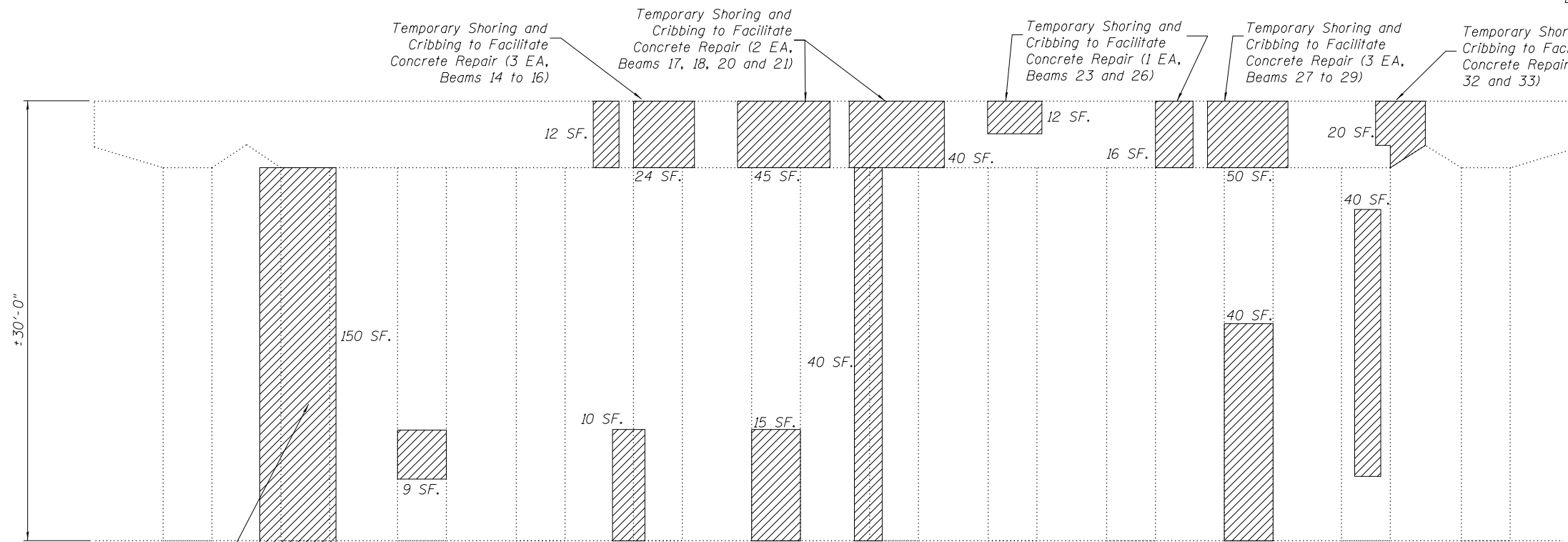


**PIER 7 SOUTH ELEVATION**  
(Looking North)

*Note:*  
Beams are numbered East to West.



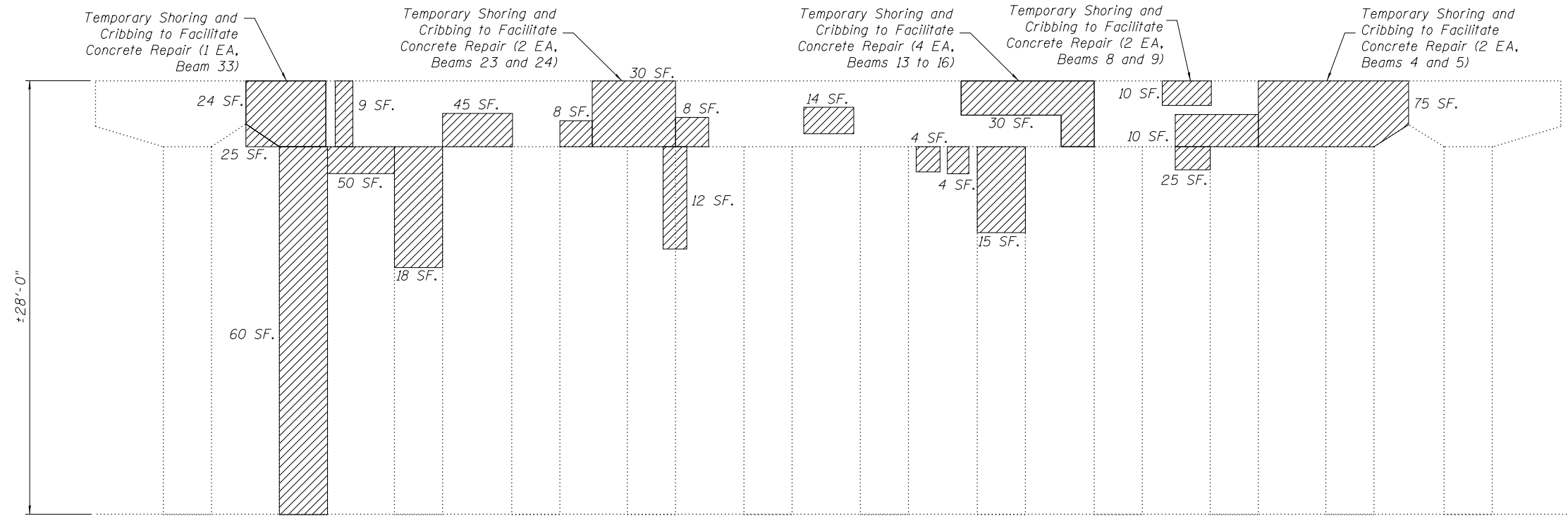
**PIER 7 NORTH ELEVATION**  
(Looking South)

PIER 6 GIRDER REACTION TABLE		
	Span 6	Span 7
R <sub>DL</sub> (k)	50.7	50.7
R <sub>SDL</sub> (k)	14.6	14.6
R <sub>LL</sub> (k)	36.8	36.8
R <sub>T</sub> (k)	9.2	9.2
R <sub>Total</sub> (k)	111.3	111.3

*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

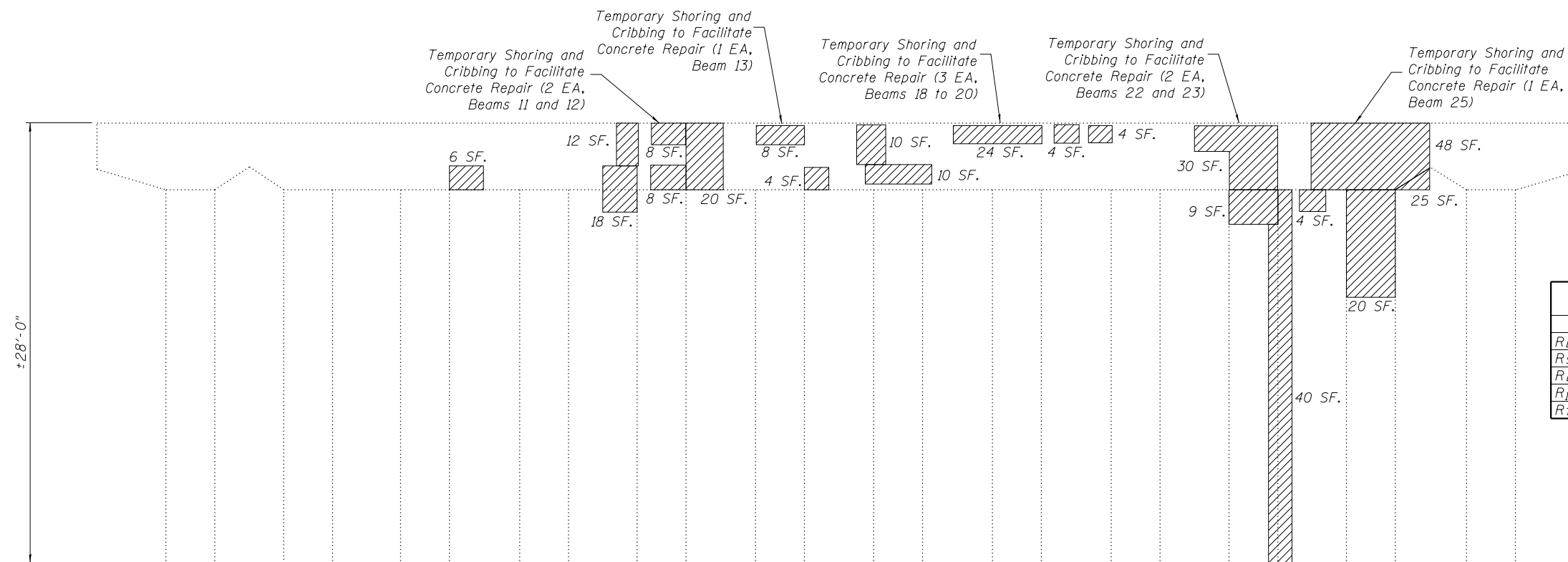
**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1185
	Temporary Shoring and Cribbing	Each	27



**PIER 8 SOUTH ELEVATION**

(Looking North)



**PIER 8 NORTH ELEVATION**

(Looking South)

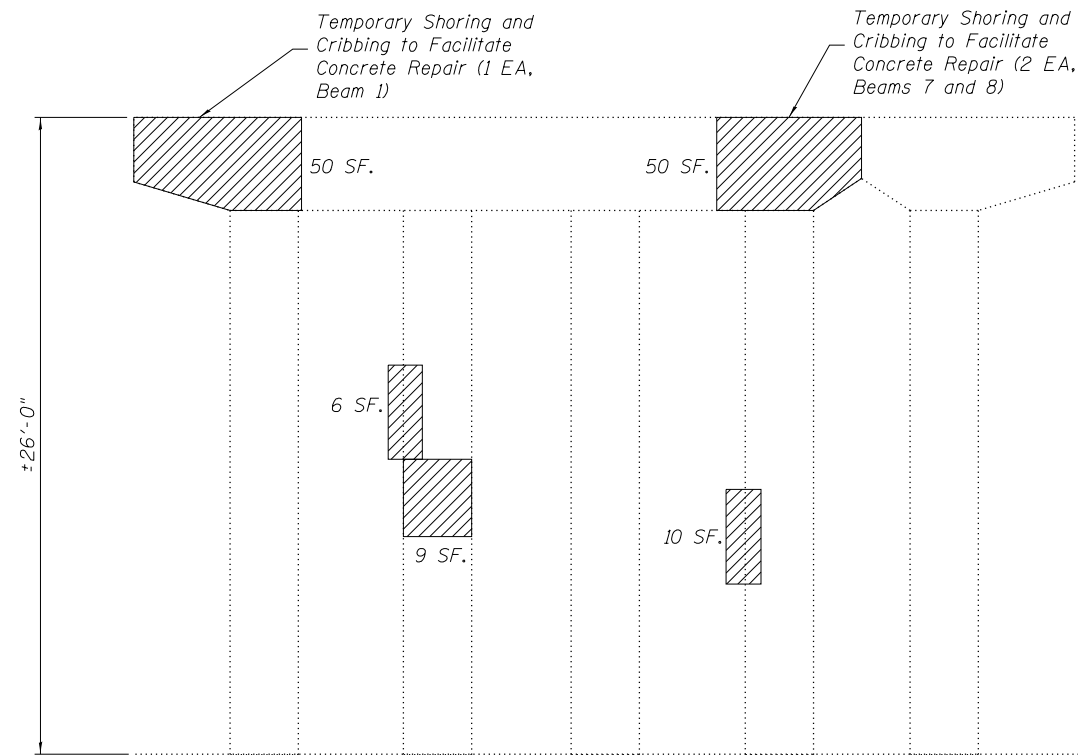
*Note:*  
Beams are numbered East to West.

PIER 8 GIRDER REACTION TABLE			
	Span 8	Span 9	Span 10
$R_{DL}$ (k)	50.7	30.1	48.7
$R_{SDL}$ (k)	14.6	9.9	16.1
$R_{LL}$ (k)	36.8	42.3	47.4
$R_I$ (k)	9.2	12.7	12.6
$R_{Total}$ (k)	111.3	95.0	124.8

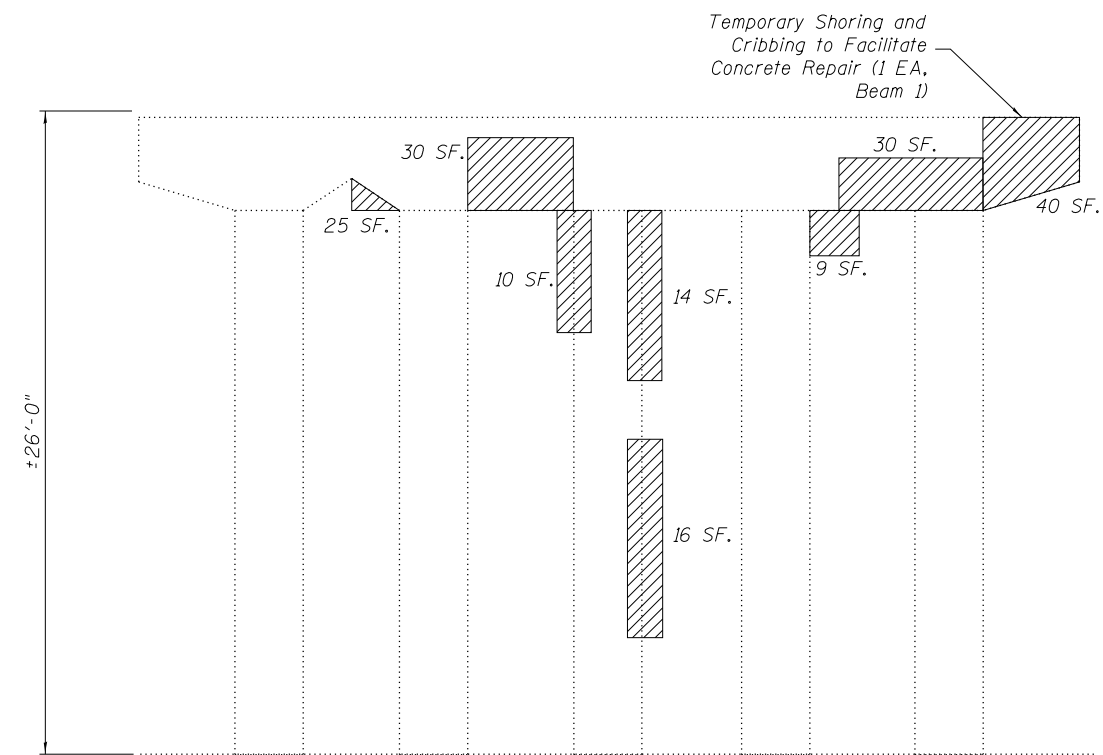
*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	788
	Temporary Shoring and Cribbing	Each	20



**PIER 9 NORTH ELEVATION**  
(Looking South)



**PIER 9 SOUTH ELEVATION**  
(Looking North)

*Note:*  
Beams are numbered East to West.

PIER 9 GIRDER REACTION TABLE		
	Span 9	Span 10
$R_{DL}$ (k)	30.1	48.7
$R_{SDL}$ (k)	9.9	16.1
$R_{LL}$ (k)	42.3	47.4
$R_T$ (k)	12.7	12.6
$R_{Total}$ (k)	95.0	124.8

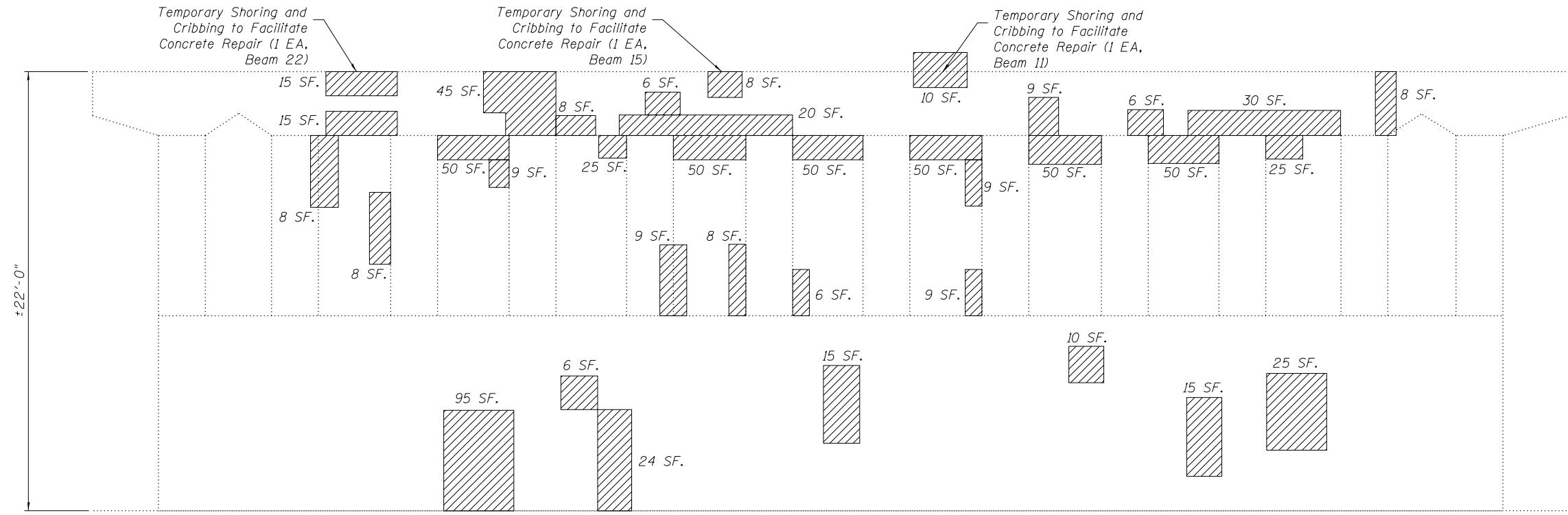
*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	299
	Temporary Shoring and Cribbing	Each	4

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - DR	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 79
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



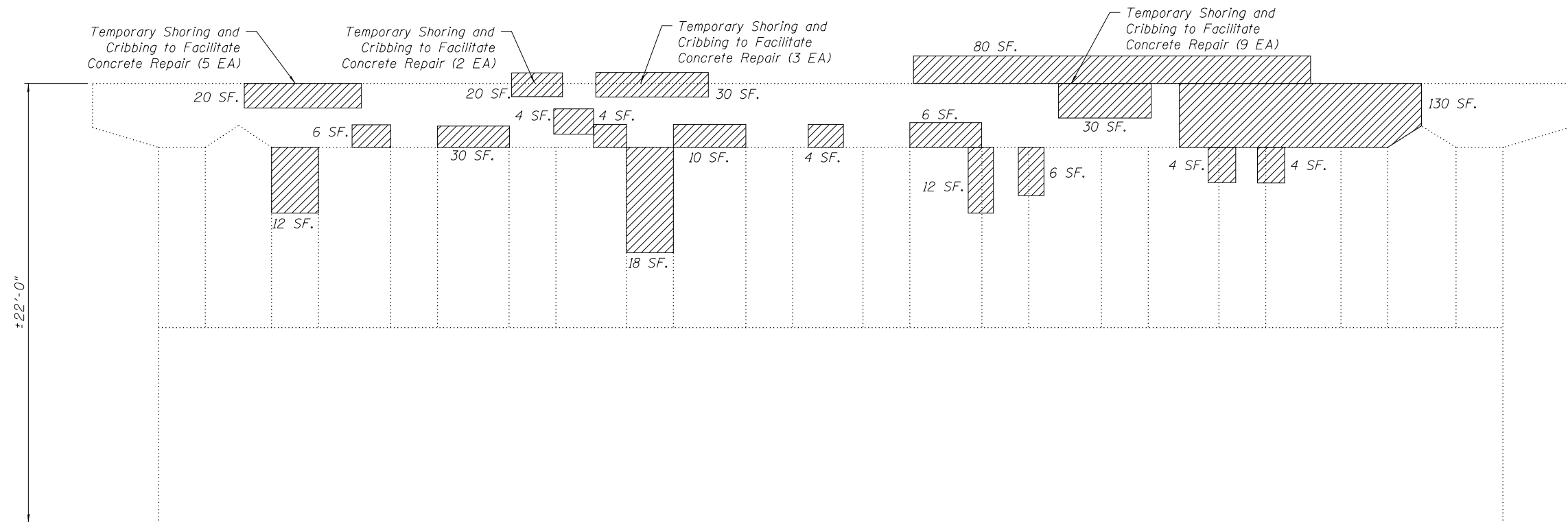
**PIER 10 SOUTH ELEVATION**

(Looking North)

*Note:*

Beams are numbered East to West.

The numbers of the beams to be shored along the North Face were not included in the inspection notes. A fence around the railroad prevented access.



**PIER 10 NORTH ELEVATION**


(Looking South)

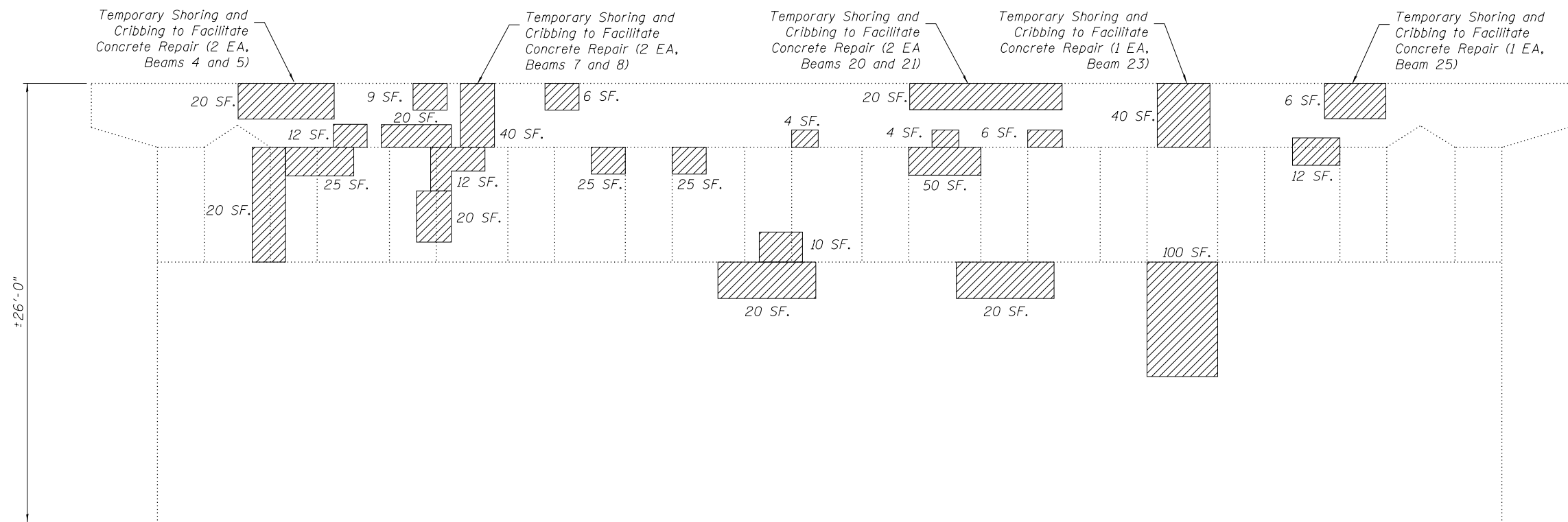
PIER 10 GIRDER REACTION TABLE		
	Span 10	Span 11
R <sub>DL</sub> (k)	48.7	24.7
R <sub>SDL</sub> (k)	16.1	8.2
R <sub>LL</sub> (k)	47.4	24.9
R <sub>T</sub> (k)	12.6	6.9
R <sub>Total</sub> (k)	124.8	64.7

*Note:*

Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	1216
	Temporary Shoring and Cribbing	Each	22



**PIER 11 NORTH ELEVATION**  
(Looking South)

*Note:*  
Beams are numbered East to West.

PIER 11 GIRDER REACTION TABLE			
	Span 11	Span 12	Span 13
$R_{DL}$ (k)	24.7	57.2	51.8
$R_{SDL}$ (k)	8.2	18.9	17.4
$R_{LL}$ (k)	24.9	48.6	47.9
$R_I$ (k)	6.9	12.2	12.5
$R_{Total}$ (k)	64.7	136.9	129.6

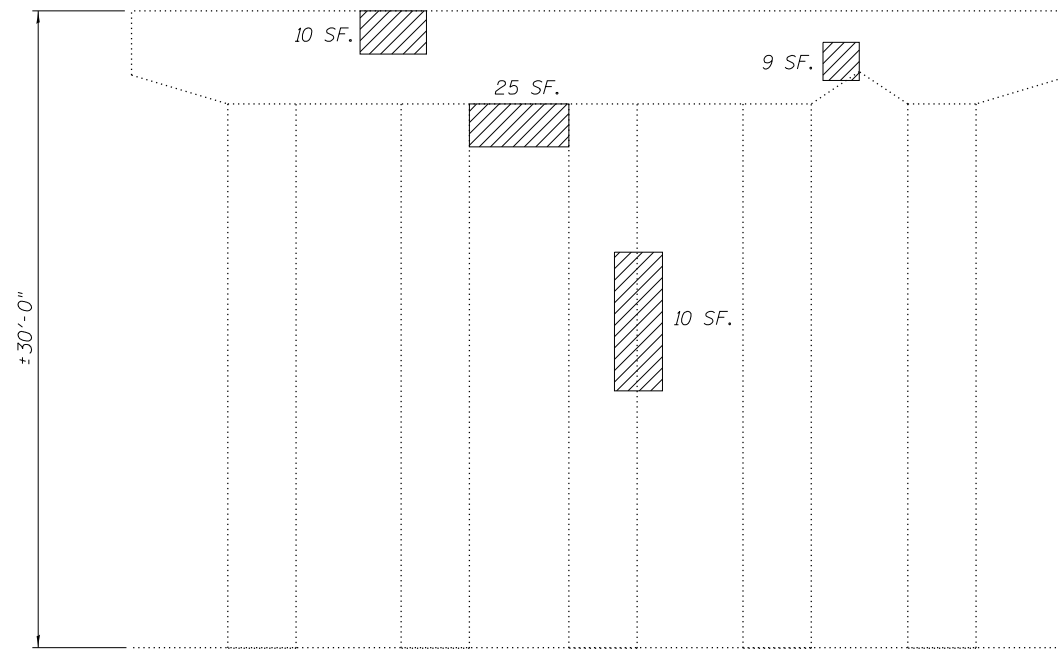
*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

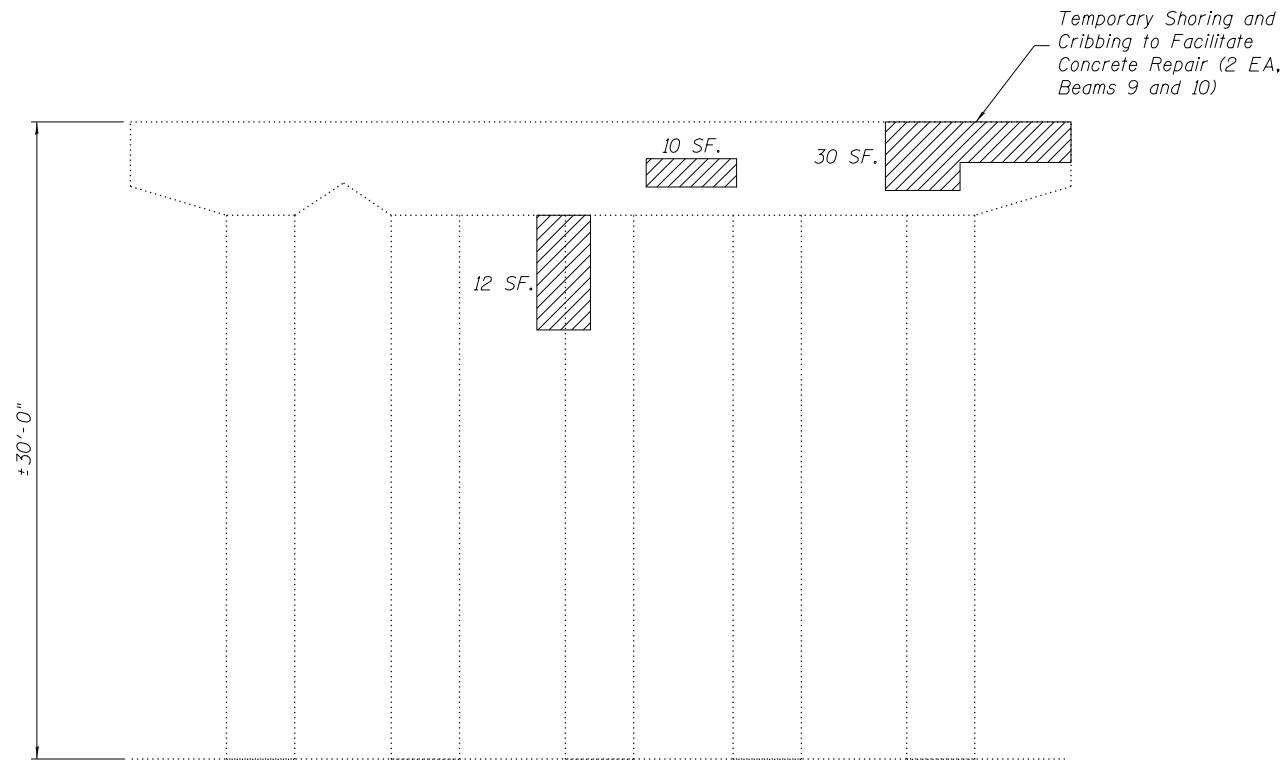
SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	526
	Temporary Shoring and Cribbing	Each	8

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 81
			CONTRACT NO. 60V58	
ILLINOIS FED. AID PROJECT				



**PIER 12 SOUTH ELEVATION**  
(Looking North)



**PIER 12 NORTH ELEVATION**  
(Looking South)

*Note:*  
Beams are numbered East to West.

PIER 12 GIRDER REACTION TABLE		
	Span 12	Span 13
R <sub>DL</sub> (k)	57.2	24.0
R <sub>SDL</sub> (k)	18.9	8.1
R <sub>LL</sub> (k)	48.6	38.9
R <sub>T</sub> (k)	12.2	11.7
R <sub>Total</sub> (k)	136.9	82.7

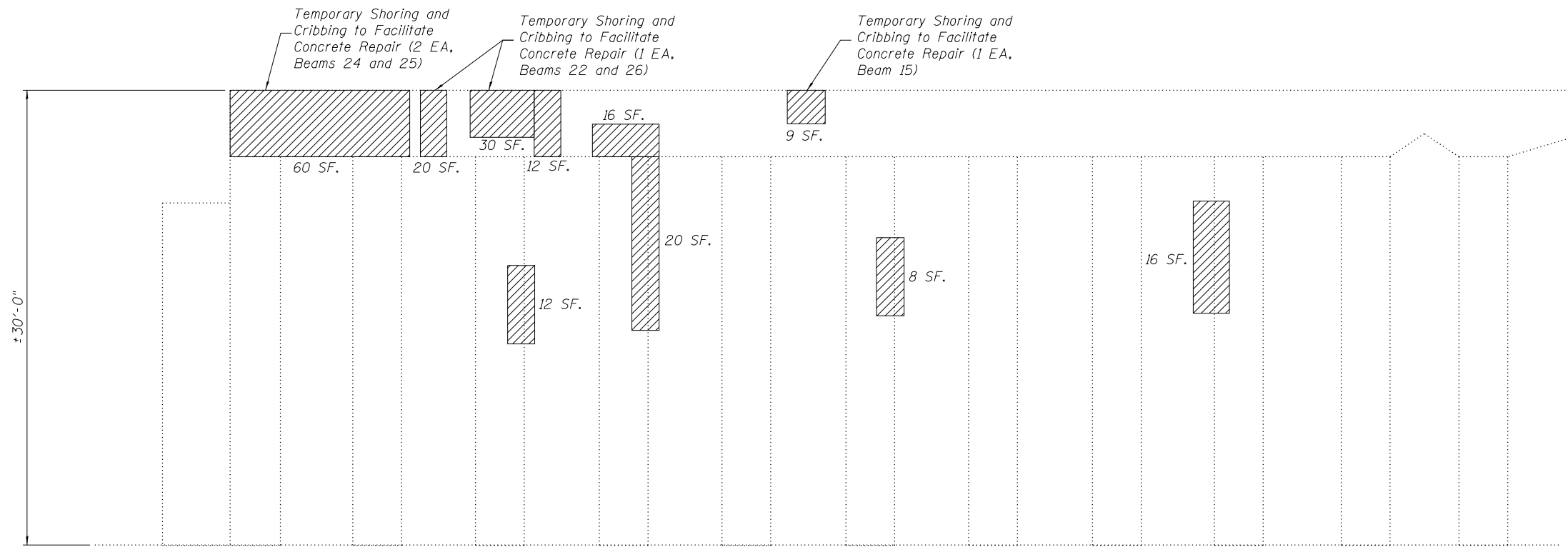
*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	106
	Temporary Shoring and Cribbing	Each	2

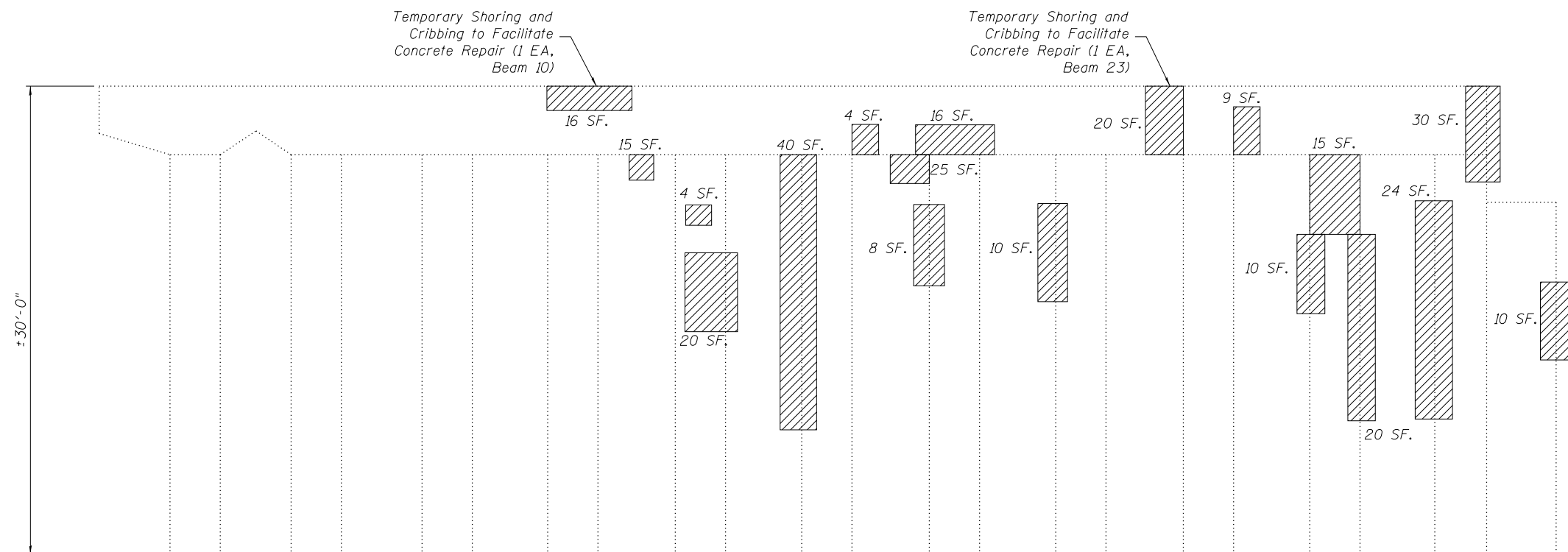
USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 82
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



**PIER 13 SOUTH ELEVATION**

(Looking North)



**PIER 13 NORTH ELEVATION**

(Looking South)

*Note:*

Beams are numbered East to West.

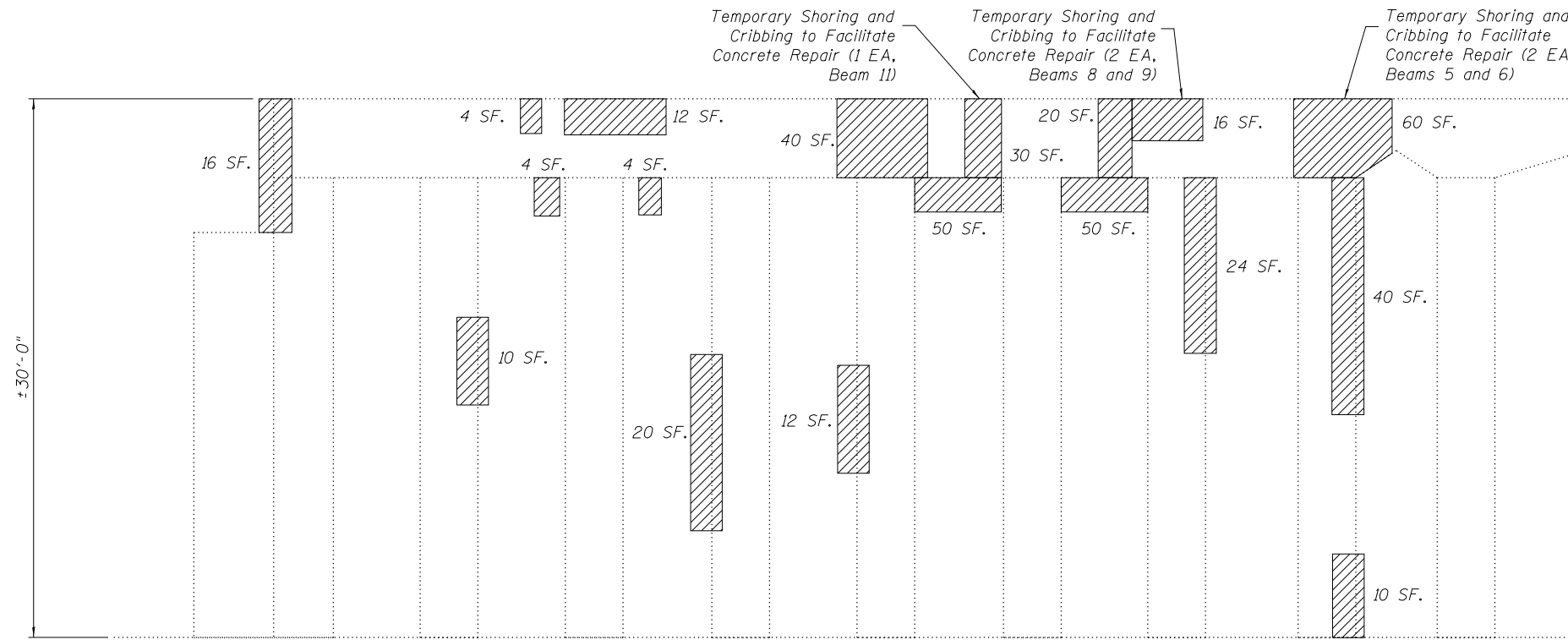
PIER 13 GIRDER REACTION TABLE			
	Span 13 NB	Span 13 SB	Span 14
$R_{DL}$ (k)	24.0	51.8	46.1
$R_{SDL}$ (k)	8.1	17.4	13.7
$R_{LL}$ (k)	38.9	47.9	37.6
$R_I$ (k)	11.7	12.5	9.8
$R_{Total}$ (k)	82.7	129.6	107.2

*Note:*

Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

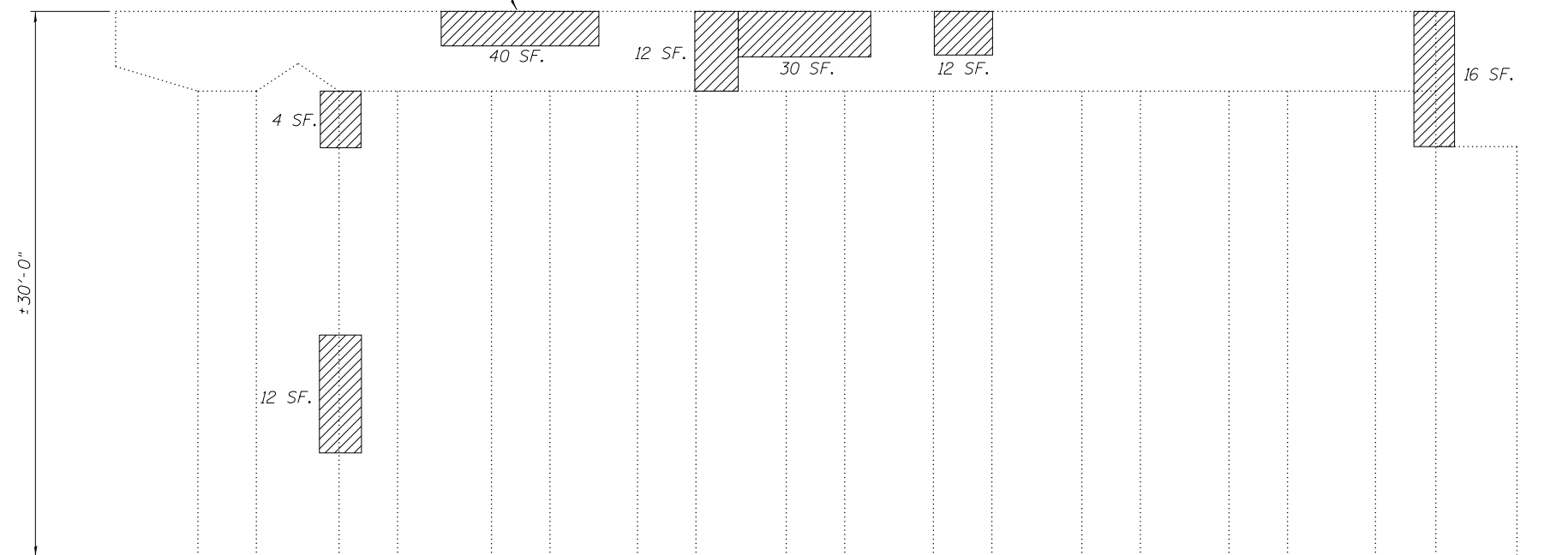
SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	499
	Temporary Shoring and Cribbing	Each	7



**PIER 14 SOUTH ELEVATION**

(Looking North)

Temporary Shoring and Cribbing to Facilitate Concrete Repair (2 EA, Beams 8 and 9)



**PIER 14 NORTH ELEVATION**

(Looking South)

*Note:*  
Beams are numbered East to West.

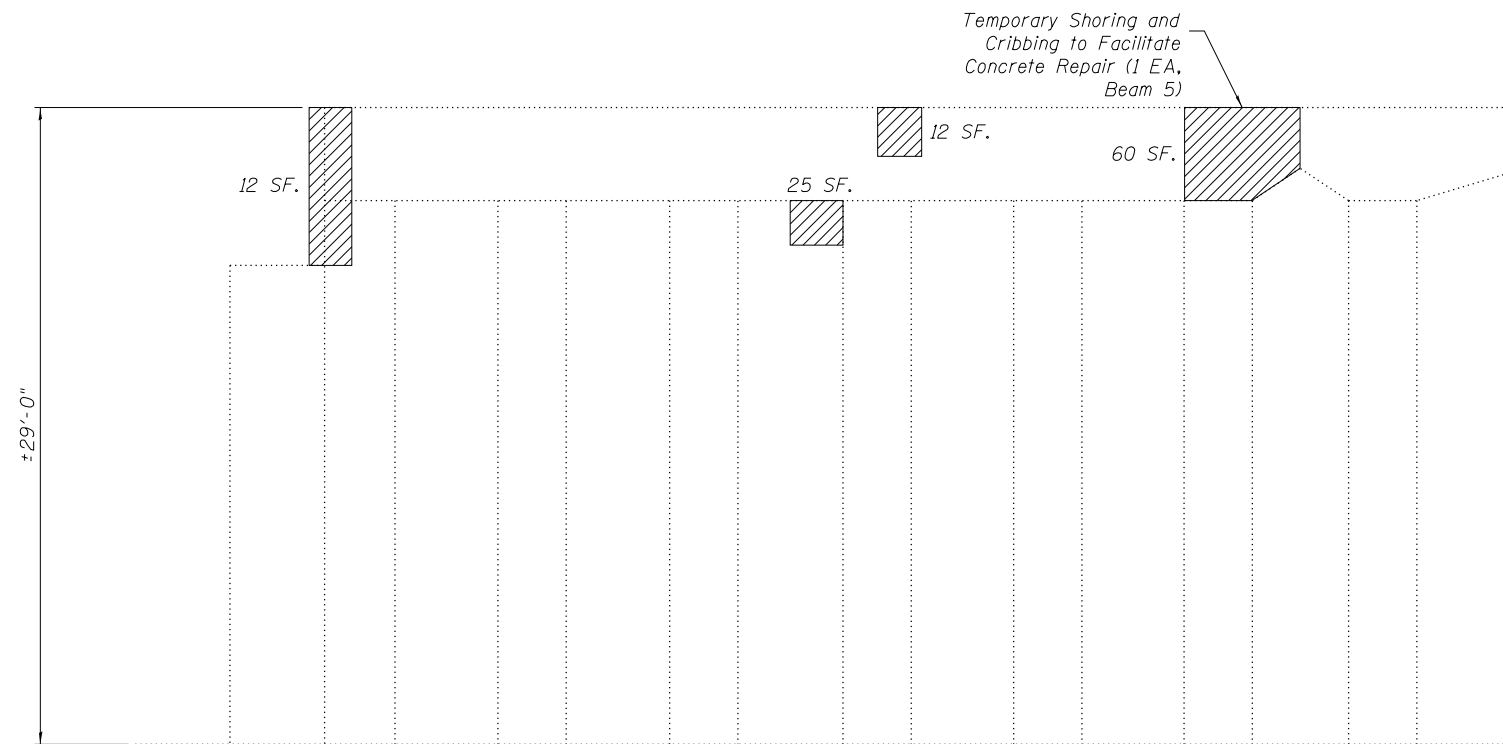
PIER 14 GIRDER REACTION TABLE		
	Span 14	Span 15
R <sub>DL</sub> (k)	46.1	46.1
R <sub>SDL</sub> (k)	13.7	13.7
R <sub>LL</sub> (k)	37.6	37.6
R <sub>T</sub> (k)	9.8	9.8
R <sub>Total</sub> (k)	107.2	107.2

*Note:*  
Due to variable girder type, spacing, and span, reactions provided are a general indication for the loads within the indicated span. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

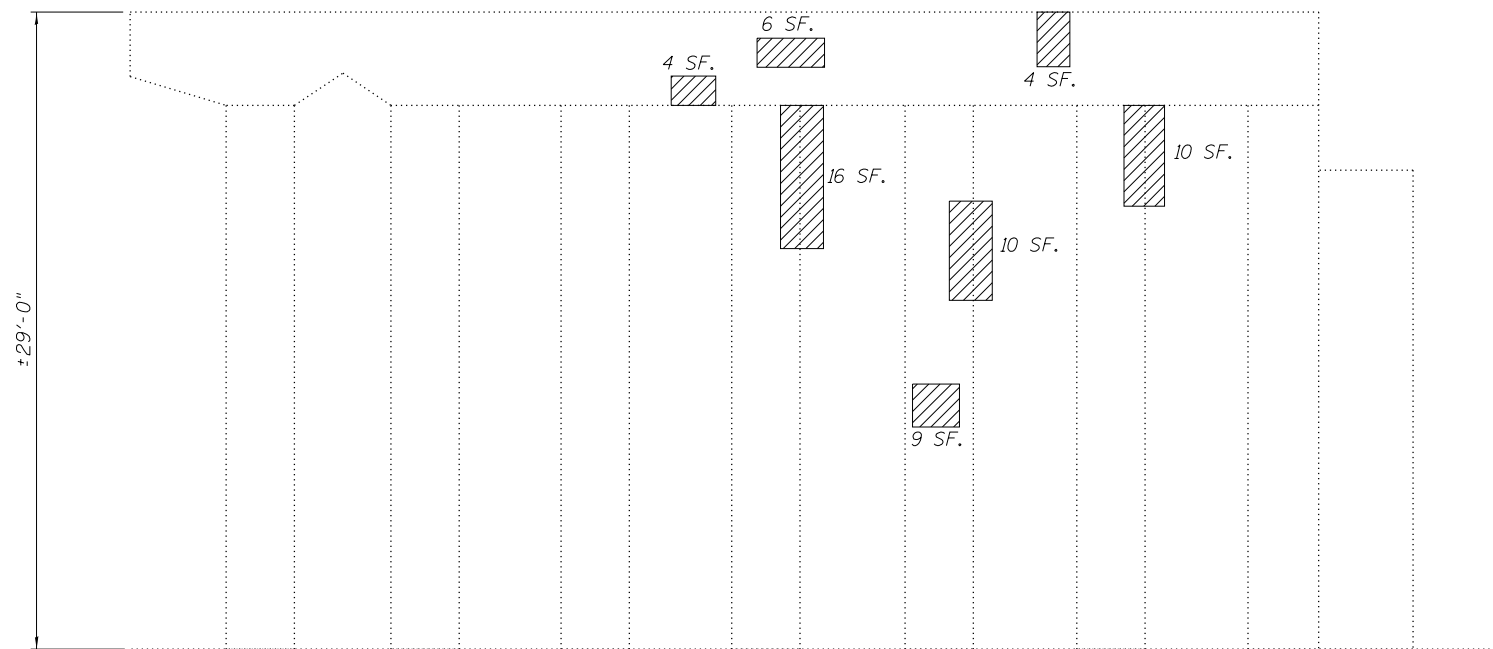
SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	548
	Temporary Shoring and Cribbing	Each	7





**PIER 15 SOUTH ELEVATION**  
(Looking North)

*Note:*  
Beams are numbered East to West.



