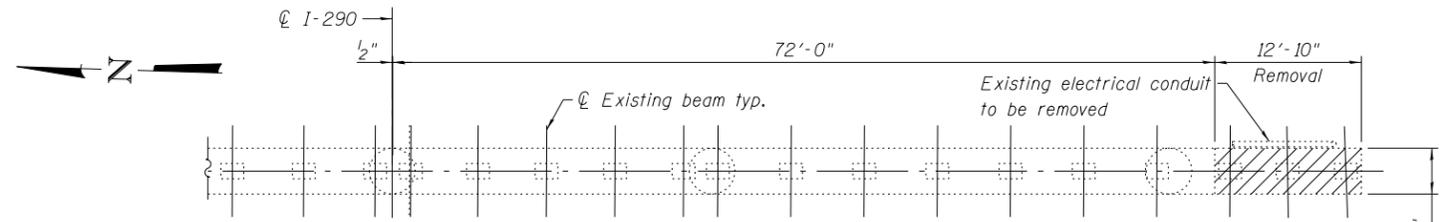
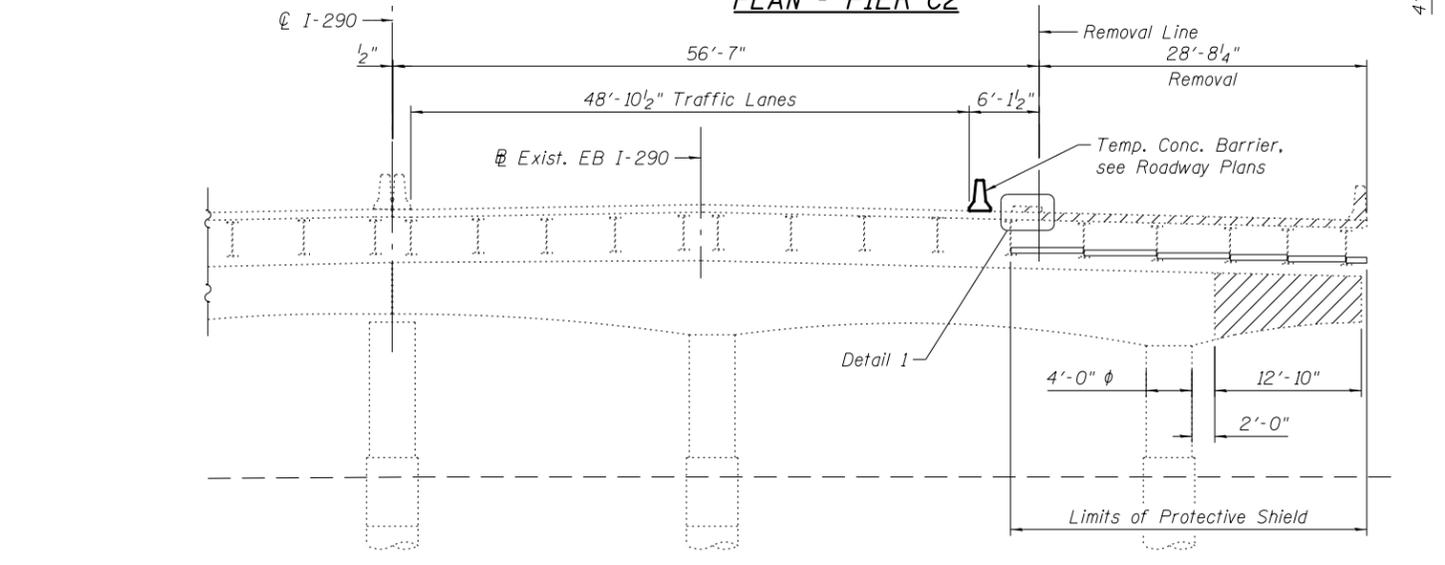


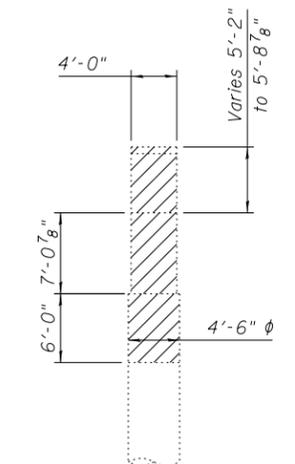
ELEVATION - PIER C1



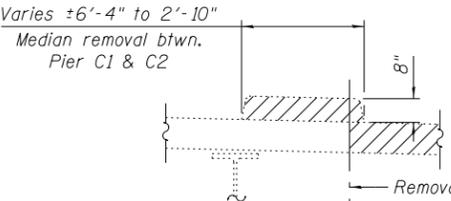
PLAN - PIER C2



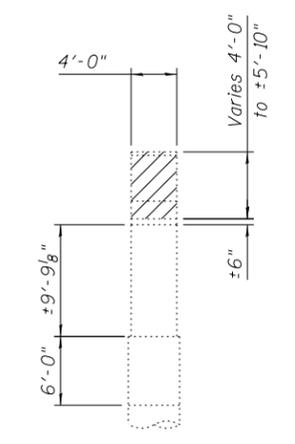
ELEVATION - PIER C2



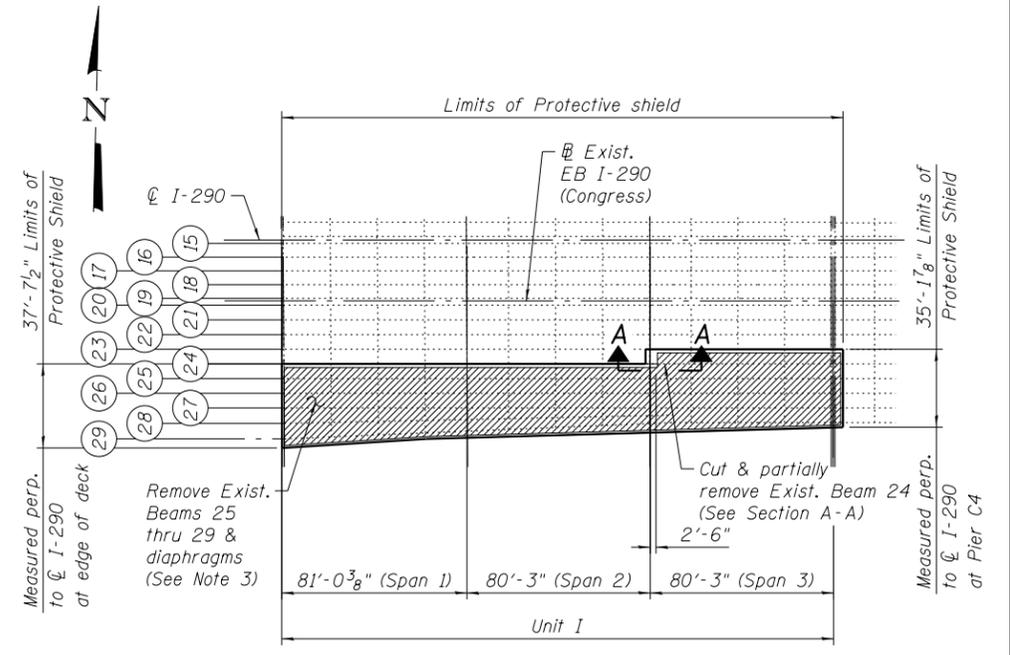
END VIEW - PIER C1



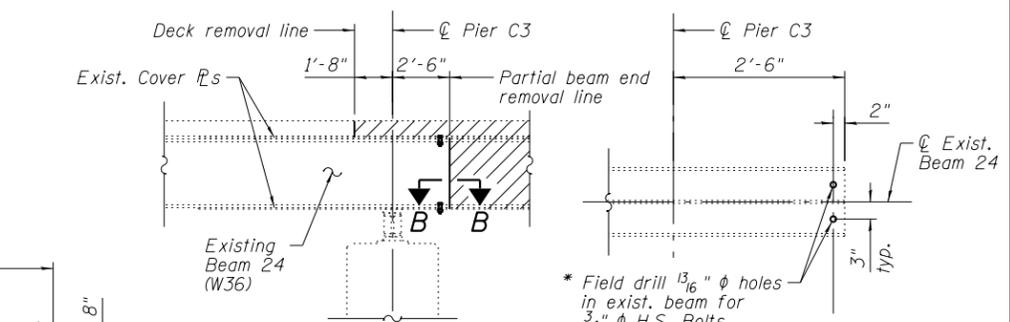
DETAIL 1



END VIEW - PIER C2



EXISTING BEAM REMOVAL PLAN



SECTION A-A

SECTION B-B

- Notes:
- See sheet S2-8, for stage removal plan.
  - All elevation views are looking East. Horizontal dimensions are measured along  $\text{C I-290}$ .
  - All superstructure removal shall be included in the cost of Removal of Existing Concrete Deck.
  - All substructure removal shall be included in the cost of Concrete Removal.
  - Removal lines are different for the superstructure and substructure.
  - Hatched areas indicates removal of existing structures.
  - Contractor shall provide support and/or Support systems for the existing pier caps. The support and/or Support systems shall be approved by the Engineer. Such approval will not relieve the Contractor of responsibility for the safety of the structure. See Special Provisions.
  - For quantity of Temporary Concrete Barrier, see Roadway Plans.
  - The removal of all cables, conduits and embedded junction boxes will not be paid for separately but shall be included in the cost of the Removal of Existing Concrete Deck.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	41.5

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**PARSONS BRINCKERHOFF**

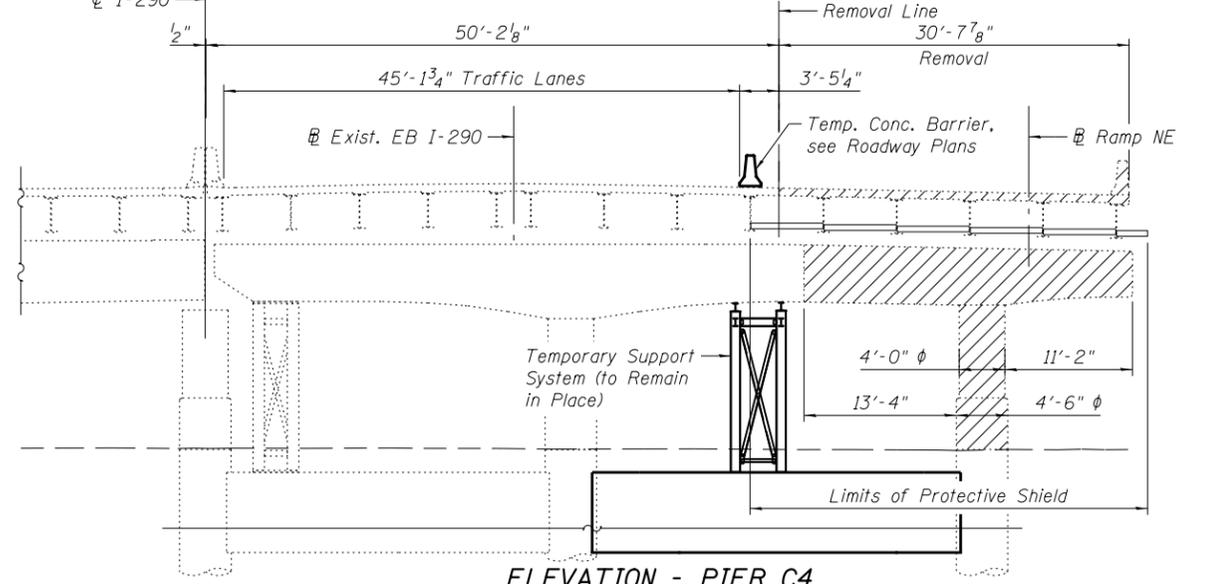
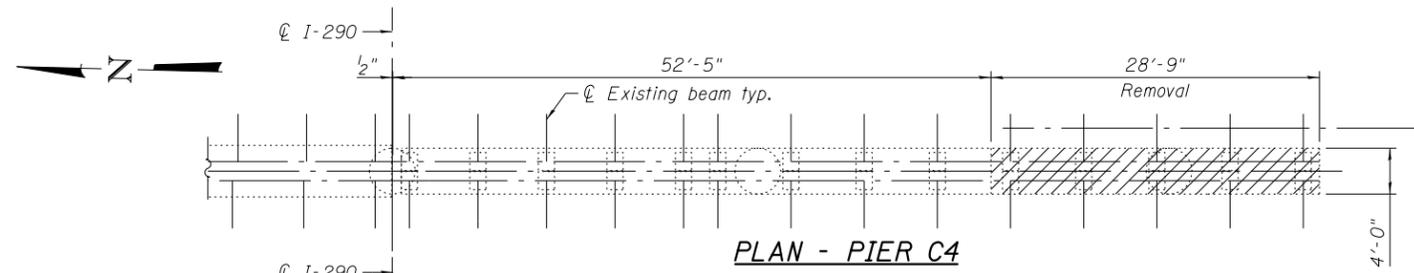
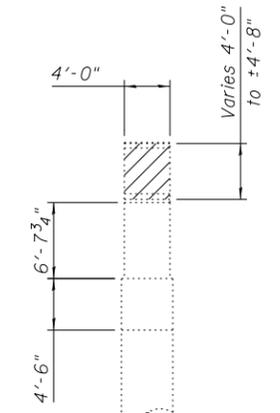
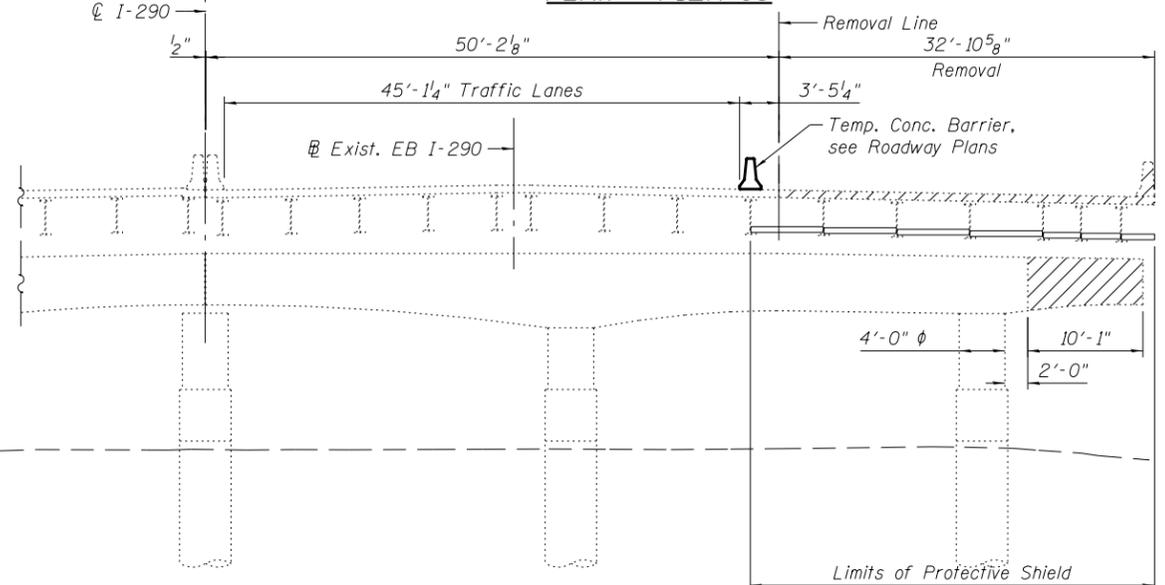
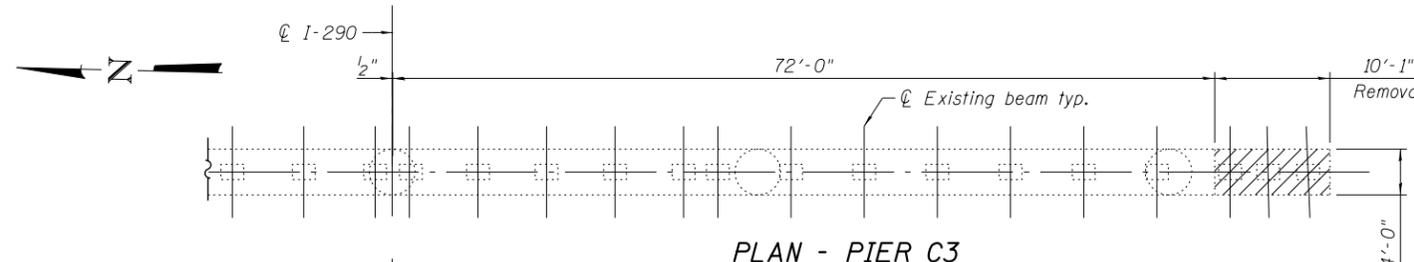
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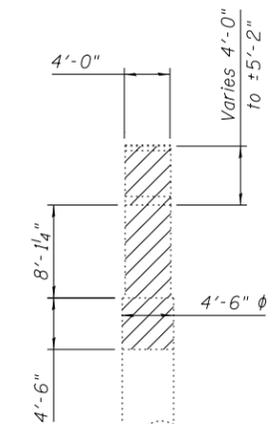
EXISTING STRUCTURE REMOVAL DETAILS II  
STRUCTURE NO. 016-0461

SHEET NO. S2-9 OF S2-22 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	201
CONTRACT NO. 62B76			ILLINOIS FED. AID PROJECT	



Temporary Shoring  
(No. beams to support = 5),  
see note 9 & 10



- Notes:
- See sheet S2-8, for stage removal plan.
  - All elevation views are looking East. Horizontal dimensions are measured along  $\bar{C}$  Pier C1 or C2.
  - All superstructure removal shall be included in the cost of Removal of Existing Concrete Deck.
  - All substructure removal shall be included in the cost of Concrete Removal.
  - Removal lines are different for the superstructure and substructure.
  - Hatched areas indicates removal of existing structures.
  - Contractor shall provide support and/or Support systems for the existing pier caps. The support and/or Support systems shall be approved by the Engineer. Such approval will not relieve the Contractor of responsibility for the safety of the structure. See Special Provisions.
  - For quantity of Temporary Concrete Barrier, see Roadway Plans.
  - Temporary Shoring is required to support existing beams affected by pier removal and reconstruction operations. See Special Provisions.
  - Service reactions for Temporary Shoring of existing beams, are as follows:  
DL = 29 kips/beam  
LL = 46 kips/beam  
Imp. = 12 kips/beam  
Tot. = 87 kips/beam

**BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	33.2
Temporary Shoring	Each	1

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**PARSONS  
BRINCKERHOFF**

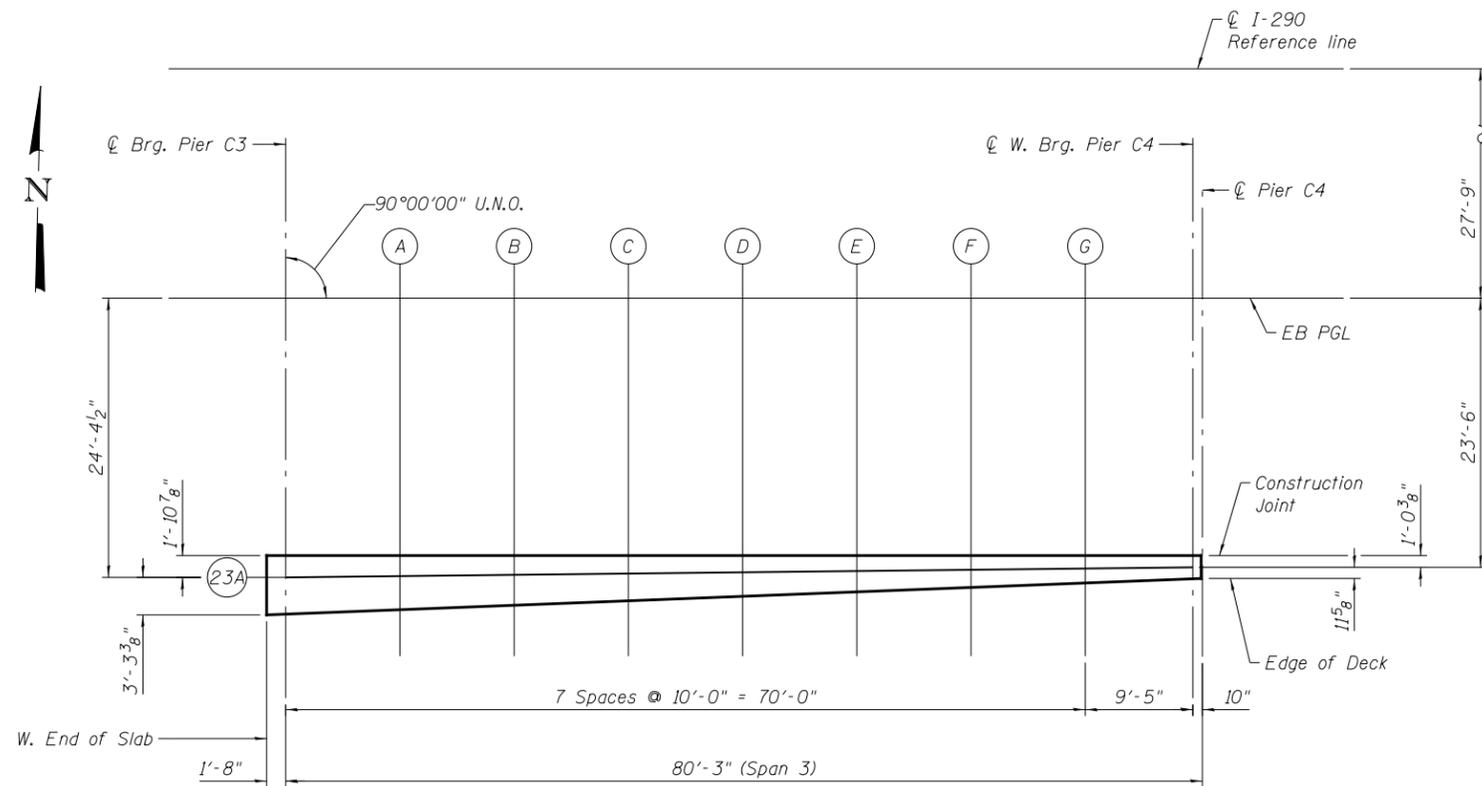
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

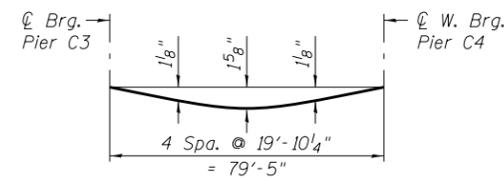
**EXISTING STRUCTURE REMOVAL DETAILS III  
STRUCTURE NO. 016-0461**

SHEET NO. S2-10 OF S2-22 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	202
			CONTRACT NO. 62B76	
ILLINOIS FED. AID PROJECT				



**PLAN**



**DEAD LOAD DEFLECTION DIAGRAM**

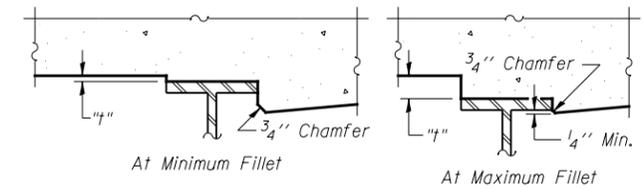
(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables.

Notes:

- Theoretical Top of Grade Elevations are based on survey data. Contractor must ensure top of grade elevations along the construction joint match the existing deck elevation.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals as shown in this sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on this sheet, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**

**EASTBOUND PROFILE GRADE LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	5162+24.03	0.00	611.52	611.52
☉ Brg. Pier C3	5162+25.70	0.00	611.54	611.54
A	5162+35.70	0.00	611.68	611.68
B	5162+45.70	0.00	611.81	611.81
C	5162+55.70	0.00	611.93	611.93
D	5162+65.70	0.00	612.05	612.05
E	5162+75.70	0.00	612.13	612.13
F	5162+85.70	0.00	612.21	612.21
G	5162+95.70	0.00	612.29	612.29
☉ W. Brg. Pier C4	5163+05.11	0.00	612.37	612.37
☉ Pier C4	5163+05.95	0.00	612.38	612.38

**CONSTRUCTION JOINT**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	5162+24.03	22.47	611.16	611.16
☉ Brg. Pier C3	5162+25.70	22.47	611.18	611.18
A	5162+35.70	22.47	611.33	611.38
B	5162+45.70	22.47	611.46	611.55
C	5162+55.70	22.47	611.57	611.69
D	5162+65.70	22.47	611.68	611.81
E	5162+75.70	22.47	611.76	611.87
F	5162+85.70	22.47	611.85	611.94
G	5162+95.70	22.47	611.93	611.97
☉ W. Brg. Pier C4	5163+05.11	22.47	611.99	611.99
☉ Pier C4	5163+05.95	22.47	611.99	611.99

**BEAM 23A**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	5162+24.03	24.39	611.13	611.13
☉ Brg. Pier C3	5162+25.70	24.38	611.15	611.15
A	5162+35.70	24.26	611.30	611.35
B	5162+45.70	24.15	611.43	611.52
C	5162+55.70	24.04	611.54	611.66
D	5162+65.70	23.93	611.65	611.78
E	5162+75.70	23.82	611.74	611.85
F	5162+85.70	23.71	611.83	611.92
G	5162+95.70	23.60	611.91	611.95
☉ W. Brg. Pier C4	5163+05.11	23.50	611.97	611.97
☉ Pier C4	5163+05.95	23.49	611.97	611.97

**EDGE OF DECK**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Slab	5162+24.03	27.65	611.09	611.09
☉ Brg. Pier C3	5162+25.70	27.59	611.11	611.11
A	5162+35.70	27.20	611.26	611.31
B	5162+45.70	26.81	611.39	611.48
C	5162+55.70	26.42	611.51	611.63
D	5162+65.70	26.03	611.62	611.75
E	5162+75.70	25.64	611.71	611.82
F	5162+85.70	25.25	611.81	611.90
G	5162+95.70	24.86	611.89	611.93
☉ W. Brg. Pier C4	5163+05.11	24.50	611.96	611.96
☉ Pier C4	5163+05.95	24.47	611.96	611.96

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**PARSONS BRINCKERHOFF**

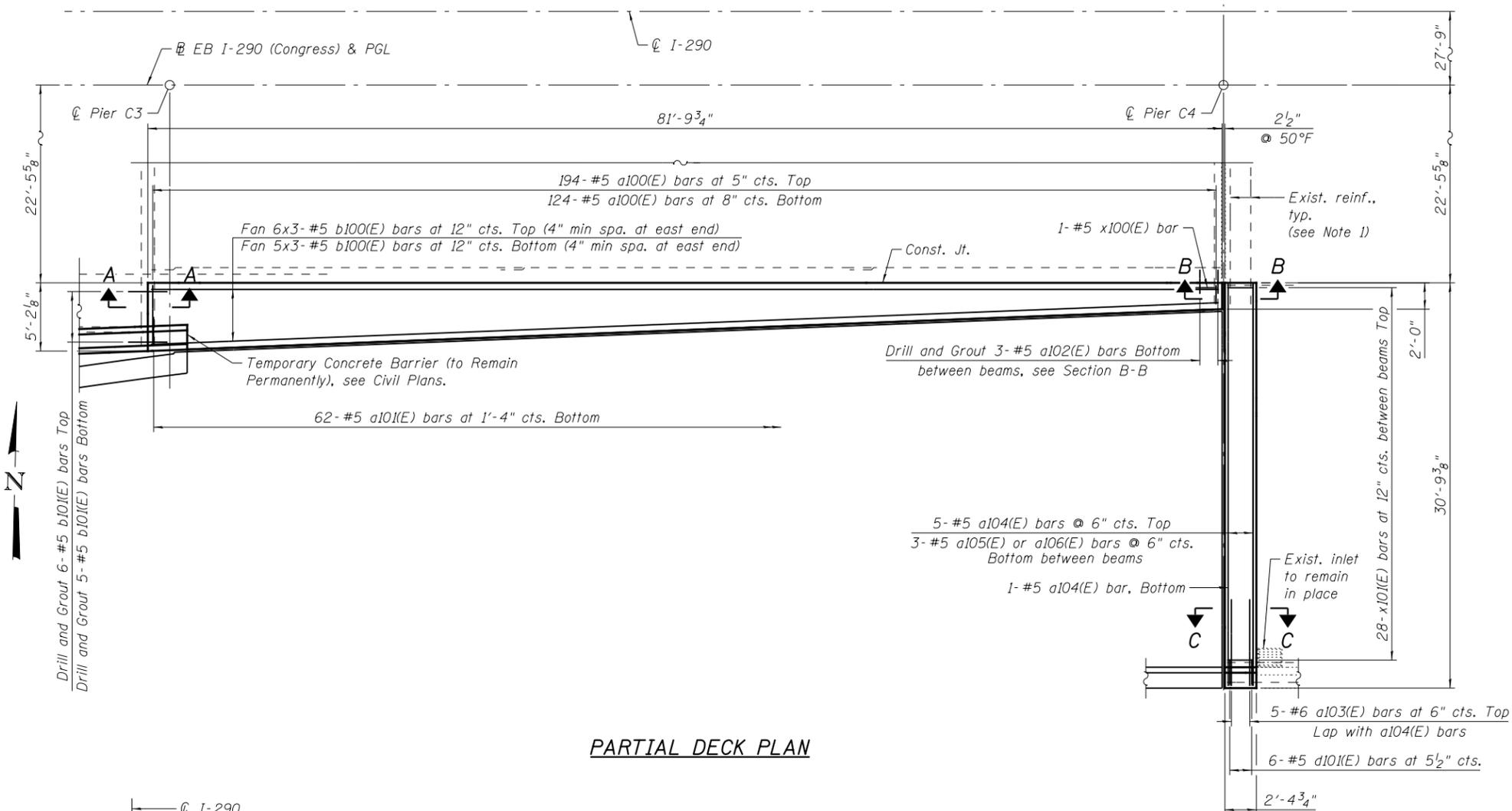
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PLOT DATE =	5/6/2016	CHECKED -	JIG	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

