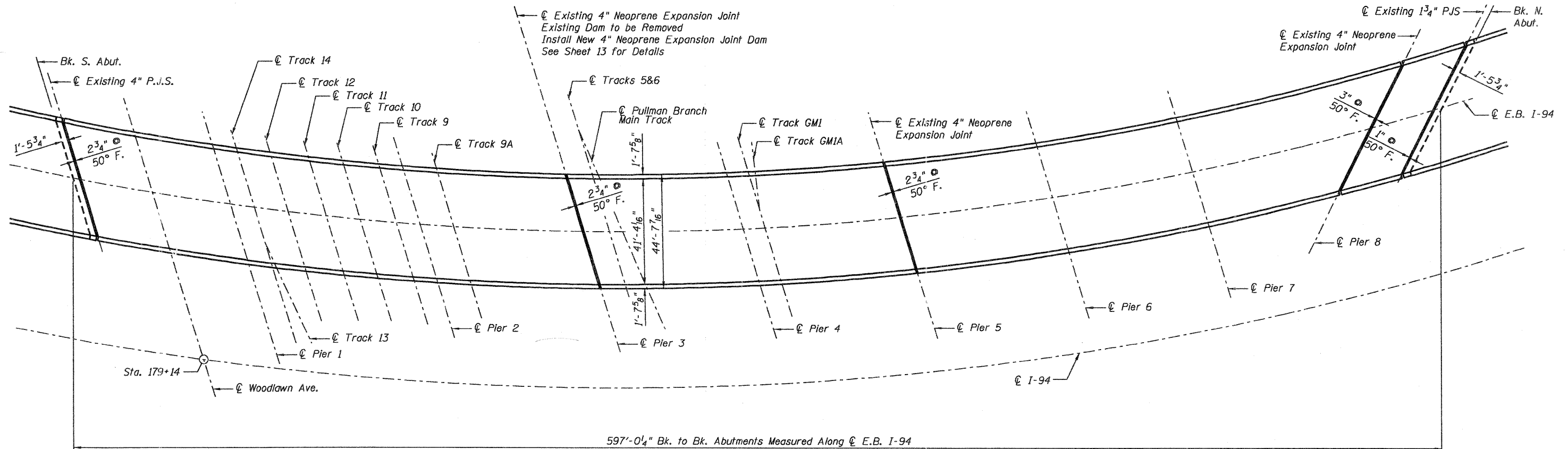
**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**WESTBOUND I-94 OVER**  
**NORFOLK SOUTHERN R.R. YARD**  
**COOK COUNTY**  
**STATION 179+14**  
**STRUCTURE NO. 016-0149**

**ZROKA**  
engineering

Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

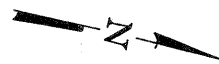
SHEET NO. 1 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4	COOK	167	109
S.N. 016-0149			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



597'-0 1/4" Bk. to Bk. Abutments Measured Along  $\text{\textcircled{C}}$  E.B. I-94

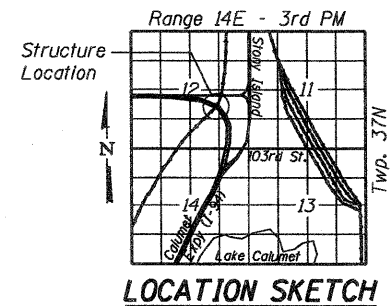
**PLAN**



**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	28,540
Neoprene Expansion Joint (Dam)	Foot	47

Concrete Sealer to be placed on deck surface, top and front face of parapets.



**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**EASTBOUND I-94 OVER**  
**NORFOLK SOUTHERN R.R. YARD**  
**COOK COUNTY**  
**STATION 179+14**  
**STRUCTURE NO. 016-0150**

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

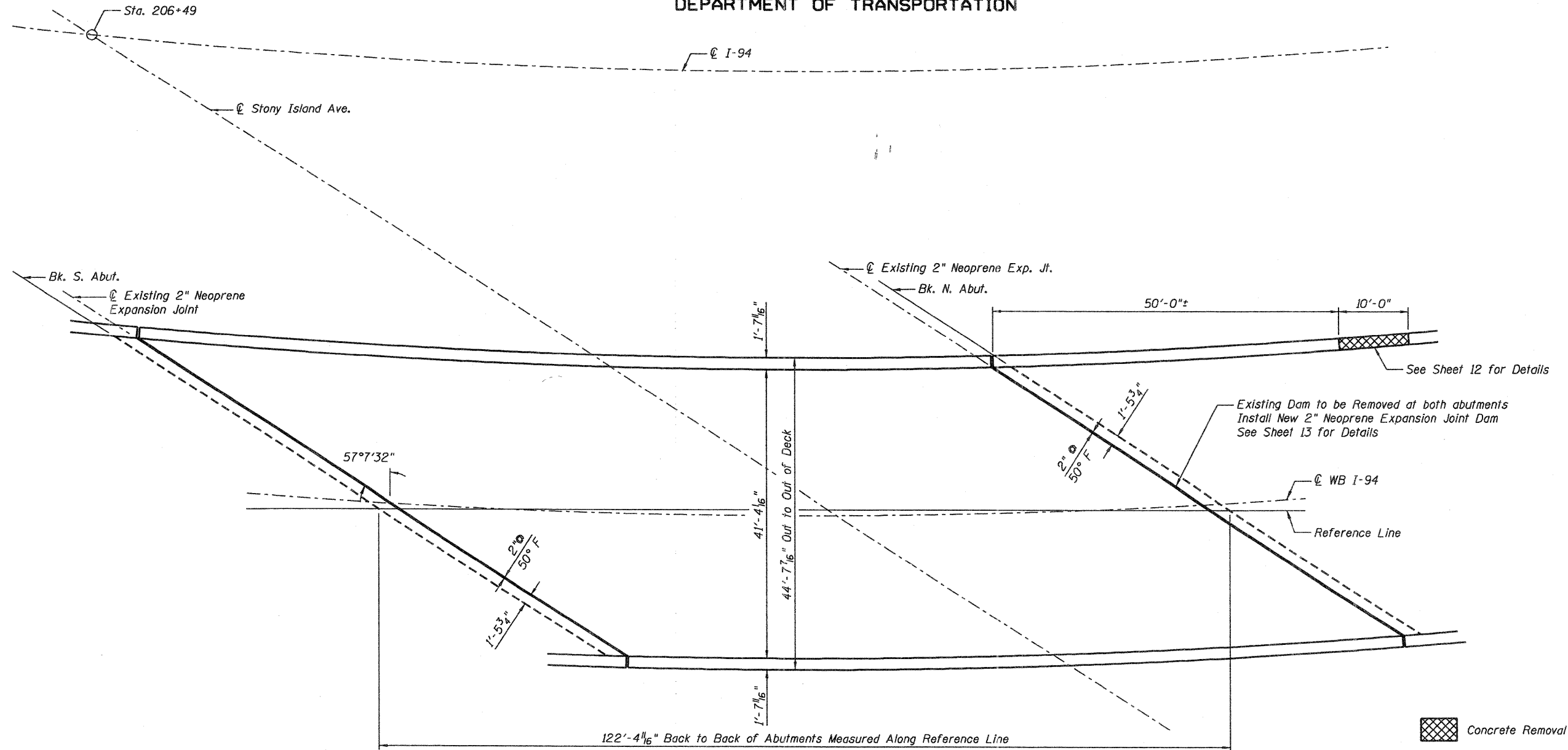
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**ZROKA**  
engineering

Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

SHEET NO. 2 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4	COOK	167	110
	S.N. 016-0150			CONTRACT NO. 60C08	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**TOTAL BILL OF MATERIAL**

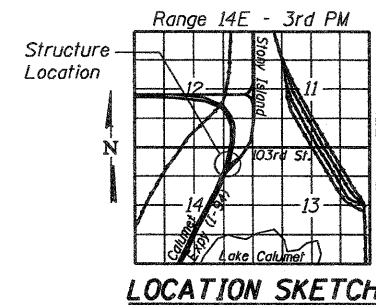
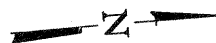
Item	Unit	Total
Concrete Sealer	Sq. Ft.	5730
Neoprene Expansion Joint (Dam)	Foot	159
Concrete Removal	Cu. Yd.	0.6
Concrete Superstructures	Cu. Yd.	0.6
Reinforcement Bars (Epoxy Coated)	Pound	70

Concrete Sealer to be placed on deck surface, top and front face of parapets.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**PLAN**



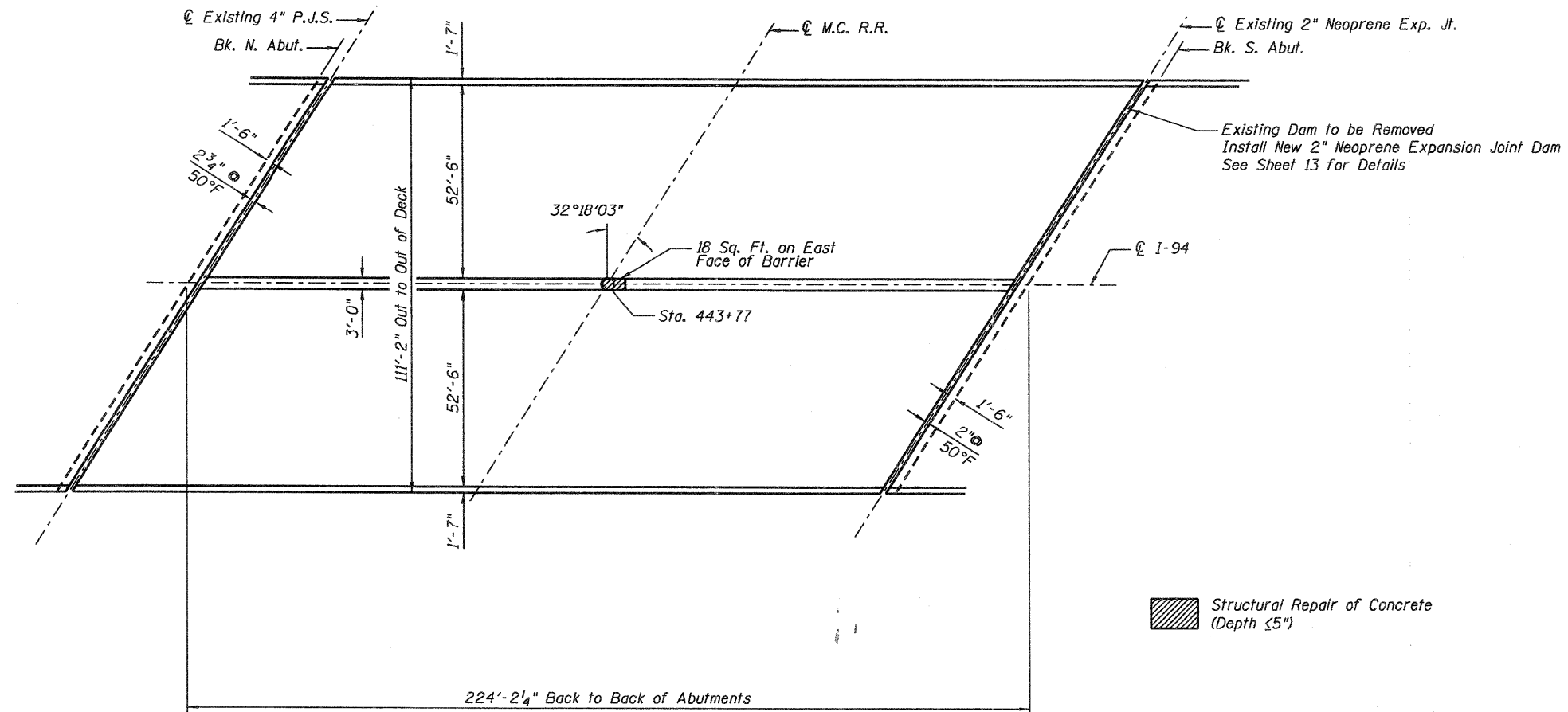
**LOCATION SKETCH**

**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**WESTBOUND I-94 OVER**  
**STONY ISLAND AVE.**  
**COOK COUNTY**  
**STATION 206+49**  
**STRUCTURE NO. 016-0153**

SHEET NO. 3 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	10312-708W, ETC. & 1315RS-4	COOK	167	111
S.N. 016-0153			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

**ZROKA**  
engineering  
Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**PLAN**  
N

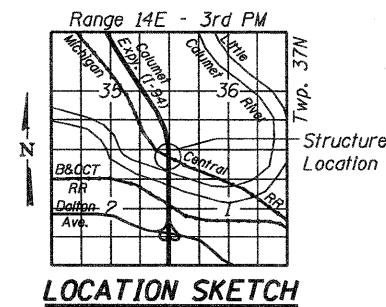
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	26,430
Neoprene Expansion Joint (Dam)	Foot	132
Structural Repair of Concrete (Depth ≤5")	Sq. Ft.	18

Concrete Sealer to be placed on deck surface, top and front face of parapets.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

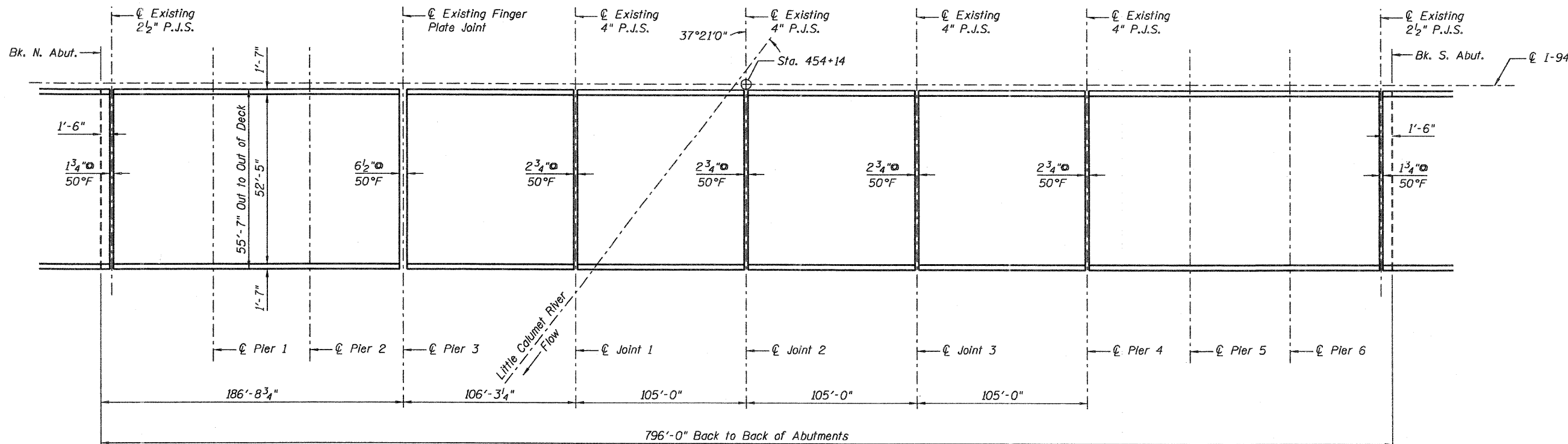


**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**I-94 OVER**  
**MICHIGAN CENTRAL R.R.**  
**COOK COUNTY**  
**STATION 443+77**  
**STRUCTURE NO. 016-0157**

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4216 North Hermitage  
Chicago, IL 60615

SHEET NO. 4 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4	COOK	167	112
S.N. 016-0157			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7   ILLINOIS   FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN  
→ Z ←

Note:  
Existing 4" P.J.S. to be removed and replaced with  
Silicone Joint Sealer, 2 3/4" at Joints 1, 2 & 3 and  
at Pier 4. See Sheet 12 for details.

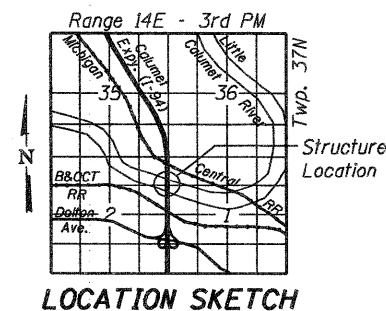
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	47530
Silicone Joint Sealer, 2 3/4"	Foot	222

Concrete Sealer to be placed on deck surface, top and front face of parapets.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

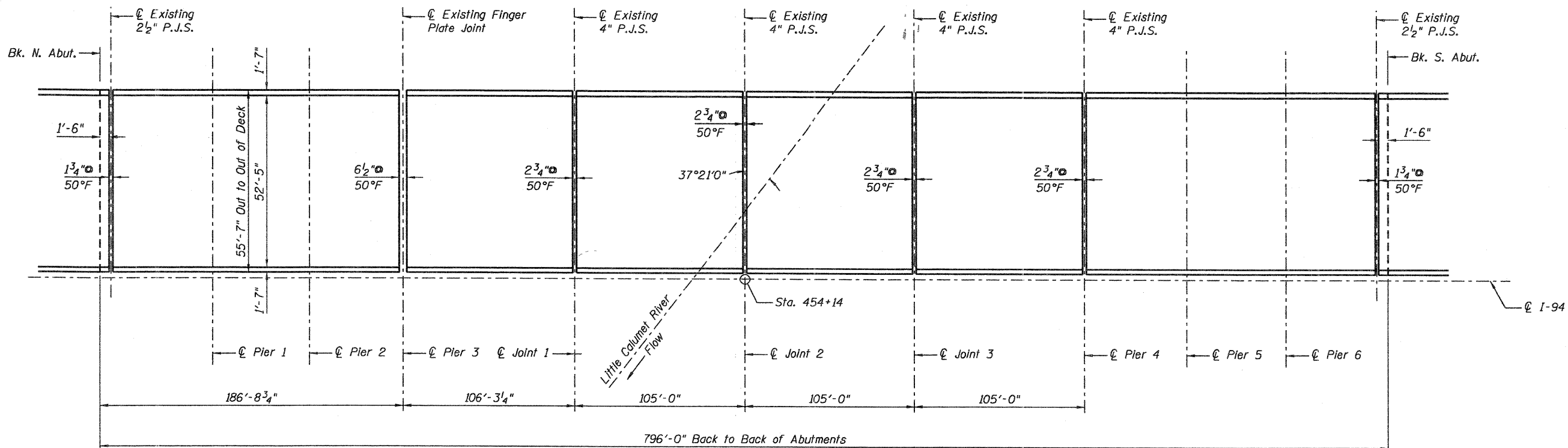


**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**EASTBOUND I-94 OVER**  
**LITTLE CALUMET RIVER**  
**COOK COUNTY**  
**STATION 454+14**  
**STRUCTURE NO. 016-0158**

SHEET NO. 5 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4	COOK	167	113
S.N. 016-0158			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

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4216 North Hermitage  
Chicago, IL 60613

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DEPARTMENT OF TRANSPORTATION



Note:  
Existing 4" P.J.S. to be removed and replaced with Silicone Joint Sealer, 2 3/4" at Pier 4. See Sheet 12 for details.

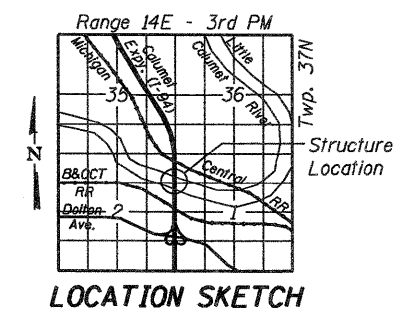
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	47530
Silicone Joint Sealer, 2 3/4"	Foot	56

Concrete Sealer to be placed on deck surface, top and front face of parapets.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



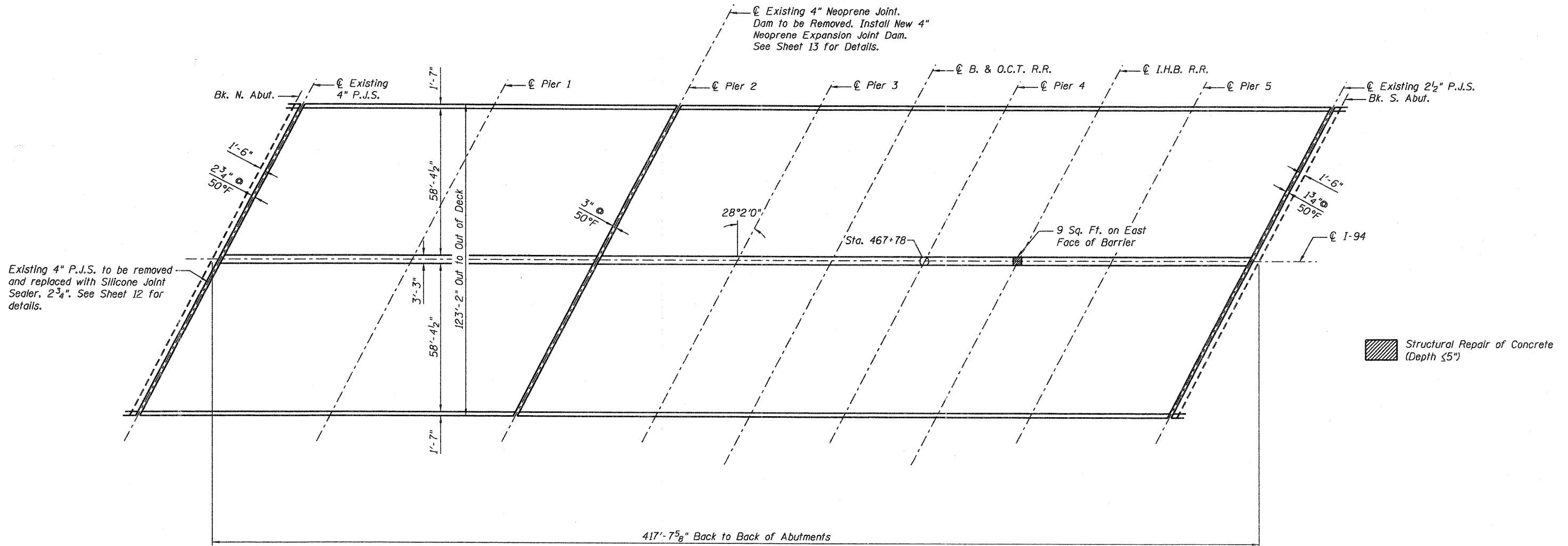
**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**WESTBOUND I-94 OVER**  
**LITTLE CALUMET RIVER**  
**COOK COUNTY**  
**STATION 454+14**  
**STRUCTURE NO. 016-0159**

**ZROKA**  
engineering

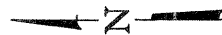
Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

SHEET NO. 6 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W,ETC. & 1315)RS-4	COOK	167	114
S.N. 016-0159			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN



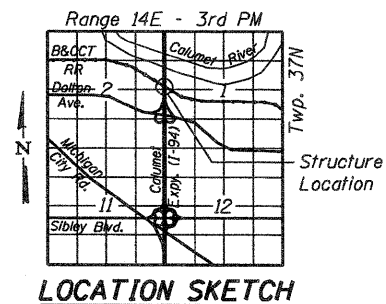
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	5448.0
Neoprene Expansion Joint (Dam)	Foot	140
Structural Repair of Concrete (Depth $\le 5''$ )	Sq. Ft.	9
Silicone Joint Sealer, 2 3/4"	Foot	140

Concrete Sealer to be placed on deck surface, top and front face of parapets.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS



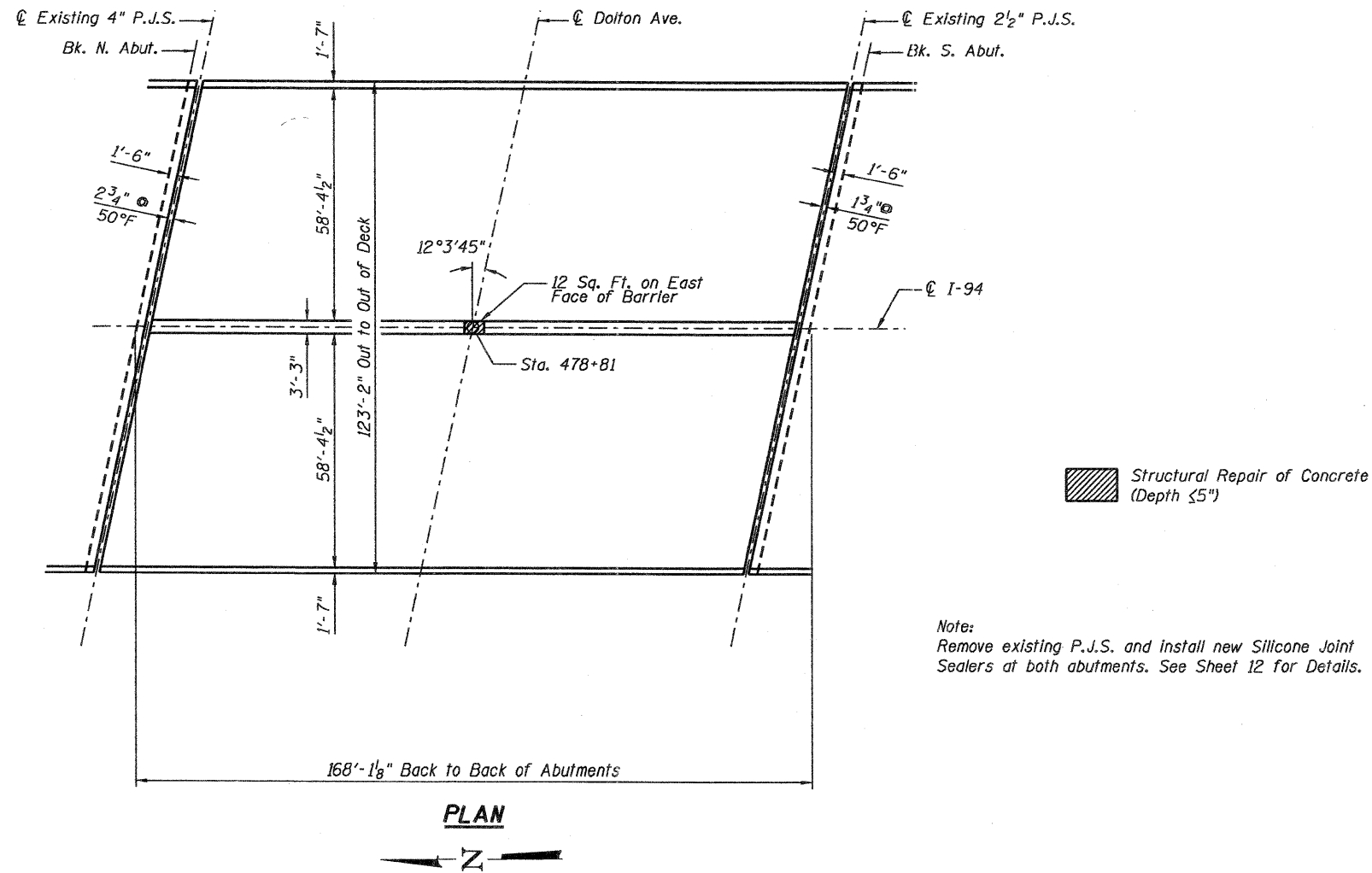
**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**I-94 OVER**  
**B.&O.C.T. R.R. & I.H.B. R.R.**  
**COOK COUNTY**  
**STATION 467+78**  
**STRUCTURE NO. 016-0160**

**ZROKA**  
engineering

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4216 North Hamitage  
Chicago, IL 60613

SHEET NO. 7 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4	COOK	167	115
S.N. 016-0160			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Note:  
Remove existing P.J.S. and install new Silicone Joint Sealers at both abutments. See Sheet 12 for Details.

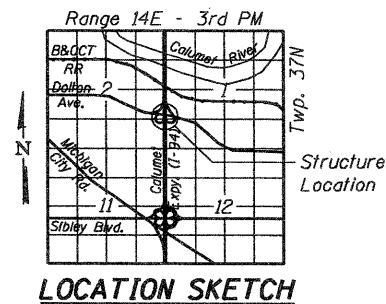
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	21710
Structural Repair of Concrete (Depth ≤5")	Sq. Ft.	12
Silicone Joint Sealer, 2 3/4"	Foot	126
Silicone Joint Sealer, 1 3/4"	Foot	126

Concrete Sealer to be placed on deck surface, top and front face of parapets.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS



**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**I-94 OVER**  
**DOLTON AVENUE**  
**COOK COUNTY**  
**STATION 478+81**  
**STRUCTURE NO. 016-0161**

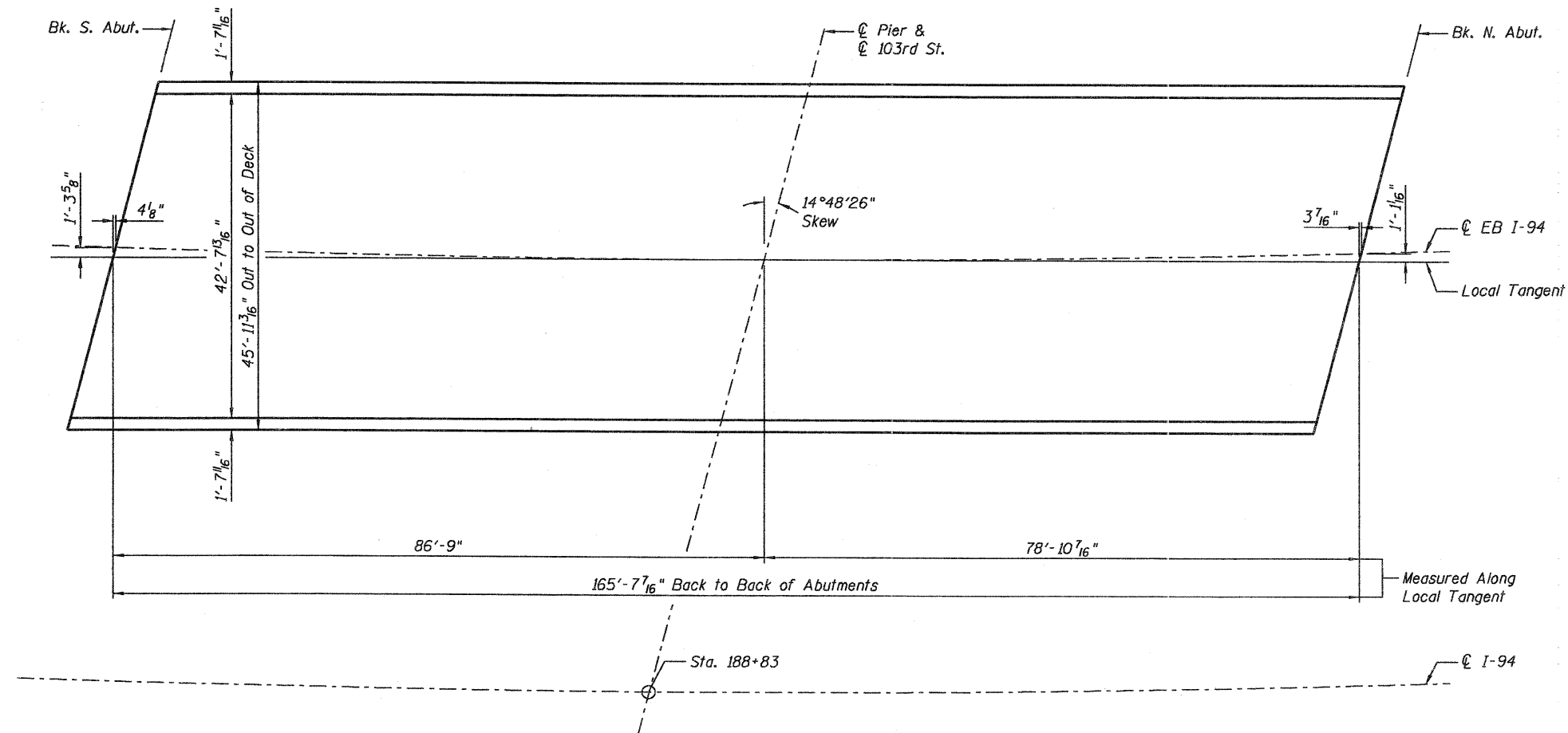
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4216 North Hermitage  
Chicago, IL 60613

SHEET NO. 8 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W.ETC. & 1315)RS-4	COOK	167	116
S.N. 016-0161			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

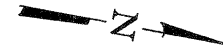




STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN



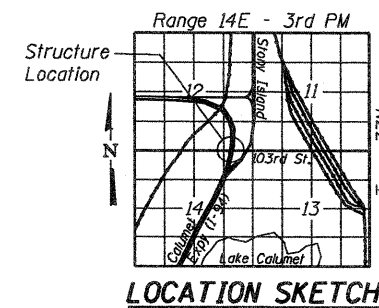
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	8320

Concrete Sealer to be placed on deck surface, top and front face of parapets.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

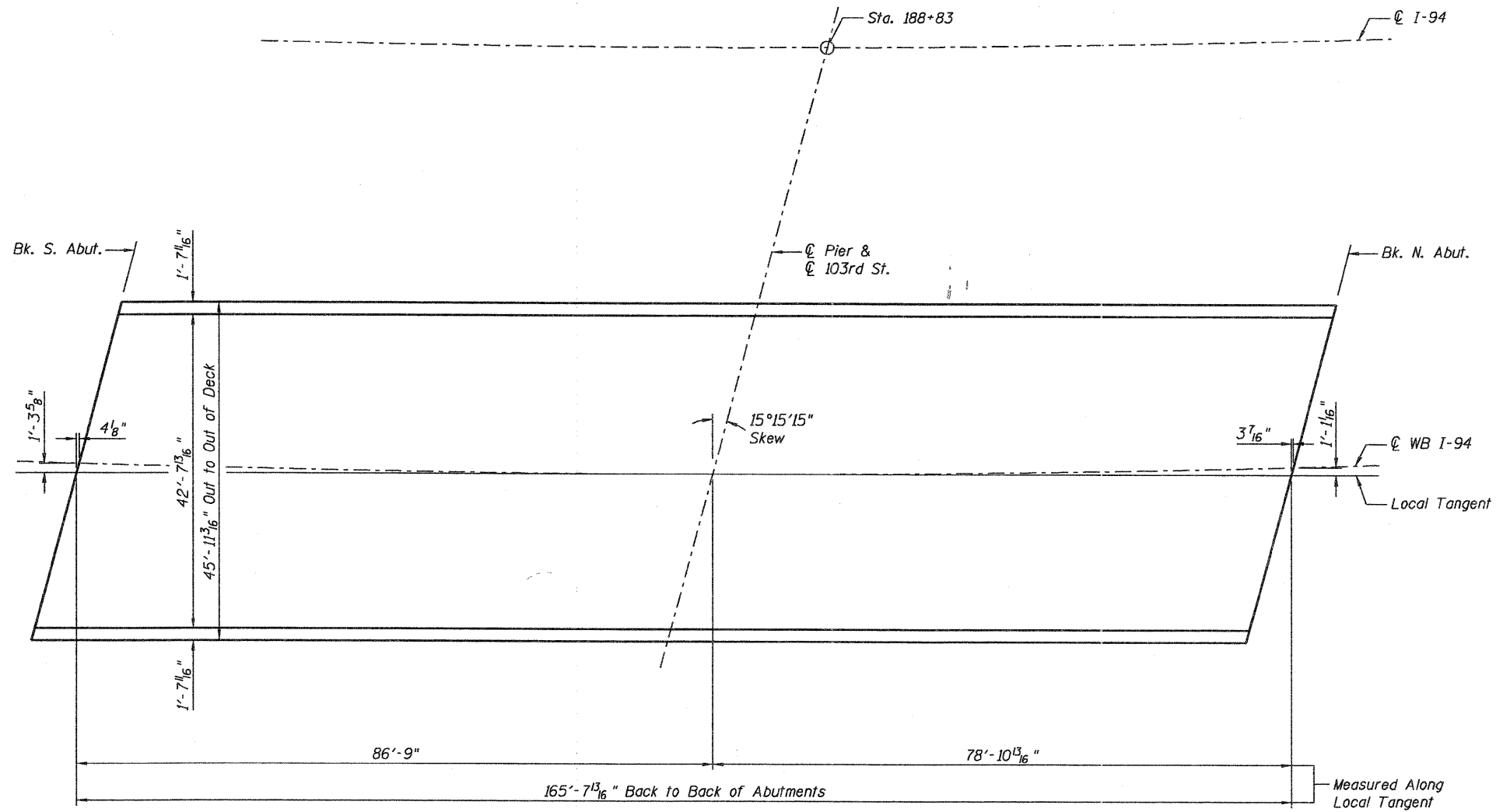


**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**EASTBOUND I-94 OVER**  
**103RD STREET**  
**COOK COUNTY**  
**STATION 188+83**  
**STRUCTURE NO. 016-2733**

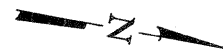
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4216 North Hermitage  
Chicago, IL 60613

SHEET NO. 10 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W,ETC. & 1315)RS-4	COOK	167	118
S.N. 016-2733			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN



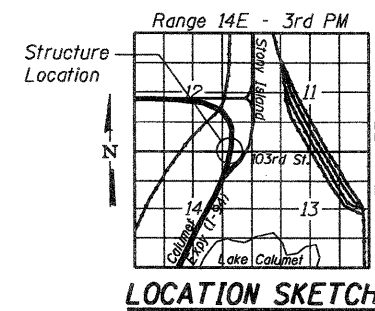
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Concrete Sealer	Sq. Ft.	8320

Concrete Sealer to be placed on deck surface, top and front face of parapets.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

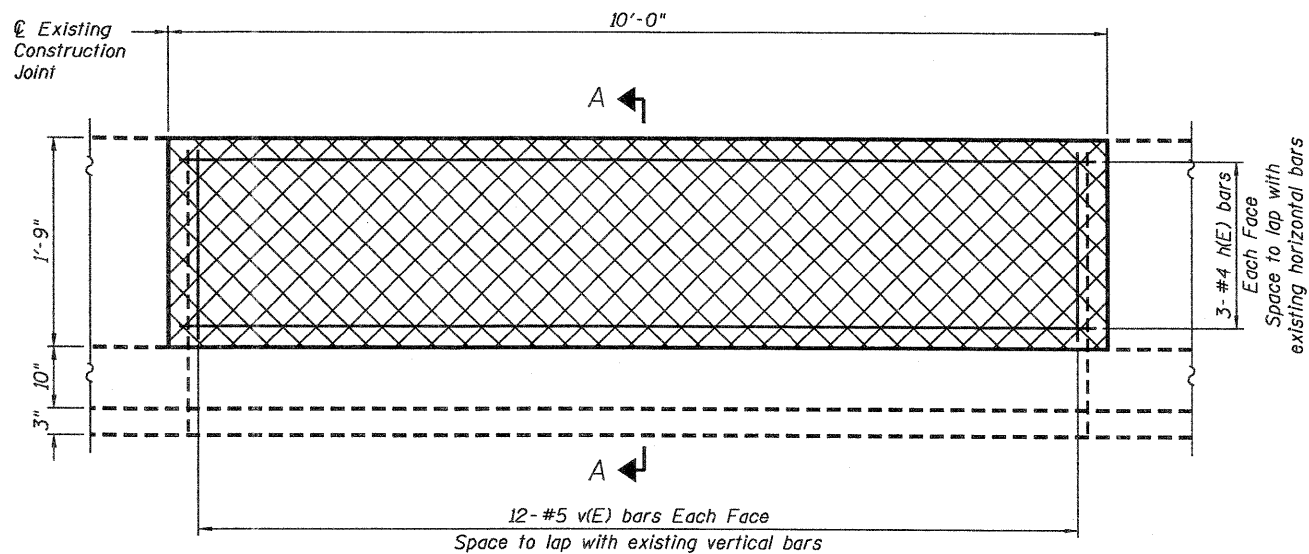


**GENERAL PLAN**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**WESTBOUND I-94 OVER**  
**103RD STREET**  
**COOK COUNTY**  
**STATION 188+83**  
**STRUCTURE NO. 016-2734**

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SHEET NO. 11 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4	COOK	167	119
S.N. 016-2734			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

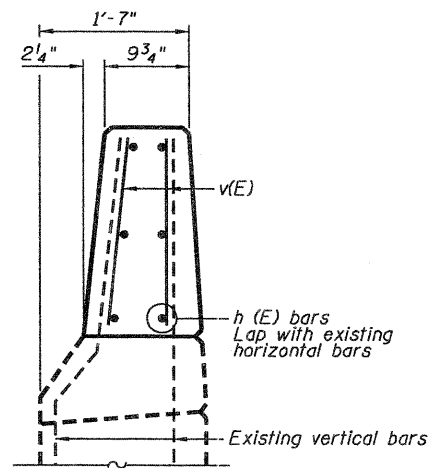
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BARRIER REPAIR**  
**SN 016-0153**

Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

Concrete Removal



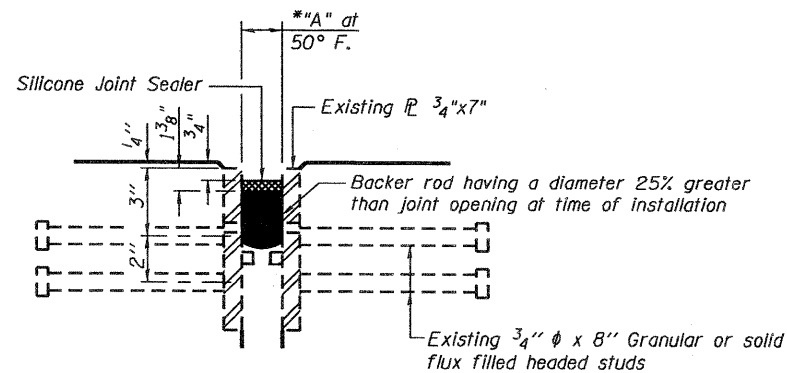
**SECTION A-A**

**BILL OF MATERIAL - BRIDGE 016-0153**

Bar	No.	Size	Length	Shape
h(E)	6	#4	9'-8"	—
v(E)	24	#5	1'-5"	—
Item		Unit	Quantity	
Concrete Removal		Cu. Yd.	0.6	
Concrete Superstructures		Cu. Yd.	0.6	
Reinforcement Bars (Epoxy Coated)		Pound	70	

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.