**PIER 15 NORTH ELEVATION**  
(Looking South)

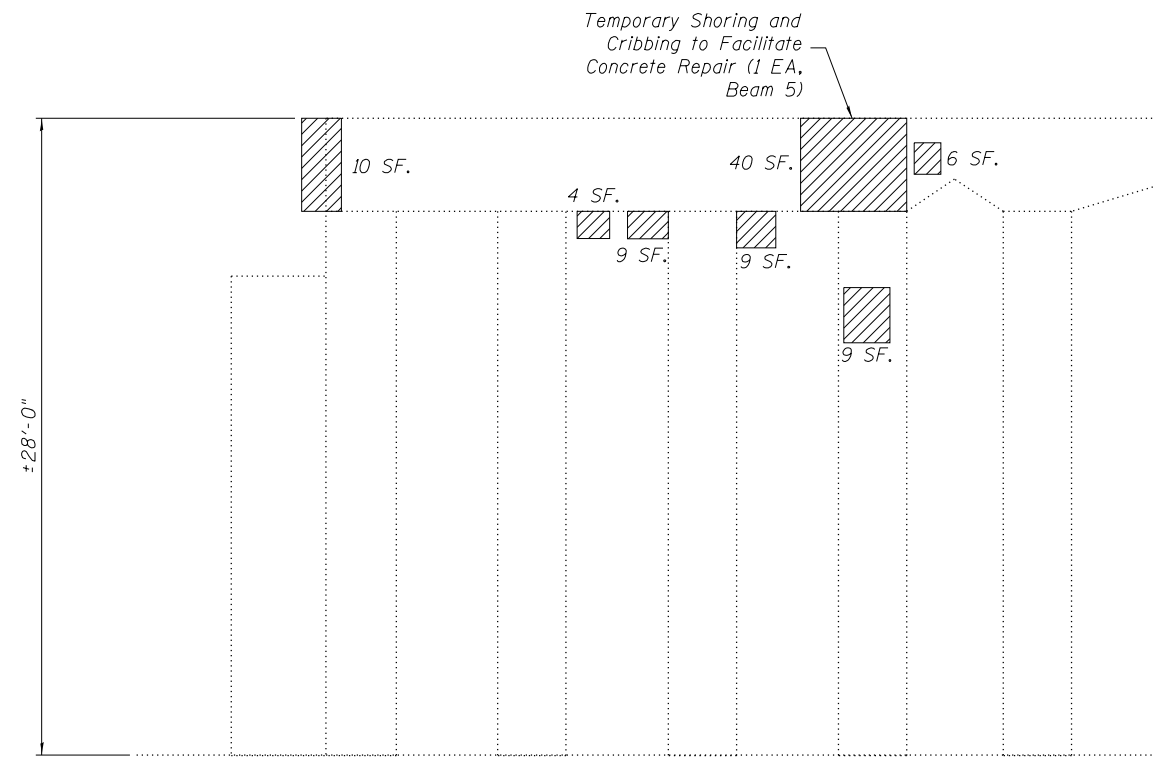
PIER 15 GIRDER REACTION TABLE		
	Span 15	Span 16
R <sub>DL</sub> (k)	46.1	46.1
R <sub>SDL</sub> (k)	13.7	13.7
R <sub>LL</sub> (k)	37.6	37.6
R <sub>T</sub> (k)	9.8	9.8
R <sub>Total</sub> (k)	107.2	107.2

*Note:*  
Due to variable girder type, spacing, and span, reactions provided are a general indication for the loads within the indicated span. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

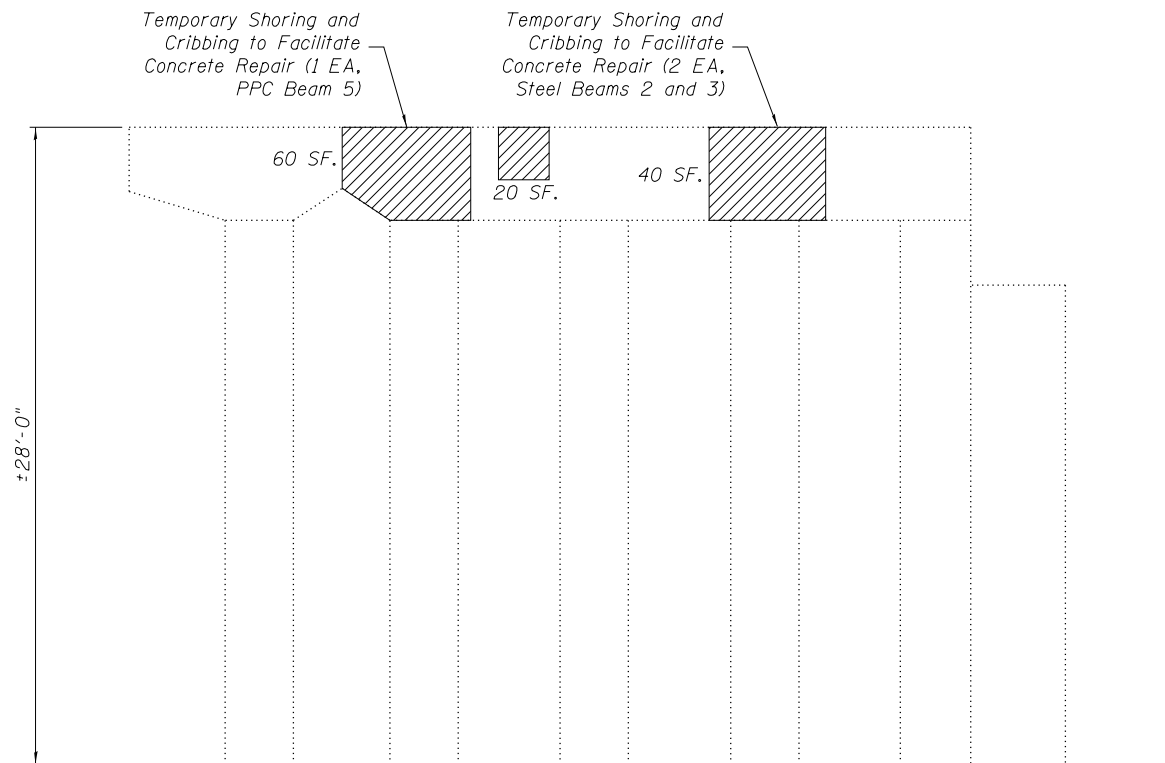
**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	168
	Temporary Shoring and Cribbing	Each	1

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -



**PIER 16 SOUTH ELEVATION**  
(Looking North)



**PIER 16 NORTH ELEVATION**  
(Looking South)

*Note:*  
Beams are numbered East to West.

PIER 16 GIRDER REACTION TABLE		
	Span 16	Span 17
R <sub>DL</sub> (k)	46.1	51.7
R <sub>SDL</sub> (k)	13.7	15.8
R <sub>LL</sub> (k)	37.6	41.8
R <sub>T</sub> (k)	9.8	10.6
R <sub>Total</sub> (k)	107.2	119.9

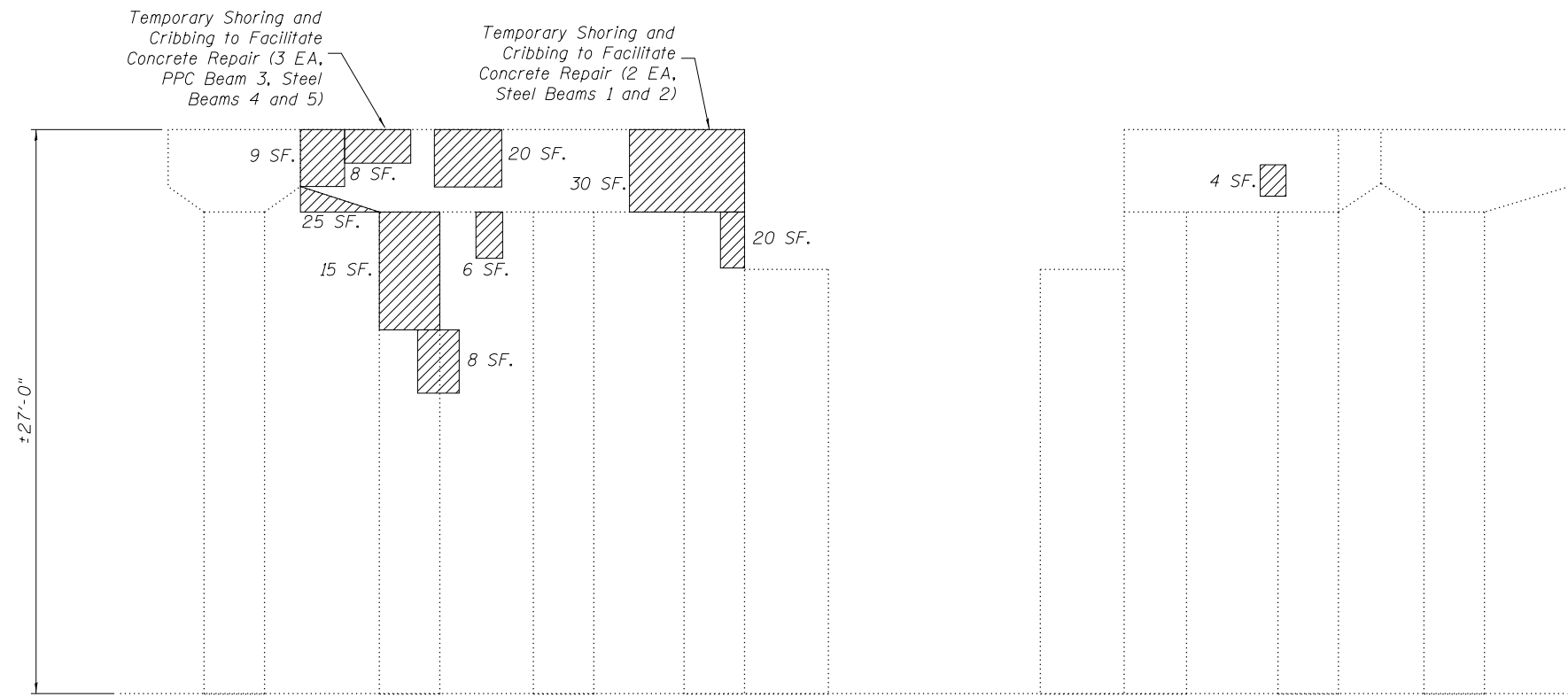
*Note:*  
Due to variable girder type, spacing, and span, reactions provided are a general indication for the loads within the indicated span. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	207
	Temporary Shoring and Cribbing	Each	4

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

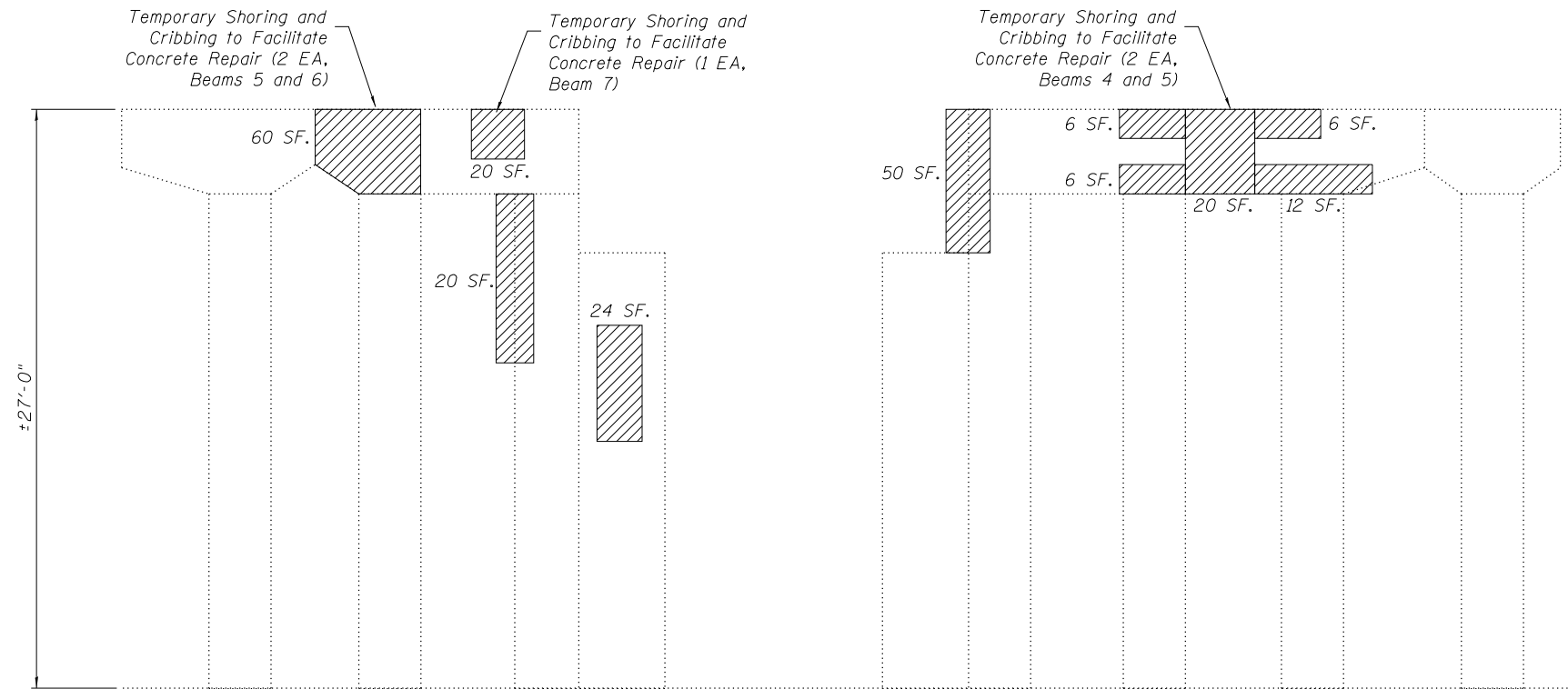
F.A.I. RE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 86
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



**PIER 17 SOUTH ELEVATION**

(Looking North)

*Note:*  
Beams are numbered East to West.



**PIER 17 NORTH ELEVATION**

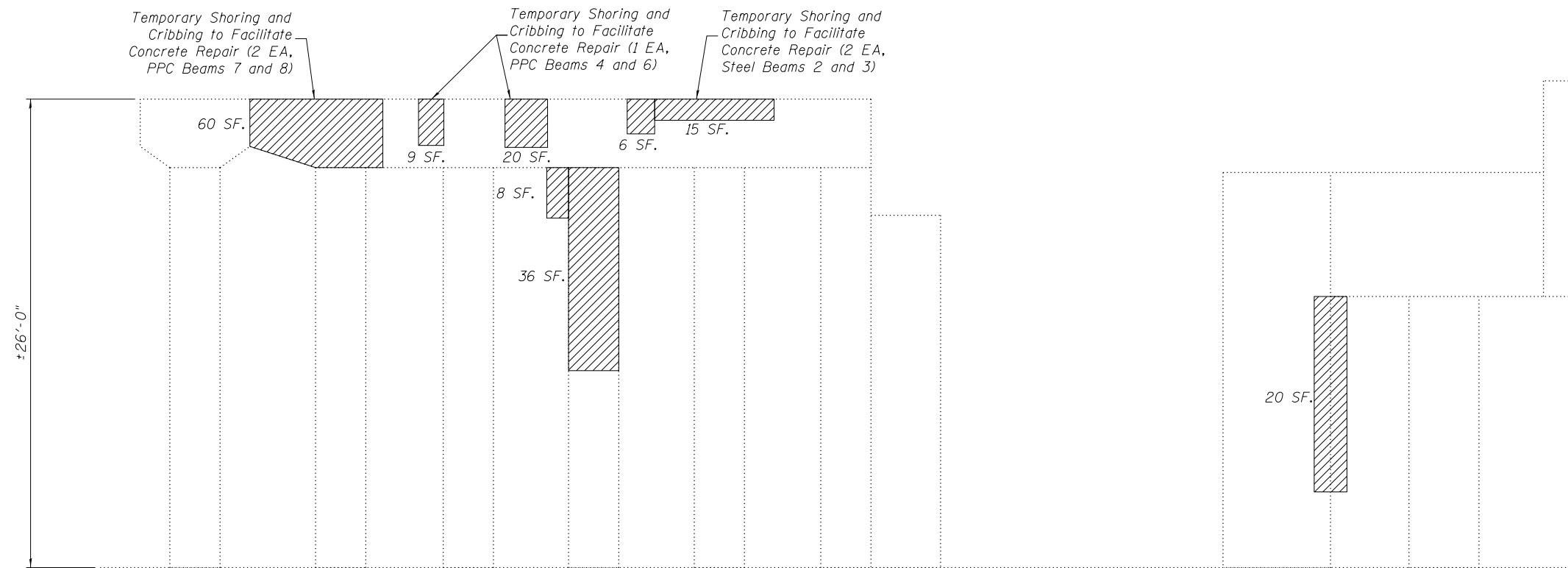
(Looking South)

PIER 17 GIRDER REACTION TABLE		
	Span 17	Span 18
R <sub>DL</sub> (k)	51.7	51.1
R <sub>SDL</sub> (k)	15.8	16.1
R <sub>LL</sub> (k)	41.8	43.0
R <sub>T</sub> (k)	10.6	11.0
R <sub>Total</sub> (k)	119.9	121.2

*Note:*  
Due to variable girder type, spacing, and span, reactions provided are a general indication for the loads within the indicated span. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

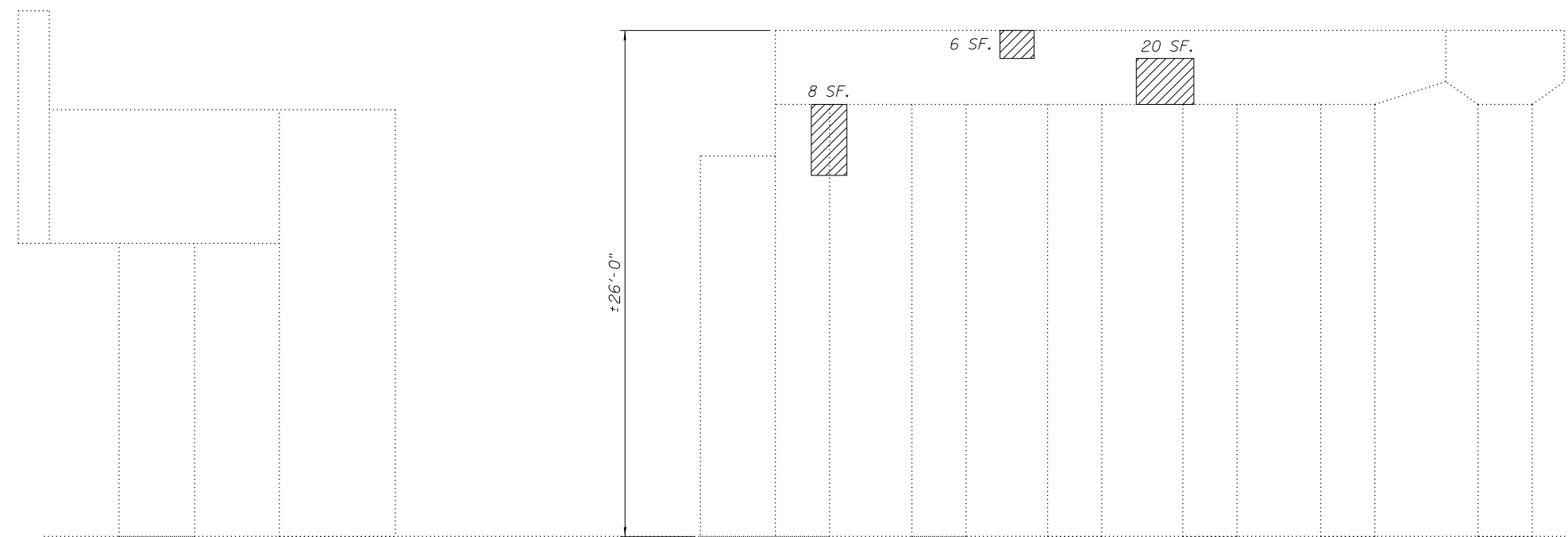
**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	369
	Temporary Shoring and Cribbing	Each	10



**PIER 18 SOUTH ELEVATION**  
(Looking North)

*Note:*  
Beams are numbered East to West.



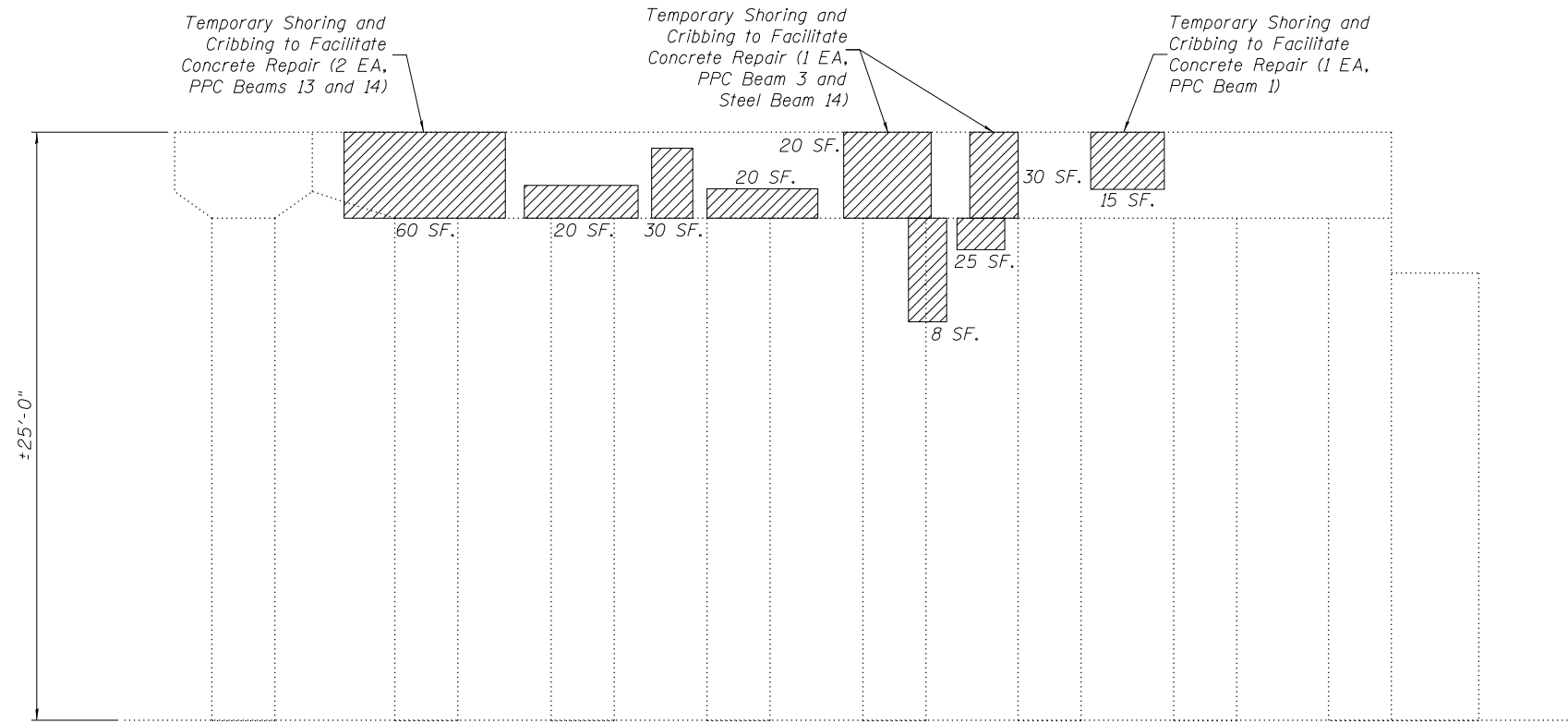
**PIER 18 NORTH ELEVATION**  
(Looking South)

PIER 18 GIRDER REACTION TABLE		
	Span 18	Span 19
$R_{DL}$ (k)	51.1	53.7
$R_{SDL}$ (k)	16.1	15.4
$R_{LL}$ (k)	43.0	37.5
$R_T$ (k)	11.0	9.2
$R_{Total}$ (k)	121.2	115.8

*Note:*  
Due to variable girder type, spacing, and span, reactions provided are a general indication for the loads within the indicated span. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

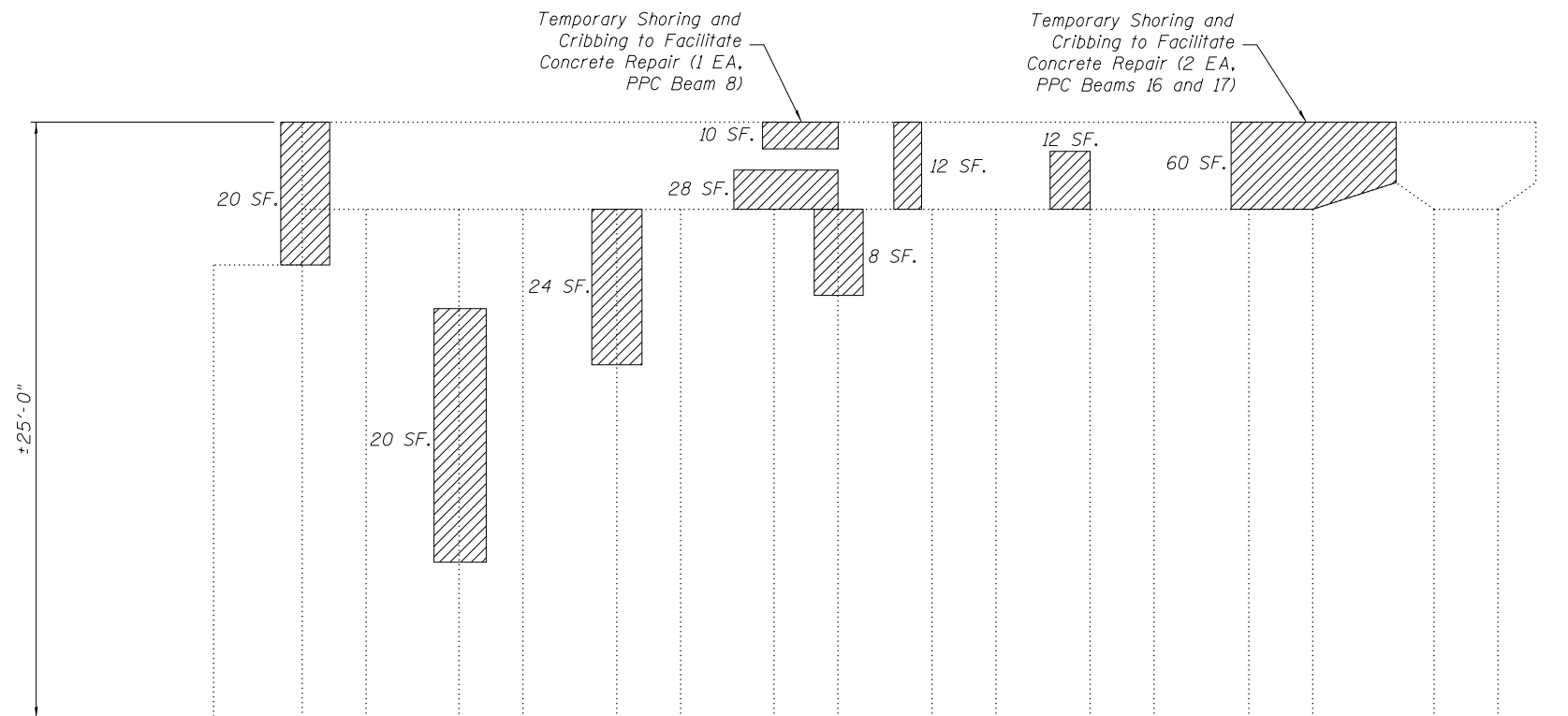
**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	208
	Temporary Shoring and Cribbing	Each	6



**PIER 19 SOUTH ELEVATION**  
(Looking North)

*Note:*  
Beams are numbered East to West.



**PIER 19 NORTH ELEVATION**  
(Looking South)

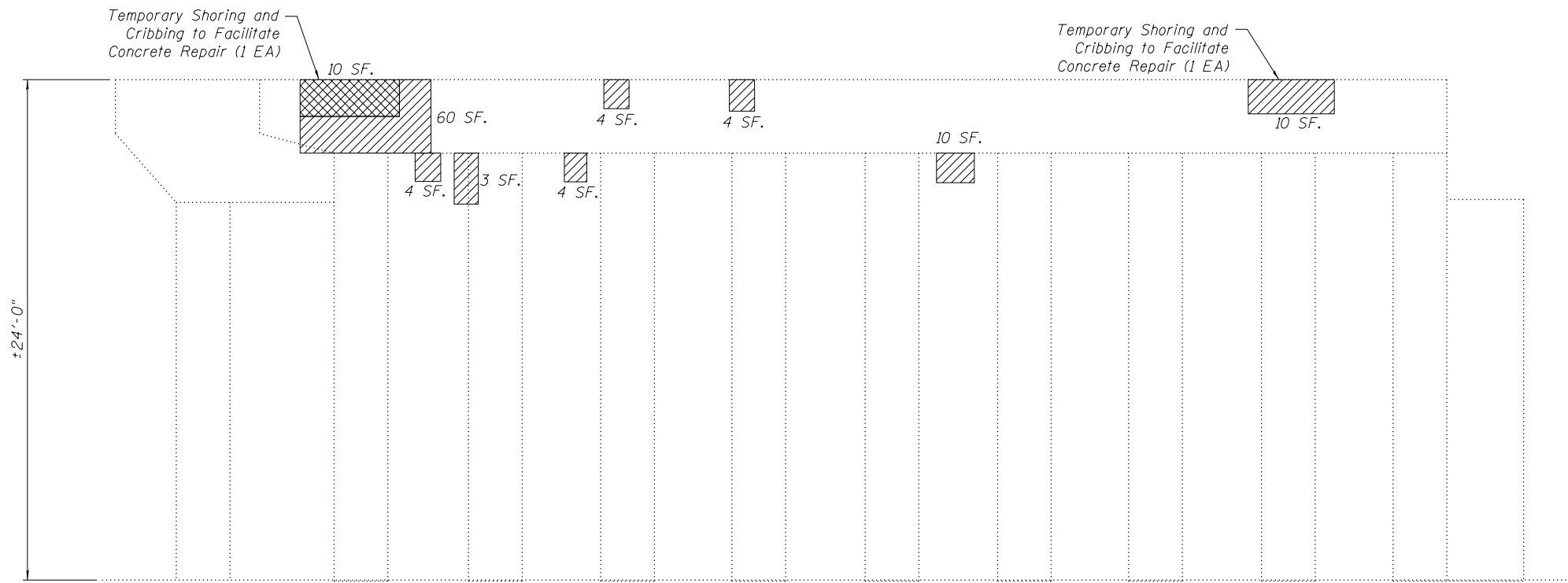
**PIER 19  
GIRDER REACTION TABLE**

	Span 19	Span 20
R <sub>DL</sub> (k)	53.7	42.0
R <sub>SDL</sub> (k)	15.4	13.8
R <sub>LL</sub> (k)	37.5	46.5
R <sub>T</sub> (k)	9.2	13.0
R <sub>Total</sub> (k)	115.8	115.3

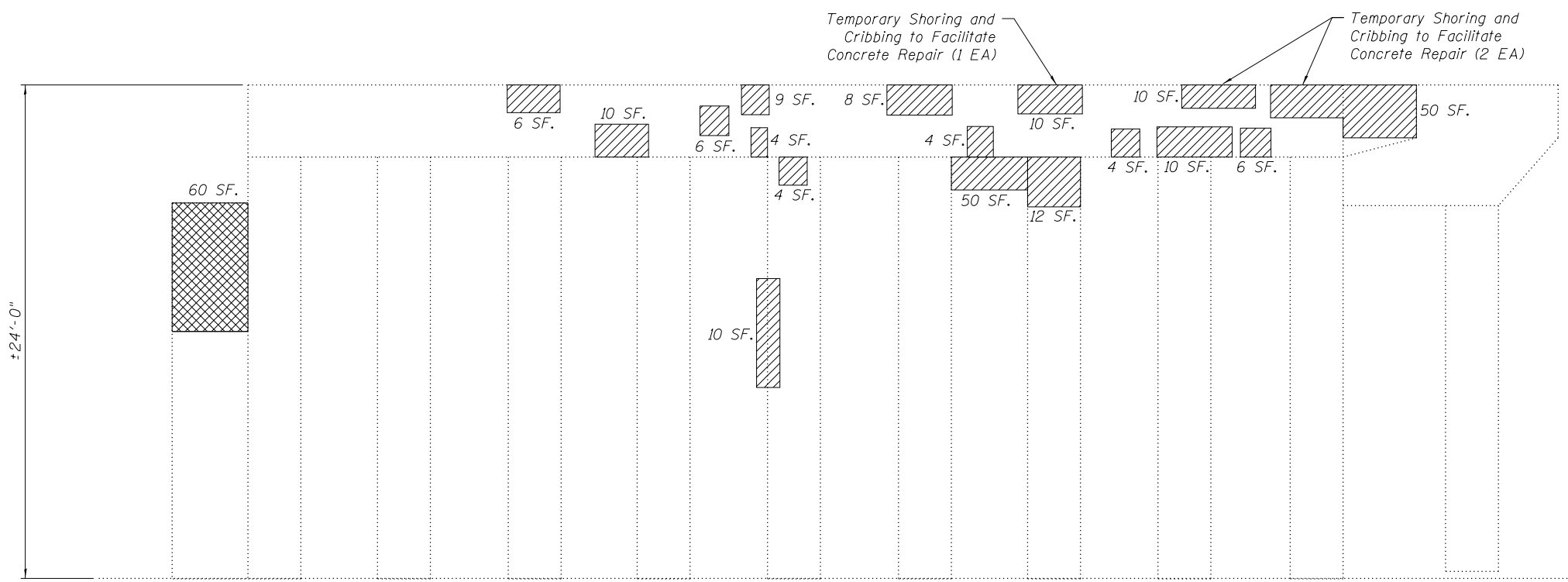
*Note:*  
Due to variable girder type, spacing, and span, reactions provided are a general indication for the loads within the indicated span. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	422
	Temporary Shoring and Cribbing	Each	8



**PIER 20 SOUTH ELEVATION**  
(Looking North)



**PIER 20 NORTH ELEVATION**  
(Looking South)

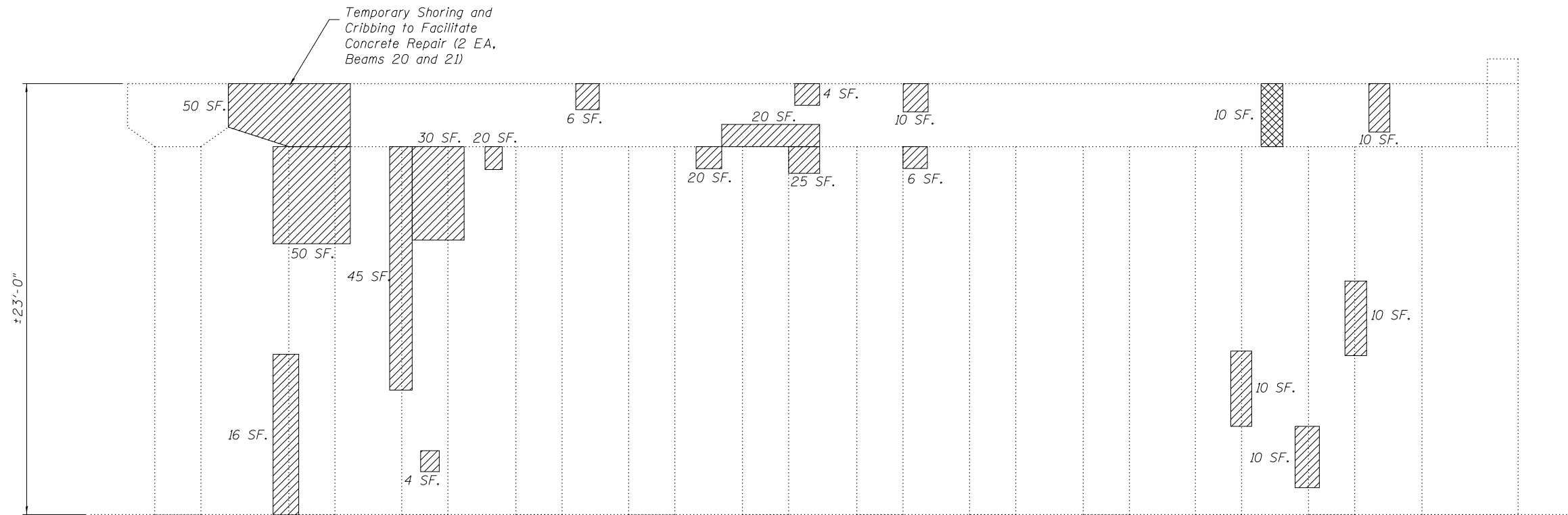
*Note:*  
The numbers of the beams to be shored were not included in the inspection notes.

PIER 20 GIRDER REACTION TABLE		
	Span 20	Span 21
R <sub>DL</sub> (k)	42.0	45.7
R <sub>SDL</sub> (k)	13.8	14.8
R <sub>LL</sub> (k)	46.5	47.1
R <sub>T</sub> (k)	13.0	12.9
R <sub>Total</sub> (k)	115.3	120.5

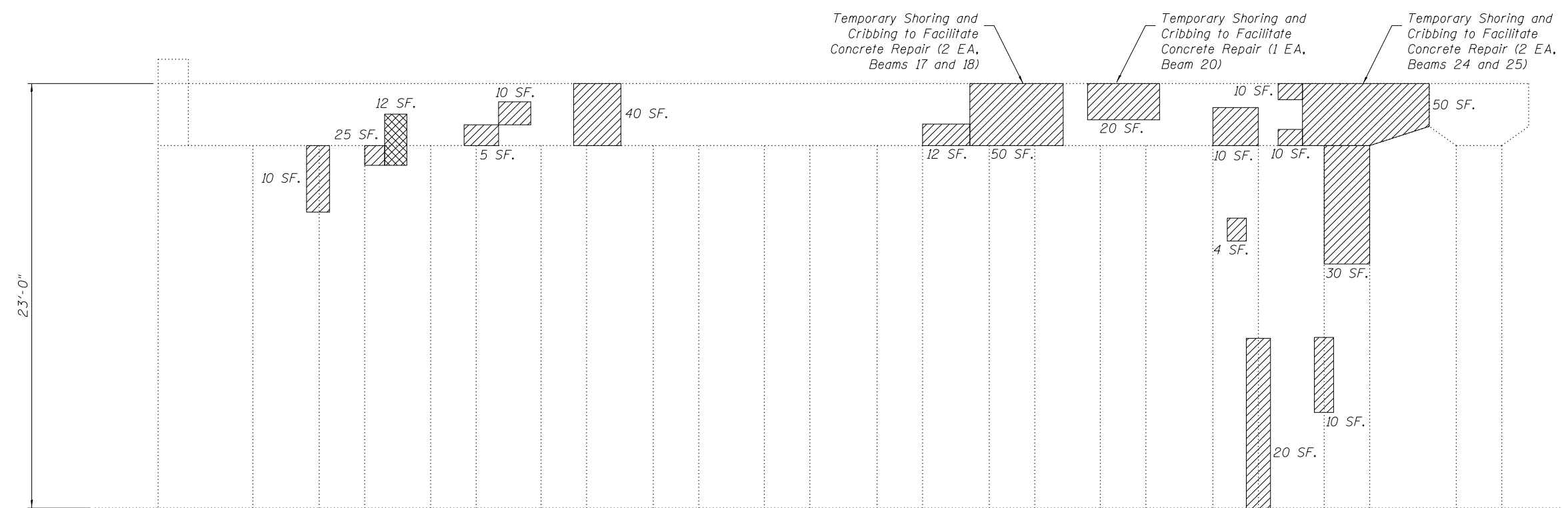
*Note:*  
Due to variable girder type, spacing, and span, reactions provided are a general indication for the loads within the indicated span. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	312
	Structural Repair of Concrete, (Depth Greater Than 5")	Sq. Ft.	70
	Temporary Shoring and Cribbing	Each	7



**PIER 21 SOUTH ELEVATION**  
(Looking North)



**PIER 21 NORTH ELEVATION**  
(Looking South)

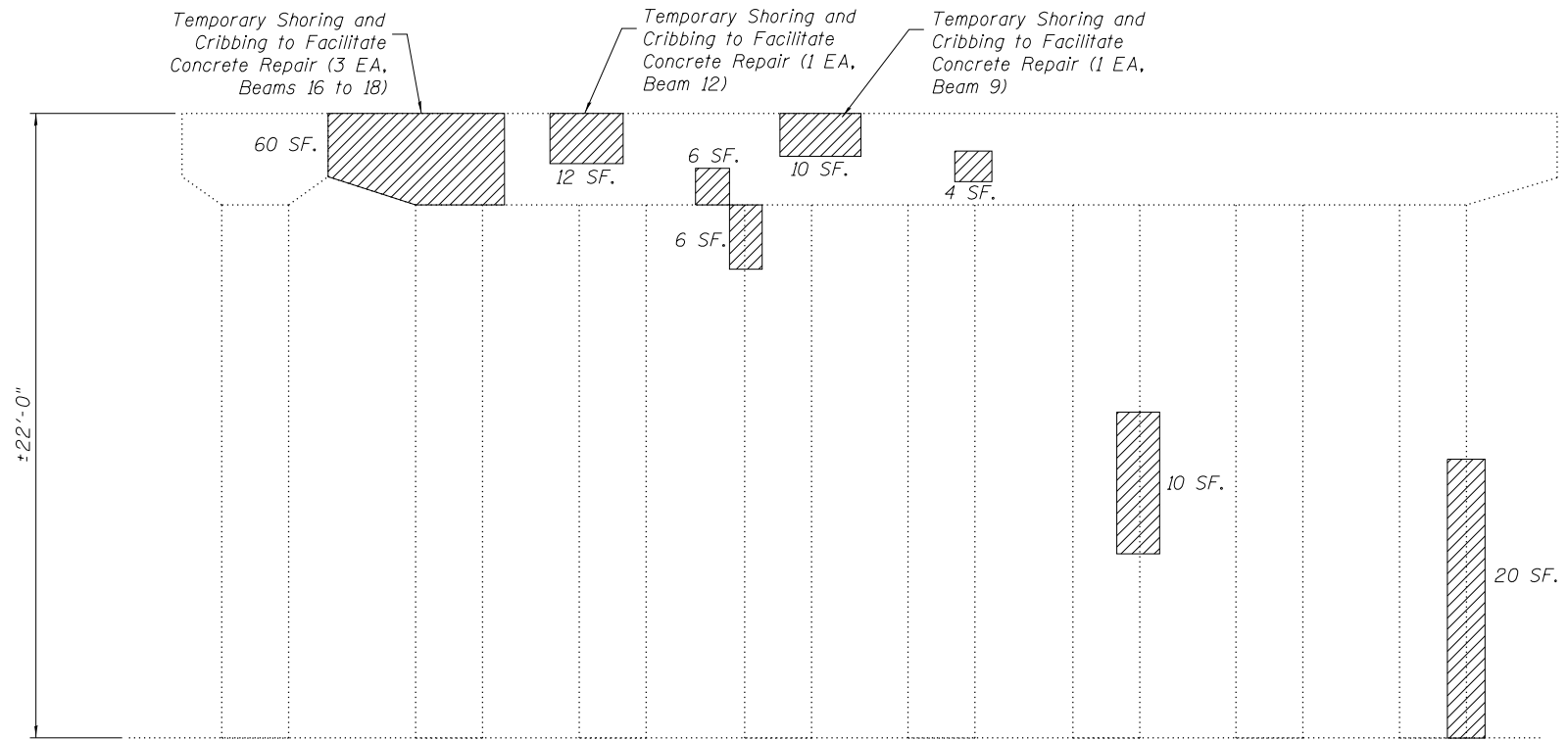
**PIER 21  
GIRDER REACTION TABLE**

	Span 21	Span 22
R <sub>DL</sub> (k)	45.7	35.8
R <sub>SDL</sub> (k)	14.8	11.0
R <sub>LL</sub> (k)	47.1	37.4
R <sub>T</sub> (k)	12.9	10.6
R <sub>Total</sub> (k)	120.5	94.8

**Note:**  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

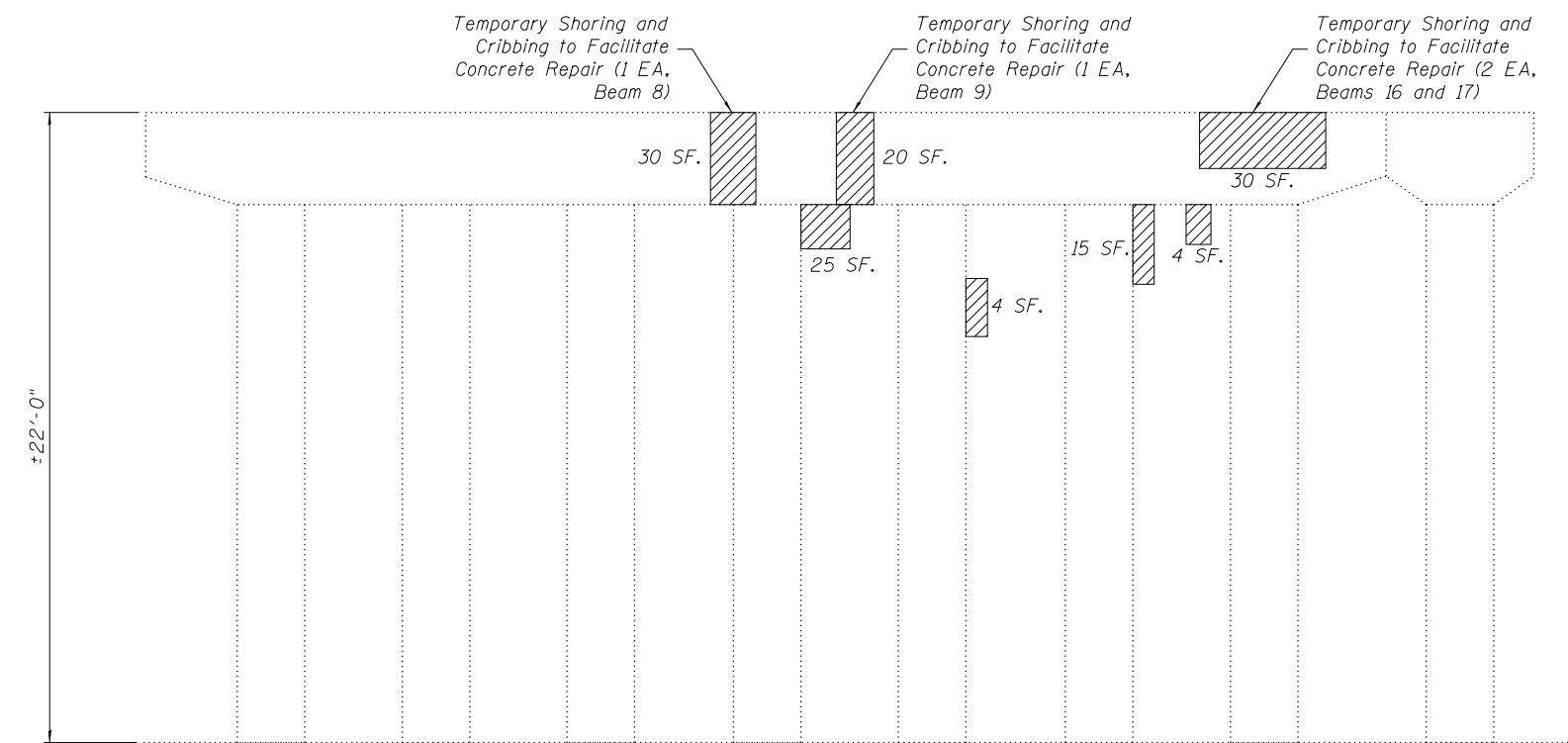
**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	662
	Structural Repair of Concrete, (Depth Greater Than 5")	Sq. Ft.	22
	Temporary Shoring and Cribbing	Each	7



**PIER 22 SOUTH ELEVATION**  
(Looking North)

*Note:*  
Beams are numbered East to West.