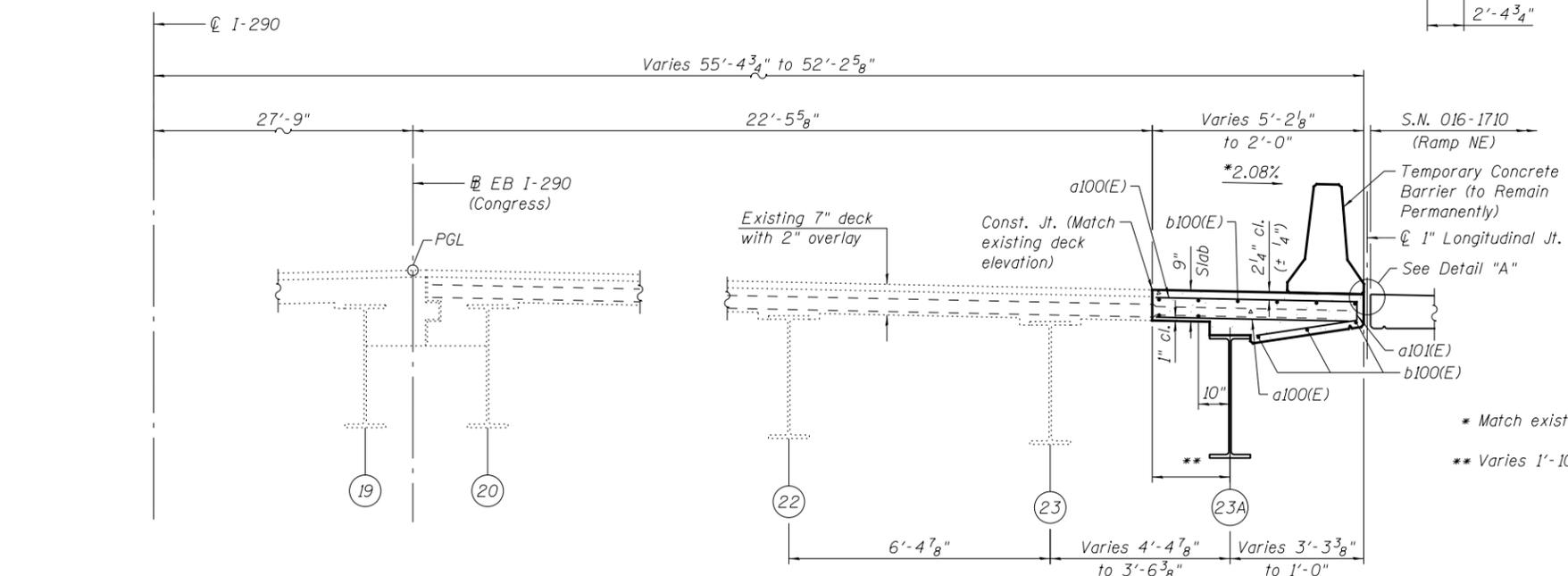
**TOP OF SLAB ELEVATION PLAN  
STRUCTURE NO. 016-0461**

SHEET NO. S2-11 OF S2-22 SHEETS

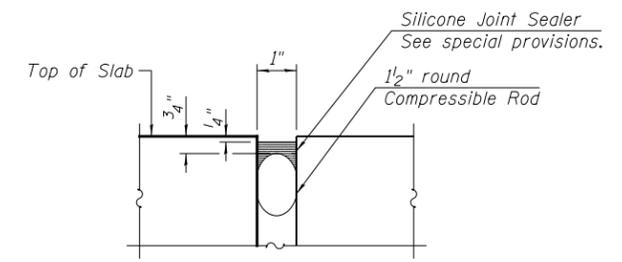
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90/94/290	2015-080R&B	COOK	250	203
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				



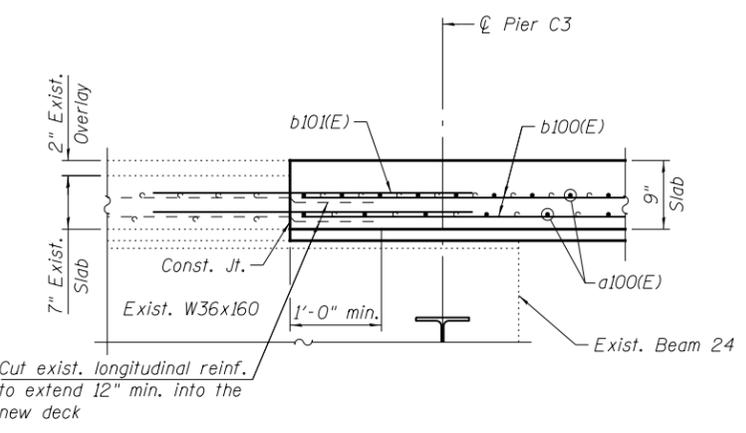
**PARTIAL DECK PLAN**



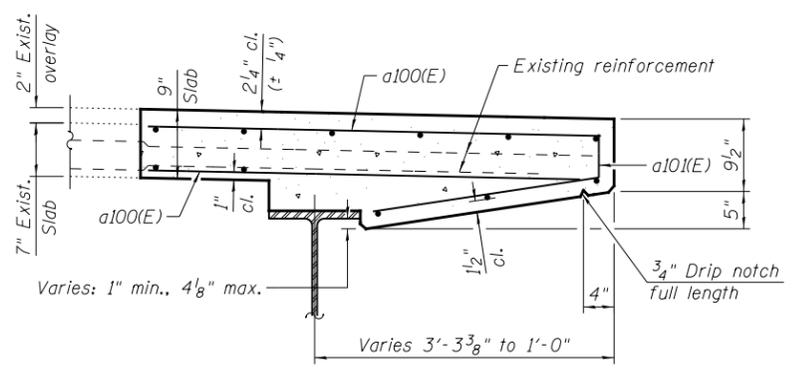
**CROSS SECTION**  
(Looking East)



**DETAIL "A"**



**SECTION A-A**



**SECTION THRU DECK OVERHANG**

- Notes:
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Removal of Existing Concrete Deck.
  - Any existing reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in the cost of Removal of Existing Concrete Deck.
  - Bars indicated thus 6 x 3-#5 etc. indicates 6 lines of bars with 3 lengths per line.
  - See sheet S2-13 for Section B-B, View C-C, Superstructure Details, and Bill of Material.
  - Drilling and grouting of bars shall be done in accordance with Art. 584 of the Standard Specifications. Cost included with Reinforcement Bars, Epoxy Coated.

**MINIMUM BAR LAP**  
#5 bar = 3'-3"

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**PARSONS BRINCKERHOFF**

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PLOT SCALE = N.T.S.	CHECKED - JIG	REVISED -
PLOT DATE = 5/6/2016	DRAWN - IJL	REVISED -
	CHECKED - JIG	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

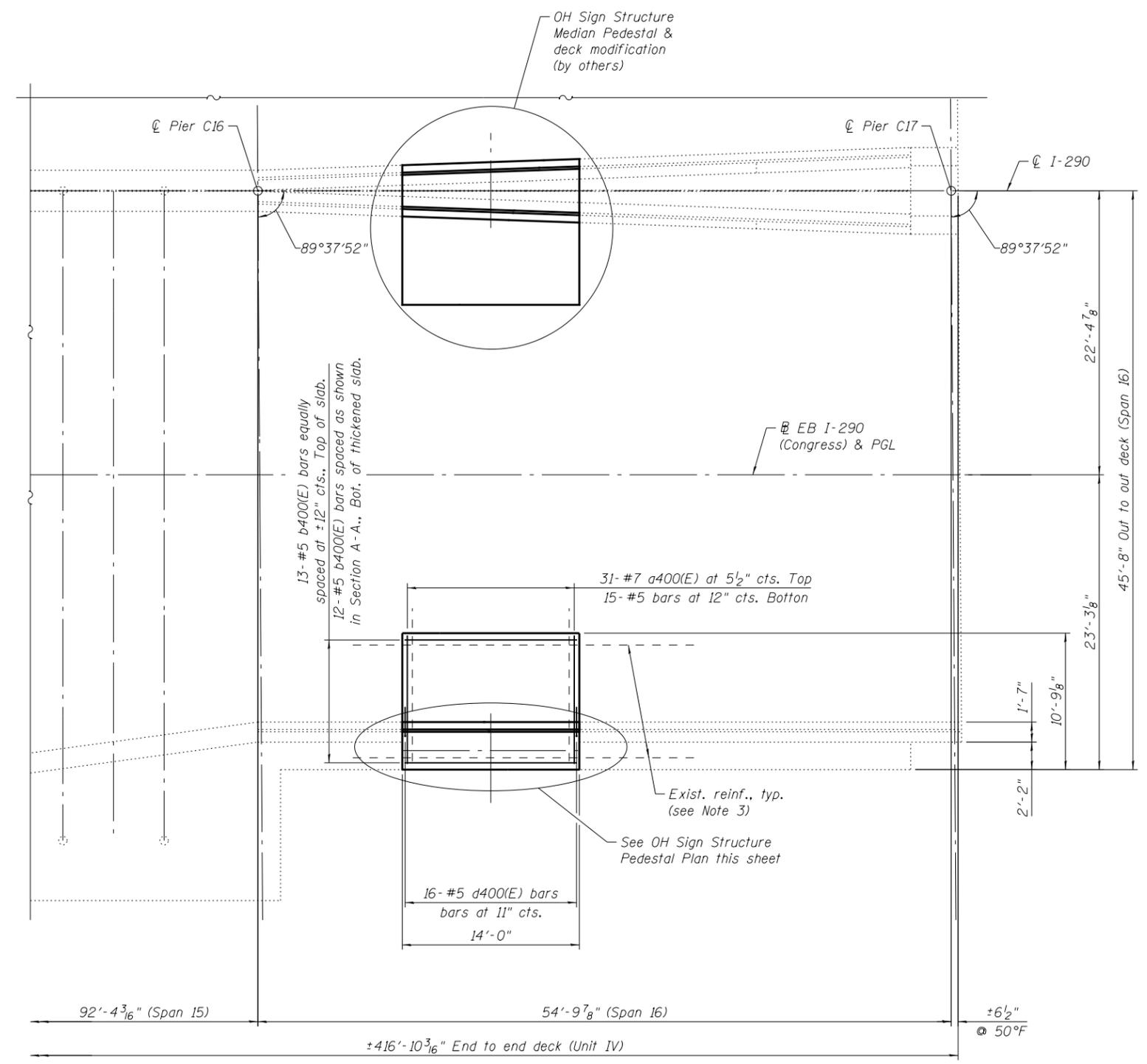
**DECK PLAN - UNIT I**  
**STRUCTURE NO. 016-0461**

SHEET NO. S2-12 OF S2-22 SHEETS

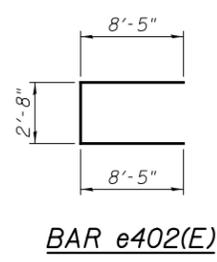
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	204
CONTRACT NO. 62B76				

ILLINOIS FED. AID PROJECT

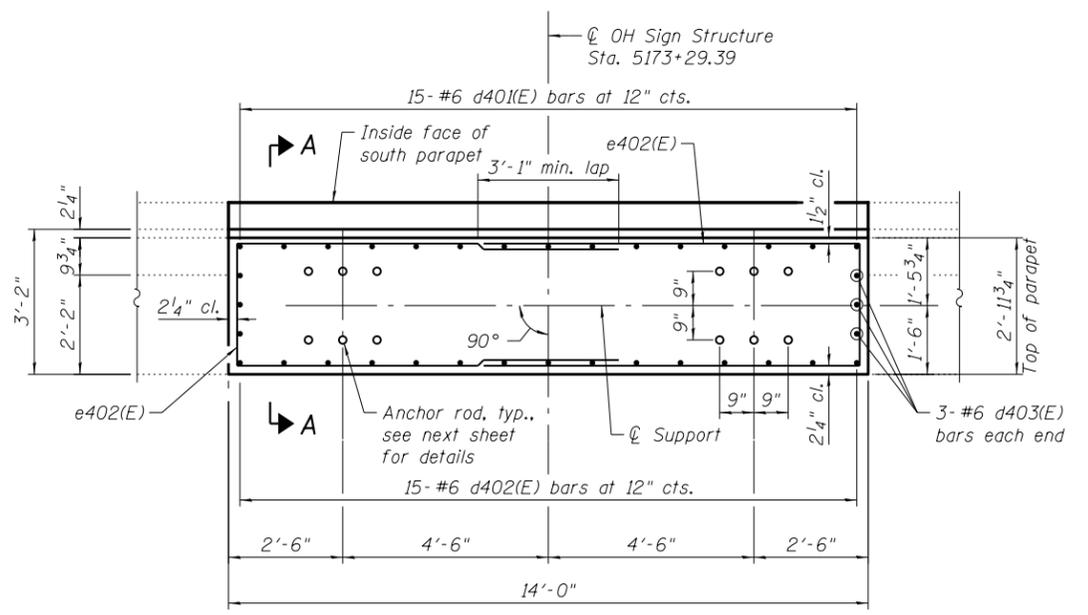




**DECK PLAN**



- Notes:
1. See sheet S2-15, for Section A-A, superstructure details and Bill of Material.
  2. For sign structure, see Civil Plans.
  3. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Removal of Existing Concrete Deck. Any existing reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in the cost of Removal of Existing Concrete Deck.



**OH SIGN STRUCTURE PEDESTAL PLAN**

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**PARSONS BRINCKERHOFF**

USER NAME =	lopezgonzalez	DESIGNED -	PJL	REVISED -	
		CHECKED -	JIG	REVISED -	
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PLOT DATE =	5/6/2016	CHECKED -	JIG	REVISED -	

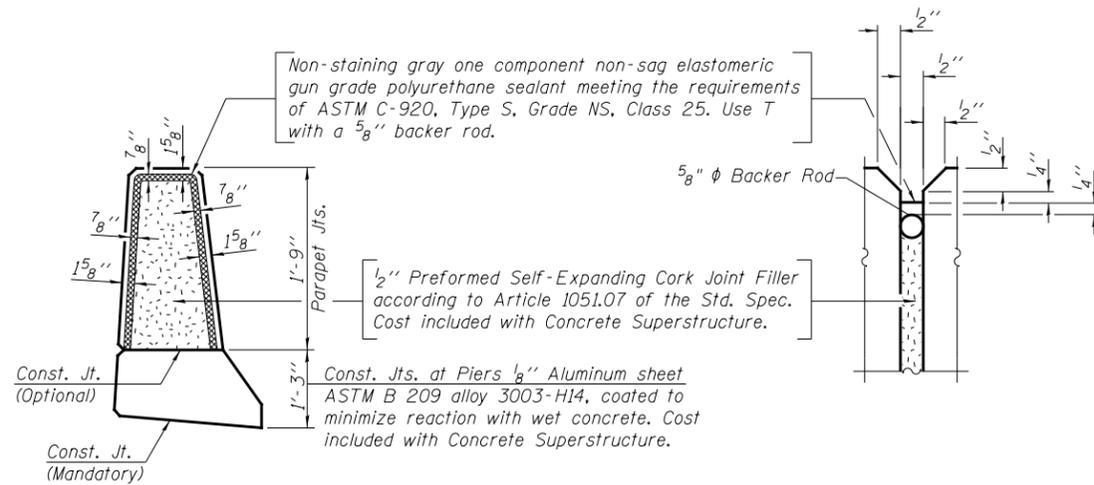
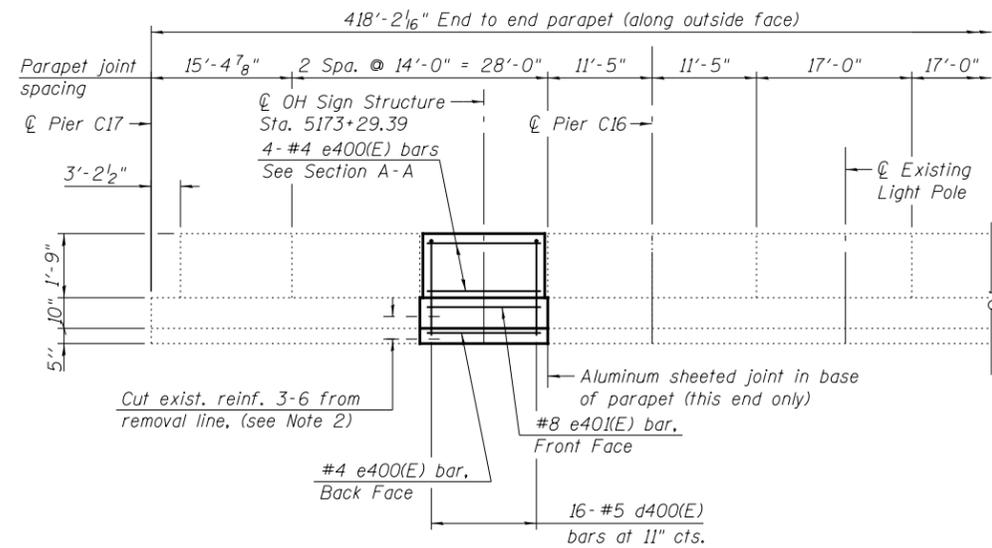
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK PLAN - UNIT IV  
STRUCTURE NO. 016-0461**

SHEET NO. S2-14 OF S2-22 SHEETS

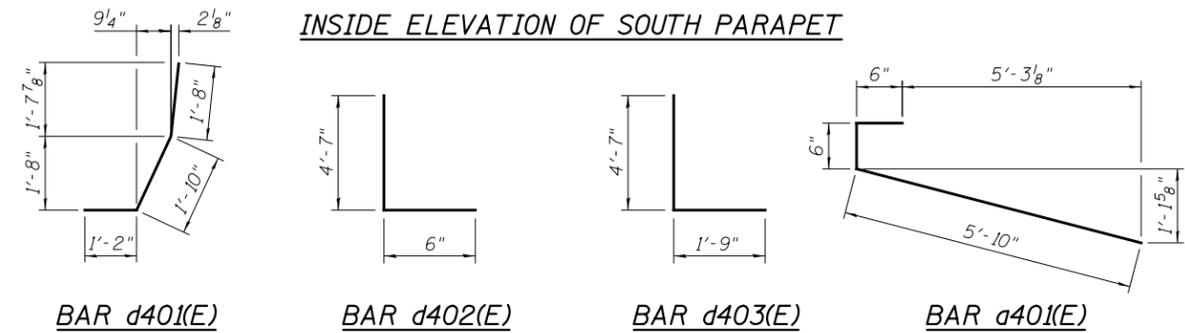
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	206
CONTRACT NO. 62B76				

ILLINOIS FED. AID PROJECT

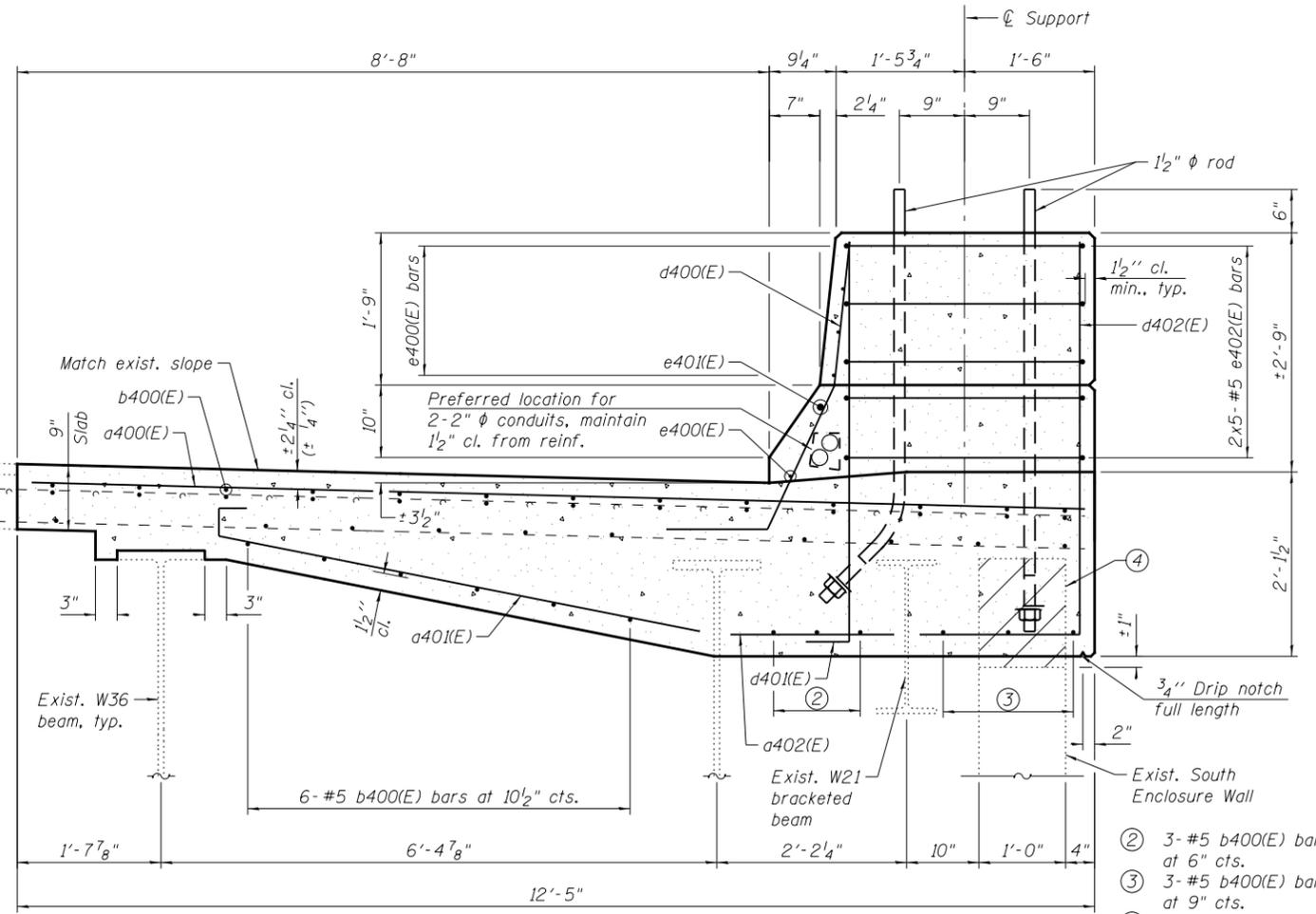


**SUPERSTRUCTURE  
BILL OF MATERIAL**

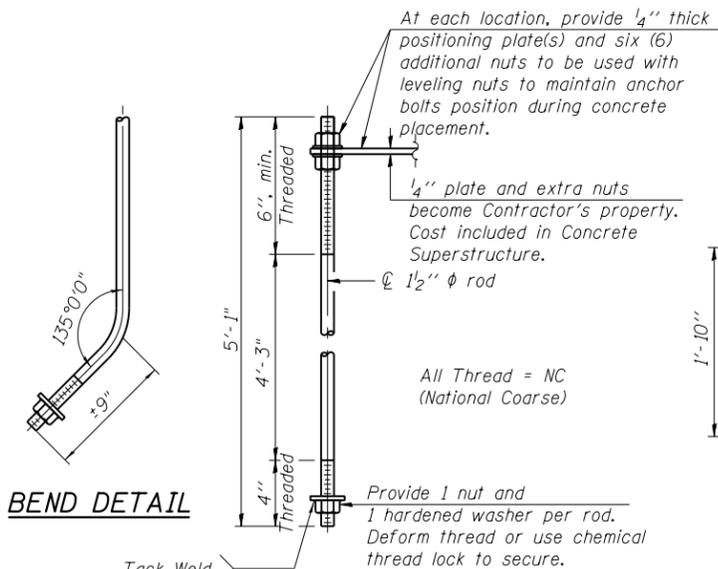
Bar	No.	Size	Length	Shape
a400(E)	31	#7	12'-1"	—
a401(E)	15	#5	6'-10"	—
a402(E)	15	#5	1'-10"	—
b400(E)	25	#5	13'-8"	—
d400(E)	16	#5	4'-8"	J
d401(E)	15	#6	5'-1"	J
d402(E)	15	#6	6'-4"	J
e400(E)	5	#5	13'-8"	—
e401(E)	1	#8	13'-8"	—
e402(E)	10	#6	19'-6"	—
Reinforcement Bars, Epoxy Coated			Pound	2,000
Concrete Superstructure			Cu. Yds.	15.0
Protective Coat			Sq. Yd.	23
Bridge Deck Grooving			Sq. Yd.	12



**PARAPET JOINT DETAILS**

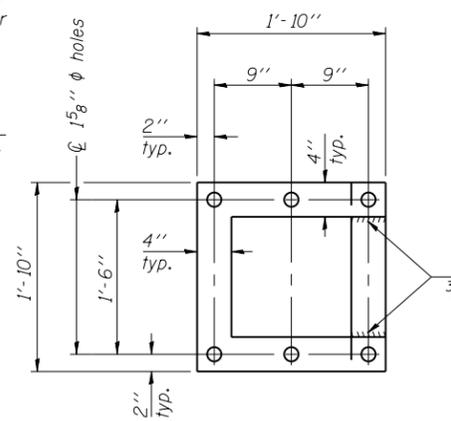


**SECTION A-A**



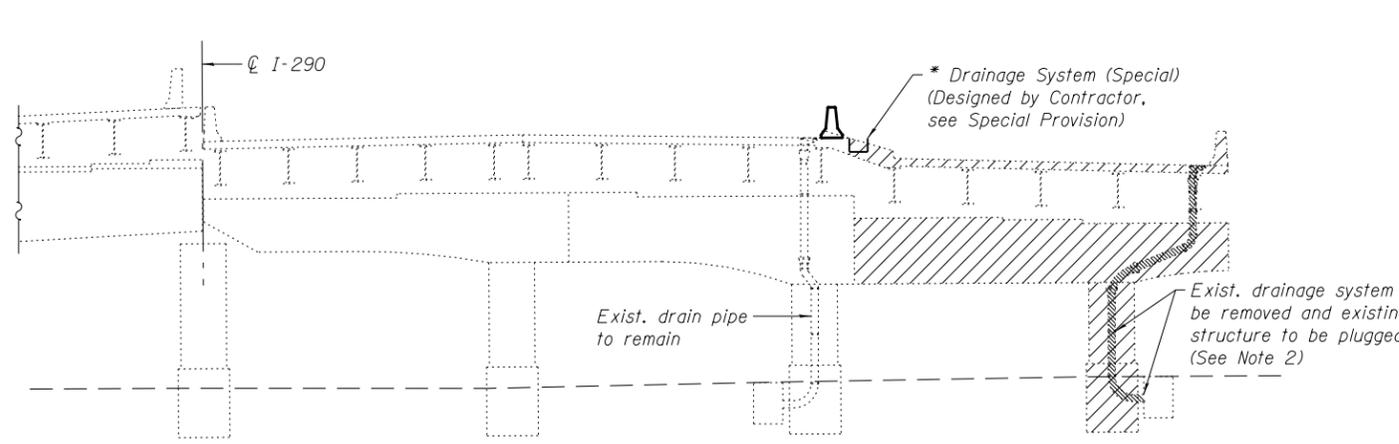
**ANCHOR ROD DETAIL**

(6 Straight Rods Req'd & 6 Bent Rods Req'd)  
Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.  
Cost included with Concrete Superstructure.