**SILICONE JOINT SEALER DETAIL**  
**AT EXISTING PREFORMED JOINT SEAL**

\*See Table A

**TABLE A**

Structure Number	Location	"A"
016-0158	Joint 1	2 3/4"
016-0158	Joint 2	2 3/4"
016-0158	Joint 3	2 3/4"
016-0158	Pier 4	2 3/4"
016-0159	Pier 4	2 3/4"
016-0160	N. Abutment	2 3/4"
016-0161	N. Abutment	2 3/4"
016-0161	S. Abutment	1 3/4"

**Note:**

The contract unit price for "feet" for Silicone Joint Sealer of the size specified shall include removal of the existing silicone joint sealer and backing rod or the removal of the existing preformed joint seal and 1/2"x1/2" steel bars as necessary. The existing steel plates and anchor bolts shall be reused.

**BARRIER WALL AND**  
**JOINT REPAIR DETAILS**  
**BISHOP FORD EXPRESSWAY (I-94)**  
**COOK COUNTY**  
**STATION 118+00 TO 485+91**  
**VARIOUS BRIDGES**

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

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SHEET NO. 12 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4	COOK	167	120
S.N. VARIES			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

Joint Size	"C" at 50°F	"D" at 50°F
2"	2"	1½" Min.
2½"	2½"	1¾" Min.
4"	3"	2½" Min.

### INSTALLATION NOTES

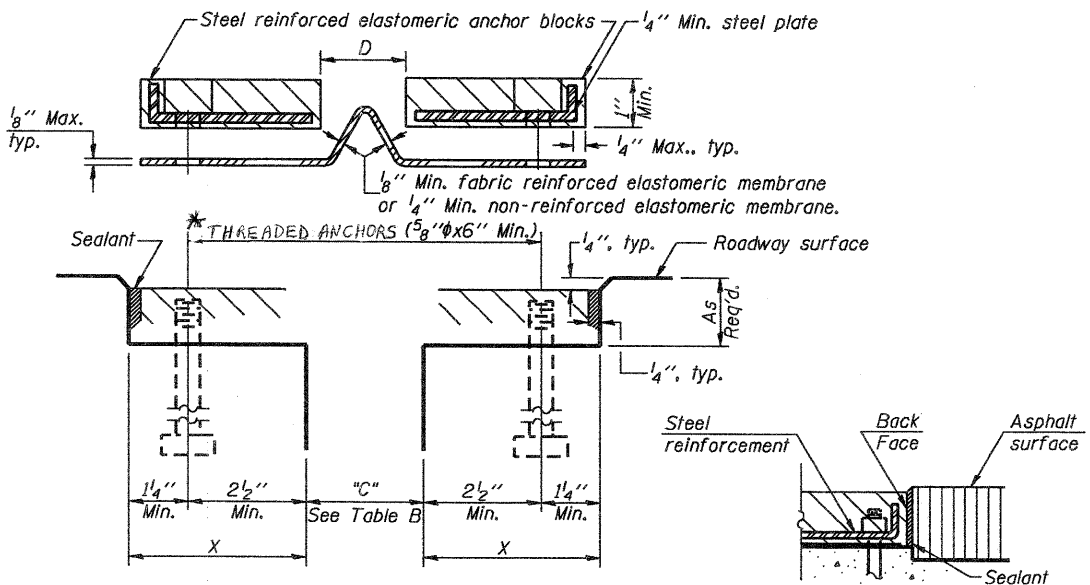
- Install continuous seal in roadway, parapet, curb, and sidewalk.
- Install anchor blocks as indicated.

Note A:  
Maximum spacing of anchor bolts shall be 12" centers.

### SKREW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of 1½" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



CROSS SECTION

ANCHOR BLOCK WITH ASPHALT SURFACE

TABLE B

Structure Number	Location	"C"
016-0150	Pier 3	3"
016-0153	S. Abutment	2"
016-0153	N. Abutment	2"
016-0157	S. Abutment	2"
016-0160	Pier 2	3"

### GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

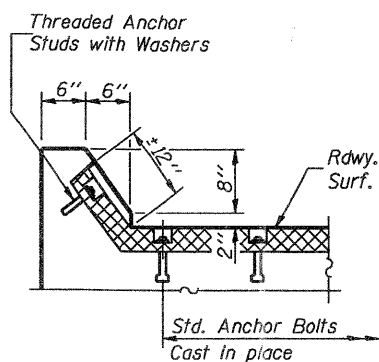
Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.

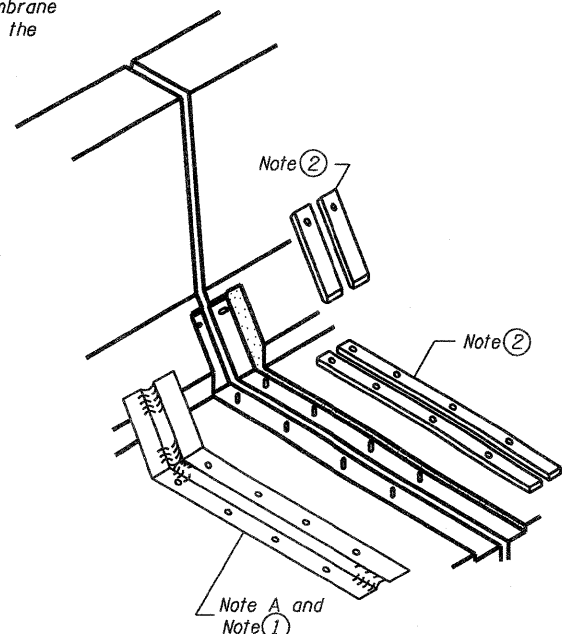
The contract unit price "Feet" for Neoprene Expansion Joint (Dam) shall include removal of the existing anchor blocks and elastomeric membrane. The existing anchor studs shall be reused.

\* New threaded anchors to be epoxy grouted in accordance with Art. 584 of the Standard Specifications, spaced between existing anchors.

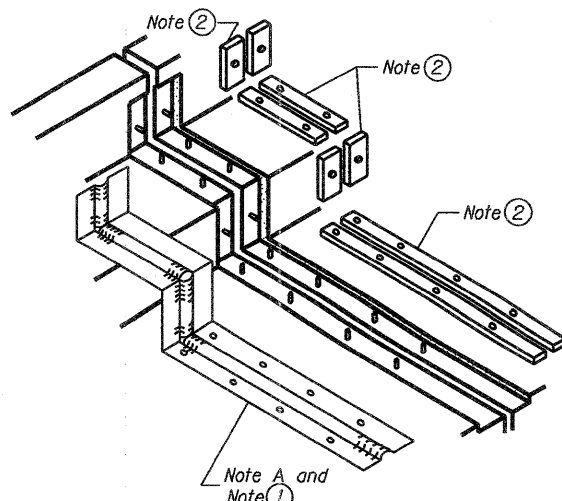
Existing anchors to be cut flush with top of concrete. Cost included with Neoprene Expansion Joint (Dam).



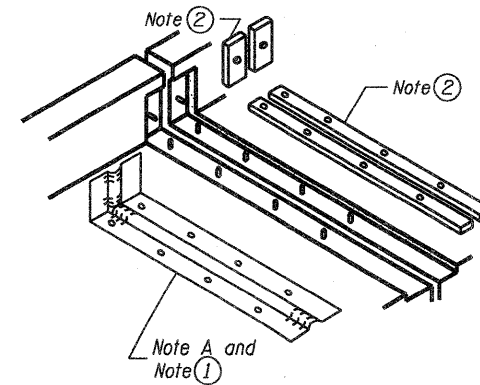
AT CURB



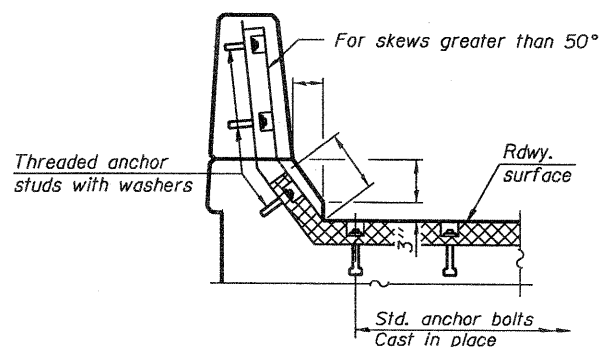
AT PARAPET



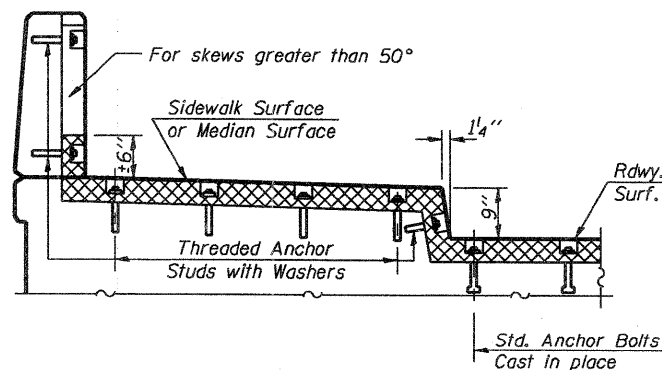
AT SIDEWALK OR MEDIAN



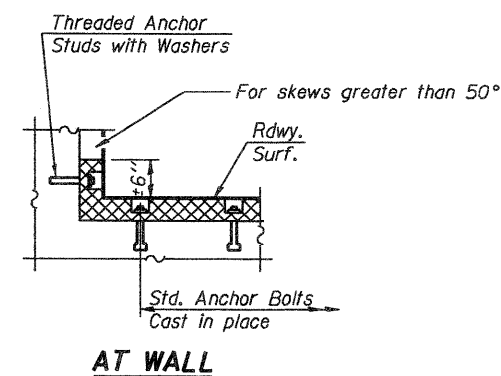
AT WALL



AT PARAPET



AT SIDEWALK OR MEDIAN  
TYPICAL END TREATMENTS



AT WALL

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

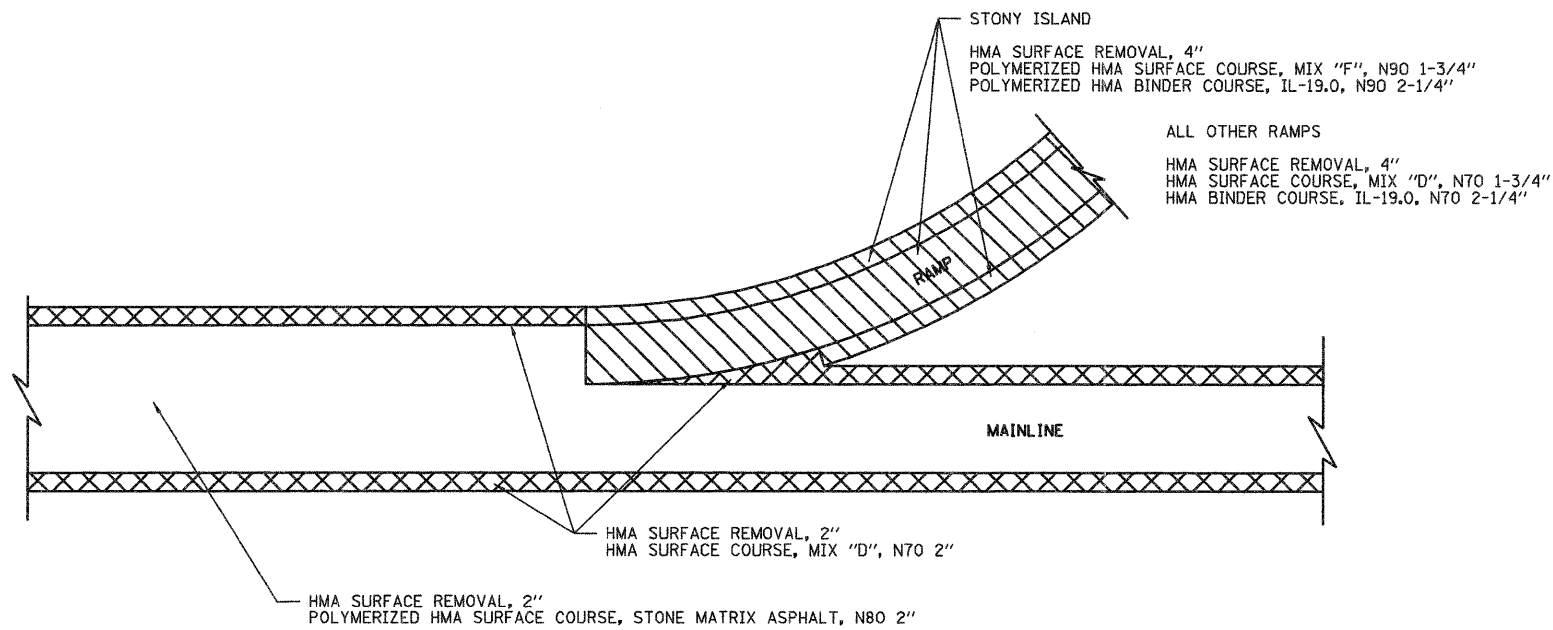
EJ-CS

10-22-04

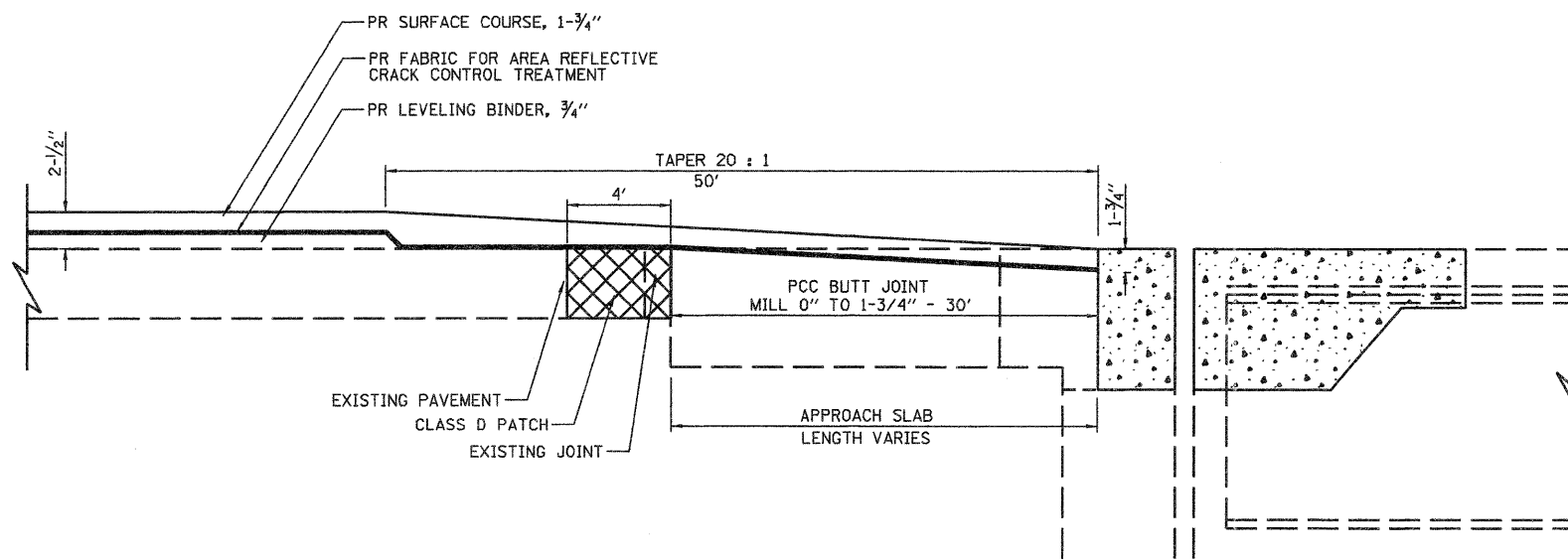
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Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

SHEET NO. 13 OF 13 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	(0312-708W, ETC. & 1315)RS-4		COOK	167
S.N. VARIES			CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

CONTINUOUS SEAL TYPE  
NEOPRENE EXPANSION JOINT  
BISHOP FORD EXPRESSWAY (I-94)  
COOK COUNTY  
STATION 118+00 TO 485+91  
VARIOUS BRIDGES



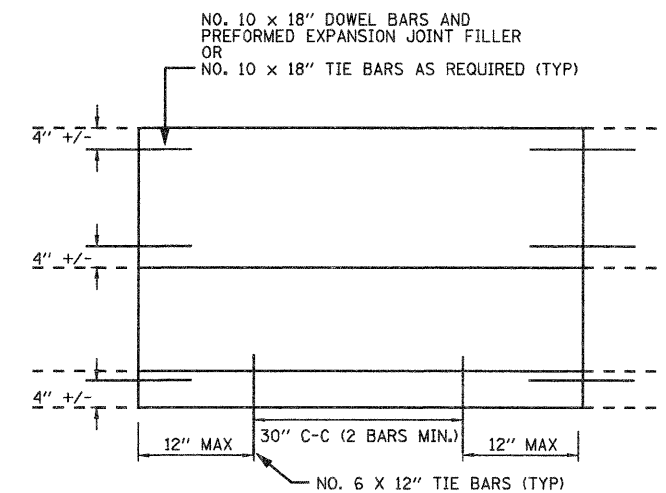
**RAMP - GORE RESURFACING DETAIL**



**RESURFACING TRANSITION - ROADWAY TO BRIDGE JOINT DETAIL**

**LOCATIONS:**

- STONY ISLAND RAMP A OVER I-94
- STONY ISLAND RAMP A AND RAMP B OVER WOODLAWN AVE AND RAILROAD
- STONY ISLAND RAMP A AND RAMP B OVER DORCHESTER AVE
- STONY ISLAND RAMP B OVER RAMP A, RAMP C AND STONY ISLAND AVE

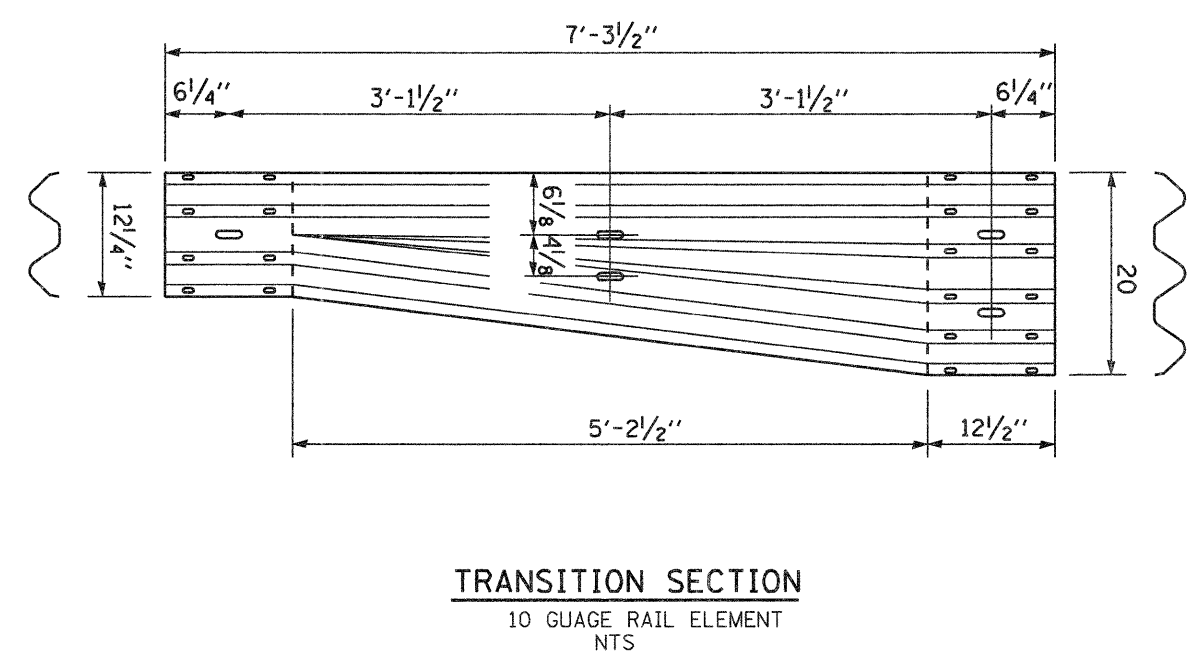
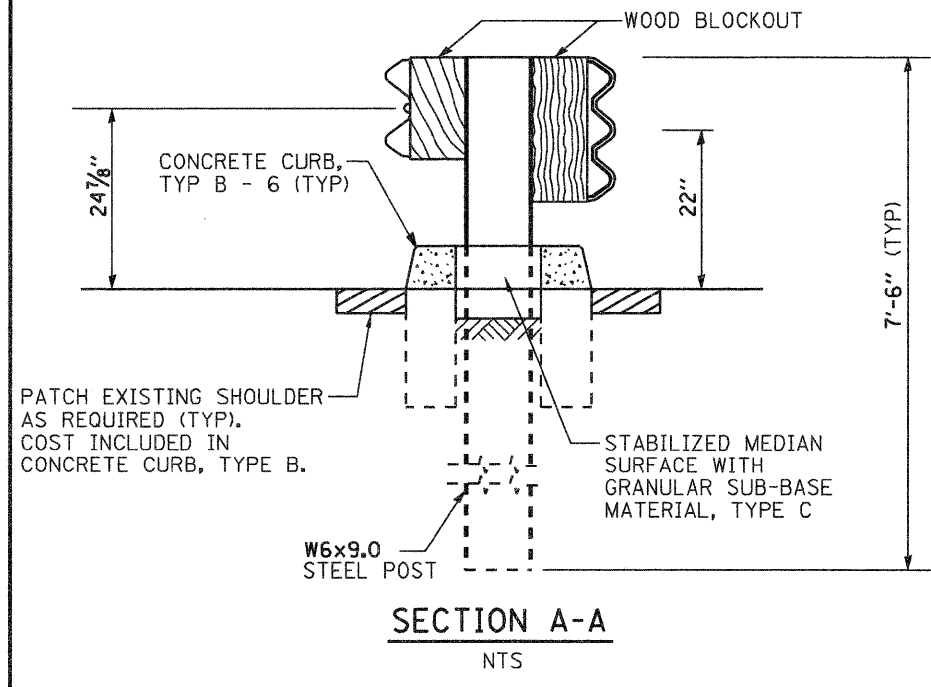
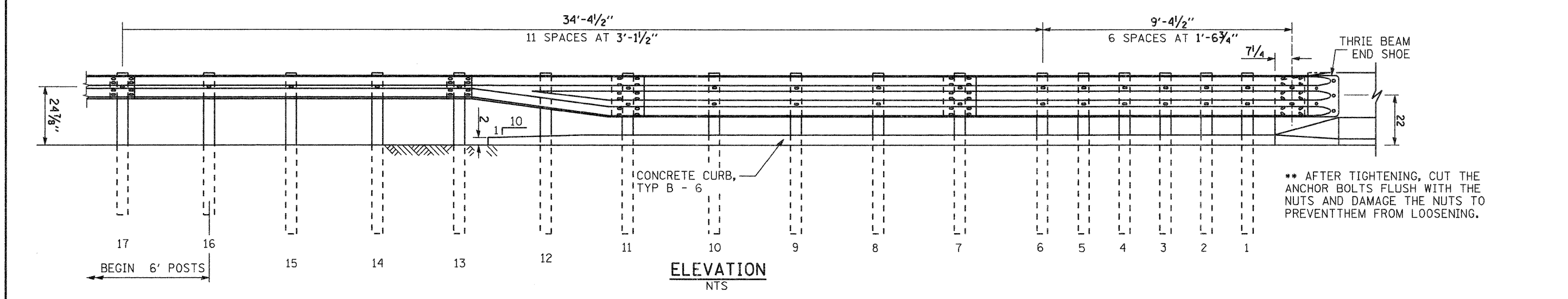
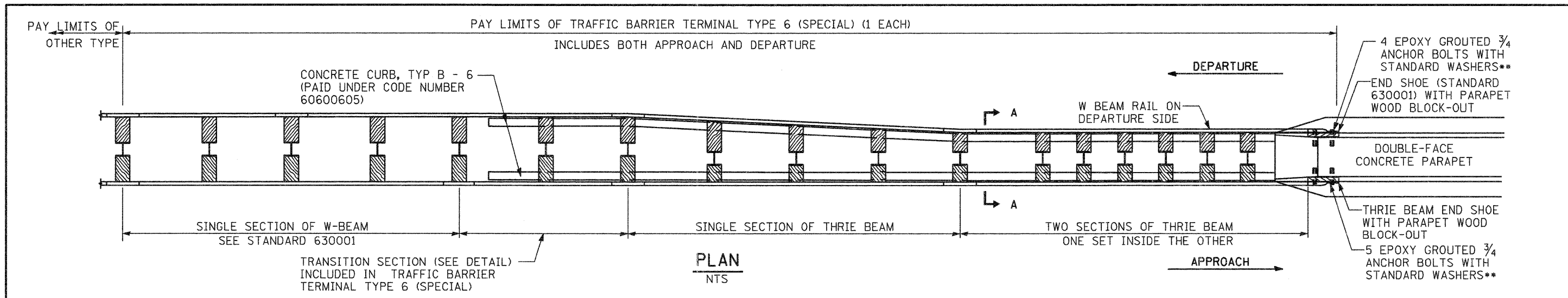


**NOTES:**

- ALL CONCRETE BARRIER WALL REMOVAL AND REPLACEMENT SHALL BE COMPLETED ACCORDING TO APPLICABLE STATE STANDARD 637001 OR 637006, SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS DETAILED HEREIN. THE LENGTH AND TYPE OF REPAIR AT EACH LOCATION IS SHOWN IN THE PLANS AND AS APPROVED BY ENGINEER.
- DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. PREFORMED EXPANSION JOINT FILLER AND DOWEL BARS WILL BE USED AT LOCATIONS WHERE THE WORK IS AT AN EXISTING EXPANSION JOINT.
- IF A REINFORCEMENT CAGE IS ENCOUNTERED, THE DAMAGED PORTIONS OF THE CAGE WILL BE REMOVED AND REPLACED WITH BARS OF THE SAME SIZE AND SPACING. THE CONTRACTOR WILL PROTECT EXISTING LIGHTING CONDUIT THAT MAY BE EMBEDDED IN THE BARRIER WALL.
- THE CONCRETE BARRIER WALL REMOVAL AND REPLACEMENT WILL BE MEASURED FOR PAYMENT IN FEET IN PLACE, ALONG THE CENTERLINE OF THE BARRIER.
- THIS WORK WILL BE PAID AT THE CONTRACT UNIT PRICE PER FOOT FOR "CONCRETE BARRIER WALL REMOVAL AND REPLACEMENT (FULL DEPTH)", WHICH INCLUDES ALL WORK DESCRIBED IN THE PLANS AND SPECIFICATIONS.

**CONCRETE BARRIER WALL REMOVAL AND REPLACEMENT**

FILE NAME = D168008-122-BARRIER.DETAIL.dgn	USER NAME = dwozniarski	DESIGNED - DRAWN - DMW, GDS	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94) MISCELLANEOUS DETAILS</b>		F.A.I. RTE. 94	SECTION 10312-708W, ETC. & 1315RS-4	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 122	
PLOT SCALE = N/A	CHECKED -	REVISOR -	REVISOR -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 60C08				
PLOT DATE = 2/7/2009	DATE - 2/7/2009	REVISOR -	REVISOR -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



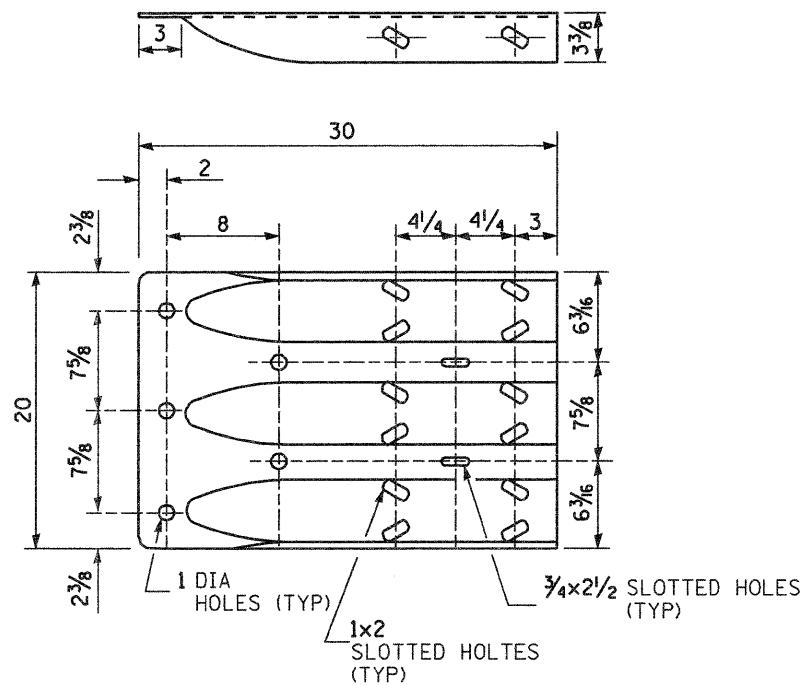
**GENERAL NOTES**

WORK SHALL BE PERFORMED PER SECTIONS 630 AND 631 OF THE STANDARD SPECIFICATIONS.

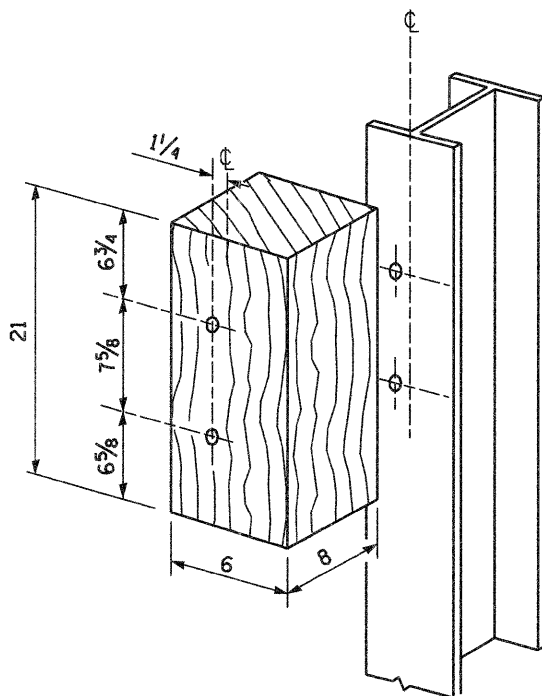
SEE STANDARD 630001 FOR DETAILS OF GUARDRAIL NOT SHOWN.

THRIE BEAM RAIL SHALL BE BOLTED TO BLOCKOUT AT ALL POSTS.

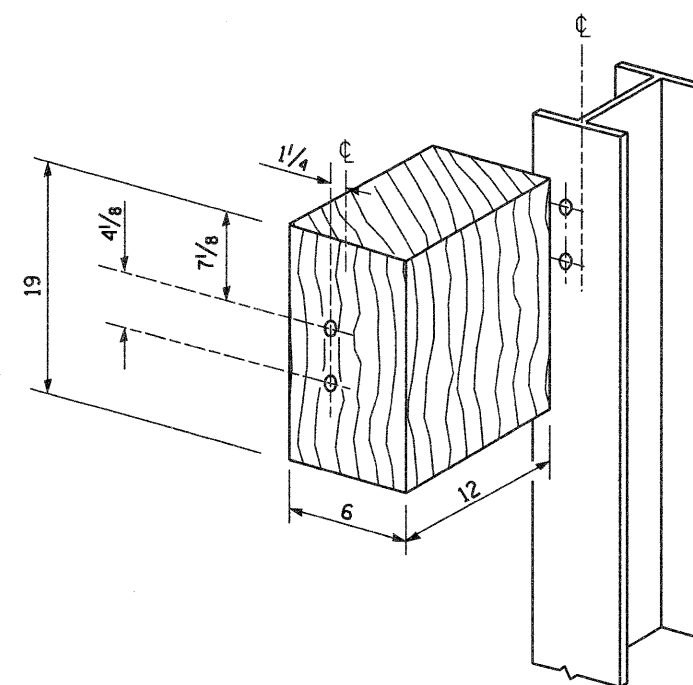
FILE NAME = D168089-122A-BARRIER_TRANSITION_DETAIL.dgn	USER NAME = dwoznarski	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BISHOP FORD EXPRESSWAY (I-94) TRAFFIC BARRIER TERMINAL TYPE 6 (SPECIAL)	F.A.I. RTE. 94	SECTION 10312-108W, ETC. & 131515-4	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 122A	CONTRACT NO. 60C08
PLOT SCALE = N/A				SCALE: N/A		SHEET NO. 1 OF 2 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
PLOT DATE = 2/7/2009				DATE - 2/7/2009							



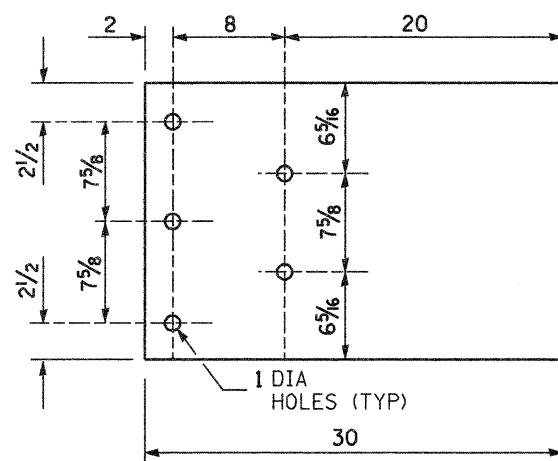
**THRIE BEAM END SHOE DETAIL**  
NTS



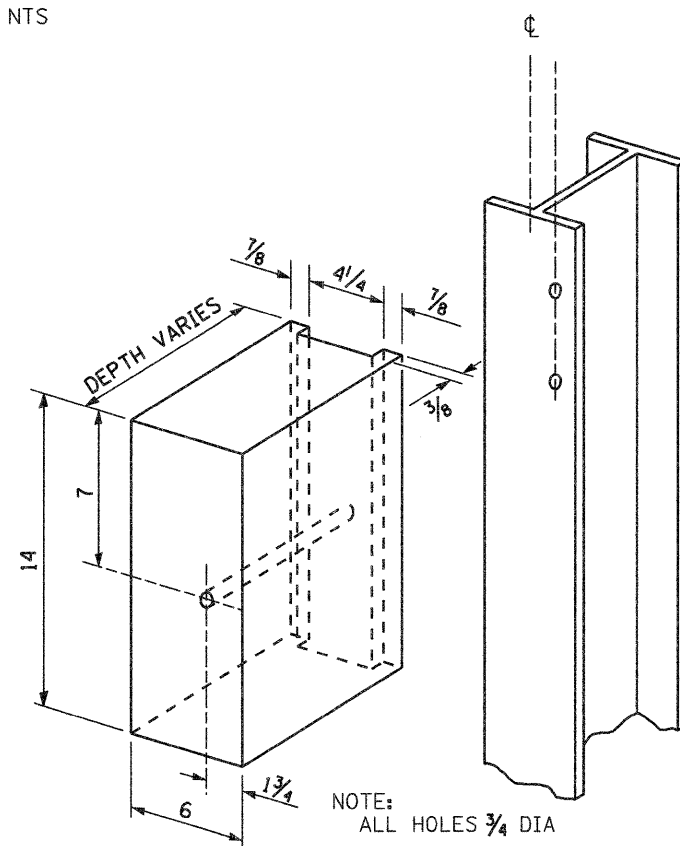
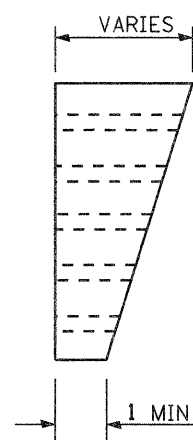
**APPROACH POSTS 1-10 WOOD BLOCKOUT DETAIL**  
NTS



**APPROACH POST 11-12 WOOD BLOCKOUT DETAIL**  
SEE STANDARD 630001 FOR POST 13-17 BLOCKOUTS  
NTS



**PARAPET WOOD BLOCK-OUT DETAIL**  
NTS



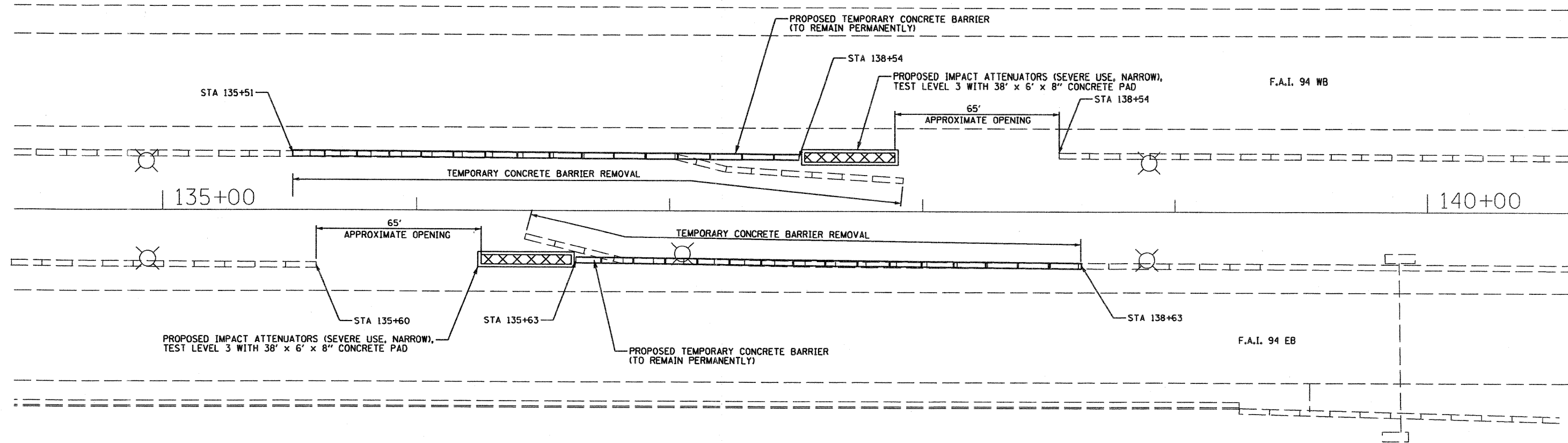
**DEPARTURE WOOD BLOCKOUT DETAILS**

POST 1-7 DEPTH = 8"  
POST 8-10 DEPTH VARIES  
SEE STANDARD 630001 FOR POST 11-17 BLOCKOUTS  
NTS

NOTE:  
NO PLASTIC BLOCKOUTS PERMITTED.