**PIER 22 NORTH ELEVATION**  
(Looking South)

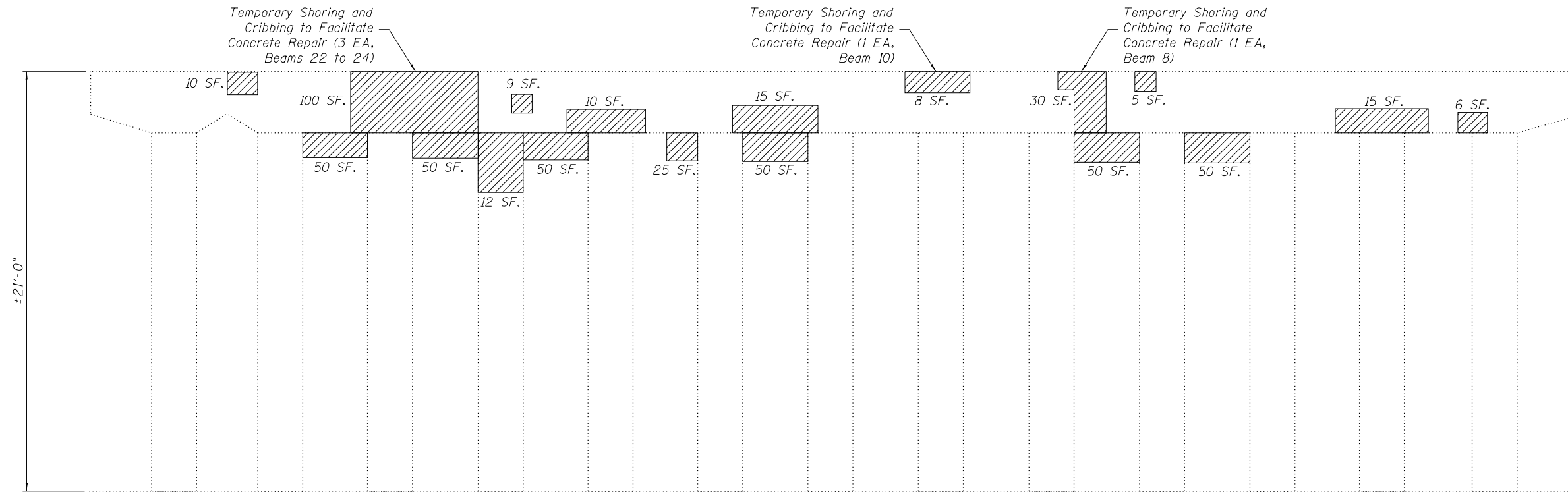
PIER 22 GIRDER REACTION TABLE		
	Span 22	Span 23
R <sub>DL</sub> (k)	35.8	56.2
R <sub>SDL</sub> (k)	11.0	17.2
R <sub>LL</sub> (k)	37.4	40.4
R <sub>T</sub> (k)	10.6	9.9
R <sub>Total</sub> (k)	94.8	123.7

*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	256
	Temporary Shoring and Cribbing	Each	9

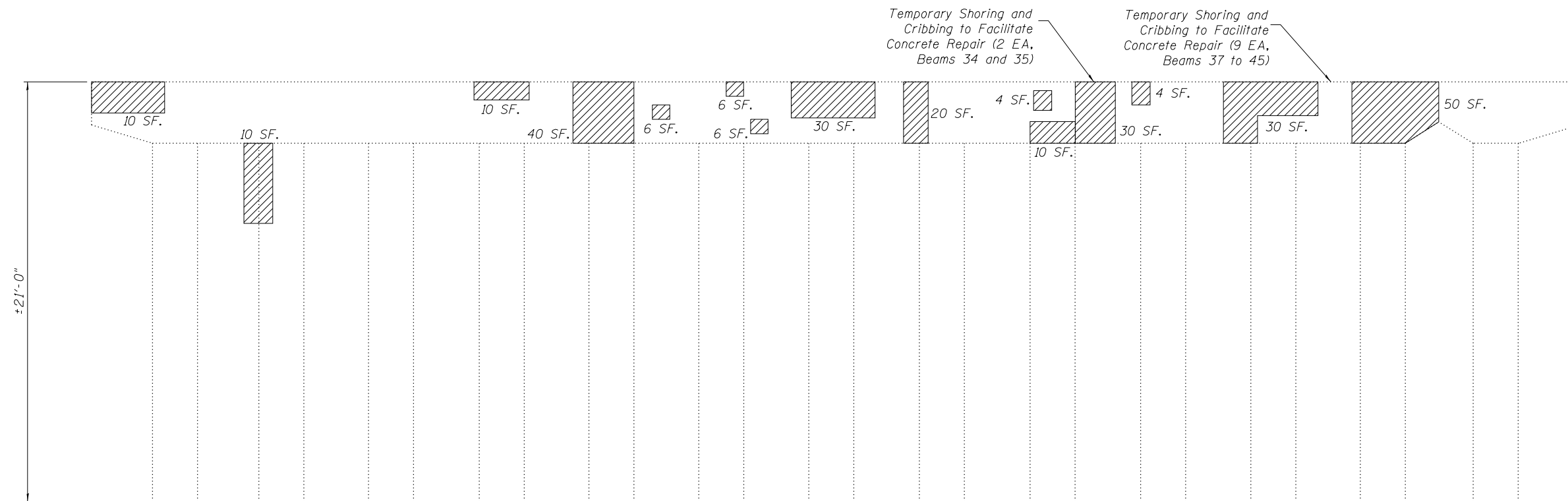




**PIER 23 SOUTH ELEVATION**

(Looking North)

*Note:*  
Beams are numbered East to West.



**PIER 23 NORTH ELEVATION**

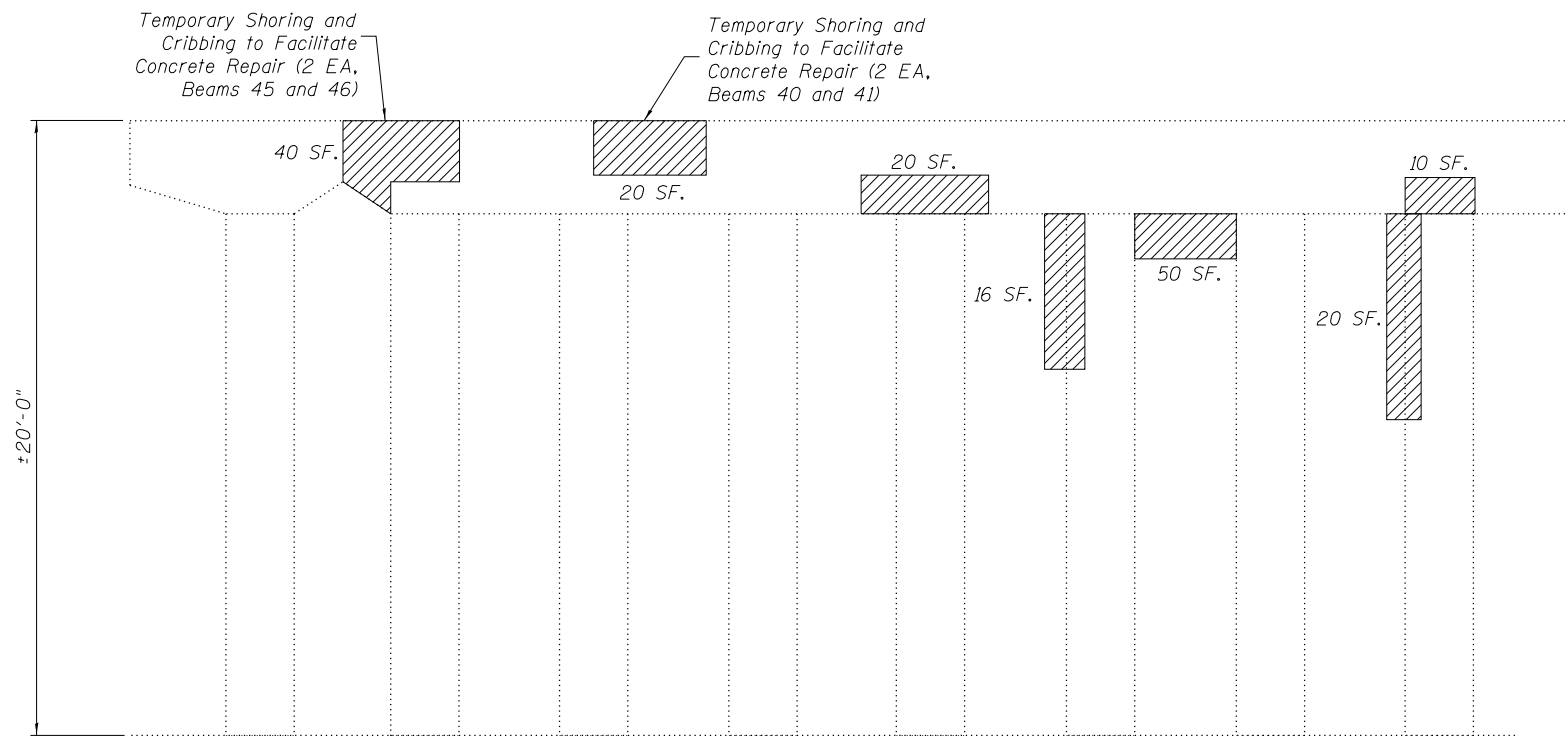
(Looking South)

PIER 23 GIRDER REACTION TABLE		
	Span 23	Span 24
R <sub>DL</sub> (k)	56.2	55.0
R <sub>SDL</sub> (k)	17.2	15.4
R <sub>LL</sub> (k)	40.4	37.6
R <sub>T</sub> (k)	9.9	9.1
R <sub>Total</sub> (k)	123.7	117.1

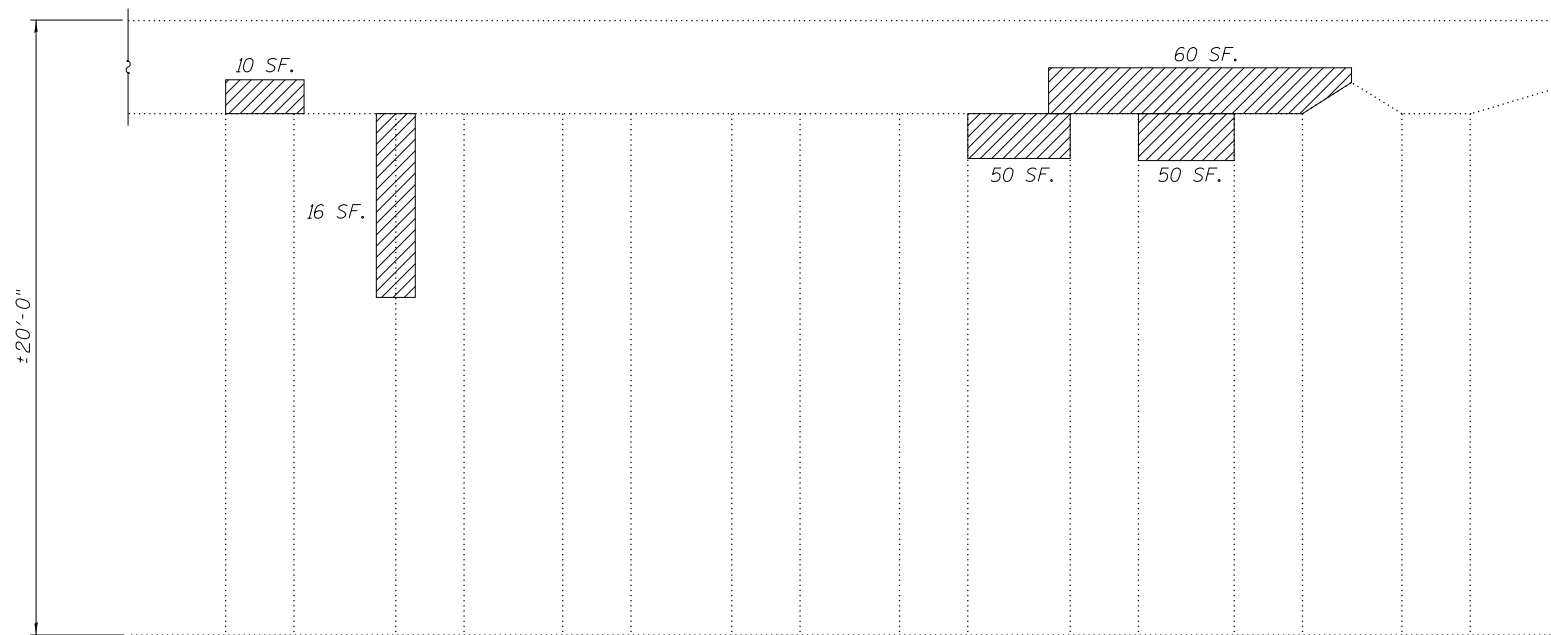
*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	811
	Temporary Shoring and Cribbing	Each	16



*Note:*  
Beams are numbered East to West.



**PIER 24 SOUTH ELEVATION**  
(Looking North)

PIER 24 GIRDER REACTION TABLE		
	Span 24	Span 25
R <sub>DL</sub> (k)	55.0	39.1
R <sub>SDL</sub> (k)	15.4	12.8
R <sub>LL</sub> (k)	37.6	46.1
R <sub>T</sub> (k)	9.1	13.2
R <sub>Total</sub> (k)	117.1	111.2

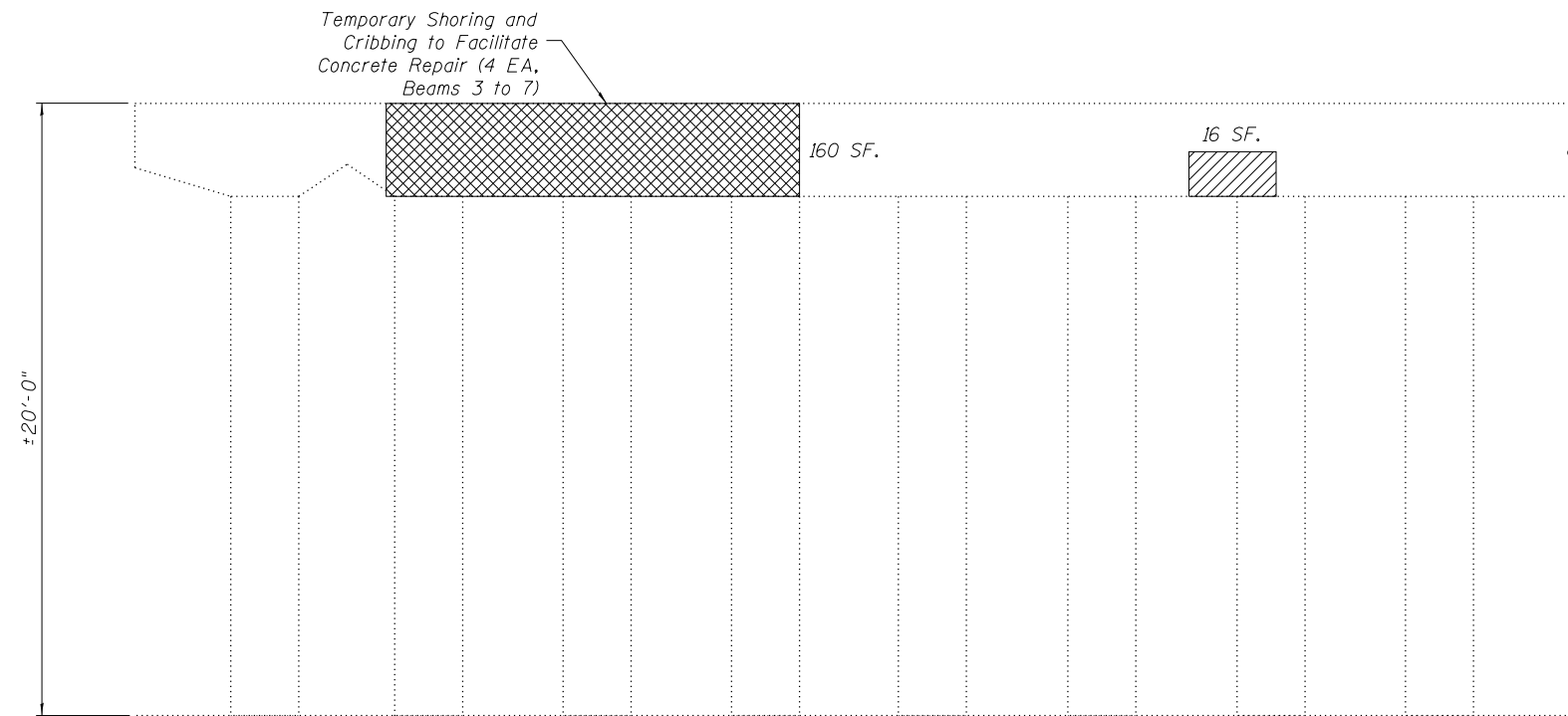
*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

**BILL OF MATERIAL**

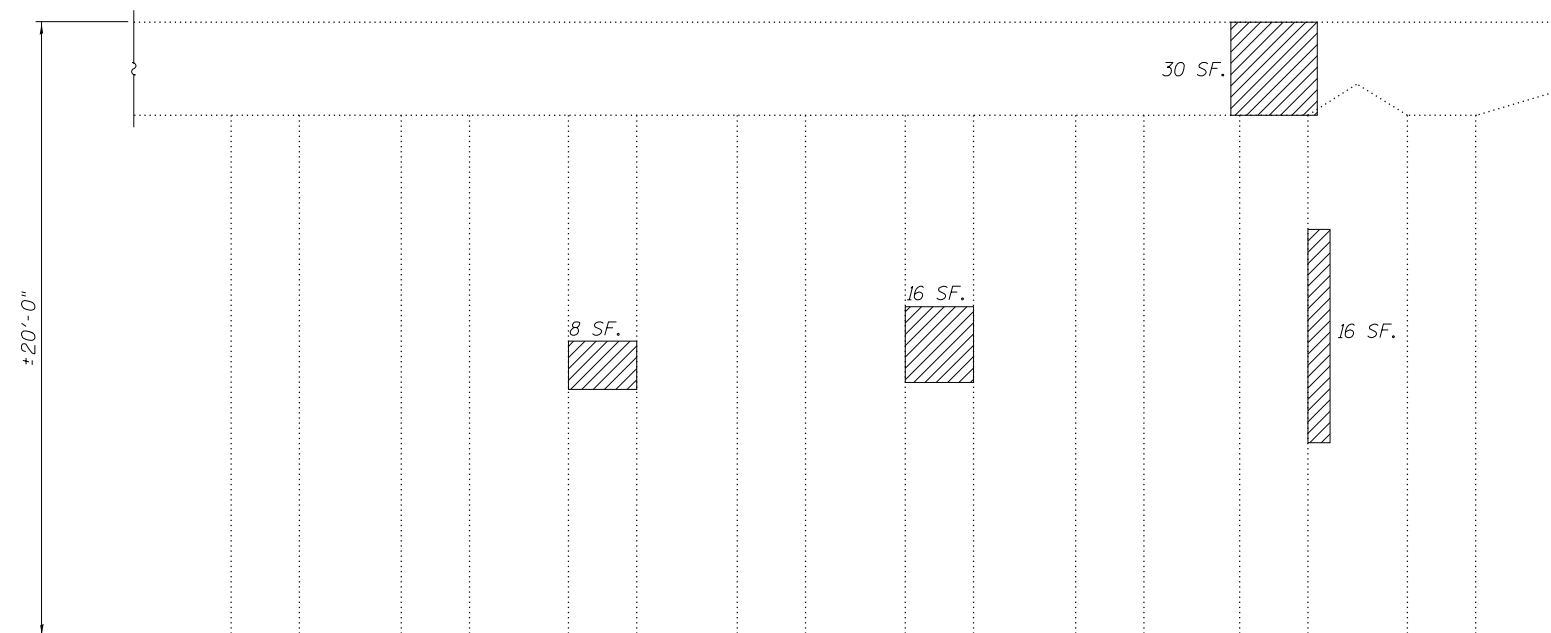
SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	362
	Temporary Shoring and Cribbing	Each	4

USER NAME =	DESIGNED - AMS	REVISED -
DRAWN - DR	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

F.A.I. RE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 94
			CONTRACT NO. 60V58	
ILLINOIS FED. AID PROJECT				



*Note:*  
Beams are numbered East to West.



PIER 24 GIRDER REACTION TABLE			
		Span 24	Span 25
R <sub>DL</sub>	(k)	55.0	39.1
R <sub>SDL</sub>	(k)	15.4	12.8
R <sub>LL</sub>	(k)	37.6	46.1
R <sub>T</sub>	(k)	9.1	13.2
R <sub>Total</sub>	(k)	117.1	111.2

*Note:*  
Reactions provided are for the maximum girder spacing and length within the span indicated. Contractor shall verify loading at each shoring location. Cost included in pay item 'Temporary Shoring and Cribbing.'

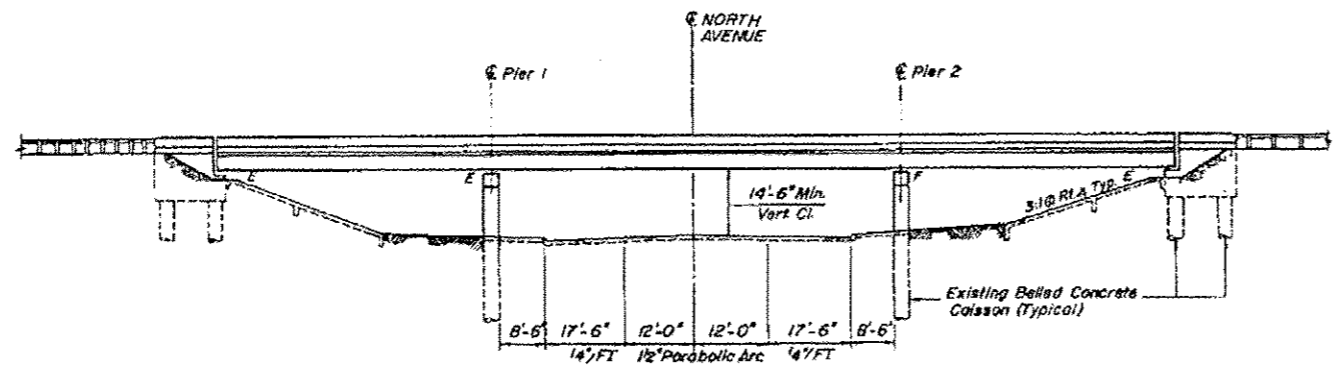
**BILL OF MATERIAL**

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete, (Depth Equal To or Less Than 5")	Sq. Ft.	86
	Structural Repair of Concrete, (Depth Greater Than 5")	Sq. Ft.	160
	Temporary Shoring and Cribbing	Each	4

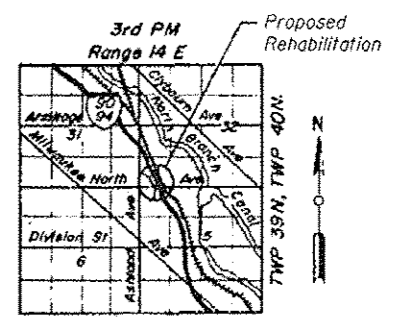
**PIER 24 NORTH ELEVATION**  
(Looking South)

USER NAME =	DESIGNED - AMS	REVISED -
	DRAWN - DR	REVISED -
PLOT SCALE =	CHECKED - JMH	REVISED -
PLOT DATE =	DATE - DECEMBER 2012	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	95
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	



**ELEVATION**  
Dimension of Rt. Angles



**LOCATION MAP**

**SCOPE OF WORK**

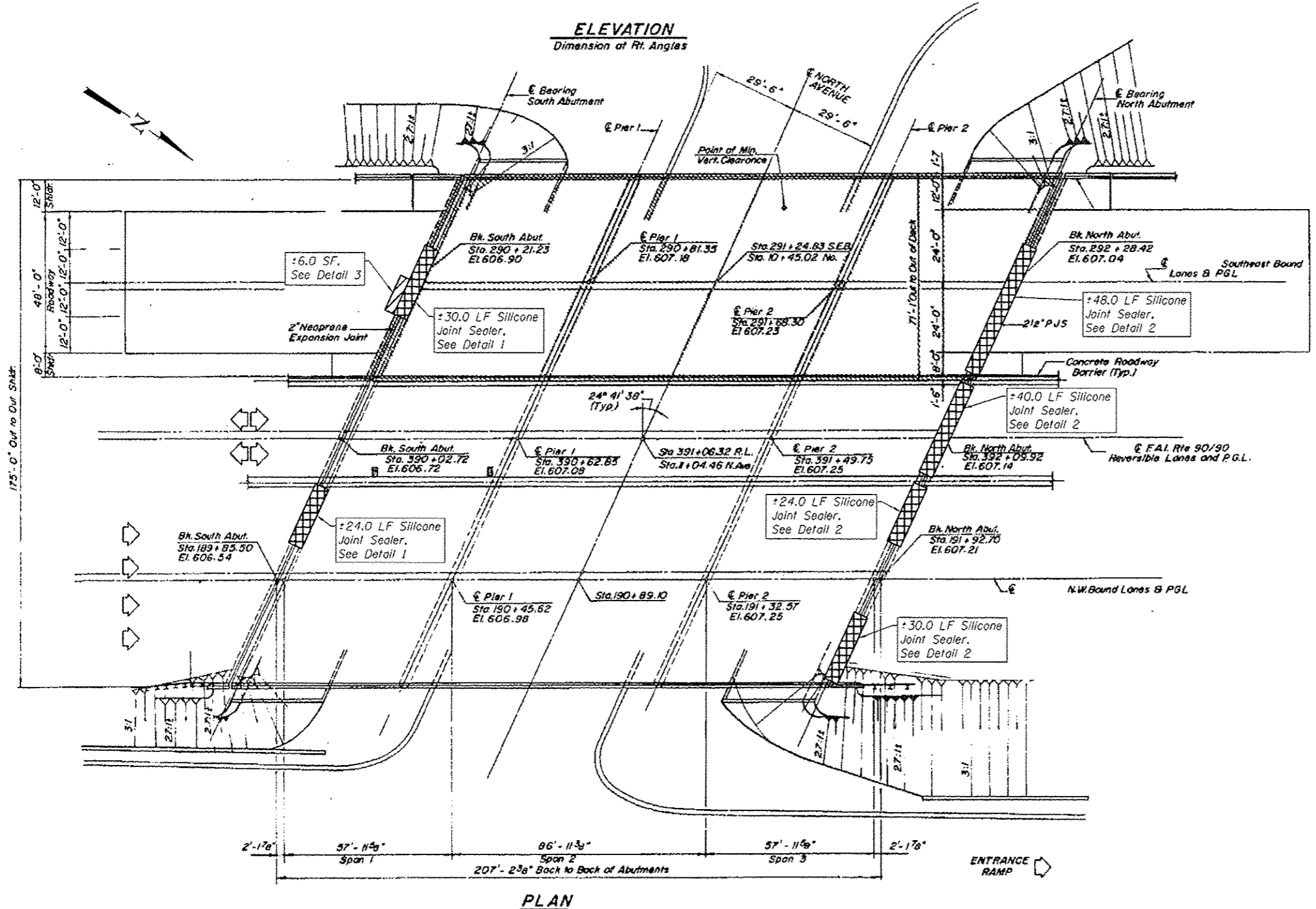
- 1. Expansion Joint Repairs

**DESIGN SPECIFICATIONS**  
2002 AASHTO Standard Specifications  
for Highway Bridges (17th Edition)

**LOADING HS20-44**

**LEGEND**

- Concrete Removal and Polymer Concrete
- Joint Repair Area
- ±10.0 LF Scope of Work



**PLAN**



COLLINS ENGINEERS, INC.  
JAMES M. HAMELKA  
NO. 81-6116  
EXPIRES 11-30-2014

**COLLINS ENGINEERS**  
1231 S. Maple Dr.  
Chicago, IL 60624  
Tel: (312) 354-1300  
Fax: (312) 354-1320  
www.collinseng.com

USER NAME *	DESIGNED - AMS	REVISED -
PLOT SCALE *	DRAWN - AMS	REVISED -
PLOT DATE *	CHECKED - JMH	REVISED -
	DATE - DECEMBER 2012	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
I-90/94 OVER NORTH AVENUE (SN 016-0134)

SHEET NO. S1 OF S2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-0558R	COOK	107	96
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

**INDEX OF SHEETS**

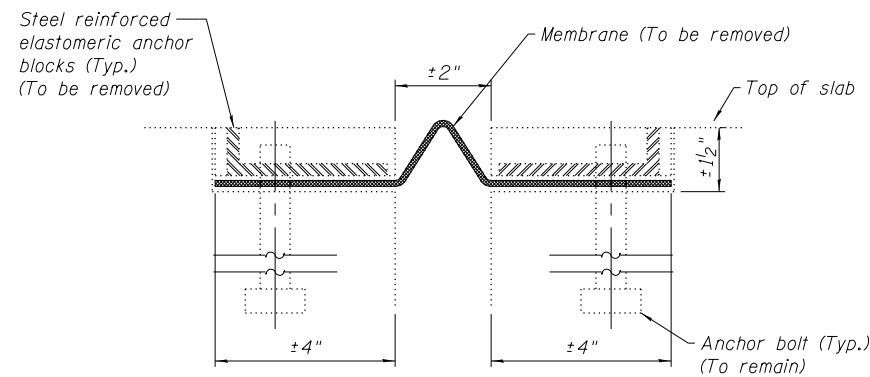
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

**GENERAL NOTES**

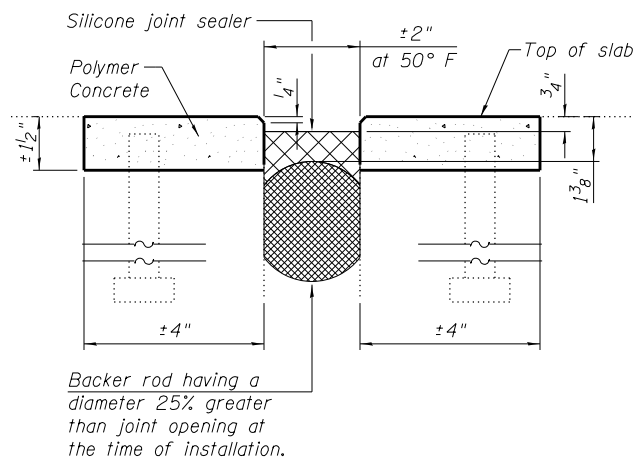
1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 1 3/4" or Silicone Joint Sealer 2", based on the proposed joint repairs.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.

**BILL OF MATERIAL**

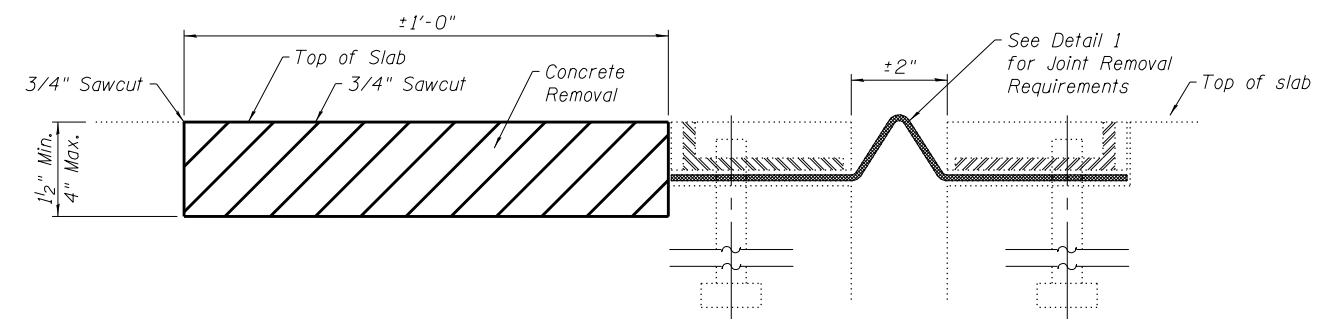
ITEM DESCRIPTION	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.1
Silicone Joint Sealer, 1 3/4"	Foot	142.0
Silicone Joint Sealer, 2"	Foot	54.0
Polymer Concrete	Cu. Ft.	6.5



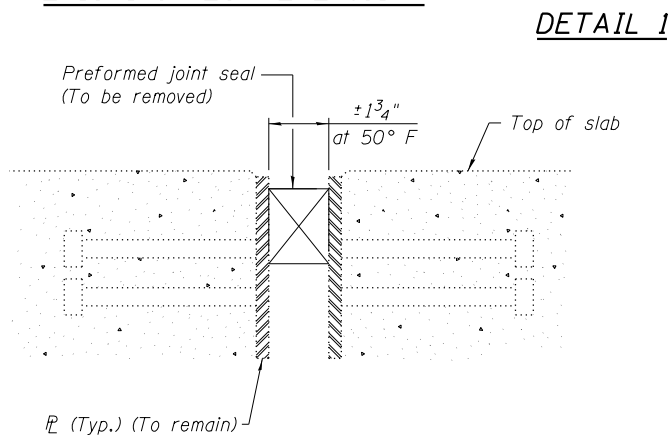
**SECTION THROUGH EXISTING NEOPRENE JOINT**



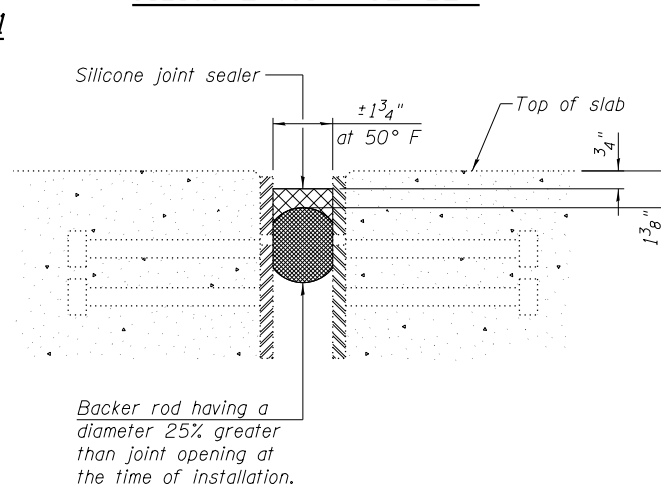
**SECTION THROUGH PROPOSED SILICONE JOINT SEALER**



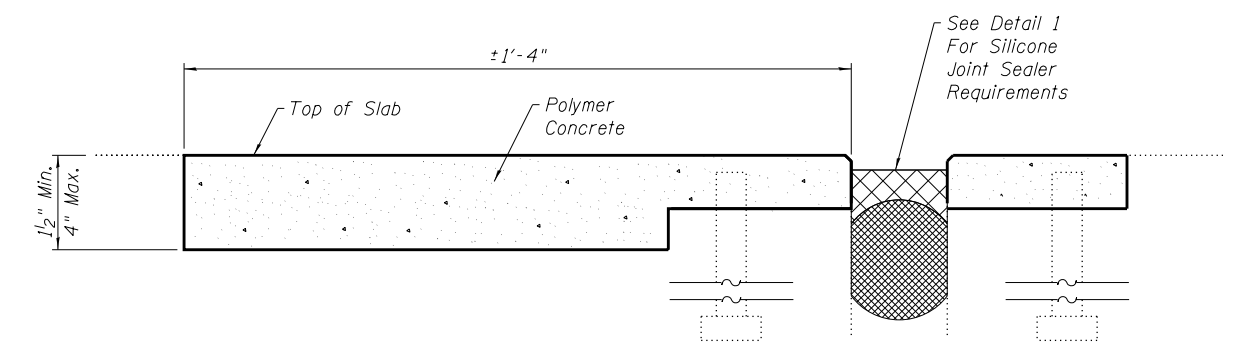
**EXISTING CONDITIONS**



**SECTION THROUGH EXISTING PJS JOINT**



**SECTION THROUGH PROPOSED SILICONE JOINT SEALER**

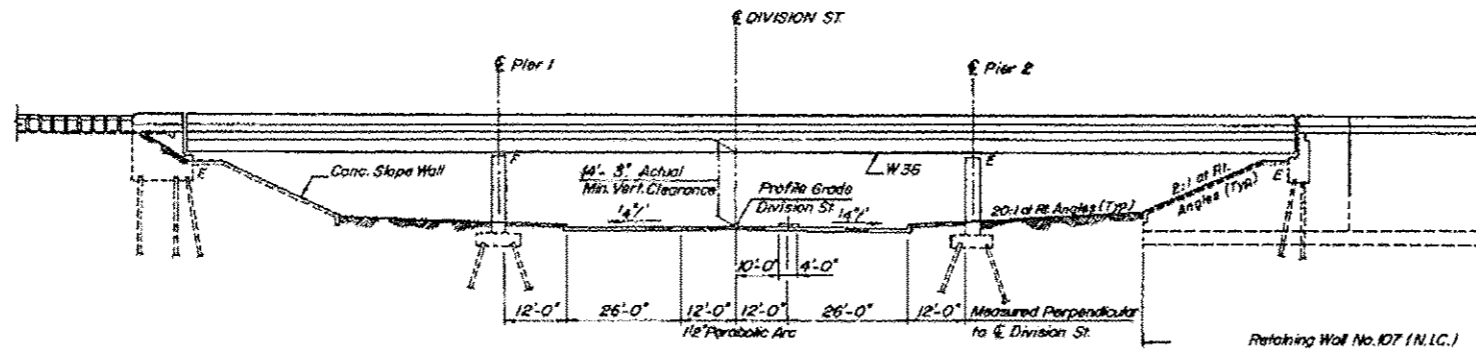


**PROPOSED CONDITIONS**

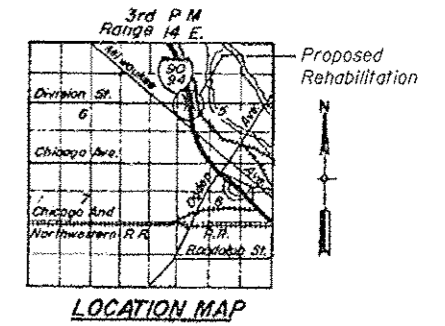
**DETAIL 1**

**DETAIL 2**

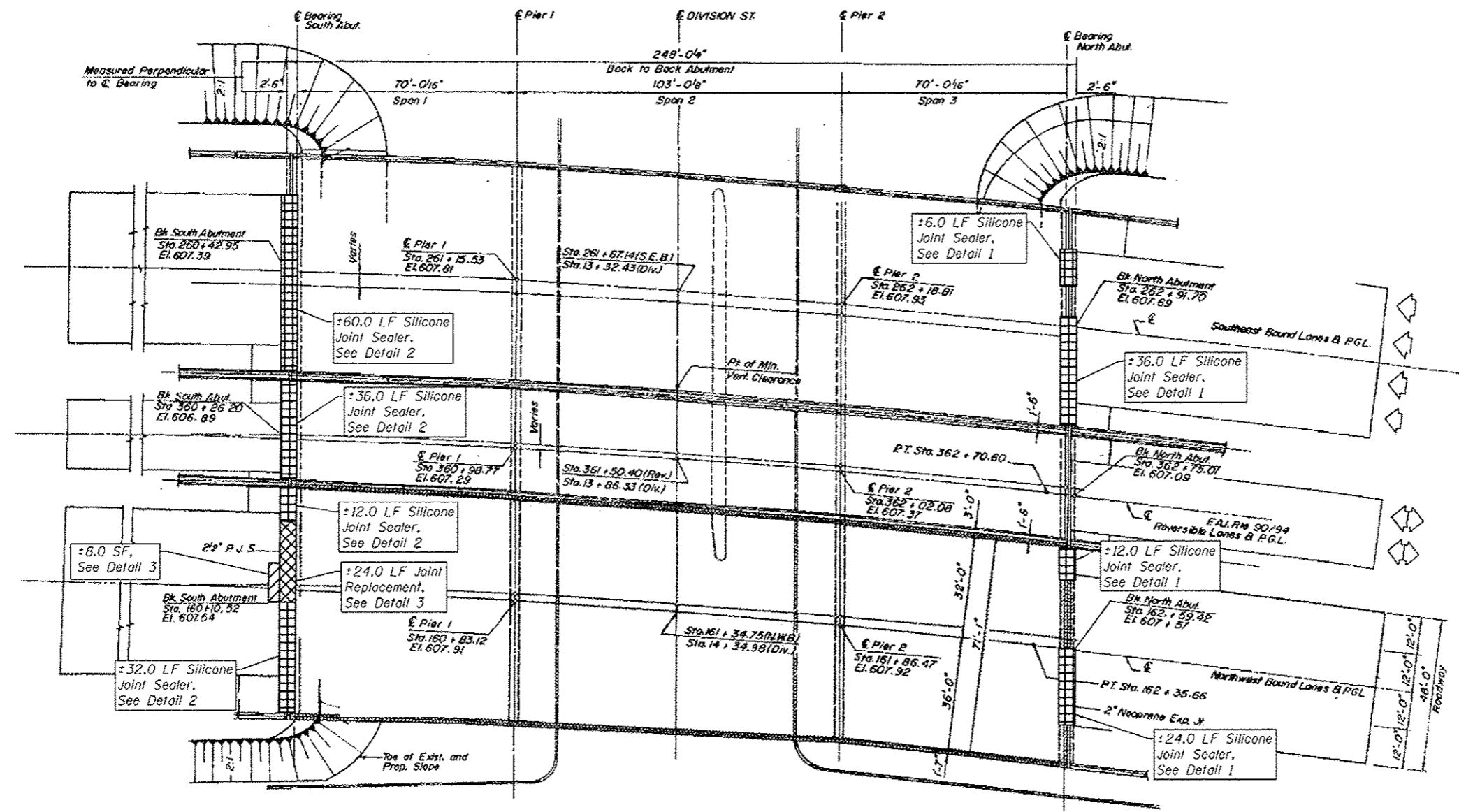
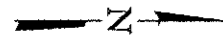
**DETAIL 3**



**ELEVATION**



**LOCATION MAP**



**PLAN**

**SCOPE OF WORK**

- 1. Expansion Joint Repairs

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

**LOADING HS20-44**

**LEGEND**

- Joint Repair Area
- Concrete Removal and Polymer Concrete
- Joint Replacement Area
- ±10.0 LF Scope of Work



COLLINS ENGINEERS, INC.  
JAMES M. HAMELKA  
NO. 81-6115  
EXPIRES 11-30-2014



USER NAME :	DESIGNED - AMS	REVISED -
PLOT SCALE :	DRAWN - AMS	REVISED -
PLOT DATE :	CHECKED - JM	REVISED -
	DATE - DECEMBER 2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
I-90/94 OVER DIVISION ST (SN 016-0135)**

SHEET NO. 51 OF 52 SHEETS

F.A.I. RTE. 90/94	SECTION 2012-0558R	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 98
CONTRACT NO. 60V58			ILLINOIS FED. AID PROJECT	

**INDEX OF SHEETS**

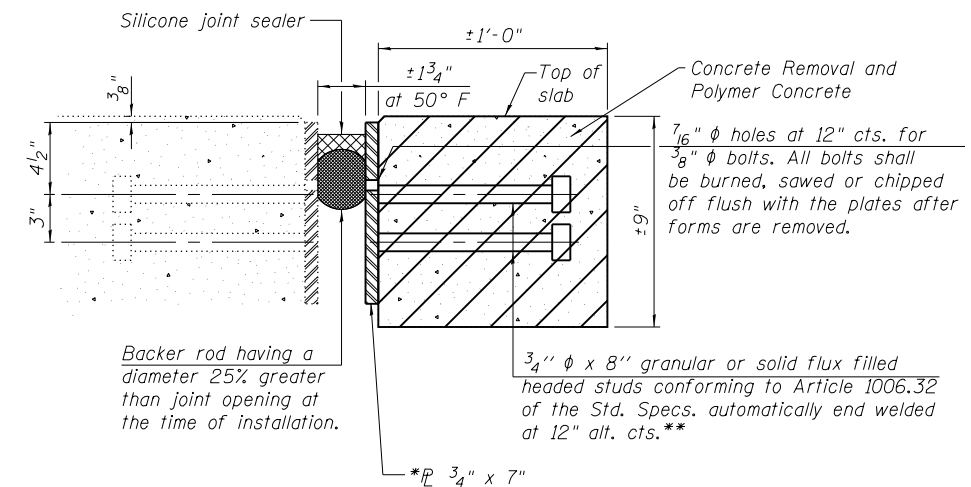
- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials, Index of Sheets, and Details

**GENERAL NOTES**

1. 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Staged construction shall be utilized to maintain traffic during construction. See Civil Drawings.
3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams or diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
4. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.
5. Cost for removal and disposal of existing expansion joints is included in the cost of Silicone Joint Sealer 1 3/4" or Silicone Joint Sealer 2", based on the proposed repairs at the joint.
6. The Contractor must take extra care to achieve proper bondage at the ends of the joint repair to the existing joint assembly.
7. Existing reinforcement bars extending into the concrete removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

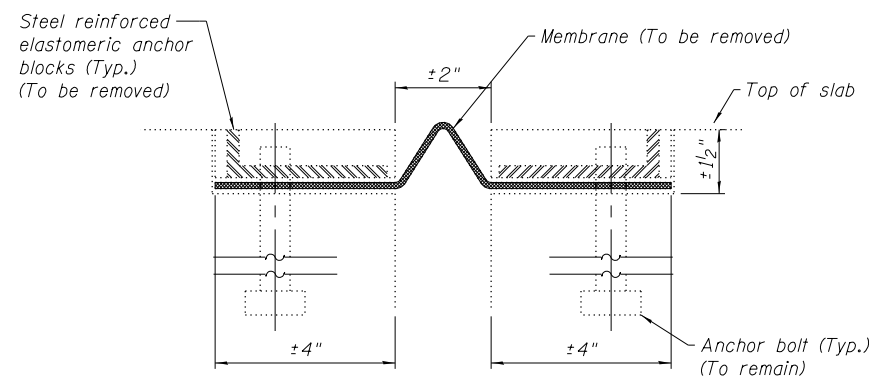
**BILL OF MATERIAL**

ITEM DESCRIPTION	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	0.3
Silicone Joint Sealer, 1 3/4"	Foot	164.0
Silicone Joint Sealer, 2"	Foot	78.0
Polymer Concrete	Cu. Ft.	12.5

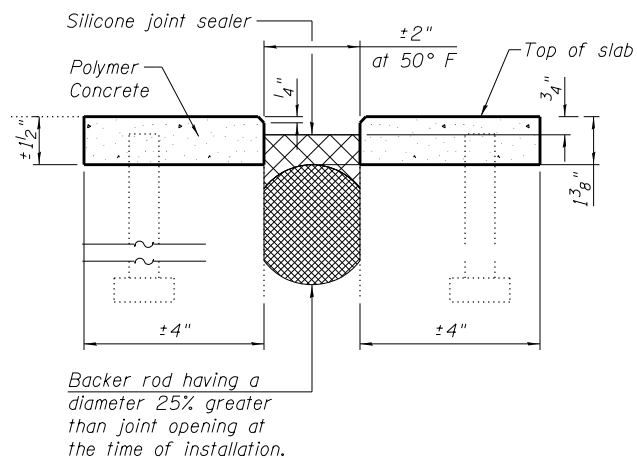


**SECTION THROUGH PROPOSED PJS JOINT REPLACEMENT DETAIL 3**

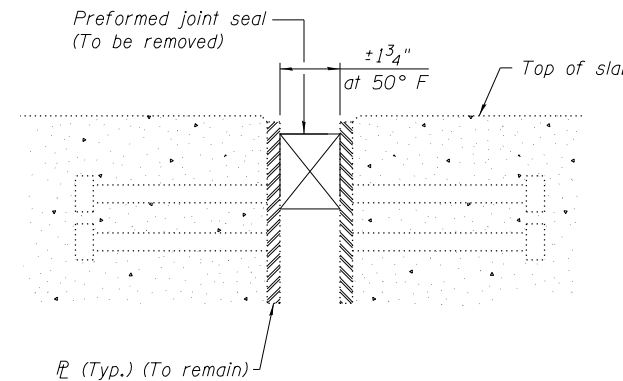
- \* Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel. Cost included in pay item for Silicone Joint Sealer, 1 3/4"
- \*\* Cost included in pay item for Silicone Joint Sealer, 1 3/4"



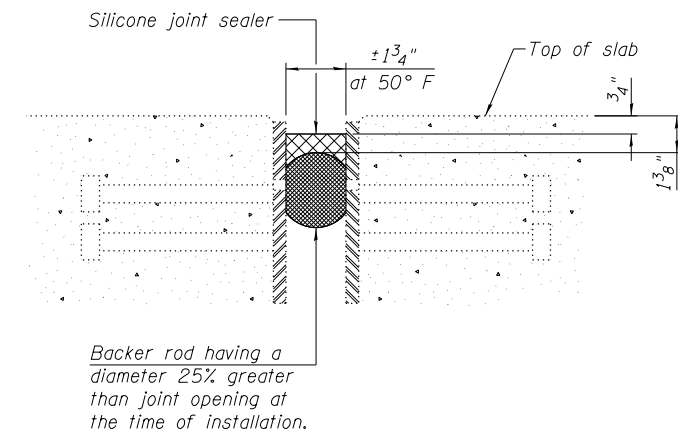
**SECTION THROUGH EXISTING NEOPRENE JOINT DETAIL 1**