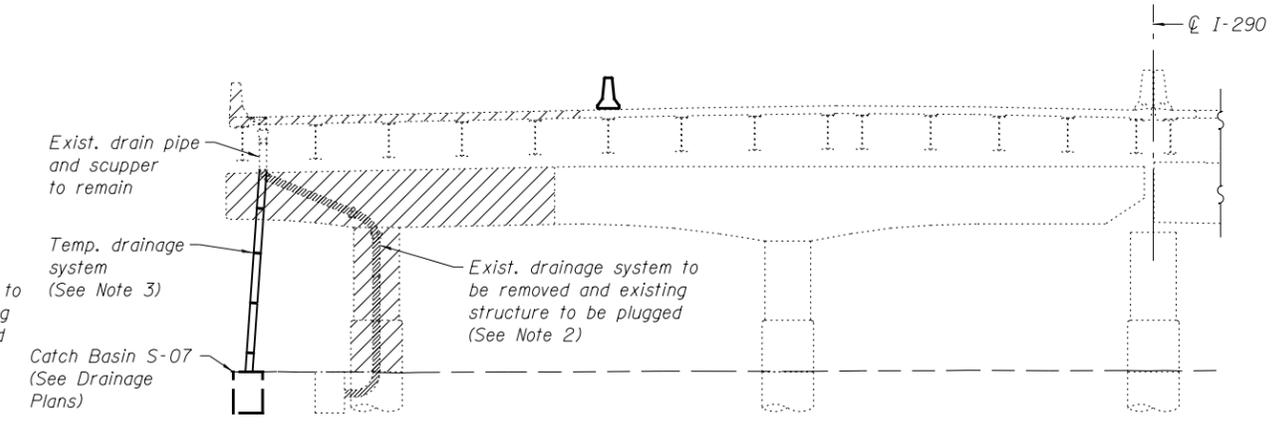


**POSITIONING PLATE(S)**

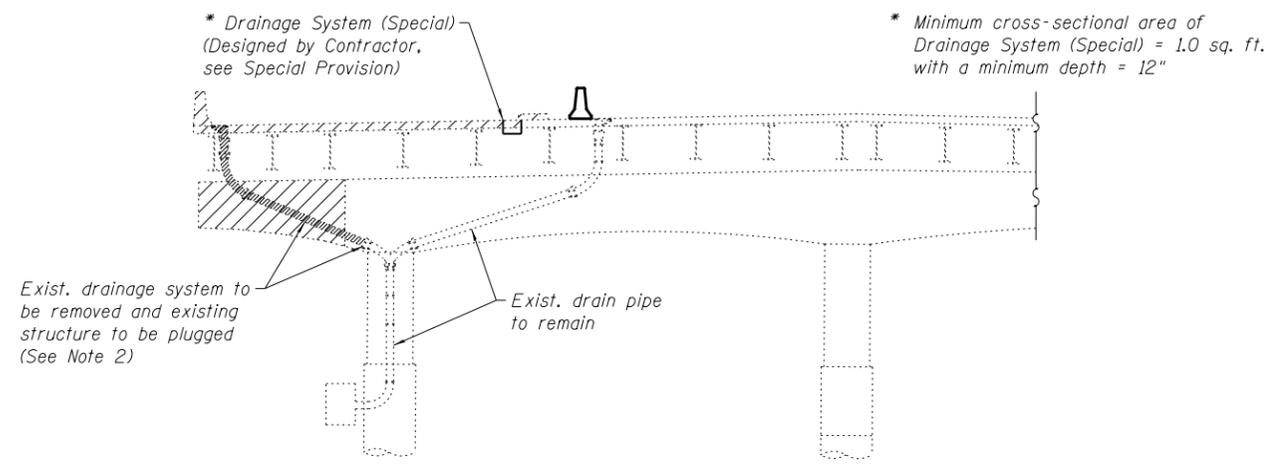
Notes:  
1. For sign structure, see Civil Plans.  
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Removal of Existing Concrete Deck. Any existing reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in the cost of Removal of Existing Concrete Deck.



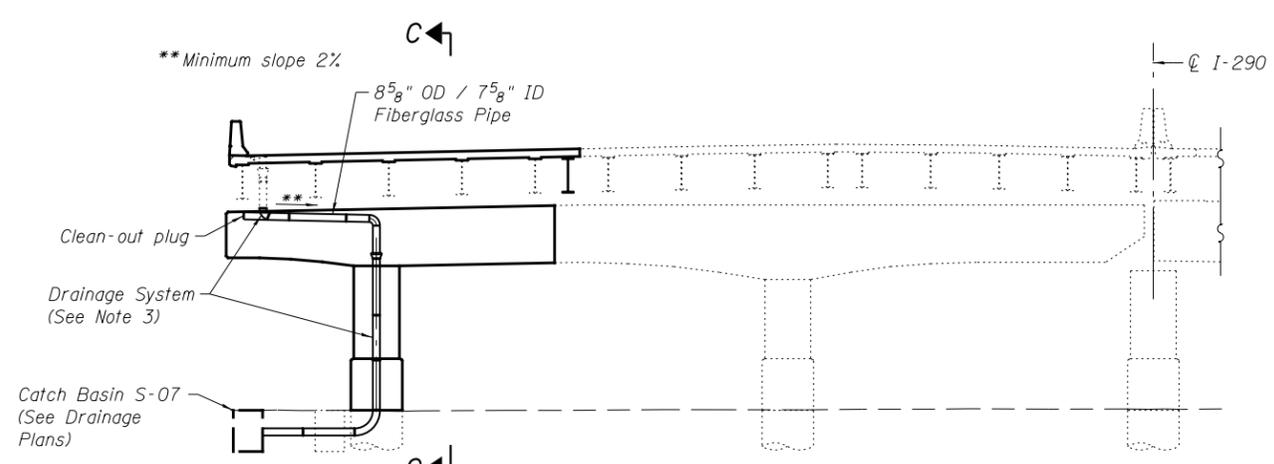
**ELEVATION - PIER C1 & C3**  
 (Pier C1 shown Looking East,  
 Pier C3 similar but opposite hand Looking West)



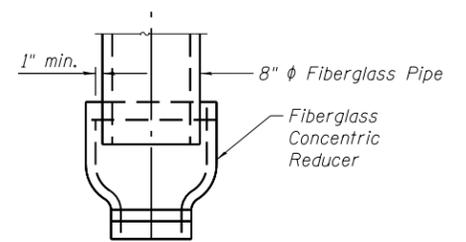
**ELEVATION - PIER C4**  
 (Looking West, showing exist. drainage  
 system removal and temp. drainage system)



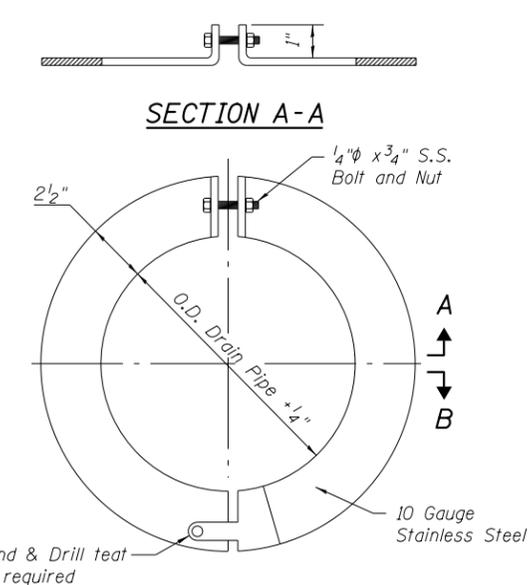
**ELEVATION - PIER C2**  
 (Looking West)



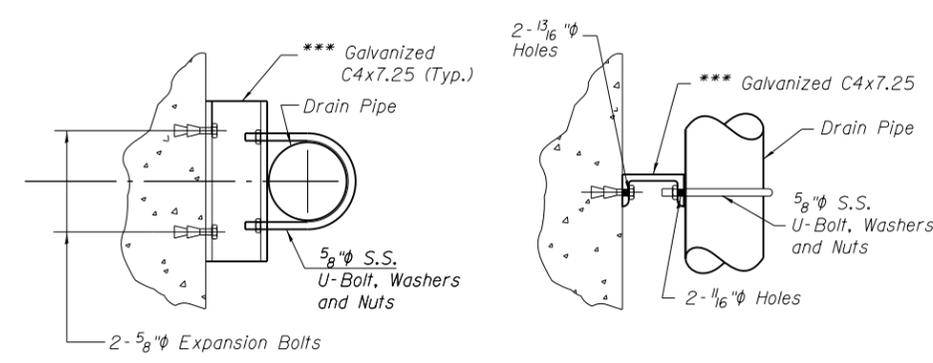
**ELEVATION - PIER C4**  
 (Looking West, showing proposed  
 drainage system)



**REDUCER DETAIL**



**SECTION B-B**  
 DETAIL OF EXPANSION COLLAR

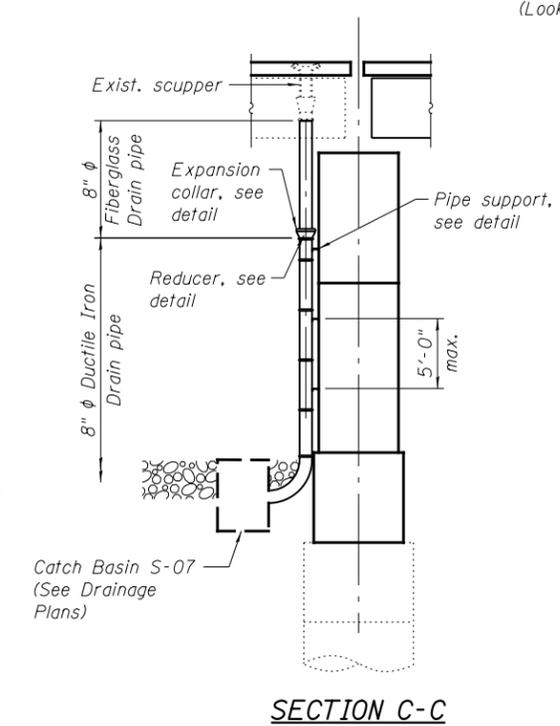


**PLAN**

**ELEVATION**

**PIPE SUPPORT DETAIL**

\*\*\* Provide curved C6x8.2 to fit Round Pier Columns where needed



**SECTION C-C**

Notes:

1. S.S. denotes Stainless Steel.
2. The cost of existing bridge drainage system removal and plugging of existing structure shall be included in the cost of Removal of Existing Concrete Deck.
3. During partial removal of Pier C4, the existing bridge drainage system shall be removed from the top elbow down and a temporary bridge drainage system shall be installed to permit flow from the existing scupper to Catch Basin S-07. The temporary bridge drainage system will not have any support on the column of Pier C4. Contractor shall provide means of support for temporary bridge drainage system. After construction of Pier C4, temporary drainage system shall be removed and Drainage System shall be installed and routed along the pier cap and column and underground to Catch Basin S-07. Cost of installation and removal of temporary bridge drainage system and supports for the system shall be included in the cost of Drainage System.

**BILL OF MATERIAL**

Item	Unit	Quantity
Drainage System	L. Sum	0.5
Drainage System (Special)	L. Sum	1

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**PARSONS BRINCKERHOFF**

USER NAME =	lopezgonzalez	DESIGNED -	PJL	REVISED -	
		CHECKED -	JIG	REVISED -	
PLOT SCALE =	N.T.S.	DRAWN -	PJL	REVISED -	
PLOT DATE =	5/6/2016	CHECKED -	JIG	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SYSTEM  
 STRUCTURE NO. 016-0461**

SHEET NO. S2-16 OF S2-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	208
CONTRACT NO. 62B76			ILLINOIS FED. AID PROJECT	

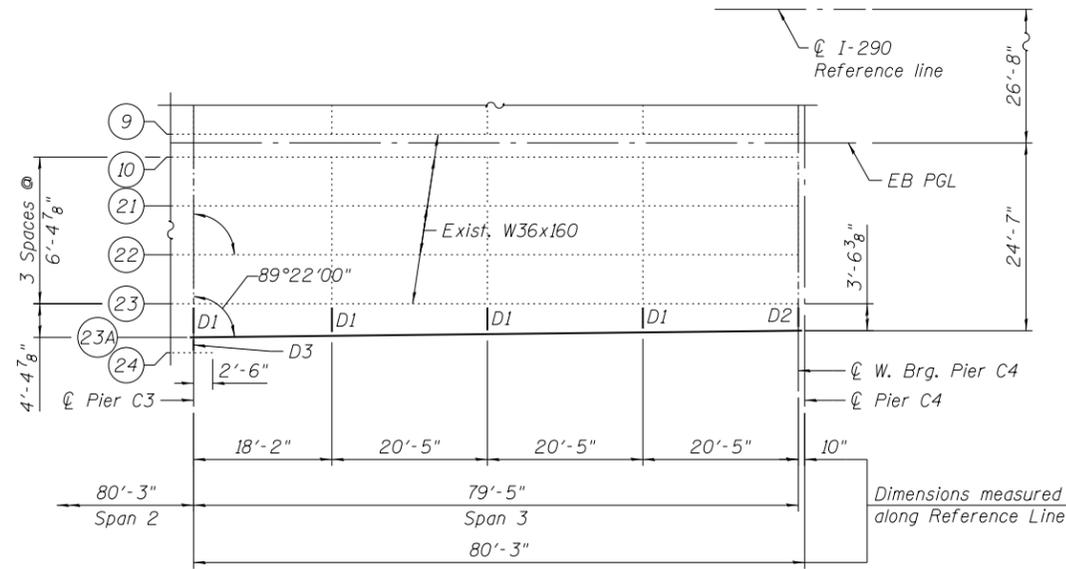
**TOP OF BEAM ELEVATIONS**  
(For fabrication only)

⊕ Brg. Pier C3	610.33
⊕ W. Brg. Pier C4	611.16

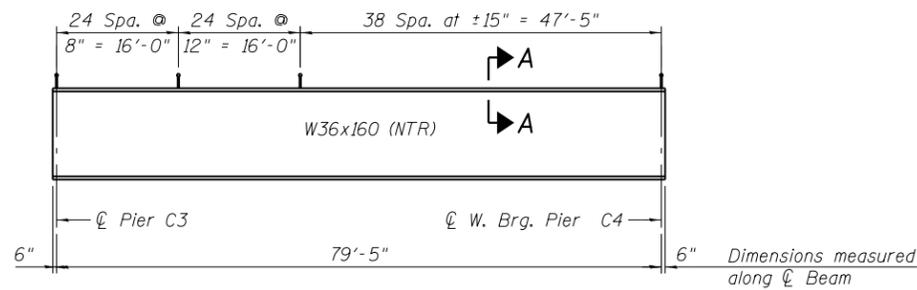
EXTERIOR BEAM MOMENT TABLE		0.5 Span 3
$I_s$	(in <sup>4</sup> )	9,760
$I_c(n)$	(in <sup>4</sup> )	21,456
$I_c(3n)$	(in <sup>4</sup> )	15,379
$I_c(cr)$	(in <sup>4</sup> )	
$S_s$	(in <sup>3</sup> )	542
$S_c(n)$	(in <sup>3</sup> )	748
$S_c(3n)$	(in <sup>3</sup> )	664
$S_c(cr)$	(in <sup>3</sup> )	
DC1	(k/')	0.727
M <sub>DC1</sub>	(k)	498
DC2	(k/')	0.088
M <sub>DC2</sub>	(k)	69
DW	(k/')	0.130
M <sub>DW</sub>	(k)	102
$M_{\psi} + 1M$	(k)	1,242
$M_u$ (Strength I)	(k)	3,097
$\phi_r M_n$	(k)	3,471
$f_s$ DC1	(ksi)	11.0
$f_s$ DC2	(ksi)	1.2
$f_s$ DW	(ksi)	2.6
$f_s (\psi + 1M)$	(ksi)	19.9
$f_s$ (Service II)	(ksi)	40.7
$0.95R_h F_y f$	(ksi)	47.5
$f_s$ (Total)(Strength I)	(ksi)	
$\phi_r F_n$	(ksi)	
$V_r$	(k)	21.7

EXTERIOR BEAM REACTION TABLE			
	Pier C3	Pier C4	
$R_{DC1}$	(k)	27.2	23.9
$R_{DC2}$	(k)	3.5	3.5
$R_{DW}$	(k)	5.2	5.2
$R_{\psi} + 1M$	(k)	90.1	53.9
$R_{Total}$	(k)	126.0	86.5

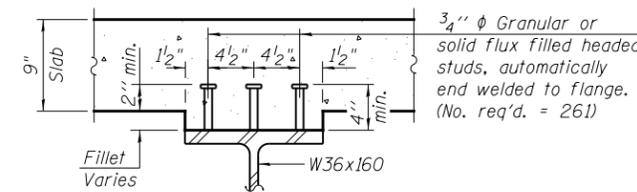
- $I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).
- $I_c(cr), S_c(cr)$ : Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing  $f_s$  (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).
- DC1: Un-factored non-composite dead load (kips/ft.).  
M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).  
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 $M_{\psi} + 1M$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).  
 $M_u$  (Strength I): Factored design moment (kip-ft.).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\psi} + 1M$   
 $\phi_r M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).  
 $f_s$  DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
 $M_{DC1} / S_{nc}$   
 $f_s$  DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
 $M_{DC2} / S_c(3n)$  or  $M_{DC2} / S_c(cr)$  as applicable.  
 $f_s$  DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
 $M_{DW} / S_c(3n)$  or  $M_{DW} / S_c(cr)$  as applicable.  
 $f_s (\psi + 1M)$ : Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
 $M_{\psi} + 1M / S_c(n)$  or  $M_{\psi} + 1M / cS (cr)$  as applicable.  
 $f_s$  (Service II): Sum of stresses as computed below (ksi).  
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (\psi + 1M)$   
 $0.95R_h F_y f$ : Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).  
 $f_s$  (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).  
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (\psi + 1M)$   
 $\phi_r F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).  
 $V_r$ : Maximum factored shear range in span computed according to Article 6.10.10.



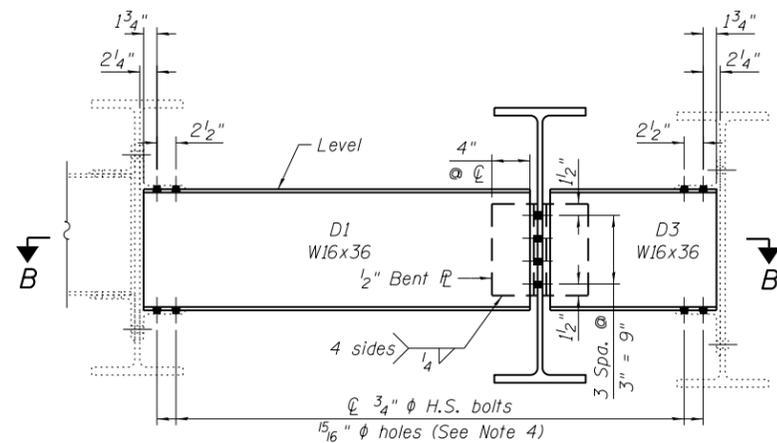
**PARTIAL FRAMING PLAN**



**BEAM ELEVATION**

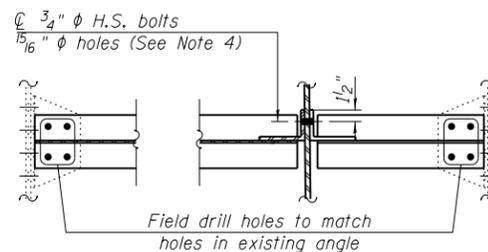


**SECTION A-A**

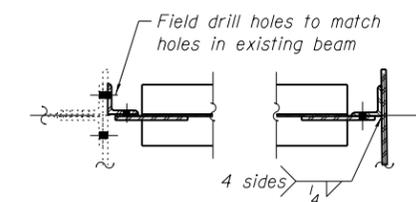


**DIAPHRAGM D1 & D3**

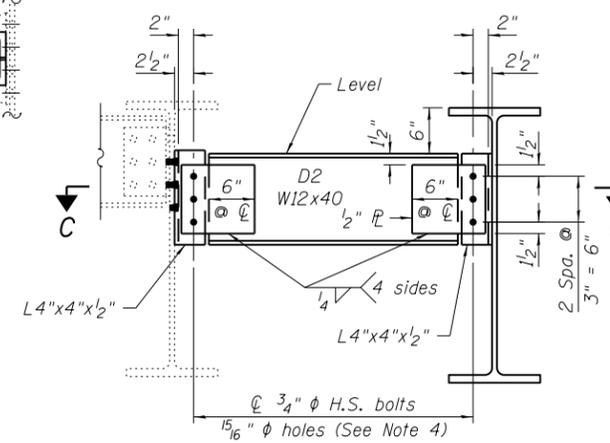
(4 D1 Required: 1 at Pier C3 and 3 within Span 3; 1 D3 Required at Pier C3)



**SECTION B-B**



**SECTION C-C**



**END DIAPHRAGM D2**

(1 Required at Pier C4)

**Notes:**

- All diaphragms, angles, fill plates and connecting plates shall be AASHTO M270, Grade 36.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
- Two hardened washers required for each set of oversized holes.

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**PARSONS BRINCKERHOFF**

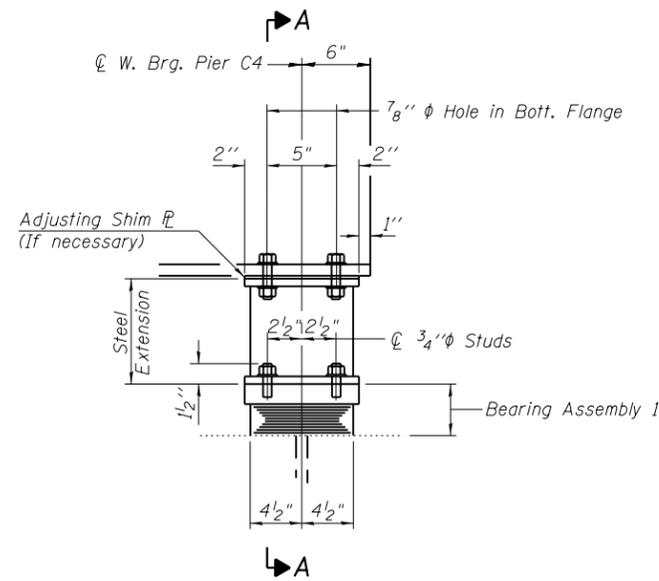
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PLOT SCALE = N.T.S.	CHECKED - JIG	REVISED -
PLOT DATE = 5/6/2016	DRAWN - IJL	REVISED -
	CHECKED - JIG	REVISED -

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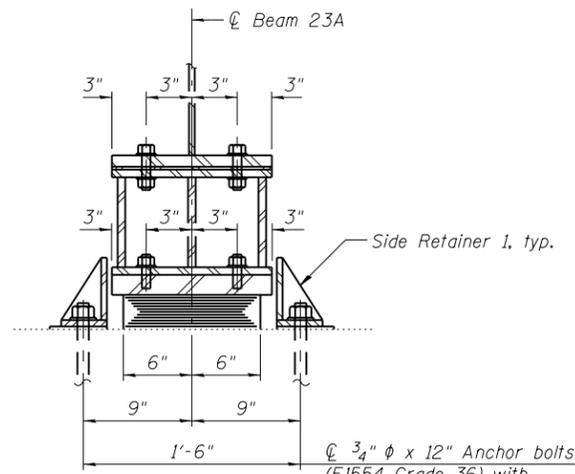
**FRAMING PLAN  
STRUCTURE NO. 016-0461**

SHEET NO. S2-17 OF S2-22 SHEETS

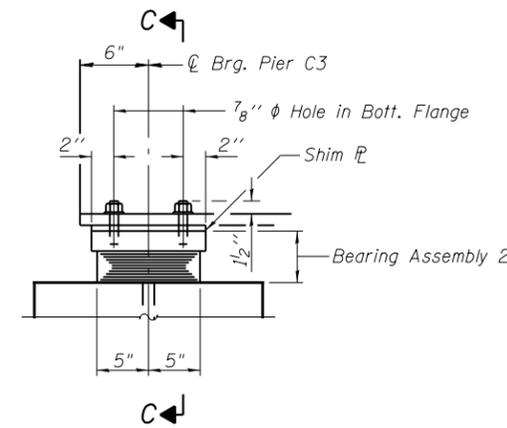
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	209
CONTRACT NO. 62B76			ILLINOIS FED. AID PROJECT	



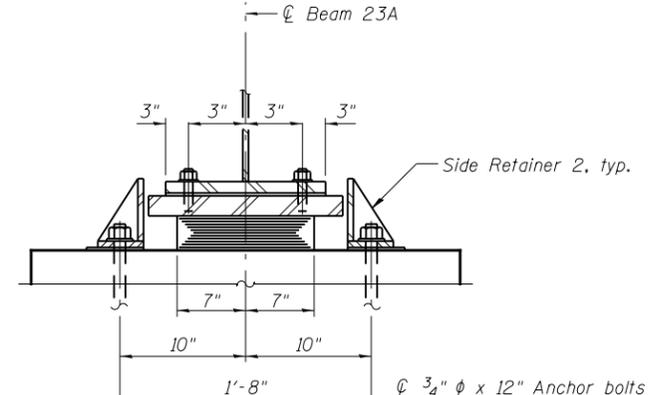
ELEVATION AT PIER C4



SECTION A-A



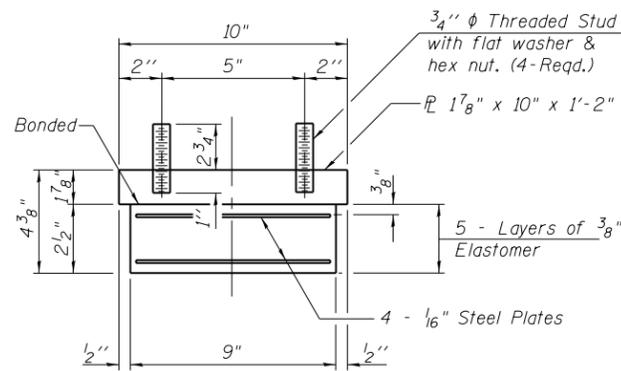
ELEVATION AT PIER C3



SECTION C-C

**TYPE I ELASTOMERIC EXP. BRG.**

(1 Required)



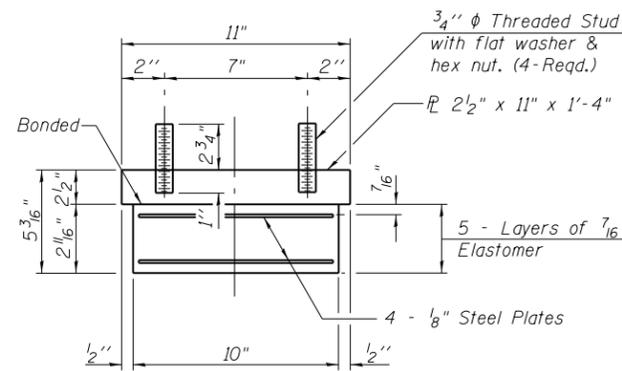
BEARING ASSEMBLY 1

Note:  
Shim plates shall not be placed under Bearing Assembly.

Notes:  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Side retainers, new steel extensions and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.  
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.  
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

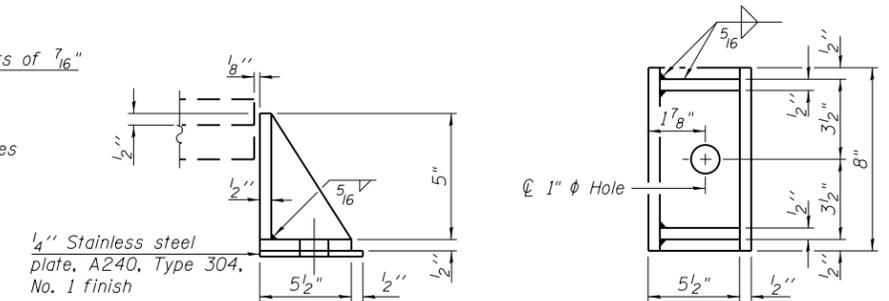
**TYPE I ELASTOMERIC EXP. BRG. AT PIER C3**

(1 Required)



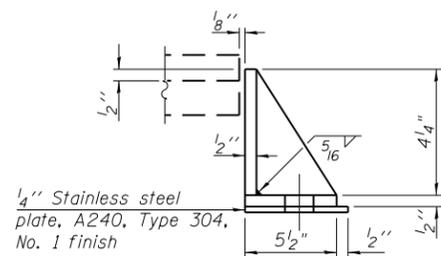
BEARING ASSEMBLY 2

Note:  
Shim plates shall not be placed under Bearing Assembly.