FILE NAME = D:\60C08-122B -BARRIER_BLOCKOUT_DETAIL.dgn	USER NAME = dwozmlarek1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94) TRAFFIC BARRIER TERMINAL TYPE 6 (SPECIAL)</b>		F.A.I. RTE. 94	SECTION 10312-708W, ETC. & 1315IRS-4	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 122B	
PLOT SCALE = N/A	PLOT DATE = 2/7/2009	DRAWN - DMW, GDS	REVISED -		SCALE: N/A	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 60C08				
		CHECKED -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		DATE - 2/7/2009	REVISED -									

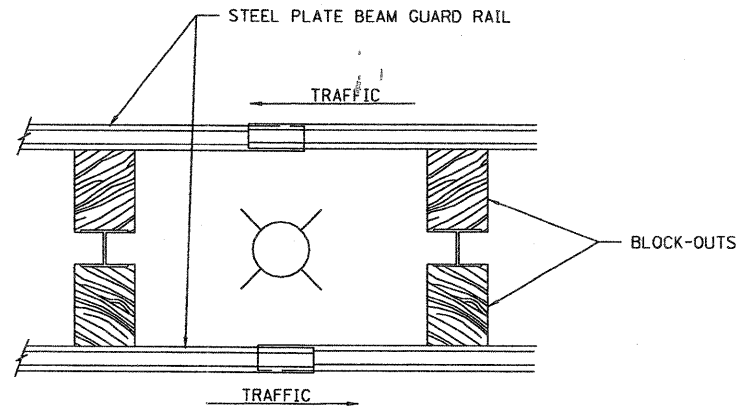




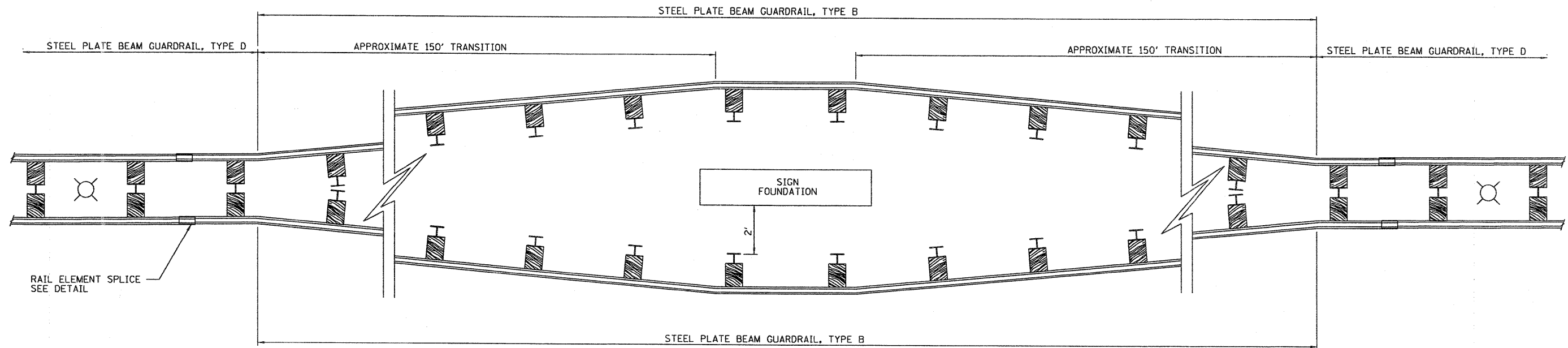
NOTES:

1. ALL TEMPORARY CONCRETE BARRIER SHALL BE REMOVED INCLUDING BARRIER STOCKPILED IN THE MEDIAN.
2. REMOVAL OF THE EXISTING SHOULDER AND SUBGRADE PREPARATION SHALL BE INCLUDED IN THE COST OF THE CONCRETE PAD. USE CLASS S1 MIX. WORK TO BE PAID AS CONCRETE PAD.

FILE NAME = 0168008-123-EMERGENCY CROSS-OVER.DETA	USER NAME = dwozniecki	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94) EMERGENCY CROSS-OVER DETAIL</b>	F.A.I. RTE. 94	SECTION (0312-708W, ETC. & 1315RS-4)	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 123
	PLOT SCALE = 48.00' / IN.	DRAWN - DMW	REVISED -							
	PLOT DATE = 2/6/2009	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 4 OF 4 SHEETS	STA. 135+00	TO STA. 140+00	CONTRACT NO. 60C08	
		DATE - 2/6/2009	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



**STEEL PLATE BEAM GUARD RAIL, TYPE D  
WITH LIGHT POLE**  
GUARD RAIL CENTERED ON LIGHT POLE



**GUARD RAIL TRANSITION AT SIGN FOUNDATION**

COST OF SPLICING DISSIMILAR RAIL TYPES SHALL BE INCLUDED IN THE VARIOUS GUARD RAIL INSTALLED.

FOR DETAILS NOT SHOWN SEE STANDARD 630001-08.

FILE NAME =  
D160C08-124-BARRIER\_DETAIL.dgn

USER NAME = dwoznarski

DESIGNED -

REVISED -

DRAWN - DMW, GDS

REVISED -

PLDT SCALE = N/A

CHECKED -

REVISED -

PLOT DATE = 2/6/2009

DATE - 2/6/2009

REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BISHOP FORD EXPRESSWAY (I-94)  
MISCELLANEOUS DETAILS**

SCALE: N/A

SHEET NO. 1 OF 1 SHEETS

STA.

TO STA.

F.A.I.  
RTE.

SECTION

COUNTY

TOTAL SHEETS

SHEET NO.

94

(0312-708W, ETC. & 1315RS-4)

COOK

167

124

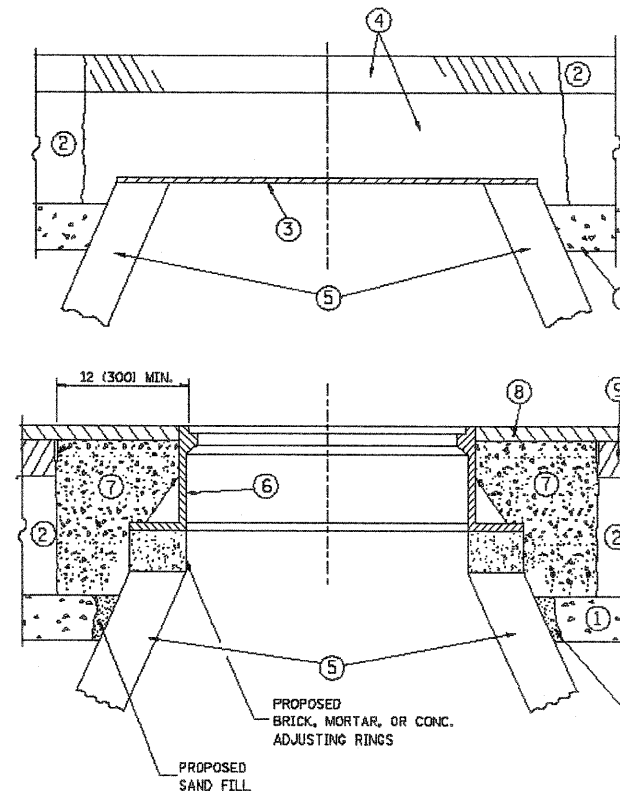
CONTRACT NO. 60C08

FED. ROAD DIST. NO.

ILLINOIS FED. AID PROJECT

F.A. I	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	125
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

• (0312-708W, ETC. & 1315IRS-4



**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 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 S1 CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

**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 S1 CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 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:** THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

REVISIONS	
NAME	DATE
R. SHAH	10/26/94
R. SHAH	01/30/99
R. SHAH	03/10/99
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

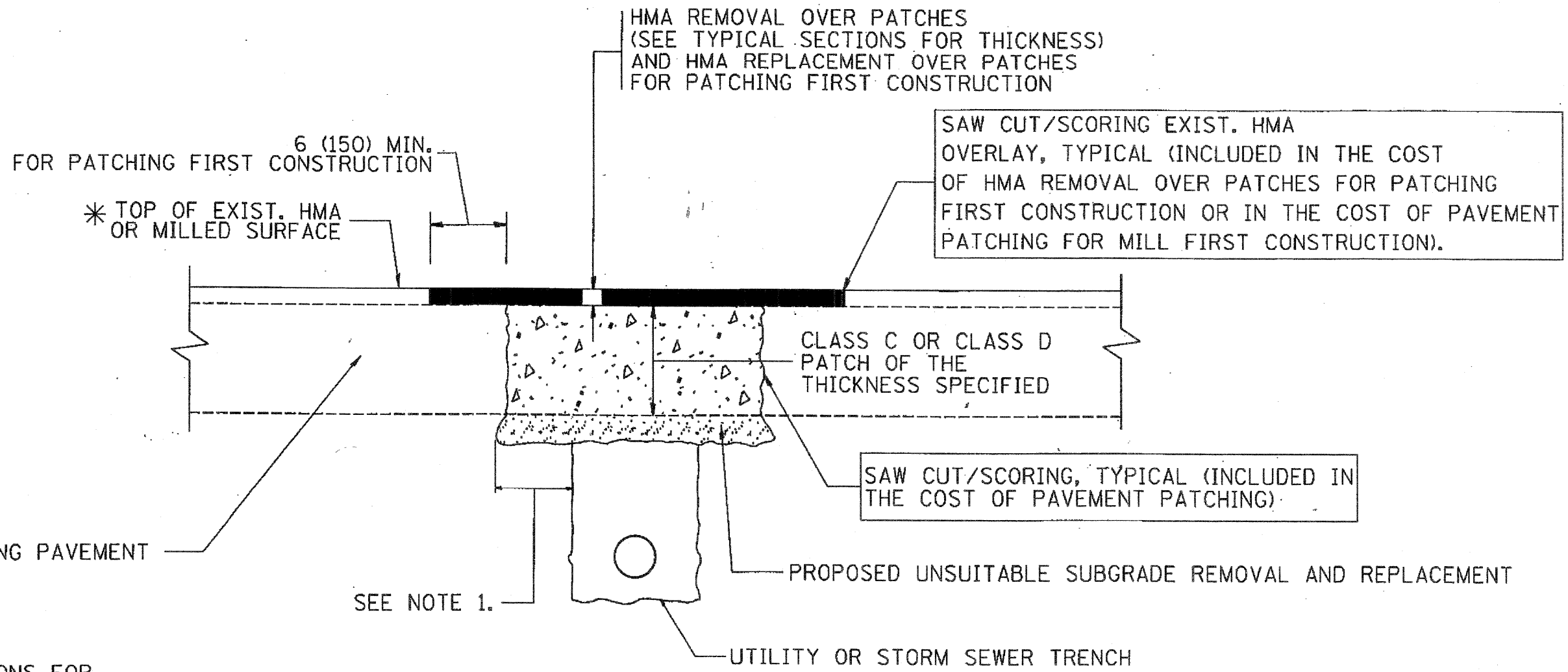
**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: VERT. NONE  
HORIZ.

DRAWN BY

CHECKED BY

BD600-03 (BD-8)



\* 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.

DISTRICT DETAILS.dgn

FILE NAME =	cd\projects\dists\d22x34\bd22.dgn
USER NAME =	bouardl
PLOT SCALE =	100.000 / IN.
PLOT DATE =	10/27/2000

DESIGNED -	R. SHAH
DRAWN -	
CHECKED -	
DATE -	10-25-94

REVISED -	A. ABBAS 04-27-98
REVISED -	R. BORO 01-01-07
REVISED -	R. BORO 09-04-07
REVISED -	K. ENG 10-27-08

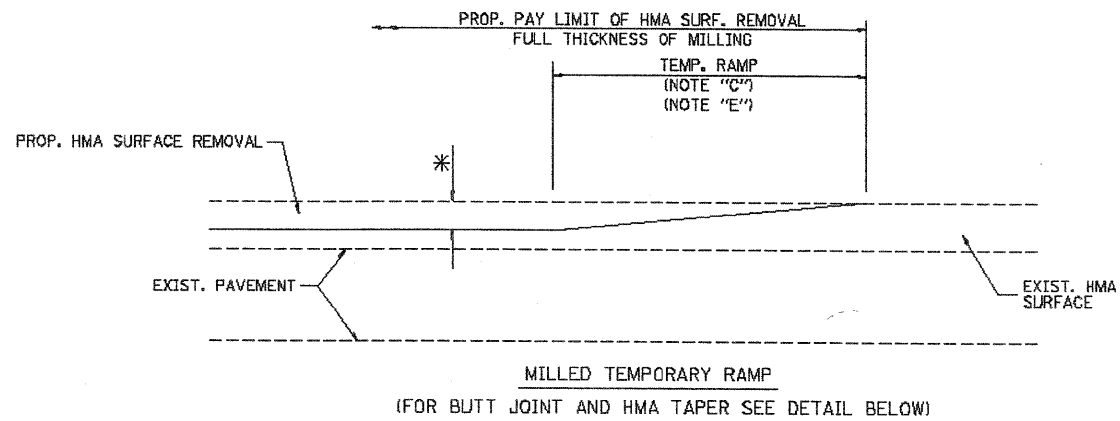
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

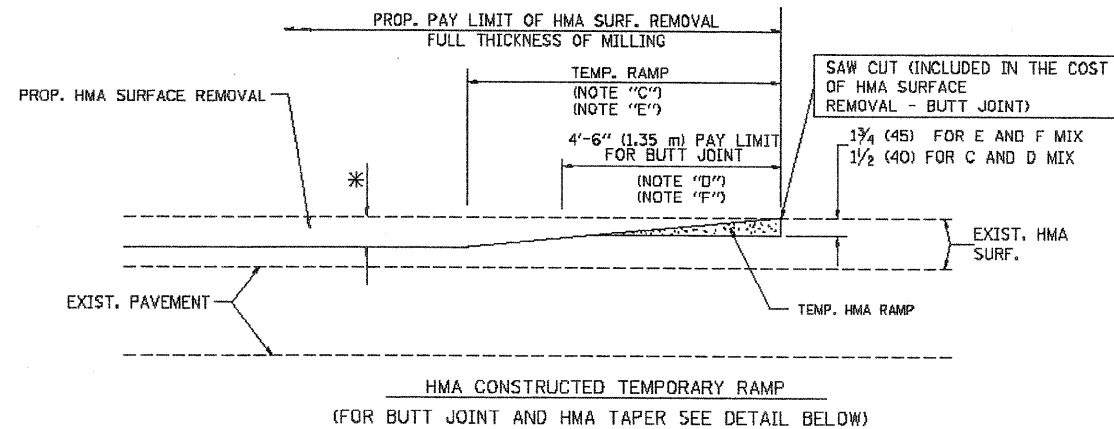
F.A.I. RTE. 94	SECTION COOK	COUNTY	TOTAL SHEETS 167	SHEET NO. 126
BD400-04 (BD-22)		CONTRACT NO. 60C08		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

F.A. 1	SECTION	COUNTY	TOTAL SHEET	SHEET
94		COOK	167	127
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

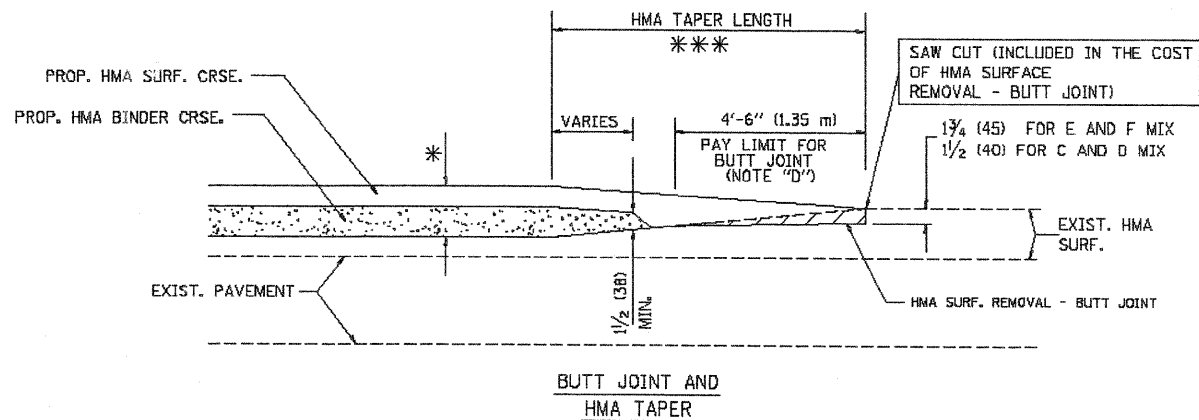
• 0312-708W, ETC. & 1315RS-4



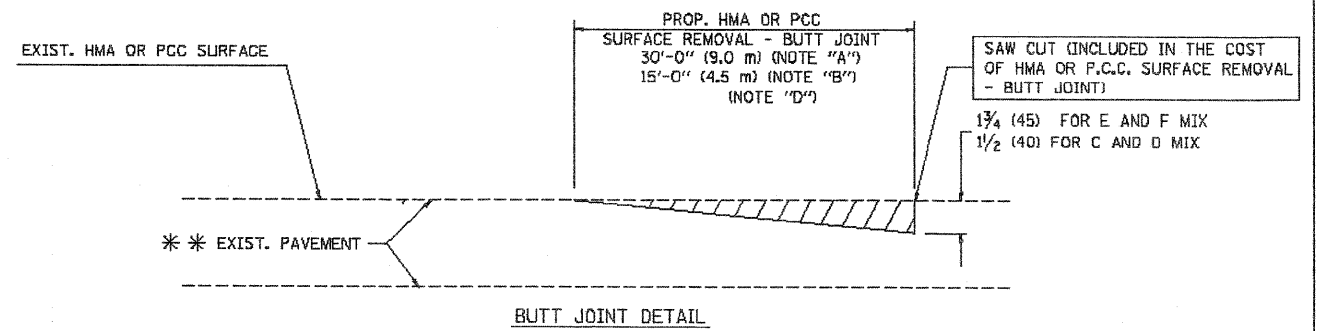
OPTION 1



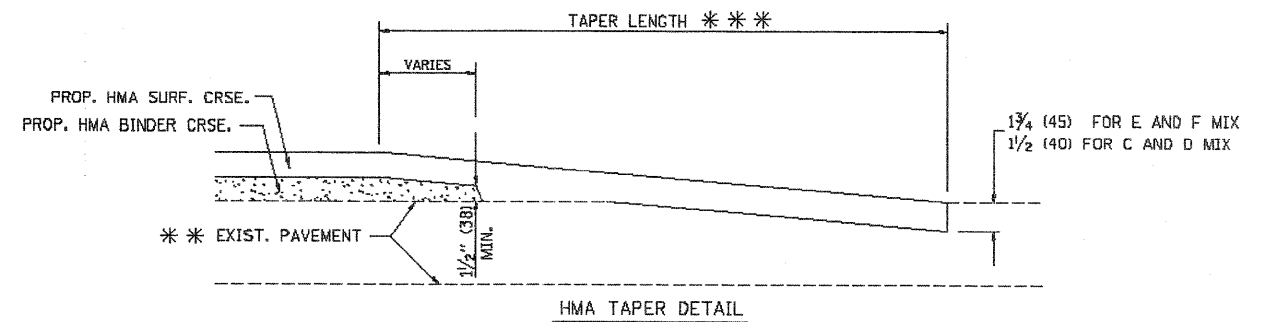
OPTION 2  
TYPICAL TEMPORARY RAMP



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" (300 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")

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

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".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND  
HMA TAPER  
DETAILS

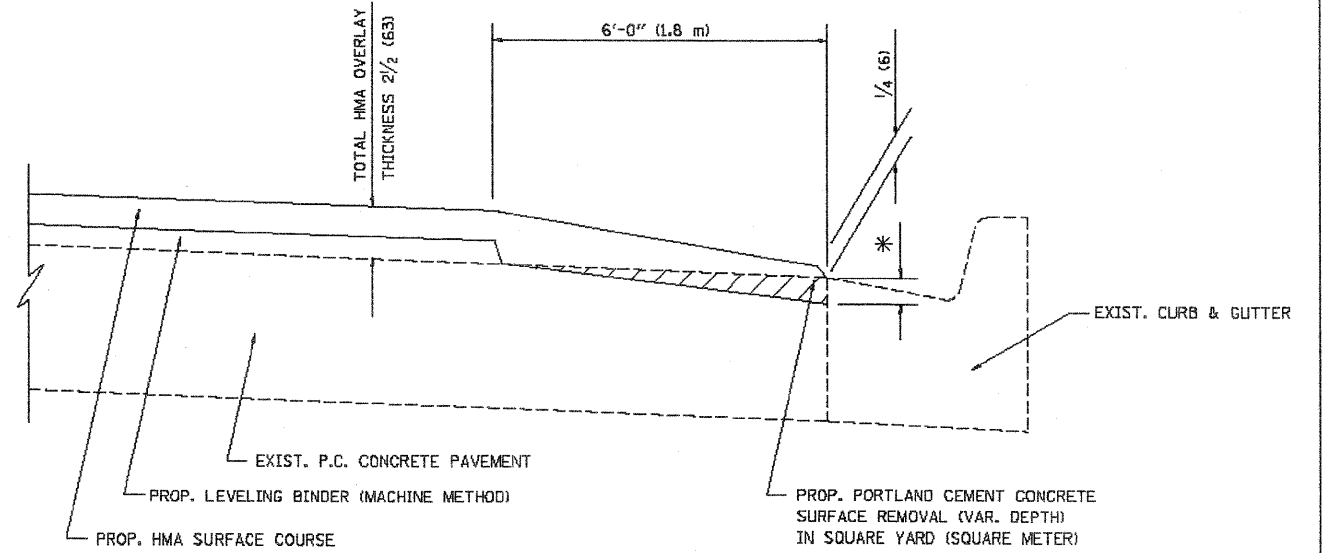
SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

BD400-05 (VI-BD32)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	128
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

• (0312-708W, ETC. & 1315RS-4



HMA TAPER AT  
EDGE OF P.C.C. PAVEMENT

HMA SURFACE	LEVELING BINDER		* MILLING AT GUTTER FLAG
	MIX	THICKNESS	
C OR D	1/2 (38)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	1/2 (38)

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

REVISIONS	
NAME	DATE
R. SHAH	09/10/94
R. SHAH	10/25/94
A. ABBAS	05/05/99
E. GOMEZ	12/21/00
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

HMA TAPER AT  
EDGE OF P.C.C. PAVEMENT

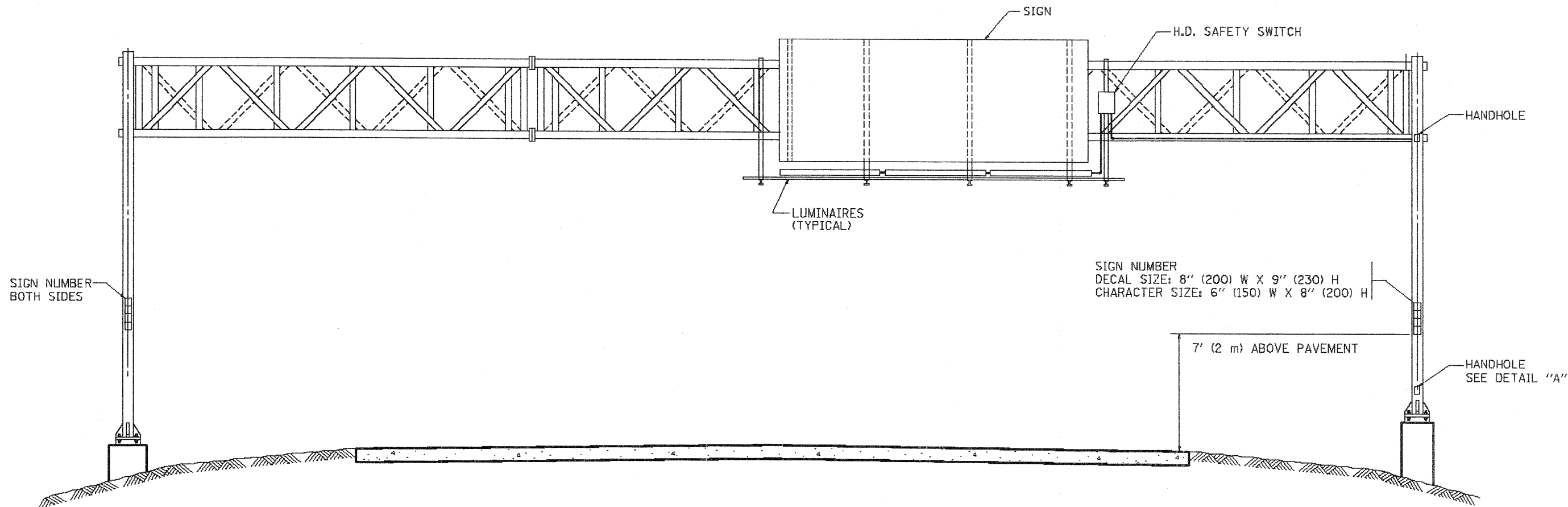
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HORIZ.

DRAWN BY Jls  
CHECKED BY A. ABBAS

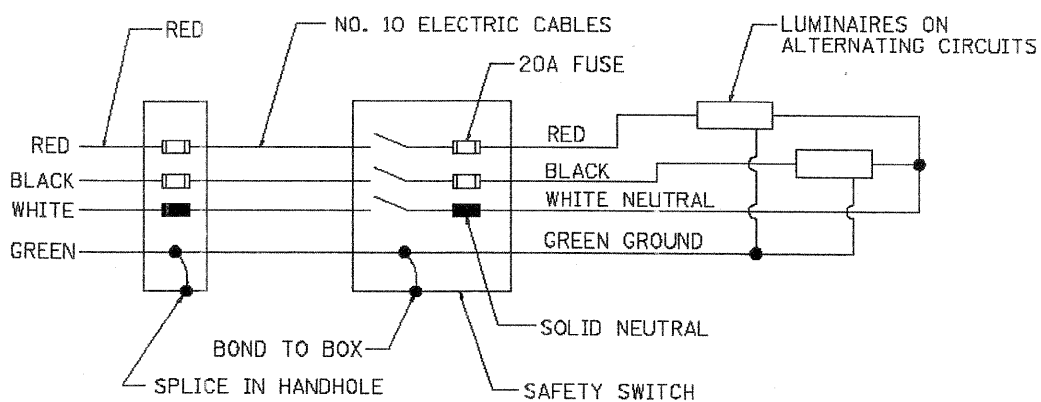
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D:\60C08-128-DISTRICT DETAIL.S.dgn

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	129
STA.		TO STA.		
FED. RDWD DIST. NO.		ILLINOIS FED. AID PROJECT		

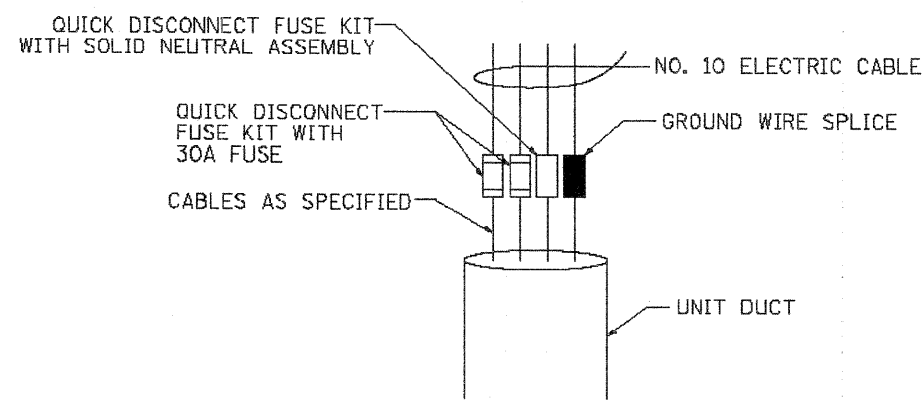
0312-708W, ETC. & 1315RS-4



SIGN NUMBER  
 DECAL SIZE: 8" (200) W X 9" (230) H  
 CHARACTER SIZE: 6" (150) W X 8" (200) H



WIRING DIAGRAM



DETAIL A

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED RIGID METALIC CONDUIT, PVC COATED (GRMC, PVC)
3. THE USE OF LIQUID TIGHT METAL CONDUIT (TYPE LFMC) SHALL BE LIMITED TO LOCATIONS WHERE MOVEMENT IS ANTICIPATED AND SHALL NOT EXCEED 5' (1.5 m) IN LENGTH
4. ALL WORK INDICATED SHALL BE INCLUDED IN THE PAY ITEM FOR ELECTRIC CONNECTION TO SIGN STRUCTURE
5. THE SAFETY SWITCH SHALL BE LOCATED ON THE SIDE OF THE SIGN STRUCTURE WHICH IS CLOSEST TO THE SHOULDER, OR EDGE OF PAVEMENT.

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
	08/19/04

ILLINOIS DEPARTMENT OF TRANSPORTATION

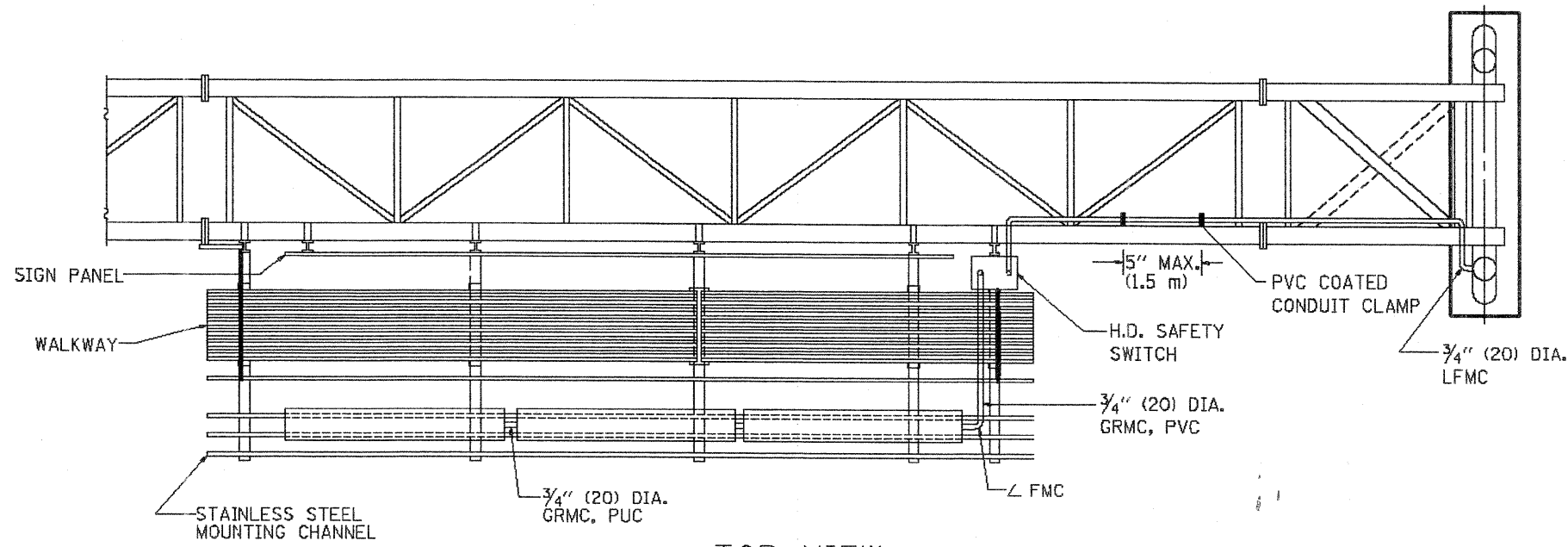
ELECTRIC CONNECTION  
 TO SIGN STRUCTURE  
 SPAN TYPE  
 1 OF 2

SCALE: VERT. NONE  
 HORIZ.

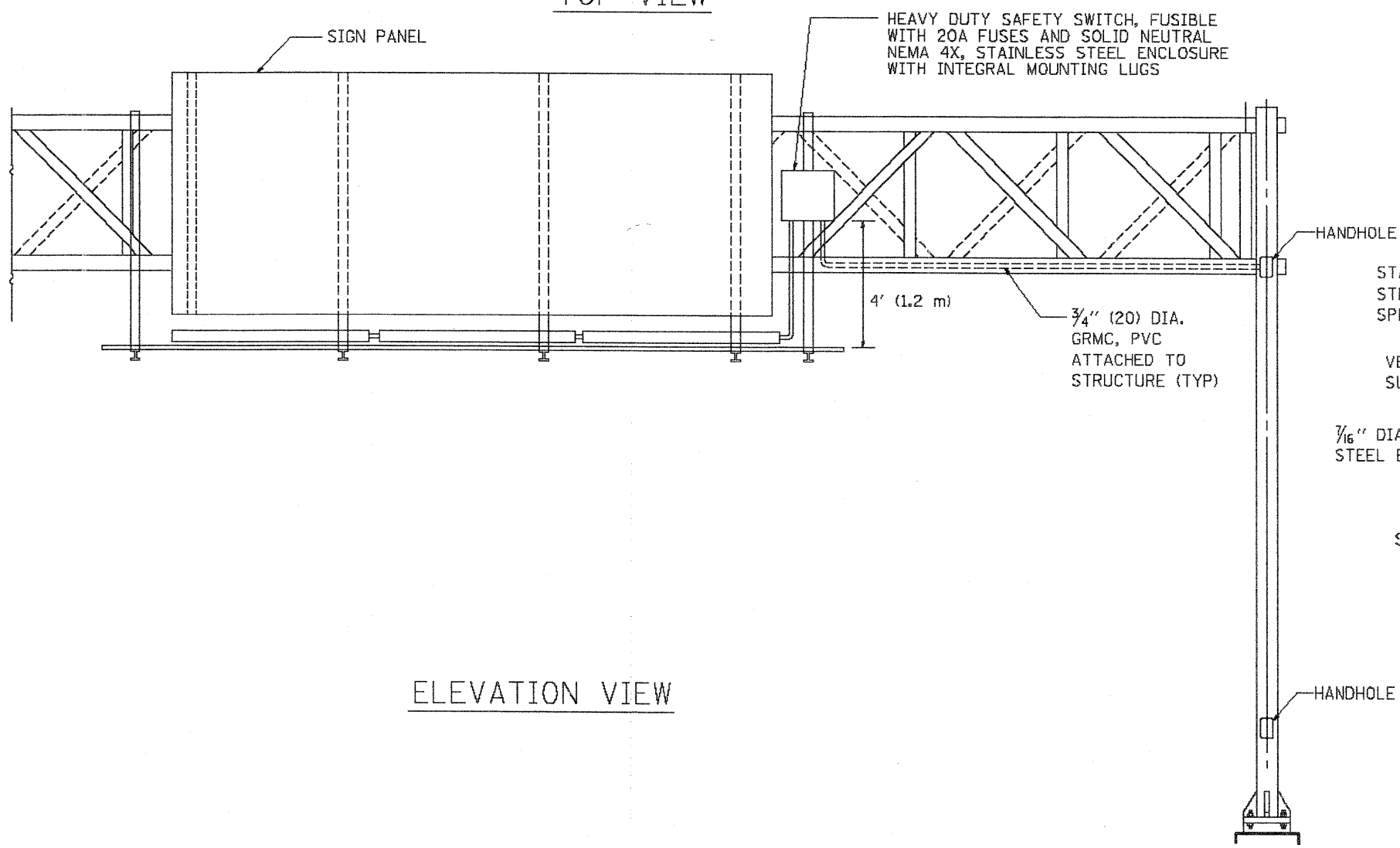
DRAWN BY  
 CHECKED BY  
 BE-603

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	130
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

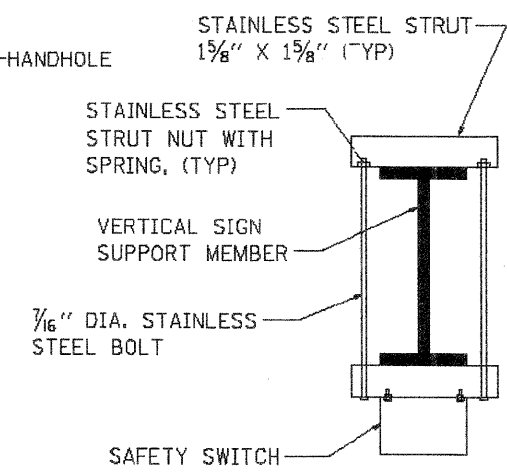
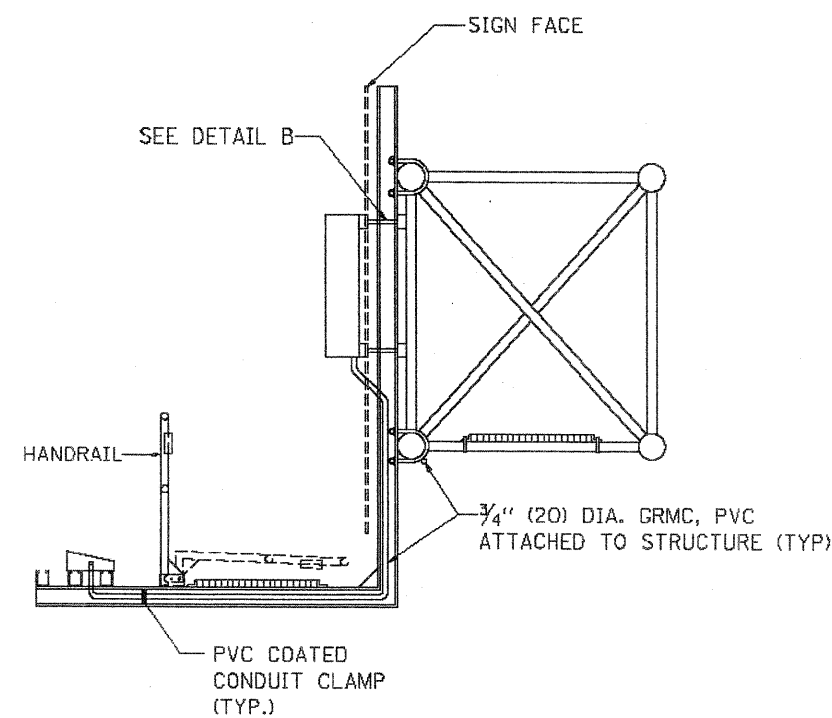
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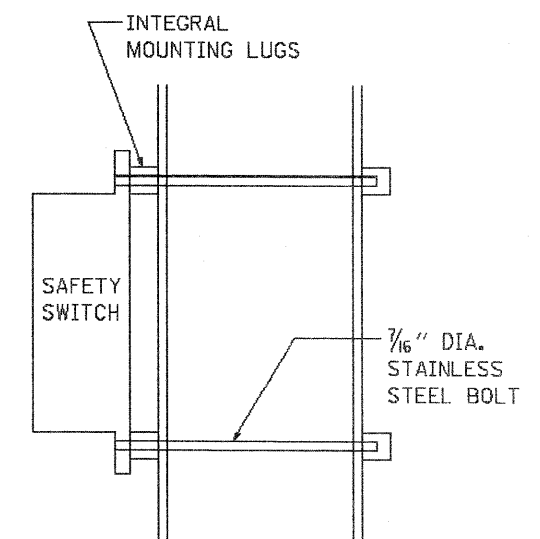
TOP VIEW