**SECTION THROUGH PROPOSED SILICONE JOINT SEALER**



**SECTION THROUGH EXISTING PJS JOINT DETAIL 2**

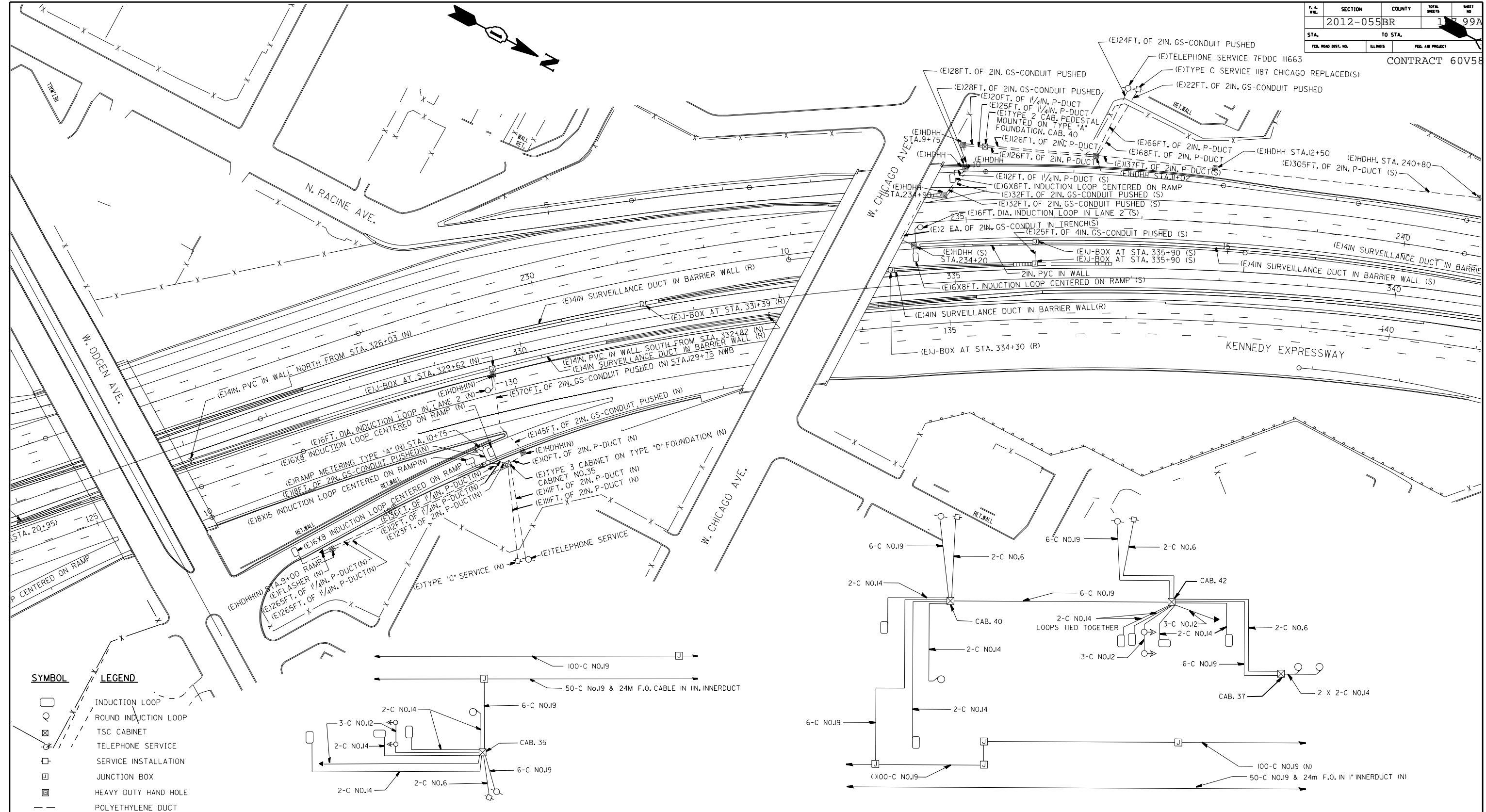


**SECTION THROUGH PROPOSED SILICONE JOINT SEALER**

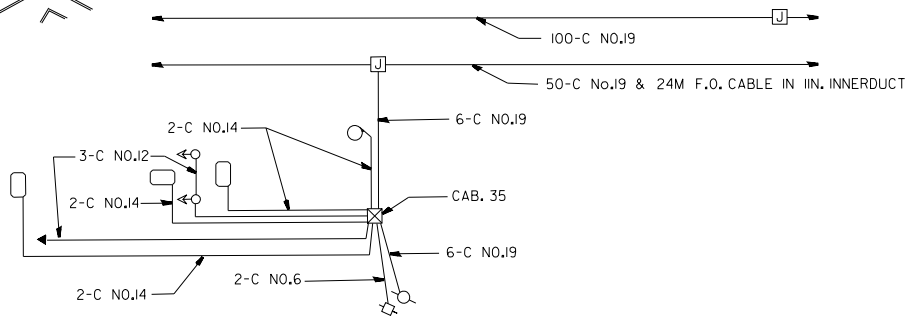
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DRAWN - AMS	CHECKED - JMH	REVISED -
PLOT SCALE =	DATE - DECEMBER 2012	REVISED -
PLOT DATE =		

F.A.I. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	99
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V58	

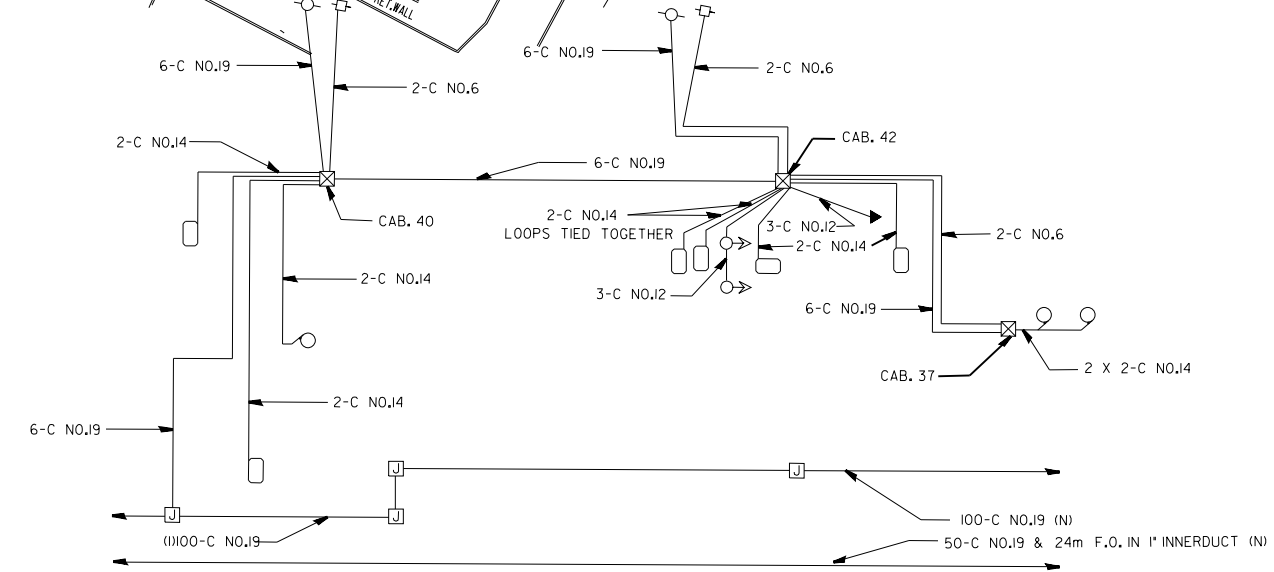




SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE



WIRING DIAGRAM



WIRING DIAGRAM

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
	2013

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY  
**CHICAGO AVE.**

SCALE: VERT. 50:1  
HORIZ. 50:1

DATE \_\_\_\_\_ DRAWN BY G.M.  
CHECKED BY \_\_\_\_\_

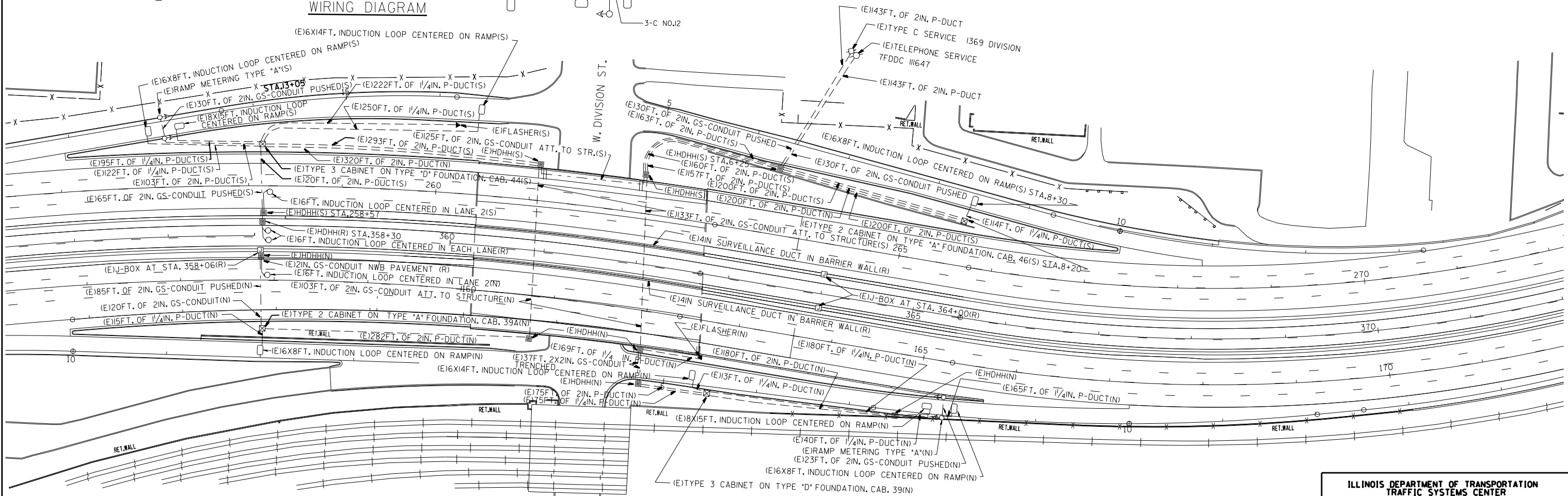
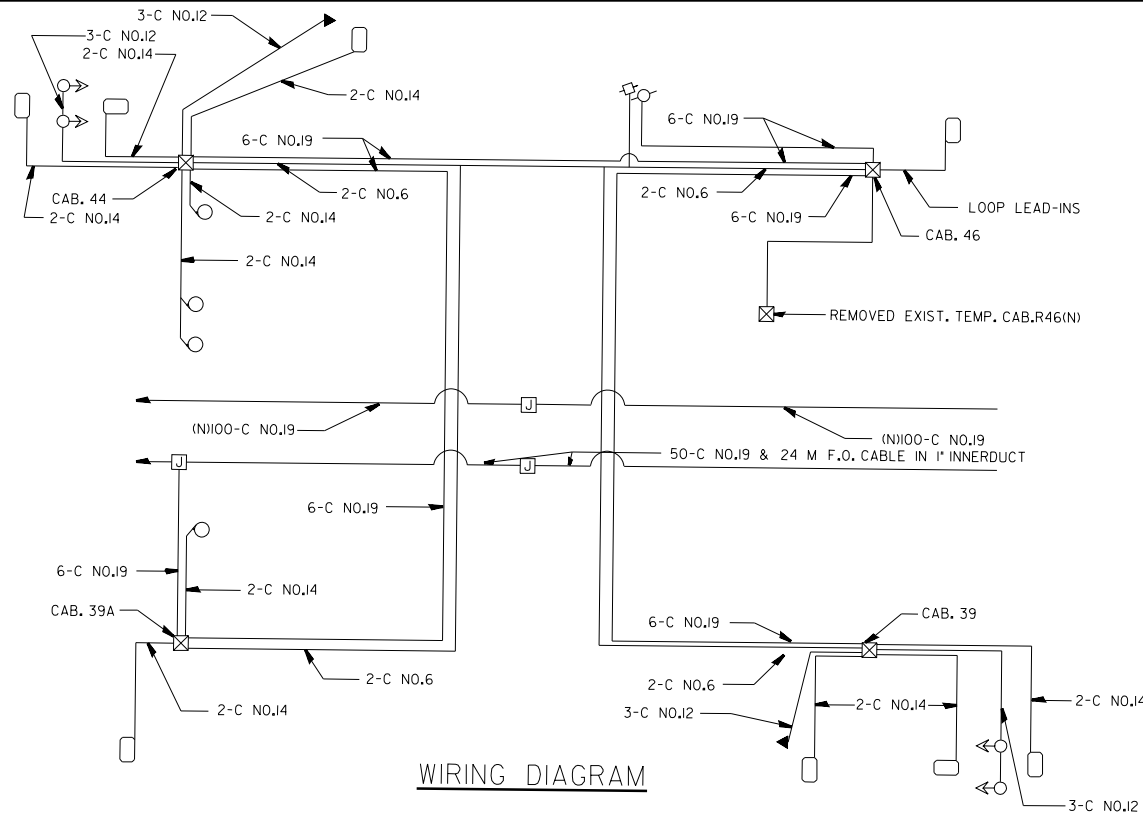
TRAFFIC SYSTEMS CENTER



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



FOR INFORMATION ONLY



REVISIONS	
NAME	DATE
	2013

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY  
**DIVISION AVE.**

SCALE: VERT. 50:1  
HORIZ. 50:1

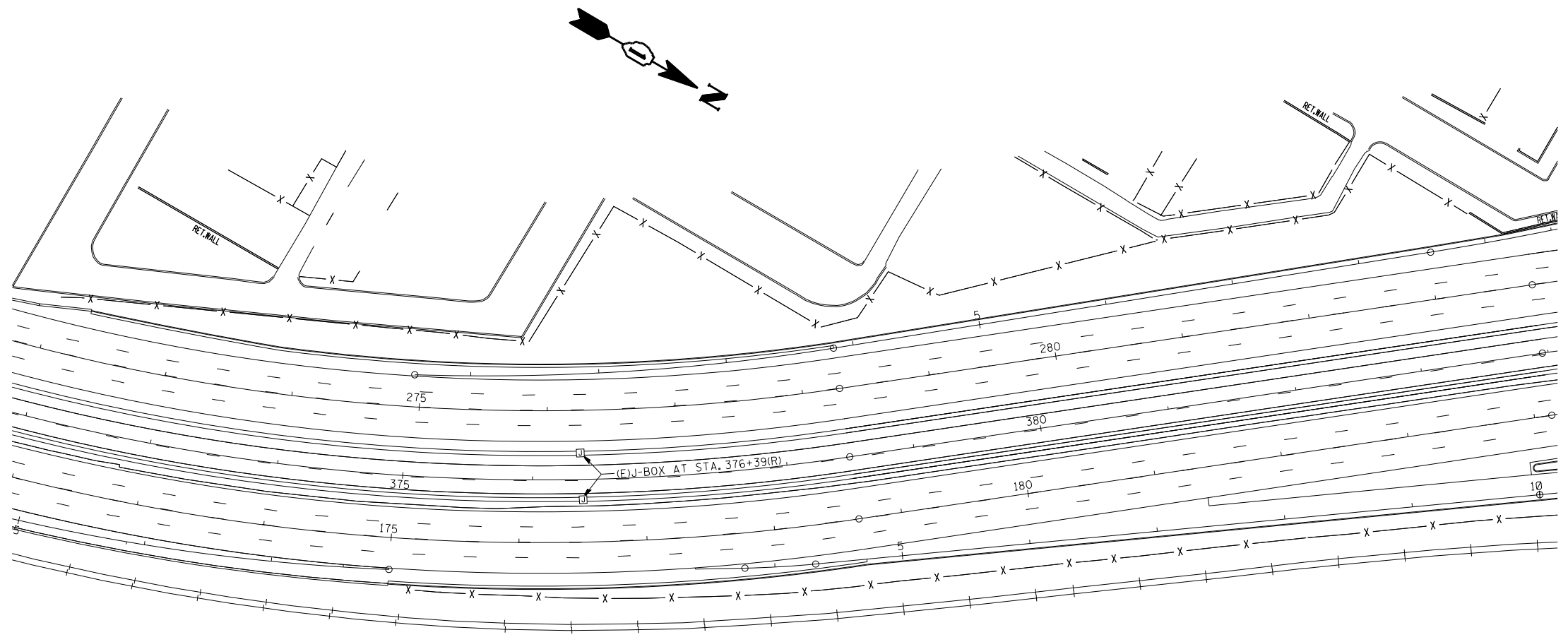
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CHECKED BY

TRAFFIC SYSTEMS CENTER

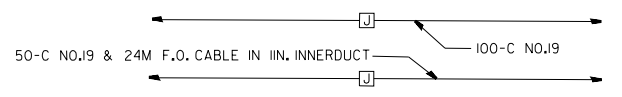


F. & D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-055BR		107	99D
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



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



WIRING DIAGRAM

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
	2013

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY

STA. 375+00

SCALE: VERT. 50:1  
HORIZ. 50:1

DATE

DRAWN BY G.M.  
CHECKED BY

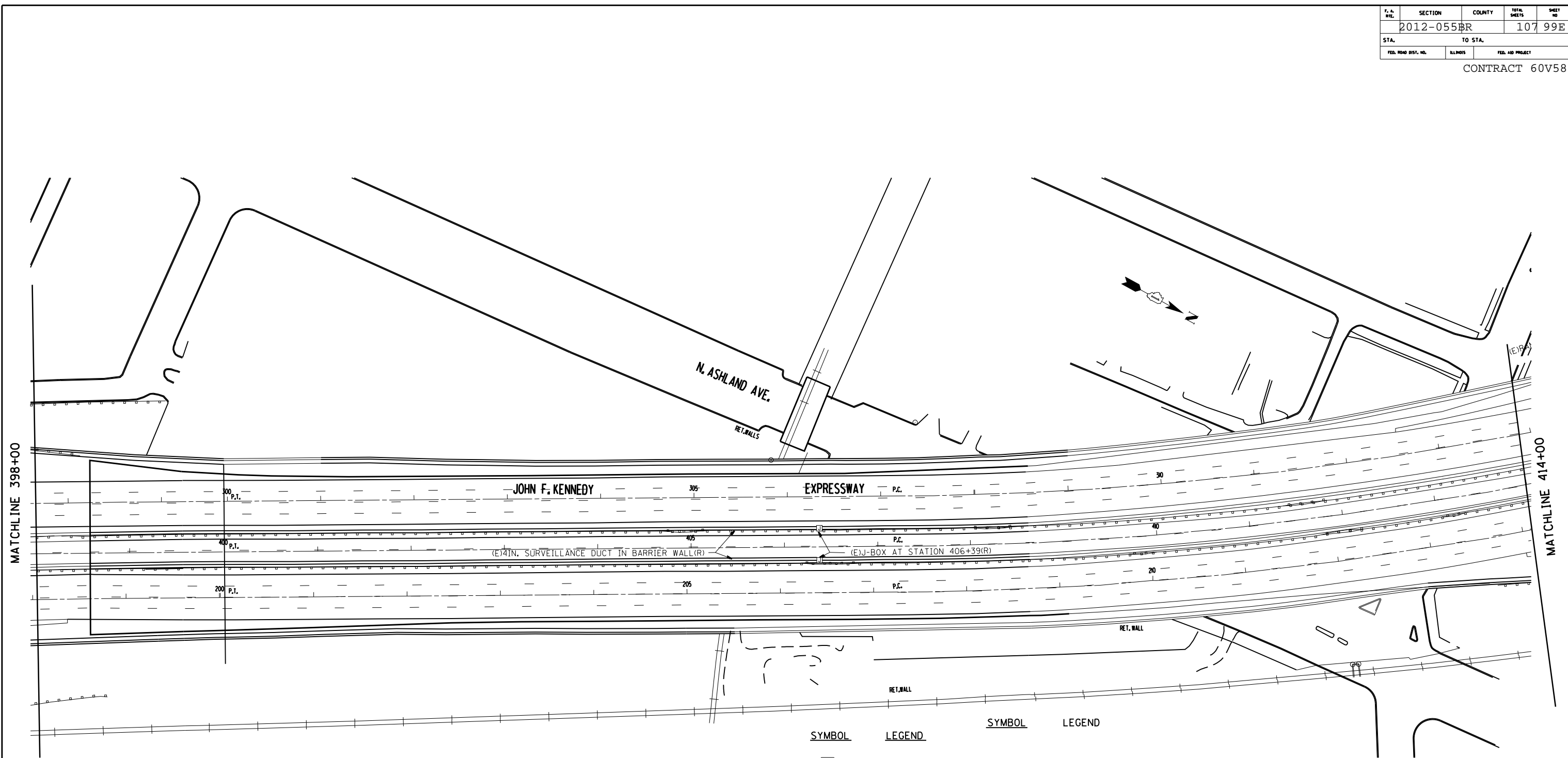
TRAFFIC SYSTEMS CENTER

RD=200ROAD.DGN  
RF=

V1=

F. & B. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-055BR		107	99E
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



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

**FOR INFORMATION ONLY**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 KENNEDY  
 N. ASHLAND AVE.  
 SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 2-19-91  
 DRAWN BY G.M.  
 CHECKED BY D.S.

TRAFFIC SYSTEMS CENTER

RF-AS04IF.DGN,ASH

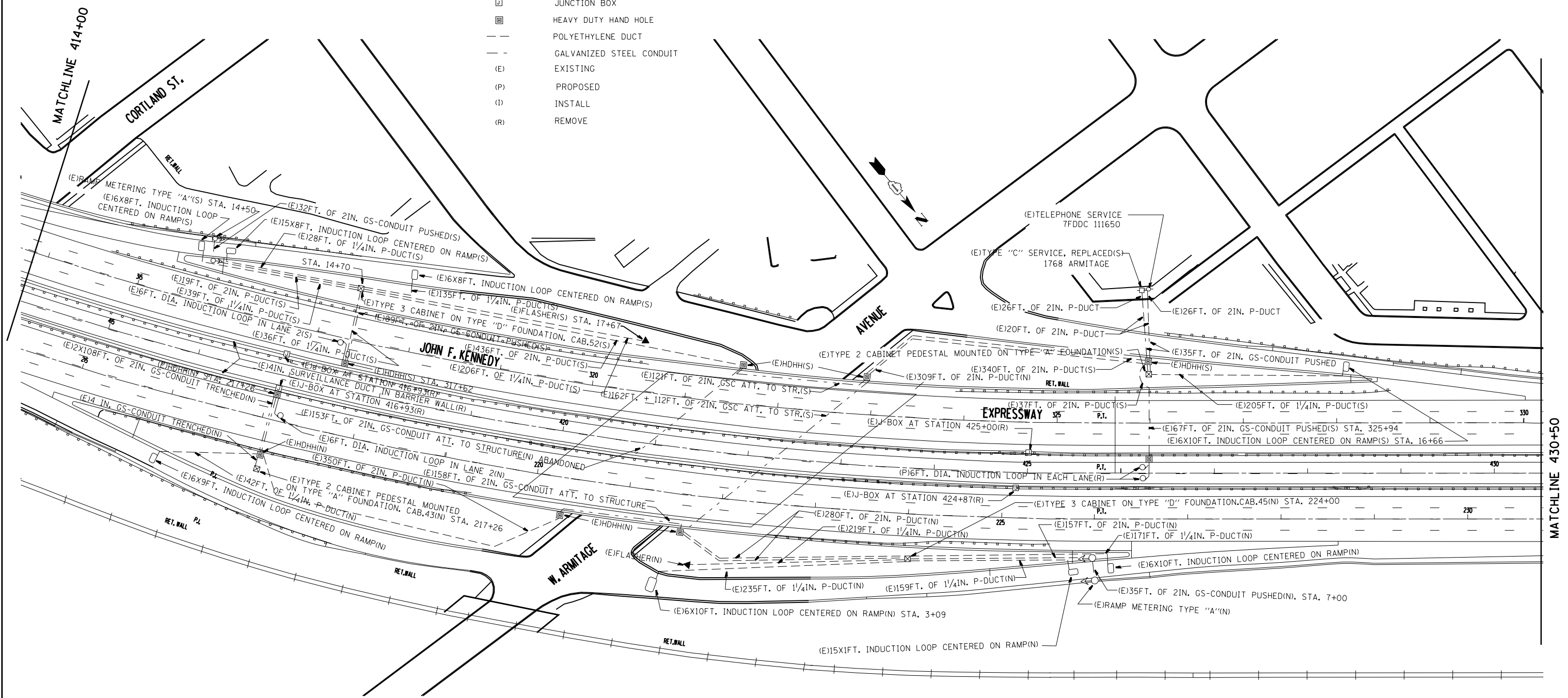
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F. & S. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-055BR		107	99F
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58

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



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 KENNEDY  
 ARMITAGE  
 INSTALLATION

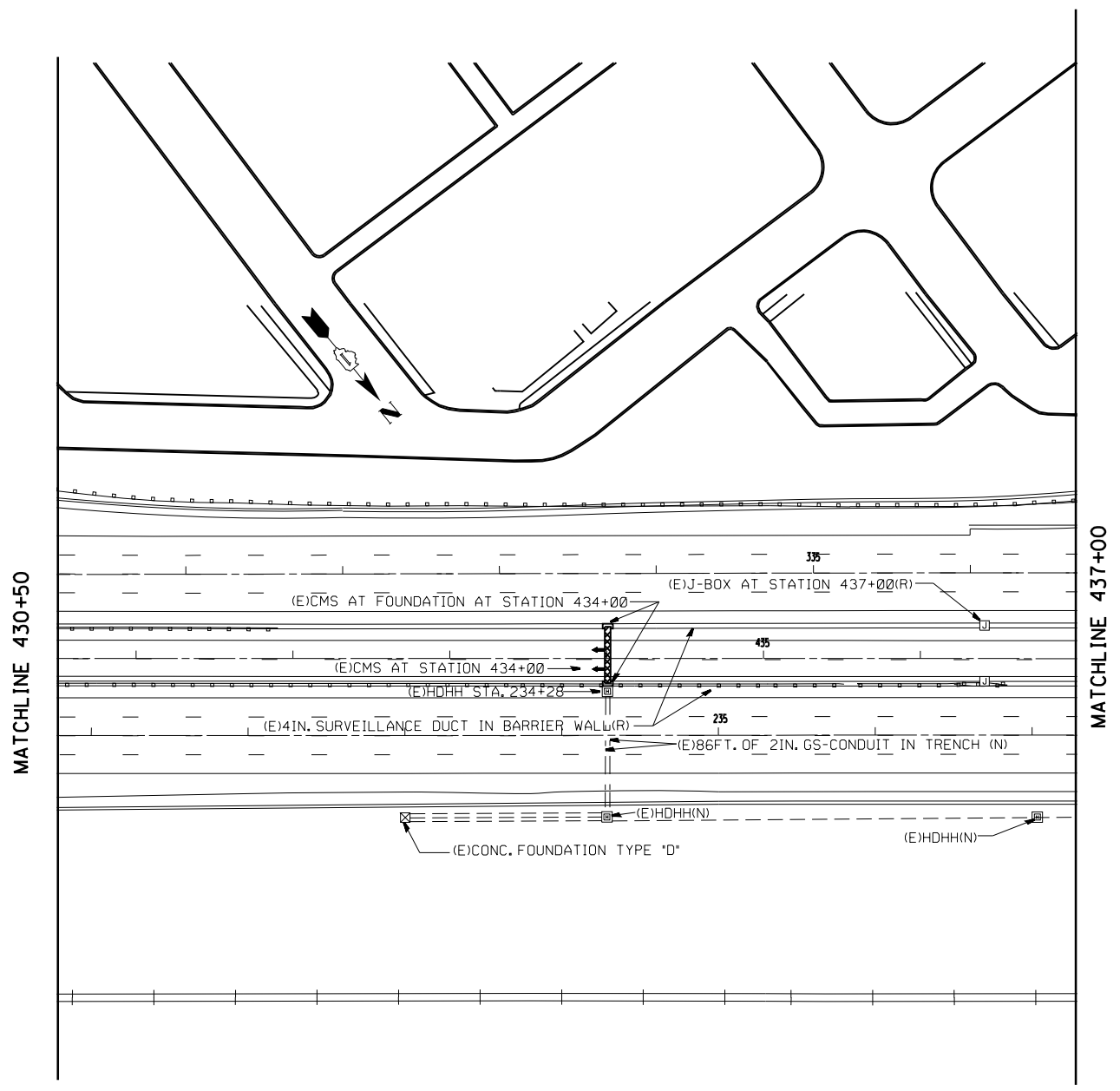
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 HORIZ. 50:1  
 DATE 2-19-91

DRAWN BY G.M.  
 CHECKED BY D.S.

VI-ARM

TRAFFIC SYSTEMS CENTER

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



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY

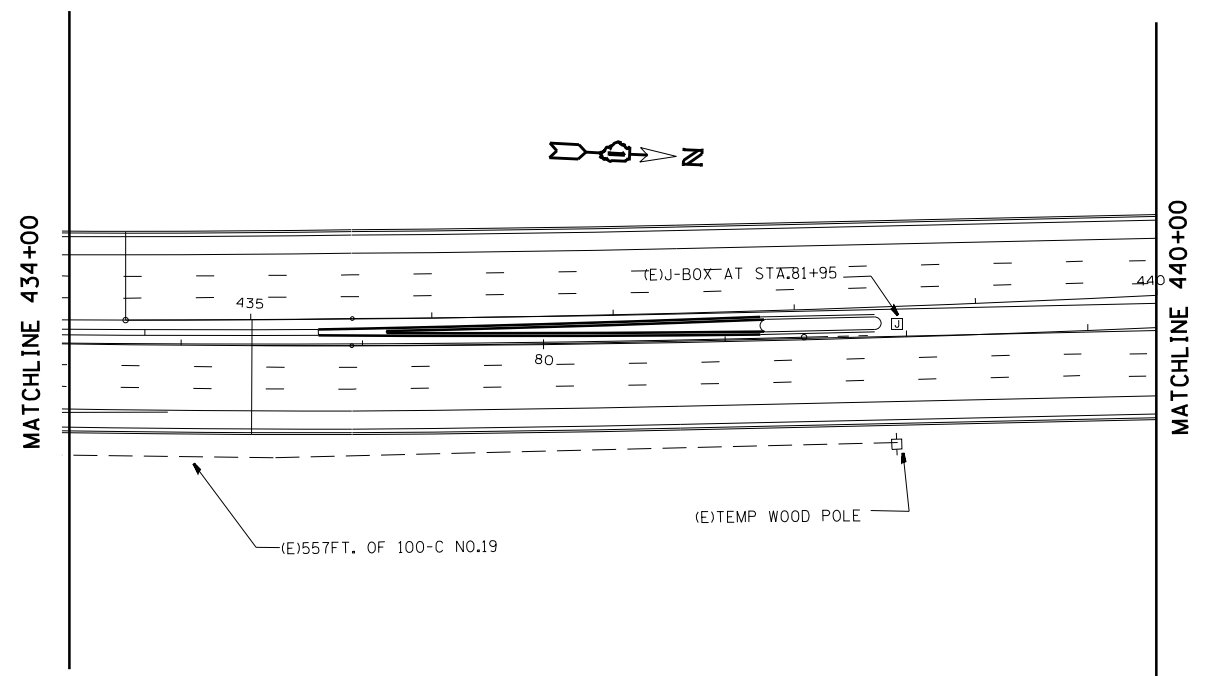
STA. 430+50

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 2-19-91

DRAWN BY G.M.  
CHECKED BY D.S.

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	99H
STA.	434+00	TO STA.	440+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 EDENS  
 STA. 434+00

SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 9-26-90

DRAWN BY GM  
 CHECKED BY DS

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 PLOT FILE = VFKN2.DWG

VI-440

TRAFFIC SYSTEMS CENTER

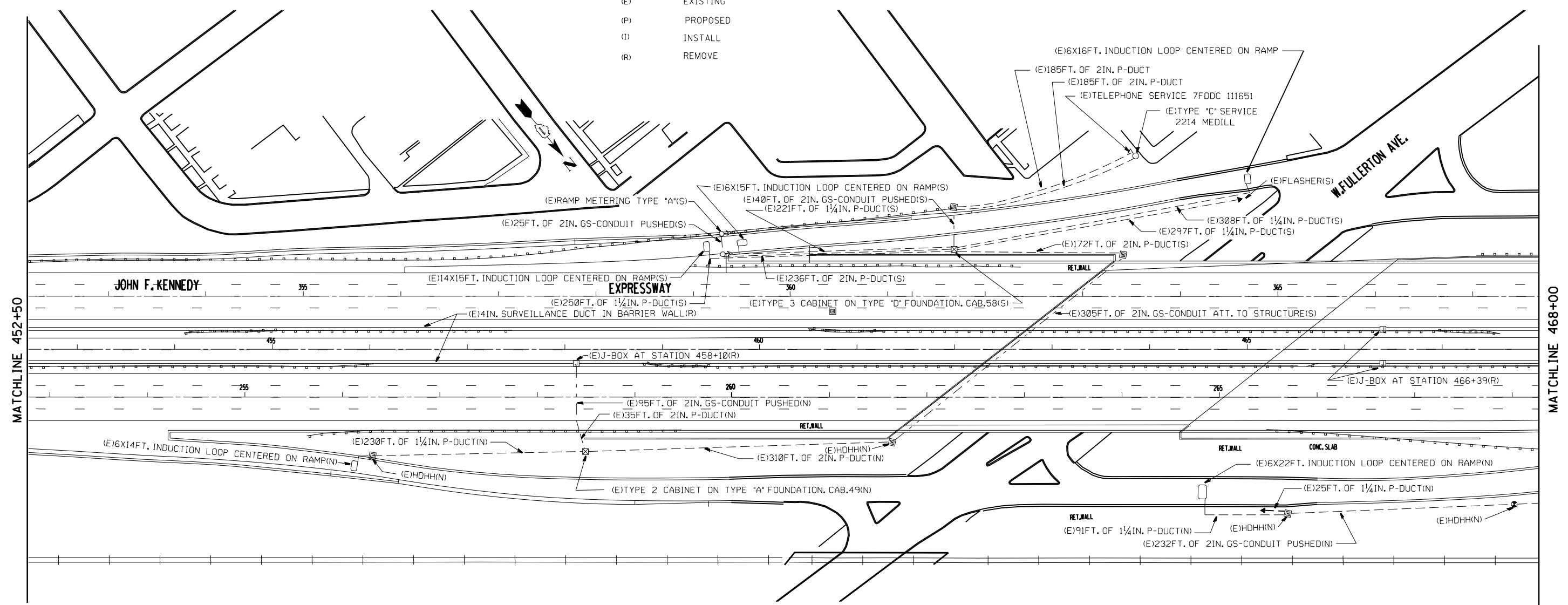




F. & B. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-055BR		107	99J
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58

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



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

TRAFFIC SYSTEMS CENTER  
KENNEDY  
FULLERTON  
INSTALLATION

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 2-19-91

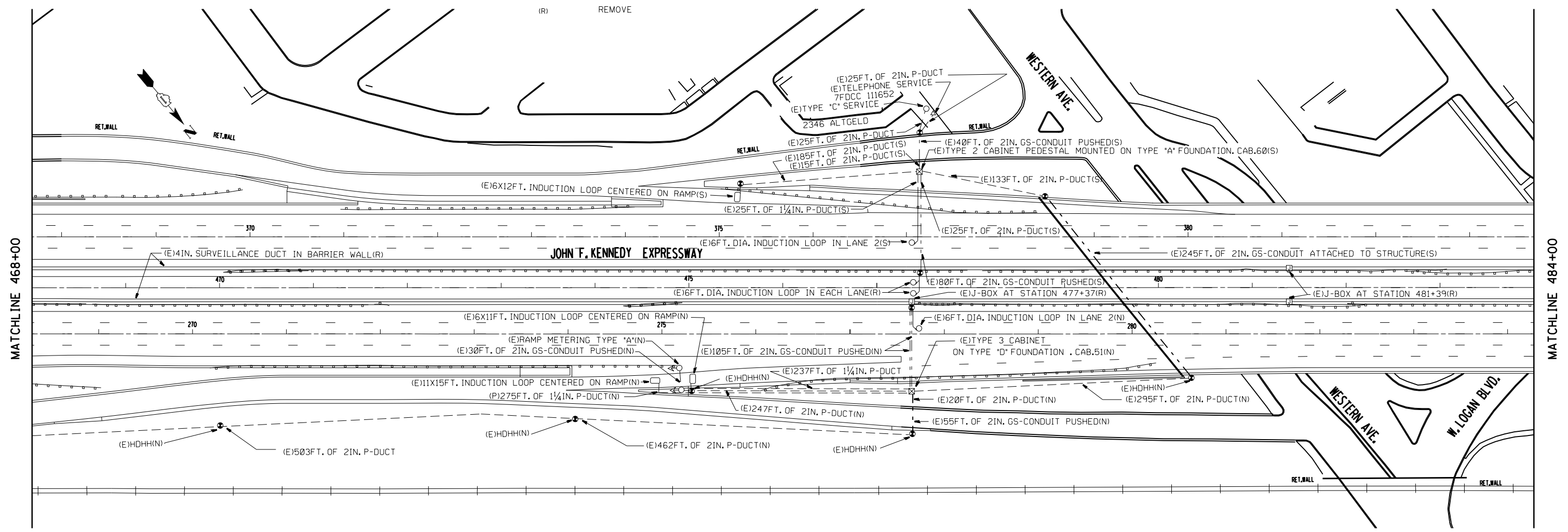
DRAWN BY G.M.  
CHECKED BY D.S.

VI=FULL

TRAFFIC SYSTEMS CENTER

F. & S. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-055BR		107	99K
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 60V58				

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



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

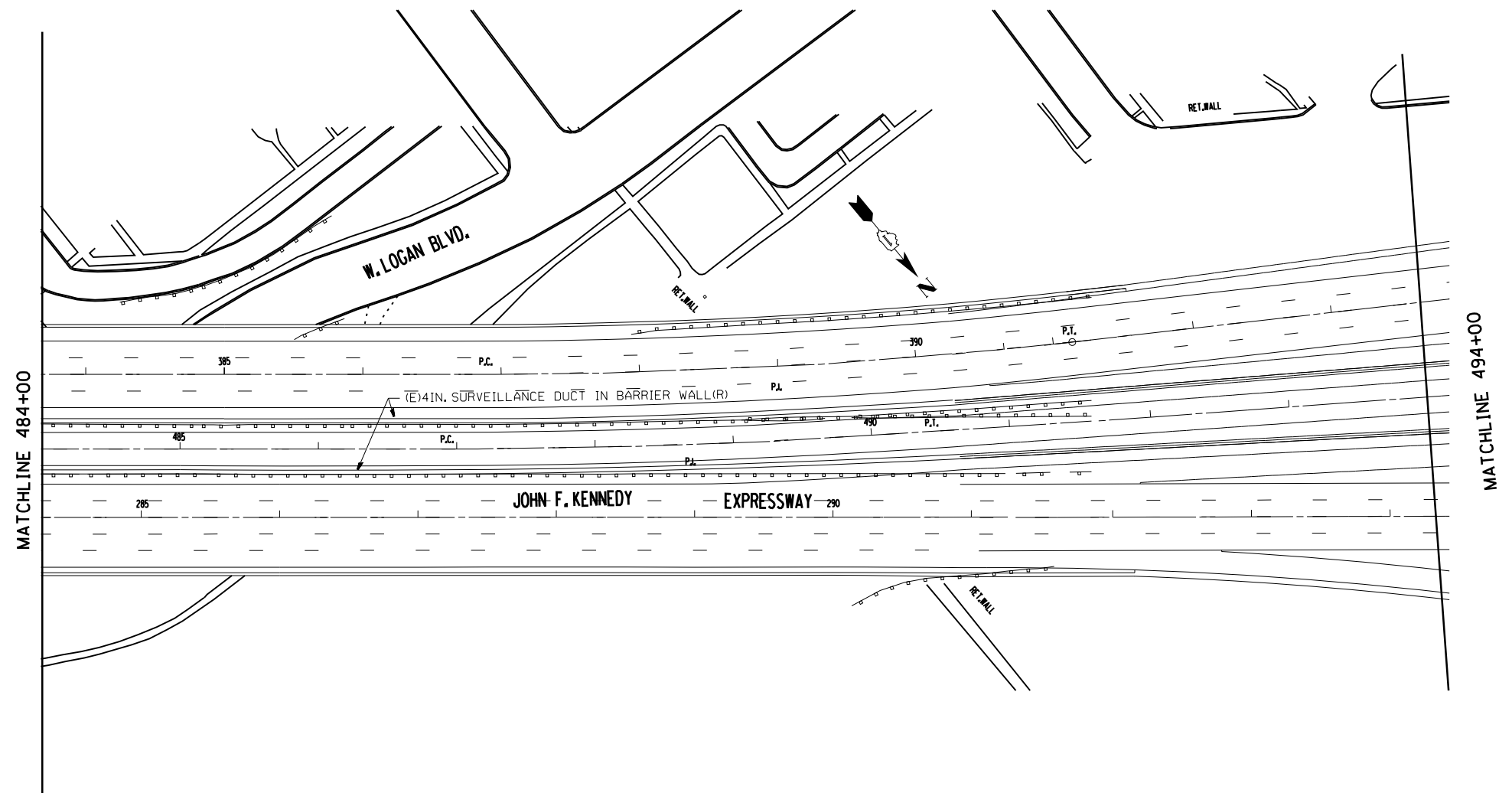
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY  
**WESTERN  
INSTALLATION**

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 2-19-91

DRAWN BY C.M.  
CHECKED BY D.S.

RFKKN1.DGN 3/11/2013 2:55:02 PM User=mezag

F. & D. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-055BR		107	99L
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 60V58				



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

FOR INFORMATION ONLY

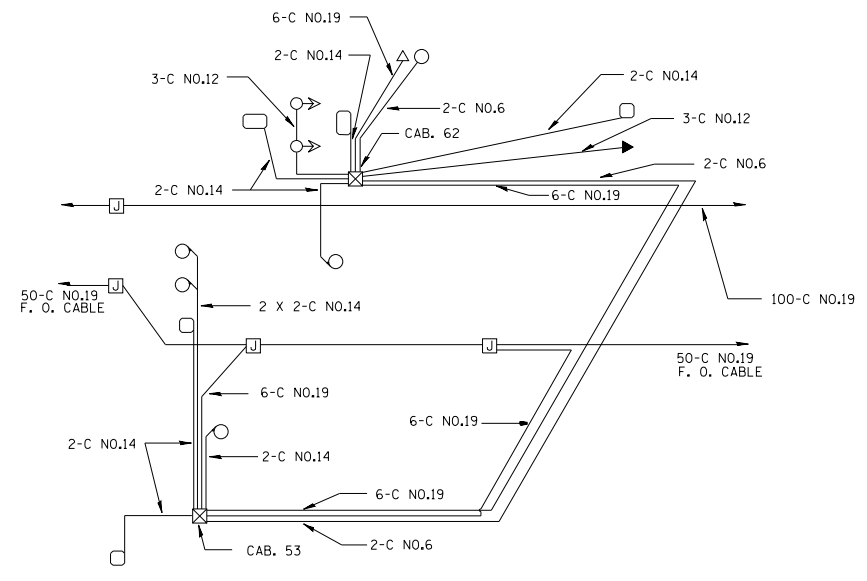
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

**KENNEDY**  
**LOGAN BLVD.**

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 2-19-91

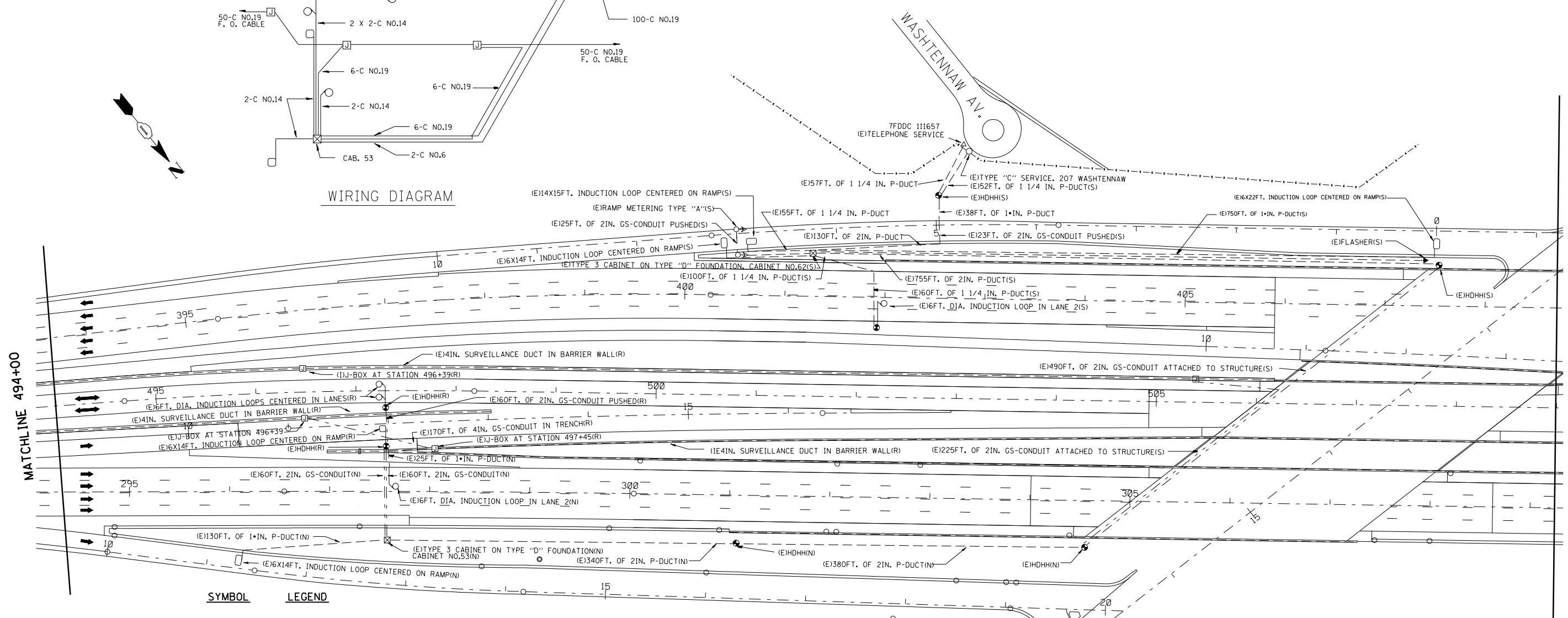
DRAWN BY G.M.  
CHECKED BY D.S.



WIRING DIAGRAM

NOTES:

- 1) GS-CONDUIT PUSHED OR TRENCHED UNDER ROADWAY SHOULD TERMINATE AT A HANDHOLE, OR CABINET FOUNDATION.
- 2) INDUCTION LOOPS SHALL BE SPLICED IN HANHOLES OR LOOP WIRE WILL RUN DIRECTLY TO CABINETS.