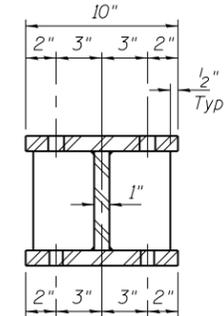
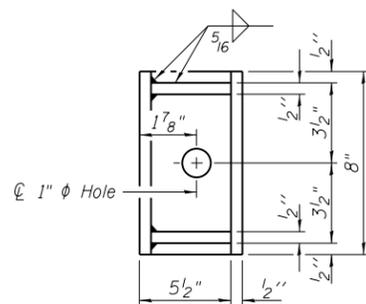
SIDE RETAINER 2

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

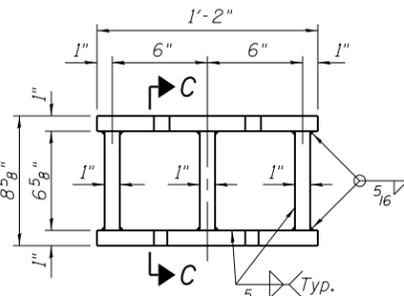


SIDE RETAINER 1

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

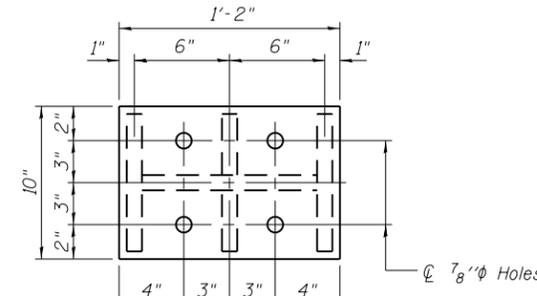


SECTION C-C



STEEL EXTENSION DETAIL

(1 Required)



PLAN TOP AND BOTTOM PLATE

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	2
Anchor Bolts, 3/4"	Each	4

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**PARSONS BRINCKERHOFF**

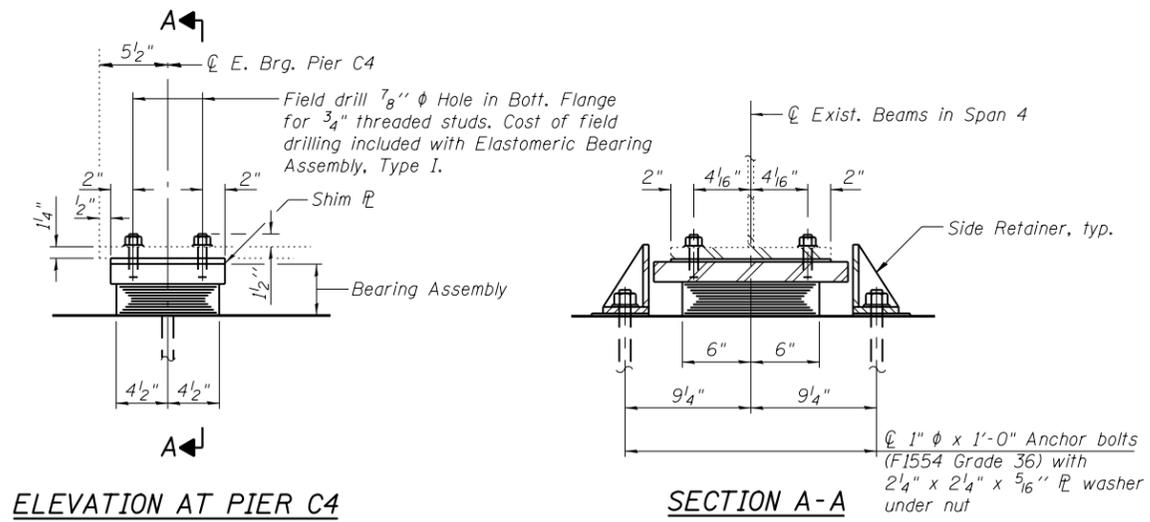
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PLOT DATE = 5/6/2016	DRAWN - IJL	REVISED -
	CHECKED - JIG	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS I  
STRUCTURE NO. 016-0461**

SHEET NO. S2-18 OF S2-22 SHEETS

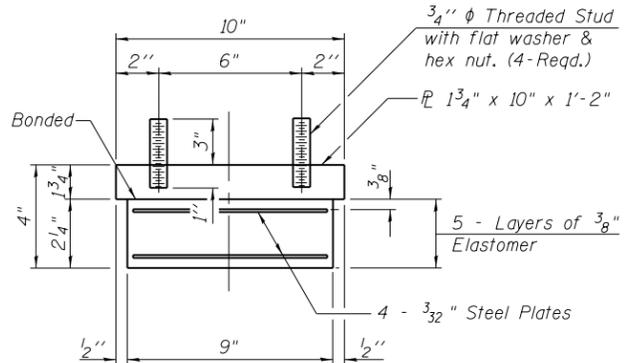
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	210
CONTRACT NO. 62B76			ILLINOIS FED. AID PROJECT	



**ELEVATION AT PIER C4**

**SECTION A-A**

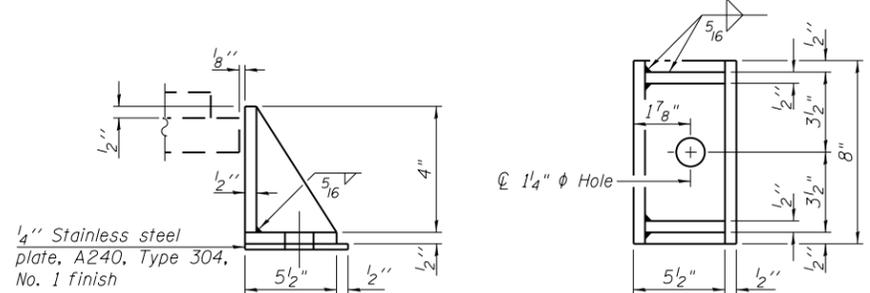
**TYPE I ELASTOMERIC EXP. BRG.**  
(5 Required)



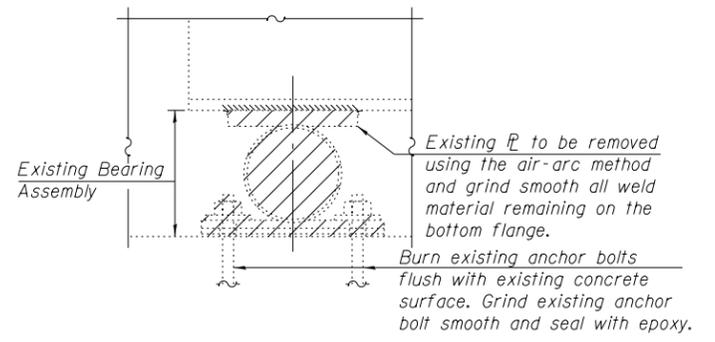
**BEARING ASSEMBLY**

Note:  
Shim plates shall not be placed under Bearing Assembly.

Notes:  
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Elastomeric Bearing Assembly, Type I.  
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.  
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.  
Two 5/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



**SIDE RETAINER**  
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



**EXISTING BEARING REMOVAL DETAIL**  
**PIER C4**

Cost included with Jack and Remove Existing Bearings.  
(5 Required)

**JACK AND REMOVE EXISTING BEARINGS PROCEDURE**

- The Contractor shall submit for approval by the Engineer, plans for jacking existing bearings and installing new bearings prior to commencing any related work.
- The dead load reaction per beam is 29 kips. Minimum jacking capacity 44 kips per beam.
- Jacking and removing existing bearings shall be done after the existing deck is removed and prior to placing the new deck.
- The new pier cap shall be poured and cured prior to the lowering and removal of the jacks.

**BILL OF MATERIAL**

Item	Unit	Total
Jack and Remove Existing Bearings	Each	5
Elastomeric Bearing Assembly Type I	Each	5
Anchor Bolts, 1"	Each	10

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**PARSONS BRINCKERHOFF**

USER NAME = lopezgonzalez	DESIGNED - IJL	REVISED -
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PLOT DATE = 5/6/2016	DRAWN - IJL	REVISED -
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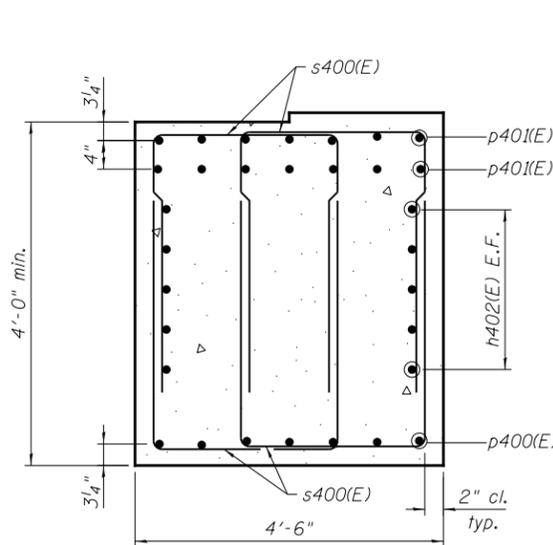
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS II**  
**STRUCTURE NO. 016-0461**

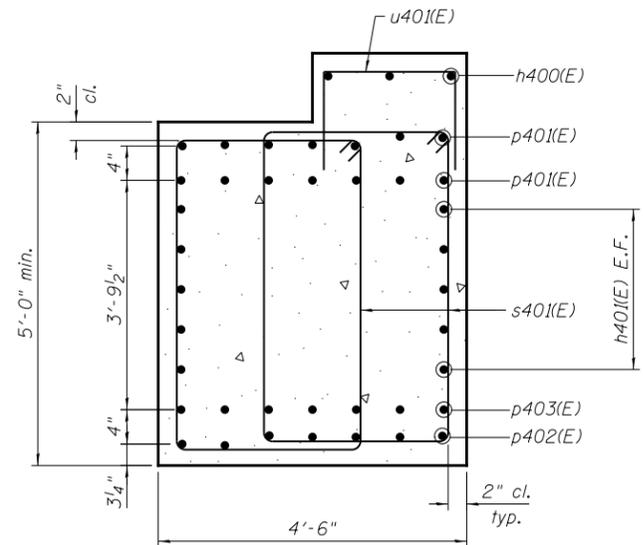
SHEET NO. S2-19 OF S2-22 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				

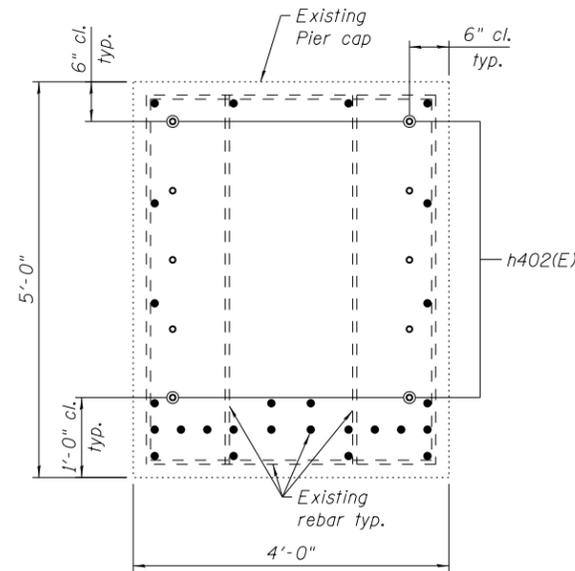




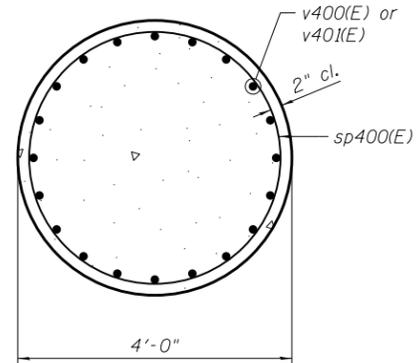
SECTION A-A



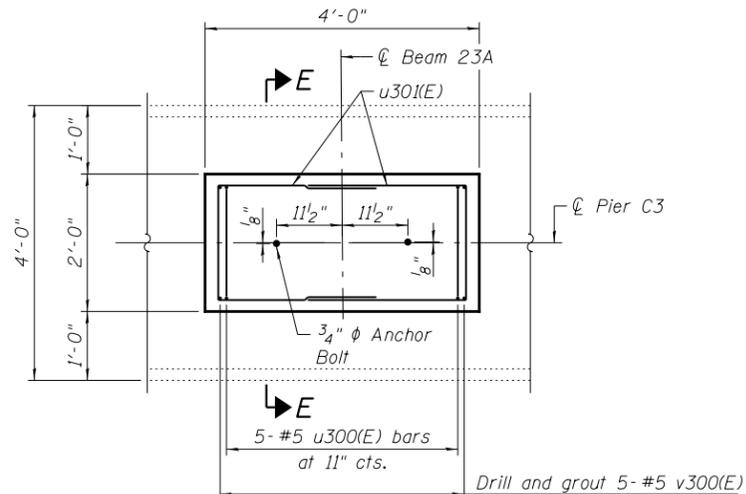
SECTION B-B



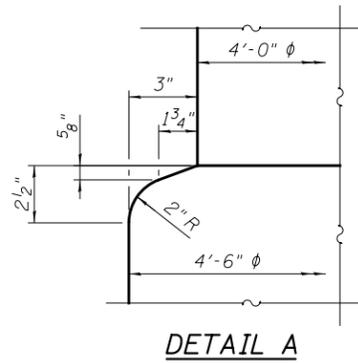
SECTION E-E



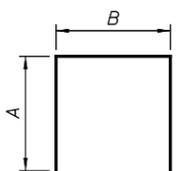
SECTION C-C



CONCRETE PEDESTAL DETAIL AT PIER C3

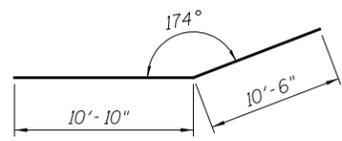


DETAIL A

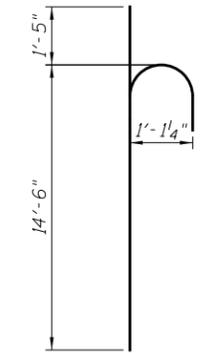


BARS  
A & B DIMENSIONS

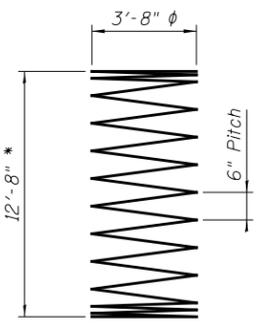
Bar	A	B
s400(E)	3'-5"	2'-9"
u300(E)	1'-3"	1'-8"
u301(E)	2'-10"	1'-8"
u400(E)	3'-6"	4'-2"
u401(E)	1'-8"	4'-2"



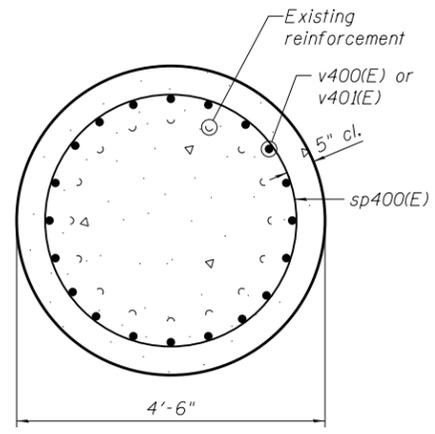
BAR p400(E)



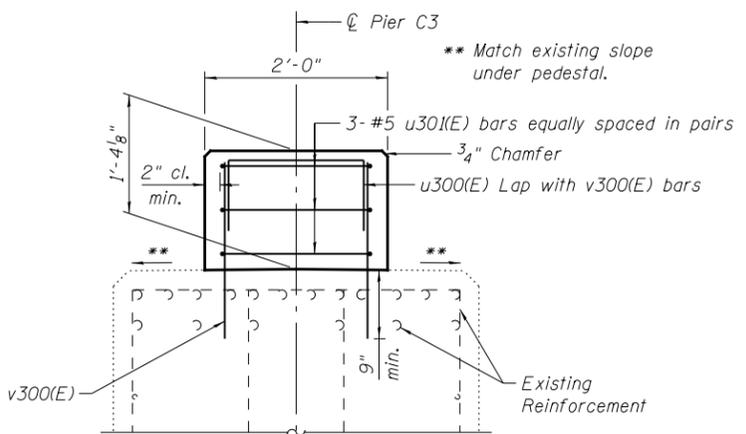
BAR v401(E)



BAR sp400(E)



SECTION D-D



SECTION E-E

(Anchor bolts not shown for clarity)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h400(E)	3	#5	12'-5"	—
h401(E)	10	#5	24'-5"	—
h402(E)	10	#7	3'-4"	—
p400(E)	7	#10	21'-4"	—
p401(E)	28	#10	28'-5"	—
p402(E)	14	#10	17'-11"	—
p403(E)	14	#10	22'-5"	—
s400(E)	52	#5	9'-7"	□
s401(E)	42	#5	15'-9"	□
sp400(E)	1	#5	12'-8"	WWW
u300(E)	5	#5	4'-2"	□
u301(E)	6	#5	7'-4"	□
u400(E)	8	#5	11'-2"	□
u401(E)	13	#5	10'-0"	□
v300(E)	10	#5	2'-7"	—
v400(E)	20	#10	13'-3"	—
v401(E)	20	#10	15'-11"	—
Concrete Structures			Cu. Yd.	58.4
Reinforcement Bars, Epoxy Coated			Pound	11,290
Concrete Sealer			Sq. Ft.	744

\* Length is height of spiral

- Note:
1. Reinforcement bars designated (E) shall be epoxy coated.
  2. Space reinforcement in column cap to miss anchor bolts.
  3. Bars equally spaced, unless otherwise noted.
  4. Apply concrete sealer to all exposed concrete surfaces of the pier.
  5. All edges shall have standard 3/4" chamfer, unless otherwise noted.
  6. Spirals are measured vertically.
  7. Drilling and grouting of bars into existing pier cap and column shall be done in accordance with Article 584 of the Standard Specifications. Drilled and grouted bars shall maintain 5" clearance from an existing face of concrete and shall be installed such that they miss existing pier cap reinforcement. Cost included with Reinforcement Bars, Epoxy Coated.

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**PARSONS BRINCKERHOFF**

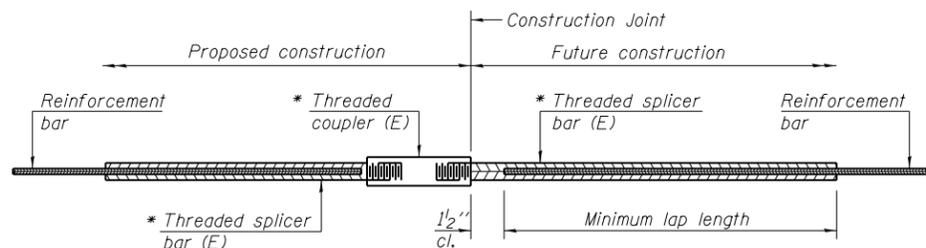
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PLOT DATE = 5/6/2016	DRAWN - IJL	REVISED -
	CHECKED - JIG	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER C4 DETAILS  
STRUCTURE NO. 016-0461

SHEET NO. S2-21 OF S2-22 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	213
CONTRACT NO. 62B76			ILLINOIS FED. AID PROJECT	

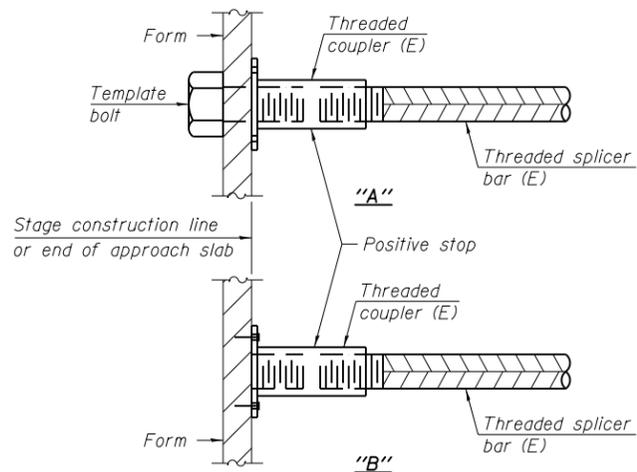


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1/2" + thread length

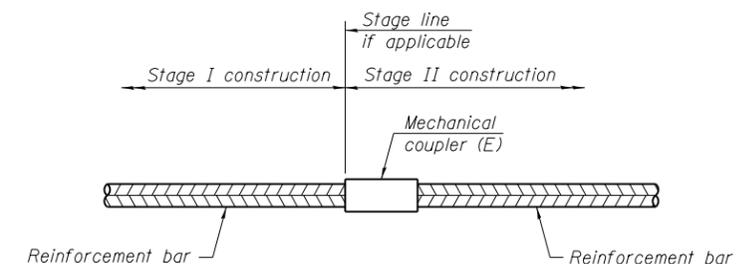
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Pier C4 (Top bar)	#5	3	3'-8"
Pier C4	#5	10	3'-3"
Pier C4 (Top bar)	#10	14	12'-4"
Pier C4	#10	14	10'-10"



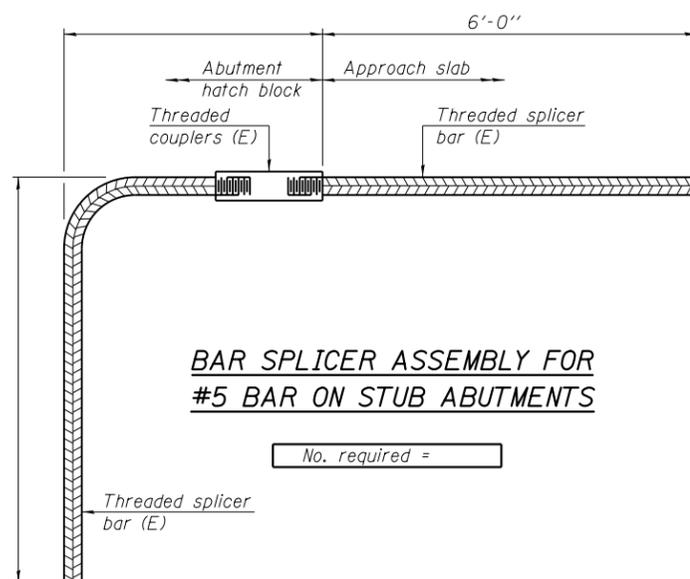
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

0160461-62B76-S022-BAR.dgn

**PARSONS BRINCKERHOFF**

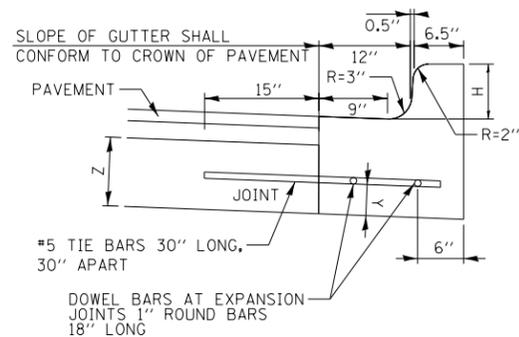
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PLOT SCALE = N.T.S.	DRAWN - DCP	REVISED -
PLOT DATE = 5/6/2016	CHECKED - JIG	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

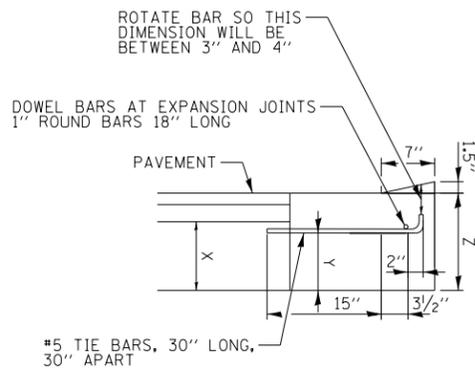
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 016-0461**

SHEET NO. S2-22 OF S2-22 SHEETS

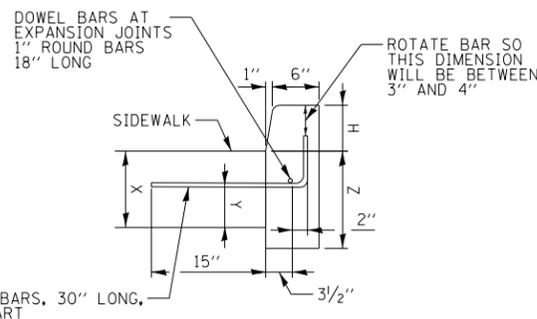
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	214
CONTRACT NO. 62B76			ILLINOIS FED. AID PROJECT	



**COMBINATION CURB AND GUTTER  
TYPE B V.12 (CDOT)**



**DEPRESSED CURB**



**BARRIER CURB**

**CONCRETE CURB, TYPE B (SPECIAL) (CDOT)**

**DETAILS OF CONCRETE CURB, TYPE B (SPECIAL) (CDOT) AND  
COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT)**

**DEPRESSED CURB & GUTTER**

DEPRESSED CURB AND GUTTER AND TRANSITIONS BETWEEN BARRIER CURB WILL BE PAID FOR UNDER THE ADJACENT CURB ITEM. DEPRESSED CURB AND MOUNTABLE GUTTER MUST MEET CDOT ADA STANDARDS.

**JOINTS IN CURB, COMBINED CURB AND GUTTER**

TRANSVERSE JOINTS OF A TYPE SIMILAR TO THAT USED IN THE ADJACENT PAVEMENT SHALL BE INSTALLED IN THE CURB, GUTTER AND COMBINED CURB & GUTTER IN PROLONGATION WITH THE JOINTS IN THE PAVEMENT. THE DETAILS OF THE TRANSVERSE JOINTS IN THE CURB, GUTTER AND COMBINED CURB & GUTTER SHALL BE APPROVED BY THE ENGINEER. CURB, GUTTER OR COMBINED CURB AND GUTTER IS CONSTRUCTED ADJACENT TO A FLEXIBLE BASE PAVEMENT, 1" THICK EXPANSION JOINTS COMPOSED OF BITUMINOUS PREFORMED JOINT FILLER SHALL BE INSTALLED IN THE CURB AND/OR GUTTER AT POINTS OF CURVATURE AND AT CONSTRUCTION JOINTS. CONTRACTION JOINTS SHALL ALSO BE PLACED BETWEEN THESE EXPANSION JOINTS AT DISTANCES NOT EXCEEDING 20 FEET. ALL TIE BARS SHALL BE DEFORMED - ALL DOWEL BARS SHALL BE SMOOTH. ALL TIE BARS AND DOWEL BARS TO BE EPOXY COATED.

**JOINTS IN CURB, COMBINED CURB AND GUTTER**

THE COST OF ALL JOINTS, INCLUDING LABOR, FURNISH AND PLACING OF STEEL, JOINT FILLER, SEALANT, AND ALL OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURB, TYPE B (SPECIAL) (CDOT), AND COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT) ITEMS. SAWCUTTING AND FURNISHING AND INSTALLING CURB ANCHORS, DOWELS, AND TIE BARS SHALL ALSO BE INCIDENTAL TO THESE ITEMS.