ELEVATION VIEW



TOP VIEW



SIDE VIEW

DETAIL B

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
	08/19/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE  
2 OF 2

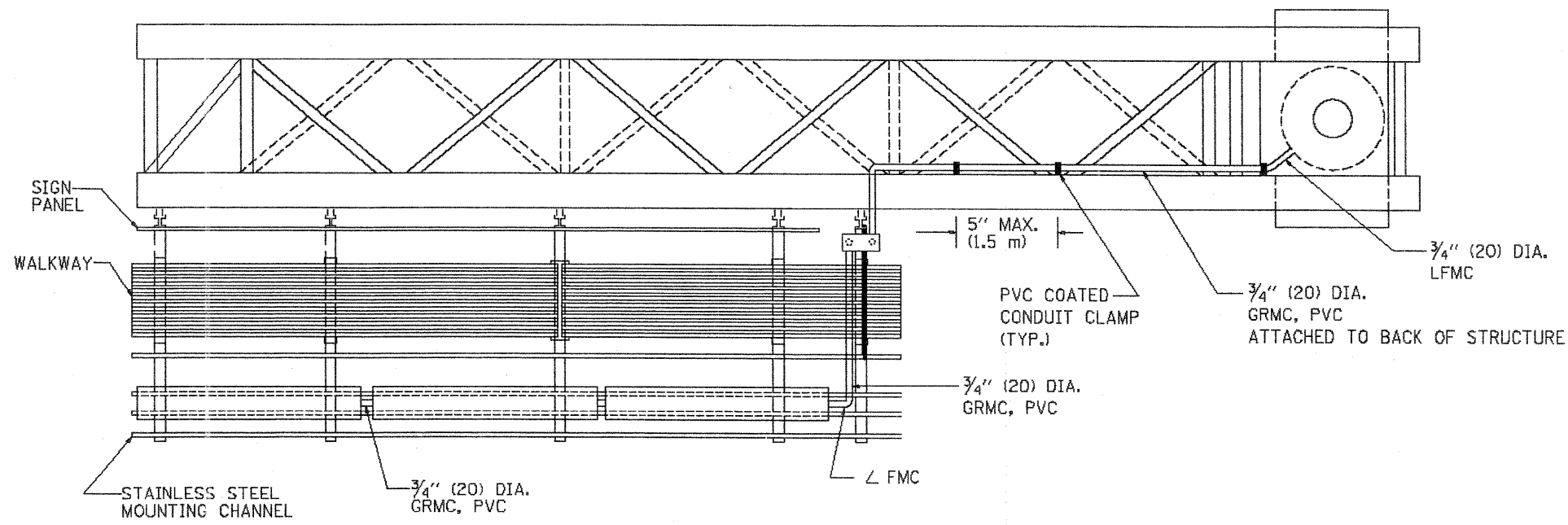
SCALE: VERT. NONE  
HORIZ. NONE  
DRAWN BY  
CHECKED BY  
BE-600

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 USER NAME = bawand  
 D:\60C08-130-DISTRICT DETAILS.dgn

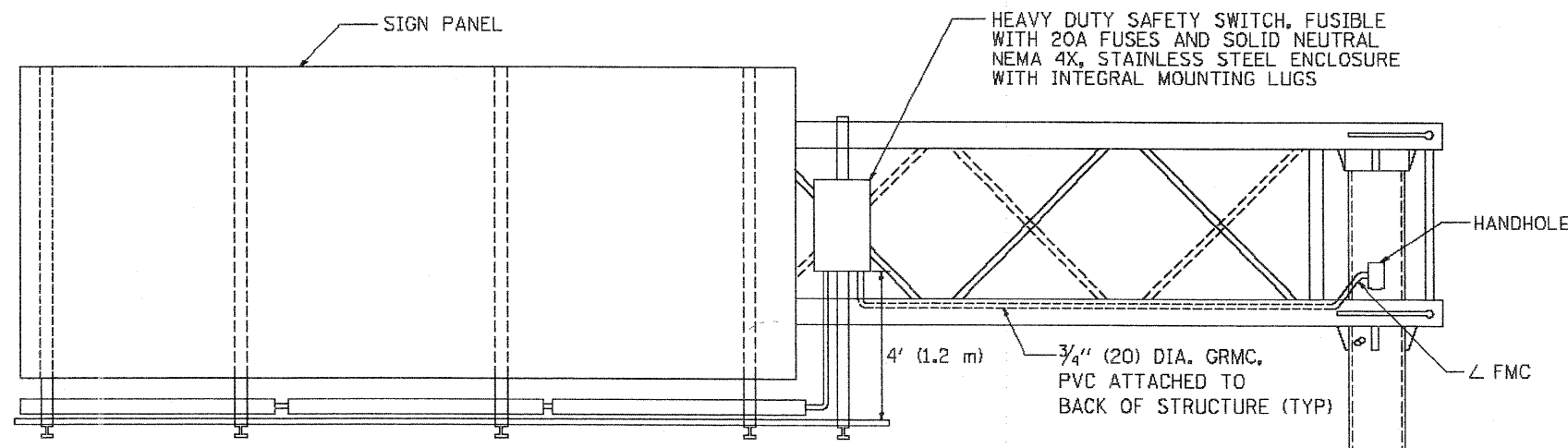
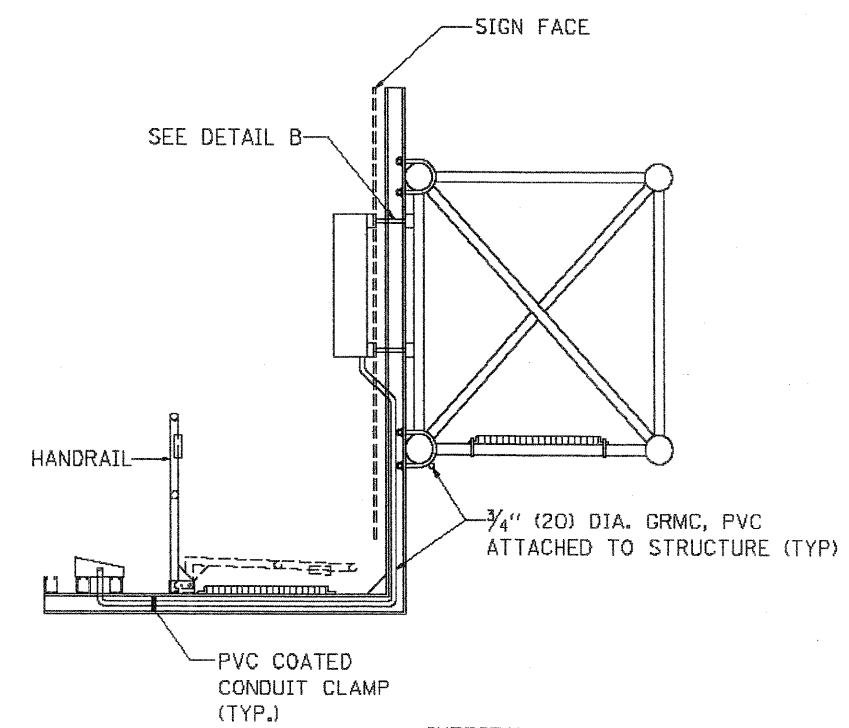




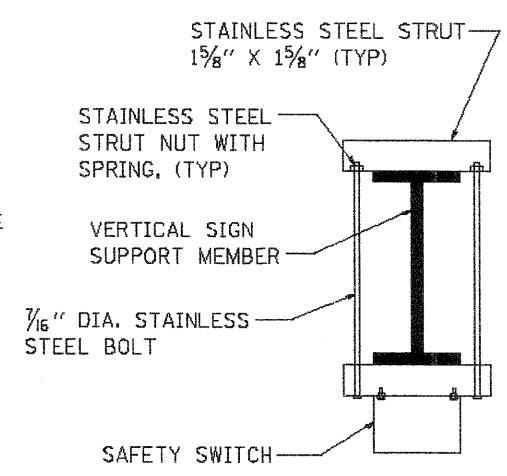
CONTRACT NO. 60C08				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	132
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
0312-708W, ETC. & 1315RS-4				



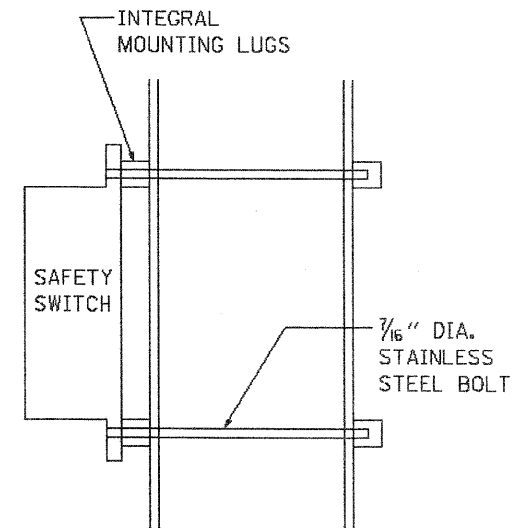
TOP VIEW



ELEVATION VIEW



TOP VIEW



SIDE VIEW

DETAIL B

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
	08/19/04

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ELECTRIC CONNECTION TO SIGN STRUCTURE CANTILEVER TYPE  
 2 OF 2

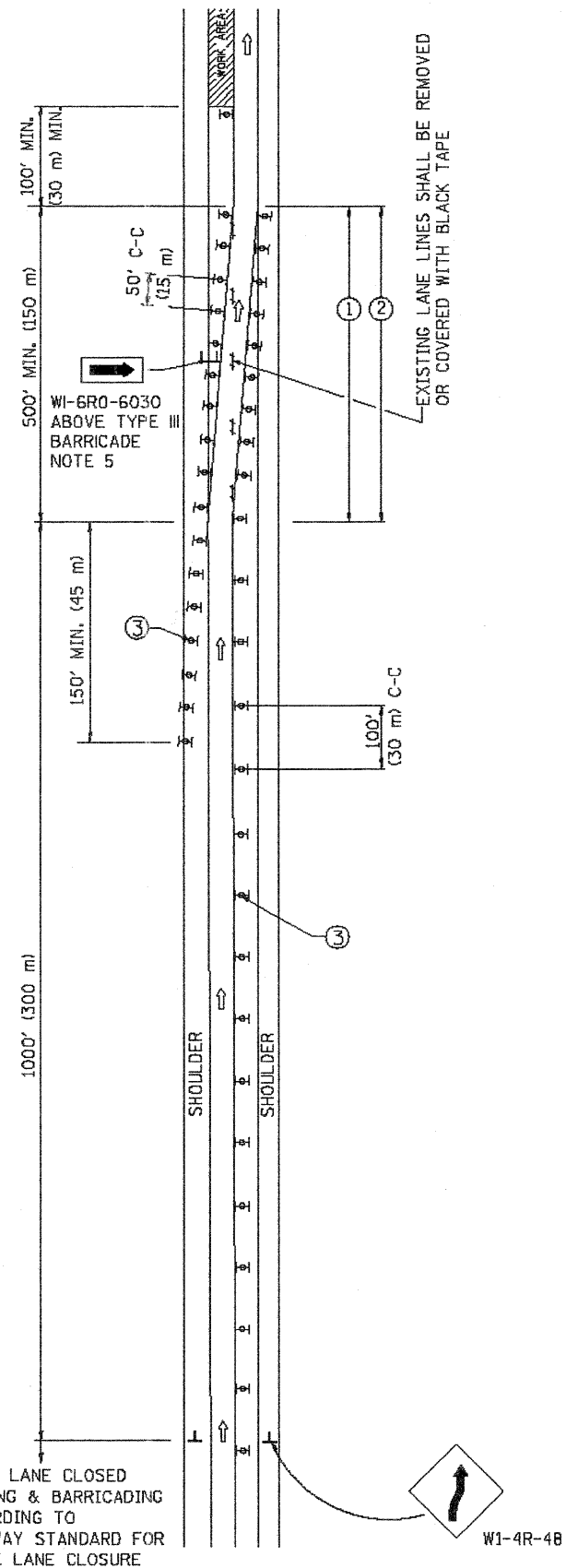
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 HORIZ.  
 DRAWN BY  
 CHECKED BY  
 BE-601

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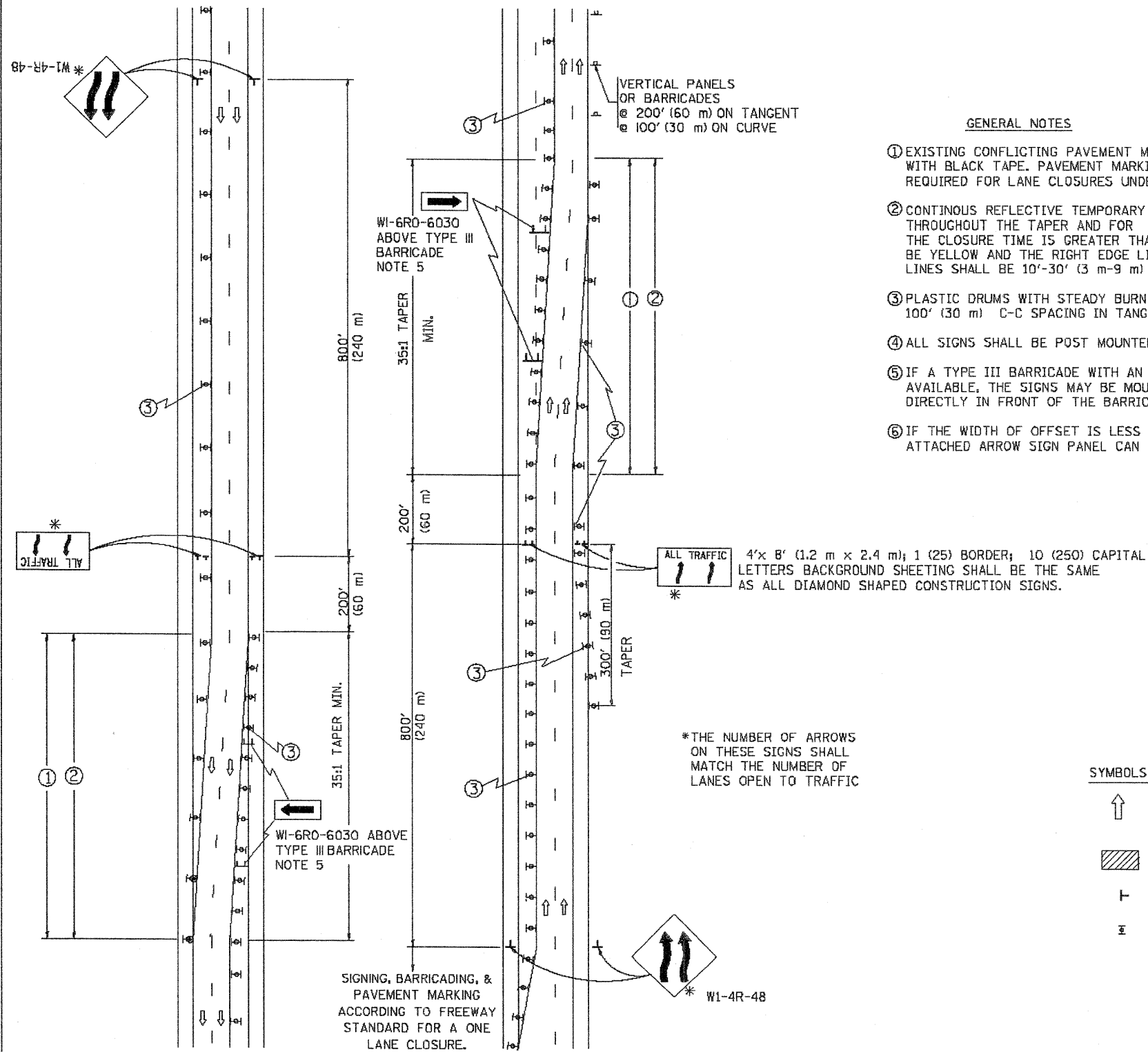
F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	133
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

• (0312-708W, ETC. & 1315RS-4

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS 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 WEAVE LANE LINES SHALL BE 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.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- 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.

### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL DETAILS  
FOR FREEWAY  
SINGLE & MULTI-LANE WEAVE

SCALE: NONE

DRAWN BY R.H.

CHECKED BY

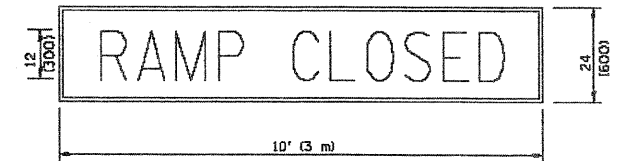
TC-9

PLUT DATE: 5/2/2007  
PLUT SCALE: 1/8"=1'-0"  
USER NAME: haward  
D:\60C08-133-DISTRICT DETAILS.dgn

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	134
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

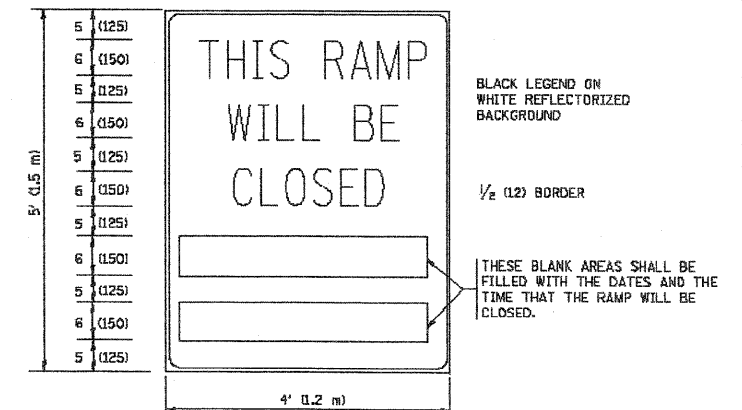
• (0312-708W, ETC. & 1315RS-4

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMP.

RAMP CLOSURE ADVANCE INFORMATION SIGN



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

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.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
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 TWENTY FOUR (24) HOURS IN LENGTH.

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

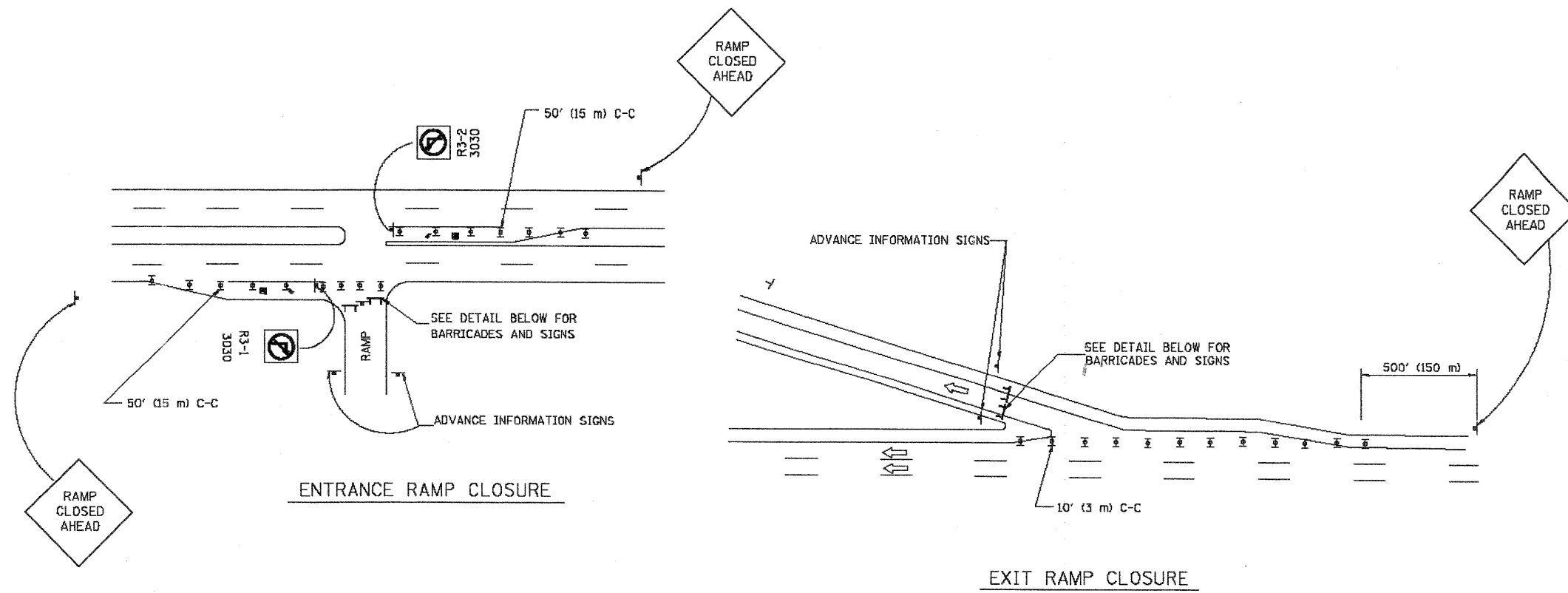
REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
JAF	2/06
SFB	1/07
Revise devices to meet NCHRP 350	4/03

SCALE: NONE

ILLINOIS DEPARTMENT OF TRANSPORTATION

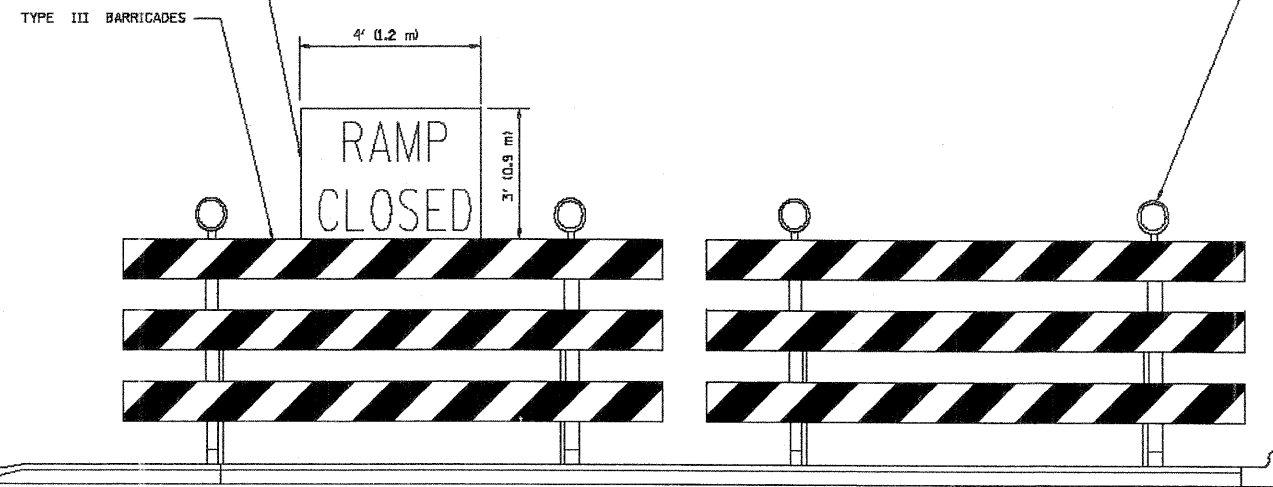
**FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS**

DRAWN BY  
CHECKED BY  
TC-8



THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 8 (200) CAPS. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.

FLASHER UNIT AMBER BOTH SIDES OF EACH TYPE III BARRICADE



DETAIL FOR REQUIRED BARRICADES & SIGNS

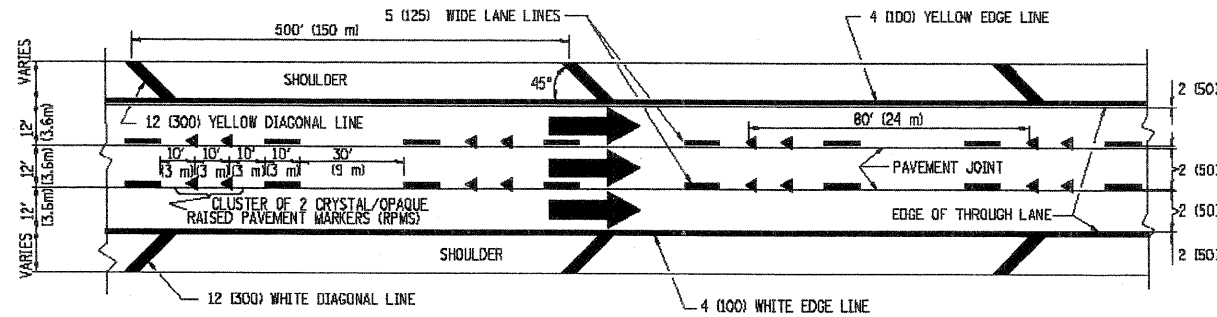
**SYMBOLS**

- ☒ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ☒ TYPE III BARRICADE WITH FLASHING LIGHT

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 USER NAME = bmsdgn  
 D:\60C08-134-DISTRICT DETAILS.dgn

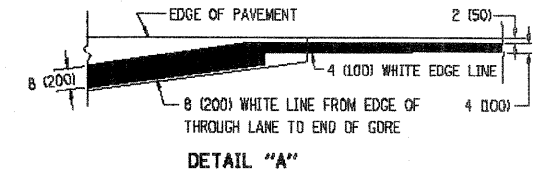
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	135
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		• (0312-708W, ETC. & 1315RS-4		

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

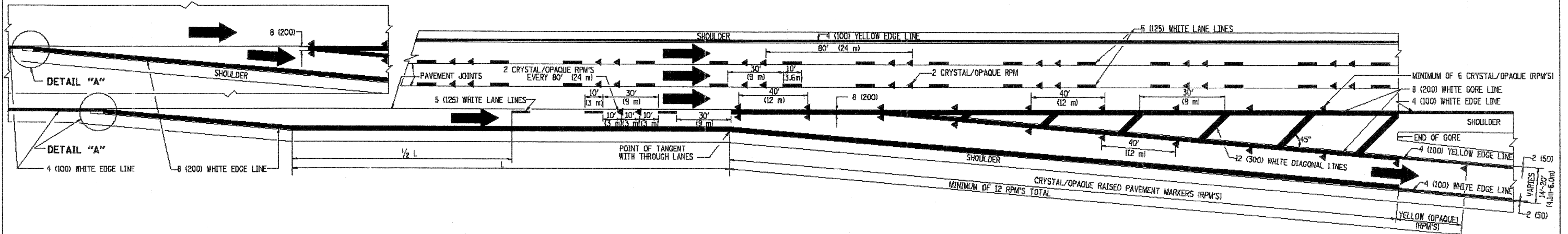


NOTES:

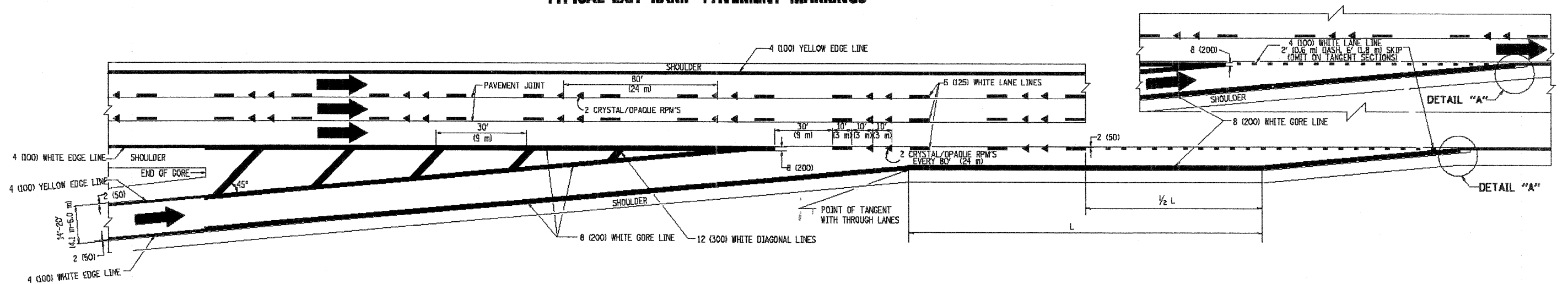
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON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



TYPICAL EDGE LINES & LANE LINES



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AH	3/96
DWS	7/96
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

SCALE: NONE

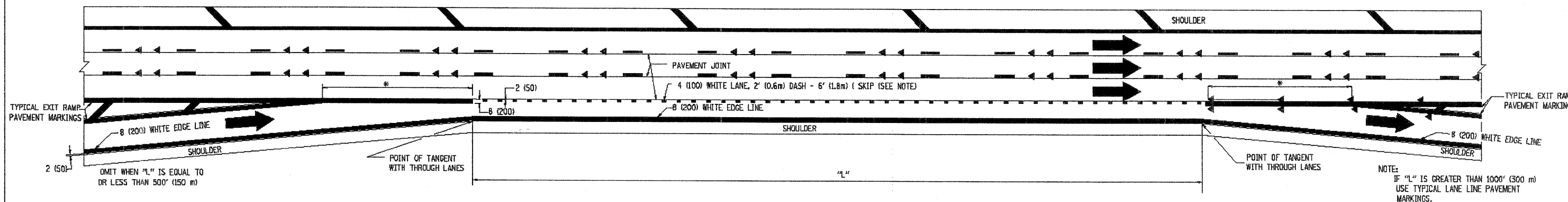
DRAWN BY C.A.D.D.

CHECKED BY

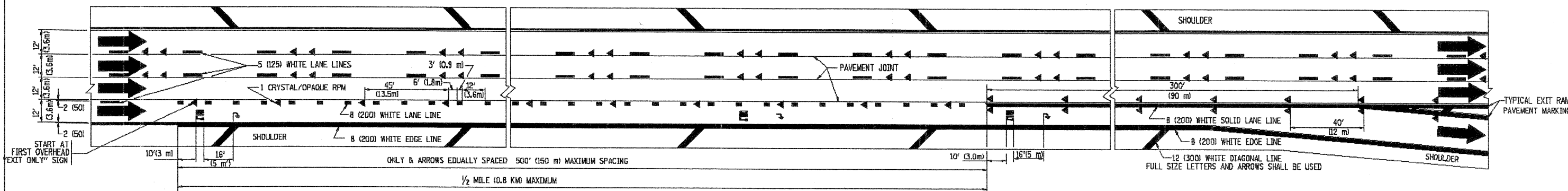
TC12 SHEET 1 OF 2

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	136
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

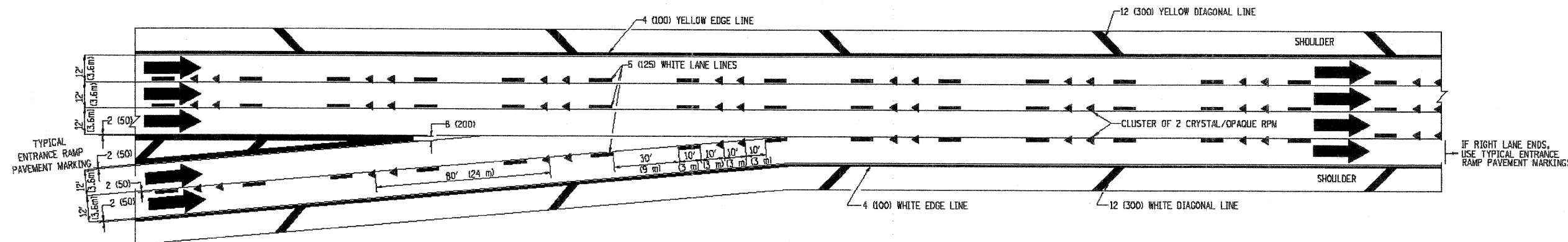
• (0312-708W, ETC. & 1315RS-4



**TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS**



**TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS**



**TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS**

REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY  
PAVEMENT MARKING  
DETAILS

SCALE: NONE

DRAWN BY C.A.D.D.

CHECKED BY

TC12 SHEET 2 OF 2

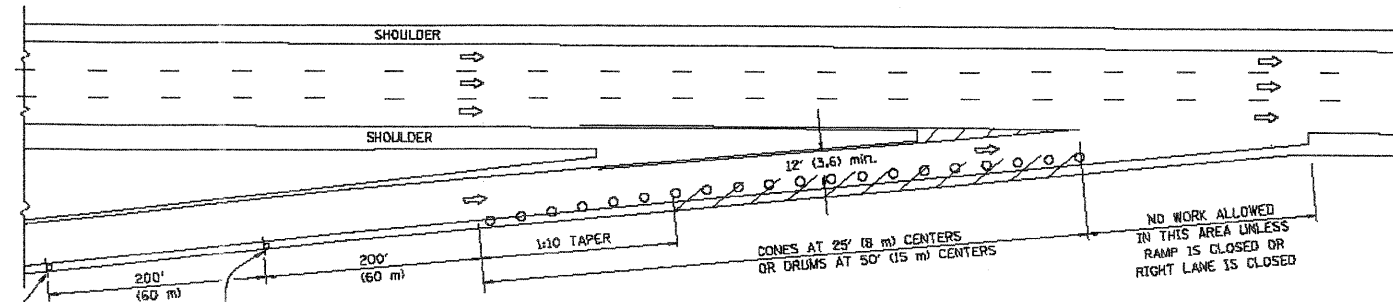
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USER NAME = bawdell  
D:\60C08-136-DISTRICT DETAIL.S.dgn

PARTIAL RAMP CLOSURE DETAILS

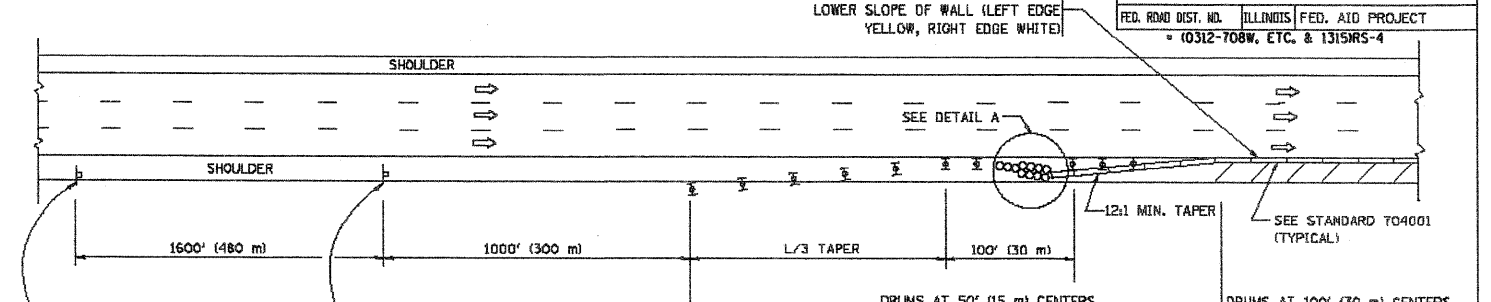
SHOULDER CLOSURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	137

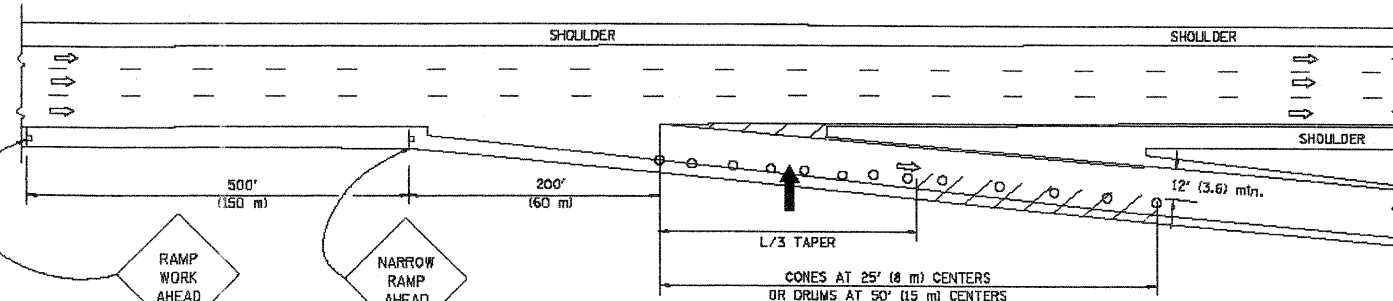
STA. TO STA.  
 ILLINOIS FED. AID PROJECT  
 10312-708W, ETC. & 1315RS-4



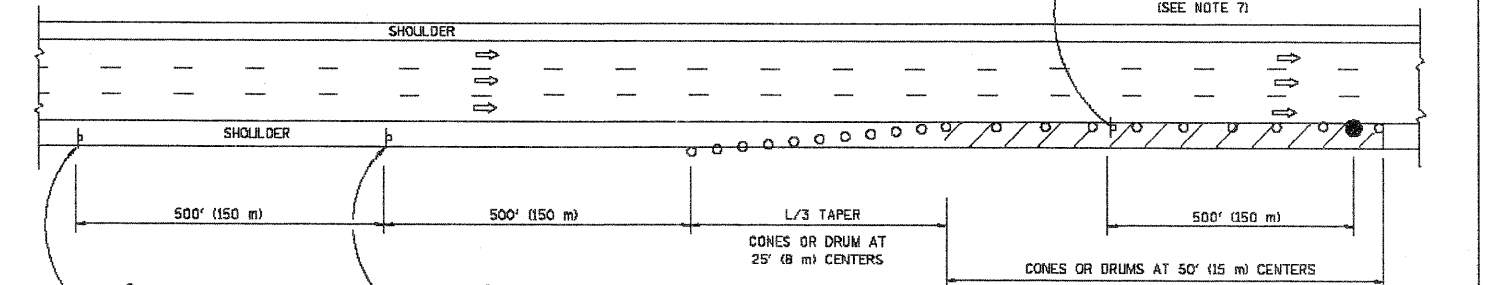
TYPICAL ENTRANCE RAMP



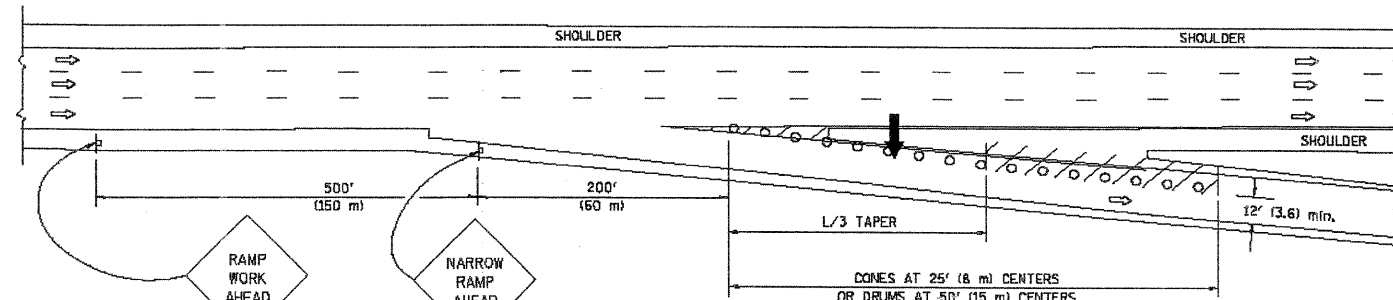
PERMANENT SHOULDER CLOSURE



TYPICAL EXIT RAMP



DAYTIME SHOULDER CLOSURE



TYPICAL EXIT RAMP

SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:  
 SPEED LIMIT FORMULAS  
 45 mph (80 km/h) METRIC ENGLISH  
 OR GREATER: L=0.6S(W/S) L=(W/S)  
 W = WIDTH OF OFFSET IN FEET (METERS)  
 S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