SYMBOL LEGEND

- INDUCTION LOOP
- ROUND INDUCTION LOOP
- ⊠ TSC CABINET
- △ TELEPHONE SERVICE
- SERVICE INSTALLATION
- ⊠ JUNCTION BOX
- HEAVY DUTY HAND HOLE
- P-DUCT
- GS-CONDUIT
- (E) EXISTING
- (P) PROPOSED
- ⊠ INSTALL
- ▶ FLASHER
- ➔ RAMP METER

- (R) - TO BE INSTALLED WITH REVERSIBLE LANE CONTRACT
- (N) - TO BE INSTALLED WITH NORTHWEST BOUND CONTRACT
- (S) - TO BE INSTALLED WITH SOUTHEAST BOUND CONTRACT

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

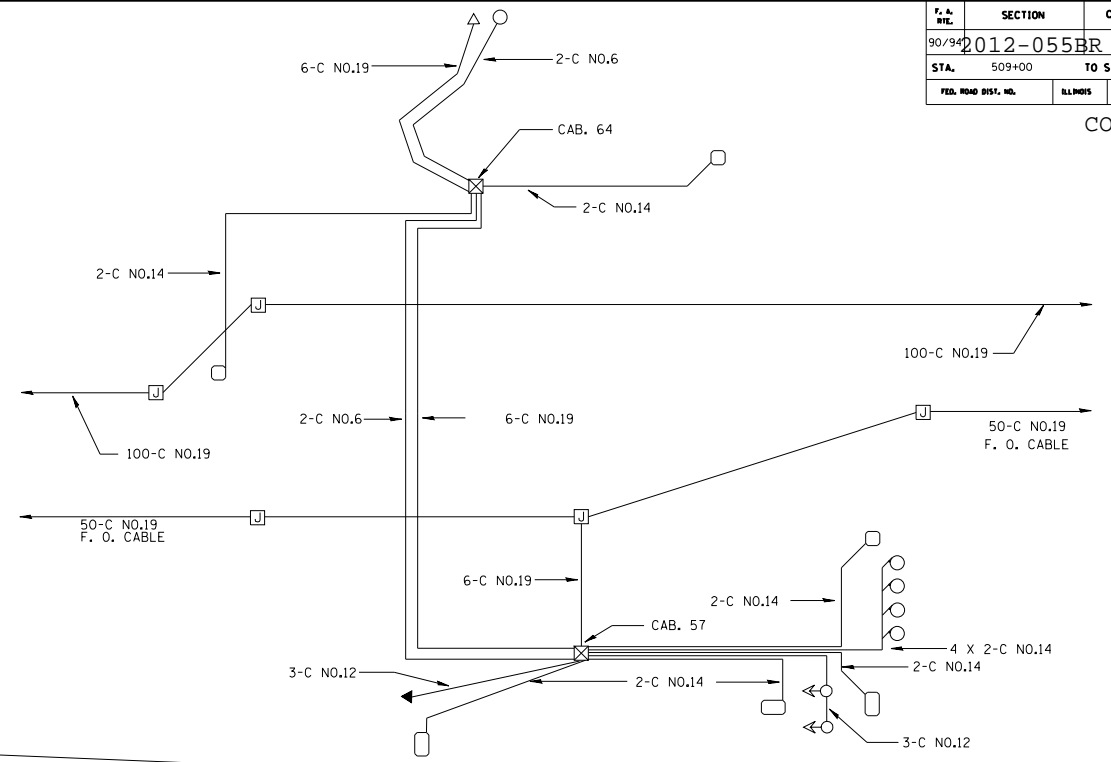
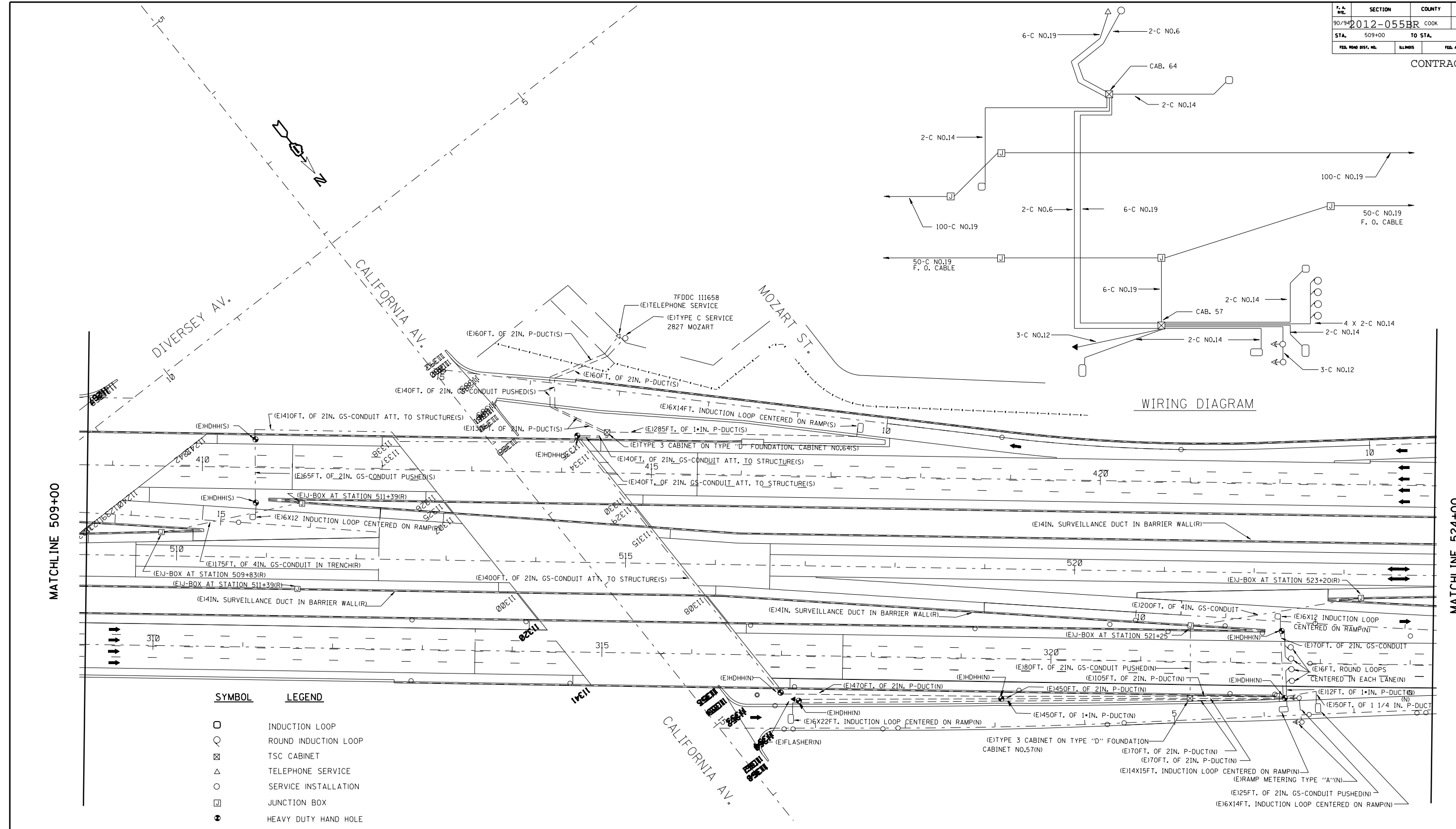
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY  
DIVERSEY AVE.  
INSTALLATION

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 2-21-91

DRAWN BY G.M.  
CHECKED BY D.S.

F. & B. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9/0/94	2012-055BR	COOK	107	99N
STA. 509+00	TO STA. 524+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



WIRING DIAGRAM

SYMBOL	LEGEND
□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊠	TSC CABINET
△	TELEPHONE SERVICE
○	SERVICE INSTALLATION
⊠	JUNCTION BOX
●	HEAVY DUTY HAND HOLE
---	P-DUCT
---	GS-CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
▶	FLASHER
➡	RAMP METERING

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
**KENNEDY CALIFORNIA AVE. INSTALLATION**

SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 2-21-91

DRAWN BY G.M.  
 CHECKED BY D.S.

TRAFFIC SYSTEMS CENTER

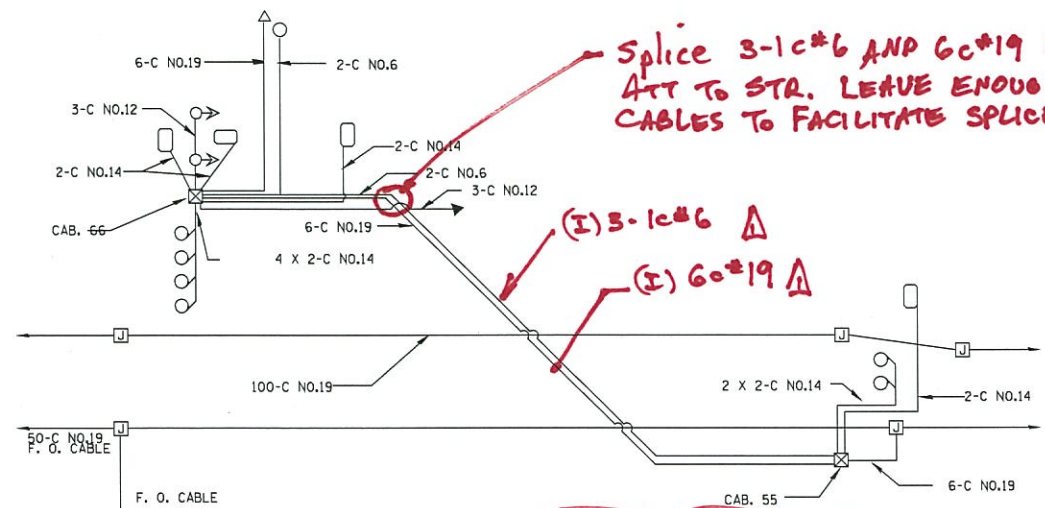
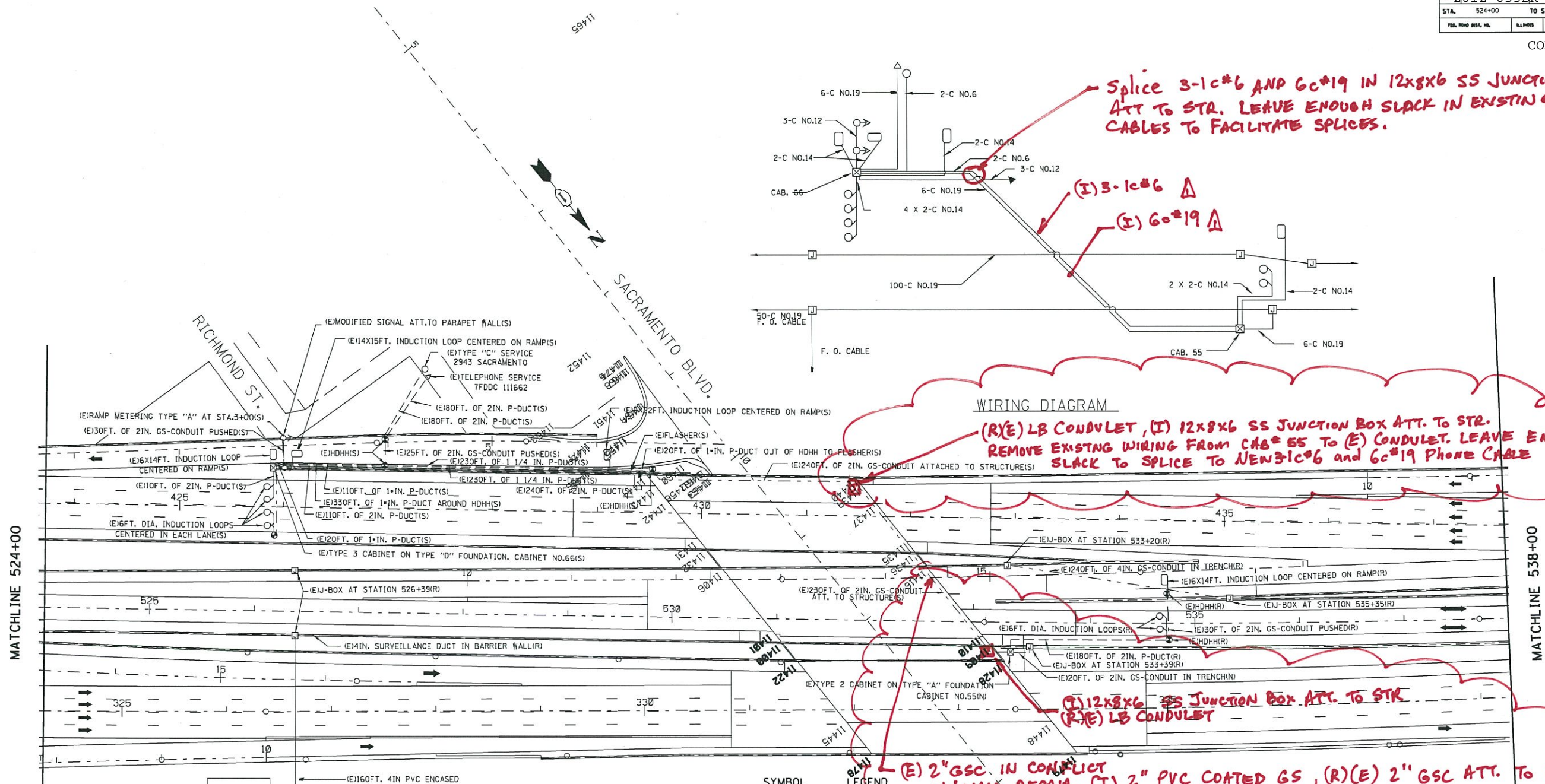
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 RF= NWBPROP.DGN, ADDISON

VI= CAL



P. & S. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/53	2012-055BR	COOK	107	990
STA.	524+00	TO STA.	538+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



Splice 3-1c#6 AND 6c#19 IN 12x8x6 SS JUNCTION BOX ATT TO STR. LEAVE ENOUGH SLACK IN EXISTING CABLES TO FACILITATE SPLICES.

WIRING DIAGRAM

(R)(E) LB CONDULET, (I) 12x8x6 SS JUNCTION BOX ATT. TO STR. REMOVE EXISTING WIRING FROM CAB# 55 TO (E) CONDULET. LEAVE ENOUGH SLACK TO SPLICE TO NEW 3c#6 and 6c#19 PHONE CABLE

(I) 12x8x6 SS JUNCTION BOX ATT. TO STR (R)(E) LB CONDULET

(E) 2" GSC IN CONFLICT W/ WALL REPAIR. (I) 2" PVC COATED GS, (R)(E) 2" GSC ATT. TO STR.

SYMBOL LEGEND

□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊗	TSC CABINET
△	TELEPHONE SERVICE
○	SERVICE INSTALLATION
⊠	JUNCTION BOX
●	HEAVY DUTY HAND HOLE
---	P-DUCT
- - -	GS-CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
▶	FLASHER
⊙	RAMP METERING

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE
RL	3/1/13

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY  
SACRAMENTO BLVD.  
INSTALLATION

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 2-21-91

DRAWN BY G.M.  
CHECKED BY D.S.

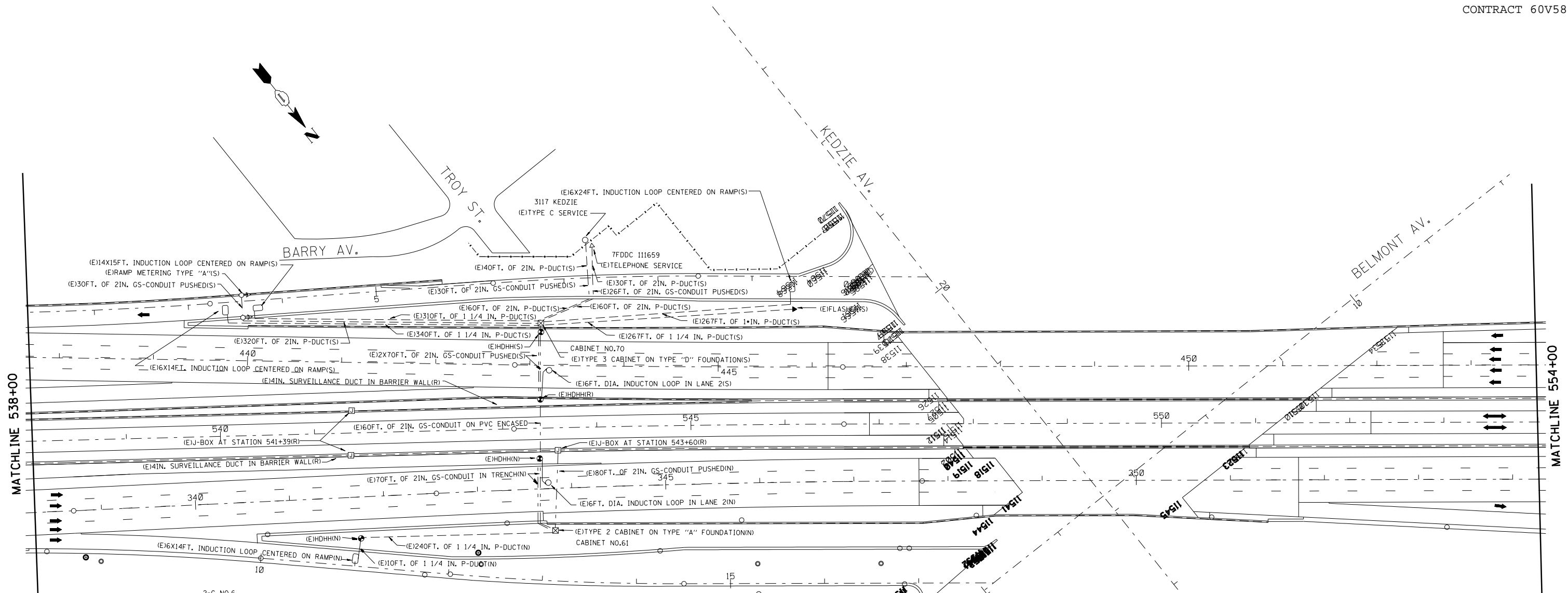
TRAFFIC SYSTEMS CENTER

RD=RFKENZ.DGN  
RF=INWPROP.DGN,SAC

VI=SAC

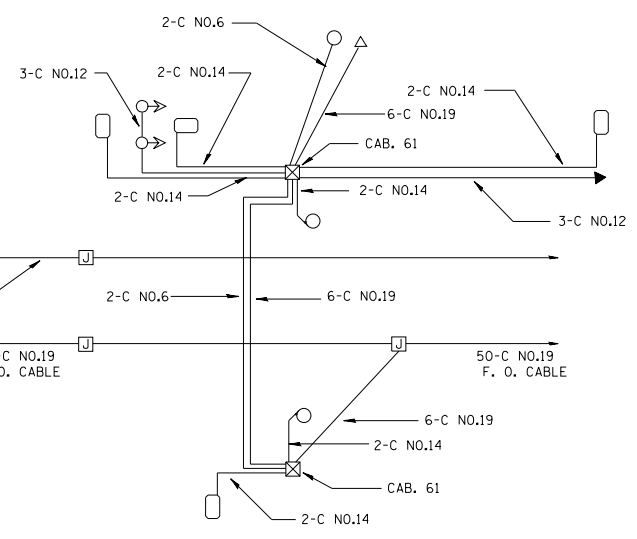
F. & B. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	99P
STA.	538+00	TO STA.	554+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



MATCHLINE 538+00

MATCHLINE 554+00



WIRING DIAGRAM

**SYMBOL LEGEND**

- INDUCTION LOOP
- ROUND INDUCTION LOOP
- ⊗ TSC CABINET
- △ TELEPHONE SERVICE
- SERVICE INSTALLATION
- ⊠ JUNCTION BOX
- HEAVY DUTY HAND HOLE
- P-DUCT
- - - GS-CONDUIT
- (E) EXISTING
- (P) PROPOSED
- ▣ INSTALL
- ▶ FLASHER
- RAMP METERING

**FOR INFORMATION ONLY**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
**KENNEDY  
KEDZIE AVE.  
INSTALLATION**

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 2-21-91

DRAWN BY G.M.  
CHECKED BY D.S.

TRAFFIC SYSTEMS CENTER

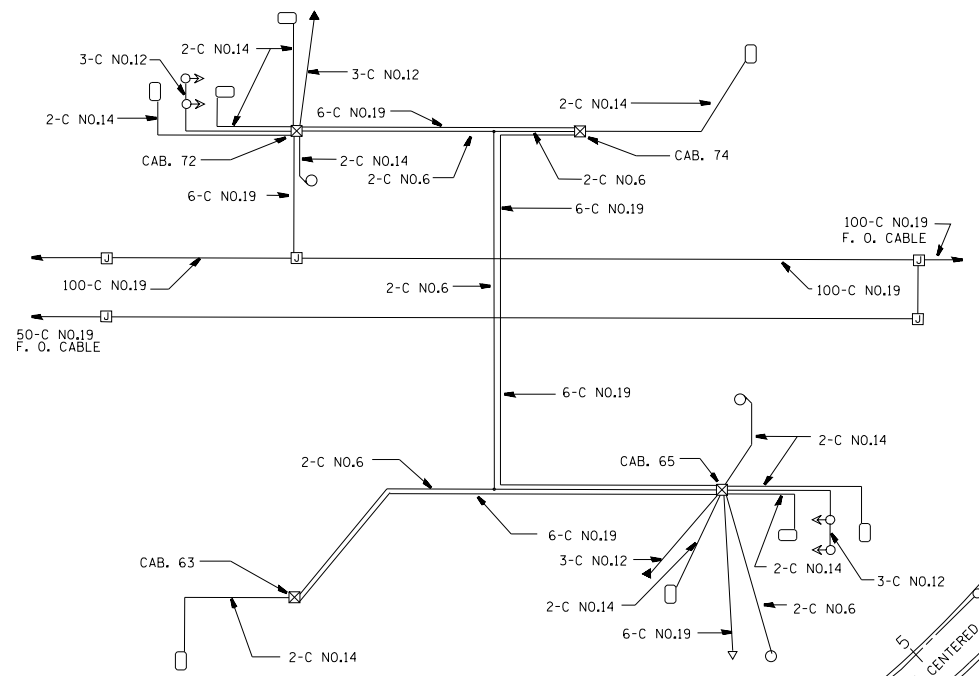
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RF=INBPROP.DGN,KED

VI= KED



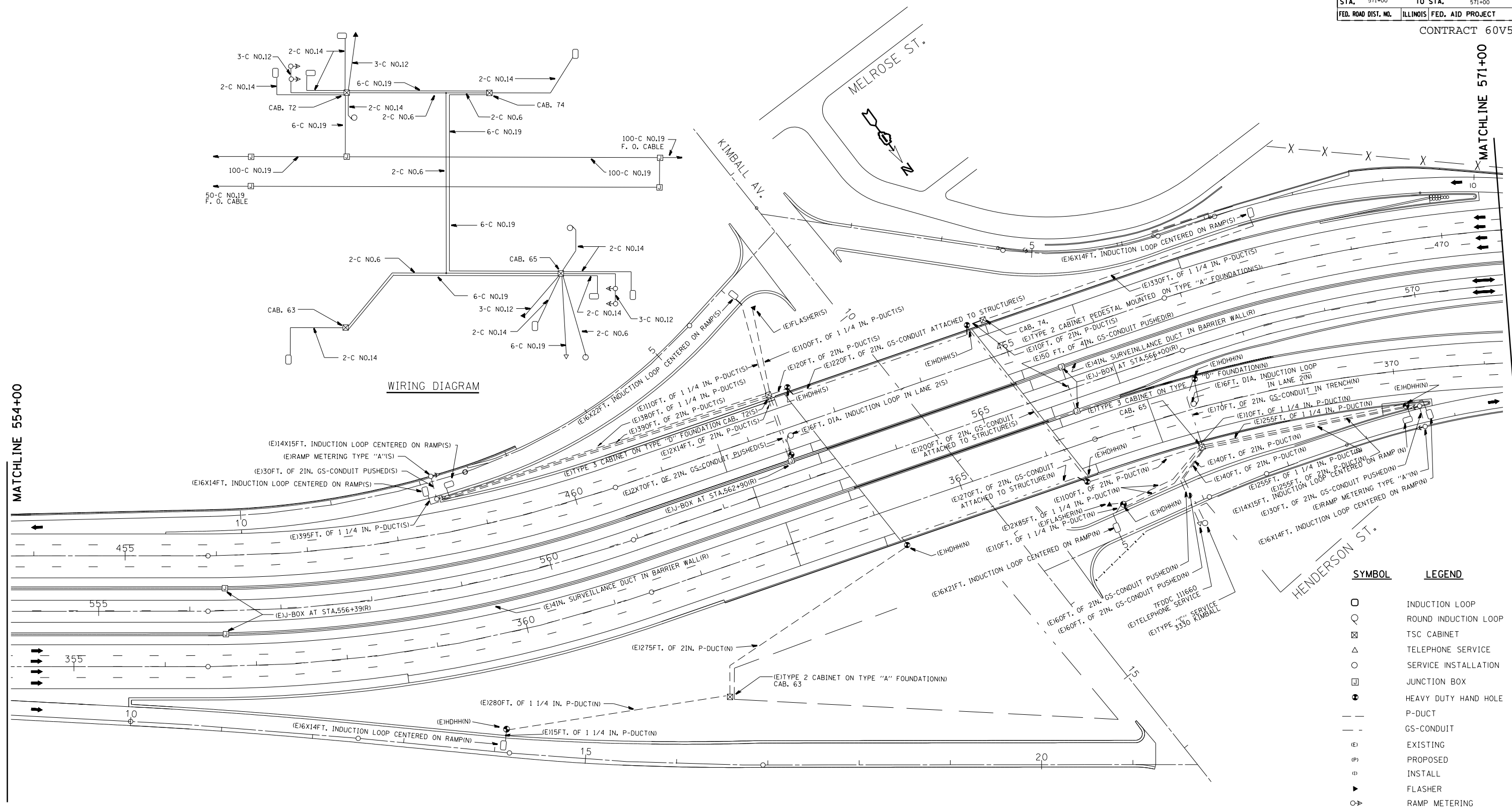
CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	990
STA.	TO STA.		571+00	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACT 60V58



MATCHLINE 554+00

MATCHLINE 571+00



SYMBOL	LEGEND
□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊠	TSC CABINET
△	TELEPHONE SERVICE
○	SERVICE INSTALLATION
□	JUNCTION BOX
●	HEAVY DUTY HAND HOLE
---	P-DUCT
- - -	GS-CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
▶	FLASHER
○➔	RAMP METERING

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 KENNEDY  
**KIMBALL AVE.  
 INSTALLATION**

SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 9-26-90

DRAWN BY GM  
 CHECKED BY DS

PLOT DATE: 3/11/2013  
 FILE NAME: P:\Projects\2012\2012-055BR\mezag\mezag.dwg  
 PLOT SCALE: 1"=100'-0"

VI-KIM

TRAFFIC SYSTEMS CENTER

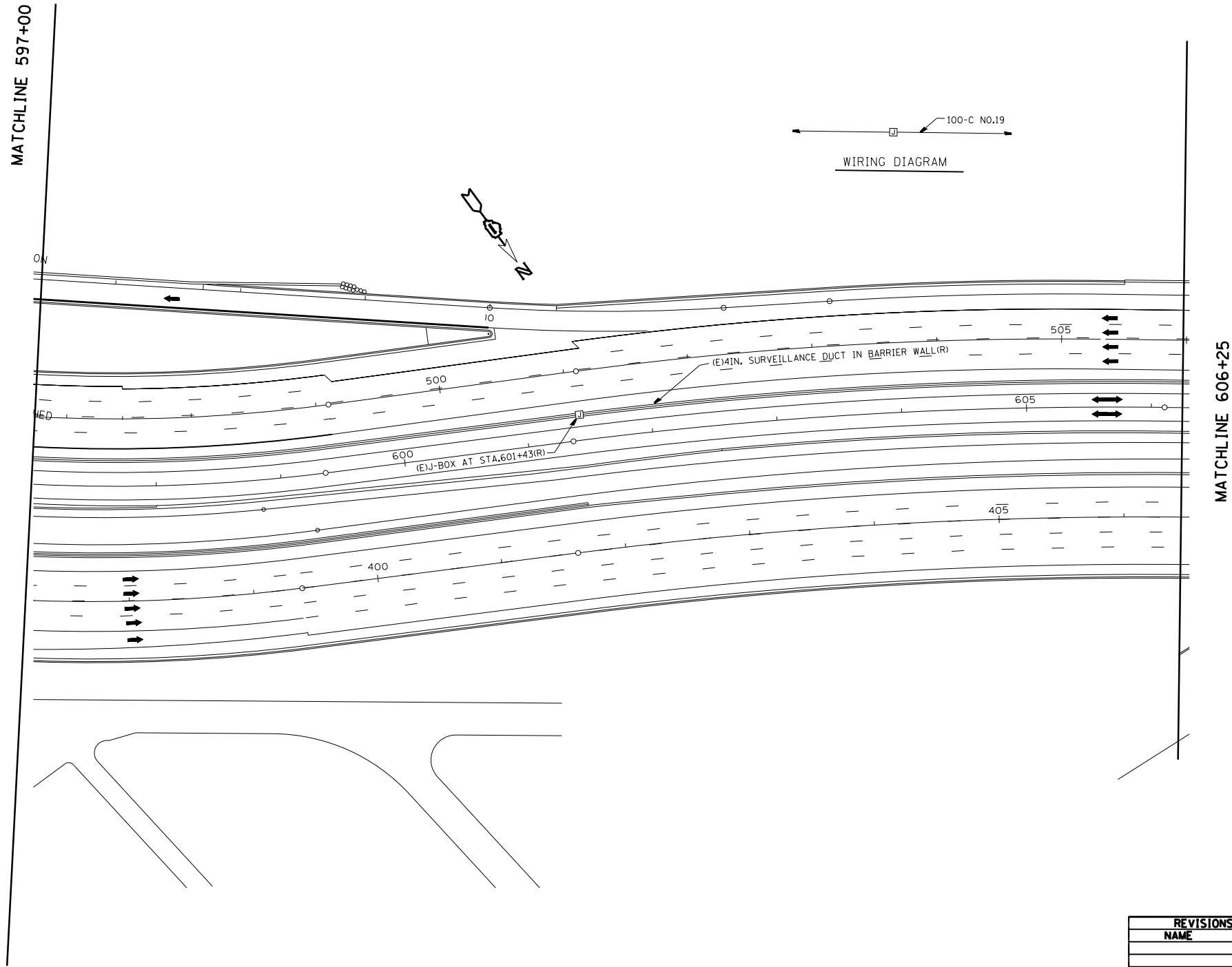






CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0/942	012-055BR	COOK	107	99T
STA.	597+00	TO STA.	606+25	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



SYMBOL	LEGEND
○	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊠	TSC CABINET
△	TELEPHONE SERVICE
○	SERVICE INSTALLATION
⊠	JUNCTION BOX
●	HEAVY DUTY HAND HOLE
---	P-DUCT
---	GS-CONDUIT
Ⓢ	EXISTING
Ⓢ	PROPOSED
Ⓢ	INSTALL
▼	FLASHER
○→	RAMP METERING

**FOR INFORMATION ONLY**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 KENNEDY  
 597+00 TO 606+25  
 SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 9-26-90  
 DRAWN BY GM  
 CHECKED BY DS

PLT DATE = 3/12/2013  
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VI-597

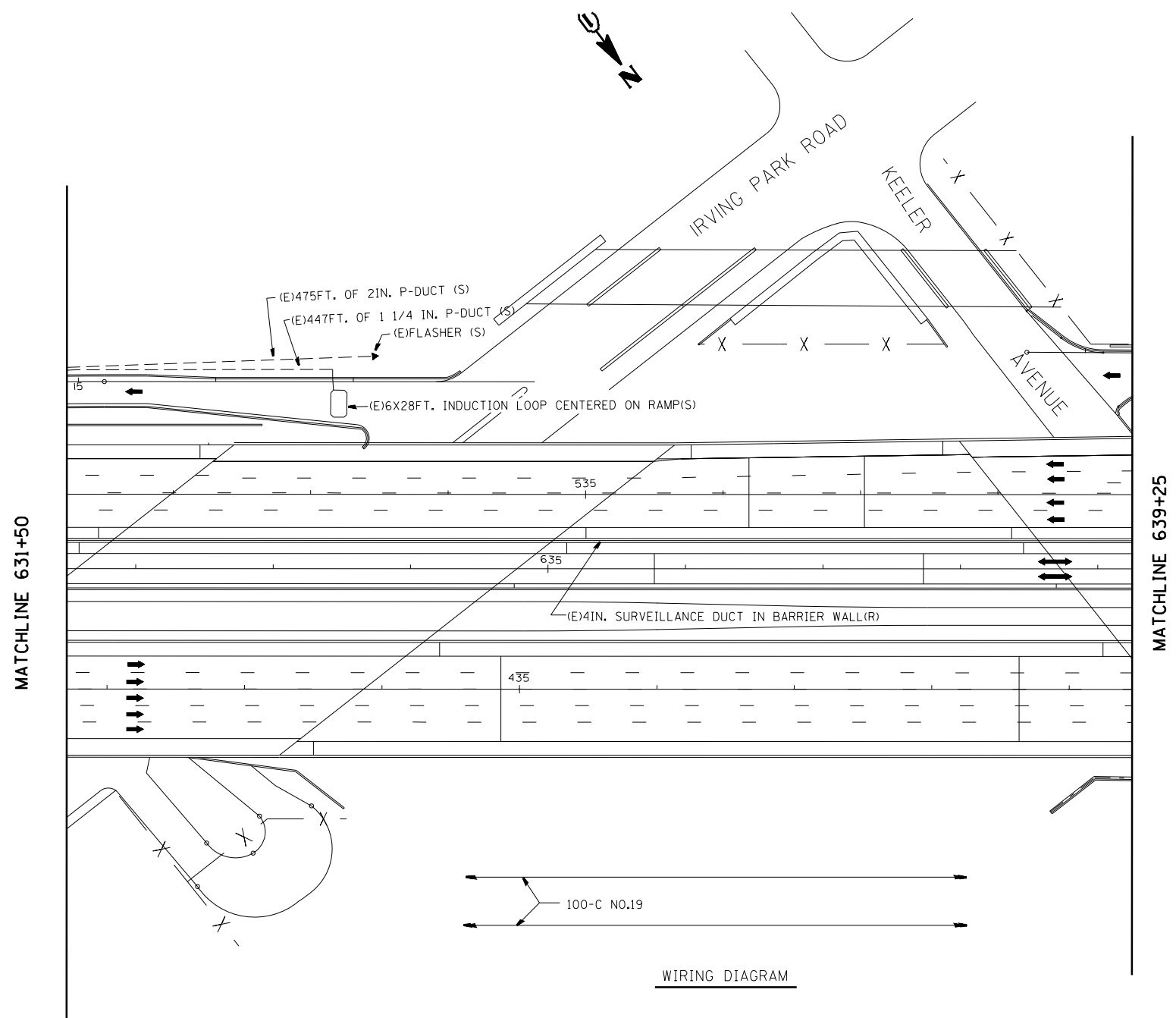
TRAFFIC SYSTEMS CENTER





CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	99W
STA.	631+50	TO STA.	639+25	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58



SYMBOL	LEGEND
○	INDUCTION LOOP
⊙	ROUND INDUCTION LOOP
⊠	TSC CABINET
△	TELEPHONE SERVICE
○	SERVICE INSTALLATION
⊠	JUNCTION BOX
⊙	HEAVY DUTY HAND HOLE
---	P-DUCT
- - -	CS-CONDUIT
(E)	EXISTING
(P)	PROPOSED
⊠	INSTALL
▶	FLASHER
○▶	RAMP METERING

WIRING DIAGRAM

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 KENNEDY  
 631+50 TO 639+25  
 IRVING PARK ROAD  
 SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 9-26-90  
 DRAWN BY GM  
 CHECKED BY DS

PLT DATE = 3/12/2013  
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 REFERENCE: ILL. DEPT. OF TRANSPORTATION, CD-639+25

VI-IRKE

TRAFFIC SYSTEMS CENTER



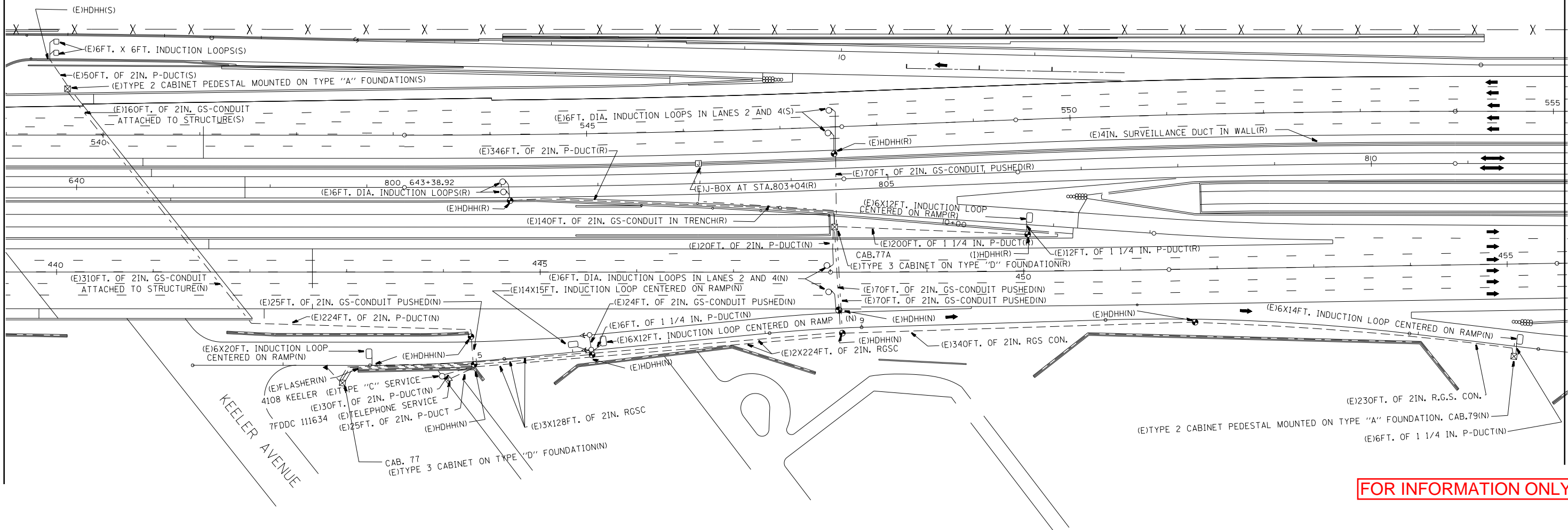
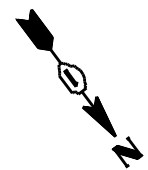
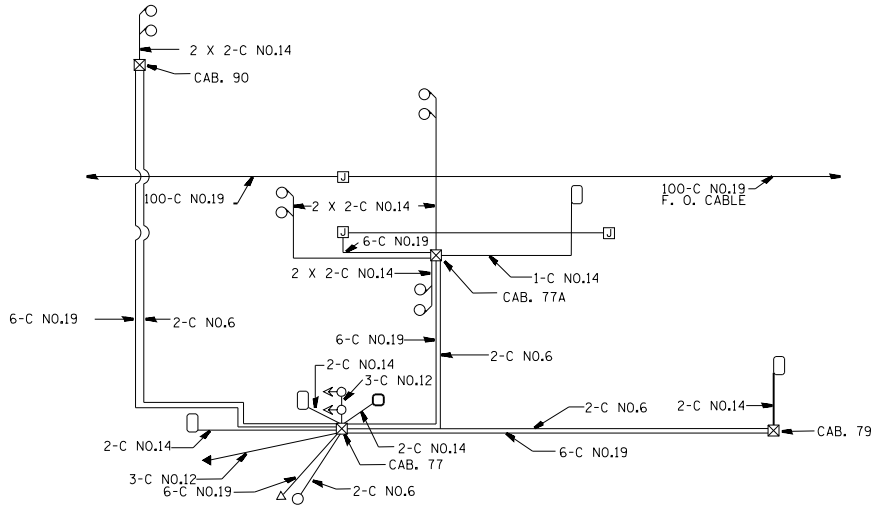
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	99X
STA.	639+25	TO STA.	812+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SYMBOL LEGEND

- INDUCTION LOOP
- ROUND INDUCTION LOOP
- ⊠ TSC CABINET
- △ TELEPHONE SERVICE
- SERVICE INSTALLATION
- ⊠ JUNCTION BOX
- HEAVY DUTY HAND HOLE
- P-DUCT
- - - GS-CONDUIT
- (E) EXISTING
- (P) PROPOSED
- (I) INSTALL
- ▶ FLASHER
- ◁ RAMP METERING

MATCHLINE 639+25

MATCHLINE 812+00



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 KENNEDY  
 KEELER AVE.  
 INSTALLATION

SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 9-26-90

DRAWN BY GM  
 CHECKED BY DS

PLOT DATE = 3/11/2013  
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 PLOT DEVICE = HPGL2  
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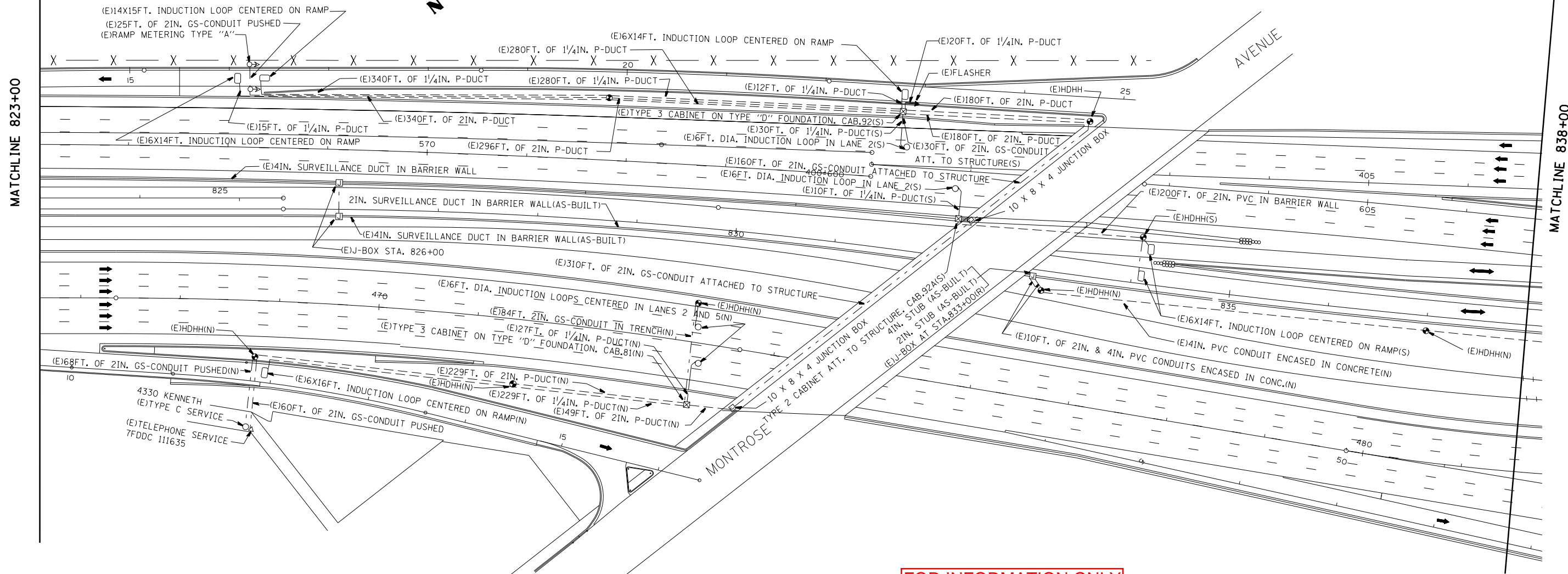
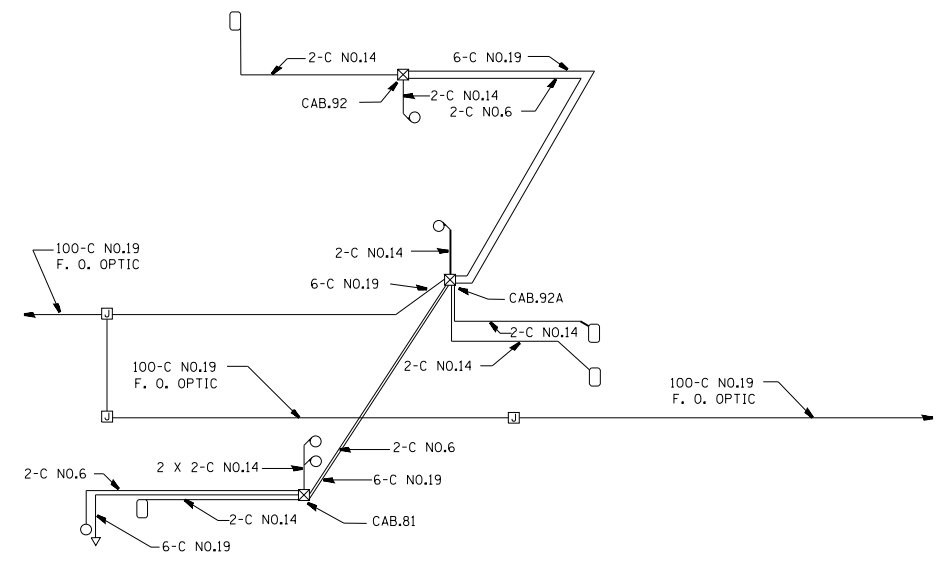




CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	99Z
STA.	823+00	TO STA.	838+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT 60V58

SYMBOL	LEGEND
□	INDUCTION LOOP
○	ROUND INDUCTION LOOP
⊠	TSC CABINET
△	TELEPHONE SERVICE
○	SERVICE INSTALLATION
⊞	JUNCTION BOX
●	HEAVY DUTY HAND HOLE
---	P-DUCT
- - -	GS-CONDUIT
(E)	EXISTING
(P)	PROPOSED
⊞	INSTALL
▶	FLASHER
⊞	RAMP METERING



\* NOTE:  
1) REUSE EXISTING TYPE "C" SERVICE, AND TELEPHONE SERVICE IF POSSIBLE.

REVISIONS	
NAME	DATE
SURVEILLANCE	5-03-94
SURVEILLANCE	7-12-94
	6-10-96

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
KENNEDY  
**MONTROSE AVE.  
INSTALLATION**

SCALE: VERT. 50:1  
HORIZ. 50:1  
DATE 5-02-94

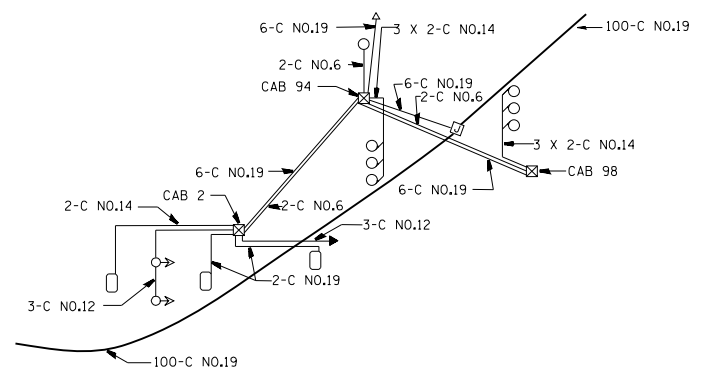
DRAWN BY G.M.  
CHECKED BY T.C.

PLOT DATE = 3/12/2013  
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 PLOT SCALE = 1/8" = 1'-0"  
 REFERENCE: MONTROSE

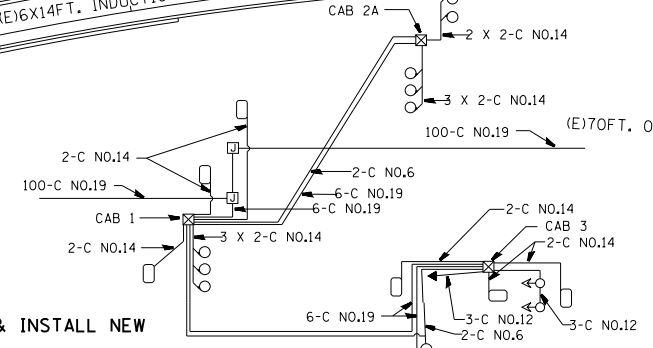
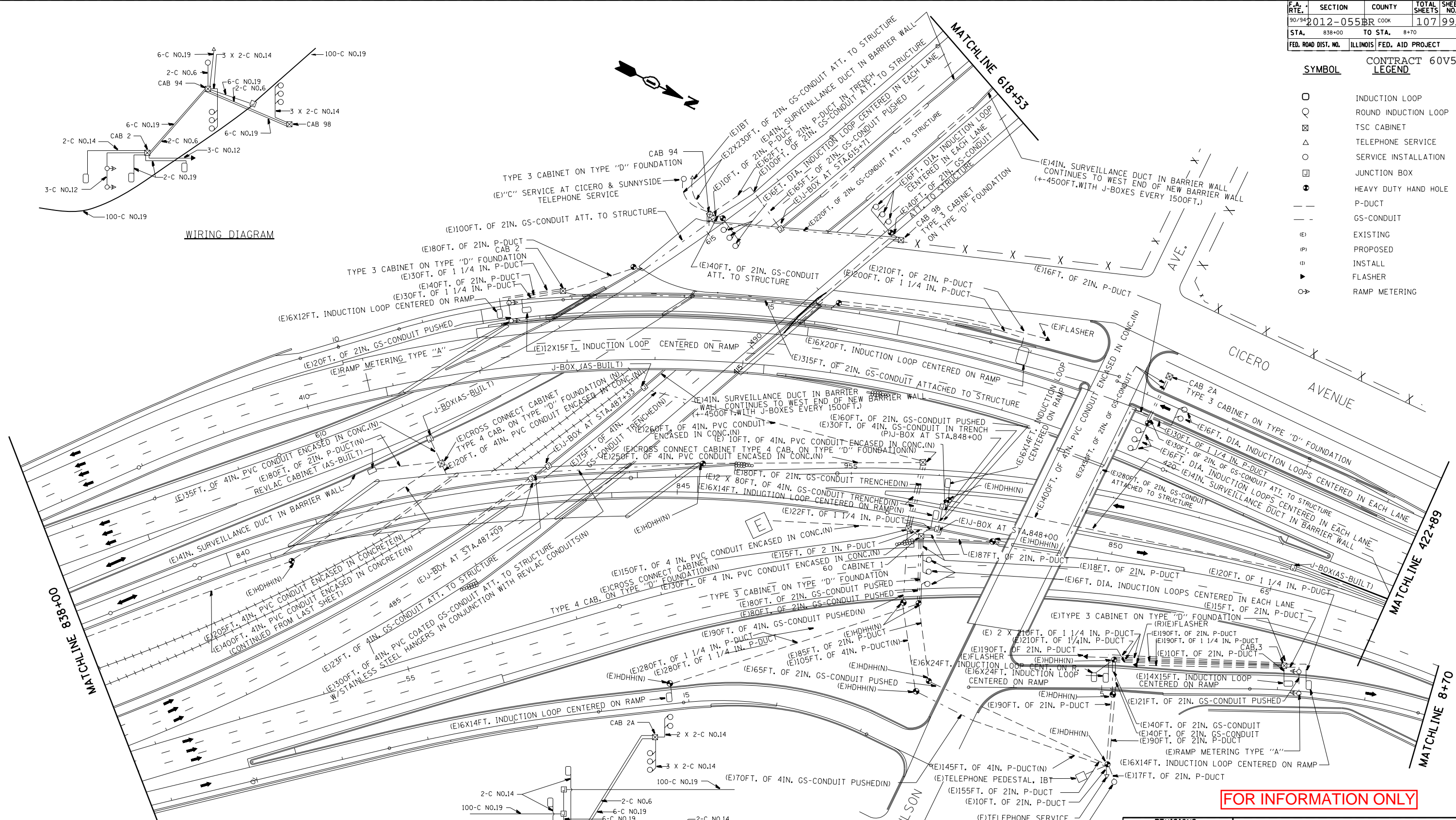
VI-MON

TRAFFIC SYSTEMS CENTER

- INDUCTION LOOP
- ROUND INDUCTION LOOP
- ⊠ TSC CABINET
- △ TELEPHONE SERVICE
- SERVICE INSTALLATION
- ⊠ JUNCTION BOX
- HEAVY DUTY HAND HOLE
- P-DUCT
- - - GS-CONDUIT
- (E) EXISTING
- (P) PROPOSED
- ⊠ INSTALL
- ▶ FLASHER
- RAMP METERING



WIRING DIAGRAM



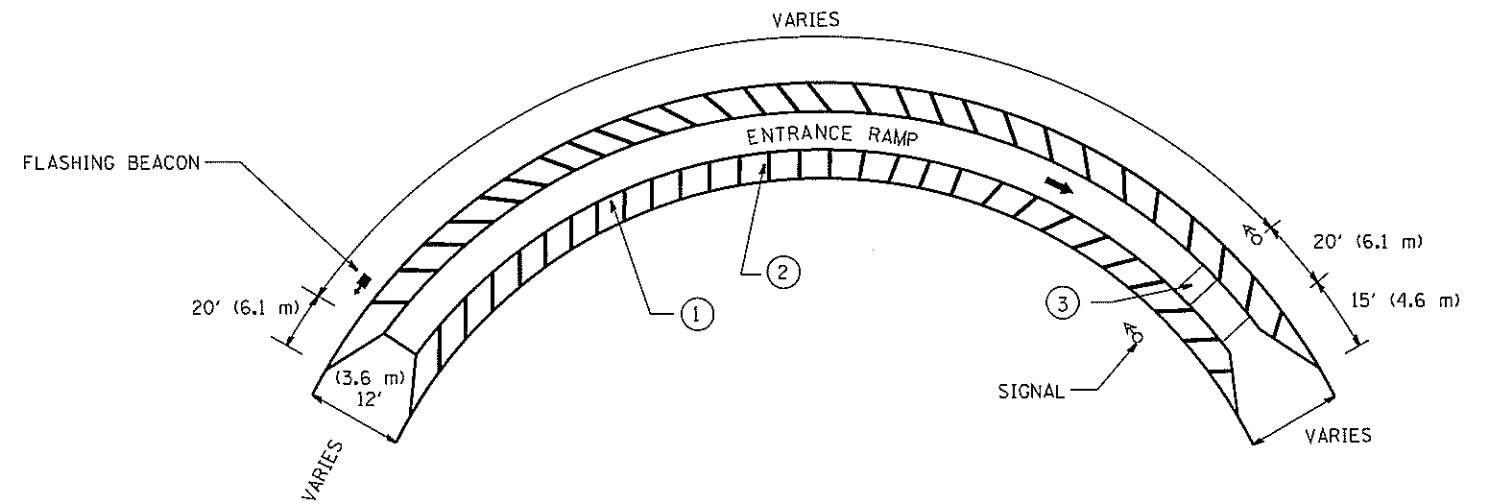
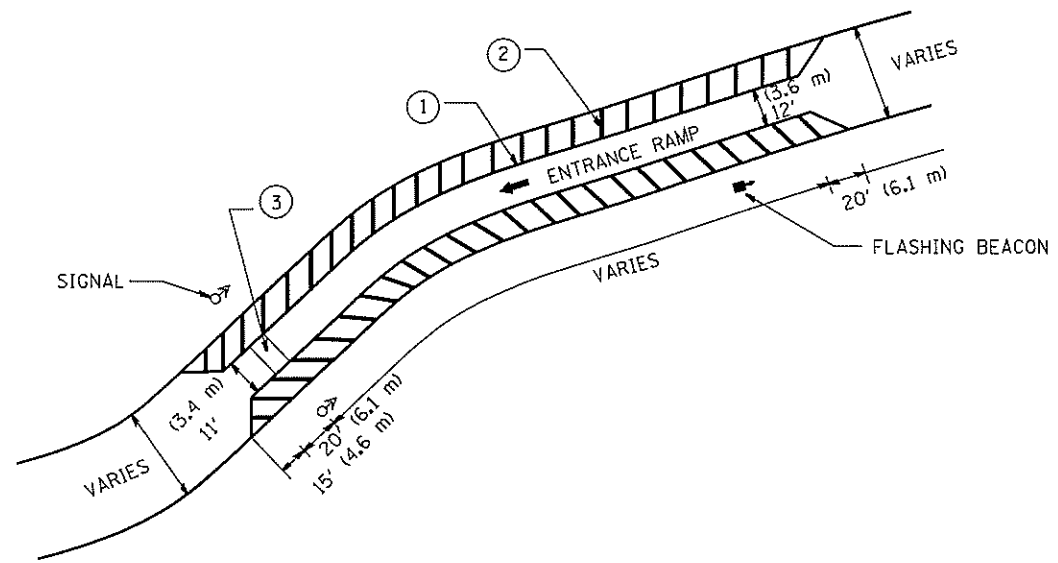
WIRING DIAGRAM

- NOTES:**
- 1.- REMOVE AND RELOCATE FLASHER AS SHOWN ON PLANS.
  - 2.- ABANDON LOOP 1 & INSTALL NEW LOOP 1 AS SHOWN, INTERCEPT EXISTING HANDHOLE & INSTALL NEW CONDUIT TO CABINET, SPLICE LOOP & LEAD IN IN HANDHOLE.
  - 3.- INTERCEPT HANDHOLE FOR FLASHER & RUN NEW CONDUIT 1/4 IN. TO CABINET.
  - 4.- PULL BACK TELEPHONE & POWER CABLES INTO HANDHOLE TO BE REINSTALLED IN NEW 2IN. AND EXISTING 2IN. P-DUCT TO CONTROL CABINET.
  - 5.- ABANDON EXISTING LOOP 1 DUCT RUN.