**NOTE:**

- H = VARIABLE, MINIMUM 3" AND NOT TO EXCEED 9" (SEE PLANS)
- X = THICKNESS OF PAVEMENT
- Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE
- Z = 10" OR THICKNESS OF PAVEMENT - WHICHEVER IS GREATER

FILE PATH = p:\61749-PMINT\secomon\line\local\IACOM\DS02\_NA\Documents\01\_Americas\Transportation\62026-9238\_Circle\Phase\_1\000\_CAD\006\_Roadway\Sheets\62B76\_Contract\0162B76-SHT-DETAIL-01.dgn



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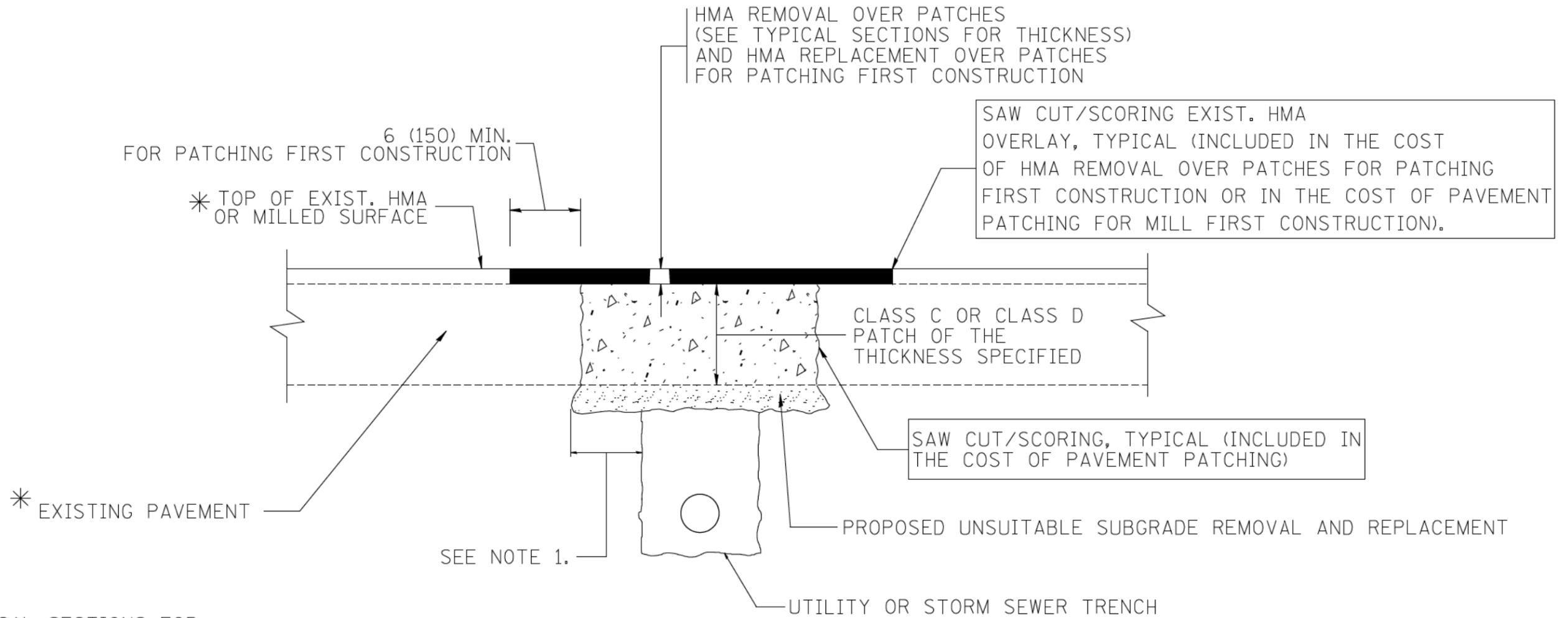
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS  
BARRIER WALL**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	215
CONTRACT NO. 62B76			ILLINOIS FED. AID PROJECT	





\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

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

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

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

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

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

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

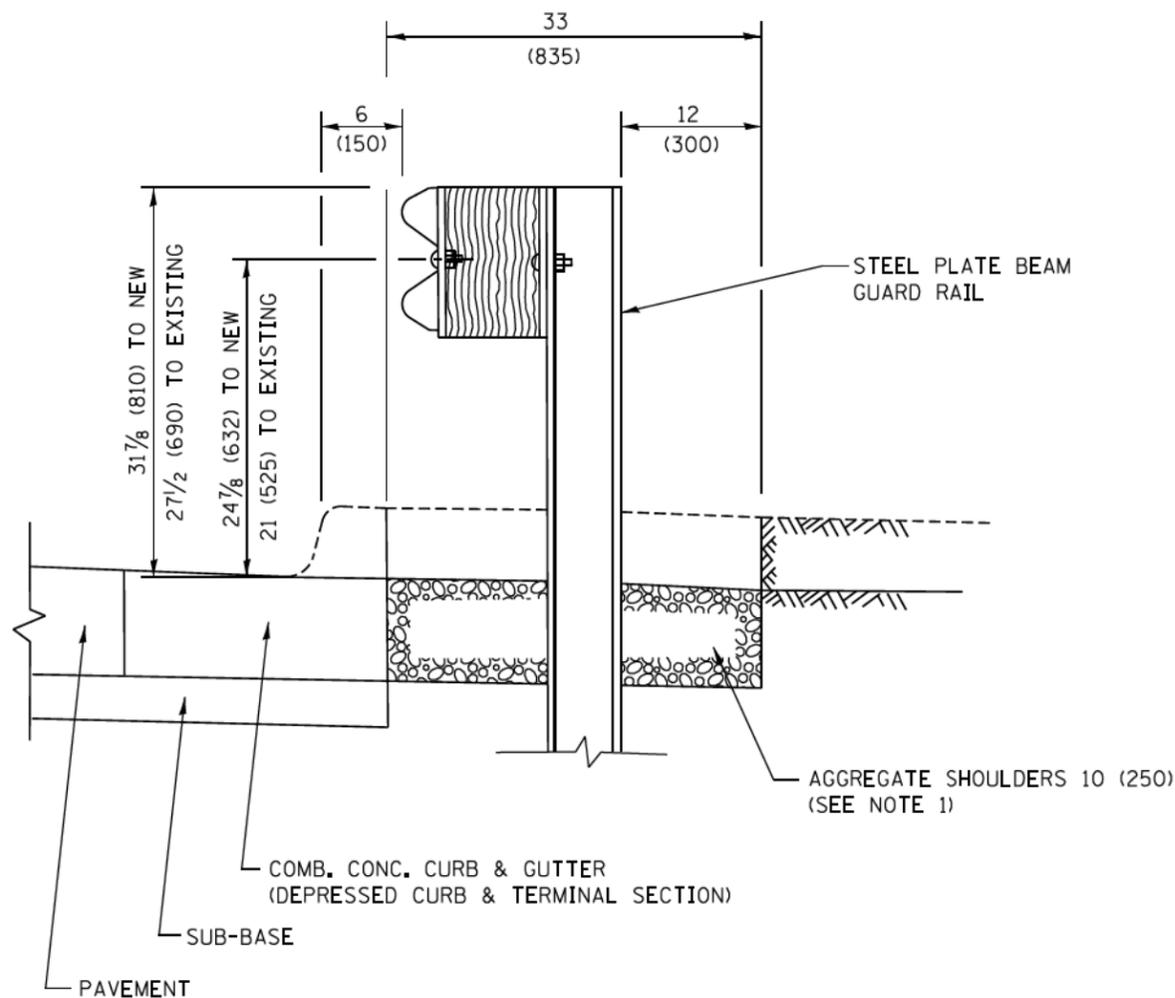
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		DRAWN -	REVISED - R. BORO 01-01-07
		PLOT SCALE = 50.000' / 1"	REVISED - R. BORO 09-04-07
		PLOT DATE = 10/27/2008	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

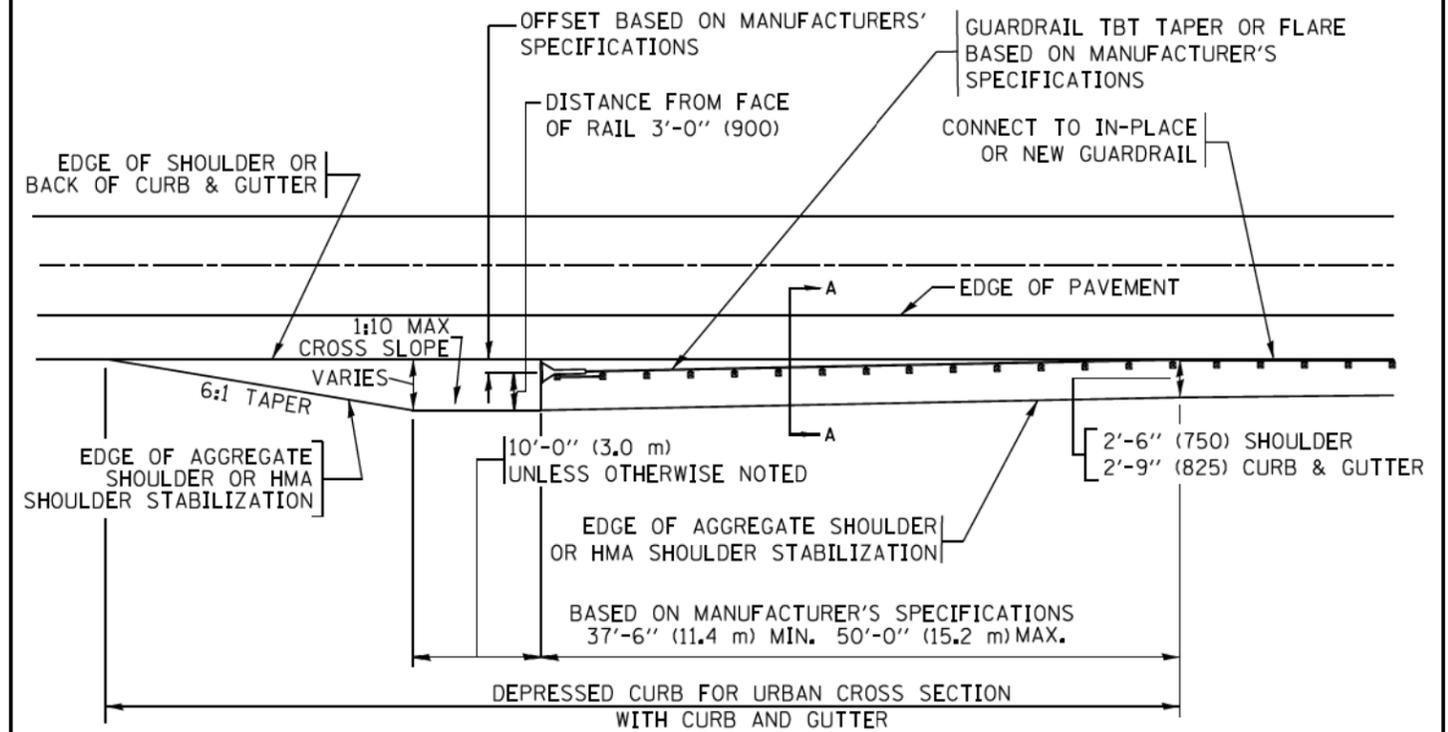
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BD400-04 (BD-22)		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

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

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



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

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

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

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

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

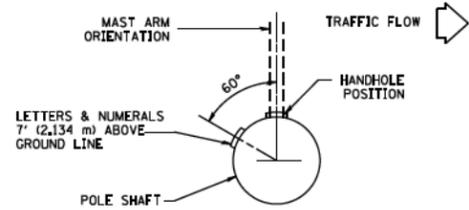
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

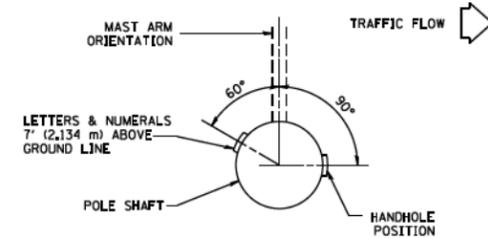
DETAILS FOR DEPRESSED CURB & GUTTER AND  
SHOULDER TREATMENT AT TBT TY.1 SPL.

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

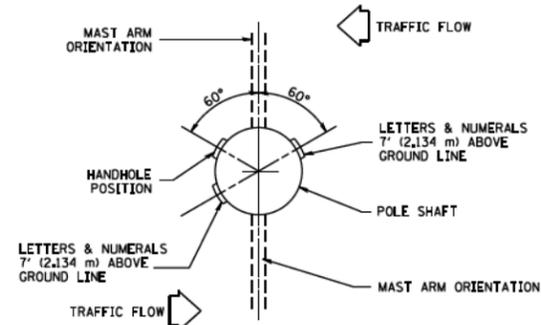
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BD600-10 (BD 34)		CONTRACT NO. 62B76		
ILLINOIS FED. AID PROJECT				



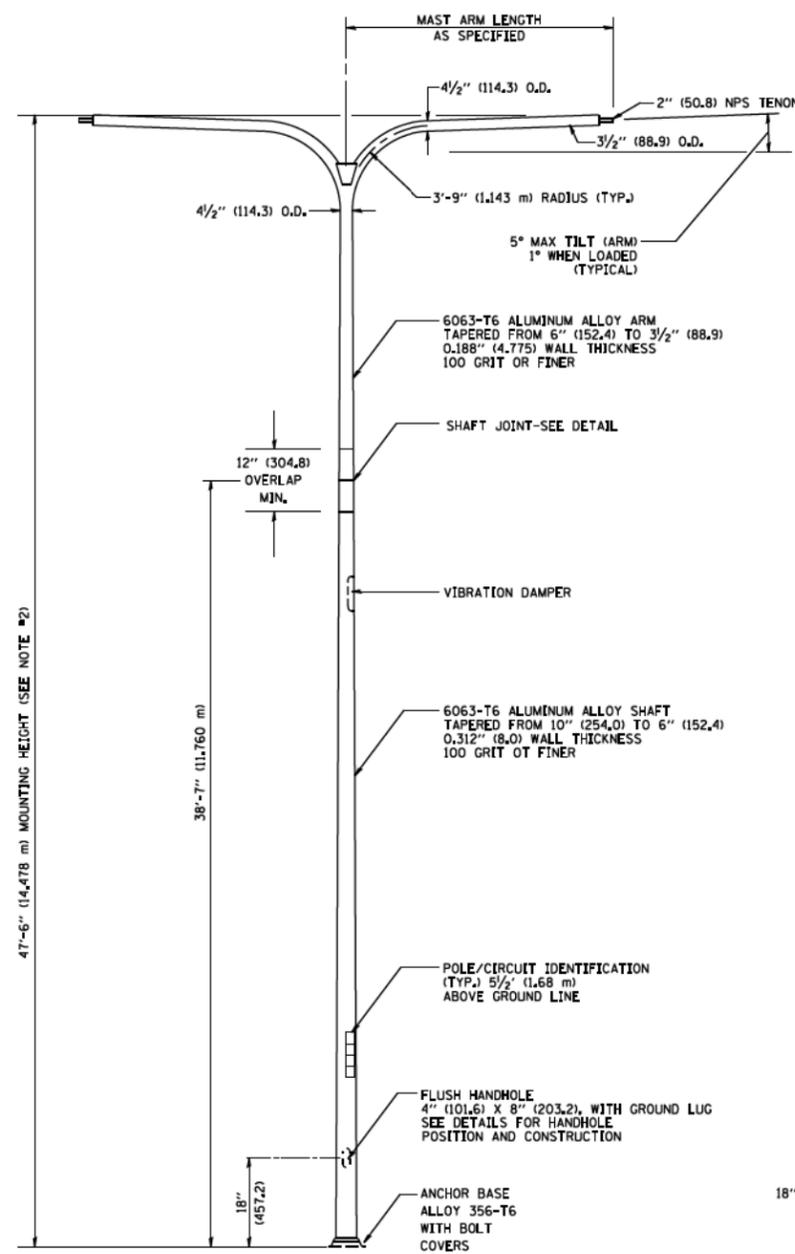
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



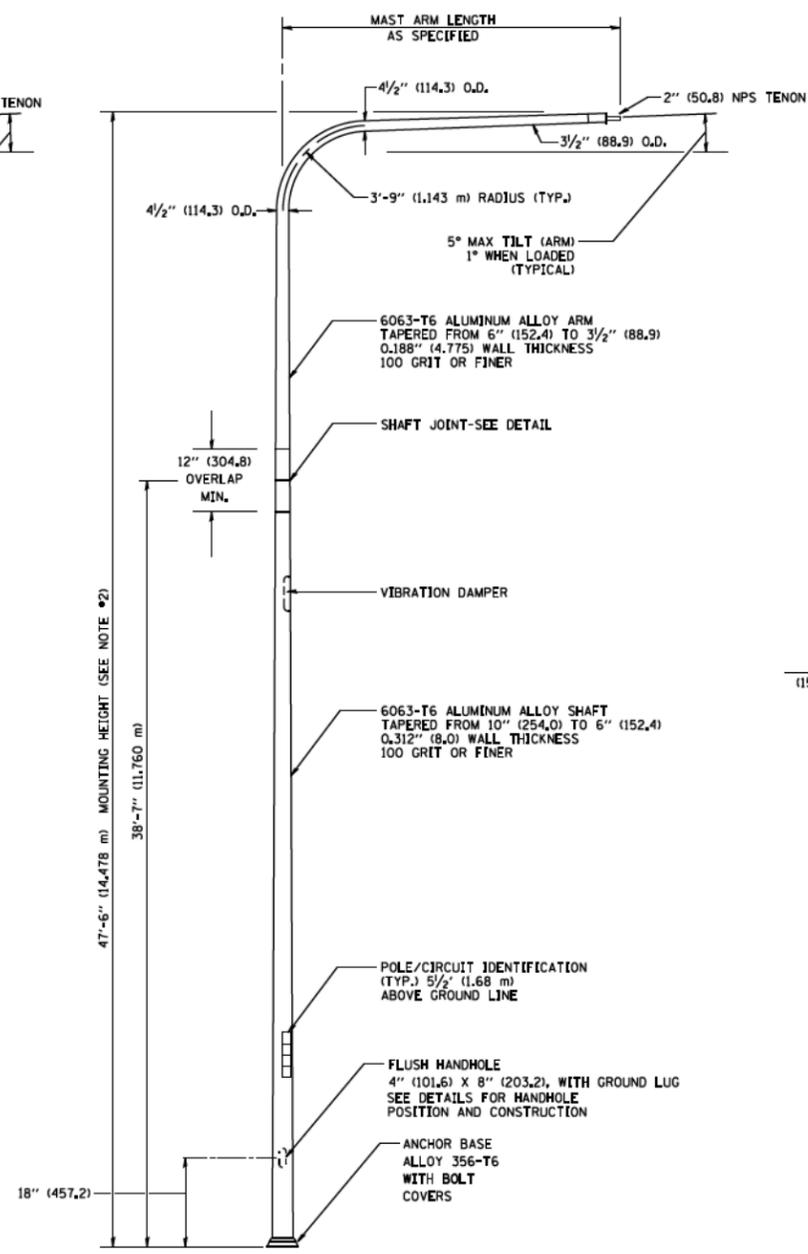
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

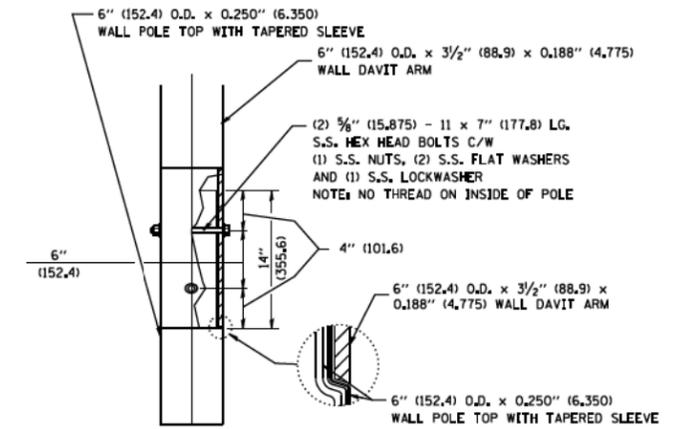


TWIN ARM POLE

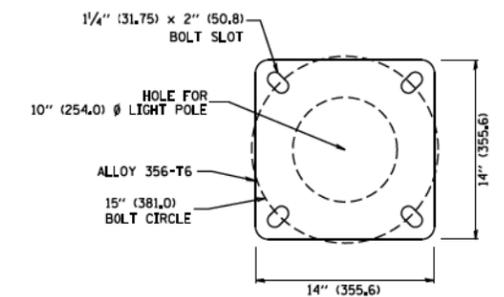


SINGLE ARM POLE

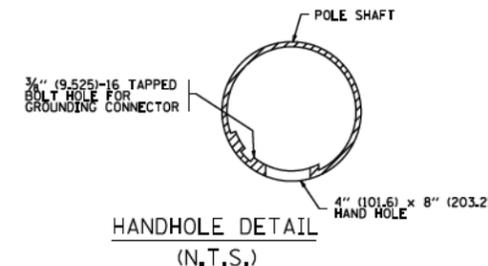
- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  - MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
  - TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
  - THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
  - THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP40L OR APPROVED EQUAL.
  - LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
  - LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
  - LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



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

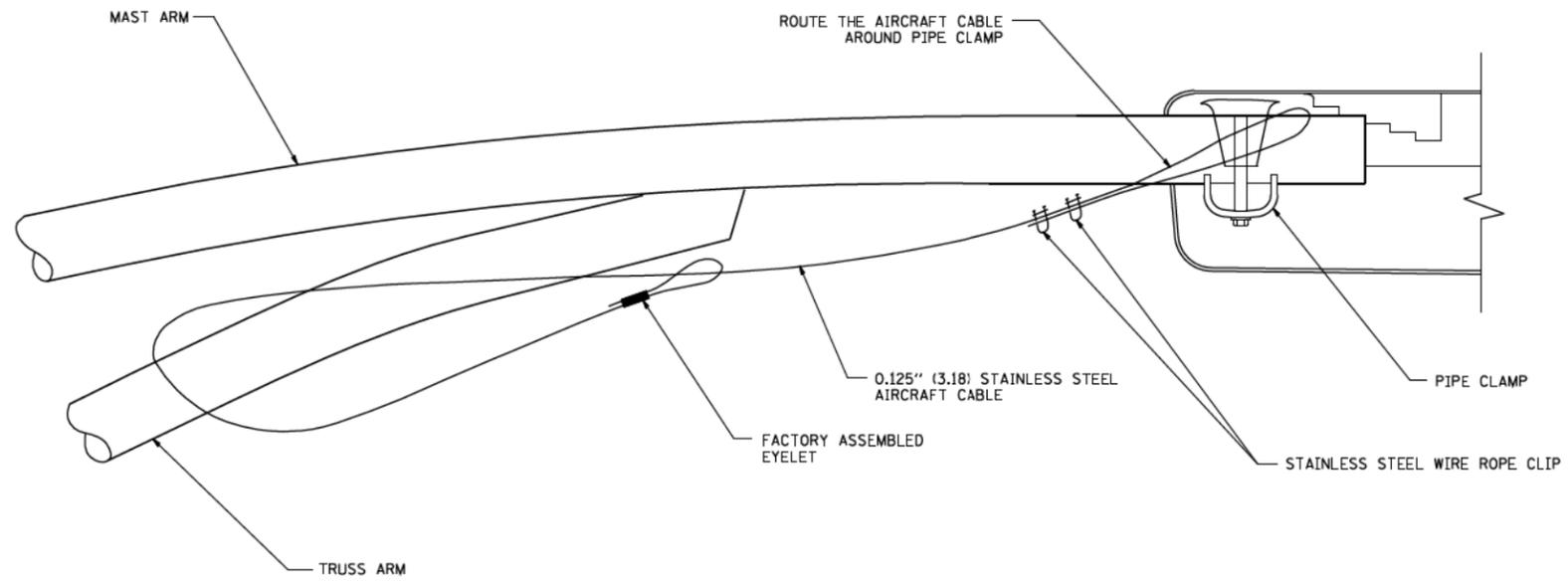


LIGHT POLE BASE PLATE DETAIL  
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)

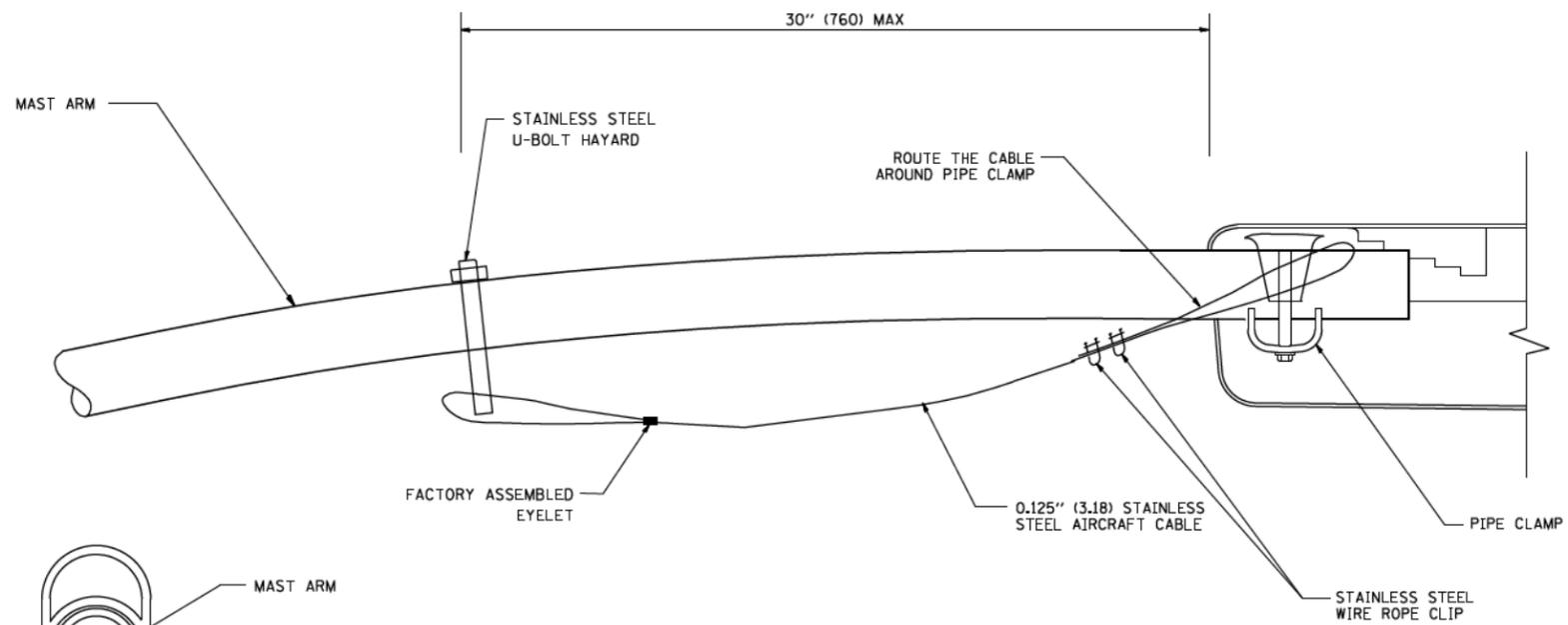


HANDHOLE DETAIL  
(N.T.S.)

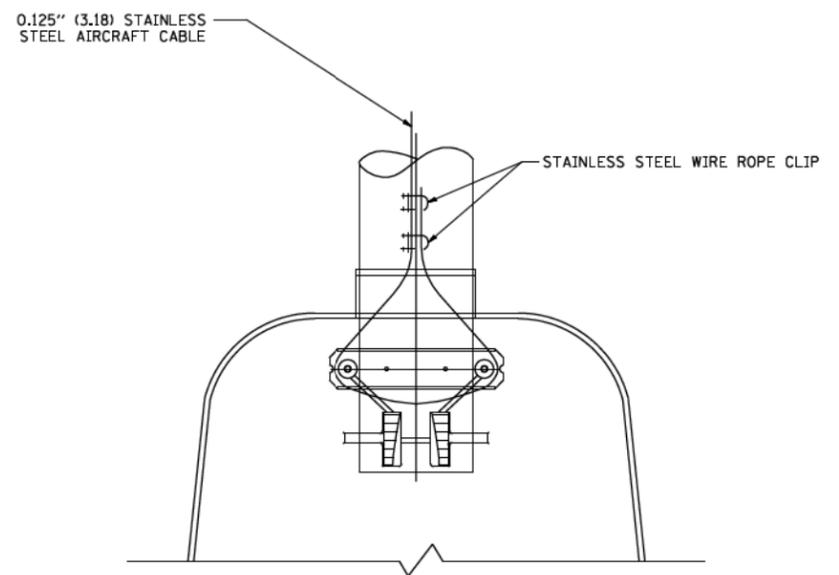
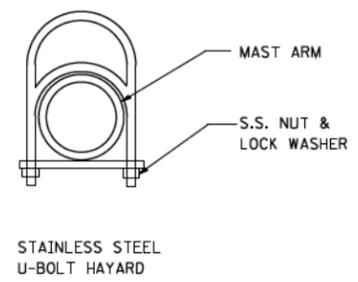
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ca:\pwork\p\dot\lejye\d0108315\be418.dgn		DRAWN - LEY	REVISED - R. TOMSONS 09-06-00		<b>47'-6" (14.478 m) MOUNTING HEIGHT</b>			90/94/20	2015-080R&B	COOK	250	219
		PLOT SCALE = 58.0000 / 1"	REVISED - R. TOMSONS 09-02-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BE-410</b>		CONTRACT NO. 62B76	
		PLOT DATE = 4/4/2013	REVISED - R. TOMSONS 01-18-13		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



**SIDE VIEW (TRUSS ARM)**  
N.T.S.



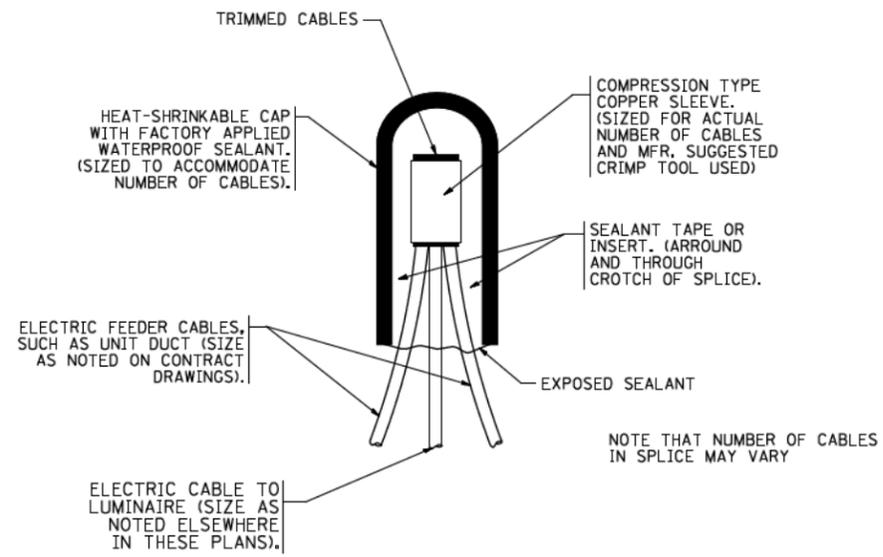
**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
N.T.S.