DETAIL "A"  
 IMPACT ATTENUATOR, TEMPORARY  
 (SEE NOTE 5)

REVISIONS	
NAME	DATE
DWS	11/95
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL DETAILS  
 FOR FREEWAY  
 SHOULDER CLOSURES  
 PARTIAL RAMP CLOSURES

SCALE: NONE

DESIGNED BY: DWS  
 DRAWN BY:  
 CHECKED BY:  
 TC-17

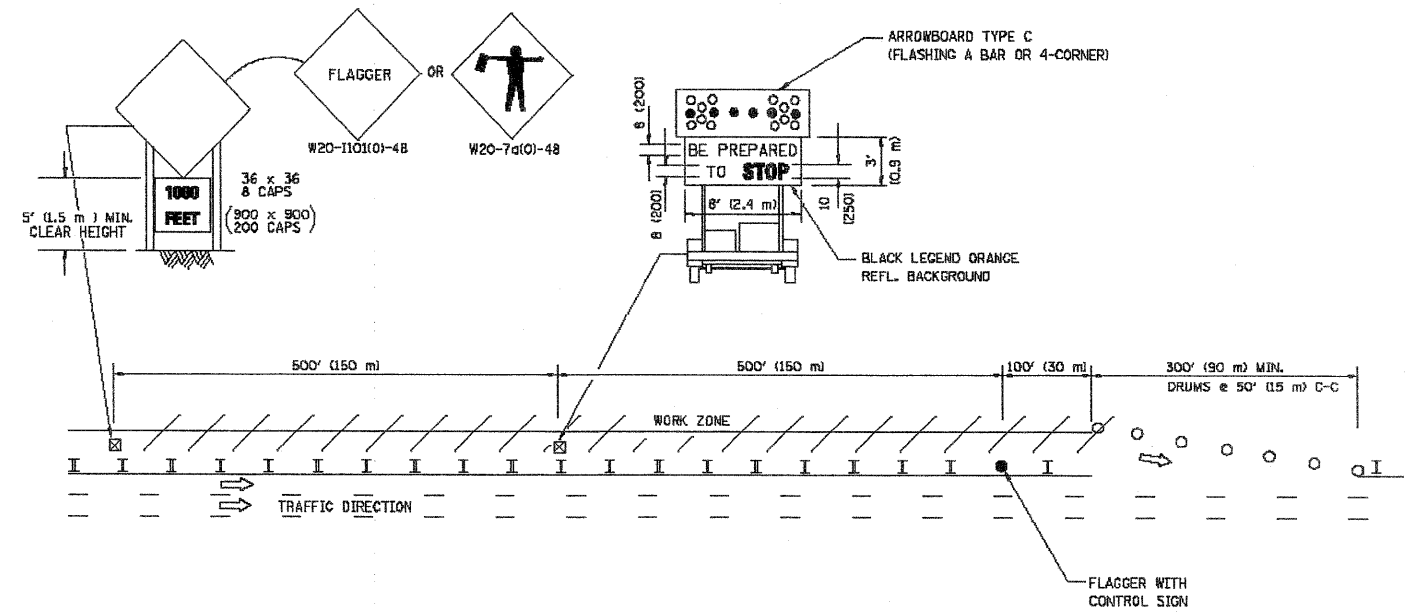
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	138
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

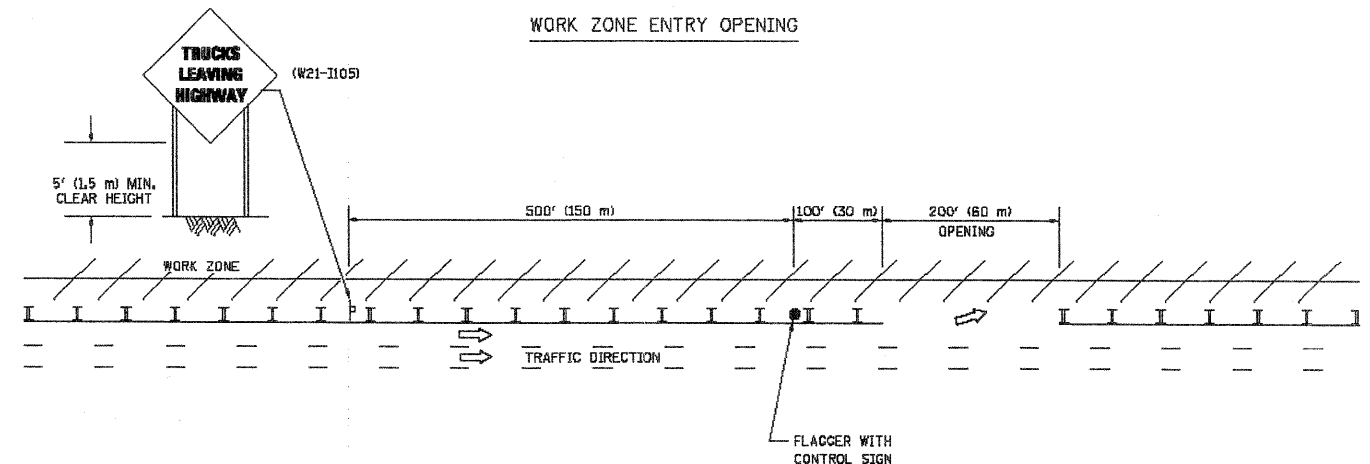
• 0312-708W, ETC. & 1315RS-4

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS

SCALE: NONE

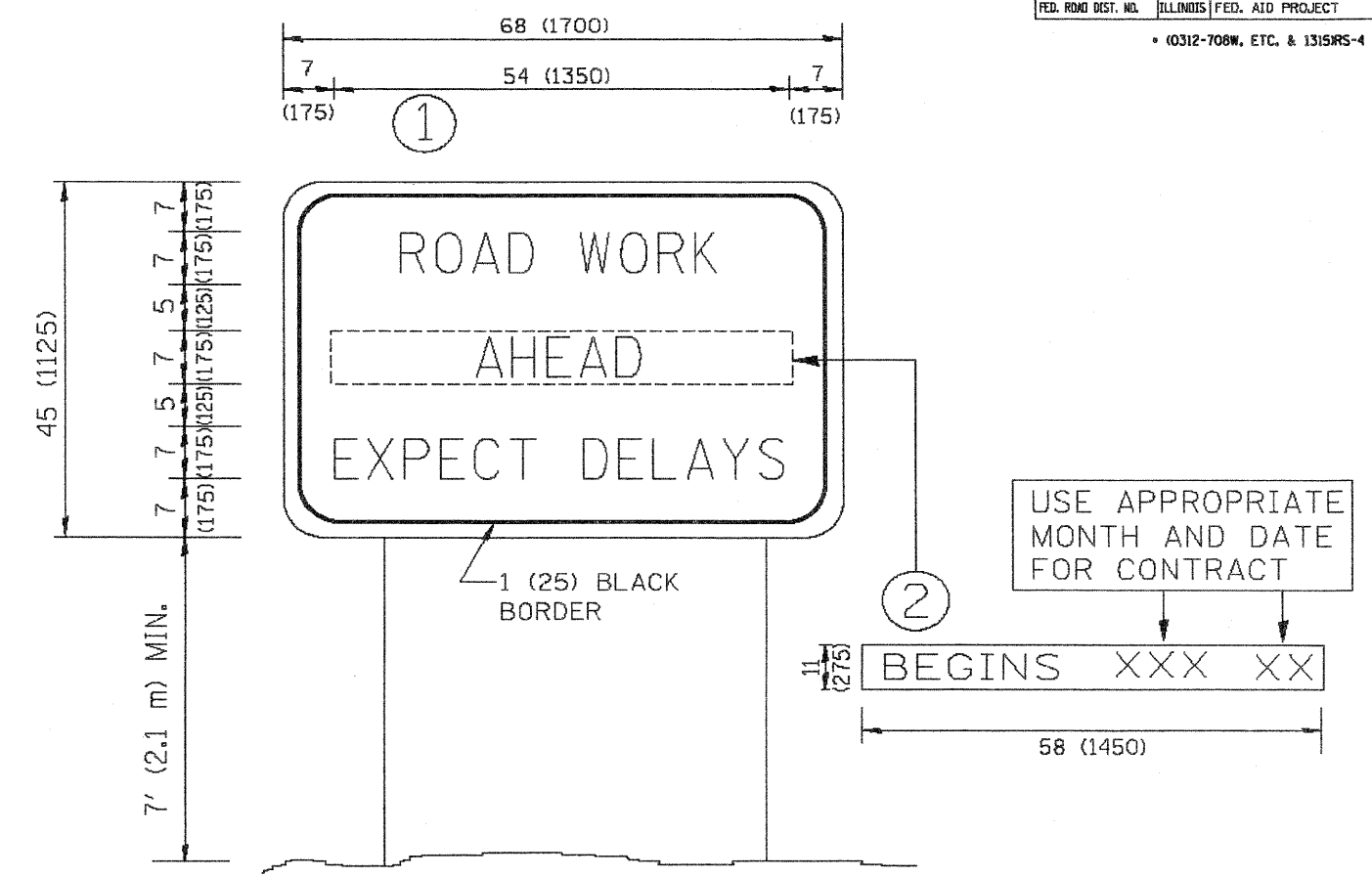
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CHECKED BY  
TC-18

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USER NAME = bmsw@illinois.gov  
DISC008-138-DISTRICT DETAILS.dgn



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	167	139
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

\* (0312-708W, ETC. & 1315RS-4



NOTES:

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

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

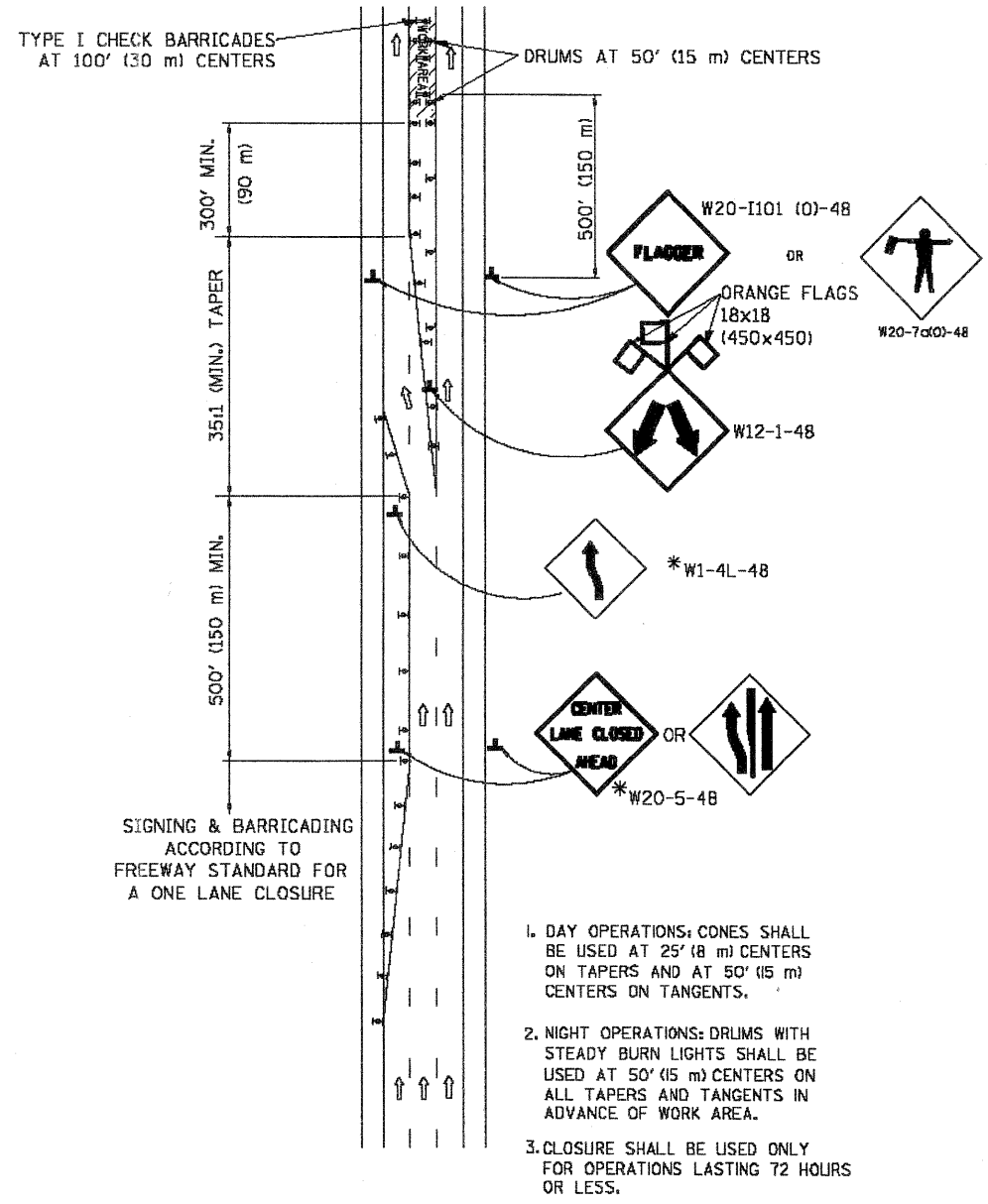
REVISIONS	
NAME	DATE
R. MIRS	9-16-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUXTUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 ARTERIAL ROAD  
 INFORMATION SIGN  
 SCALE: NONE  
 DRAWN BY DESIGN  
 CHECKED BY  
 TC22

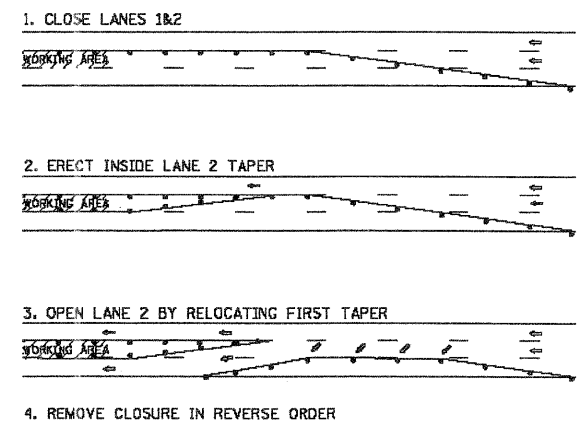
PLOT DATE : 2/2/2007  
 FILE NAME : R:\Users\ramm\My Documents\2007\02\02.dgn  
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 USER NAME : rammer  
 D:\60C08-199-DISTRICT DETAILS.dgn

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	140
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		* (0312-708W, ETC. & 1315IRS-4		

# CENTER LANE CLOSURE

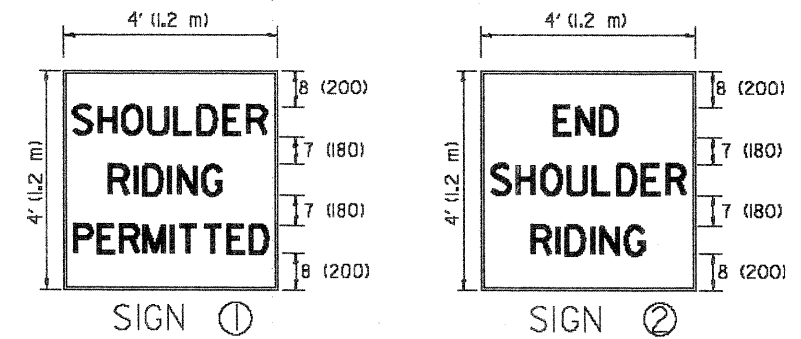
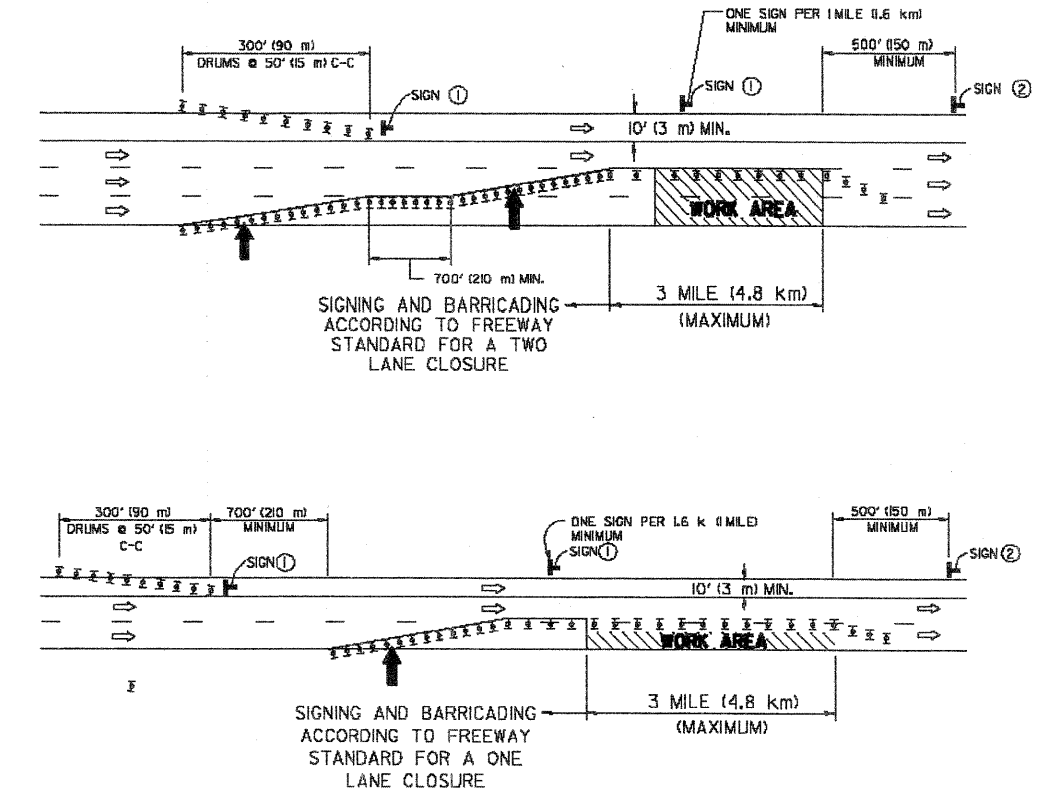


### INSTALLATION SEQUENCE



# SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



### SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➡ ARROWBOARD
- ▨ WORK AREA
- ◊ SIGN WITH 18x18 (450x450) ORANGE FLAGS ATTACHED \*
- ⊣ SIGN ON PORTABLE OR PERMANENT SUPPORT \*
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

\* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

REVISIONS	
NAME	DATE
PRIOR DETAILS ON TC-9 - JAF	4/03
SPB	1/07

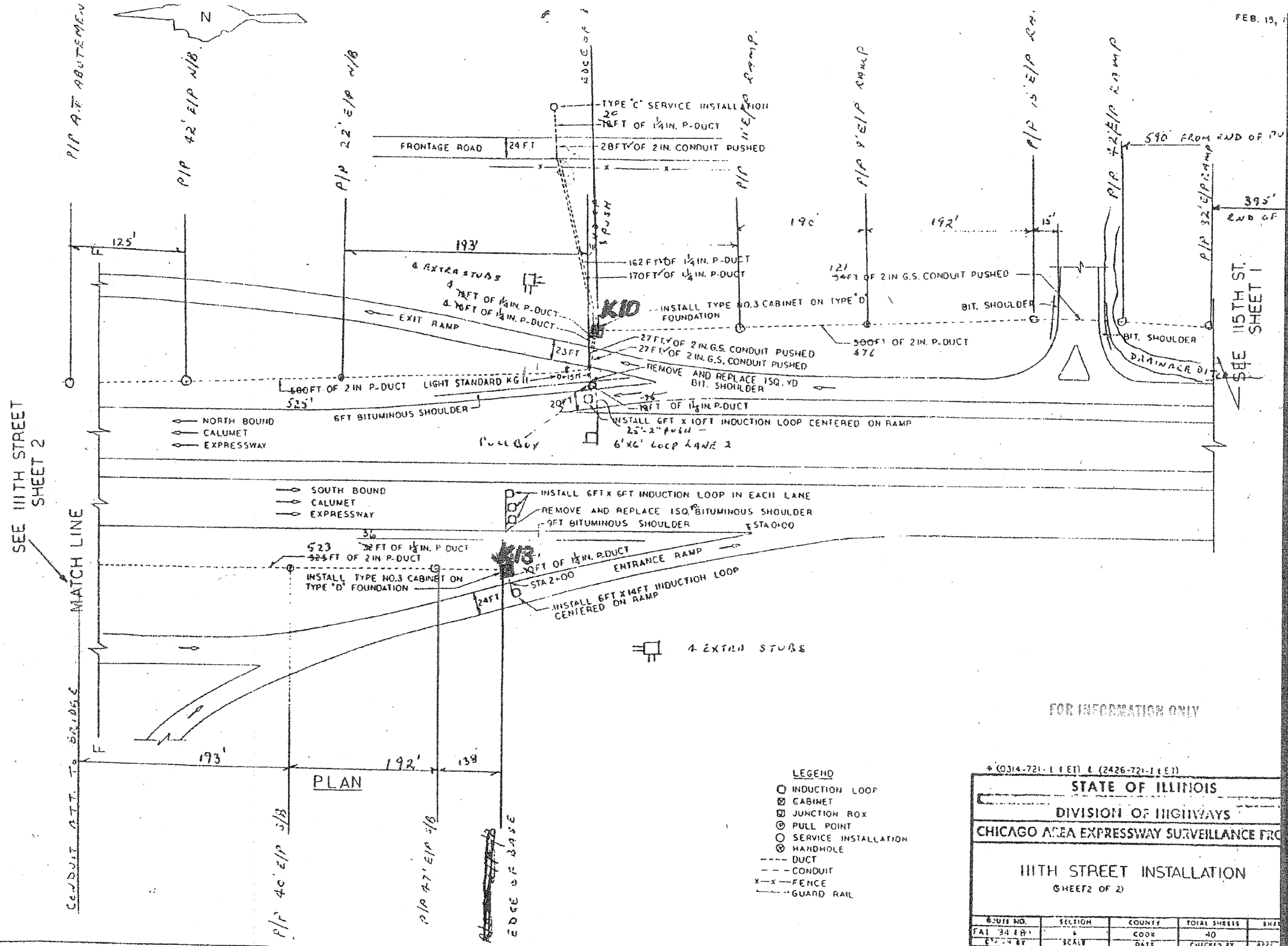
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL DETAILS  
FOR FREEWAY  
CENTER LANE CLOSURE  
SHOULDER LANE**

SCALE: NONE  
DATE: \_\_\_\_\_  
DRAWN BY: R.H.  
CHECKED BY: \_\_\_\_\_  
TC-25

DATE = 4/10/2007  
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 PLOT NAME = 140-DISTRICT-DETAILS.dgn  
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 D:\60C08-140-DISTRICT-DETAILS.dgn







FOR INFORMATION ONLY

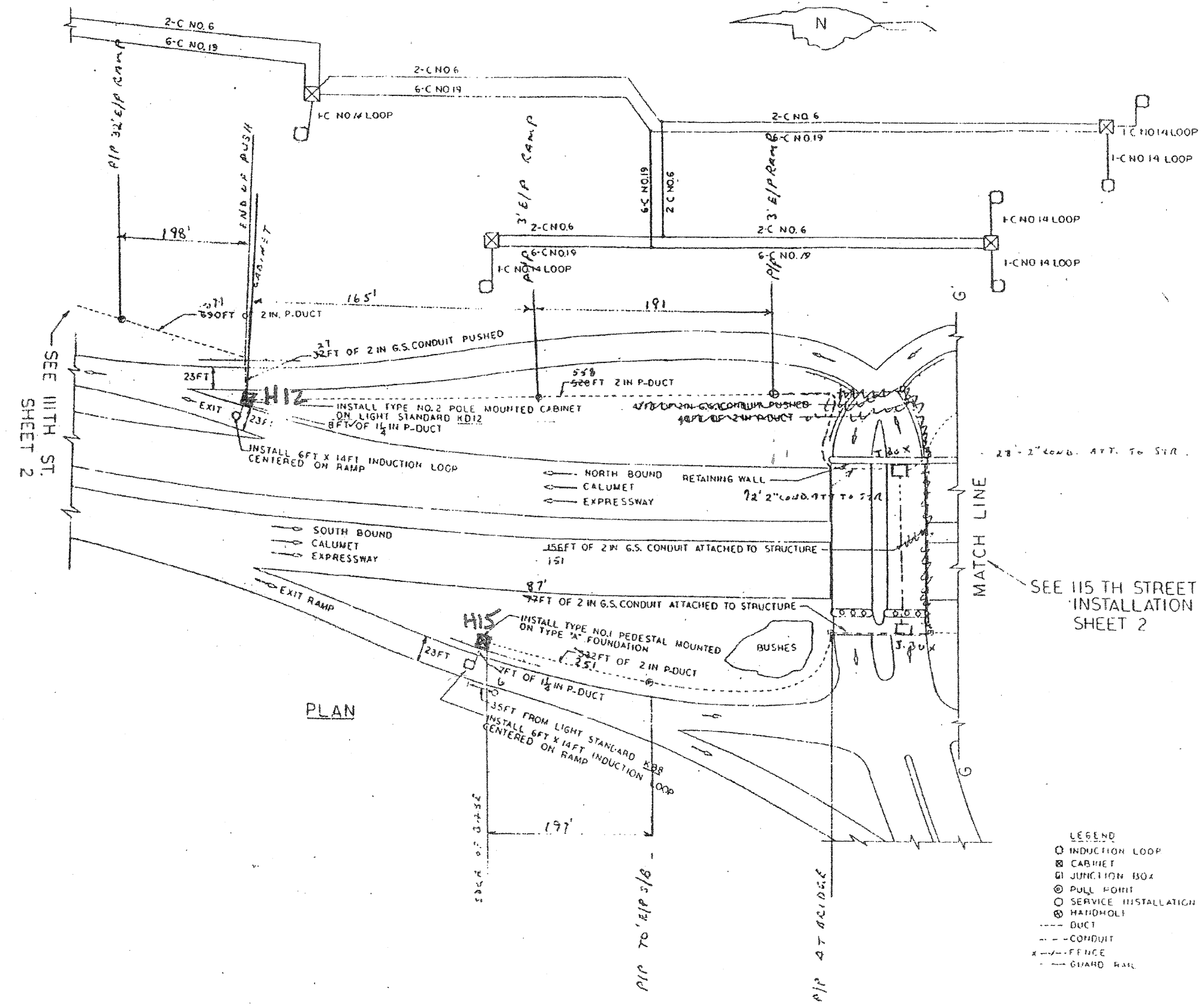
(0314-721-1(E)) & (2426-721-1(E))

**STATE OF ILLINOIS**  
**DIVISION OF HIGHWAYS**  
**CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT**

**IIIth STREET INSTALLATION**  
 (SHEET 2 OF 2)

SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	4	COOK	40	41
DESIGNED BY	SCALE	DATE	CHECKED BY	DATE
PSC	NGHE	AUG 30 1971	MOB	JNC

FILE NAME = 0160C08-143-TRAFFIC SURVEILLANCE.dgn	USER NAME = dwozniarski	DESIGNED - DRAWN - DMW, GDS	REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94)</b> <b>TRAFFIC SURVEILLANCE</b>		F.A.I. RTE. 94	SECTION (0312-708W, ETC. & 1315RS-4)	COUNTY COOK	TOTAL SHEETS 167	SHEET NO. 143
PLOT SCALE = N/A	CHECKED -	REVISED -	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		CONTRACT NO. 60C08	
PLOT DATE = 2/6/2009	DATE - 2/6/2009	REVISED -	REVISED -		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				



SCHEDULE OF QUANTITIES

2497	2779	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 14, 1VC
524	236	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 1VC
2497	2779	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 5/8"
		LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 1/2"
		LIN. FT.	G.S. CONDUIT IN TRENCH, 2"
		LIN. FT.	G.S. CONDUIT, PUSHED, 2"
		LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 2"
371	288	LIN. FT.	INSTALL TELEPHONE DUCT
229	779	LIN. FT.	INSTALL POLYETHYLENE DUCT, 1-1/2"
2276	2489	LIN. FT.	INSTALL POLYETHYLENE DUCT, 2"
		EACH	CONCRETE FOUNDATION, TYPE A
		EACH	HEAVY DUTY W/WHOLE
2497	2044	LIN. FT.	TRENCH AND BACKFILL
3	2	SQ. YD.	CONTINUOUS CONCRETE SURFACE RENOVATION AND REPLACEMENT
		EACH	SERVICE INSTALLATION, TYPE C
		EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 1
		EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 2
		EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 1
		EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 2
		EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 1
		EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 2
262	269	LIN. FT.	INDUCTION LOOP
		EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
		EACH	INDUCTION LOOP DETECTOR TRANSMITTER
		EACH	INDUCTION LOOP DETECTOR RECEIVER
		EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
		EACH	INDUCTION LOOP DETECTOR MOUNTING FRAME
		EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
		EACH	INDUCTION LOOP DETECTOR SENSOR UNIT

- LEGEND
- INDUCTION LOOP
  - ⊠ CABINET
  - ⊕ JUNCTION BOX
  - PULL POINT
  - SERVICE INSTALLATION
  - ⊗ HANDHOLE
  - DUCT
  - CONDUIT
  - FENCE
  - GUARD RAIL

FOR INFORMATION ONLY

\* 0314-72-115-1 (2425-021) 115-1

STATE OF ILLINOIS  
DIVISION OF HIGHWAYS  
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

115 TH STREET INSTALLATION  
SHEET 1 OF 2

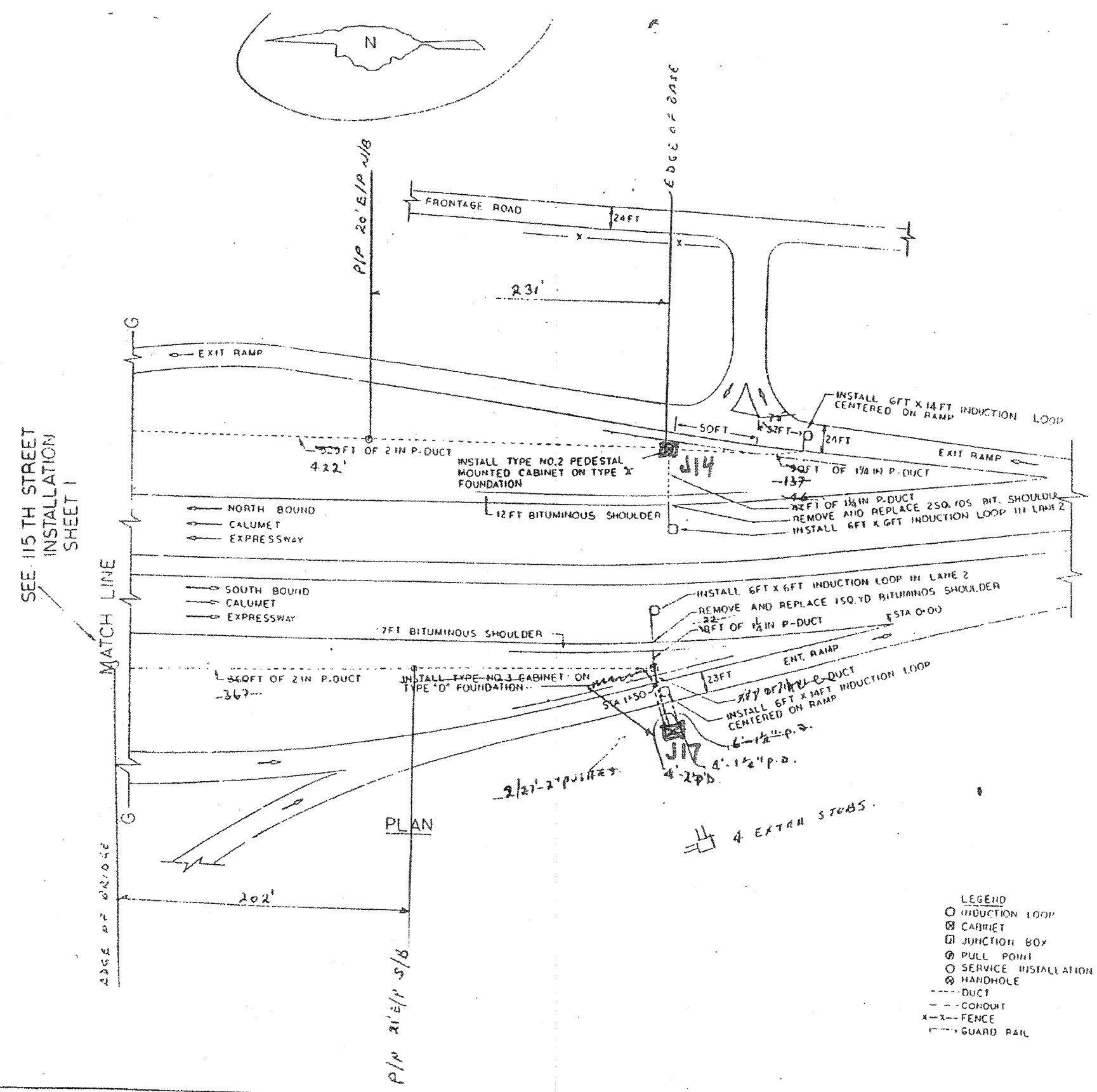
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0312-708N, ETC. & 1315RS-4	COOK	167	144

CONTRACT NO. 60C08

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0312-708N, ETC. & 1315RS-4	COOK	167	144

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

*FENCE  
SAFETY  
IMPA.*

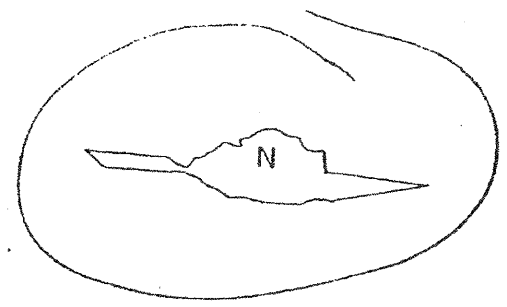


- LEGEND
- INDUCTION LOOP
  - ⊗ CABINET
  - ⊠ JUNCTION BOX
  - ⊙ PULL POINT
  - SERVICE INSTALLATION
  - HANDHOLE
  - DUCT
  - CONDUIT
  - x-x FENCE
  - GUARD RAIL

FOR INFORMATION ONLY

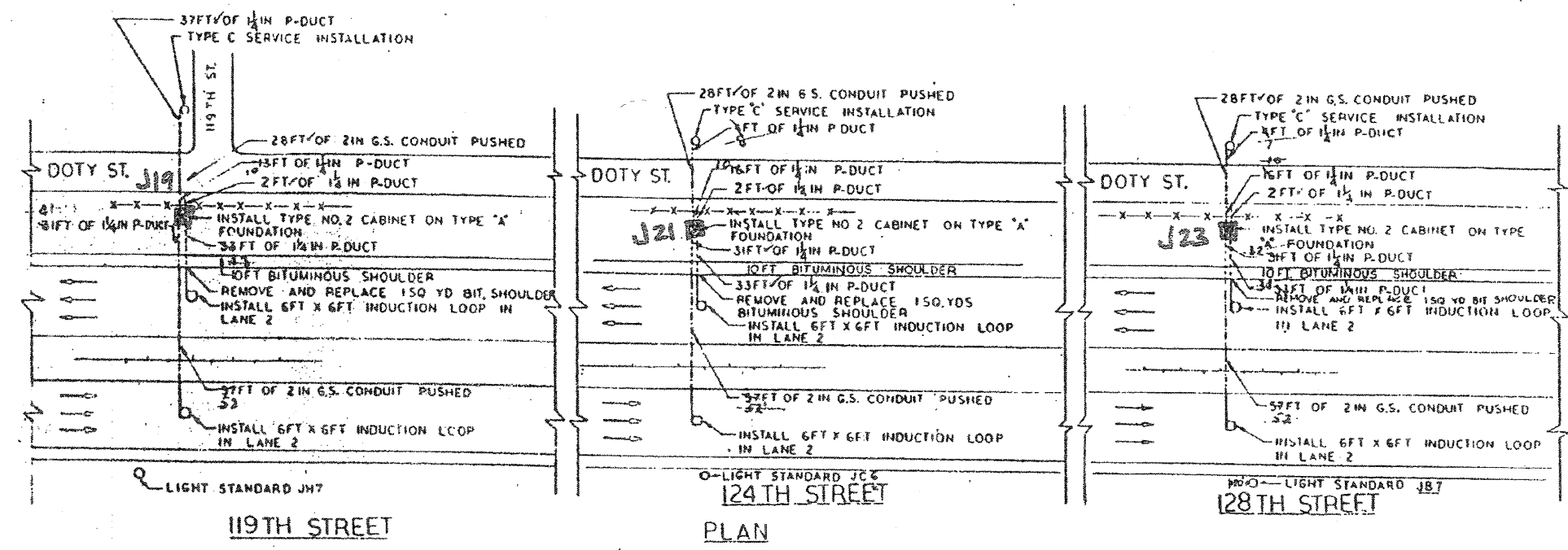
# (0314-721-1161) & (2426-721-1151)

STATE OF ILLINOIS				
DIVISION OF HIGHWAYS				
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT				
115 TH STREET INSTALLATION (SHEET 2 OF 2)				
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	4	COOK	167	145
DRAWN BY	SCALE	DATE	CHECKED BY	APP'D
P.S.C.	NONE	MAR 20 1971	R.D.B.	J.A.L.