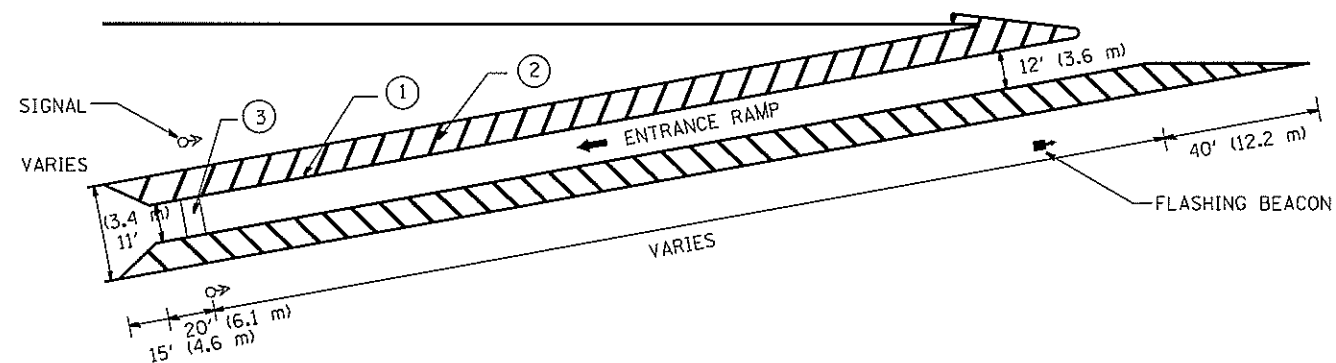
**FOR INFORMATION ONLY**

REVISIONS	
NAME	DATE
SURVEILLANCE	5-03-94
SURVEILLANCE	7-12-94
R.L.	10-3-95

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
 KENNEDY  
**WILSON AVENUE  
 EDENS-KENNEDY JUNCTION**  
 SCALE: VERT. 50:1  
 HORIZ. 50:1  
 DATE 5-02-94  
 DRAWN BY G.M.  
 CHECKED BY T.C.



FRONTAGE ROAD



PAVIMENT MARKING

- ① 12" (305 mm) WHITE CHANNEL MARKINGS
- ② 8" (203 mm) WHITE CROSS-HATCHING AT 10' (3.05 m) INTERVALS
- ③ 24" (609 mm) WHITE STOP BAR CENTERED BETWEEN SIGNALS

FOR INFORMATION ONLY

CONTRACT 60V58

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED -
c:\pwork\pwork\mezag\02287541\TSC177	agn	DRAWN - G.M.	REVISED -
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	PLOT DATE = 3/11/2013	DATE - 06/22/94	REVISED -

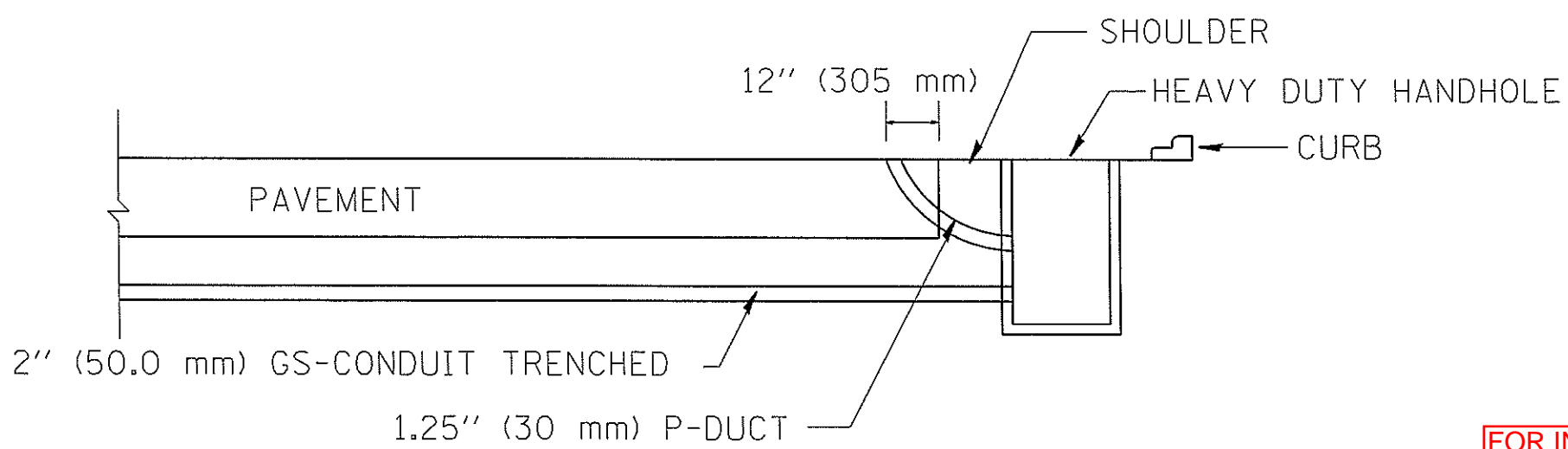
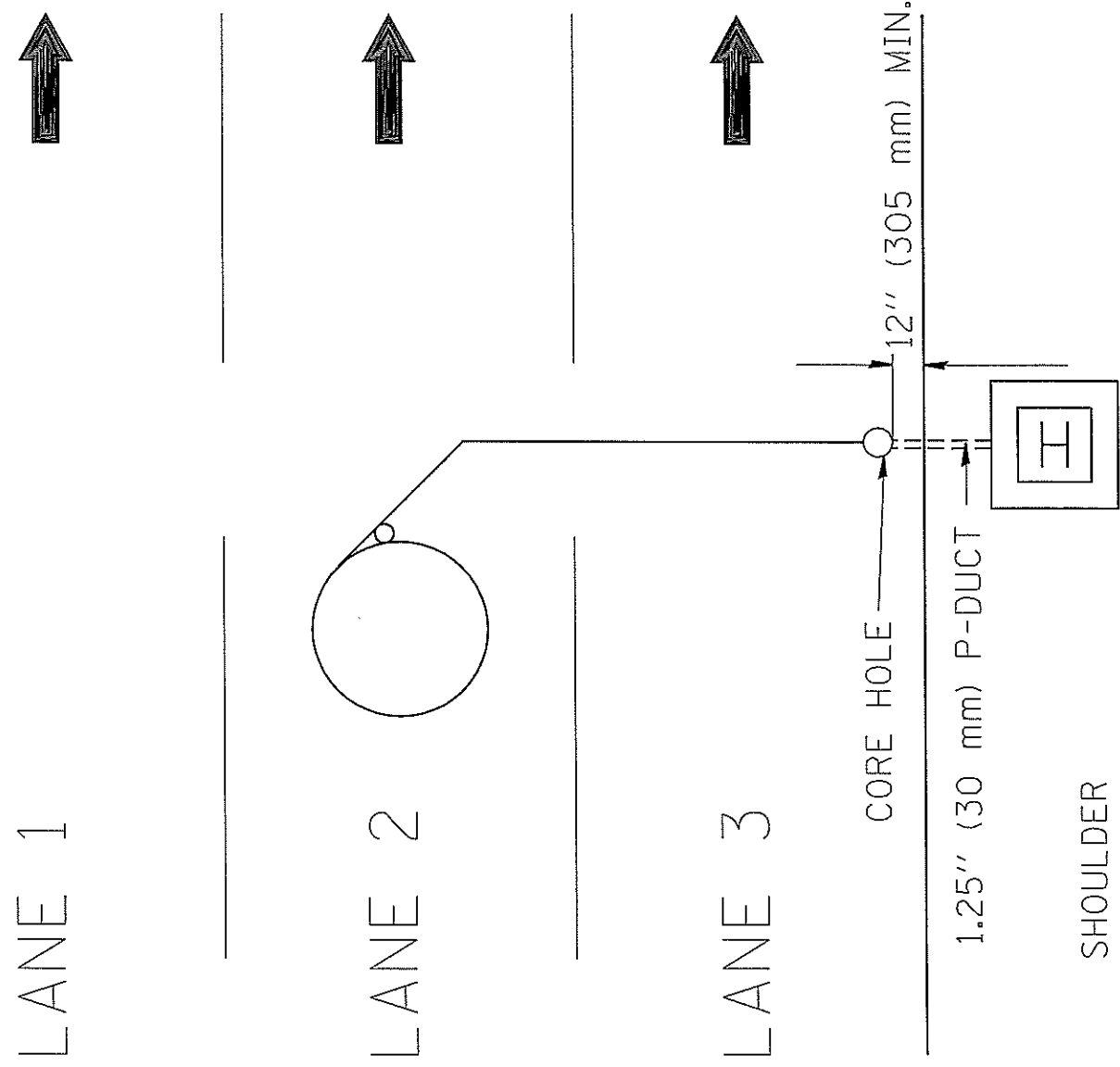
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

TYPICAL RAMP  
METERING STRIPING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-055BR		107	99BB
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO.				

TRAFFIC SYSTEMS CENTER (TY-1TSC-500#1)



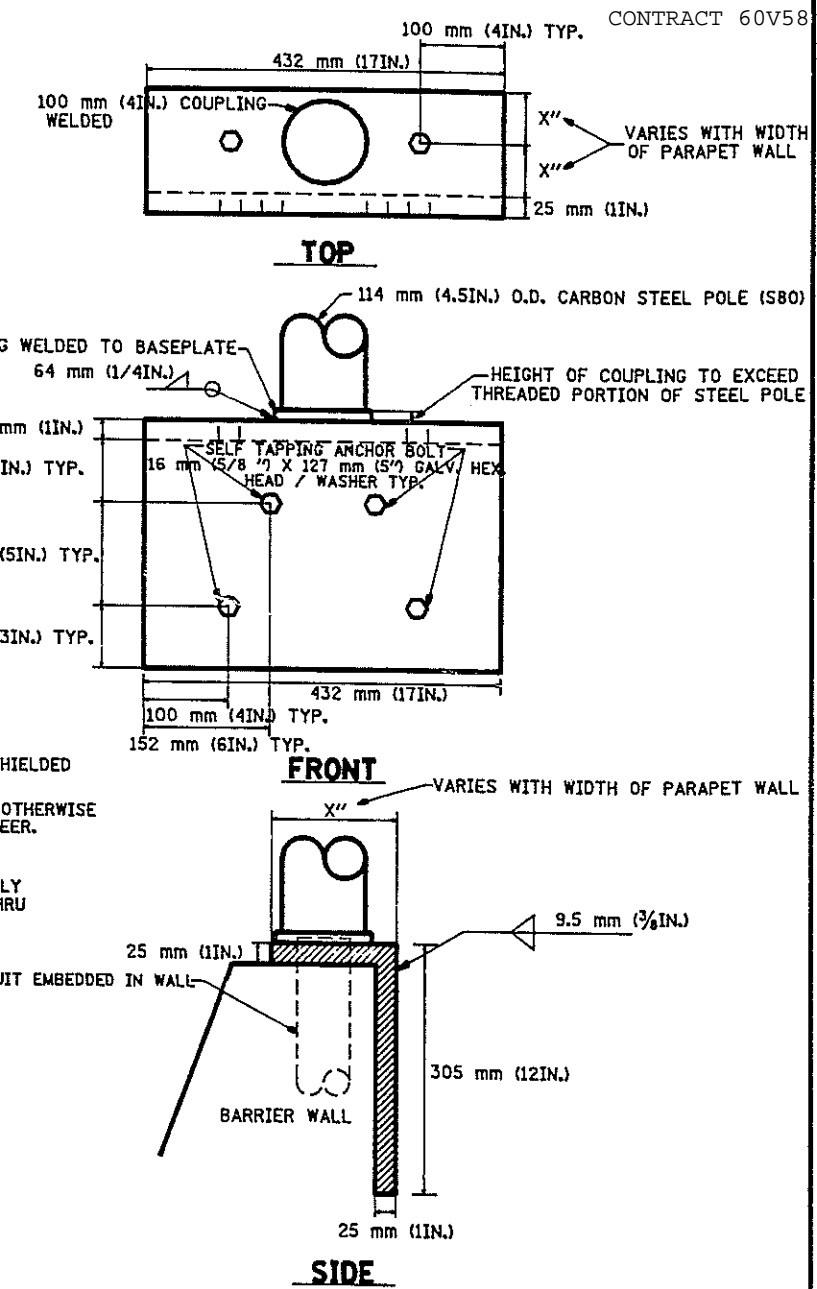
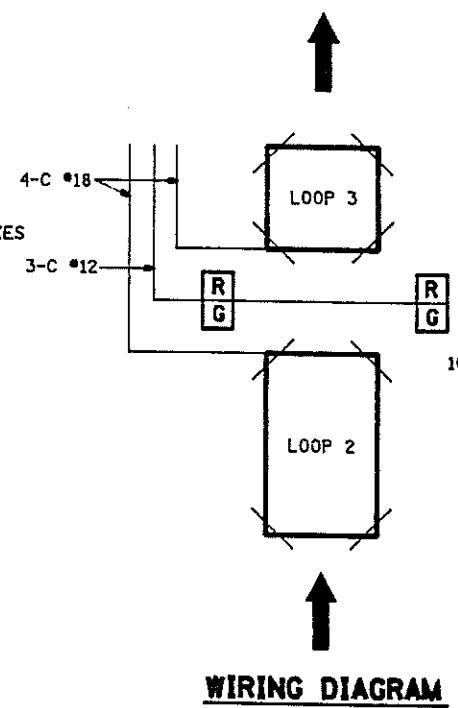
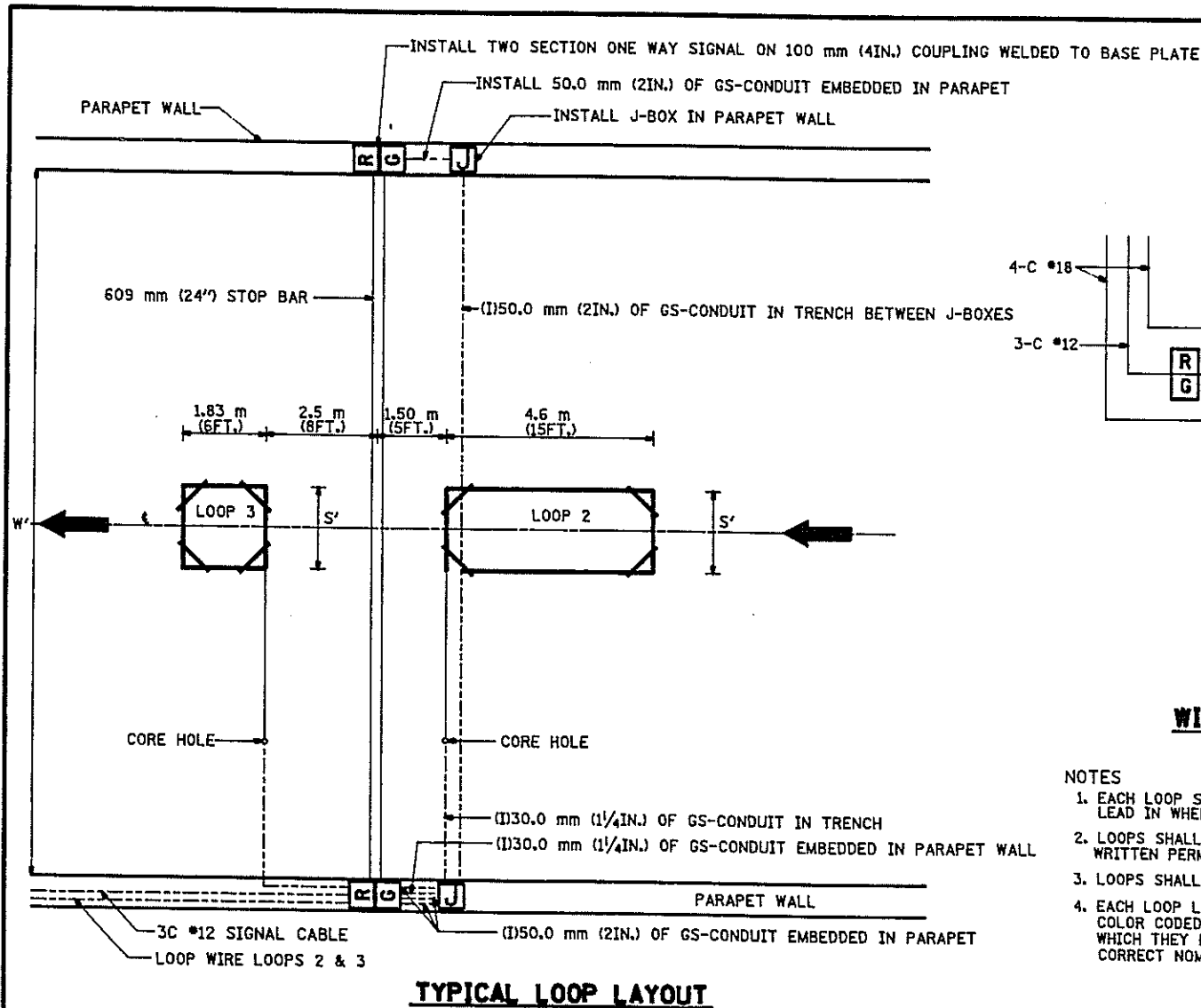
FOR INFORMATION ONLY

CONTRACT 60V58

FILE NAME * C:\Projects\TSC\TYPICALS\TSC\TYP88.dgn	USER NAME * mazeg	DESIGNED - R.L.	REVISED - R.L.	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> TRAFFIC SYSTEMS CENTER	<b>DIVE HOLE DUCT SYSTEM</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / IN.	DRAWN - G.M.	REVISED - T.C.				2012-055BR		107	99CC	
	PLOT DATE = 12/2/2010	CHECKED - R.L.	REVISED -				CONTRACT NO.				
	DATE - 11/7/95	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



P.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
012-055R			107	99D
STA.	TO STA.		ILLINOIS FED. AID PROJECT	
			CONTRACT 60V58	



- 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 OR J-BOX 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.

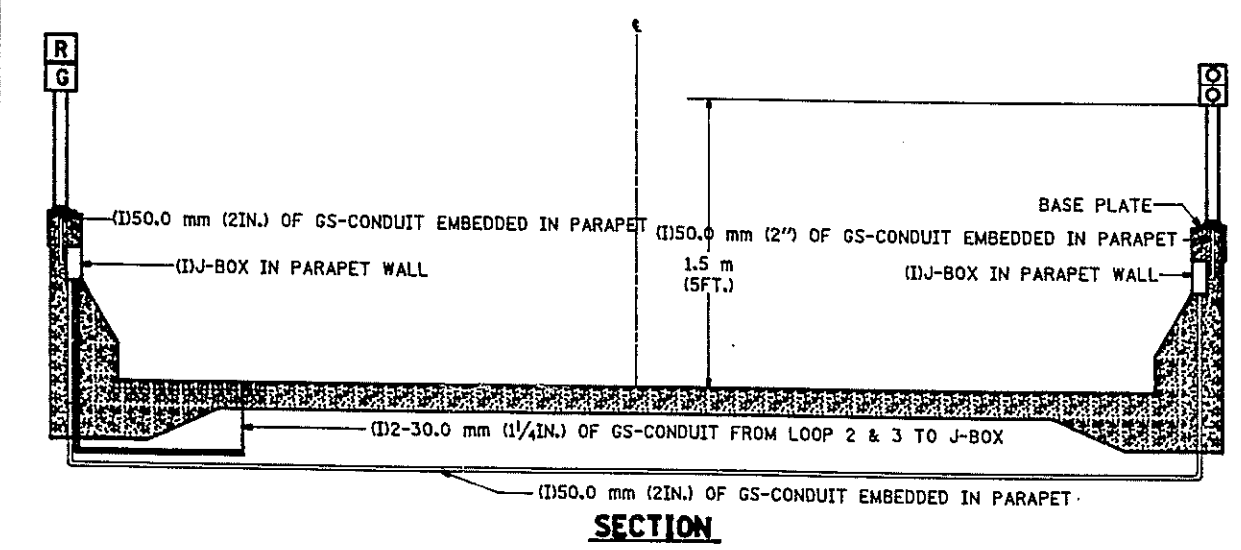


TABLE 1

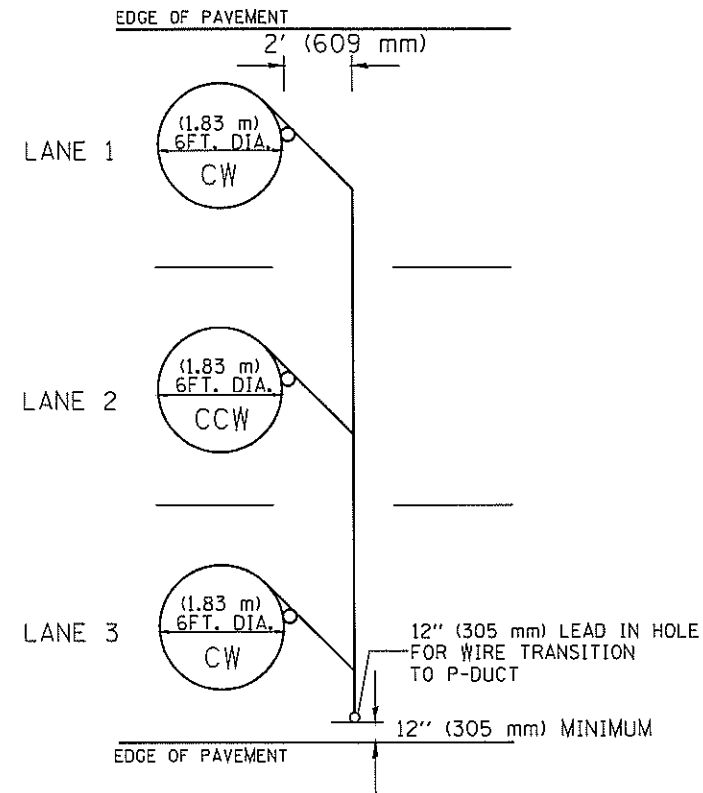
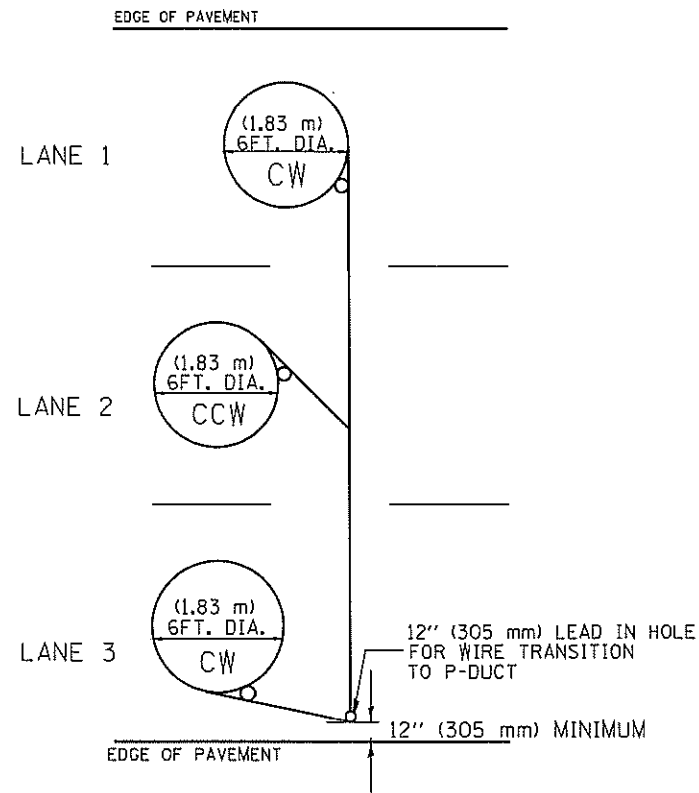
WIDTH (W)	WIDTH (S)
3.7 m (12')	2.5 m (8')
4.0 m (13')	2.8 m (9')
4.3 m (14')	3.1 m (10')
4.6 m (15')	3.4 m (11')
4.9 m (16')	3.7 m (12')
5.2 m (17')	4.0 m (13')
5.5 m (18')	4.3 m (14')
5.8 m (19')	4.6 m (15')
6.1 m (20')	4.9 m (16')
6.4 m (21')	5.2 m (17')
6.7 m (22')	5.5 m (18')
7.0 m (23')	5.8 m (19')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

FOR INFORMATION ONLY

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER TYPICAL RAMP METERING TYPE 3 BARRIER WALL INSTALLATION
DATE	BY	
5/94	R.L.	SCALE: NONE DATE: 6-22-94 DRAWN BY: C.M. CHECKED BY: R.L.
2/96	R.L.	
3/96	T.C.	
2/98	R.L.	

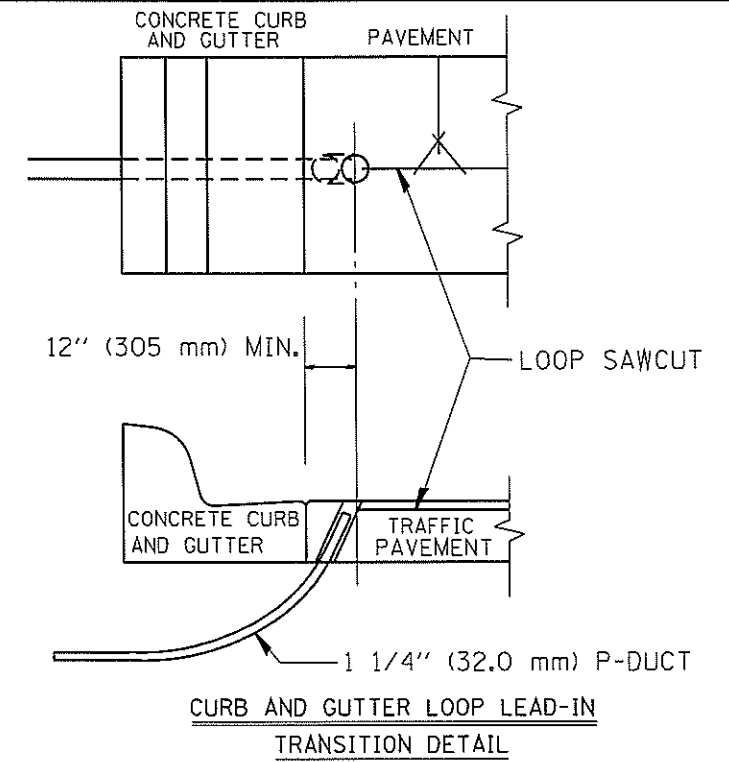
TRAFFIC SYSTEMS CENTER (TY-1TSC-400#3)



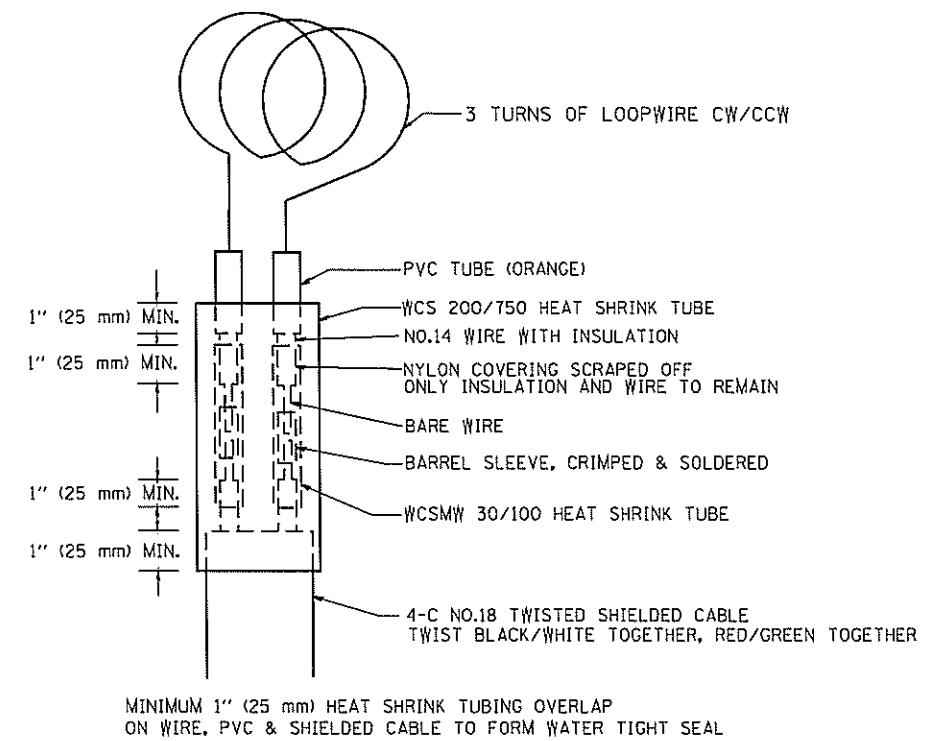


TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL  
LAYOUT FOR MULTIPLE LANE ROADWAY

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



CURB AND GUTTER LOOP LEAD-IN  
TRANSITION DETAIL



LOOP SPLICING REQUIREMENTS

FOR INFORMATION ONLY

NOTES

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

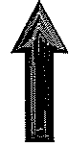
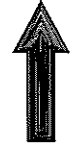
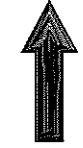
CONTRACT 60V58

FILE NAME * C:\Projects\TSC\TYPICALS\TSC11P88.dgn	USER NAME * mazog	DESIGNED - R.L.	REVISED - 6/94	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> TRAFFIC SYSTEMS CENTER	<b>EXISTING</b> <b>ROUND INDUCTION LOOP</b> <b>TYPICALS</b>	F.A. RTE.	SECTION 2012-055BR	COUNTY	TOTAL SHEETS 107	SHEET NO. 99FB	
PLOT SCALE = 100.0000 ' / IN.	CHECKED - R.L.	REVISED - 10/96	SCALE: NONE			SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 12/2/2010	DATE - 6-22-94	REVISED -								CONTRACT NO.	

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#2)







LANE 1

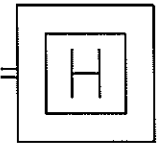
LANE 2

LANE 3

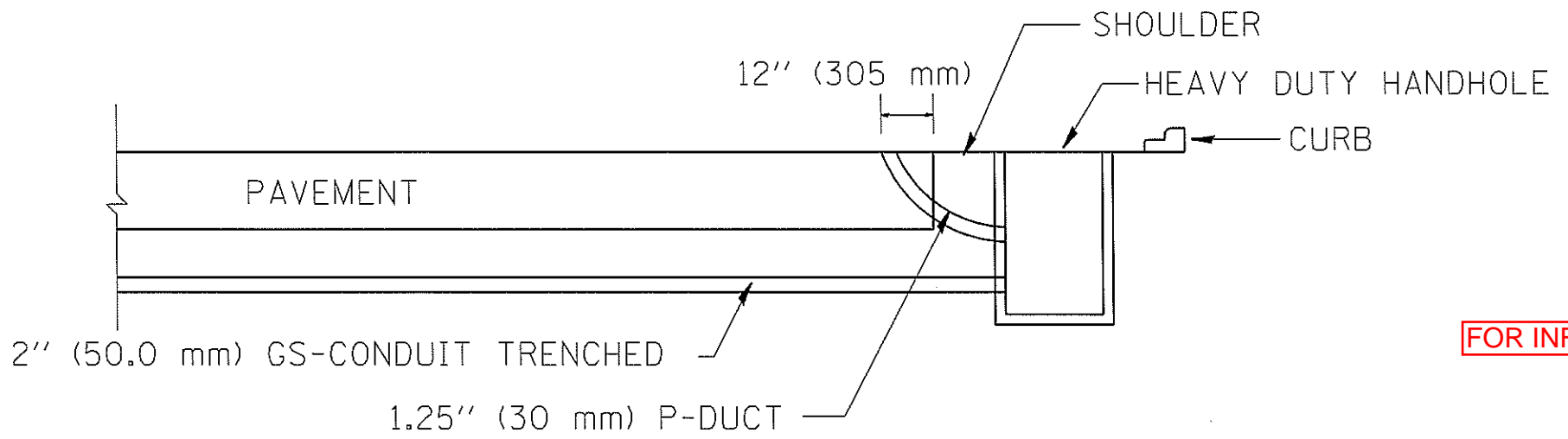
12" (305 mm) MIN.

CORE HOLE

1.25" (30 mm) P-DUCT



SHOULDER



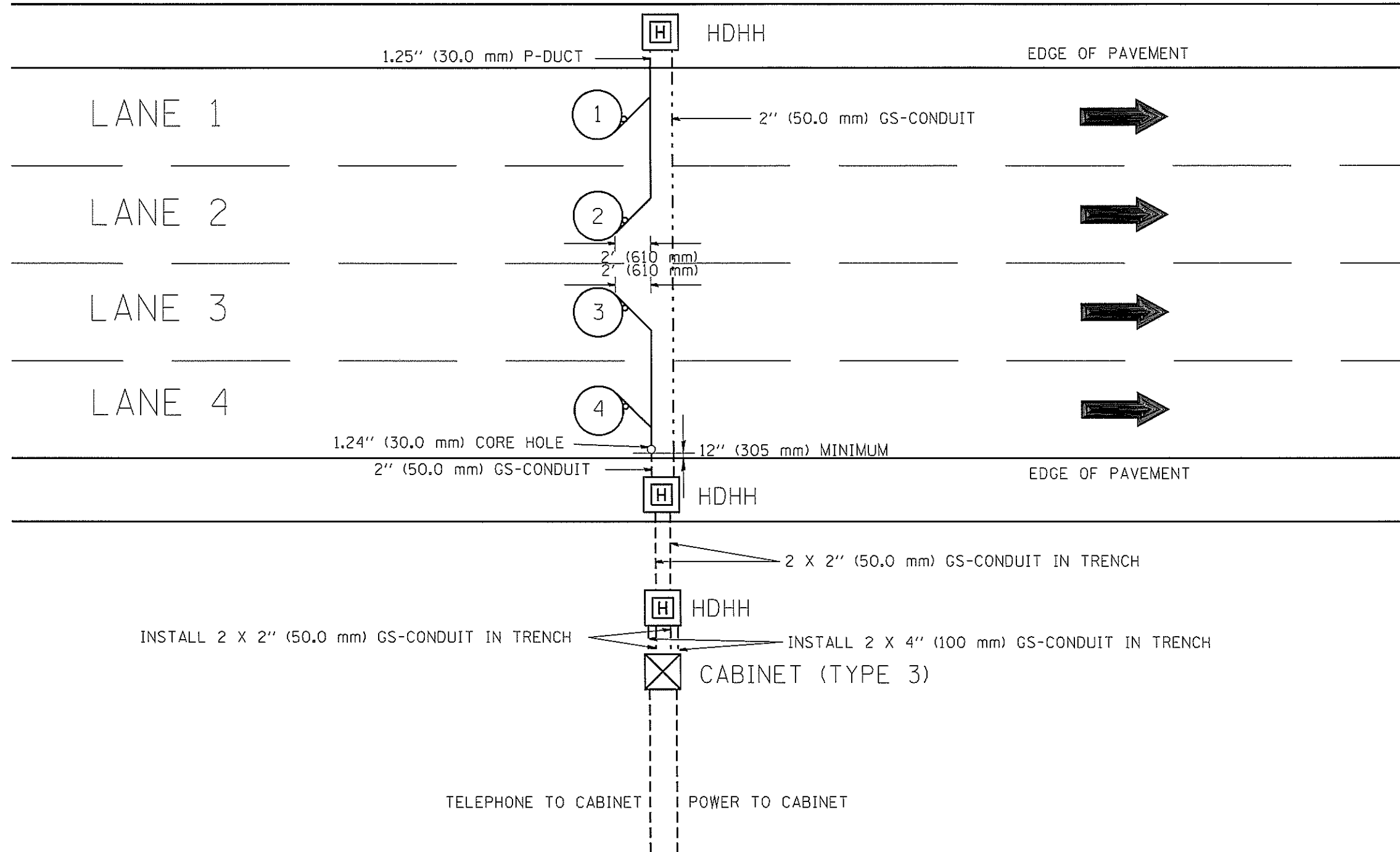
FOR INFORMATION ONLY

CONTRACT 60V58

FILE NAME * C:\Projects\TSC\TYPICALS\TSC1YP08.dgn	USER NAME * mezag	DESIGNED - R.L.	REVISED - R.L.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	DIVE HOLE DUCT SYSTEM			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / IN.	DRAWN - G.M.	REVISED - T.C.		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 12/2/2010	CHECKED - R.L.	REVISED -									
	DATE - 11/7/95	DATE -	REVISED -									

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#8)

NOTE: ALL MAIN LINE LOOPS ARE ROUND 6' DIA. (1.83 m)



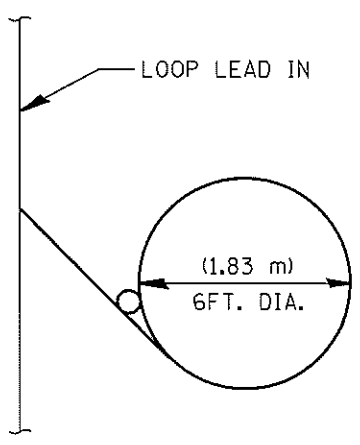
NOTES

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

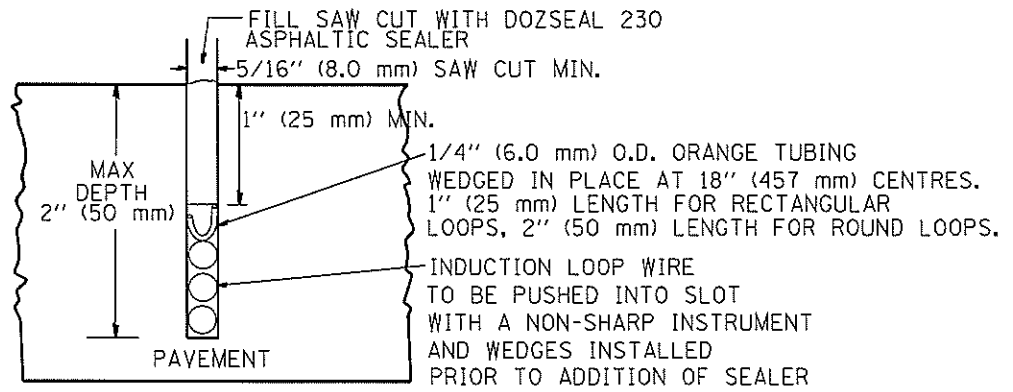
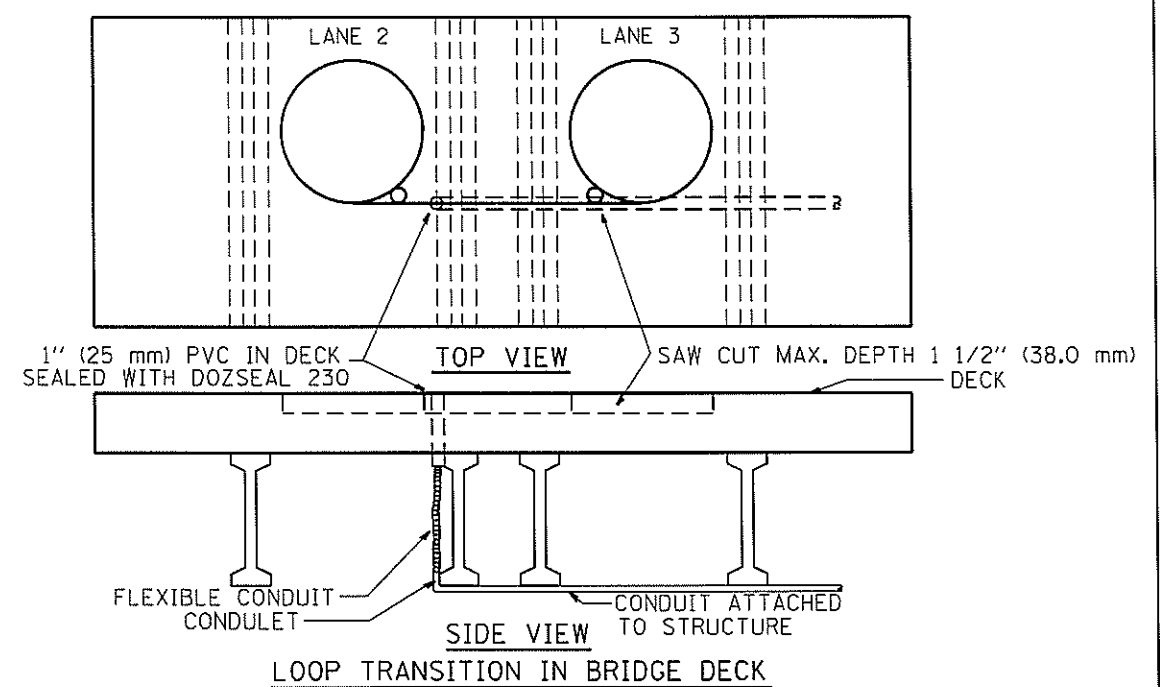
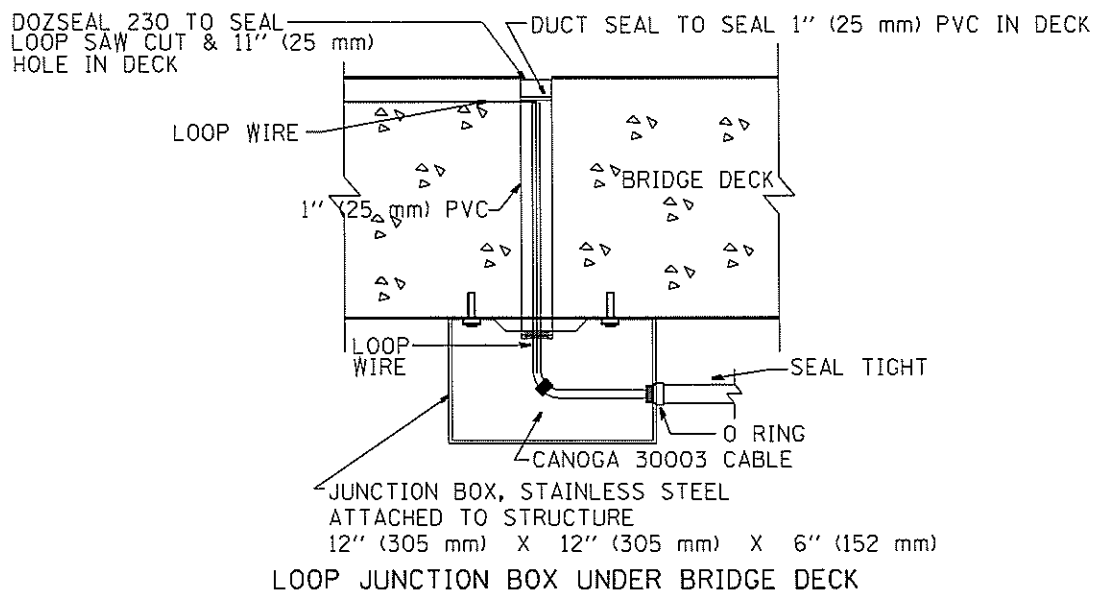
FOR INFORMATION ONLY

FILE NAME * C:\Projects\TSC\TYPICALS\TSC1YPB8.dgn	USER NAME * mazeg	DESIGNED - R.L. DRAWN - G.M.	REVISED - R.L. REVISED - R.L.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER</b>	<b>NEW CONSTRUCTION ROUND INDUCTION LOOP TYPICAL INSTALLATION</b>	F.A. RTE. 2012-055BR	SECTION COUNTY	TOTAL SHEETS 107	SHEET NO. 991
PLOT SCALE = 100.0000' / INL		CHECKED - R.L.	REVISED - T.C.	SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO.	
PLOT DATE = 3/3/2011		DATE - 6-27-94	REVISED - T.C.	CONTRACT 60V58					

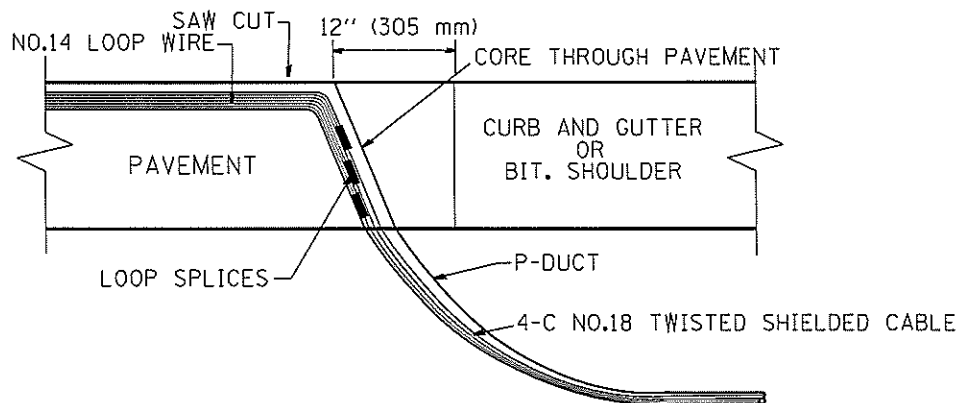
TRAFFIC SYSTEMS CENTER (TY-1TSC-418#6)