**BOTTOM VIEW**  
N.T.S.

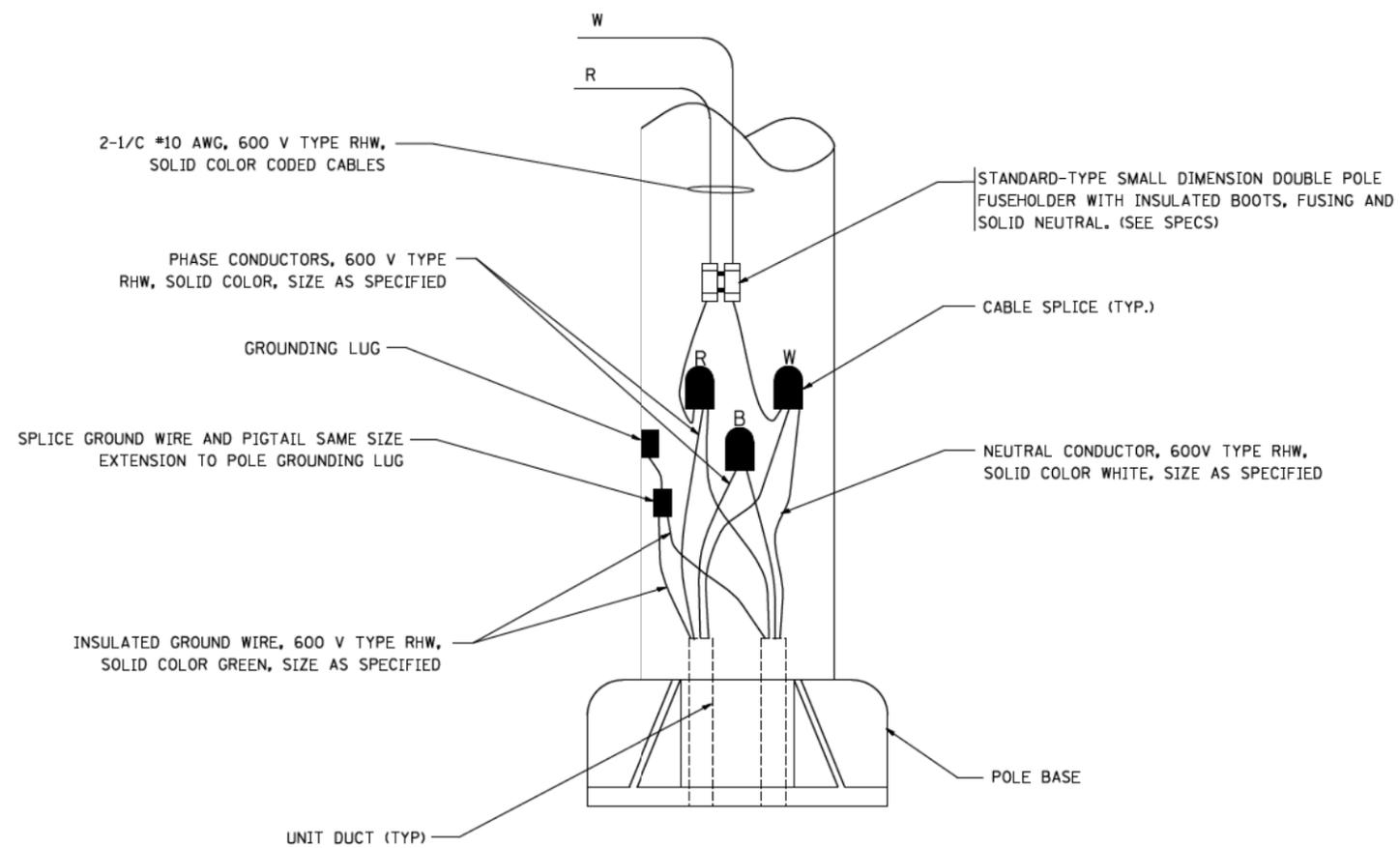
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
  2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
  3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
  4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -					90/94/230	2015-080R&B	COOK	250	220
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -					<b>BE-701</b>		CONTRACT NO. 62B76		
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



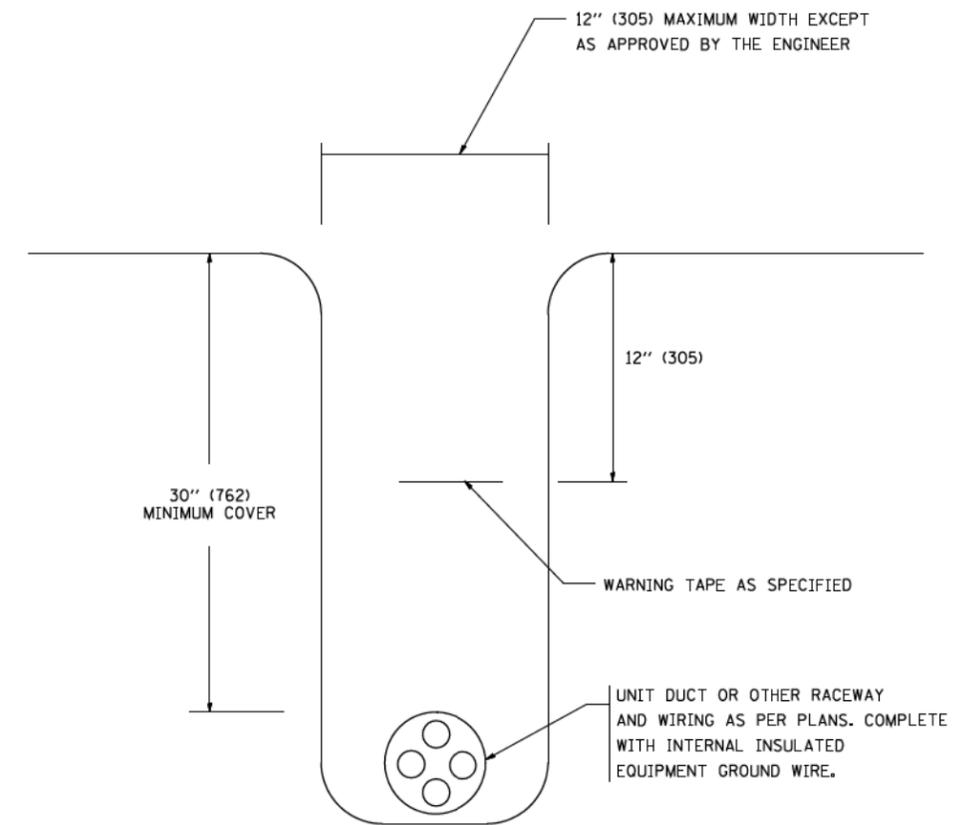
**TYPICAL SPLICE DETAIL**

N.T.S.



**POLE WIRING DETAIL**

N.T.S.



**TYPICAL WIRING IN TRENCH DETAIL**

N.T.S.

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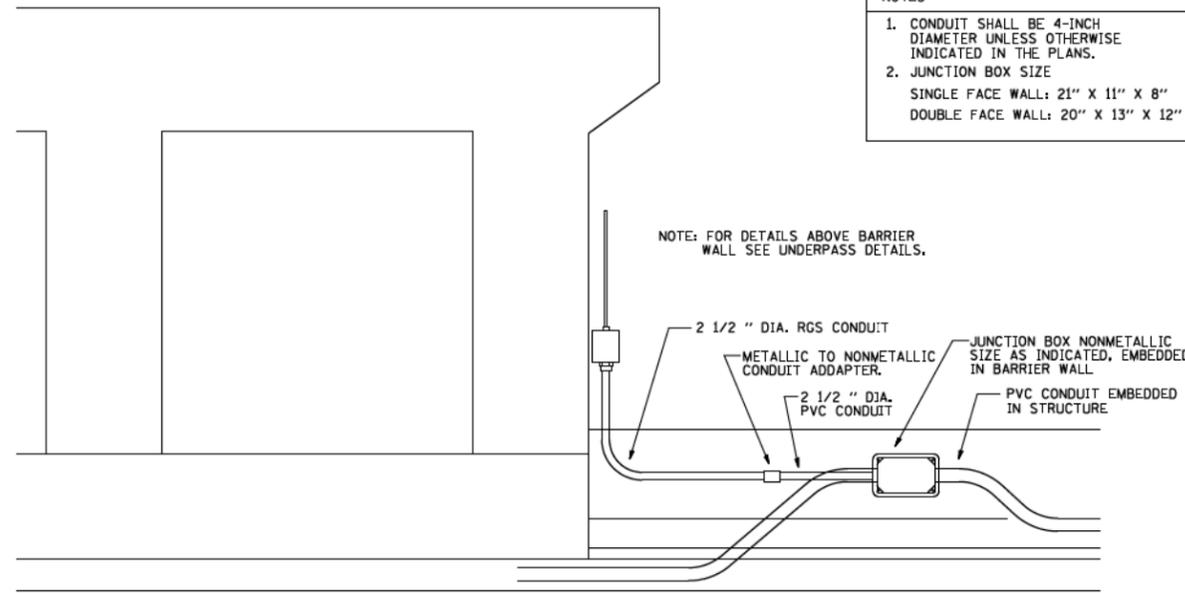
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DATE -	REVISD -

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DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MISC. ELECTRICAL DETAILS SHEET A</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

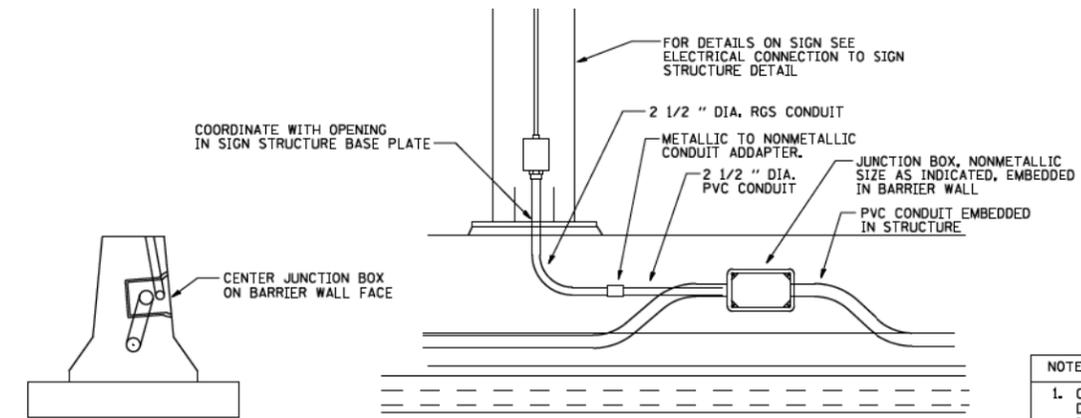
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BE-702			CONTRACT NO. 62B76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

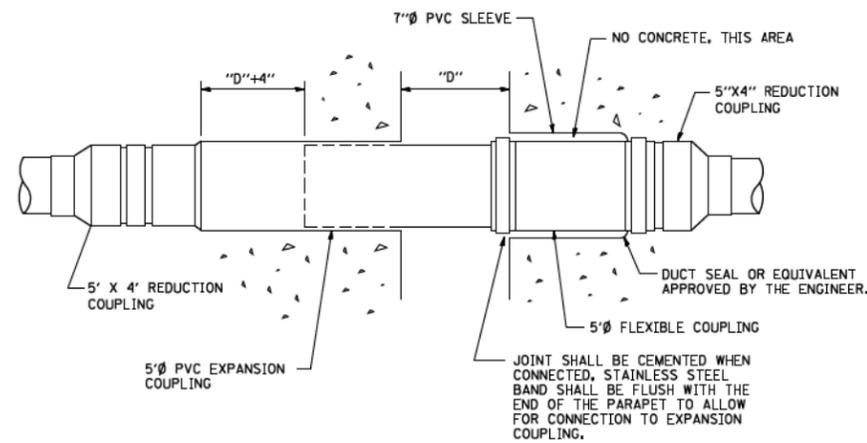
NOTE: FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

ED - BWD  
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

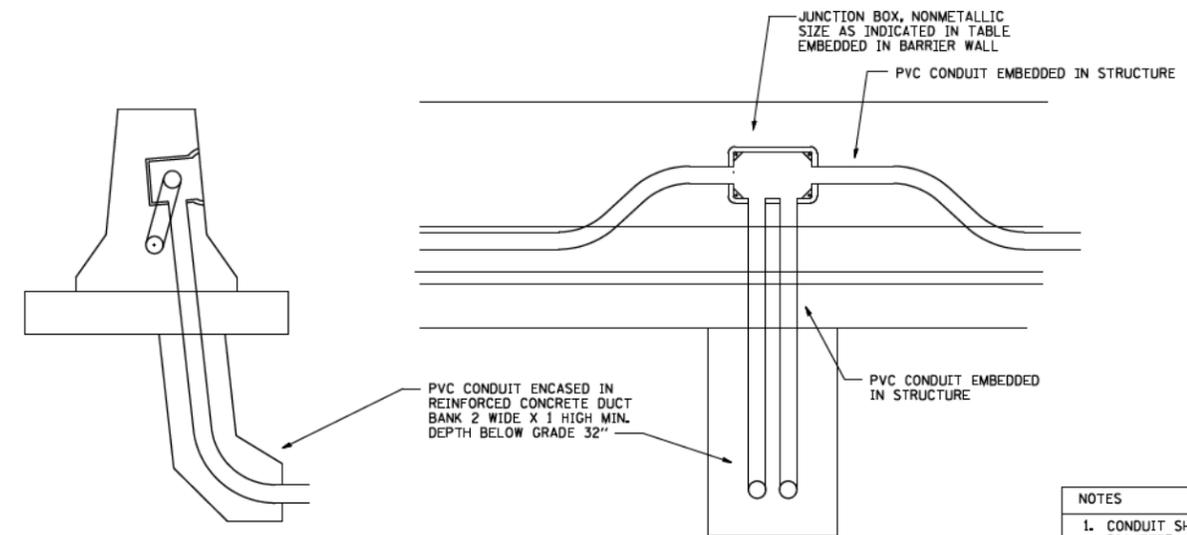


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

ED - SGN  
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING

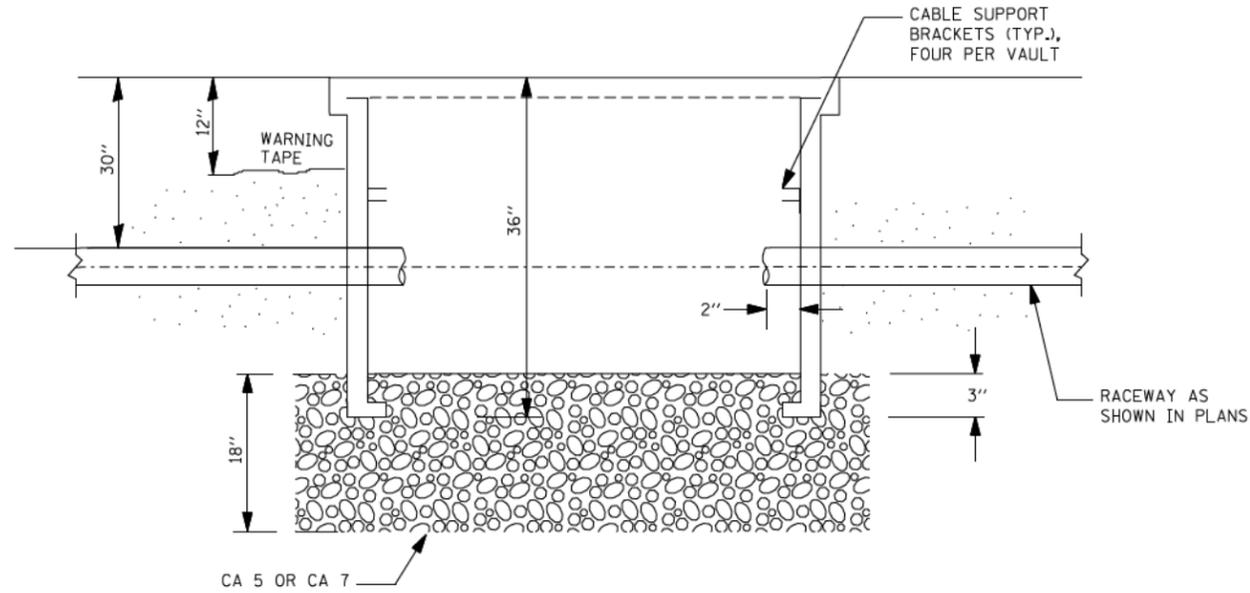


INSTALLATION OF CONDUIT  
IN BRIDGE PARAPET EXPANSION JOINT  
(N.T.S.)

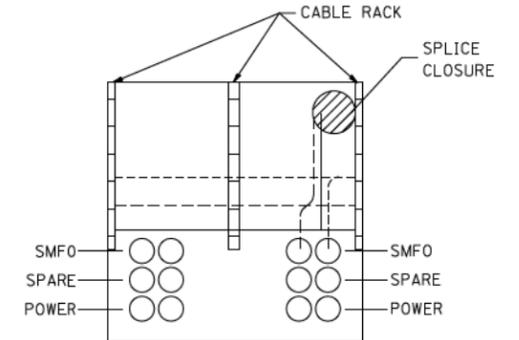
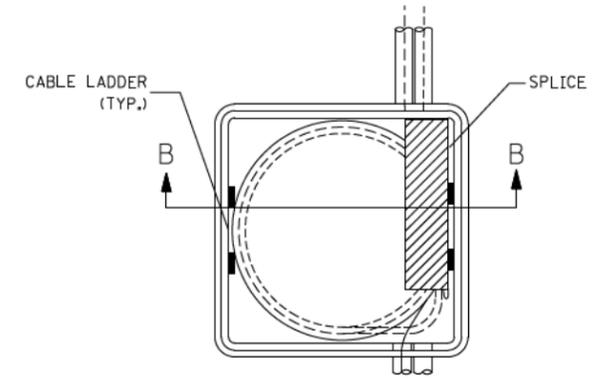


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
  2. JUNCTION BOX SIZE  
SINGLE FACE WALL: 21" X 11" X 8"  
DOUBLE FACE WALL: 20" X 13" X 12"

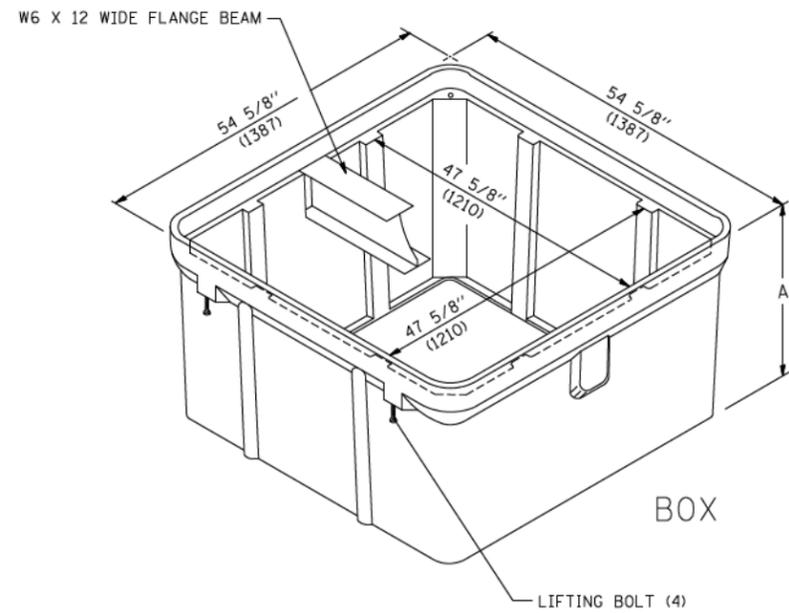
ED - BW  
JUNCTION BOX EMBEDDED IN BARRIER WALL



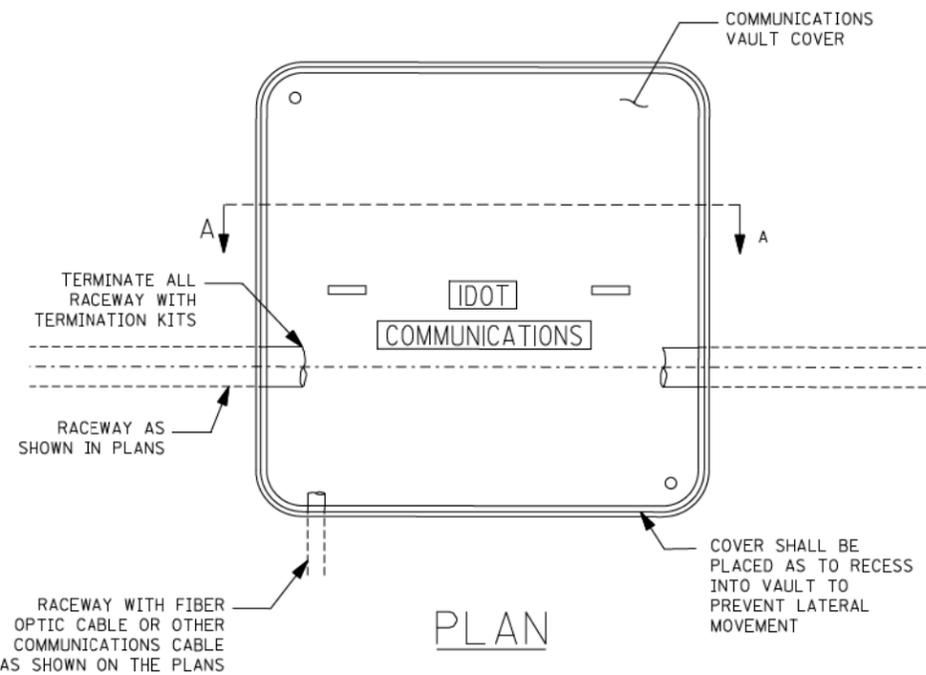
SECTION A-A



SECTION B-B



ISOMETRIC



PLAN

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. COVER SHALL WITHSTAND A 22,500/33,750 DESIGN/TEST LOADING AND SHALL LOCK.
3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
5. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

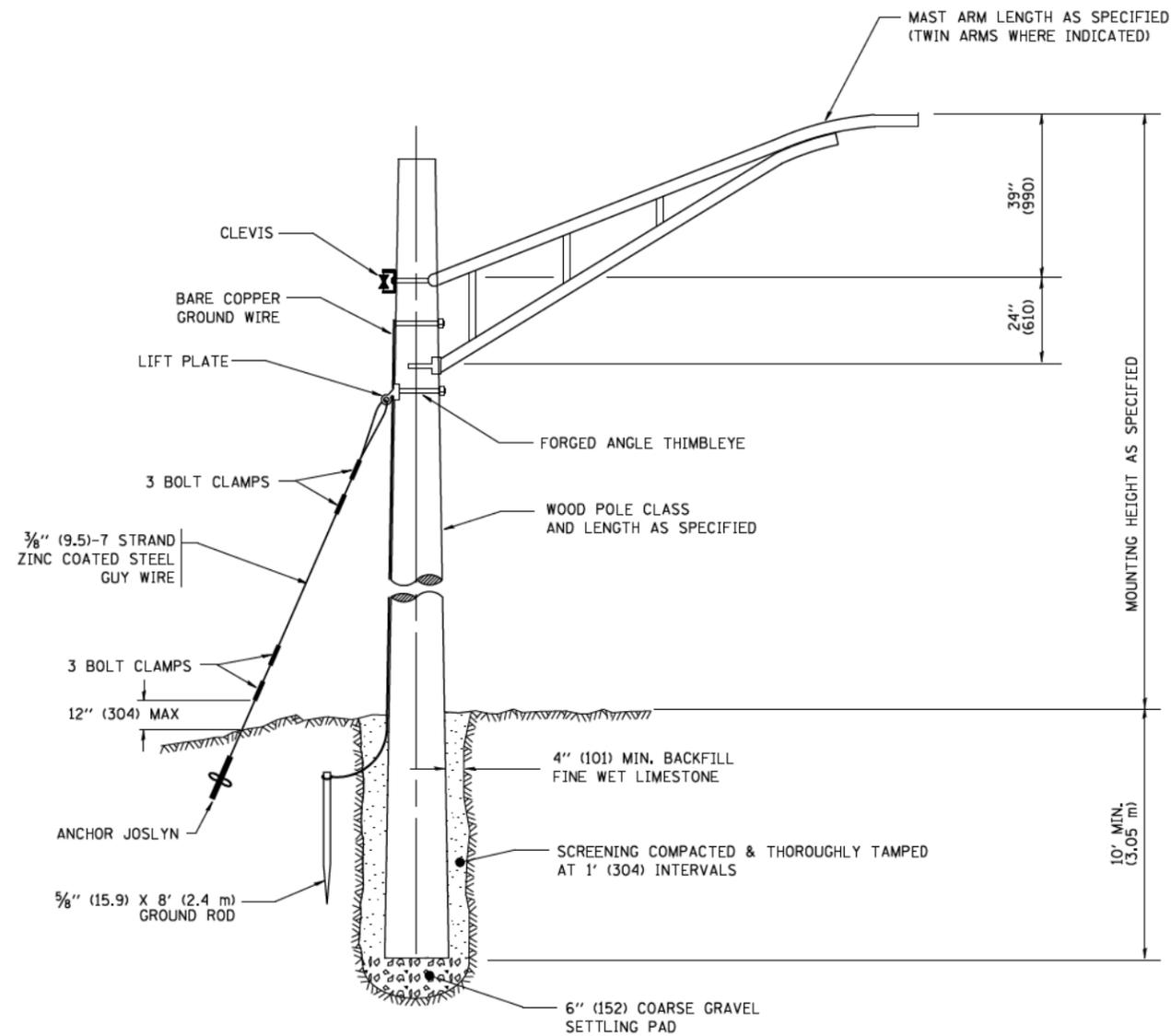
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

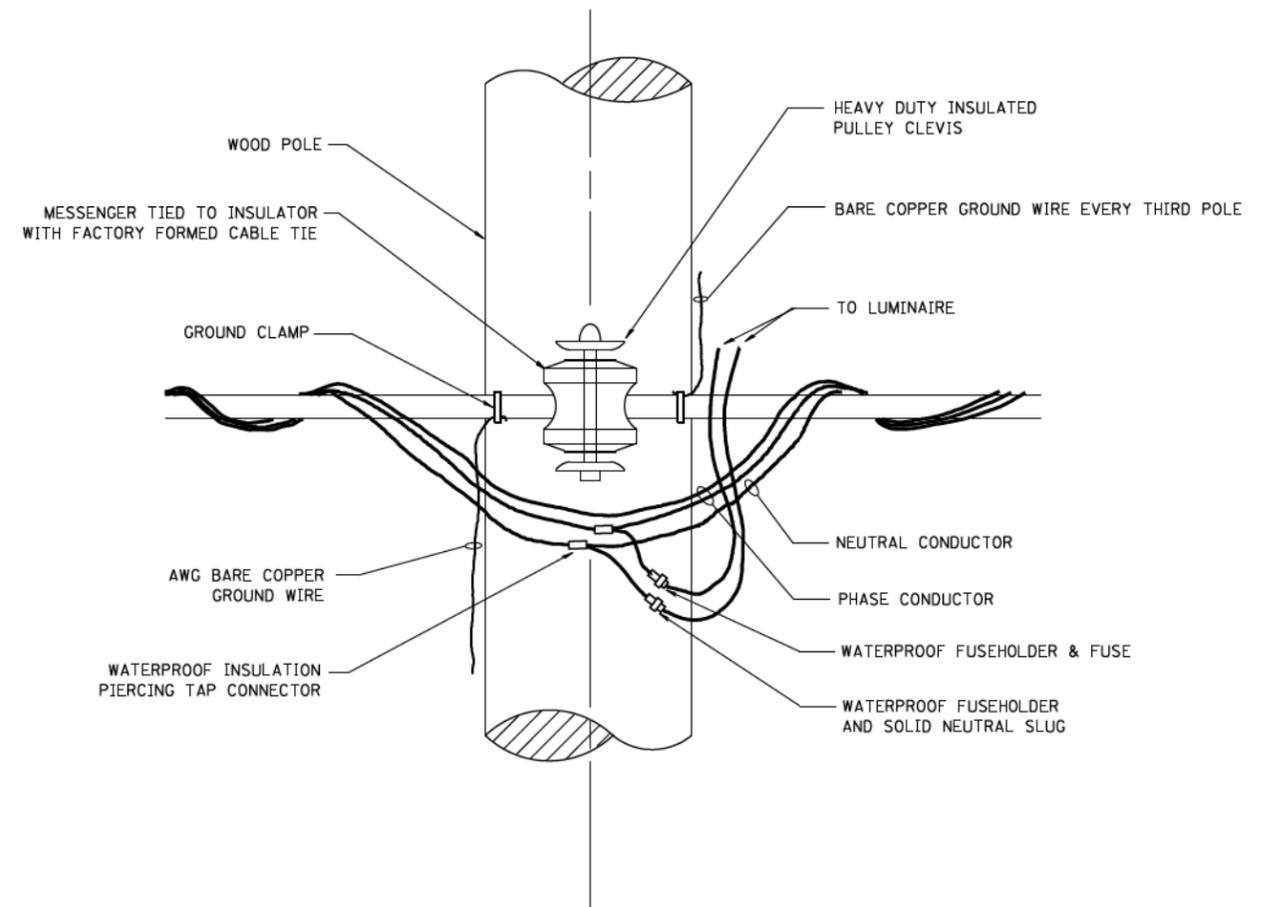
COMMUNICATIONS VAULT, COMPOSITE CONCRETE