5A/6  
0 50'

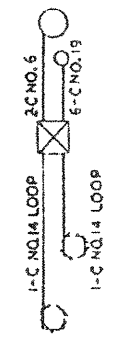
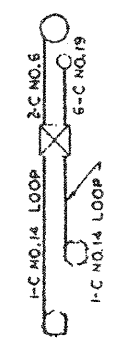
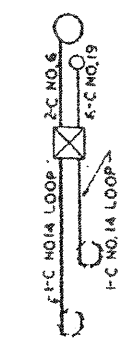
5B/12  
0 24'



119TH STREET

PLAN

128TH STREET



WIRING DIAGRAM

- LEGEND
- INDUCTION LOOP
  - CABINET
  - ⊕ JUNCTION BOX
  - ⊙ SERVICE INSTALLATION
  - PULL POINT
  - ⊙ HANDHOLE
  - DUCT
  - CONDUIT
  - X-X- FENCE
  - ┌ GUARD RAIL

SCHEDULE OF QUANTITIES

169	174 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 6, 2/C
170	846 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 14, 3/C
21	30 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 6/C
	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 12/C
	LIN. FT.	G.S. CONDUIT IN TRENCH, 1-1/2"
	LIN. FT.	G.S. CONDUIT IN TRENCH, 2"
24C	244 LIN. FT.	G.S. CONDUIT, PUSHED, 2"
	LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 1-1/2"
	LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 2"
	LIN. FT.	INSTALL TELEPHONE DUCT
342	857 LIN. FT.	INSTALL POLYETHYLENE DUCT, 1-1/2"
	LIN. FT.	INSTALL POLYETHYLENE DUCT, 2"
	3 EACH	CONCRETE FOUNDATION, TYPE A
	EACH	CONCRETE FOUNDATION, TYPE B
	EACH	HEAVY DUTY HANDHOLE
	EACH	HANDHOLE
192	348 LIN. FT.	TRENCH AND BACKFILL
73	9 SQ. YD.	BITUMINOUS CONCRETE SURFACE REMOVAL AND REPLACEMENT SERVICE INSTALLATION, TYPE C
	3 EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 1
	3 EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 2
	EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 1
	EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 2
	EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 1
	EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 2
246	866 LIN. FT.	INDUCTION LOOP
	6 EACH	TONE EQUIPMENT 3 FREQUENCY TRANSMITTER
	6 EACH	TONE EQUIPMENT 3 FREQUENCY RECEIVER
	6 EACH	TONE EQUIPMENT POWER SUPPLY
	3 EACH	TONE EQUIPMENT MOUNTING FRAME
	3 EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
	6 EACH	INDUCTION LOOP DETECTOR SIGNAL UNIT

FOR INFORMATION ONLY

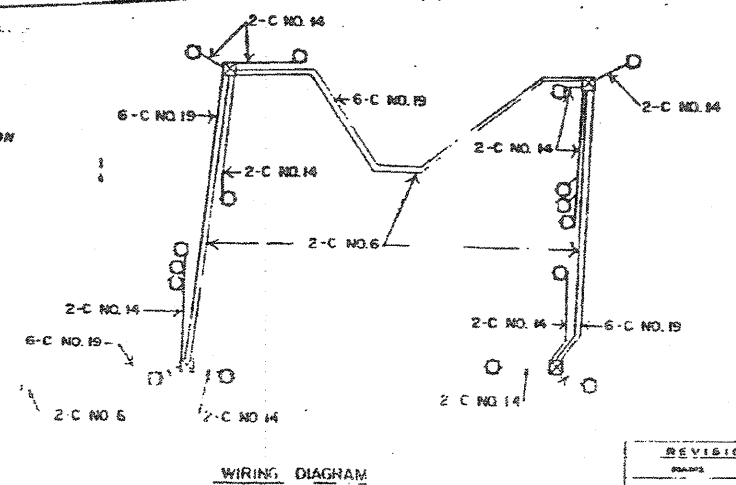
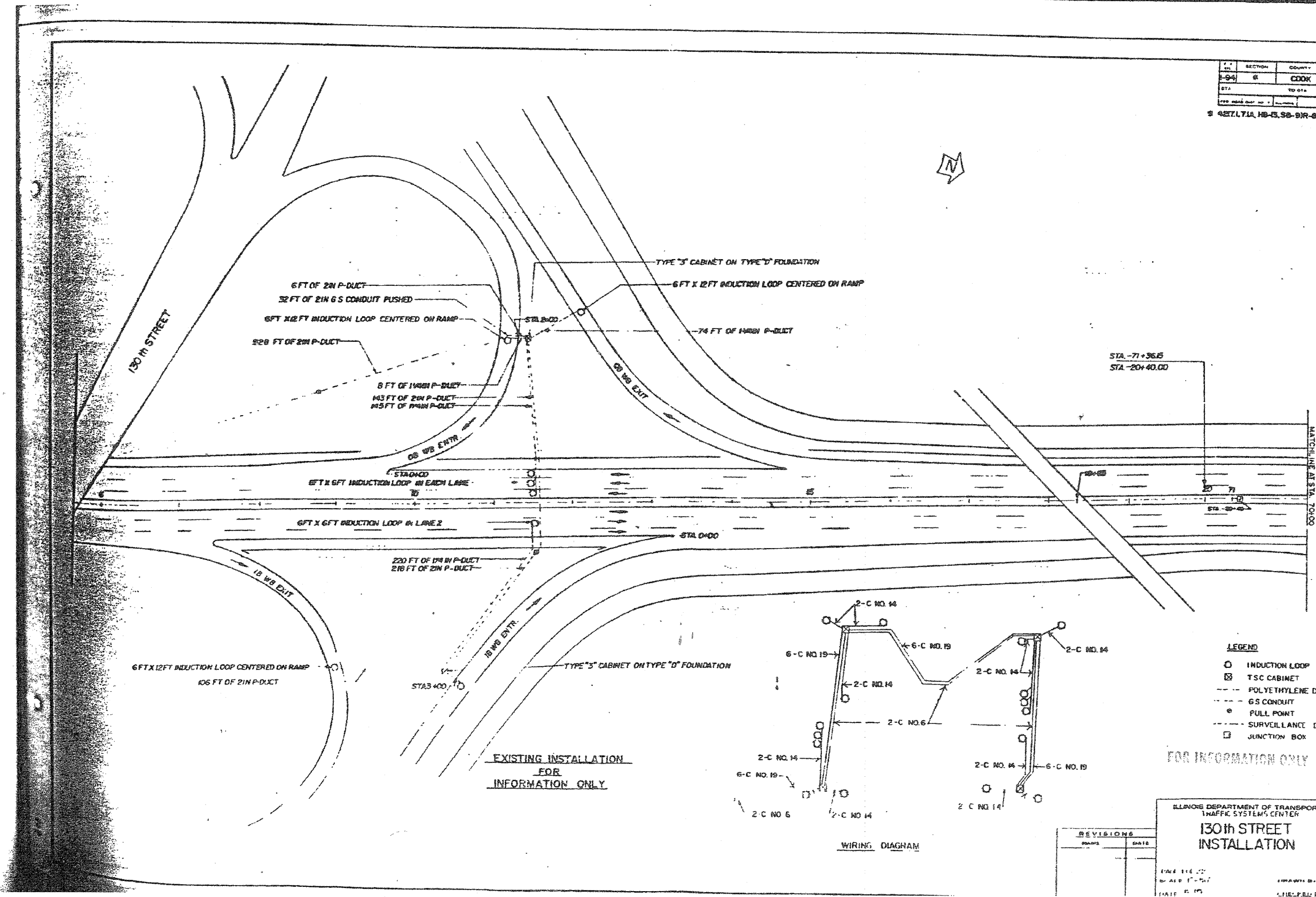
STATE OF ILLINOIS  
DIVISION OF HIGHWAYS  
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

119TH 124TH AND 128TH STREET INSTALLATIONS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
141	1	COOK	17	12
DRAWN BY	SCALE	DATE	CHECKED BY	APPROVED
PSC	AS SHOWN	APR 12, 1972	ROB	JMCD



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	COOK	206	104
STA. TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



- LEGEND**
- INDUCTION LOOP
  - ⊠ TSC CABINET
  - POLYETHYLENE DUCT
  - - - GS CONDUIT
  - PULL POINT
  - SURVEILLANCE DUCT
  - ⊠ JUNCTION BOX

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

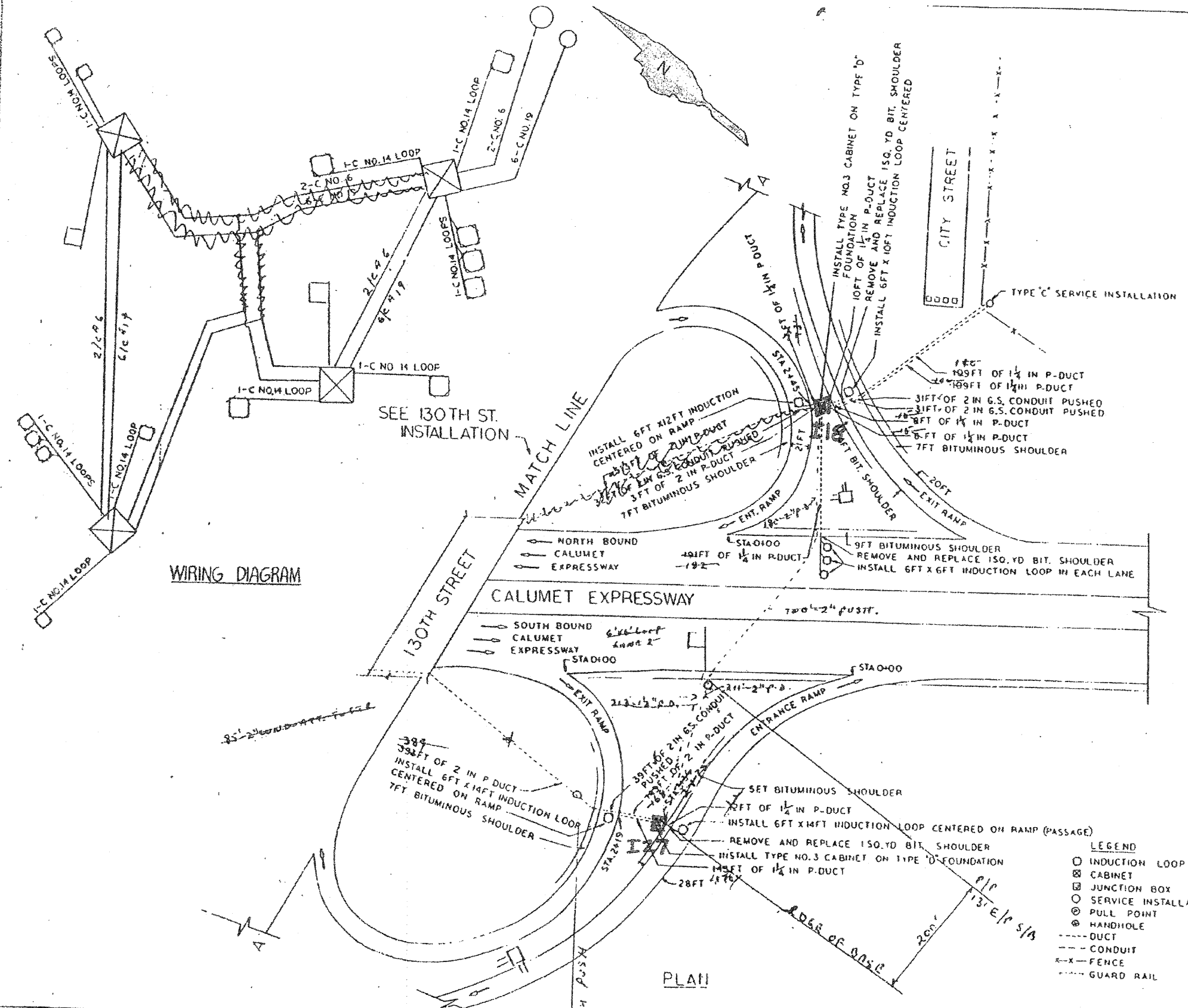
**130th STREET  
INSTALLATION**

DATE: 2/6/09  
DRAWN BY: [Name]  
CHECKED BY: [Name]  
DATE: [Date]

REVISIONS	
NO.	DATE







WIRING DIAGRAM

PLAN

FOR INFORMATION ONLY

(0314-721-1451) & (2424-721-1451)

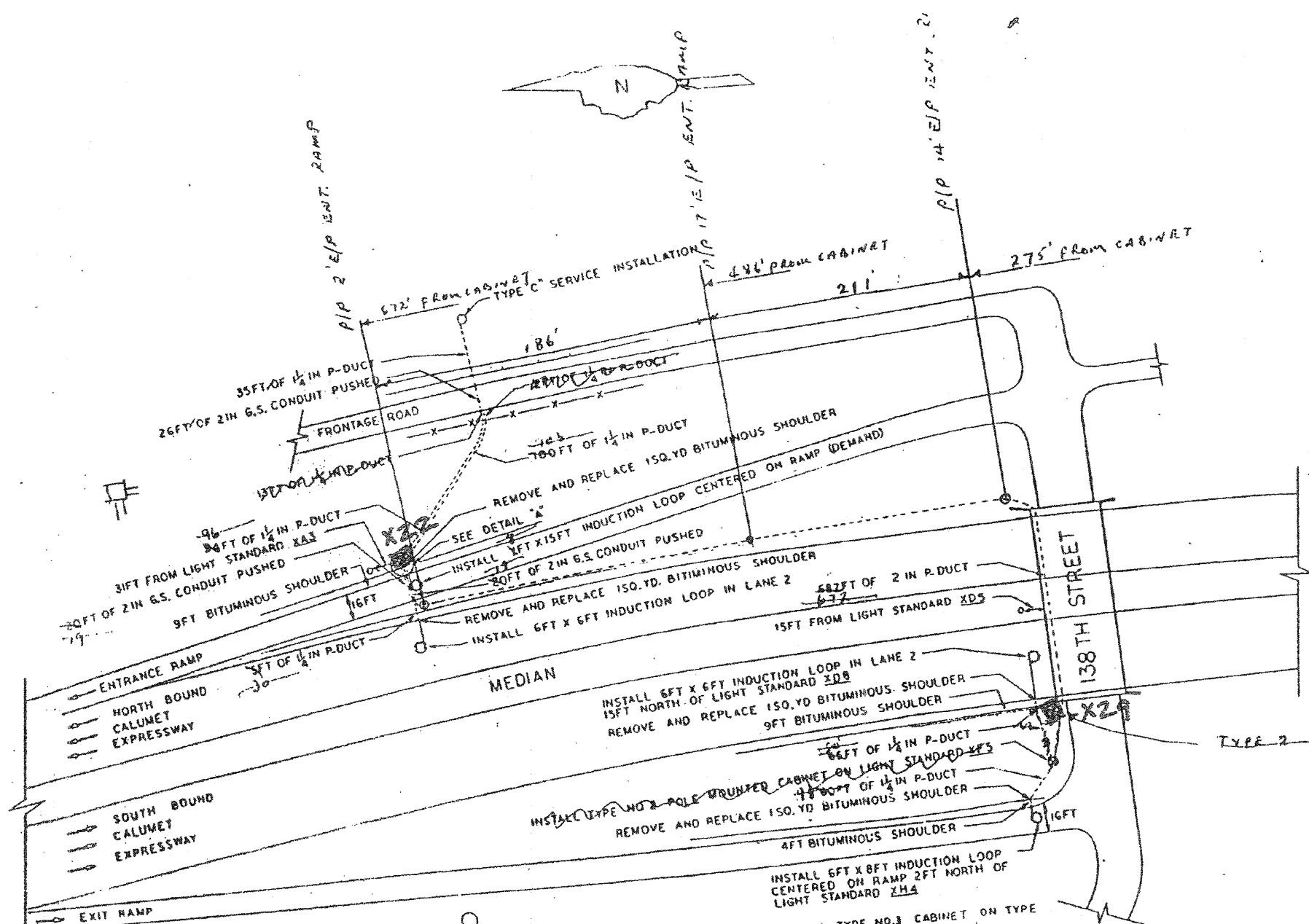
STATE OF ILLINOIS  
DIVISION OF HIGHWAYS

CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

130TH STREET INSTALLATION  
(SHEET 2 OF 2)

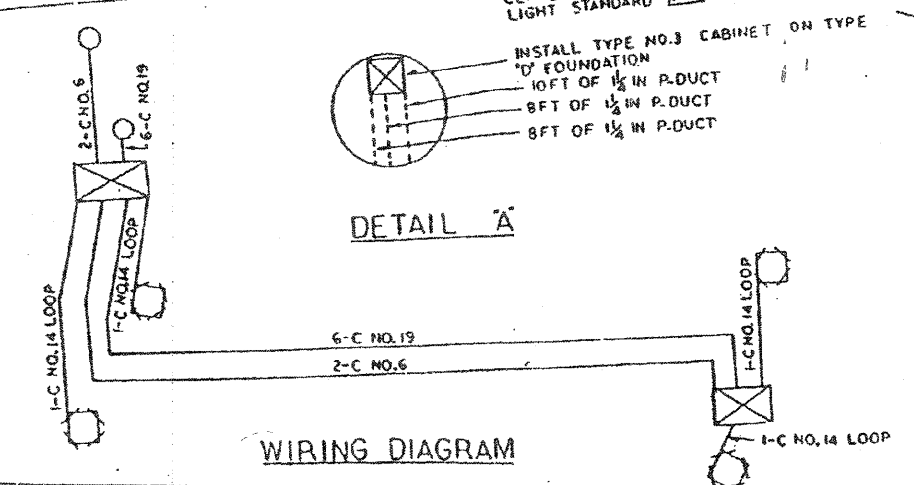
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
130	94	COOK	10	14
DESIGNED BY	KATE	DATE	CHECKED BY	APPROVED BY
PSC	NOHE	NOV 10 2009	RDB	JUL 0





SCHEDULE OF QUANTITIES

273	296 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 5, 2/C
266	296 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 14, 3/C
805	802 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 5/C
	6 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 18, 32/C
	6 LIN. FT.	G.S. CONDUIT IN TRENCH, 1-1/2"
	6 LIN. FT.	G.S. CONDUIT IN TRENCH, 2"
61	48 LIN. FT.	G.S. CONDUIT, PESHED, 2"
15	148 LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 1-1/2"
	148 LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 2"
486	286 LIN. FT.	INSTALL TELEPHONE DUCT
623	286 LIN. FT.	INSTALL POLYETHYLENE DUCT, 1-1/2"
	286 LIN. FT.	INSTALL POLYETHYLENE DUCT, 2"
	1 EACH	CONCRETE FOUNDATION, TYPE A
	1 EACH	CONCRETE FOUNDATION, TYPE D
	1 EACH	HEAVY DUTY H. HOLE
	1 EACH	INDUCTION LOOP
1001	206 LIN. FT.	TRENCH AND BACKFILL
	6 SQ. YD.	BITUMINOUS CONCRETE SURFACE REMOVE AND REPLACEMENT
	8 EACH	SERVICE INSTALLATION, TYPE C
	8 EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 1
	8 EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 2
	8 EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 1
	8 EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 2
	8 EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 1
	8 EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 2
164	185 LIN. FT.	INDUCTION LOOP
	8 EACH	TONE EQUIPMENT 3 FREQUENCY TRANSMITTER
	8 EACH	TONE EQUIPMENT 3 FREQUENCY RECEIVER
	8 EACH	TONE EQUIPMENT 3 FREQUENCY RECEIVER
	8 EACH	TONE EQUIPMENT POWER SUPPLY
	8 EACH	TONE EQUIPMENT MOUNTING FRAME
	8 EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
	8 EACH	INDUCTION LOOP DETECTOR SENSOR UNIT



- LEGEND
- INDUCTION LOOP
  - CABINET
  - ▣ JUNCTION BOX
  - PULL POINT
  - ⊙ HANDHOLE
  - SERVICE INSTALLATION
  - DUCT
  - CONDUIT
  - X-X FENCE
  - GUARD RAIL

FOR INFORMATION ONLY

(C214-721 1 1 1) (C226-721 1 1 1)

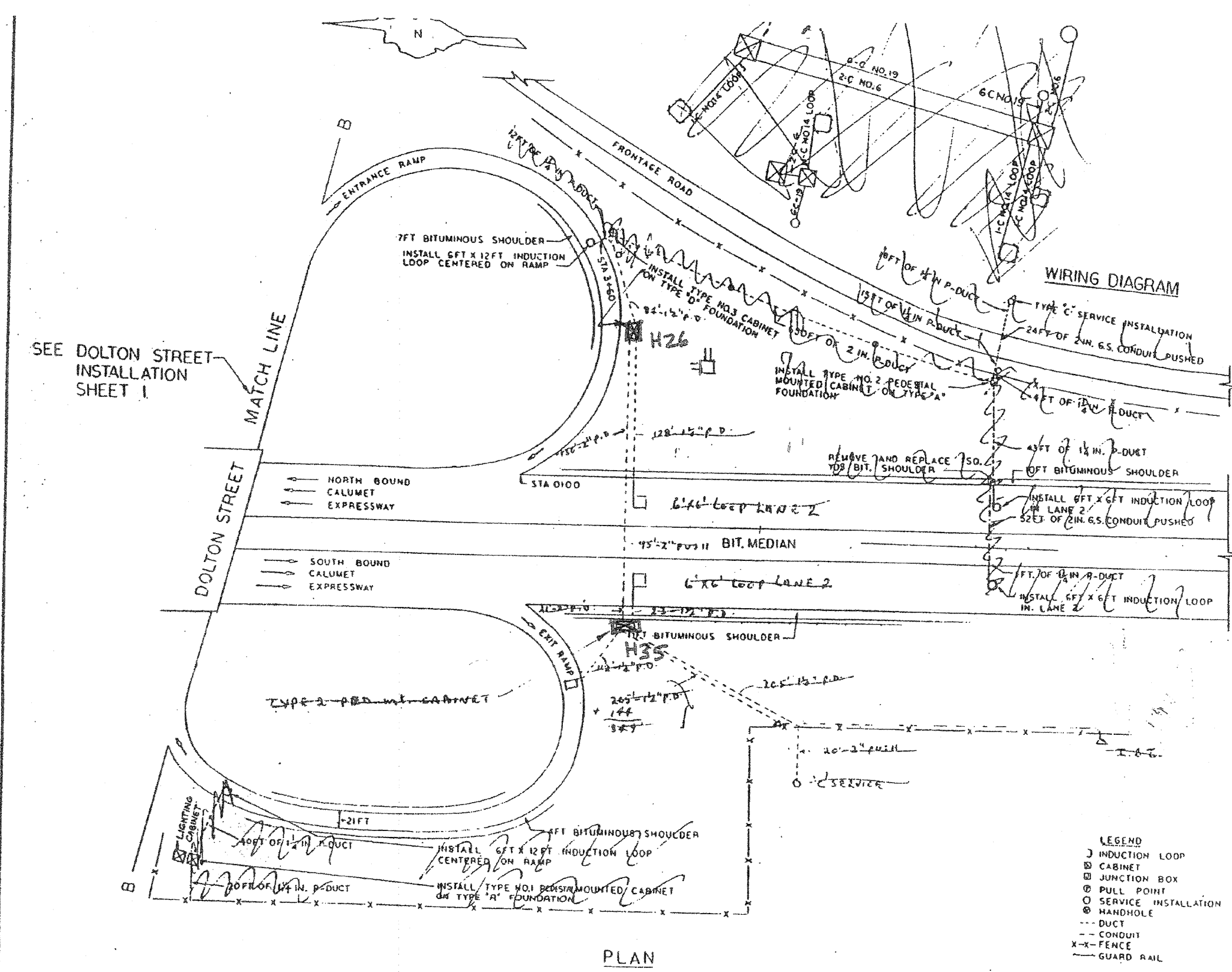
STATE OF ILLINOIS  
DIVISION OF HIGHWAYS  
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

138TH STREET INSTALLATION

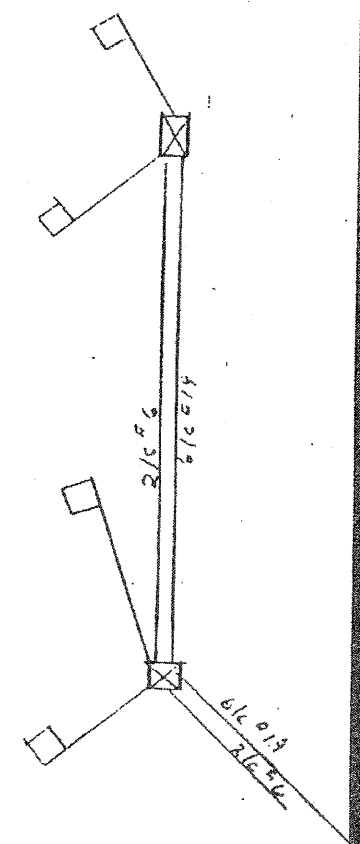
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	4	COOK	40	16
DRAWN BY	SCALE	CHECKED BY	APPROVED BY	
PSC	NONE	RDB	JMLD	



REVISION  
April 12,



WIRING DIAGRAM



SEE DOLTON STREET  
INSTALLATION  
SHEET 1.

PLAN

- LEGEND
- J INDUCTION LOOP
  - CABINET
  - ⊠ JUNCTION BOX
  - PULL POINT
  - SERVICE INSTALLATION
  - ⊙ HANDHOLE
  - DUCT
  - - - CONDUIT
  - x-x FENCE
  - GUARD RAIL

FOR INFORMATION ONLY

(0314-721-I & ET) & (2426-721-I & ET)

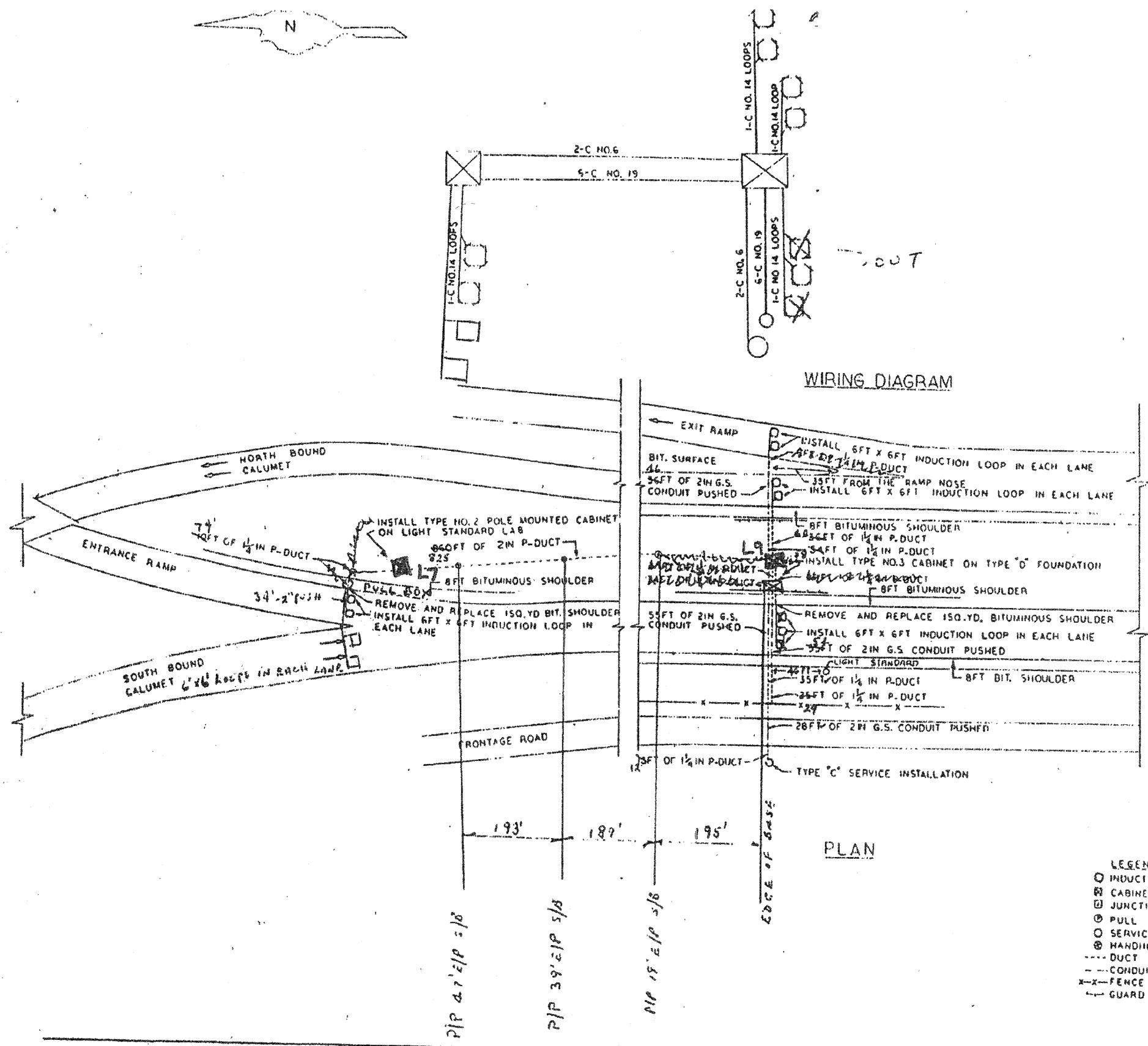
STATE OF ILLINOIS  
DIVISION OF HIGHWAYS  
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

DOLTON STREET INSTALLATION  
(SHEET 2 OF 2)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SH
FAI 201 SC	6	COOK	40	
DRAWN BY	SCALE	DATE	CHECKED BY	APPR
PSC	NONE	2/6/2009	RDB	JMC

FILE NAME = D160C08-154-TRAFFIC SURVEILLANCE.dgn	USER NAME = dwoznarski	DESIGNED - DRAWN - DMW, GDS	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BISHOP FORD EXPRESSWAY (I-94) TRAFFIC SURVEILLANCE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = N/A	CHECKED -	REVISED -	94			(0312-708W, ETC. & 1315RS-4)	COOK	167	154	
PLOT DATE = 2/6/2009	DATE - 2/6/2009	REVISED -	SCALE: N/A			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	(ILLINOIS) FED. AID PROJECT





SCHEDULE OF QUANTITIES

968	1000 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 6, 2/C
1466	800 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 4, 1/C
925	1000 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 5/C
	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 5/C
	LIN. FT.	G.S. CONDUIT IN TRENCH, 1-1/2"
216	100 LIN. FT.	G.S. CONDUIT IN TRENCH, 2"
	LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 1-1/2"
10	LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 2"
	LIN. FT.	INSTALL TELEPHONE DUCT
305	1000 LIN. FT.	INSTALL POLYETHYLENE DUCT, 1-1/2"
315	1000 LIN. FT.	INSTALL POLYETHYLENE DUCT, 2"
	EACH	CONCRETE FOUNDATION, TYPE A
	EACH	CONCRETE FOUNDATION, TYPE D
	EACH	HEAVY DUTY HANDHOLE
	EACH	HANDHOLE
1428	2000 LIN. FT.	TRENCH AND BACKFILL
2	100 YD.	BITUMINOUS CONCRETE SURFACE REMOVAL AND REPLACEMENT
	EACH	SERVICE INSTALLATION, TYPE C
	EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P.
	EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P.
	EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P.
	EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P.
	EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE
	EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE
312.5	512 LIN. FT.	INDUCTION LOOP
	EACH	TYPE EQUIPMENT 3 FREQUENCY TRANSMITTER
	EACH	TYPE EQUIPMENT 3 FREQUENCY ALTERNATE TRANSMITTER
	EACH	TYPE EQUIPMENT 3 FREQUENCY RECEIVER
	EACH	TYPE EQUIPMENT POWER SUPPLY
	EACH	TYPE EQUIPMENT MOUNTING FRAME
	EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
	EACH	INDUCTION LOOP DETECTOR ALARM UNIT

FOR INFORMATION ONLY

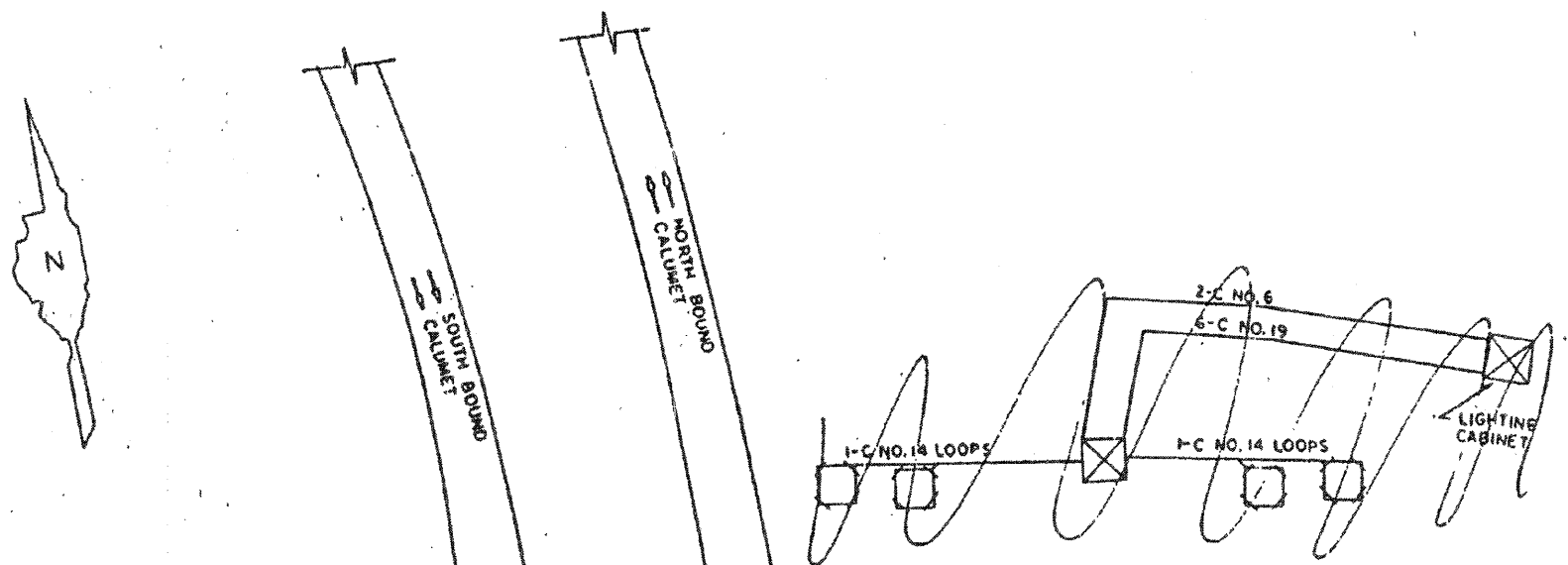
(614-720-1111) (2426-72-1111)

STATE OF ILLINOIS  
DIVISION OF HIGHWAYS  
CHICAGO AREA EXPRESSWAY SURVEILLANCE

STONEY ISLAND AVE. INSTALLATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	10312-708W, ETC. & 1315RS-4	COOK	167	155
CHICAGO AREA EXPRESSWAY SURVEILLANCE			CONTRACT NO. 60C08	

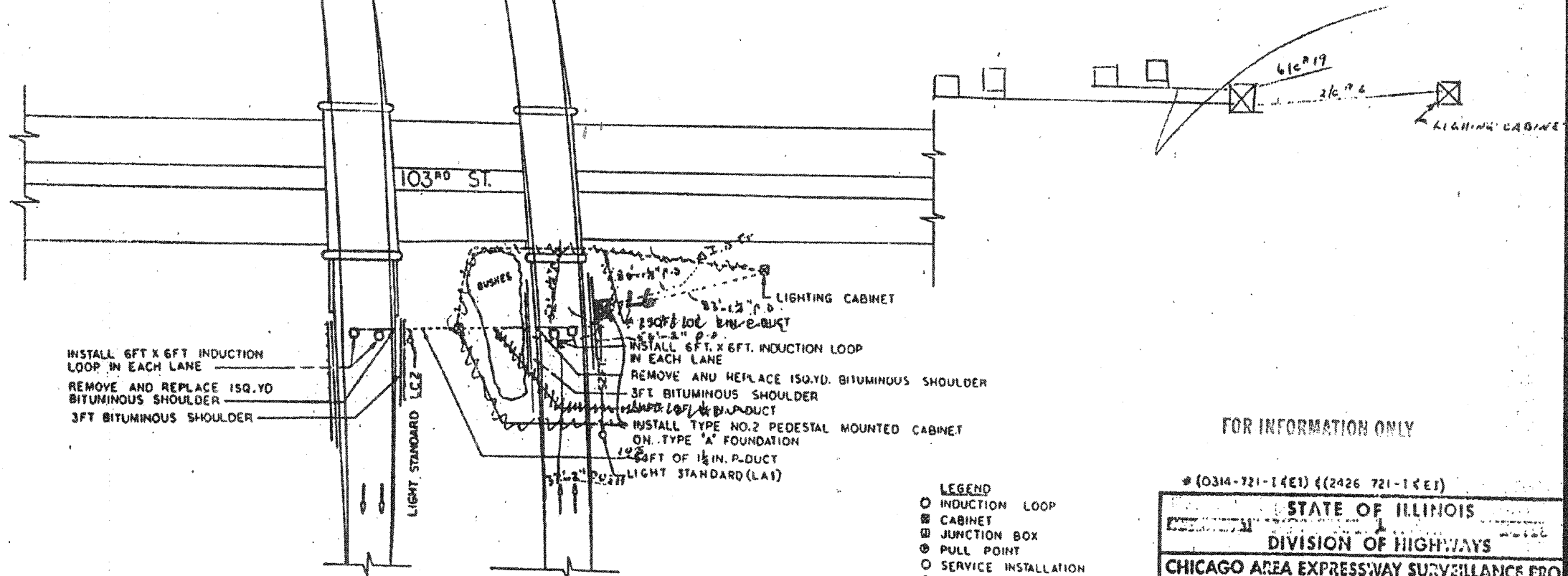
- LEGEND
- INDUCTION LOOP
  - CABINET
  - ⊗ JUNCTION BOX
  - PULL POINT
  - SERVICE INSTALLATION
  - ⊗ HANDHOLE
  - DUCT
  - CONDUIT
  - x-x FENCE
  - GUARD RAIL



WIRING DIAGRAM

STATEMENT OF QUANTITIES

27	256	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 8, 3/C
176	452	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 14, 3/C
20	150	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 19, 6/C
268	100	LIN. FT.	INSTALL POLYETHYLENE (AKT, 1-1/2")
350	100	LIN. FT.	INSTALL POLYETHYLENE DUCT, 2"
2	1	EACH	CONCRETE FOUNDATION, TYPE 'A'
2	1	EACH	TRENCH AND BACKFILL
2	1	EACH	BITUMINOUS CONCRETE SURFACE REPAIRS AND REPLAC.
2	1	EACH	CABINET HOUSING (PULL POINT, PEDESTAL MOUNTED, 2
155	150	LIN. FT.	INDUCTION LOOP
1	1	EACH	STEP DOWN TRANSFORMER
1	1	EACH	TYPE EQUIPMENT 3 PHASE/3 WIRE TRANSFORMER
1	1	EACH	INDUCTION LOOP DETECTOR SENSOR UNIT
1	1	EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
37	1	EACH	4.3 CONDUIT, 1 1/2" DIA. 2"
4	1	EACH	4.4 CONDUIT RT. TO ST. 2"



PLAN

INSTALL 6FT X 6FT INDUCTION LOOP IN EACH LANE  
 REMOVE AND REPLACE 15Q.YD BITUMINOUS SHOULDER  
 3FT BITUMINOUS SHOULDER  
 LIGHT STANDARD (LAI)  
 LIGHT STANDARD (LAI)  
 150FT 10' DIA. DUCT  
 INSTALL 6FT X 6FT INDUCTION LOOP IN EACH LANE  
 REMOVE AND REPLACE 15Q.YD. BITUMINOUS SHOULDER  
 3FT BITUMINOUS SHOULDER  
 150FT 10' DIA. DUCT  
 INSTALL TYPE NO. 2 PEDESTAL MOUNTED CABINET ON TYPE 'A' FOUNDATION  
 150FT OF 1 1/2 IN. P-DUCT  
 LIGHT STANDARD (LAI)

- LEGEND
- INDUCTION LOOP
  - CABINET
  - JUNCTION BOX
  - PULL POINT
  - SERVICE INSTALLATION
  - HANDHOLE
  - DUCT
  - - - CONDUIT
  - X-X FENCE
  - GUARD RAIL

FOR INFORMATION ONLY

#(0314-721-14E1) ((2426 721-14E1))

STATE OF ILLINOIS  
 DIVISION OF HIGHWAYS  
 CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