TYPICAL LOOP SAWCUT LAYOUT

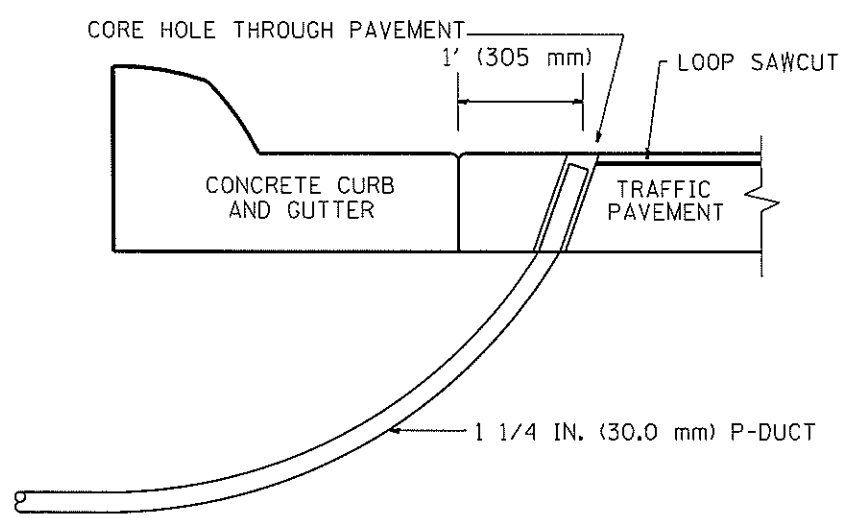


LOOP CROSS SECTION IN PAVEMENT

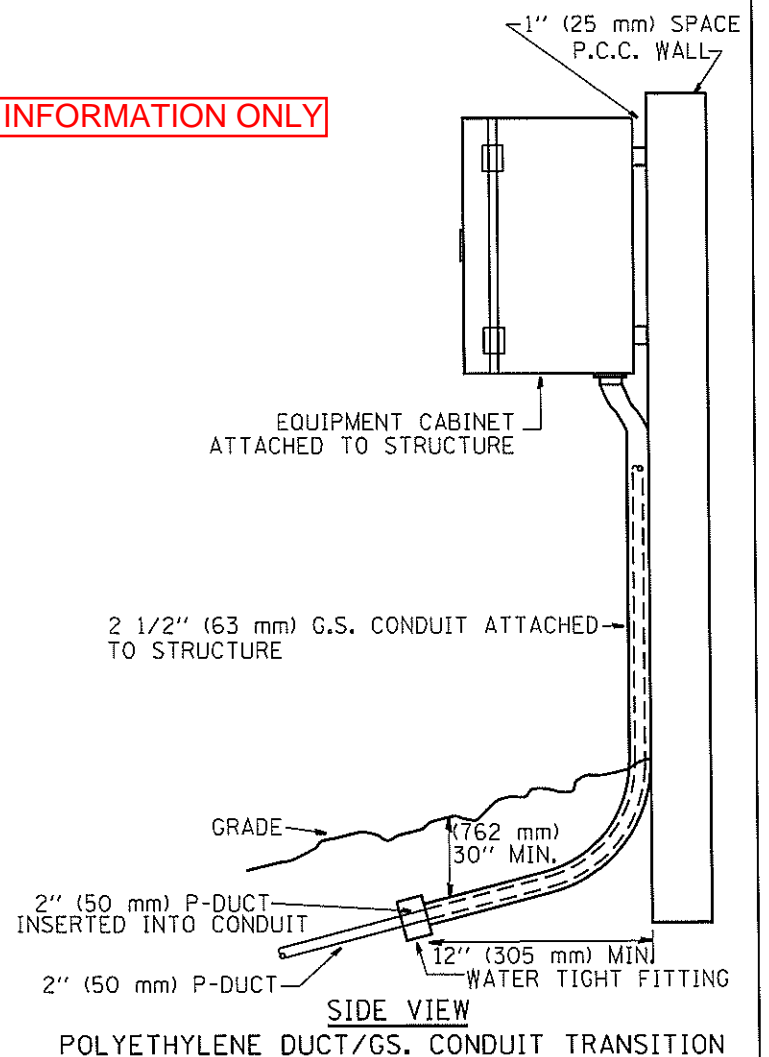
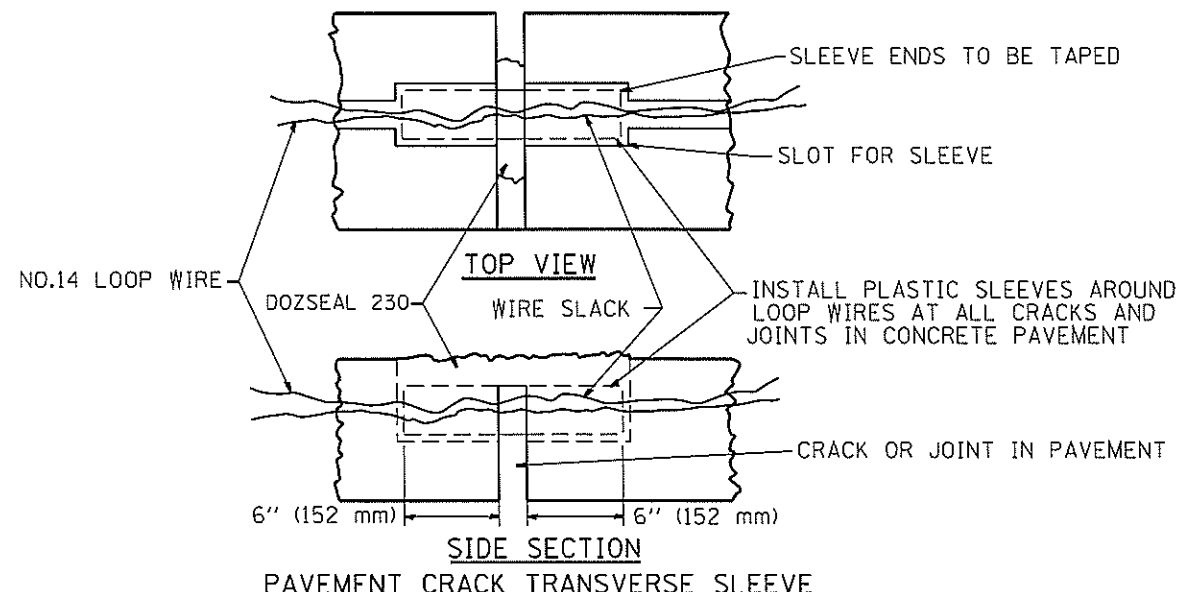


MULTIPLE LOOP SPLICING

FOR INFORMATION ONLY



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL



FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94
c:\p\work\p\p\mezag\08287541\TSC11F.dgn		DRAWN - G.M.	REVISED - 03/95
PLOT SCALE = 100.0000 / 1 in.		CHECKED - R.L.	REVISED - 11/95
PLOT DATE = 7/26/2012		DATE - 06/22/94	REVISED - 10/96

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

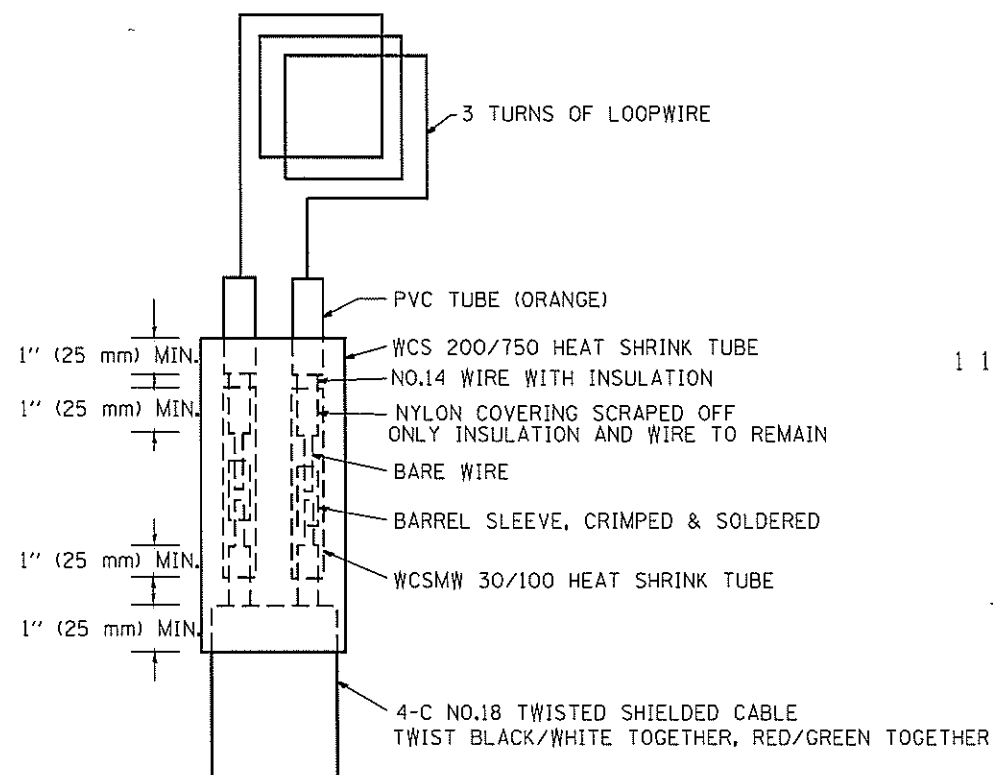
LOOP, CONDUIT & DUCT  
INSTALLATION DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
	2012-055BR		107	99JJ
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#4)

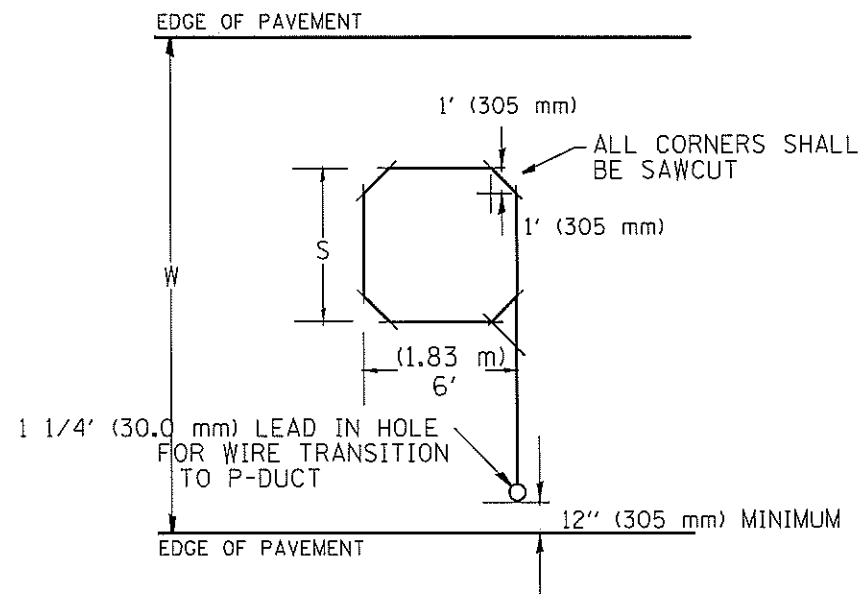
CONTRACT 60V58



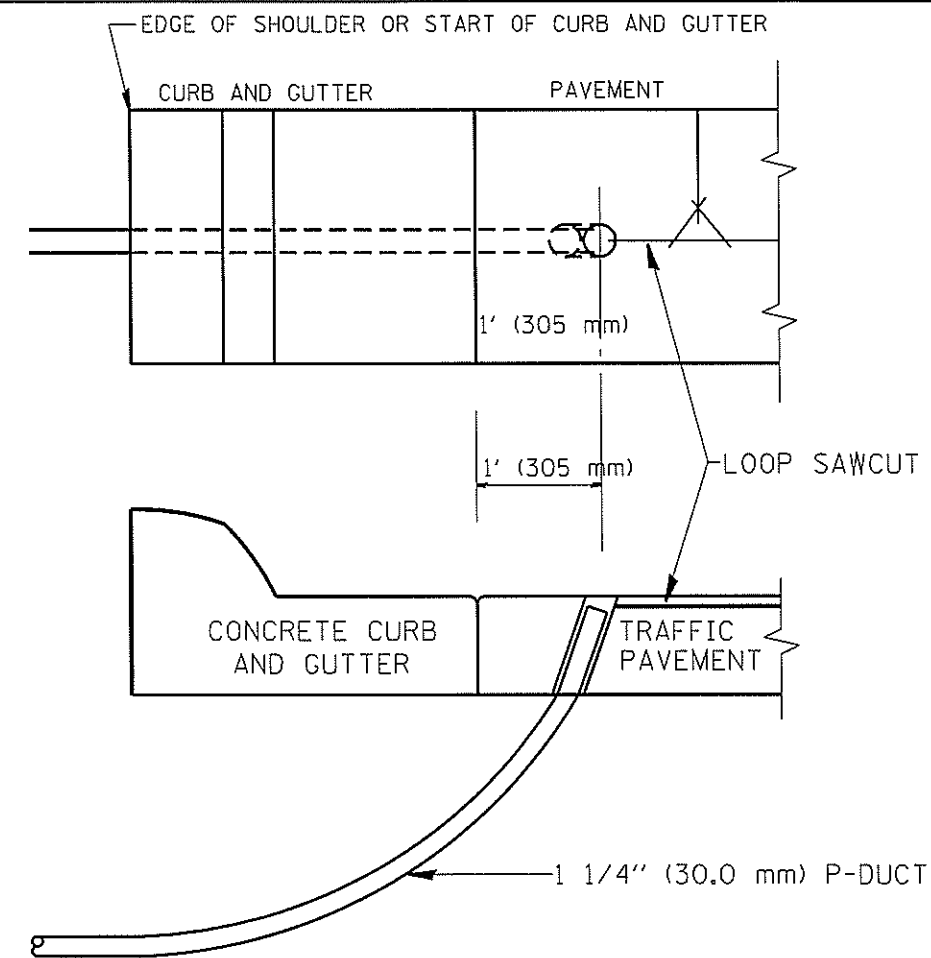
MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

**LOOP SPLICING REQUIREMENTS**

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



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



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

**NOTES**

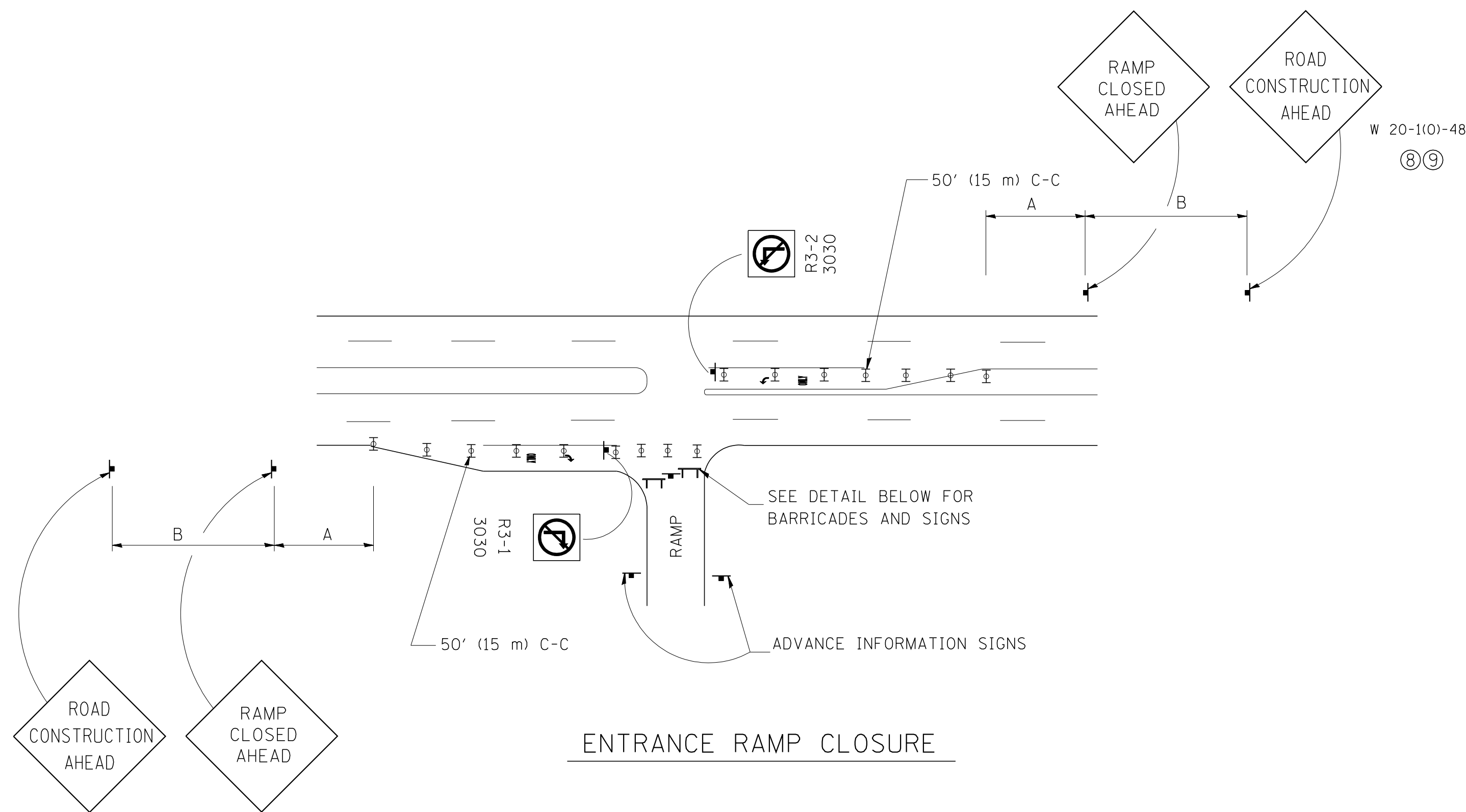
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED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

**FOR INFORMATION ONLY**

CONTRACT 60V58

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER</b>	<b>RECTANGULAR INDUCTION LOOP TYPICAL</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\ppr\work\p\idos\mezag\d0287541\TSC17	dgn	DRAWN - G.M.	REVISED - 11/95			2012-055BR	107	99K		
PLOT SCALE = 100.0000 / in.	CHECKED - R.L.	REVISED - 05/96	CONTRACT NO.							
PLOT DATE = 7/26/2012	DATE - 6-22-94	REVISED - 10/96	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#3)



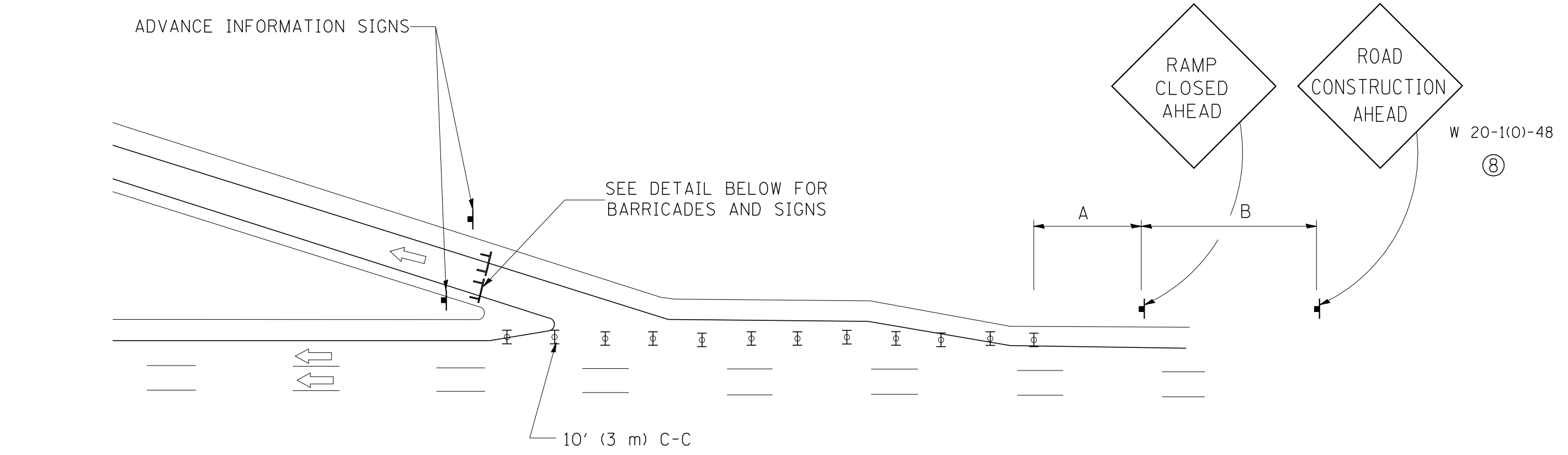
ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

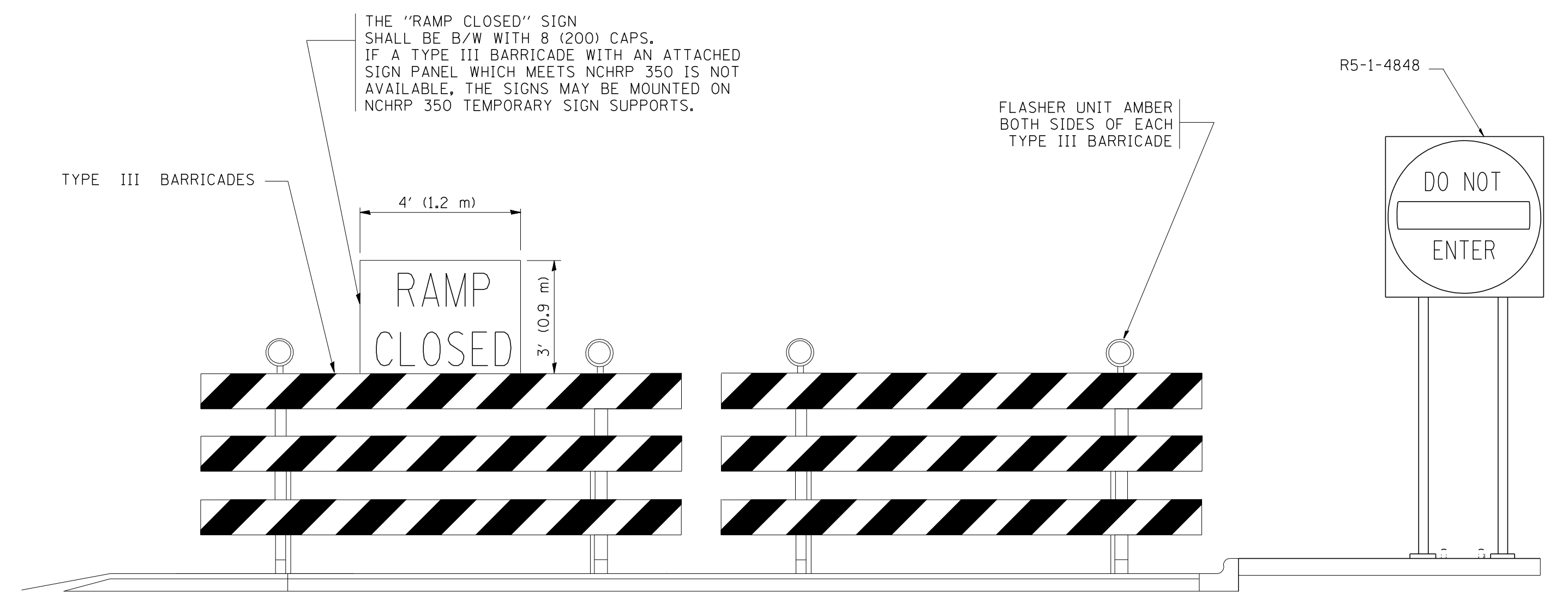
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-110-48  
⑧⑨

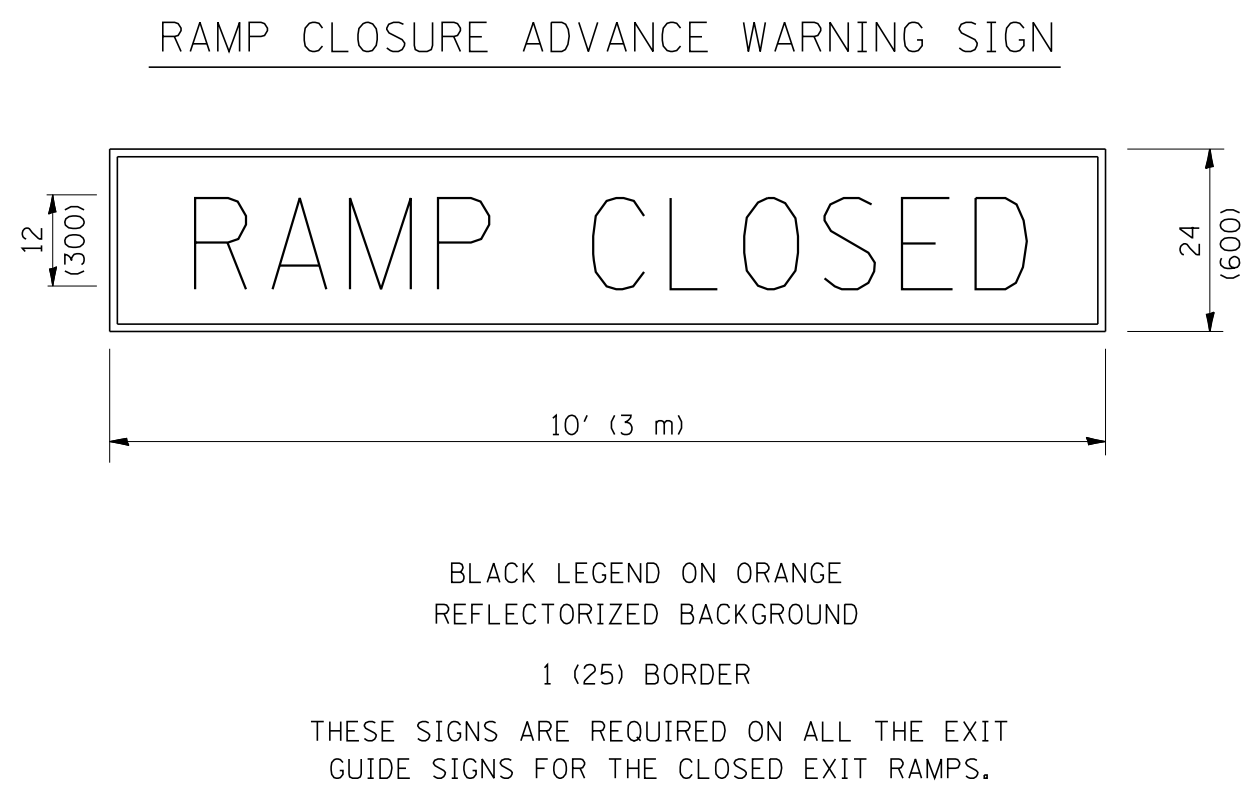


EXIT RAMP CLOSURE

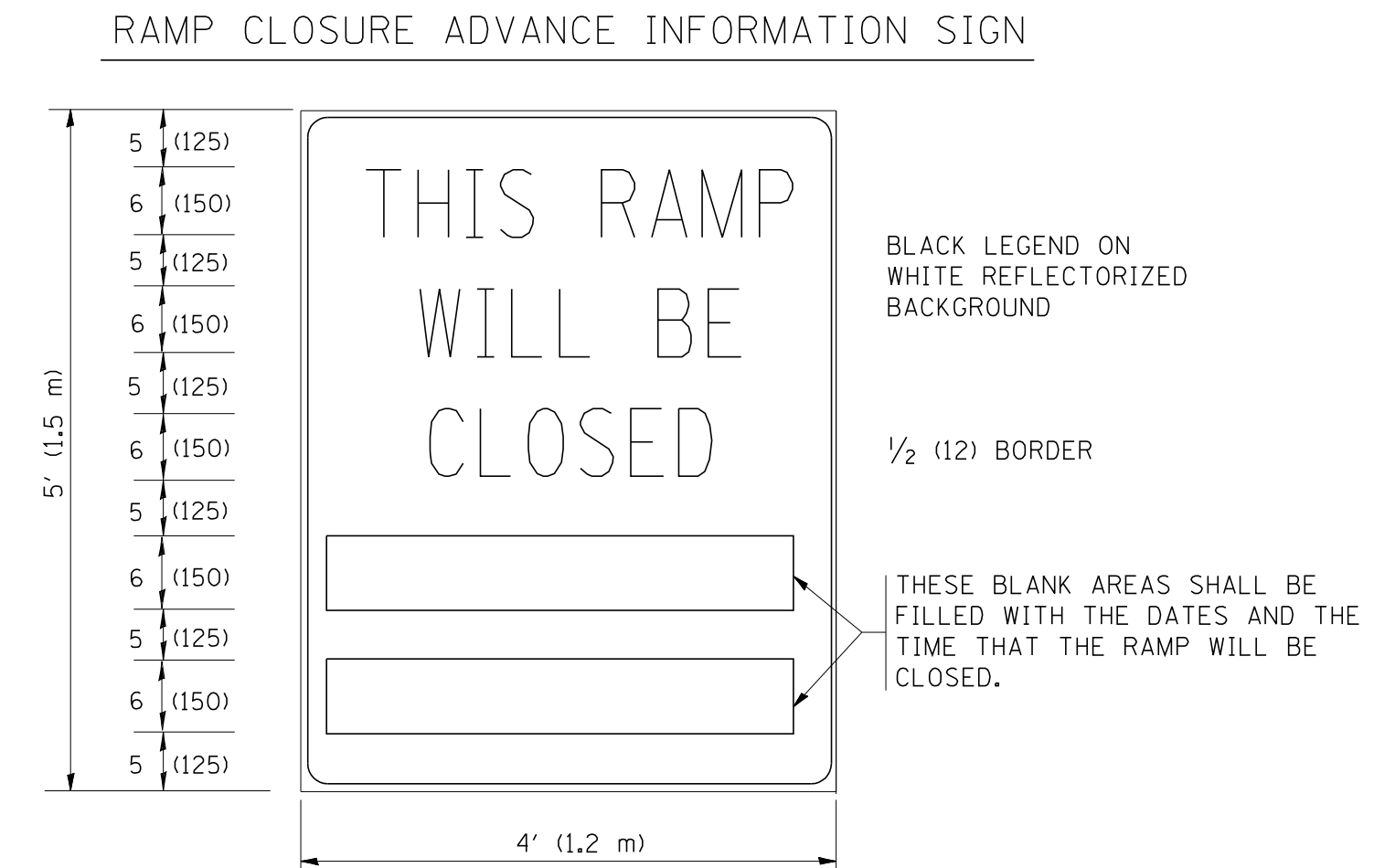
- SYMBOLS**
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ⊏ TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS



RAMP CLOSURE ADVANCE WARNING SIGN



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.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

FILE NAME = W:\dststd\22x34\to08.dgn	USER NAME = lqyso	DESIGNED - DWS	REVISED - DWS/JAF 12-02
		DRAWN -	REVISED - JAF 02-06
		CHECKED -	REVISED - SPB 01-07
		DATE - 02-83	REVISED - SPB 12-09

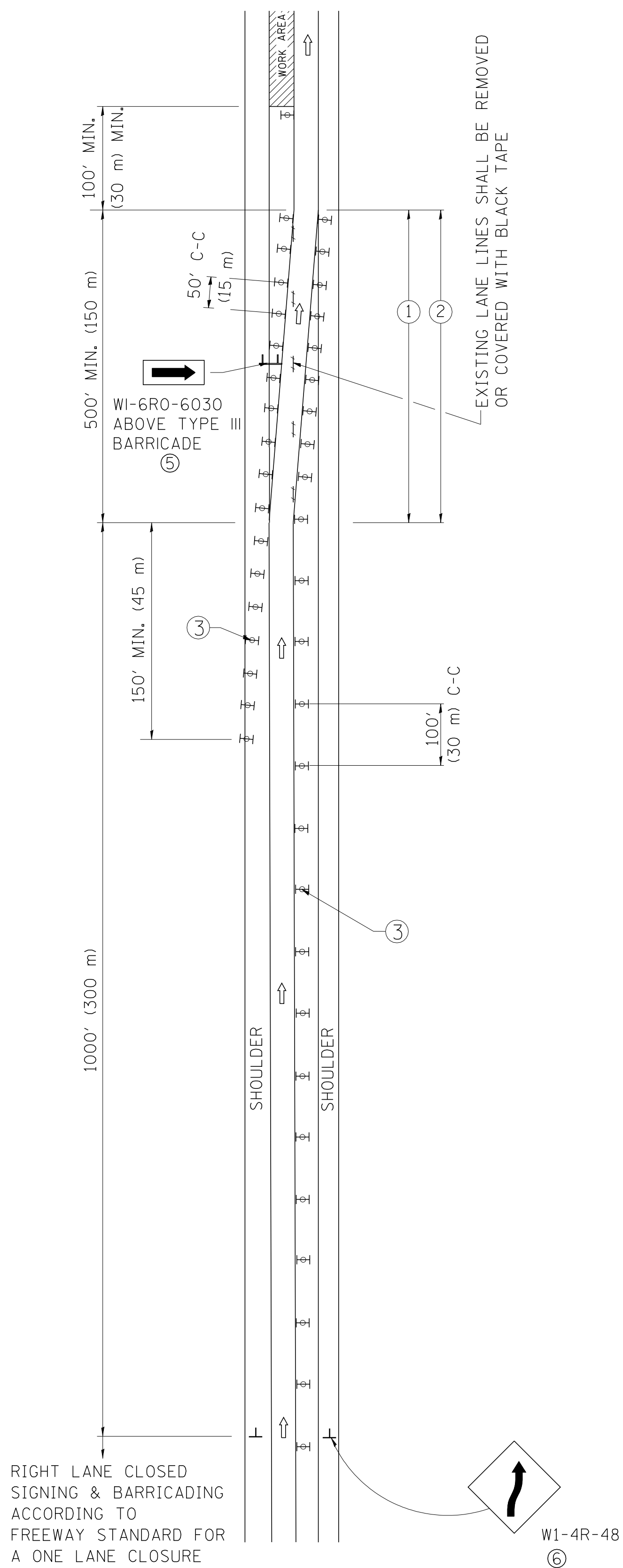
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS

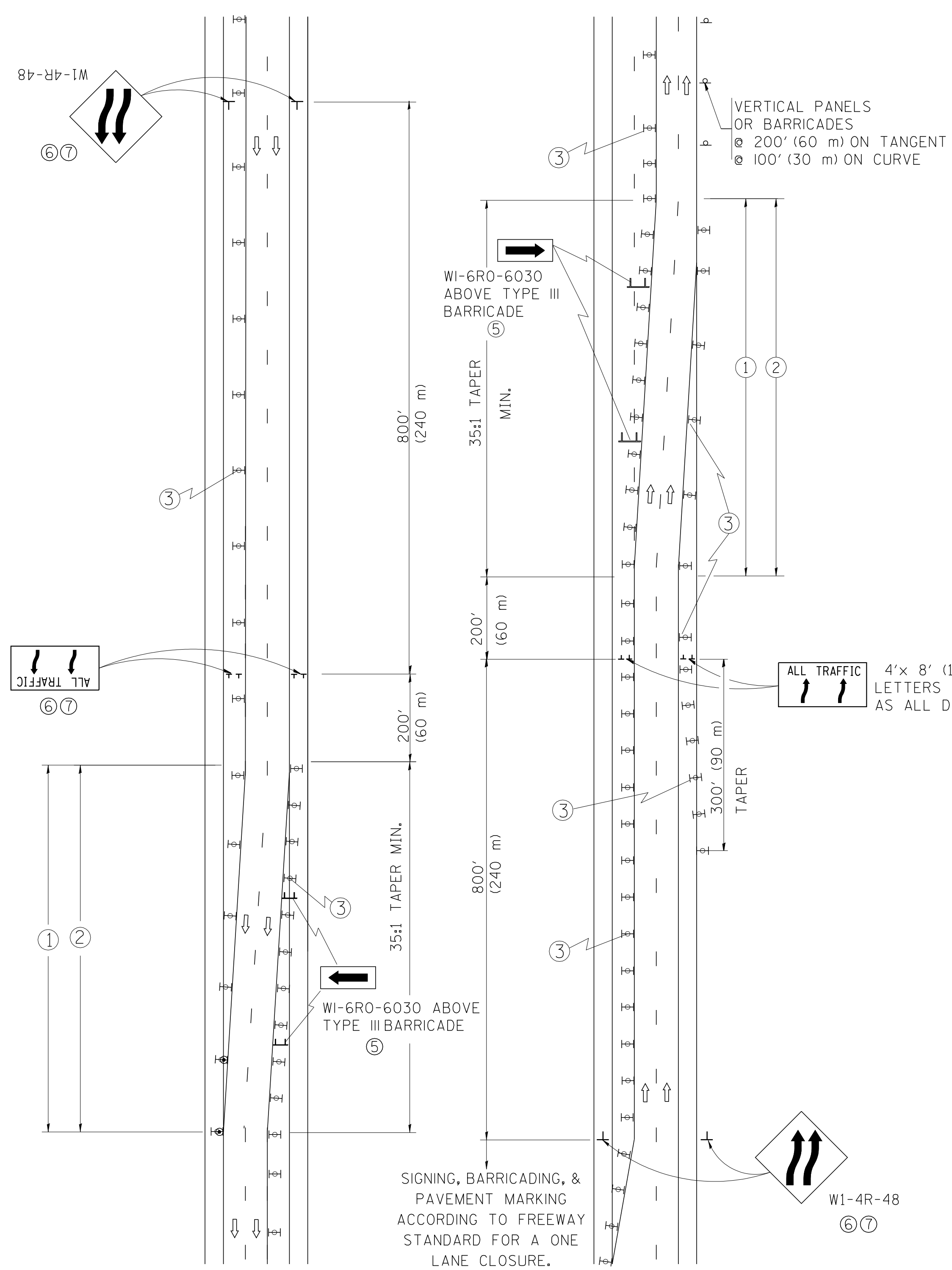
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 100
TC-08		CONTRACT NO. 60V58		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

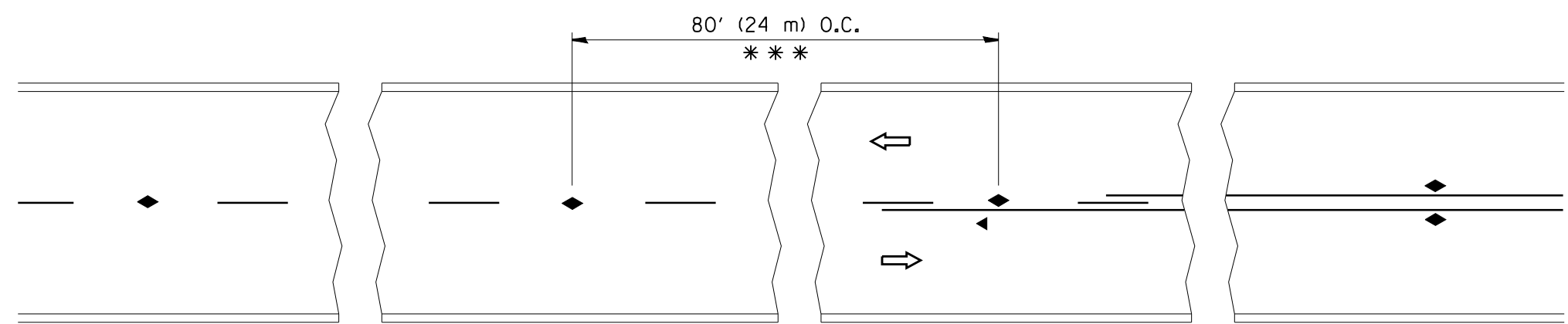
### SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- W1-4R-48 (6, 7)
- W24-1-48 (7)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

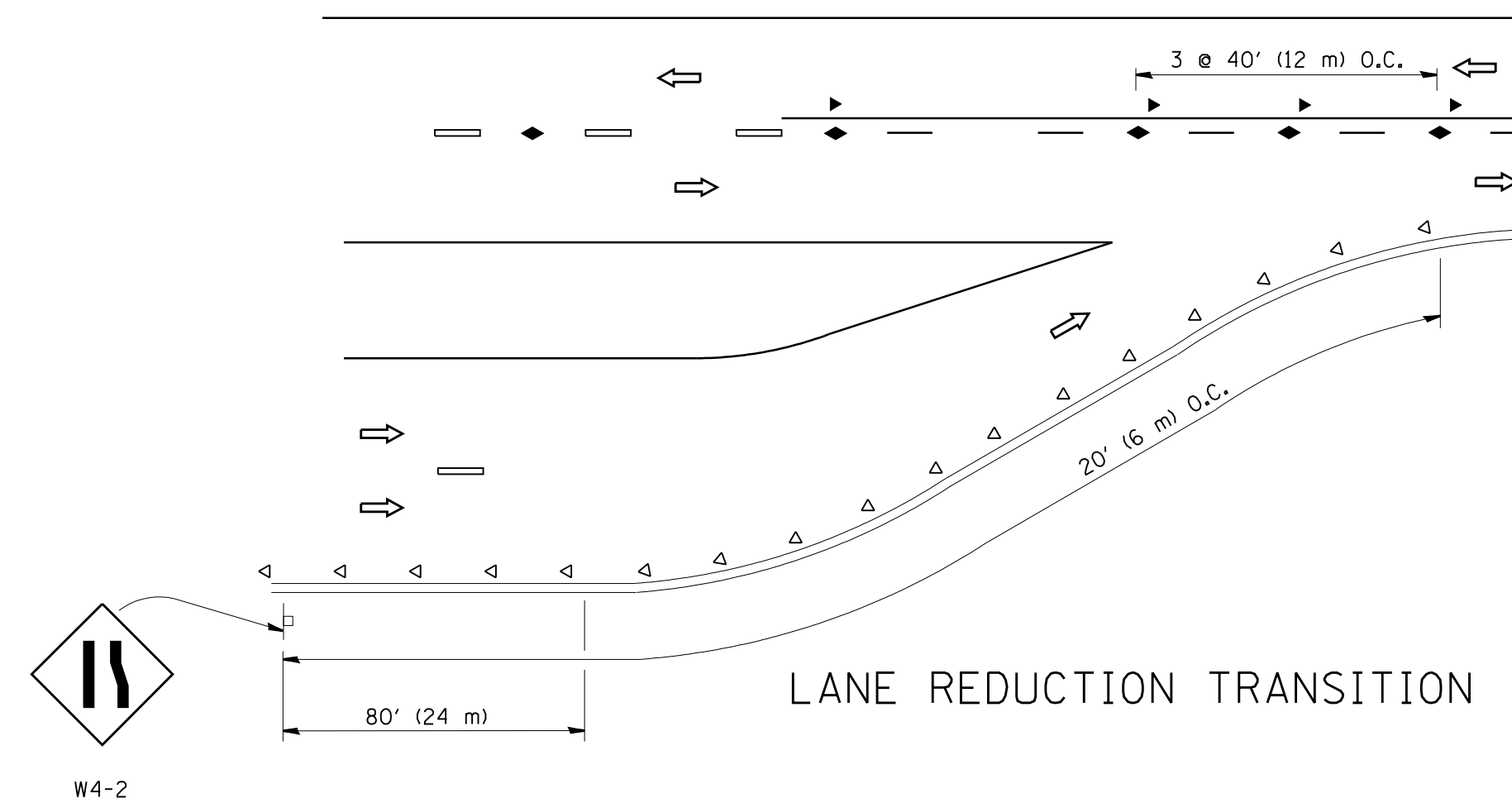
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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - JAF 02-06		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<b>TC-09</b>		CONTRACT NO. 60V58		
	PLOT DATE = 1/26/2010	CHECKED -	REVISED - SPB 01-07					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE = 02-87	REVISED - SPB 12-09									



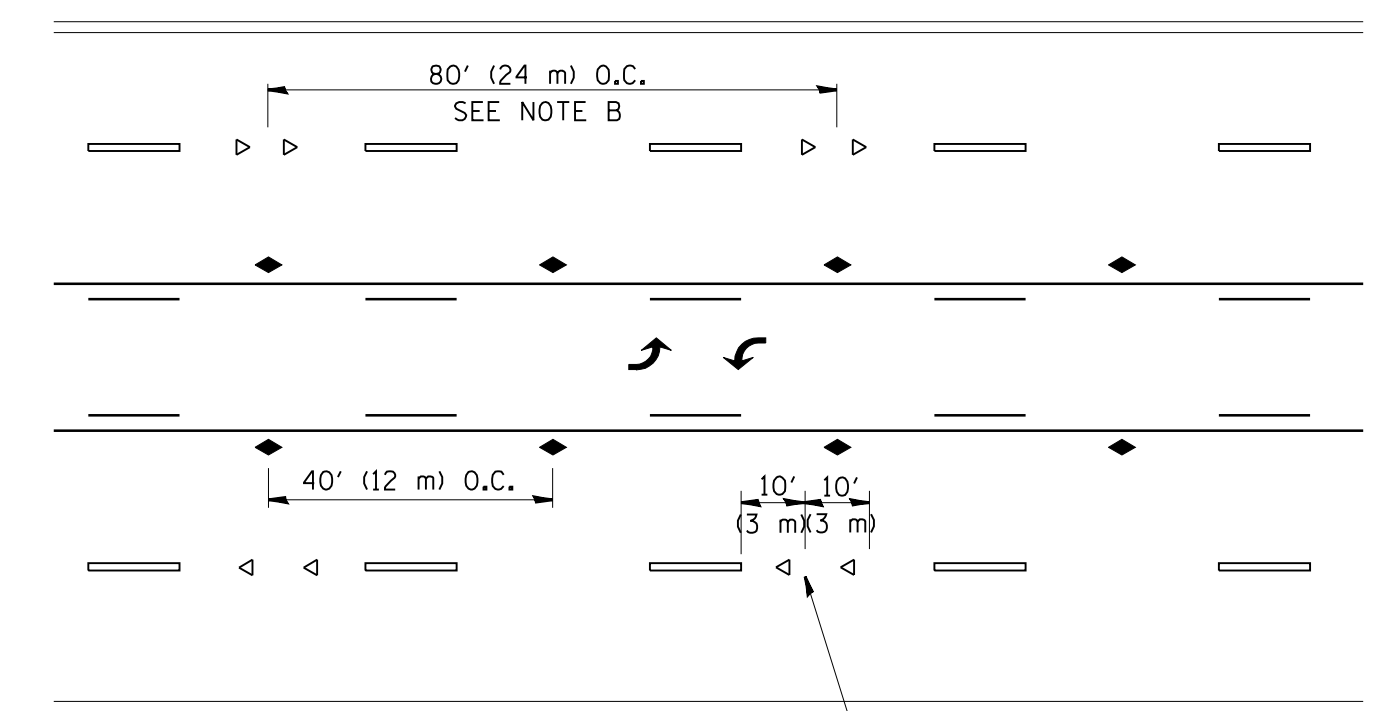


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

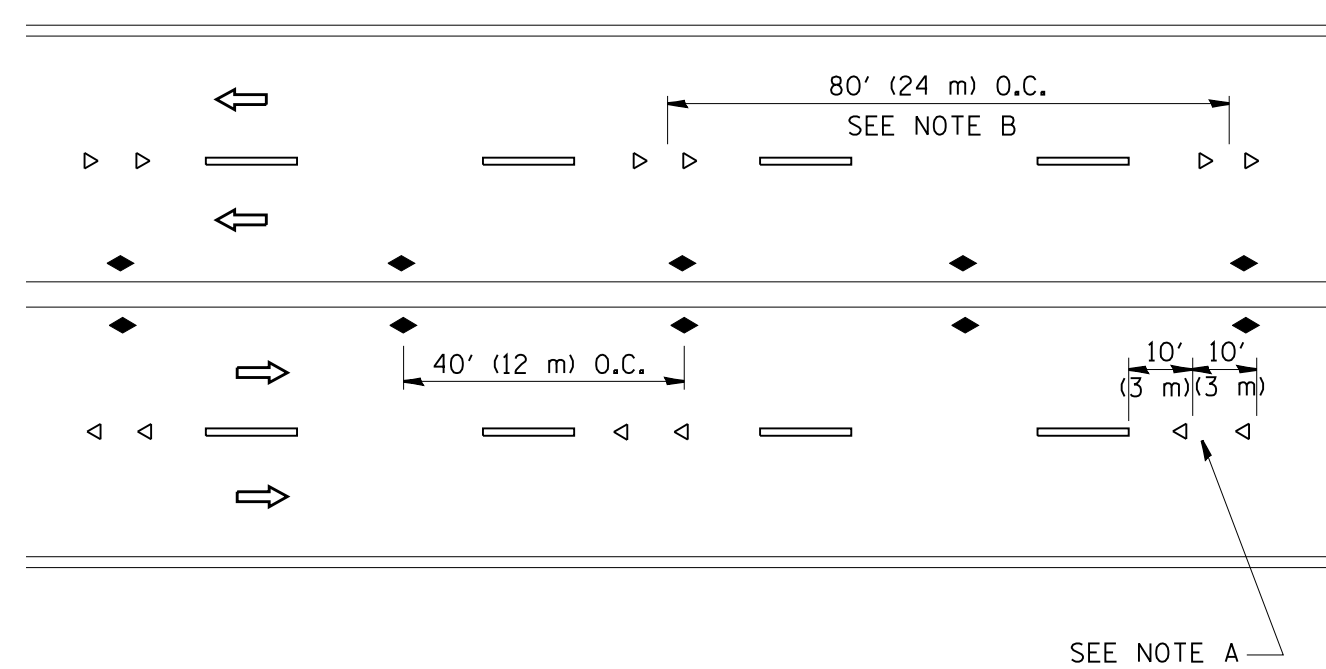
TWO-LANE/TWO-WAY



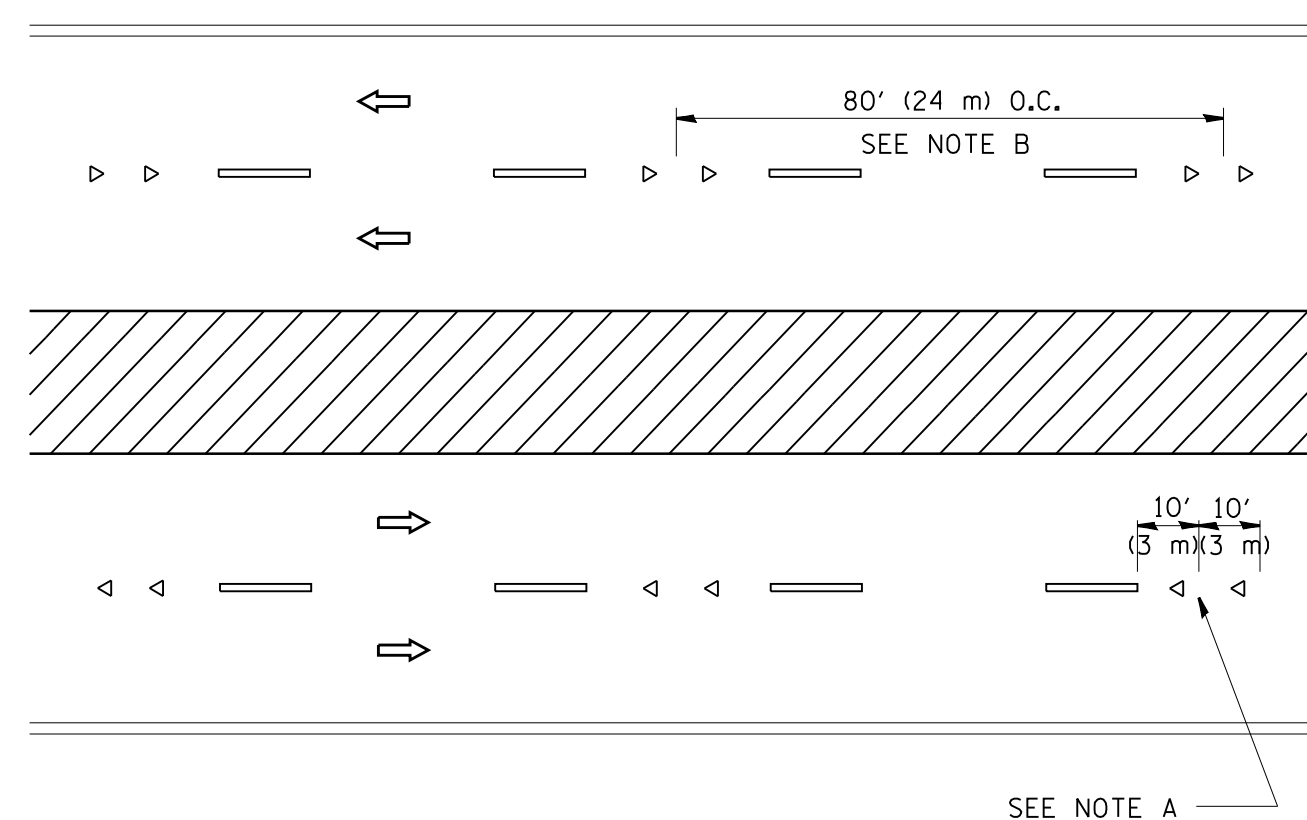
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