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

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BE-705		CONTRACT NO. 62076		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

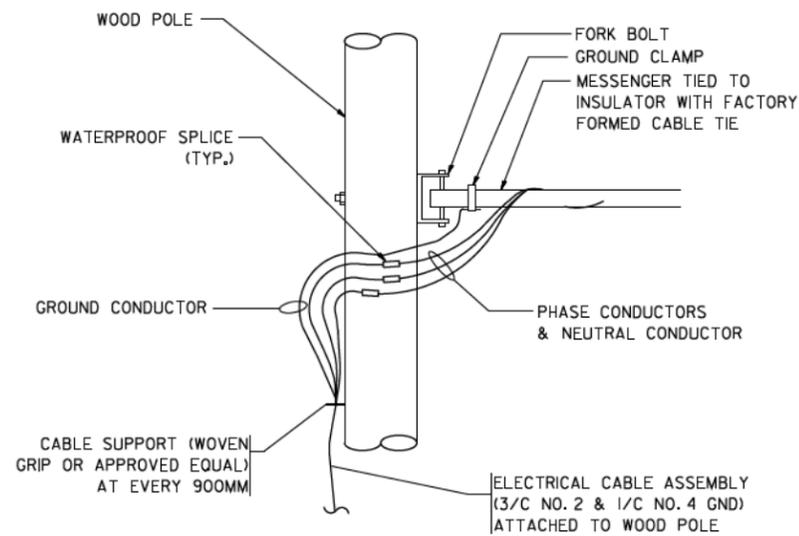


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

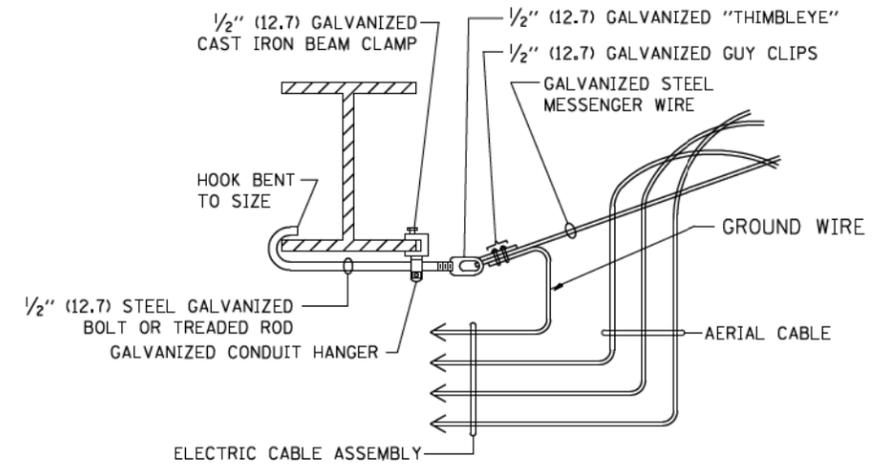
**NOTES:**

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME = W:\diststd\22x34\be808.dgn	USER NAME = geglianob	DESIGNED - DRAWN -	REVISED - REVISED -	08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY LIGHT POLE DETAILS</b>			F.A. I. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 224
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BE-800</b>		CONTRACT NO. 62B76	
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



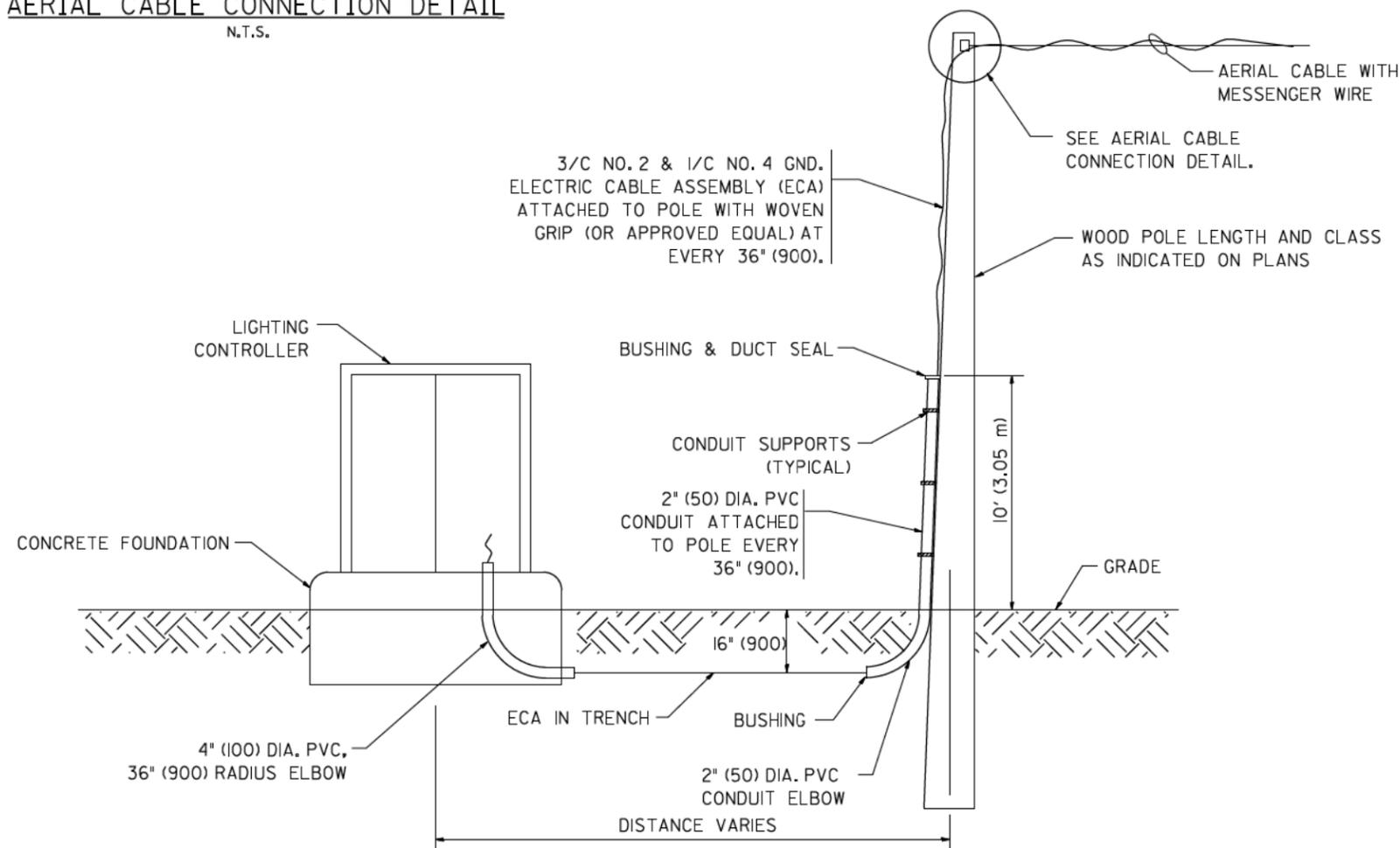
**AERIAL CABLE CONNECTION DETAIL**  
N.T.S.



**AERIAL CABLE  
ATTACHED TO STRUCTURE**  
NOT TO SCALE

**NOTES:**

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



**WOOD POLE TO LIGHTING CONTROLLER  
WIRING CONNECTION DETAIL**  
N.T.S.

FILE NAME =  
W:\diststd\22x34\be901.dgn

USER NAME = geglanoht  
PLOT SCALE = 50.000' / IN.  
PLOT DATE = 1/4/2008

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

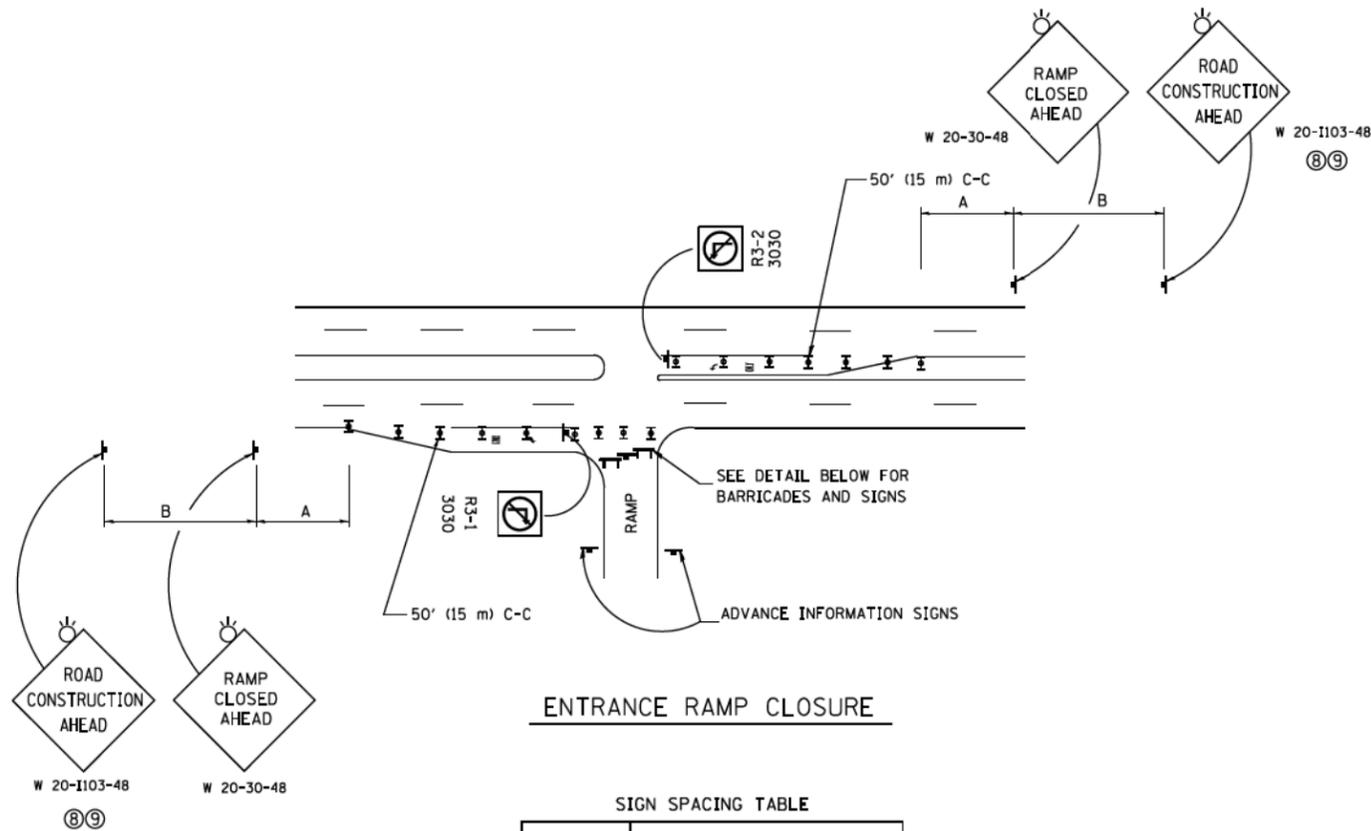
REVISED - 08-08-03  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY AERIAL CABLE INSTALLATION**

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

F.A. I. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 225
BE-801		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

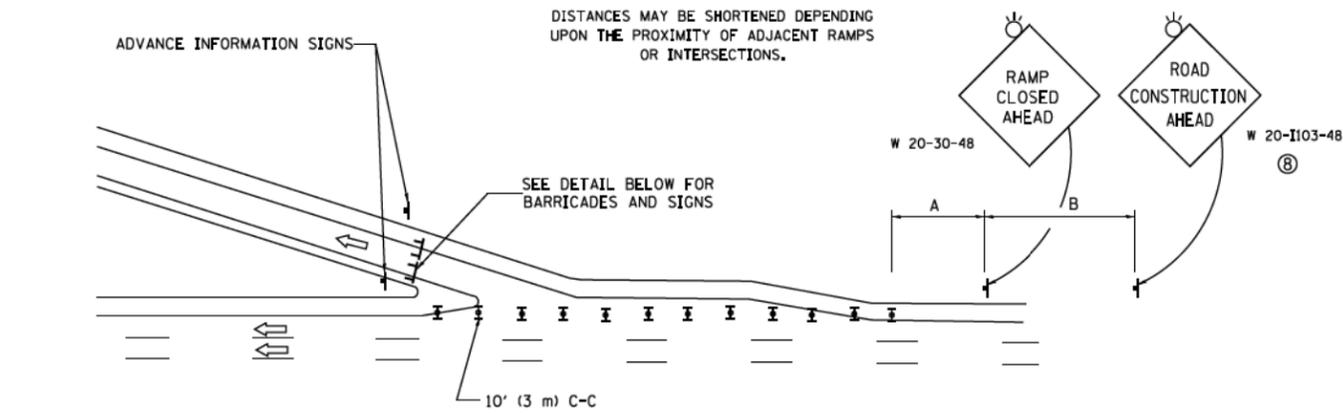


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

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

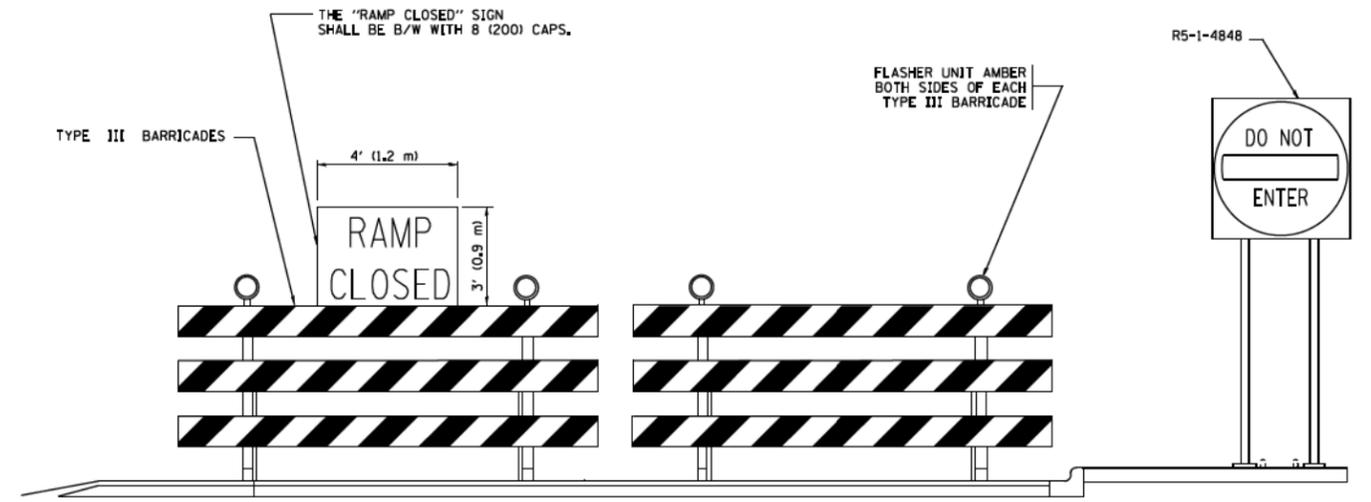
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

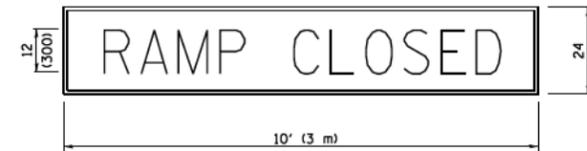
**SYMBOLS**

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



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

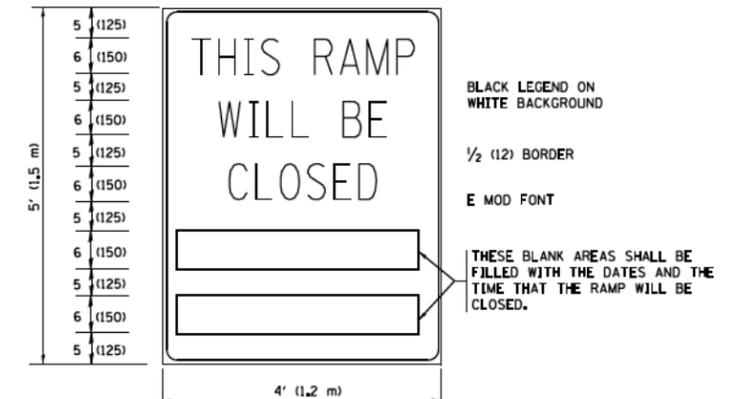
**RAMP CLOSURE ADVANCE WARNING SIGN**



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

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

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



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

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

**GENERAL NOTES:**

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

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

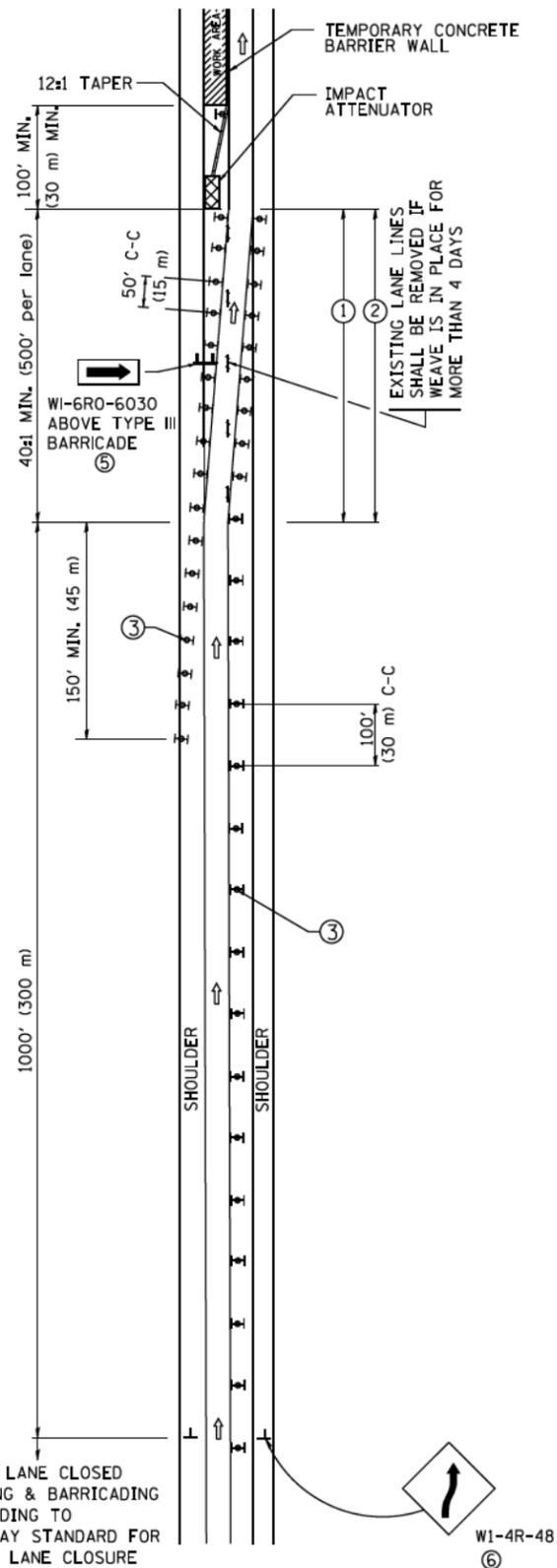
FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
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PLOT SCALE = 58.000' / in.		CHECKED -	REVISED - SPB 12-09
PLOT DATE = 7/8/2013		DATE - 02-83	REVISED - MD 06-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

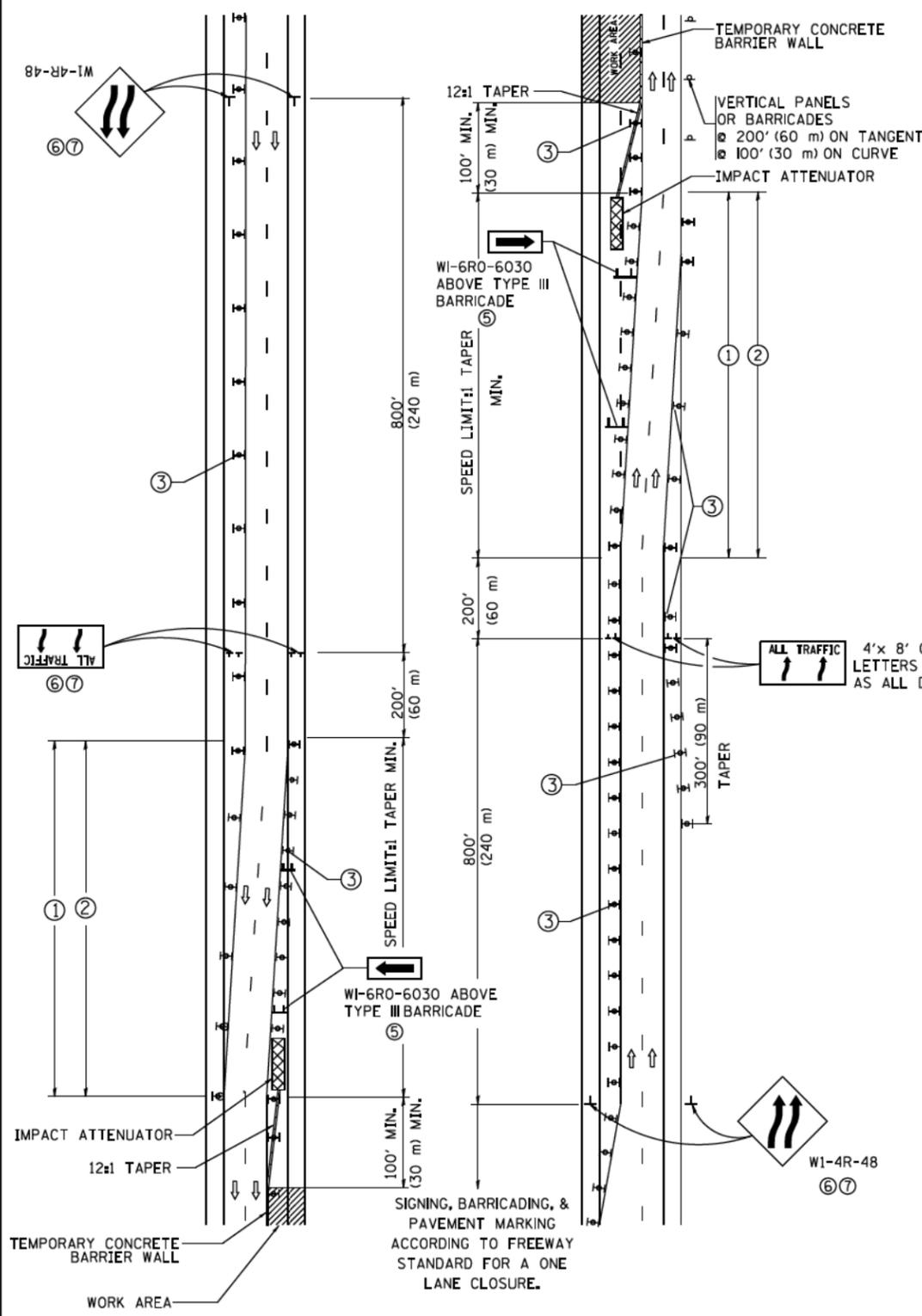
<b>ENTRANCE AND EXIT RAMP CLOSURE DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/230	2015-080R&B	COOK	250	226
TC-08		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



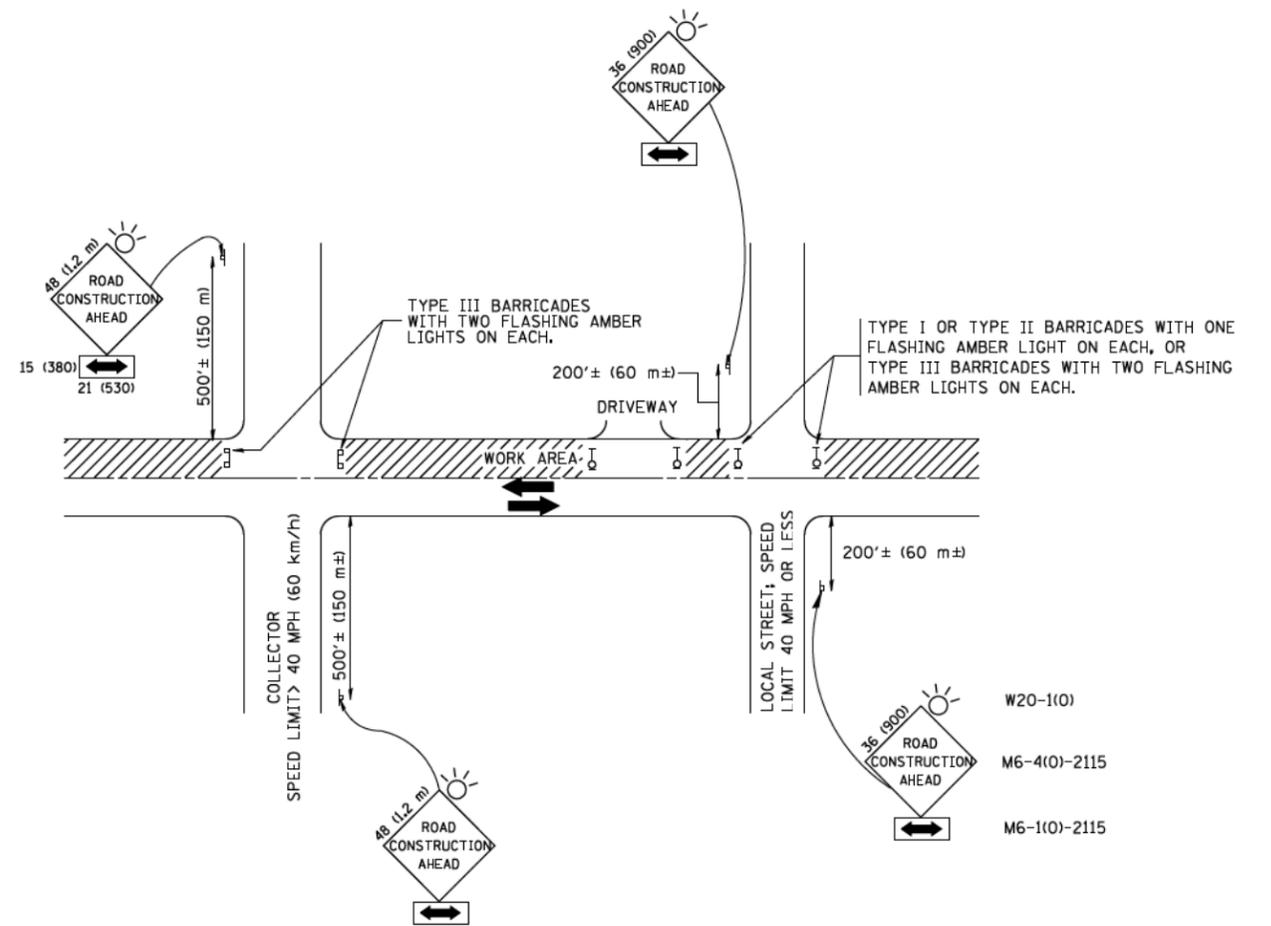
- GENERAL NOTES**
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
  - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE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

**SYMBOLS**

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\footemj\d0108315\td09.dgn	DRAWN -	REVISED - SPB 01-07	90/94/230					2015-080R&B	COOK	250	227	
PLOT SCALE = 58.800' / in.	CHECKED -	REVISED - SPB 12-09	<b>TC-09</b>				CONTRACT NO.	62B76				
PLOT DATE = 7/1/2013	DATE - 02-87	REVISED - MD 06-13	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			