103 RD STREET INSTALLATION

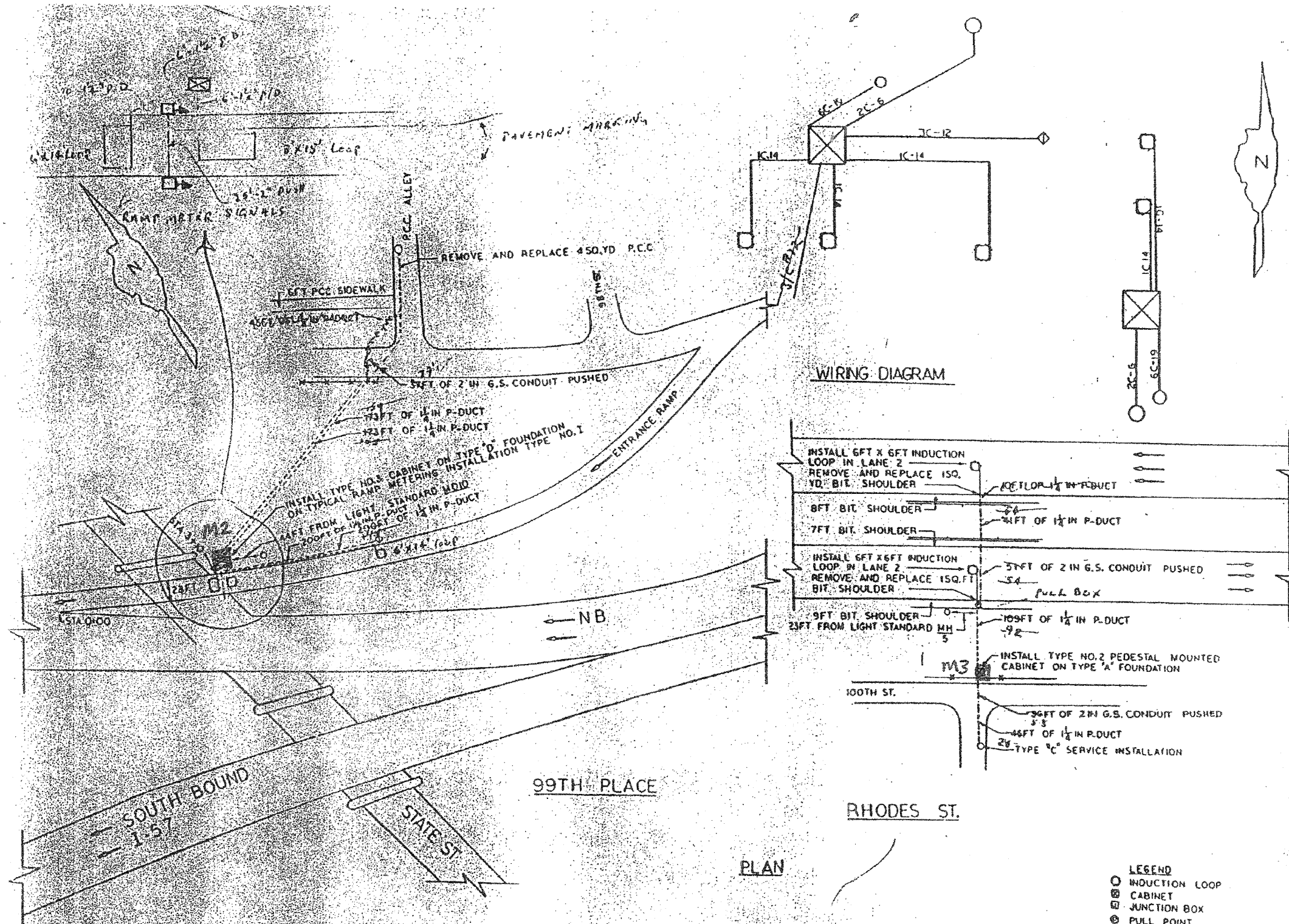
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	10312-708W, ETC. & 13151RS-4	COOK	167	156

CONTRACT NO. 60C08



REVISIONS

April 12, 2012



SCHEDULE OF QUANTITIES

327	250 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 6, 2/C
328	400 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 14, 1/C
329	100 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 14, 6/C
330	100 LIN. FT.	6.5" CONDUIT IN TRENCH, 1-1/4"
331	100 LIN. FT.	6.5" CONDUIT IN TRENCH, 2"
332	100 LIN. FT.	6.5" CONDUIT, PUSH-ROD, 2"
333	100 LIN. FT.	6.5" CONDUIT ATTACHED TO STRUCTURE, 1-1/4"
334	100 LIN. FT.	6.5" CONDUIT ATTACHED TO STRUCTURE, 2"
335	100 LIN. FT.	INSTALL TELEPHONE DUCT
336	100 LIN. FT.	INSTALL POLYETHYLENE DUCT, 1-1/4"
337	100 LIN. FT.	INSTALL POLYETHYLENE DUCT, 2"
338	100 LIN. FT.	CONCRETE FOUNDATION, TYPE A
339	100 LIN. FT.	CONCRETE FOUNDATION, TYPE B
340	100 LIN. FT.	TRAYS 3/8" X 1/2"
341	100 LIN. FT.	TRAYS 1/2" X 3/4"
342	100 LIN. FT.	TRAYS 3/4" X 1"
343	100 LIN. FT.	TRAYS 1" X 1 1/2"
344	100 LIN. FT.	TRAYS 1 1/2" X 2"
345	100 LIN. FT.	TRAYS 2" X 2 1/2"
346	100 LIN. FT.	TRAYS 2 1/2" X 3"
347	100 LIN. FT.	TRAYS 3" X 3 1/2"
348	100 LIN. FT.	TRAYS 3 1/2" X 4"
349	100 LIN. FT.	TRAYS 4" X 4 1/2"
350	100 LIN. FT.	TRAYS 4 1/2" X 5"
351	100 LIN. FT.	TRAYS 5" X 5 1/2"
352	100 LIN. FT.	TRAYS 5 1/2" X 6"
353	100 LIN. FT.	TRAYS 6" X 6 1/2"
354	100 LIN. FT.	TRAYS 6 1/2" X 7"
355	100 LIN. FT.	TRAYS 7" X 7 1/2"
356	100 LIN. FT.	TRAYS 7 1/2" X 8"
357	100 LIN. FT.	TRAYS 8" X 8 1/2"
358	100 LIN. FT.	TRAYS 8 1/2" X 9"
359	100 LIN. FT.	TRAYS 9" X 9 1/2"
360	100 LIN. FT.	TRAYS 9 1/2" X 10"
361	100 LIN. FT.	TRAYS 10" X 10 1/2"
362	100 LIN. FT.	TRAYS 10 1/2" X 11"
363	100 LIN. FT.	TRAYS 11" X 11 1/2"
364	100 LIN. FT.	TRAYS 11 1/2" X 12"
365	100 LIN. FT.	TRAYS 12" X 12 1/2"
366	100 LIN. FT.	TRAYS 12 1/2" X 13"
367	100 LIN. FT.	TRAYS 13" X 13 1/2"
368	100 LIN. FT.	TRAYS 13 1/2" X 14"
369	100 LIN. FT.	TRAYS 14" X 14 1/2"
370	100 LIN. FT.	TRAYS 14 1/2" X 15"
371	100 LIN. FT.	TRAYS 15" X 15 1/2"
372	100 LIN. FT.	TRAYS 15 1/2" X 16"
373	100 LIN. FT.	TRAYS 16" X 16 1/2"
374	100 LIN. FT.	TRAYS 16 1/2" X 17"
375	100 LIN. FT.	TRAYS 17" X 17 1/2"
376	100 LIN. FT.	TRAYS 17 1/2" X 18"
377	100 LIN. FT.	TRAYS 18" X 18 1/2"
378	100 LIN. FT.	TRAYS 18 1/2" X 19"
379	100 LIN. FT.	TRAYS 19" X 19 1/2"
380	100 LIN. FT.	TRAYS 19 1/2" X 20"
381	100 LIN. FT.	TRAYS 20" X 20 1/2"
382	100 LIN. FT.	TRAYS 20 1/2" X 21"
383	100 LIN. FT.	TRAYS 21" X 21 1/2"
384	100 LIN. FT.	TRAYS 21 1/2" X 22"
385	100 LIN. FT.	TRAYS 22" X 22 1/2"
386	100 LIN. FT.	TRAYS 22 1/2" X 23"
387	100 LIN. FT.	TRAYS 23" X 23 1/2"
388	100 LIN. FT.	TRAYS 23 1/2" X 24"
389	100 LIN. FT.	TRAYS 24" X 24 1/2"
390	100 LIN. FT.	TRAYS 24 1/2" X 25"
391	100 LIN. FT.	TRAYS 25" X 25 1/2"
392	100 LIN. FT.	TRAYS 25 1/2" X 26"
393	100 LIN. FT.	TRAYS 26" X 26 1/2"
394	100 LIN. FT.	TRAYS 26 1/2" X 27"
395	100 LIN. FT.	TRAYS 27" X 27 1/2"
396	100 LIN. FT.	TRAYS 27 1/2" X 28"
397	100 LIN. FT.	TRAYS 28" X 28 1/2"
398	100 LIN. FT.	TRAYS 28 1/2" X 29"
399	100 LIN. FT.	TRAYS 29" X 29 1/2"
400	100 LIN. FT.	TRAYS 29 1/2" X 30"
401	100 LIN. FT.	TRAYS 30" X 30 1/2"
402	100 LIN. FT.	TRAYS 30 1/2" X 31"
403	100 LIN. FT.	TRAYS 31" X 31 1/2"
404	100 LIN. FT.	TRAYS 31 1/2" X 32"
405	100 LIN. FT.	TRAYS 32" X 32 1/2"
406	100 LIN. FT.	TRAYS 32 1/2" X 33"
407	100 LIN. FT.	TRAYS 33" X 33 1/2"
408	100 LIN. FT.	TRAYS 33 1/2" X 34"
409	100 LIN. FT.	TRAYS 34" X 34 1/2"
410	100 LIN. FT.	TRAYS 34 1/2" X 35"
411	100 LIN. FT.	TRAYS 35" X 35 1/2"
412	100 LIN. FT.	TRAYS 35 1/2" X 36"
413	100 LIN. FT.	TRAYS 36" X 36 1/2"
414	100 LIN. FT.	TRAYS 36 1/2" X 37"
415	100 LIN. FT.	TRAYS 37" X 37 1/2"
416	100 LIN. FT.	TRAYS 37 1/2" X 38"
417	100 LIN. FT.	TRAYS 38" X 38 1/2"
418	100 LIN. FT.	TRAYS 38 1/2" X 39"
419	100 LIN. FT.	TRAYS 39" X 39 1/2"
420	100 LIN. FT.	TRAYS 39 1/2" X 40"
421	100 LIN. FT.	TRAYS 40" X 40 1/2"
422	100 LIN. FT.	TRAYS 40 1/2" X 41"
423	100 LIN. FT.	TRAYS 41" X 41 1/2"
424	100 LIN. FT.	TRAYS 41 1/2" X 42"
425	100 LIN. FT.	TRAYS 42" X 42 1/2"
426	100 LIN. FT.	TRAYS 42 1/2" X 43"
427	100 LIN. FT.	TRAYS 43" X 43 1/2"
428	100 LIN. FT.	TRAYS 43 1/2" X 44"
429	100 LIN. FT.	TRAYS 44" X 44 1/2"
430	100 LIN. FT.	TRAYS 44 1/2" X 45"
431	100 LIN. FT.	TRAYS 45" X 45 1/2"
432	100 LIN. FT.	TRAYS 45 1/2" X 46"
433	100 LIN. FT.	TRAYS 46" X 46 1/2"
434	100 LIN. FT.	TRAYS 46 1/2" X 47"
435	100 LIN. FT.	TRAYS 47" X 47 1/2"
436	100 LIN. FT.	TRAYS 47 1/2" X 48"
437	100 LIN. FT.	TRAYS 48" X 48 1/2"
438	100 LIN. FT.	TRAYS 48 1/2" X 49"
439	100 LIN. FT.	TRAYS 49" X 49 1/2"
440	100 LIN. FT.	TRAYS 49 1/2" X 50"
441	100 LIN. FT.	TRAYS 50" X 50 1/2"
442	100 LIN. FT.	TRAYS 50 1/2" X 51"
443	100 LIN. FT.	TRAYS 51" X 51 1/2"
444	100 LIN. FT.	TRAYS 51 1/2" X 52"
445	100 LIN. FT.	TRAYS 52" X 52 1/2"
446	100 LIN. FT.	TRAYS 52 1/2" X 53"
447	100 LIN. FT.	TRAYS 53" X 53 1/2"
448	100 LIN. FT.	TRAYS 53 1/2" X 54"
449	100 LIN. FT.	TRAYS 54" X 54 1/2"
450	100 LIN. FT.	TRAYS 54 1/2" X 55"
451	100 LIN. FT.	TRAYS 55" X 55 1/2"
452	100 LIN. FT.	TRAYS 55 1/2" X 56"
453	100 LIN. FT.	TRAYS 56" X 56 1/2"
454	100 LIN. FT.	TRAYS 56 1/2" X 57"
455	100 LIN. FT.	TRAYS 57" X 57 1/2"
456	100 LIN. FT.	TRAYS 57 1/2" X 58"
457	100 LIN. FT.	TRAYS 58" X 58 1/2"
458	100 LIN. FT.	TRAYS 58 1/2" X 59"
459	100 LIN. FT.	TRAYS 59" X 59 1/2"
460	100 LIN. FT.	TRAYS 59 1/2" X 60"
461	100 LIN. FT.	TRAYS 60" X 60 1/2"
462	100 LIN. FT.	TRAYS 60 1/2" X 61"
463	100 LIN. FT.	TRAYS 61" X 61 1/2"
464	100 LIN. FT.	TRAYS 61 1/2" X 62"
465	100 LIN. FT.	TRAYS 62" X 62 1/2"
466	100 LIN. FT.	TRAYS 62 1/2" X 63"
467	100 LIN. FT.	TRAYS 63" X 63 1/2"
468	100 LIN. FT.	TRAYS 63 1/2" X 64"
469	100 LIN. FT.	TRAYS 64" X 64 1/2"
470	100 LIN. FT.	TRAYS 64 1/2" X 65"
471	100 LIN. FT.	TRAYS 65" X 65 1/2"
472	100 LIN. FT.	TRAYS 65 1/2" X 66"
473	100 LIN. FT.	TRAYS 66" X 66 1/2"
474	100 LIN. FT.	TRAYS 66 1/2" X 67"
475	100 LIN. FT.	TRAYS 67" X 67 1/2"
476	100 LIN. FT.	TRAYS 67 1/2" X 68"
477	100 LIN. FT.	TRAYS 68" X 68 1/2"
478	100 LIN. FT.	TRAYS 68 1/2" X 69"
479	100 LIN. FT.	TRAYS 69" X 69 1/2"
480	100 LIN. FT.	TRAYS 69 1/2" X 70"
481	100 LIN. FT.	TRAYS 70" X 70 1/2"
482	100 LIN. FT.	TRAYS 70 1/2" X 71"
483	100 LIN. FT.	TRAYS 71" X 71 1/2"
484	100 LIN. FT.	TRAYS 71 1/2" X 72"
485	100 LIN. FT.	TRAYS 72" X 72 1/2"
486	100 LIN. FT.	TRAYS 72 1/2" X 73"
487	100 LIN. FT.	TRAYS 73" X 73 1/2"
488	100 LIN. FT.	TRAYS 73 1/2" X 74"
489	100 LIN. FT.	TRAYS 74" X 74 1/2"
490	100 LIN. FT.	TRAYS 74 1/2" X 75"
491	100 LIN. FT.	TRAYS 75" X 75 1/2"
492	100 LIN. FT.	TRAYS 75 1/2" X 76"
493	100 LIN. FT.	TRAYS 76" X 76 1/2"
494	100 LIN. FT.	TRAYS 76 1/2" X 77"
495	100 LIN. FT.	TRAYS 77" X 77 1/2"
496	100 LIN. FT.	TRAYS 77 1/2" X 78"
497	100 LIN. FT.	TRAYS 78" X 78 1/2"
498	100 LIN. FT.	TRAYS 78 1/2" X 79"
499	100 LIN. FT.	TRAYS 79" X 79 1/2"
500	100 LIN. FT.	TRAYS 79 1/2" X 80"

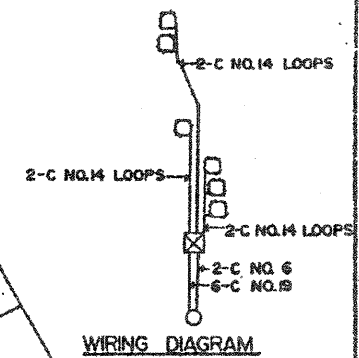
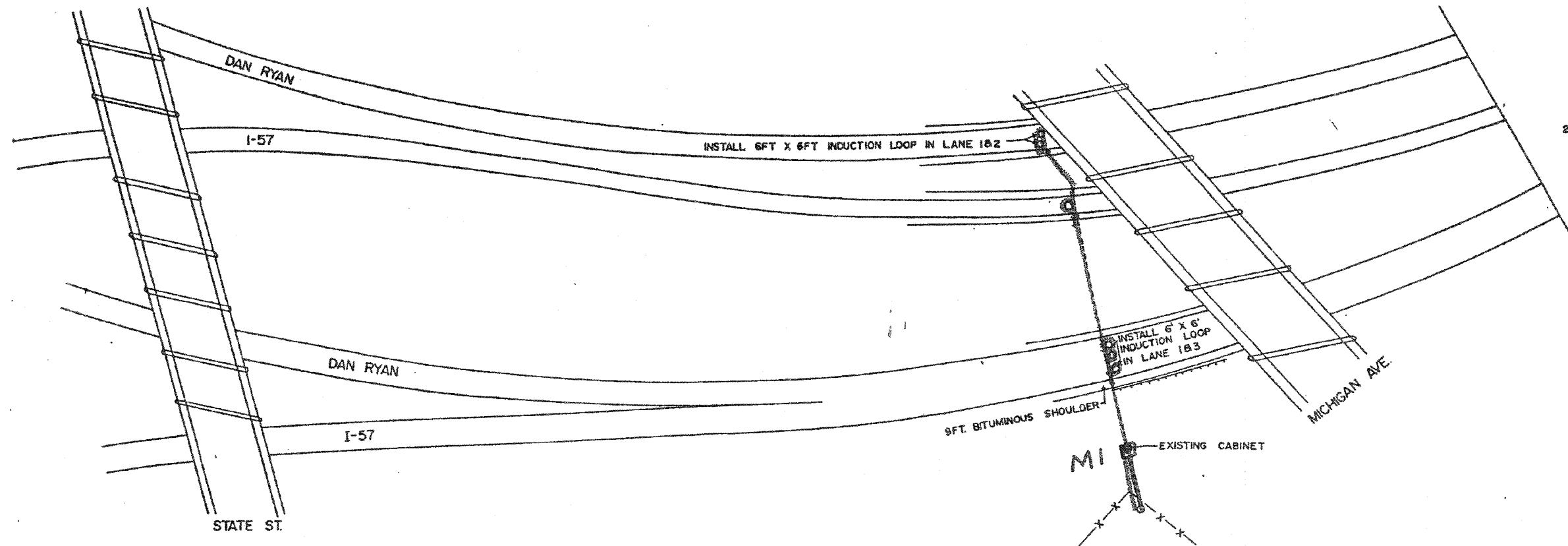
FOR INFORMATION ONLY

STATE OF ILLINOIS  
DIVISION OF HIGHWAYS  
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

99TH PLACE INSTALLATION  
RHODES ST. INSTALLATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1315RS-4	COOK	167	158

CONTRACT NO. 60C08

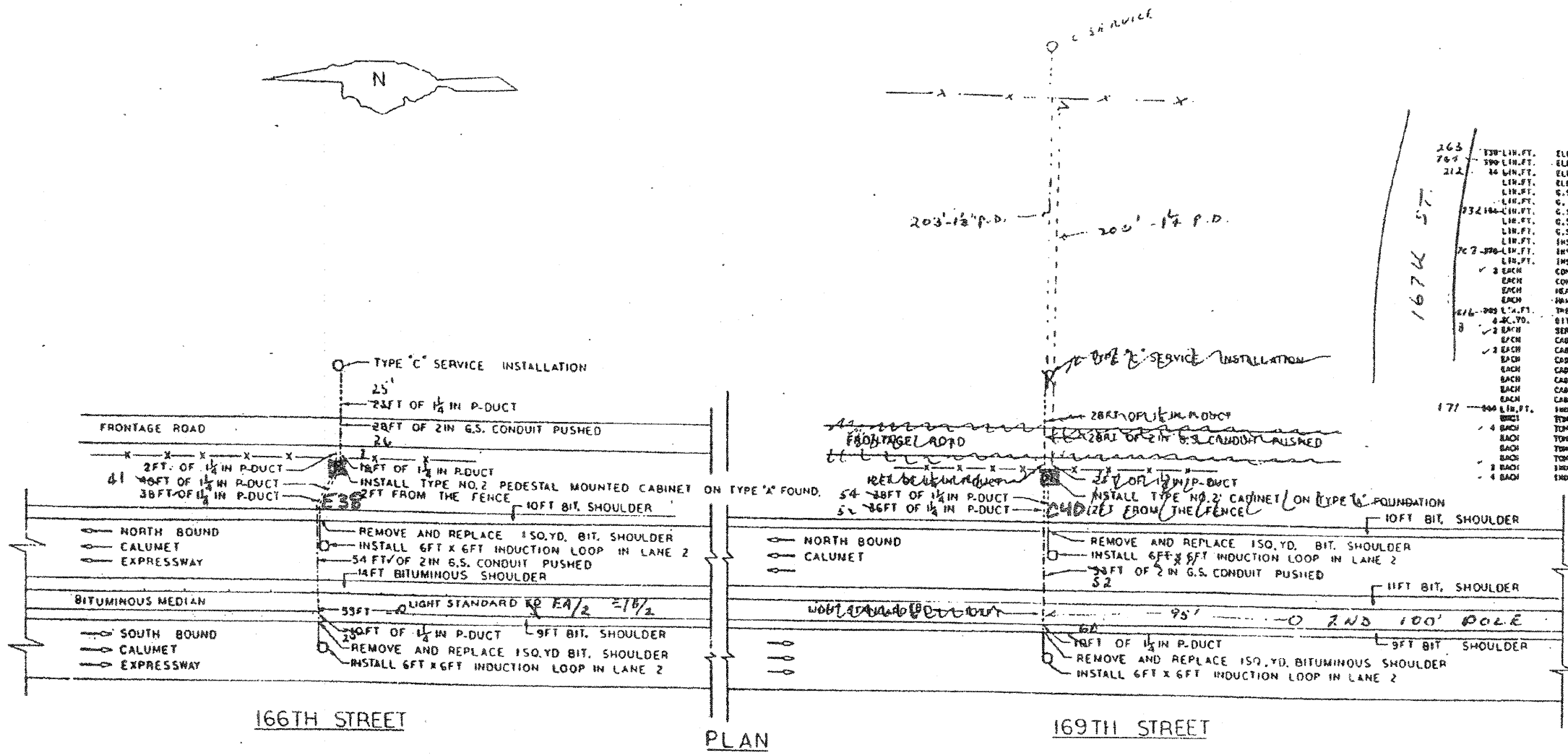


- LEGEND**
- INDUCTION LOOP
  - CABINET
  - ⊠ JUNCTION BOX
  - FULL POINT
  - SERVICE INSTALLATION
  - ⊙ HANDHOLE
  - P-DUCT
  - G.S. CONDUIT
  - - - FENCE
  - - - GUARD RAIL

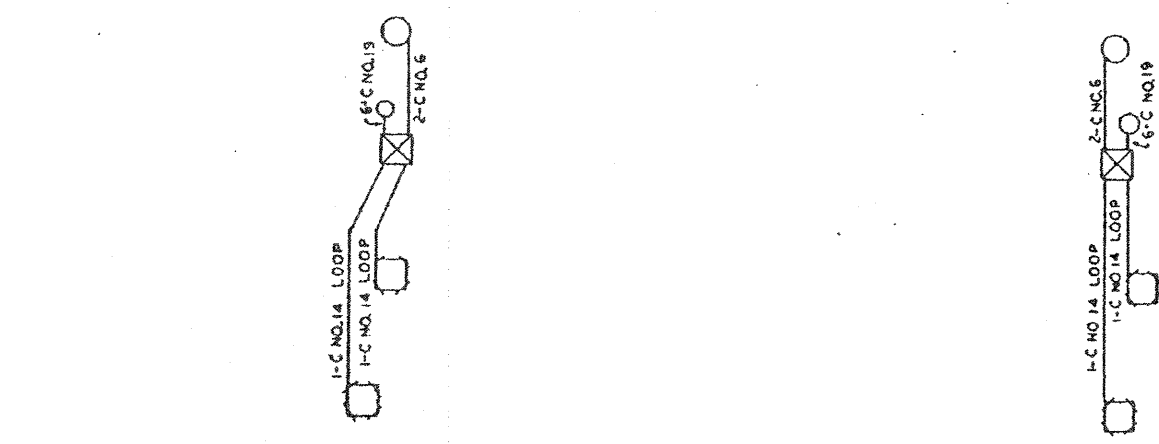
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
**MICHIGAN AVE.  
 INSTALLATION**  
 DATE: 1/87 DRAWN BY: SVW

FILE NAME = D160C88-159-TRAFFIC SURVEILLANCE.dgn	USER NAME = dvoznitski	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94) TRAFFIC SURVEILLANCE</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - DMW, CDS	REVISED -			94	(0312-708W, ETC. & 1315RS-4)	COOK	167	159	
		CHECKED -	REVISED -			CONTRACT NO. 60C08					
		DATE - 2/6/2009	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
					SCALE: N/A	SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.		



PLAN



WIRING DIAGRAM

SCHEDULE OF QUANTITIES

263	120 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 4, 2/C
764	590 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 14, 1/C
212	14 LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 15, 1/C
	LIN. FT.	ELECTRICAL CABLE IN CONDUIT, NO. 11, 12/C
	LIN. FT.	G.S. CONDUIT IN TRENCH, 1-1/2"
	LIN. FT.	G.S. CONDUIT IN TRENCH, 2"
732164	LIN. FT.	G.S. CONDUIT, PUSHER, 2"
	LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 1-1/2"
	LIN. FT.	G.S. CONDUIT ATTACHED TO STRUCTURE, 2"
707	200 LIN. FT.	INSTALL TELEPHONE DUCT
	LIN. FT.	INSTALL POLYETHYLENE DUCT, 1-1/2"
	LIN. FT.	INSTALL POLYETHYLENE DUCT, 2"
	EACH	CONCRETE FOUNDATION, TYPE 4
	EACH	CONCRETE FOUNDATION, TYPE D
	EACH	HEAVY DUTY H-HOLE
	EACH	HANDHOLE
416	200 LIN. FT.	TRENCH AND BACKFILL
	2 AC. YD.	BITUMINOUS CONCRETE SURFACE REMOVAL AND REPLACEMENT
	EACH	SERVICE INSTALLATION, TYPE C
	EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 1
	EACH	CABINET HOUSING EQUIPMENT, PEDESTAL MOUNTED, E.S.P. 2
	EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 1
	EACH	CABINET HOUSING EQUIPMENT, POLE MOUNTED, E.S.P. 2
	EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 1
	EACH	CABINET HOUSING EQUIPMENT, ATTACHED TO STRUCTURE, E.S.P. 2
171	400 LIN. FT.	INDUCTION LOOP
	4 EACH	TYPE EQUIPMENT 3 FREQUENCY TRANSMITTER
	4 EACH	TYPE EQUIPMENT 3 FREQUENCY MINIATURE TRANSMITTER
	4 EACH	TYPE EQUIPMENT 3 FREQUENCY REFLECTOR
	4 EACH	TYPE EQUIPMENT POWER SUPPLY
	4 EACH	TYPE EQUIPMENT MOUNTING FRAME
	4 EACH	INDUCTION LOOP DETECTOR POWER SUPPLY
	4 EACH	INDUCTION LOOP DETECTOR SENSOR UNIT

- LEGEND
- INDUCTION LOOP
  - CABINET
  - ⊗ JUNCTION BOX
  - ⊙ PULL POINT
  - SERVICE INSTALLATION
  - ⊙ HANDHOLE
  - DUCT
  - - - CONDUIT
  - x-x FENCE
  - GUARD RAIL

FOR INFORMATION ONLY

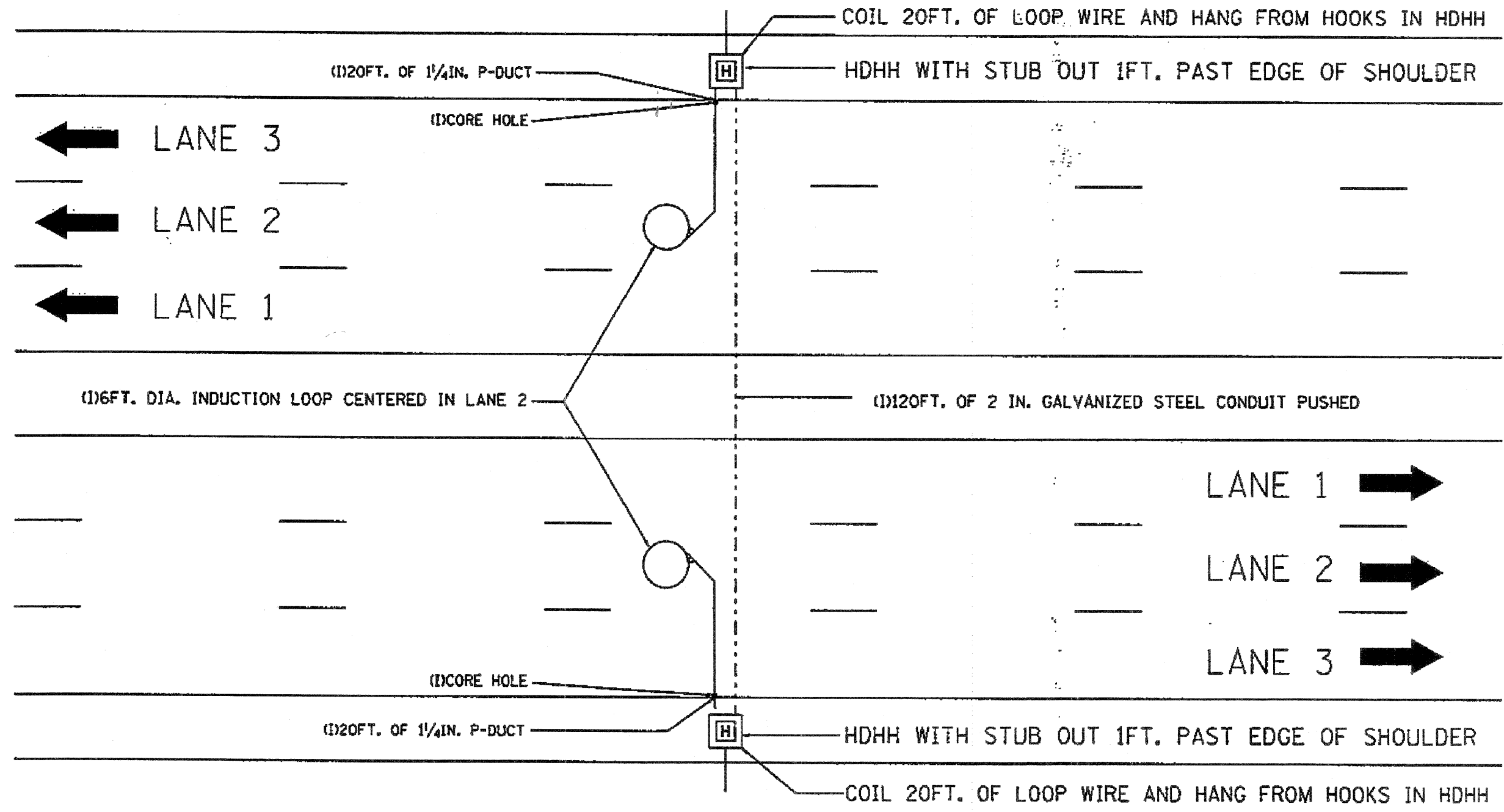
(C314-721-18E1) & (2426-721-18E1)

STATE OF ILLINOIS  
DIVISION OF HIGHWAYS  
CHICAGO AREA EXPRESSWAY SURVEILLANCE PROJECT

166TH AND 169TH ST. INSTALLATIONS

ROUTE NO.	SECTION	COUNTY	TOTAL S. FEET	SHEET NO.
FAT 94 800	4	COOK	40	161
DRAWN BY	DATE	SCALE	BY	DATE
PSC	MAY 30 1971	P.O. 1	JMCO	

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	161
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(0312-708W, ETC. & 1315RS-4				



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

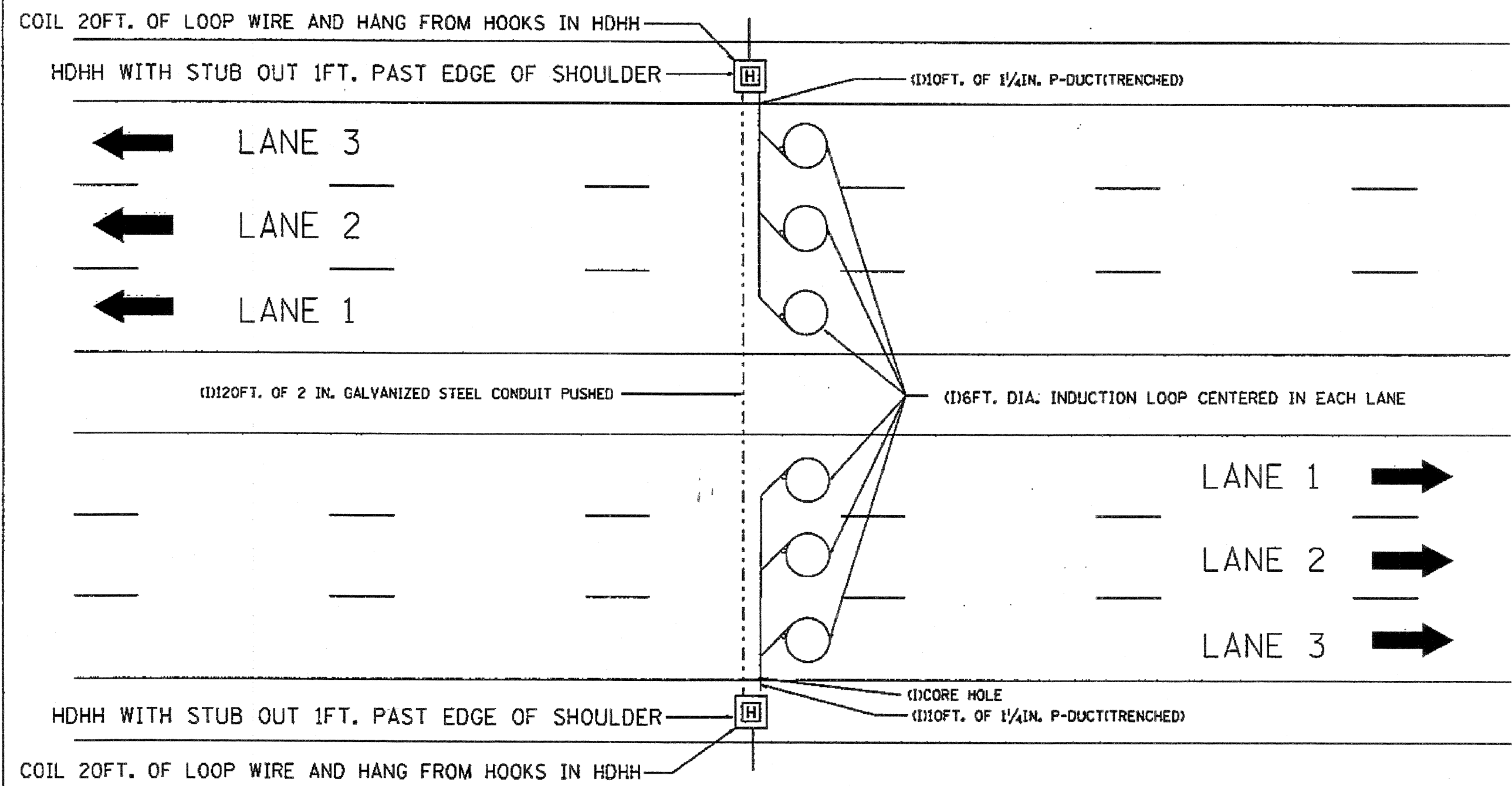
INSTALL AT STATIONS.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		ONE LANE COUNT STATION
SCALE: VERT. NONE	DATE: 01-31-07	DRAWN BY: E.A. CHECKED BY: J.G.

D:\60C08-161-DISTRICT DETAILS.dgn

F.A.L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	162
STA. _____		30 STA. _____		
FED. ROAD DIST. NO. . . . . ILLINOIS FED. AID PROJECT				

• (0405,ETC,42-7&0707RS-11



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

INSTALL AT STATIONS.

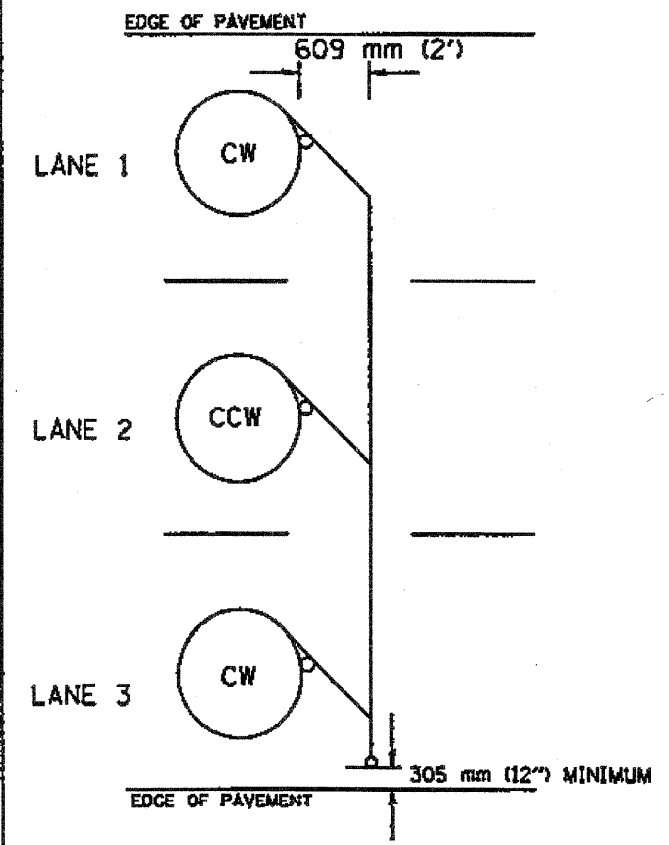
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		3 LANE COUNT STATION
SCALE: VERT. NONE HORIZ. _____		DRAWN BY: C.A.
DATE: 01-31-07		CHECKED BY: J.C.