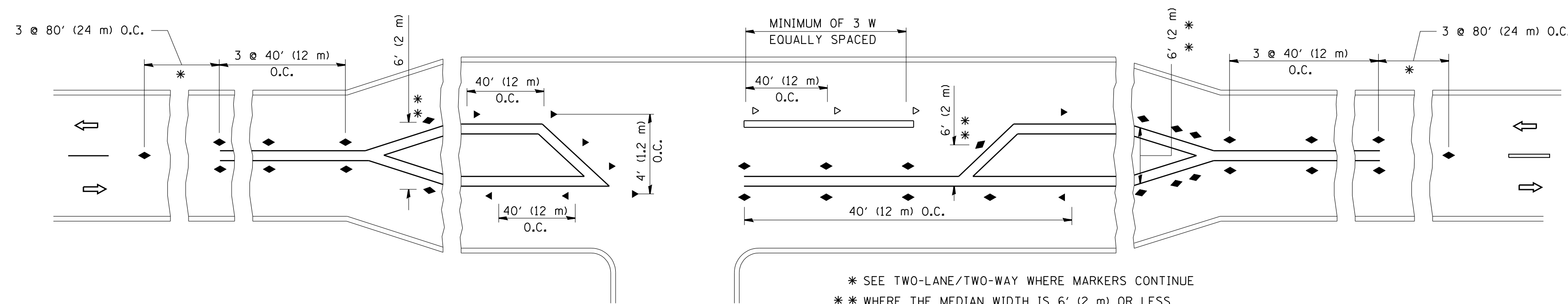
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



LEFT TURN

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

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

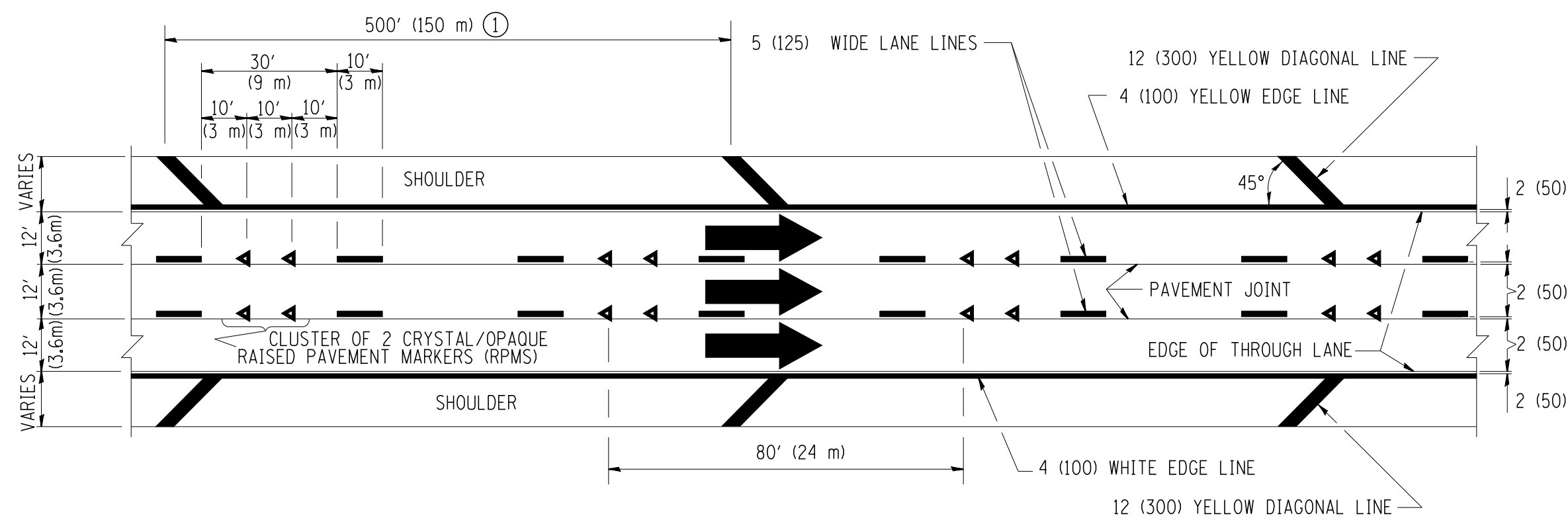
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

F.A.I. RTE. 90/94	SECTION 2012-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 102
TC-11		CONTRACT NO. 60V58		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

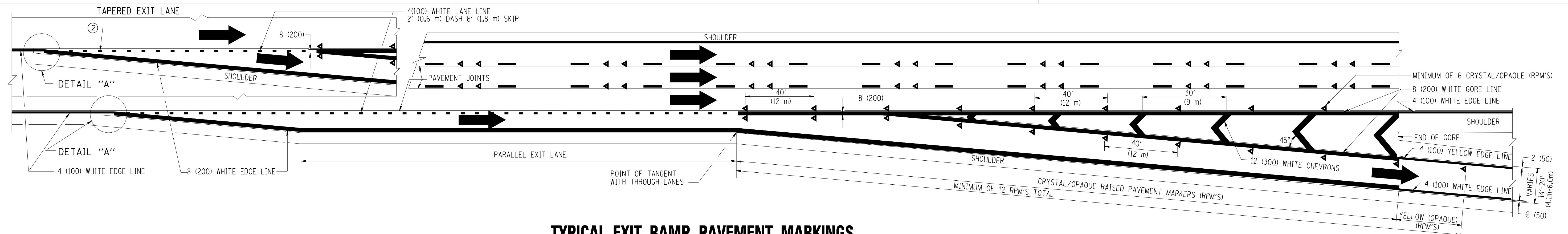




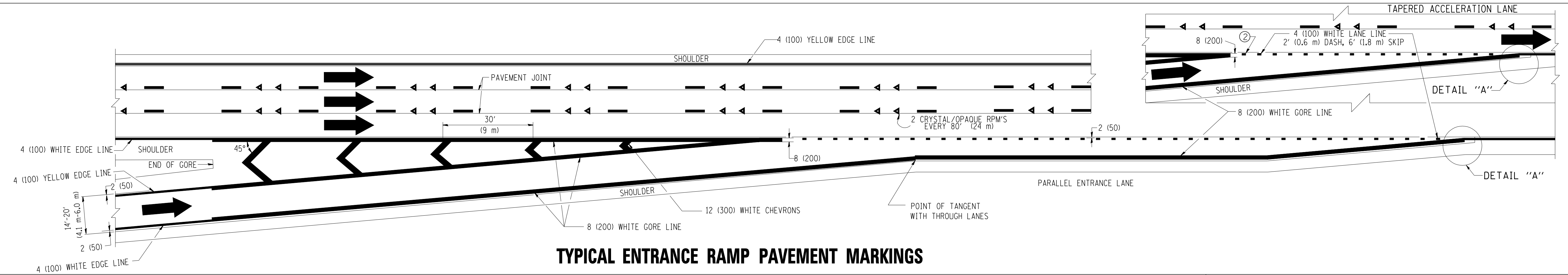
**TYPICAL EDGE LINES & LANE LINES**

**PAVEMENT MARKING MATERIALS**

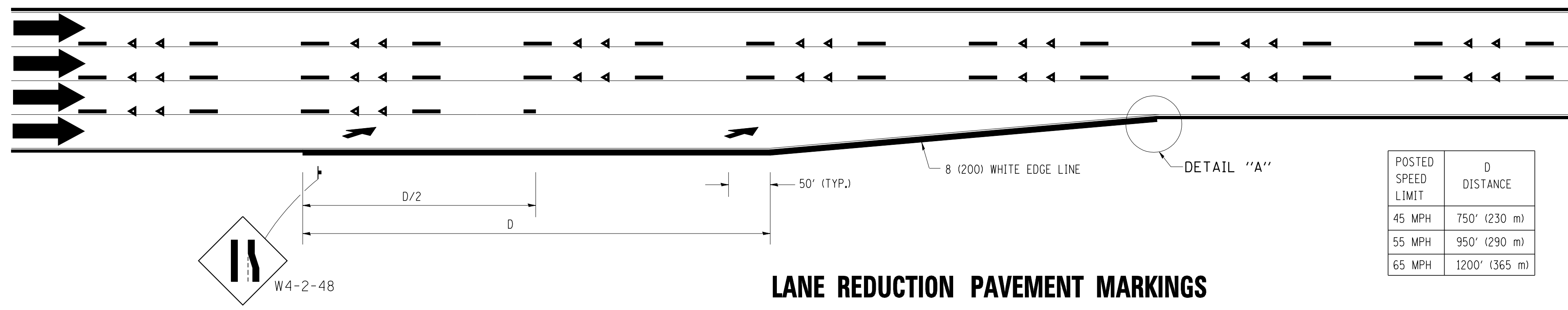
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS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



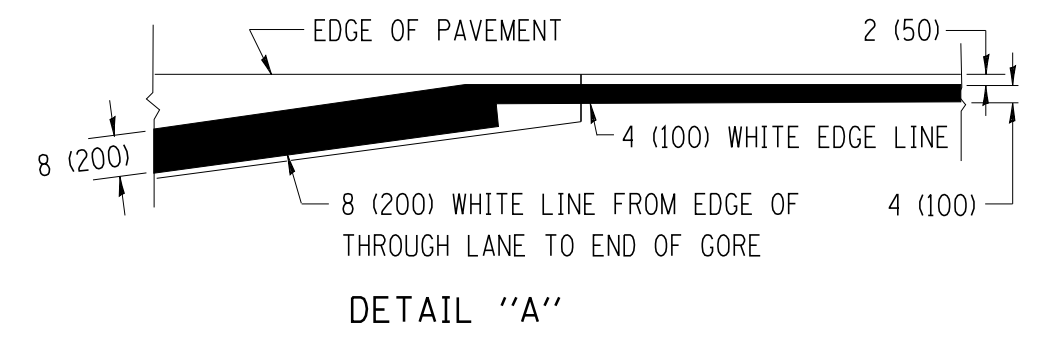
**TYPICAL EXIT RAMP PAVEMENT MARKINGS**



**TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS**

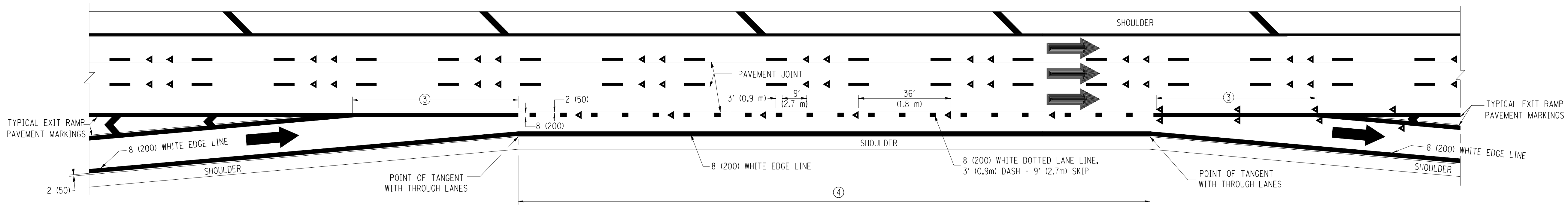


**LANE REDUCTION PAVEMENT MARKINGS**

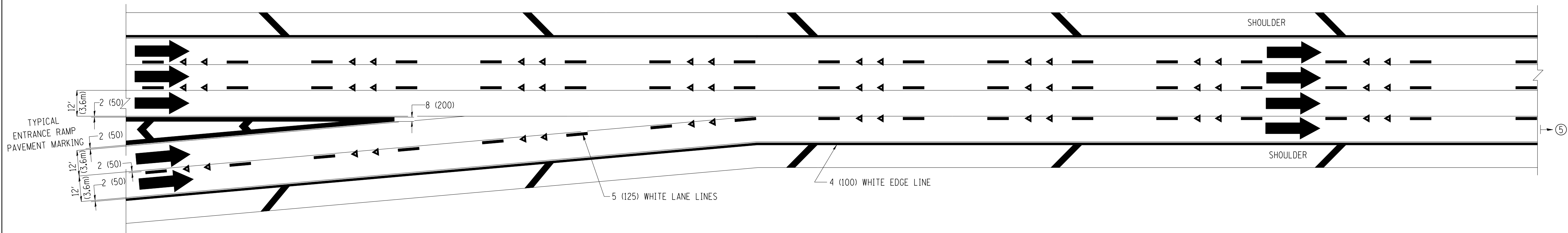


- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
  - ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED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

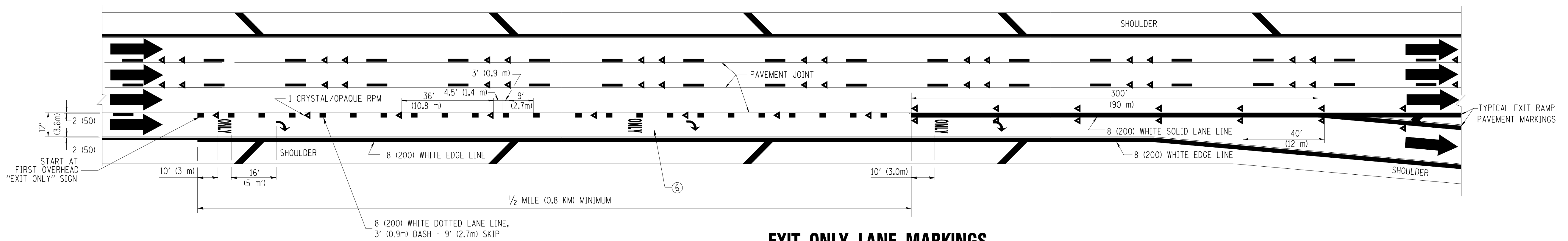
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



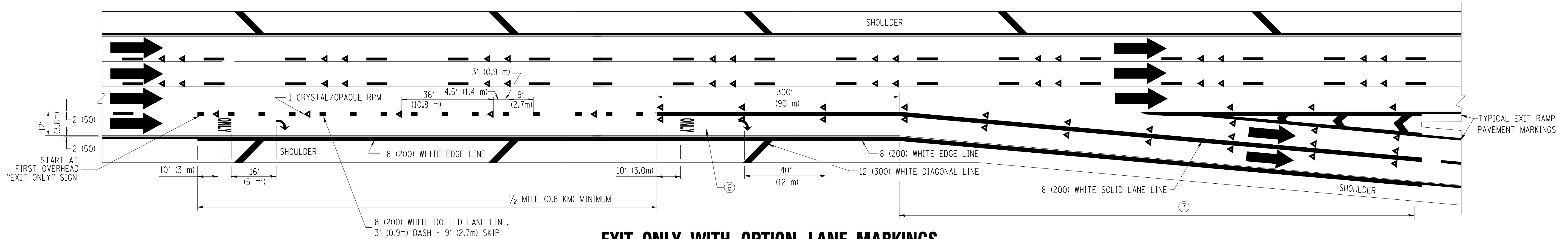
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

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

FILE NAME =	USER NAME = lqyaa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
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	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

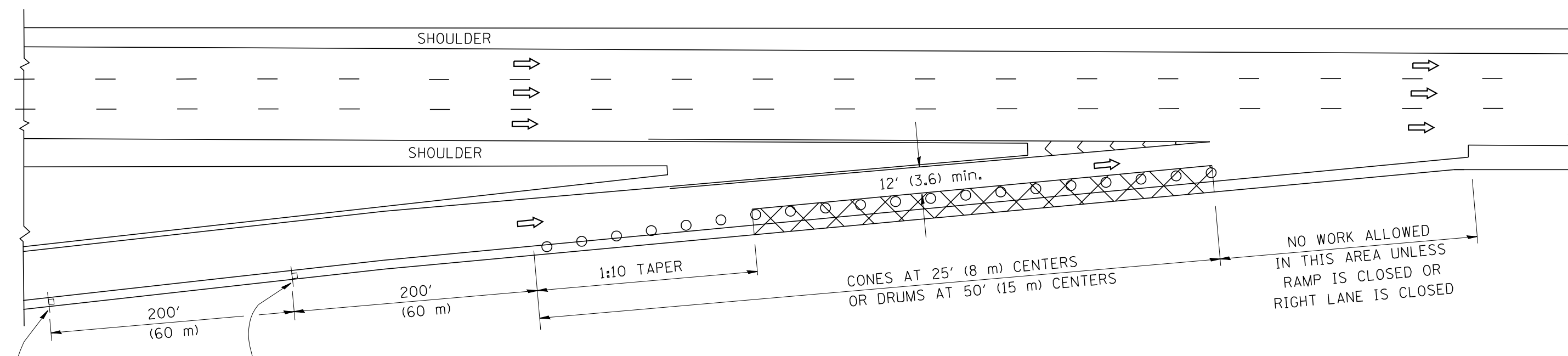
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS</b>			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

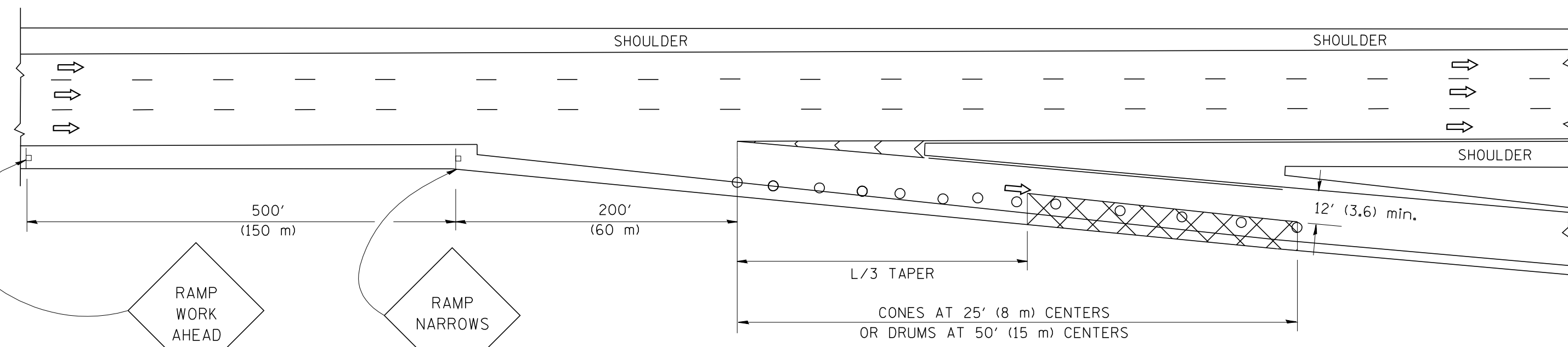
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	104
<b>TC-12</b>		CONTRACT NO. 60V58		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

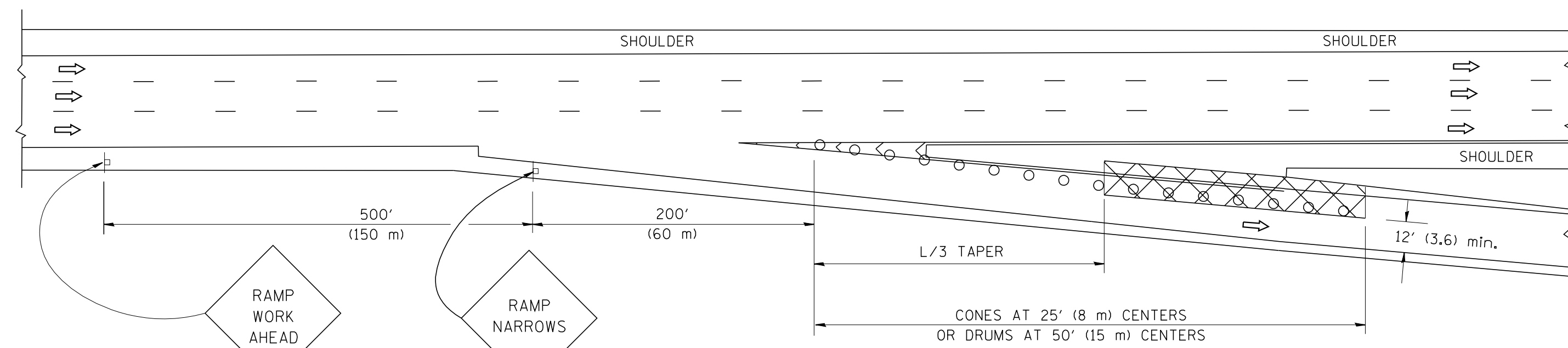
SHOULDER CLOSURE DETAILS



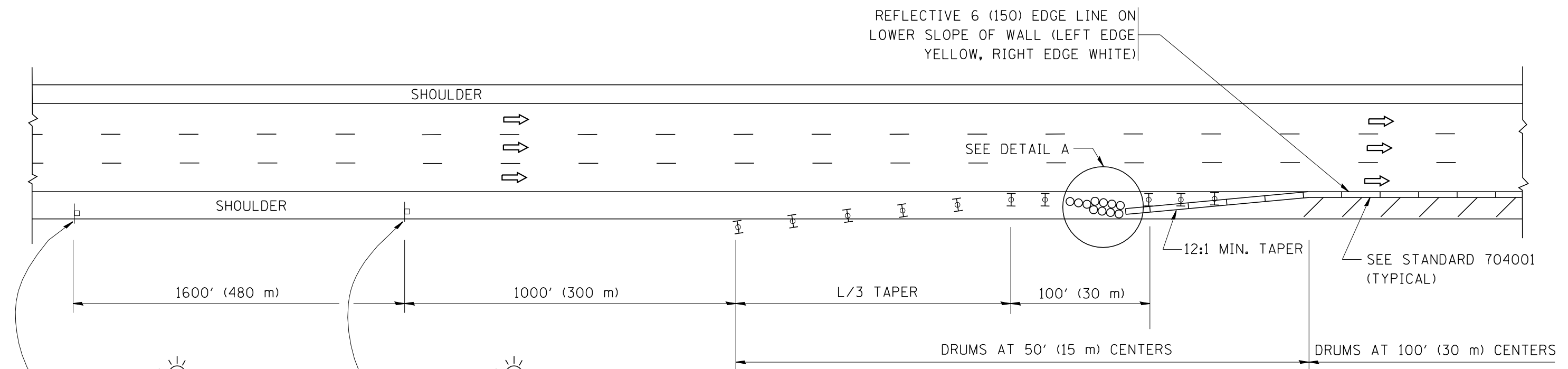
TYPICAL ENTRANCE RAMP



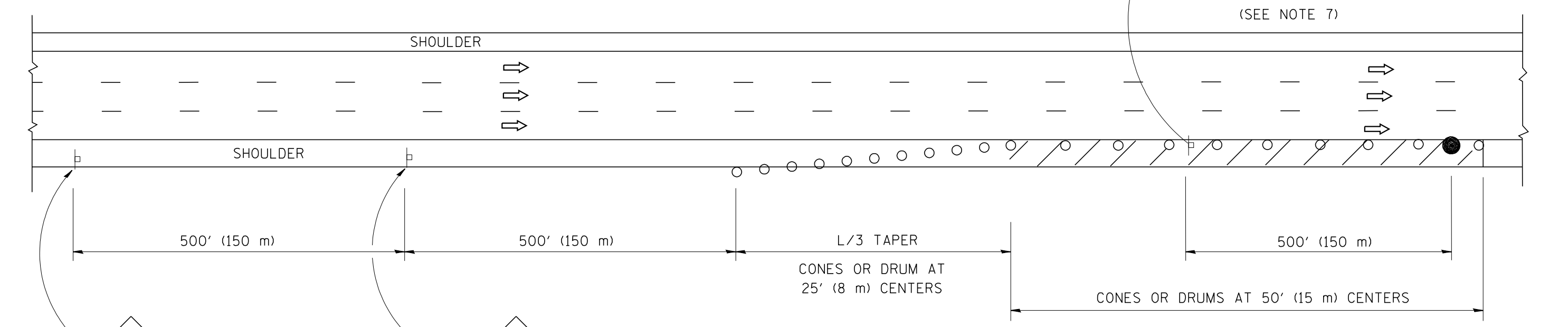
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

SYMBOLS

- ACTIVE 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

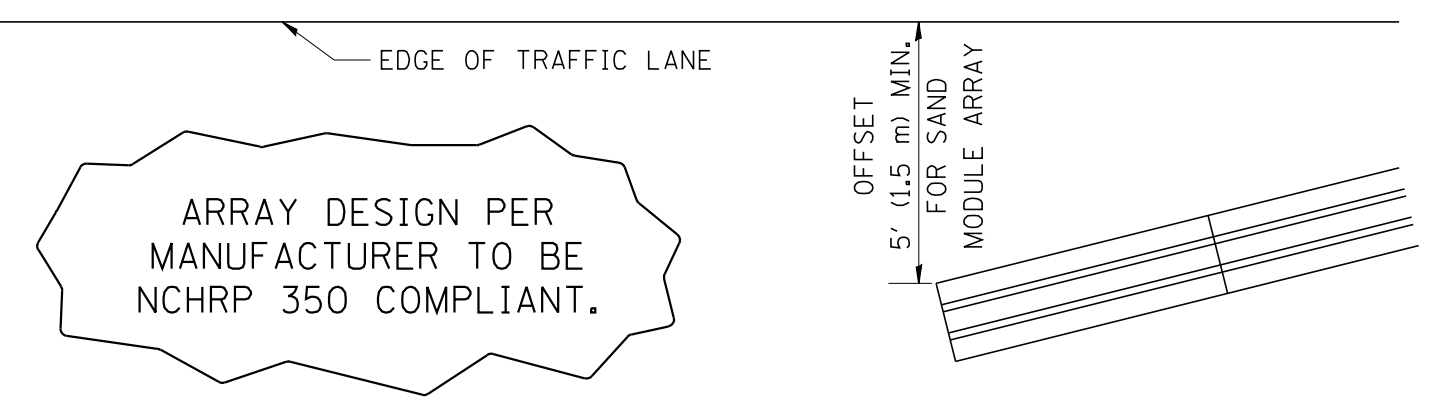
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH L=0.65(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 NARROW USE TYPE DEVICE TO MEET NCHRP350.
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 AVTIVITY 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.

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



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

FILE NAME = W:\dststd\22x34\17.dgn

USER NAME = lqjso  
PLOT SCALE = 50.0000' / IN.  
PLOT DATE = 1/26/2010

DESIGNED -  
DRAWN - D.W.S.  
CHECKED -  
DATE - 11-96

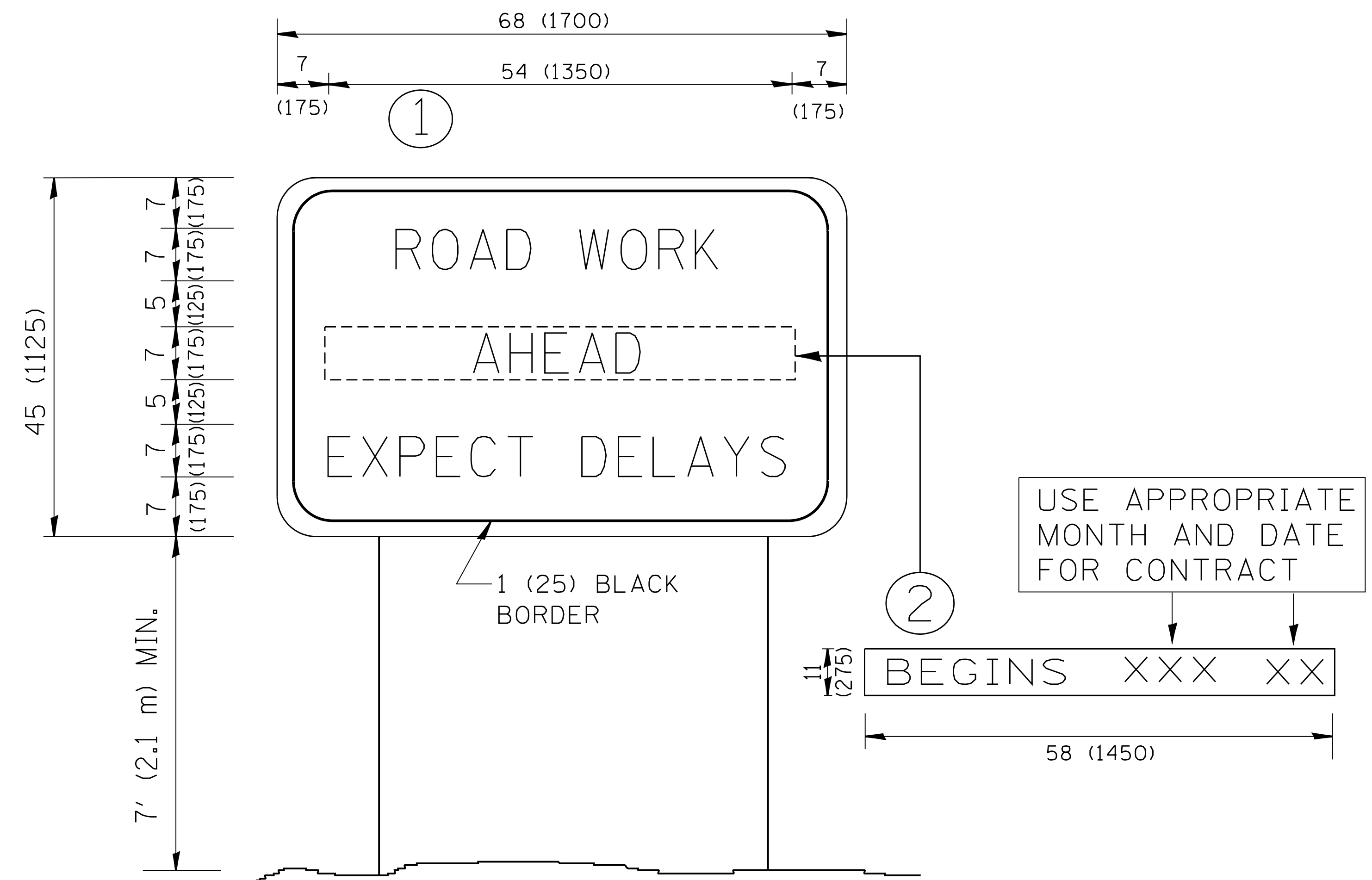
REVISED - 04-03  
REVISED - J.A.F. 12-06  
REVISED - S.P.B. 01-07  
REVISED - S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	105
TC-17		CONTRACT NO. 60V58		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegl@nbt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

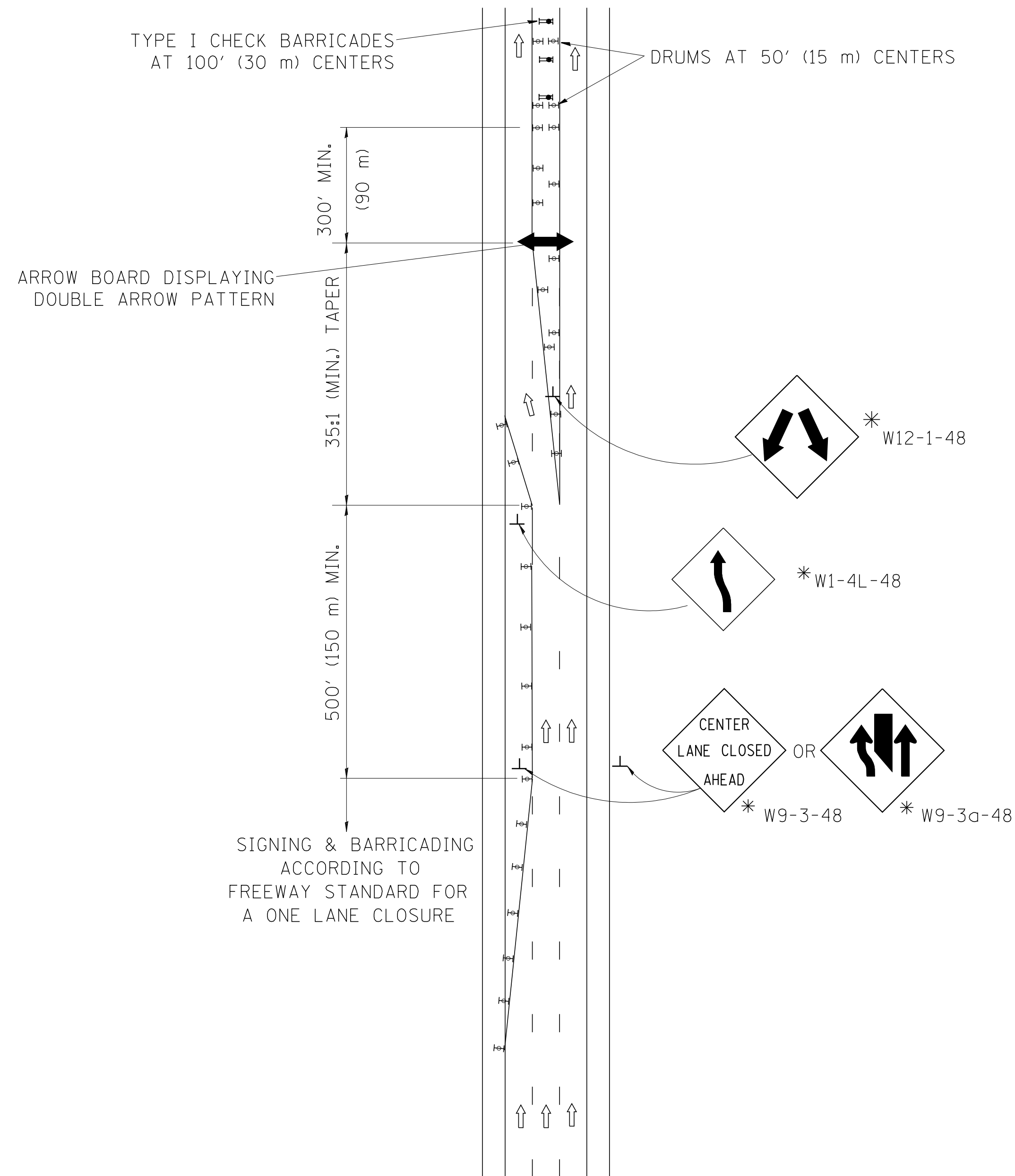
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

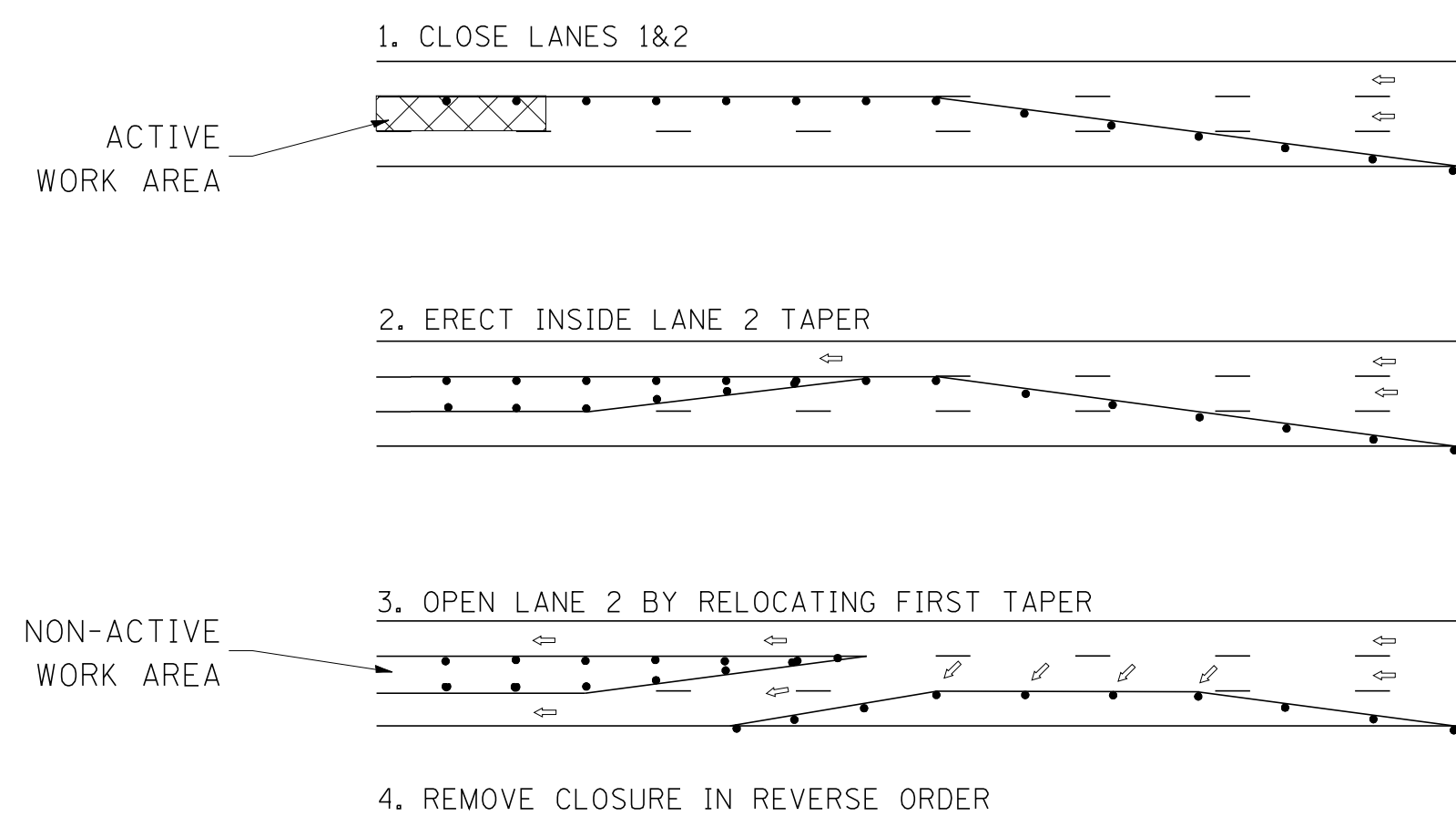
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. 90/94	SECTION 201-055BR	COUNTY COOK	TOTAL SHEETS 107	SHEET NO. 106
TC-22			CONTRACT NO. 60V58	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# CENTER LANE CLOSURE



## INSTALLATION SEQUENCE

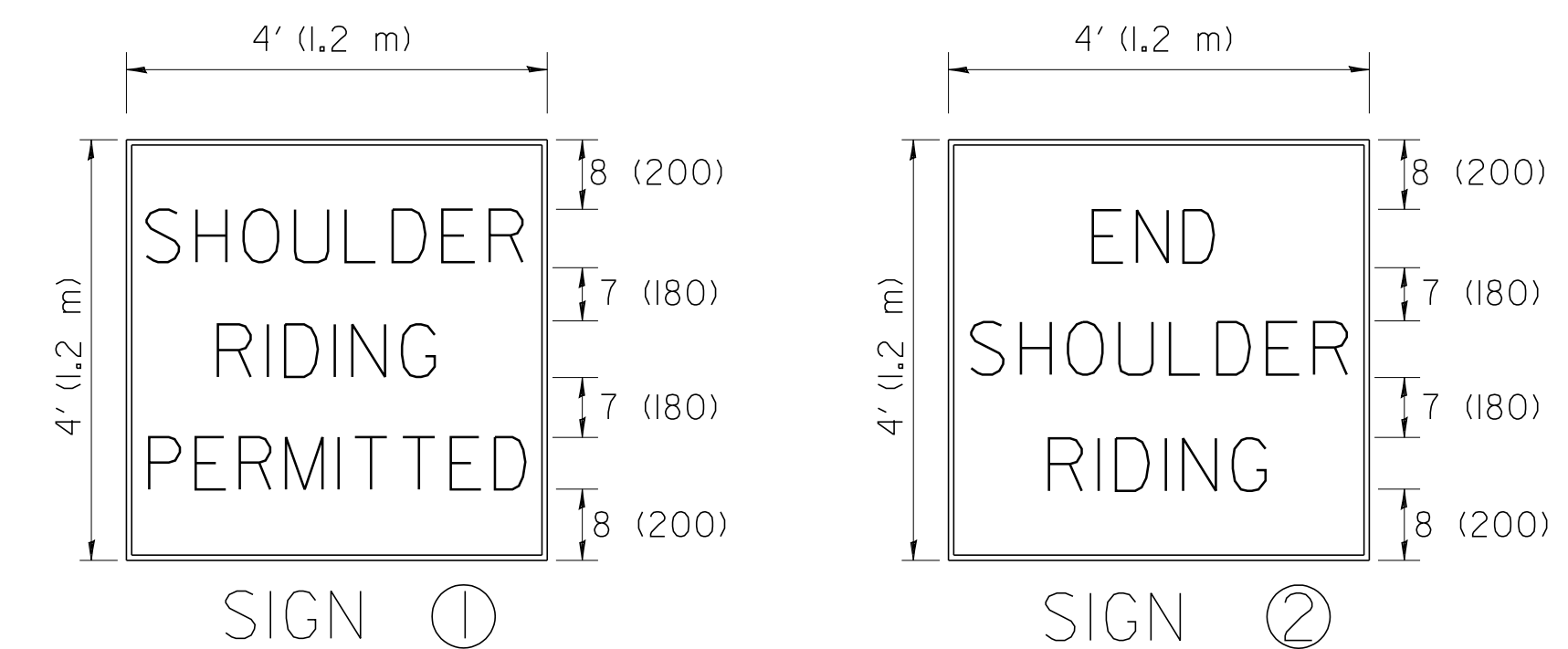
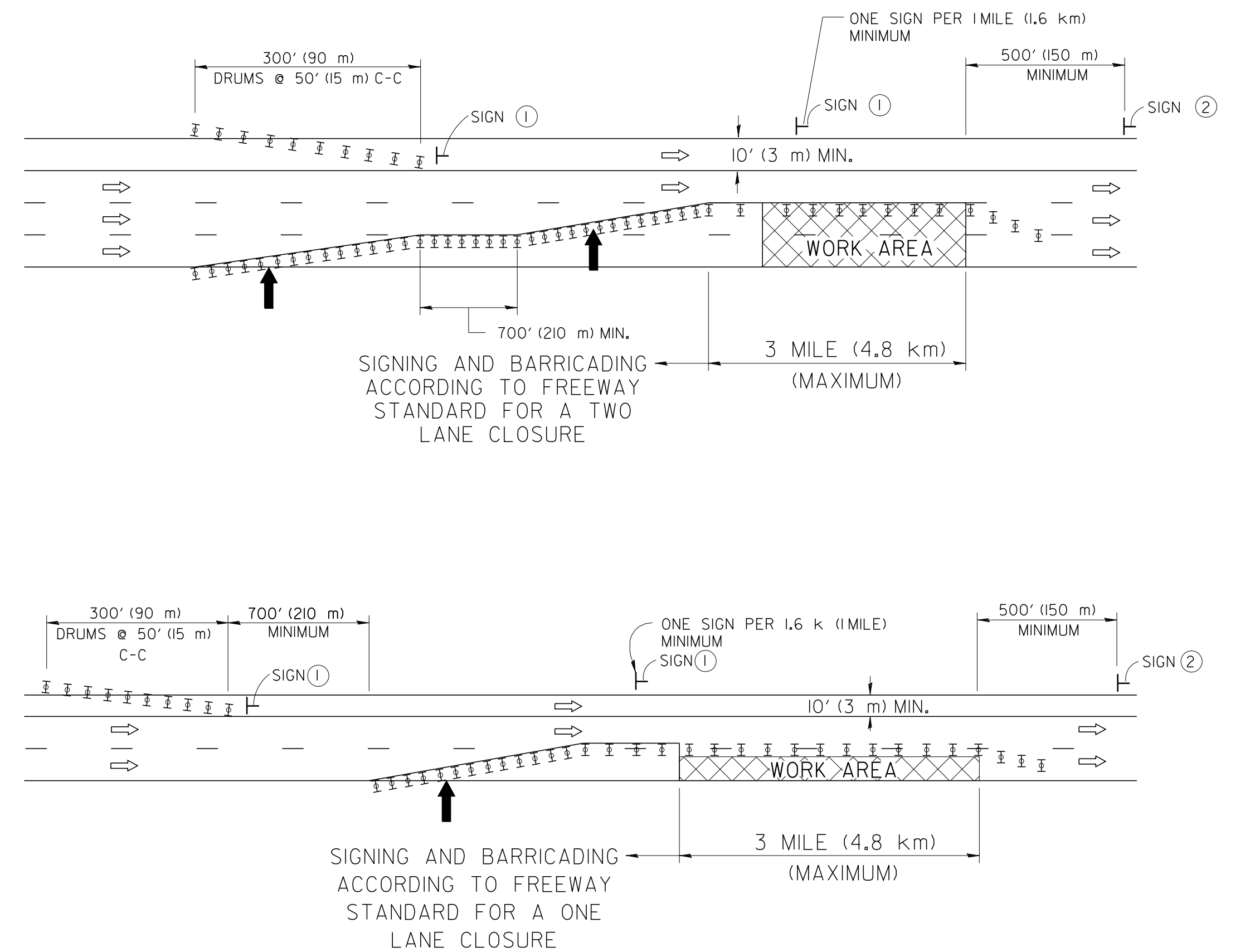


## NOTES

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

# SHOULDER LANE

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



6 (150) SERIES "C" LEGEND  
BLACK LEGEND  
WHITE REFLECT. BACKGROUND  
1(25) BORDER

## SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➡ ARROWBOARD
- ▣ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT \*
- ⊥ TYPE II BARRICADE, OR DRUM 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).

FILE NAME = W:\dststd\22x34\tc25.dgn

USER NAME = lqyso

PLOT SCALE = 50.000' / IN.

PLOT DATE = 1/26/2010

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED - J.A.F. 04-03

REVISED - S.P.B. 01-07

REVISED - S.P.B. 12-09

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
CENTER LANE CLOSURE SHOULDER LANE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2012-055BR	COOK	107	107
TC-25			CONTRACT NO. 60V58	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				