D:\60008-162-DISTRICT DETAILS.dgn

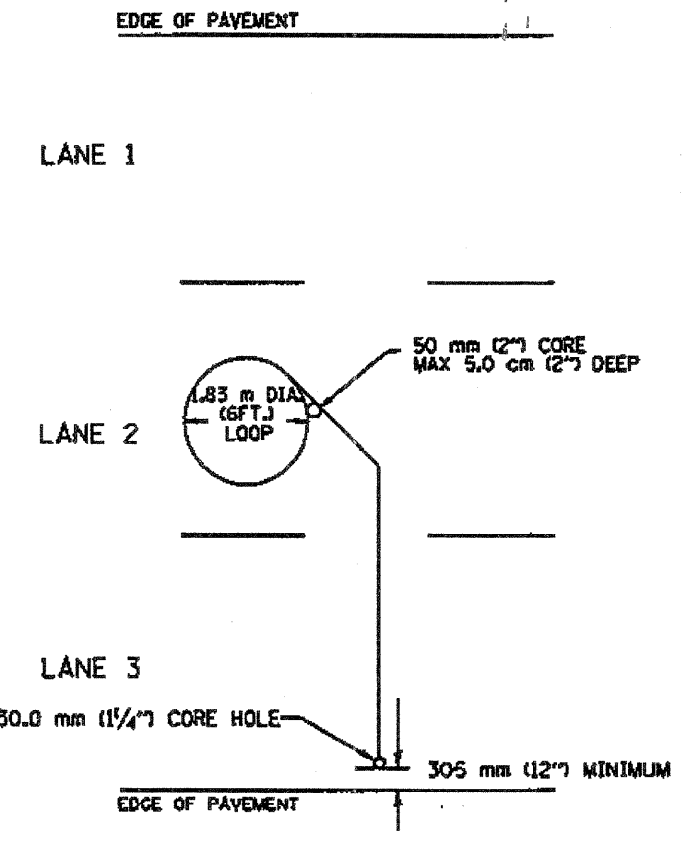


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	163
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		

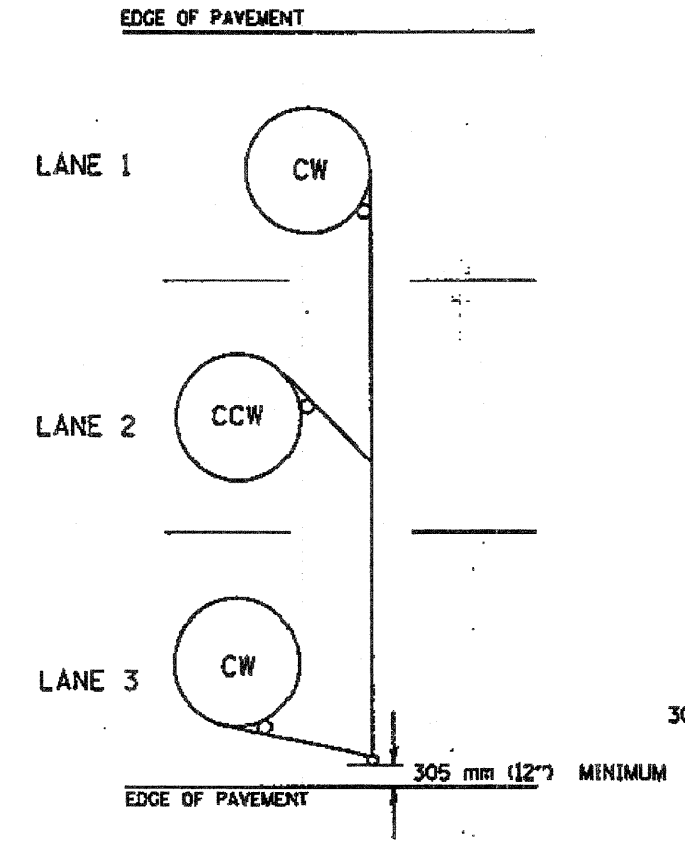
0312-708W, ETC. & 1315RS-4



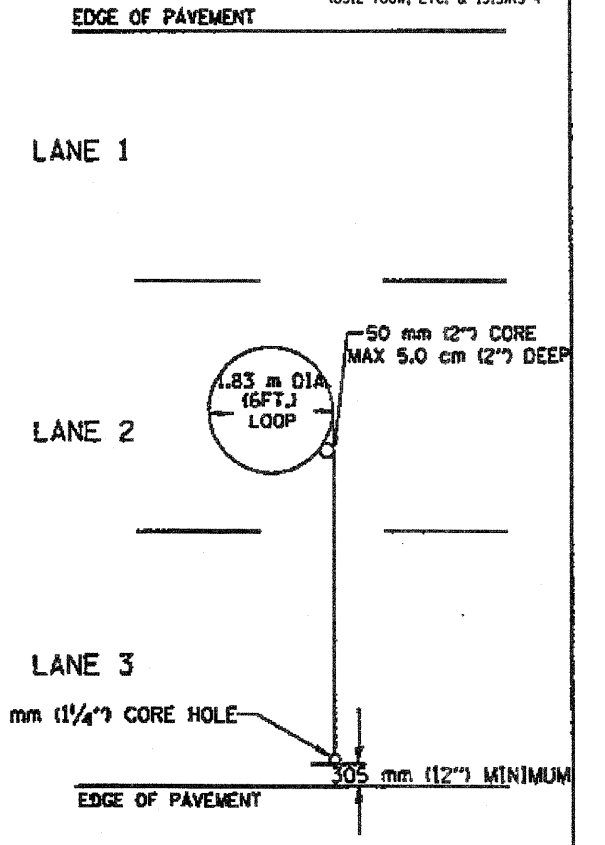
TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY



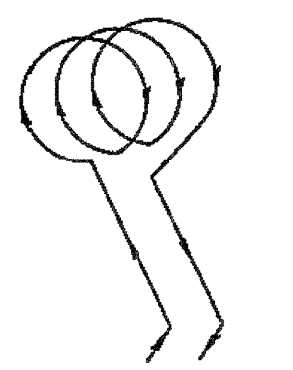
TYPICAL 1.83 m (6') DIA. INDUCTION LOOP LAYOUT FOR LANE 2



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



TYPICAL 1.83 m (6') 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 45 m (150FT.) 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.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER <b>EXISTING ROUND LOOP INSTALLATION</b>
NAME	DATE	
R.L.	6/94	SCALE: VERT. NONE DATE: 6-22-94
T.C.	9/96	
		DRAWN BY: G.M. CHECKED BY: R.L.

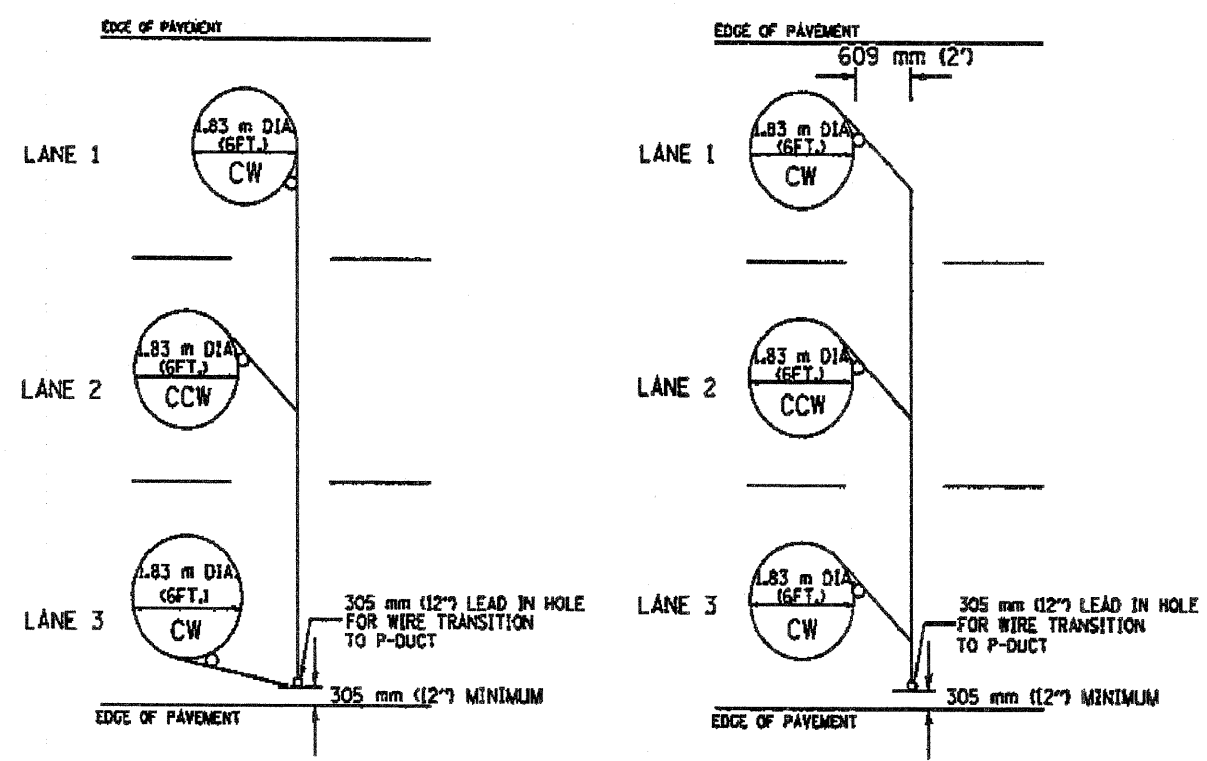
D:\60C08-163-DISTRICT DETAILS.dgn

NO. TYPNET.DGN

VI-481

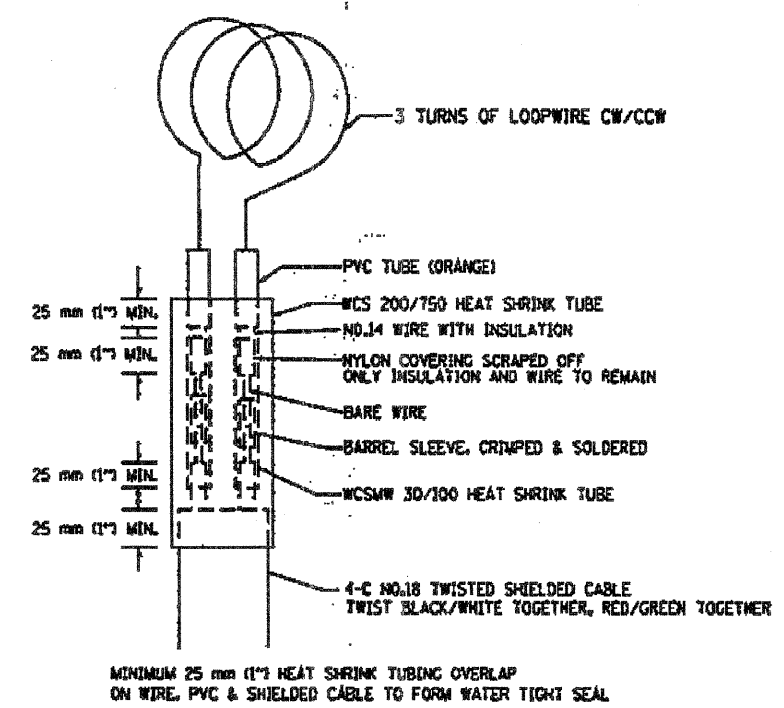
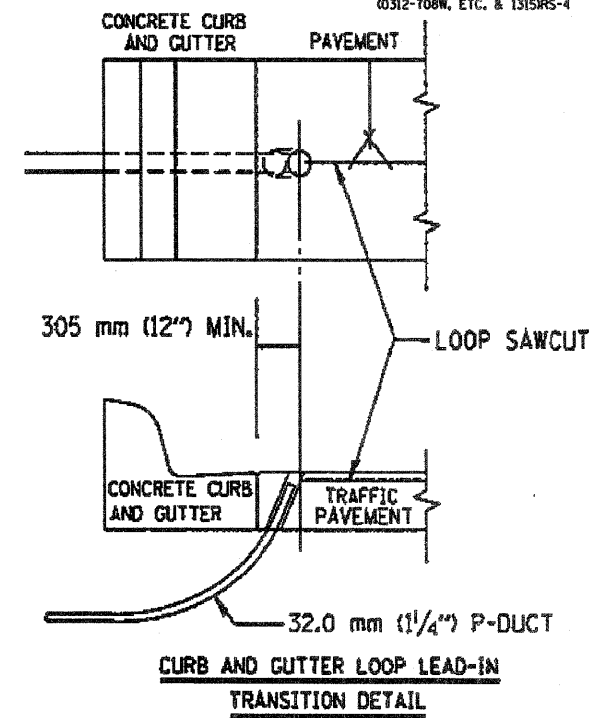
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS
34	COOK	167	164
STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT	

0312-708W, ETC. & 1315RS-4



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

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



**LOOP SPLICING REQUIREMENTS**

- NOTES**
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) 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.

REVISIONS	
NAME	DATE
R.L.	6/94
T.C.	10/96

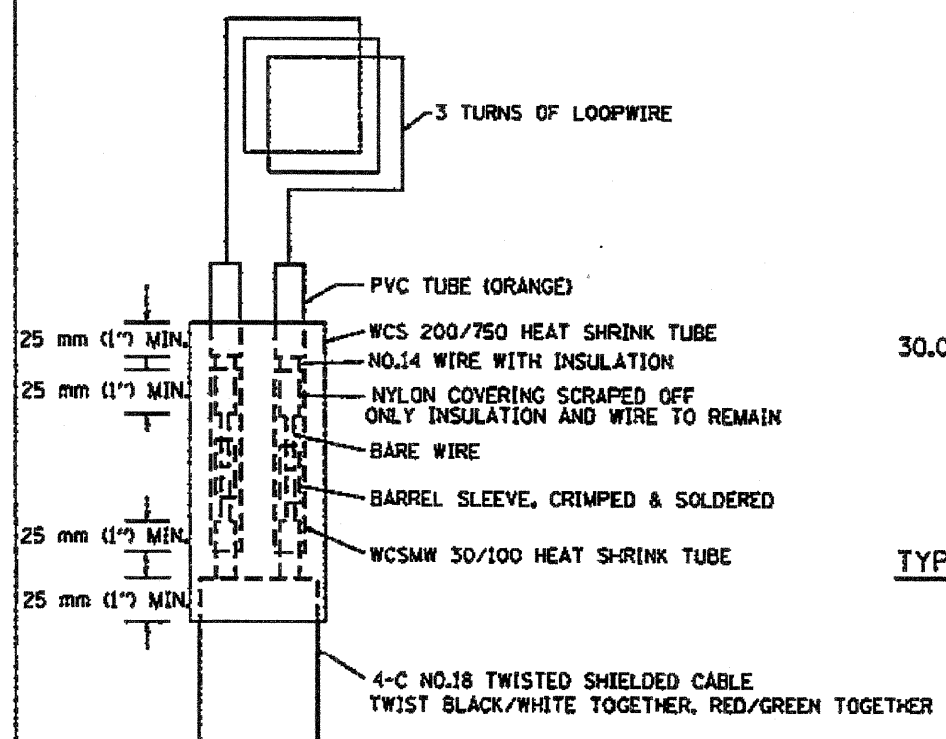
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
**EXISTING ROUND INDUCTION LOOP TYPICALS**  
SCALE: VERT. NONE  
DATE: 6-22-94  
DRAWN BY: G.M.  
CHECKED BY: R.L.

D:\60C08-164-DISTRICT DETAILS.dgn

RD TYPICAL.DGN

VI-4182

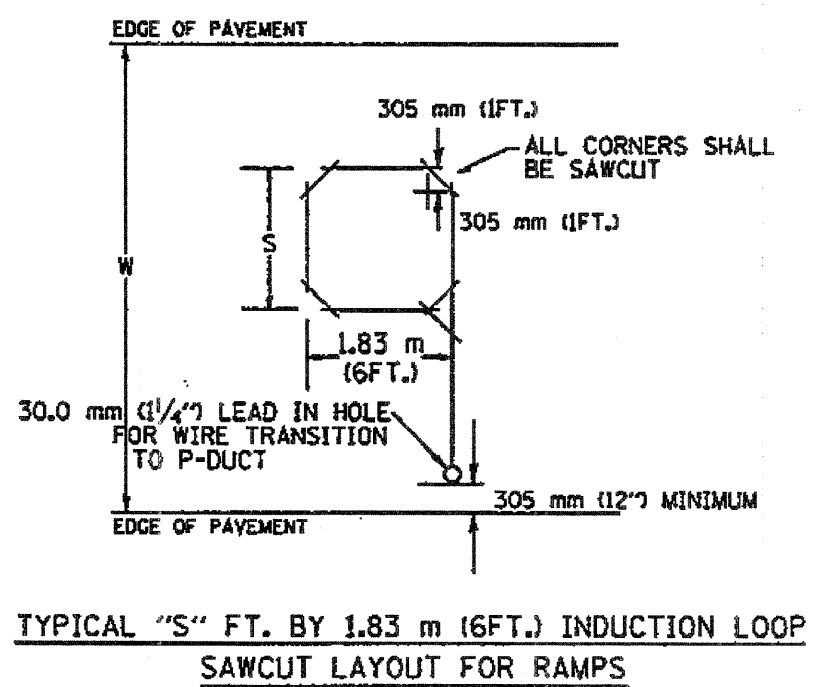
F.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	161	165
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
(0312-708W, ETC. & 1315R5-4)				



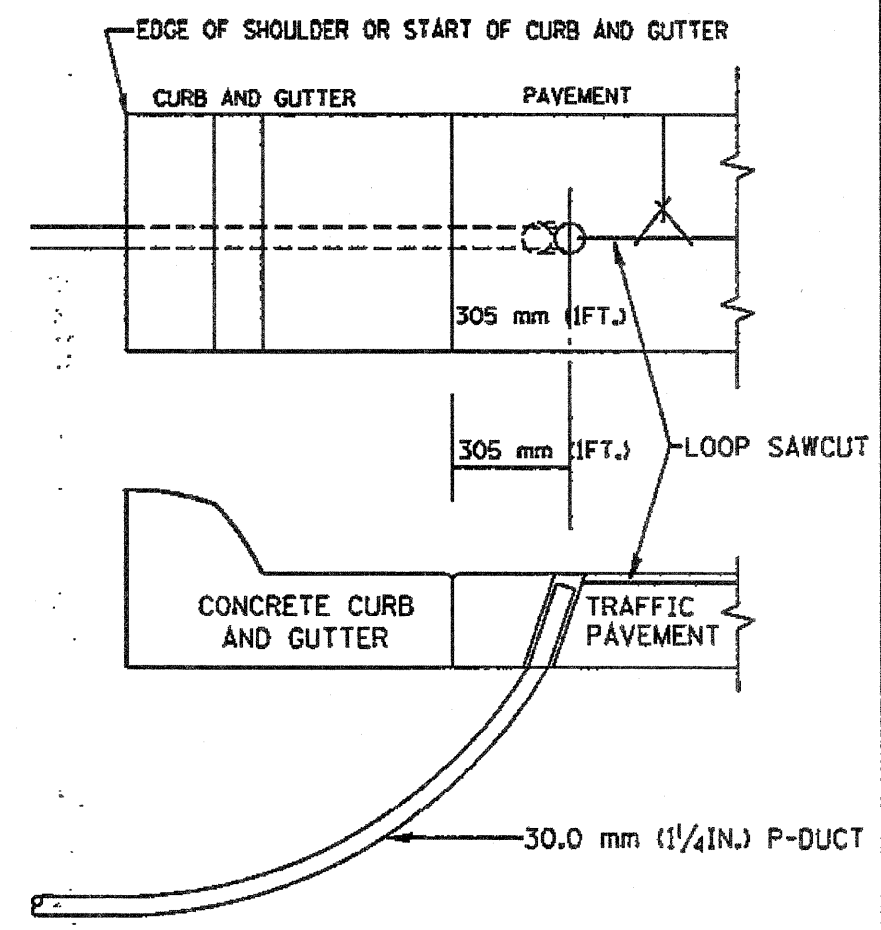
MINIMUM 25 mm (1") HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

**LOOP SPLICING REQUIREMENTS**

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



**TYPICAL "S" FT. BY 1.83 m (6FT.) 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 45 m (150FT.) 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.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER
NAME	DATE	
R.L.	6/94	RECTANGULAR INDUCTION LOOP TYPICAL
T.C.	11/95	
R.L.	05/96	
T.C.	10/96	
SCALE: VERT. NONE HORIZ. NONE		DATE: 6-22-94
DRAWN BY: G.M.		CHECKED BY: R.L.

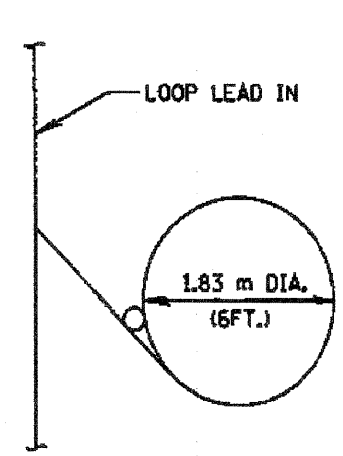
D:\60C08-165-DISTRICT DETAIL.S.dgn

NO-TYPING.DWG

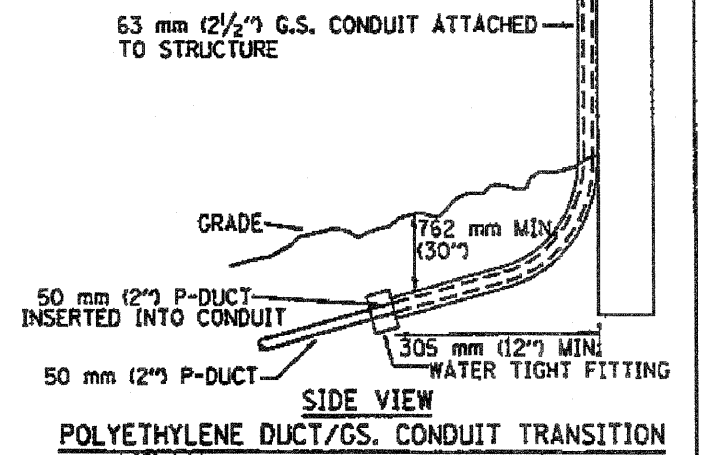
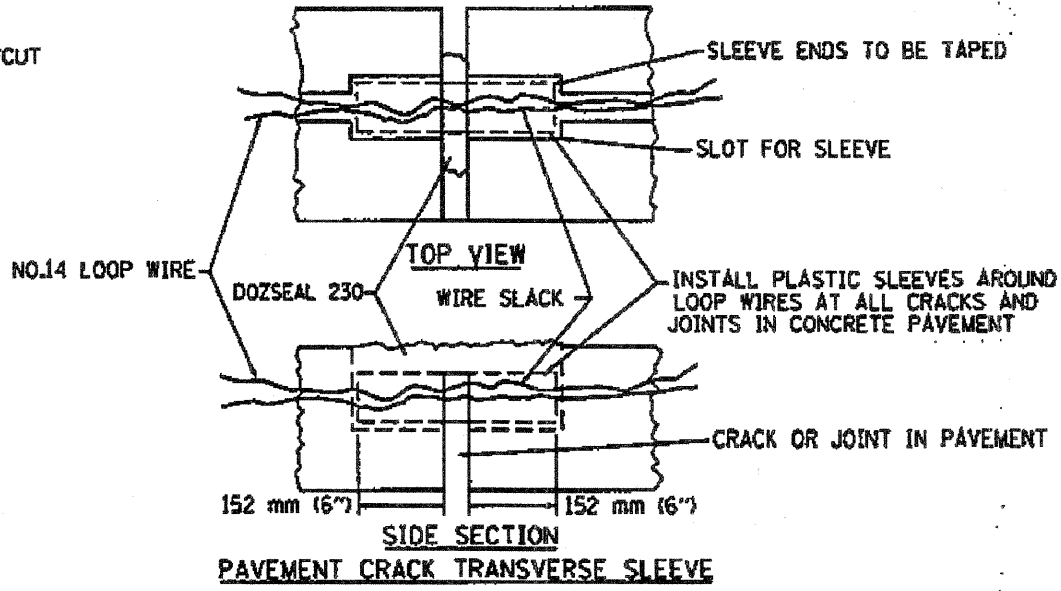
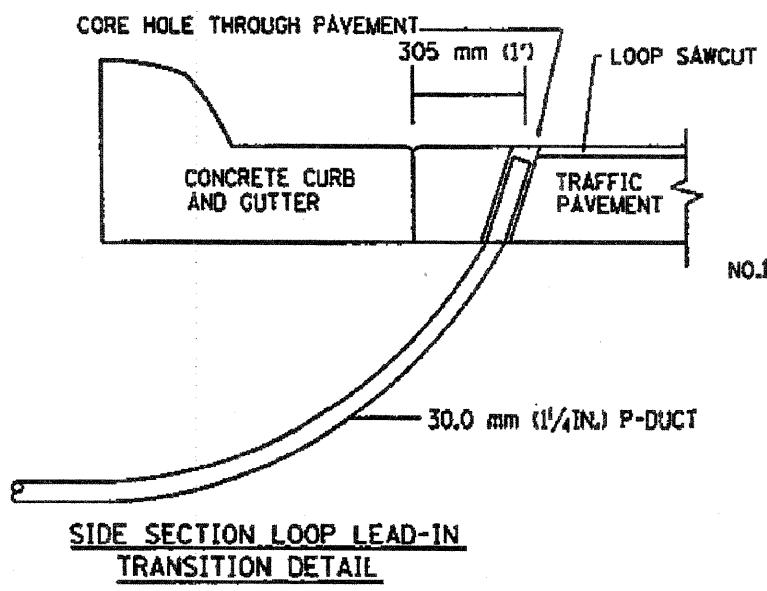
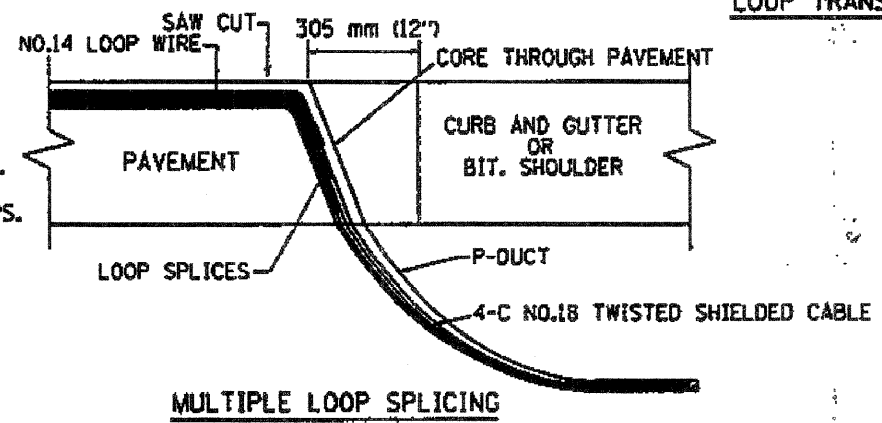
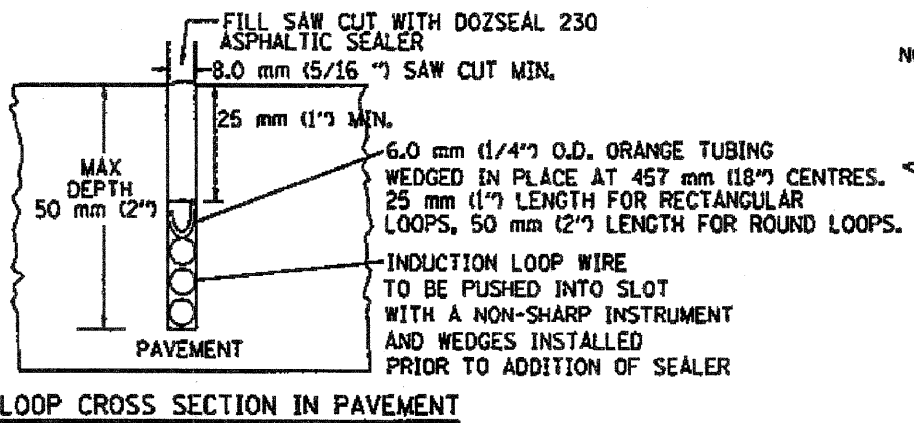
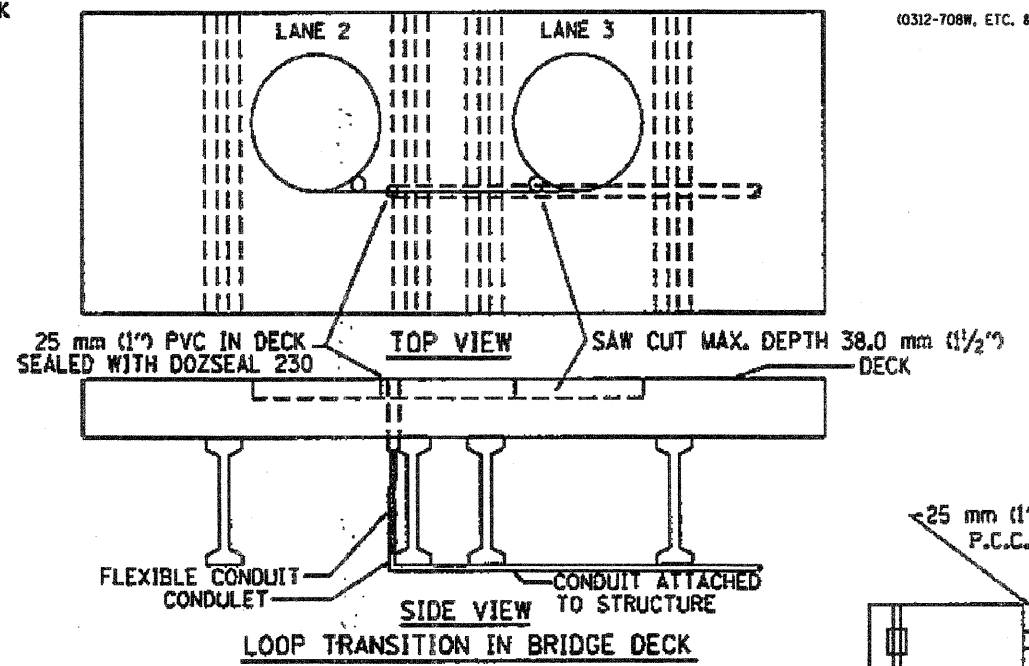
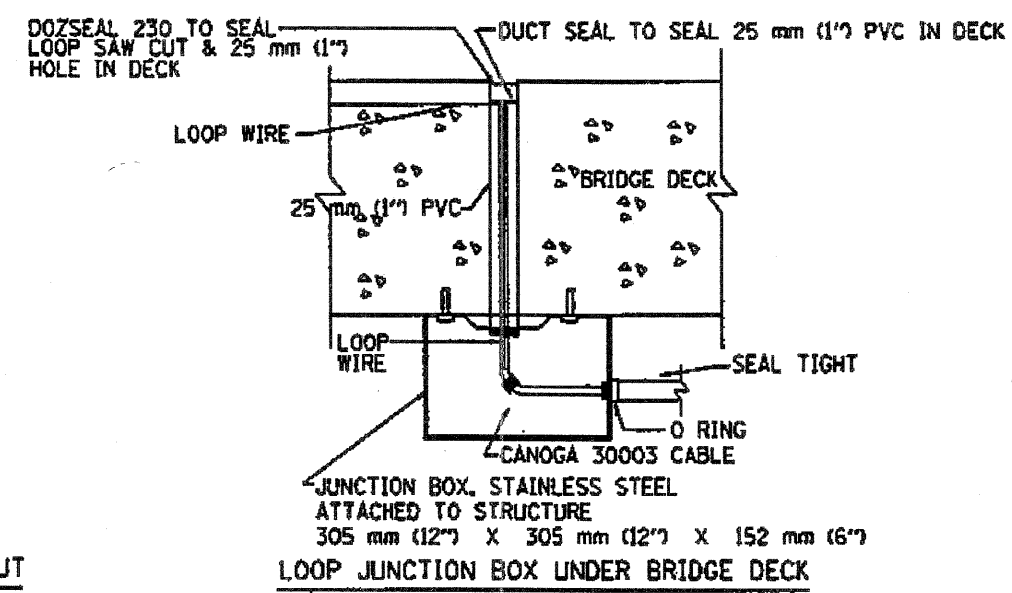
VI-082

FED. AID RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	COOK		167	166
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		

(0312-708W, ETC. & 1315RS-4)



TYPICAL LOOP SAWCUT LAYOUT



REVISIONS	
NAME	DATE
RL	6/91
RL	3/93
T.E.	11/93
RL	03/96
T.E.	10/96

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

**LOOP, CONDUIT & DUCT  
INSTALLATION DETAILS**

SCALE: VERT. NONE  
HORIZ. NONE

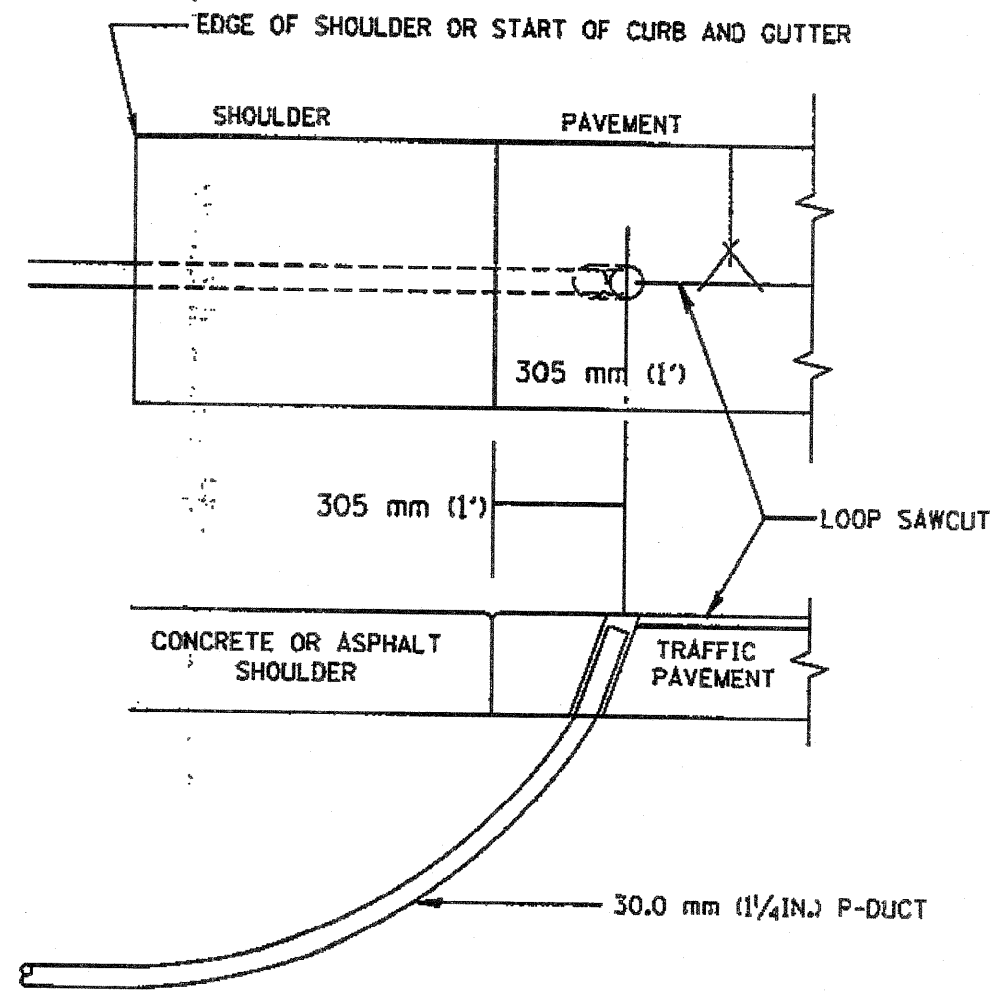
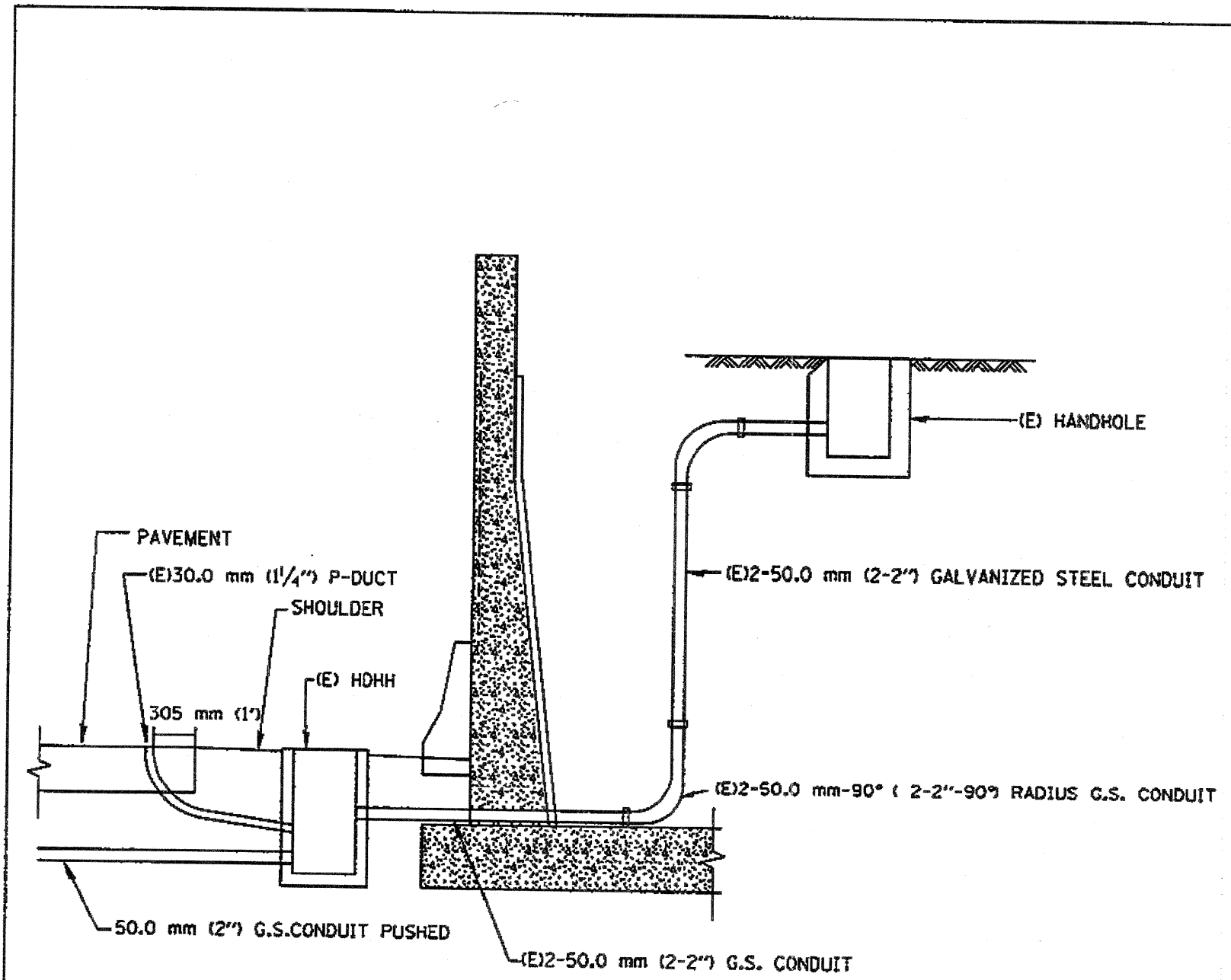
DATE: 6-23-94

DRAWN BY: G.M.  
CHECKED BY: R.L.

D:\60C08-166-DISTRICT DETAILS.dgn

NO. 11/19/94/1000  
11-084

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	167	167
STA.		TO STA.		
ILLINOIS FED. AID PROJECT				
(0312-708W, ETC. & 1315RS-4				



SHOULDER LOOP LEAD-IN  
TRANSITION DETAIL

REVISIONS	
NAME	DATE
R.L.	8/98
T.C.	11/98
R.L.	05/96
T.C.	10/96

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
TYPICAL INDUCTION LOOP LEAD-IN  
TRANSITION DIAGRAMS  
SCALE: VERT. NONE  
DATE 8-22-94  
DRAWN BY: G.L.  
CHECKED BY: R.L.

D:\60C08-167-DISTRICT DETAILS.dgn

NO-TYPMET.DGN

VI-4185