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

### NOTES:

#### A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

#### B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

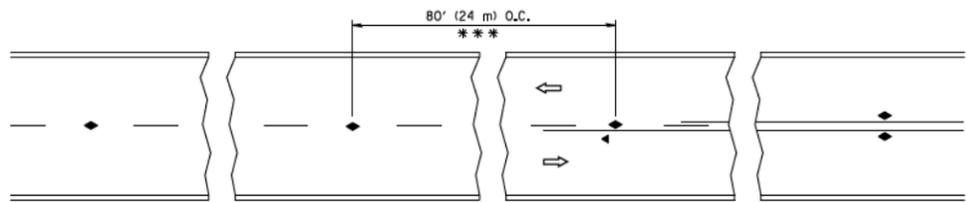
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACH 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

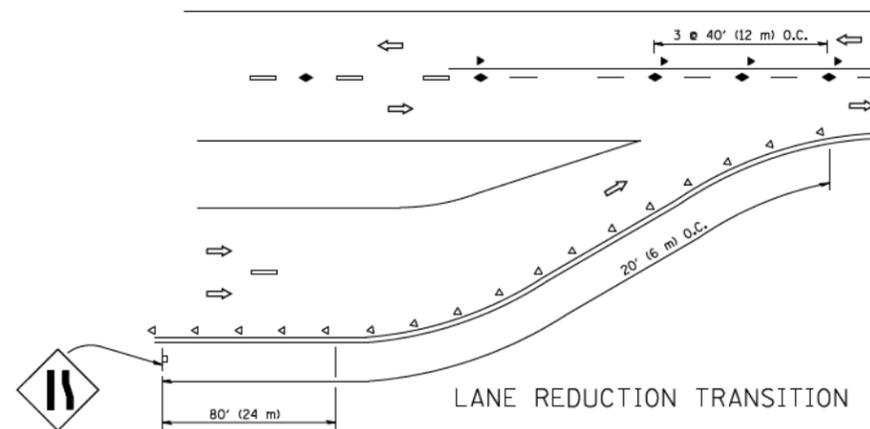
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.T. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 228
TC-10			CONTRACT NO. 62B76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

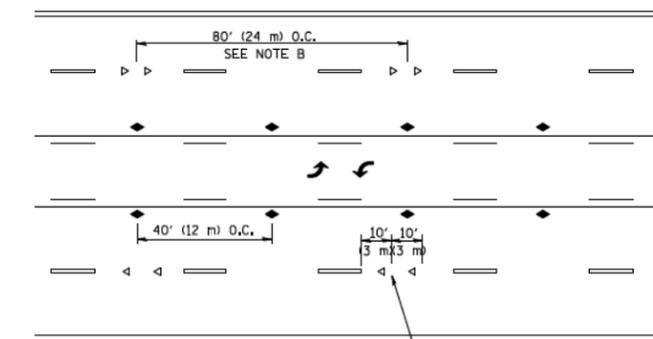


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

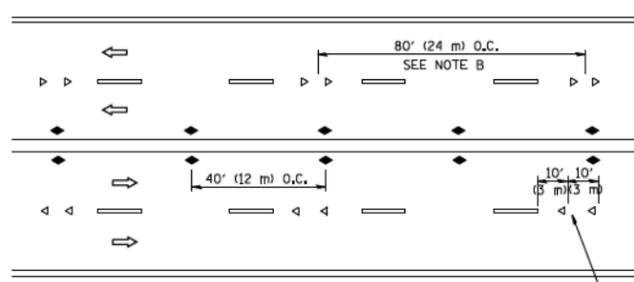
TWO-LANE/TWO-WAY



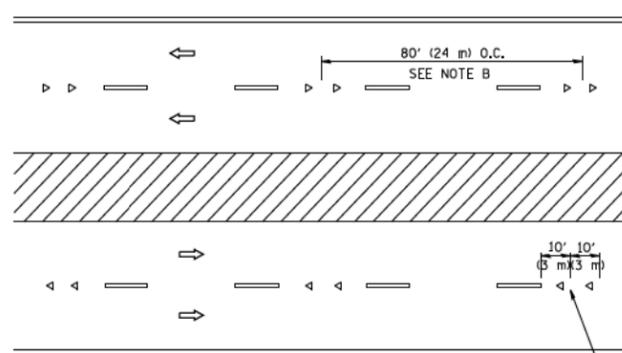
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

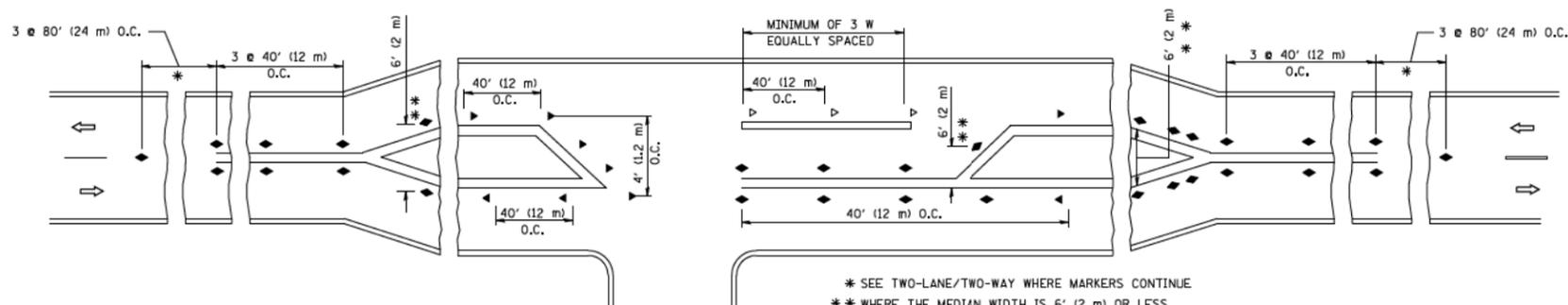
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

LEFT TURN

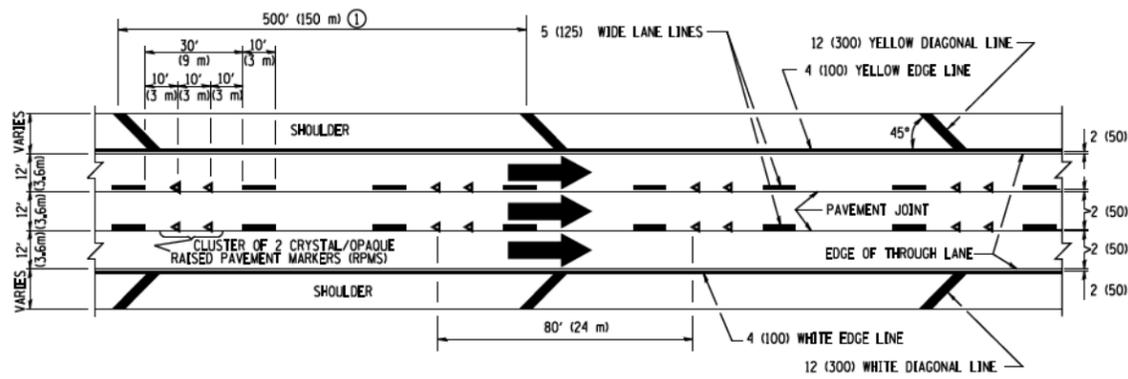
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = lryse	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ca\pwork\pwork\lryse\d0108315\td11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	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.

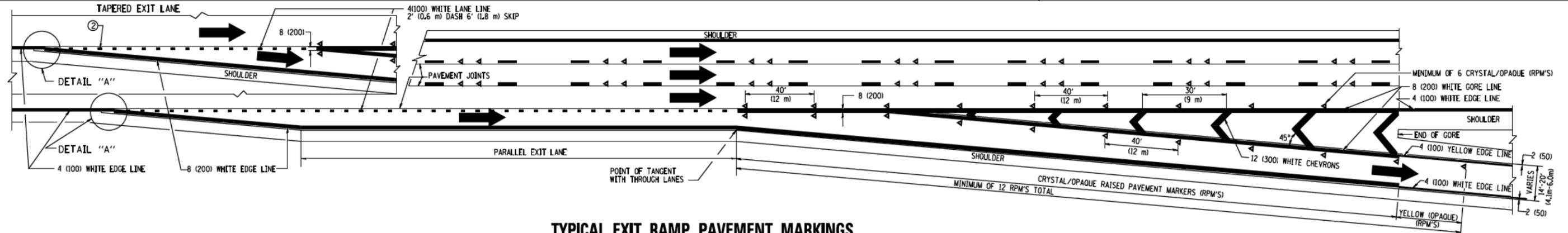
F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/230	2015-080R&B	COOK	250	229
TC-11			CONTRACT NO. 62B76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



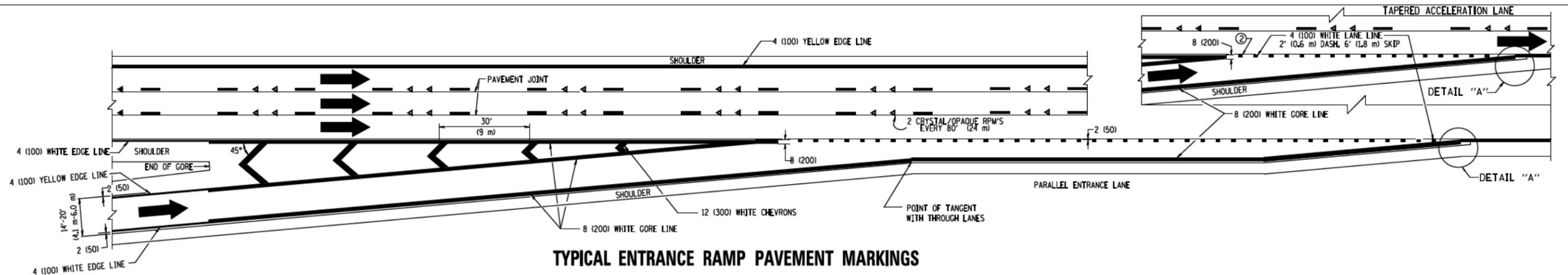
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

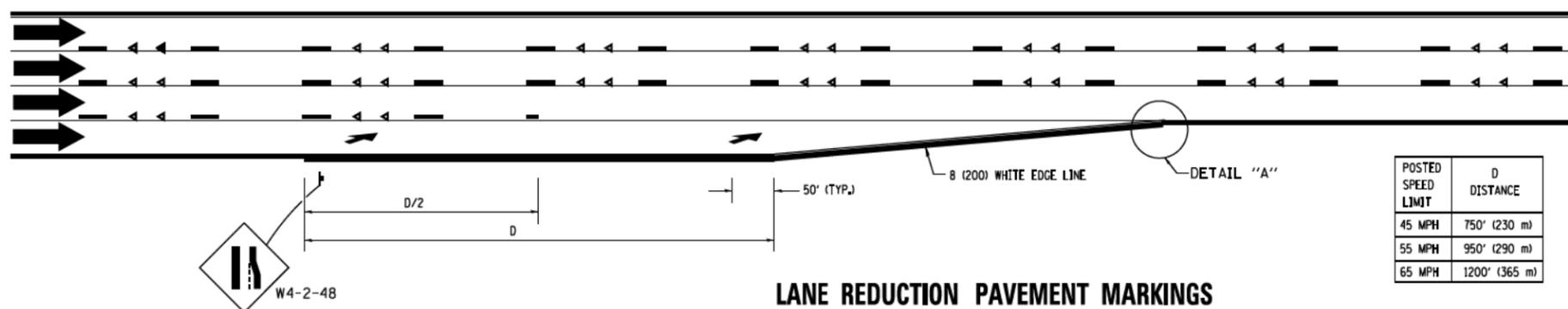
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLaid OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE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



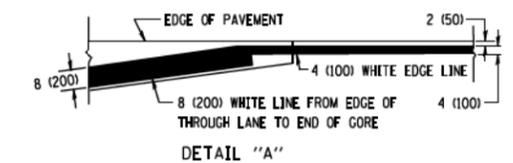
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS



NOTES

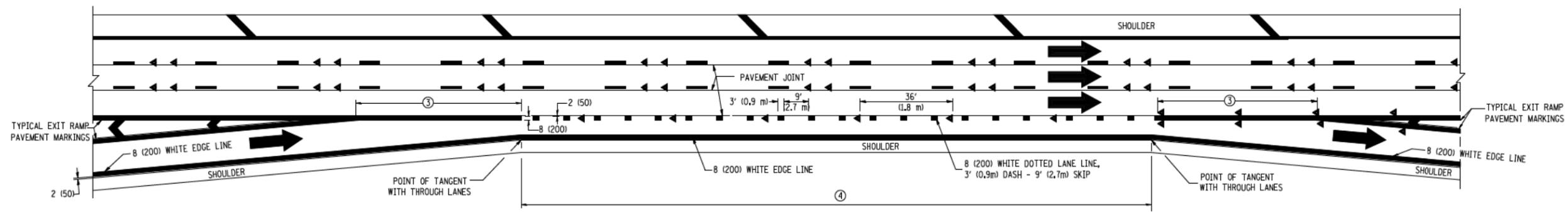
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT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

FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
ca:\pwork\pedit\footemj\d0108315\1012.dgn		DRAWN -	REVISED - S.P.B. 01-07
	PLOT SCALE = 58.000' / in.	CHECKED -	REVISED - S.P.B. 01-10
	PLOT DATE = 7/8/2013	DATE - 01-90	REVISED - M.D. 05-13

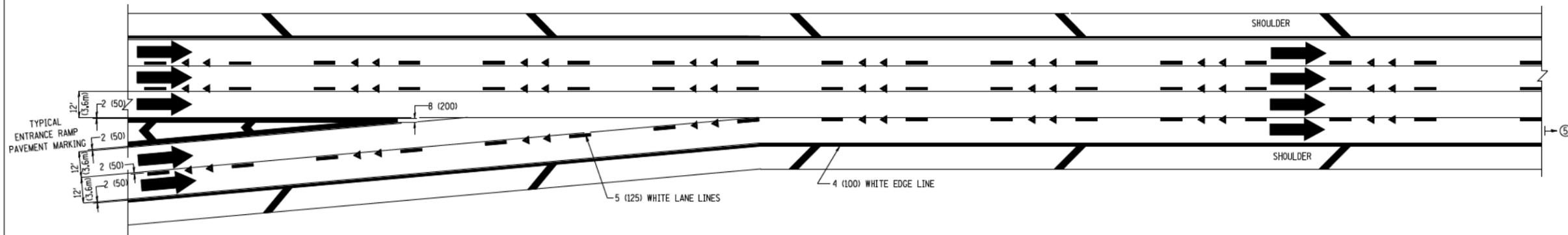
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS	
SCALE: NONE	SHEET NO. 1 OF 2 SHEETS
STA.	TO STA.

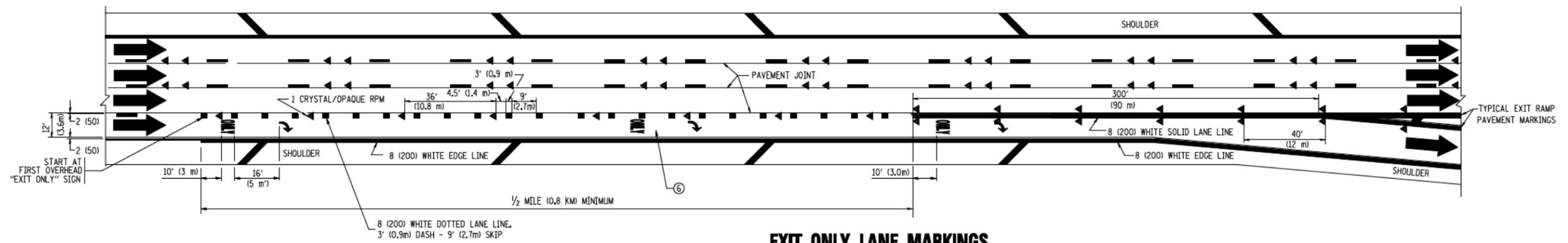
F.A.I. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 230
TC-12			CONTRACT NO. 62B76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



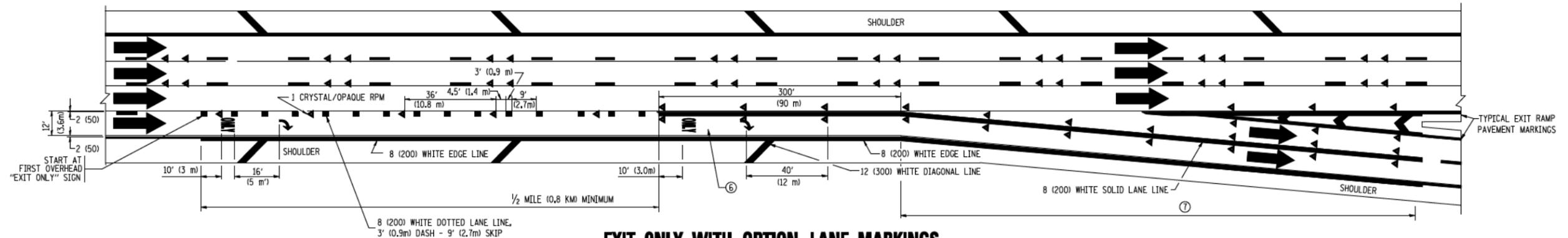
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**



**EXIT ONLY WITH OPTION LANE MARKINGS**

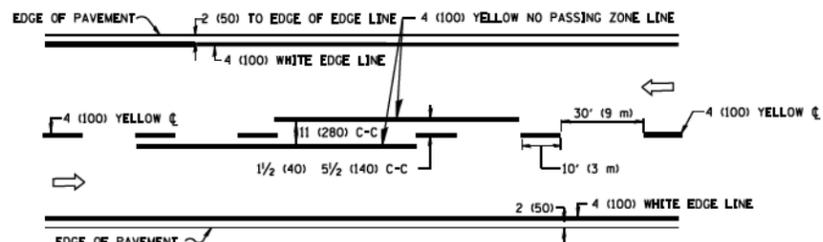
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY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

FILE NAME =	USER NAME = 1eysa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
ca\pwork\PIWIDOT\LEYSAD\0108315\to12.dwg		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

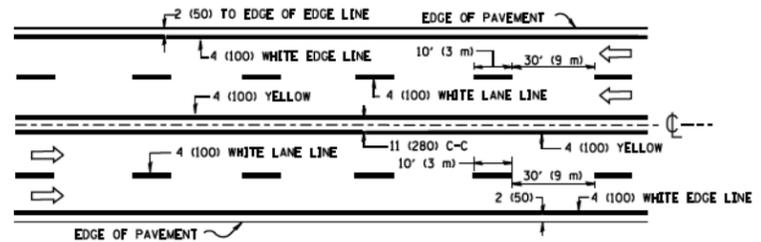
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

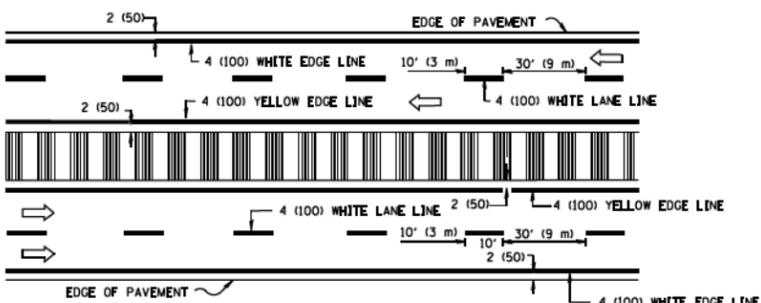
F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/230	2015-080R&B	COOK	250	231
<b>TC-12</b>		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

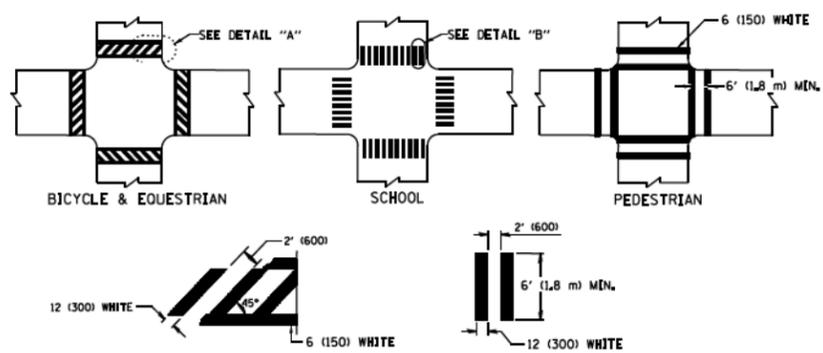


**MULTI-LANE UNDIVIDED**



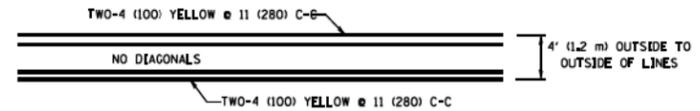
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

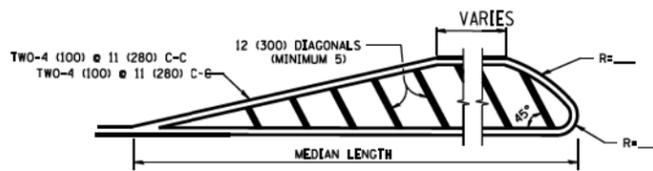


**TYPICAL CROSSWALK MARKING**

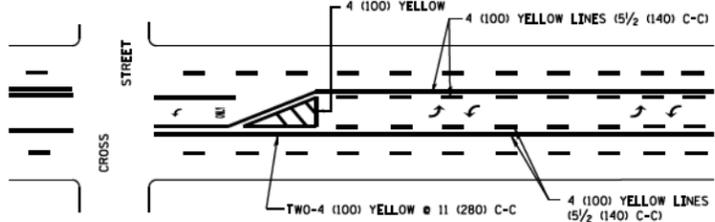
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



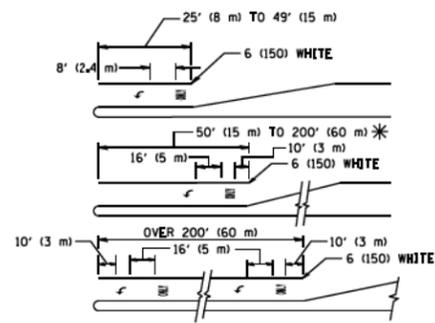
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



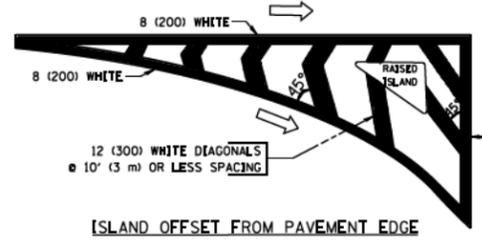
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



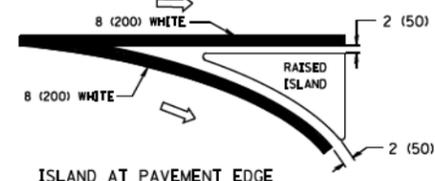
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>)

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

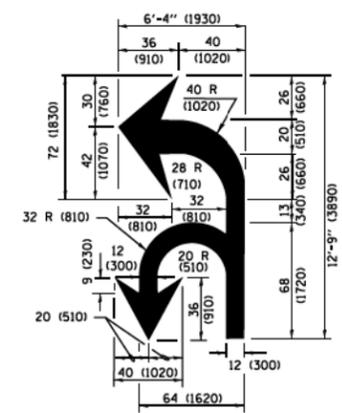


**ISLAND OFFSET FROM PAVEMENT EDGE**

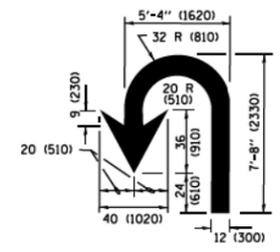


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK. IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" 15' 6" (4.8 m) LETTERS 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "X" = 3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X" = 54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

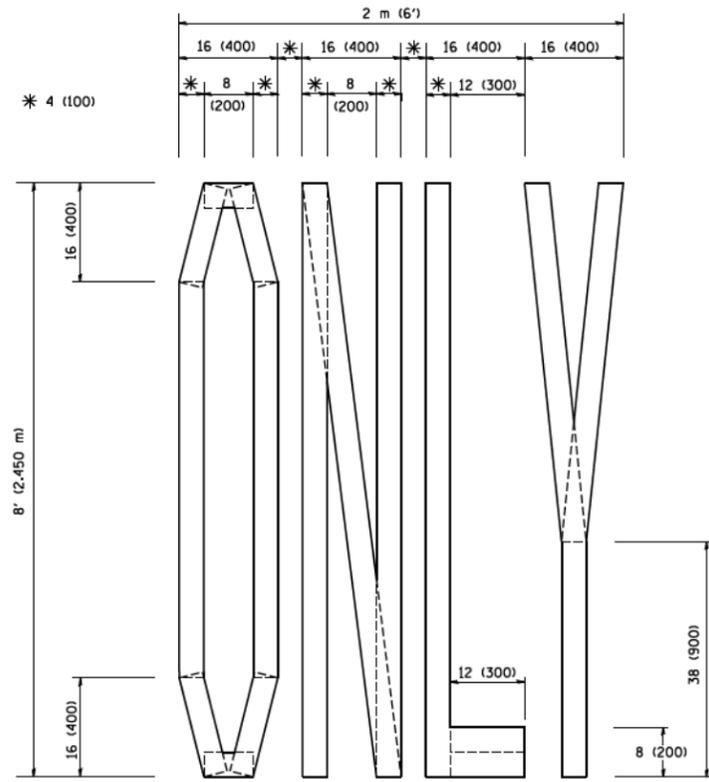
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

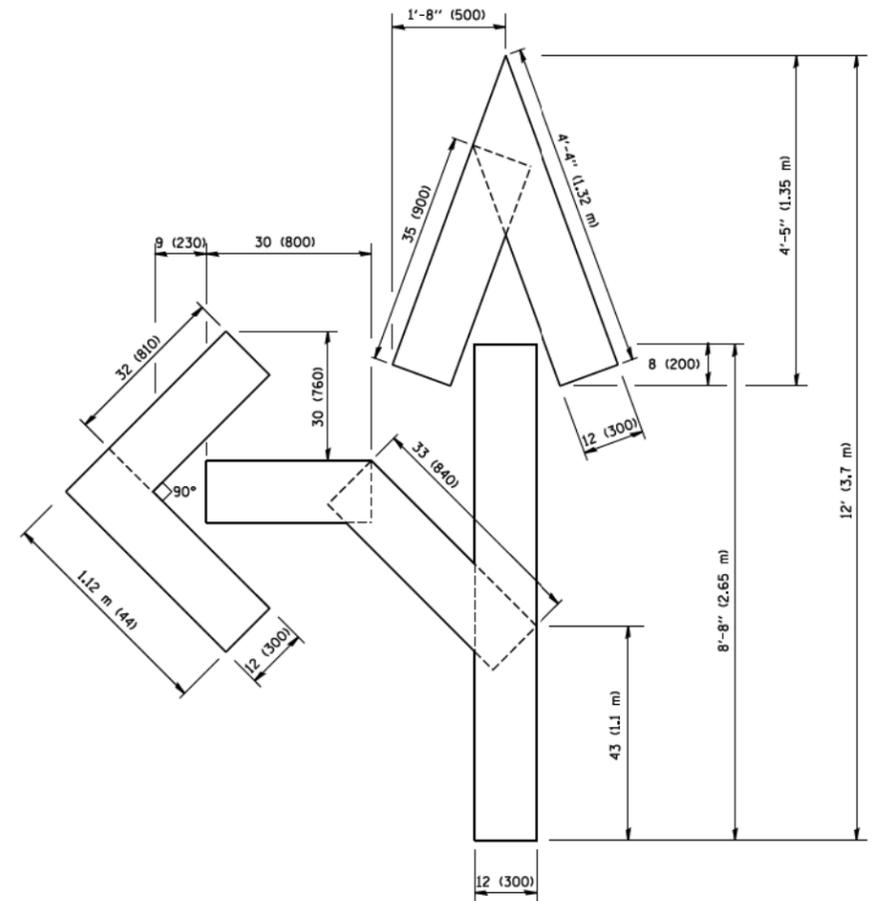
FILE NAME :	USER NAME = 1szakrf	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
pw\11884EBID\INTEG\Illinois.gov\WDDT\Documents\DOT Offices\District 1\Projects\Dist 1\022001\CAD\eta\CA0\heeta\to13.dgn		CHECKED -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 58.000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 07-01-13
Default	PLOT DATE = 12/21/2015		REVISED - C. JUCIUS 12-21-15

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

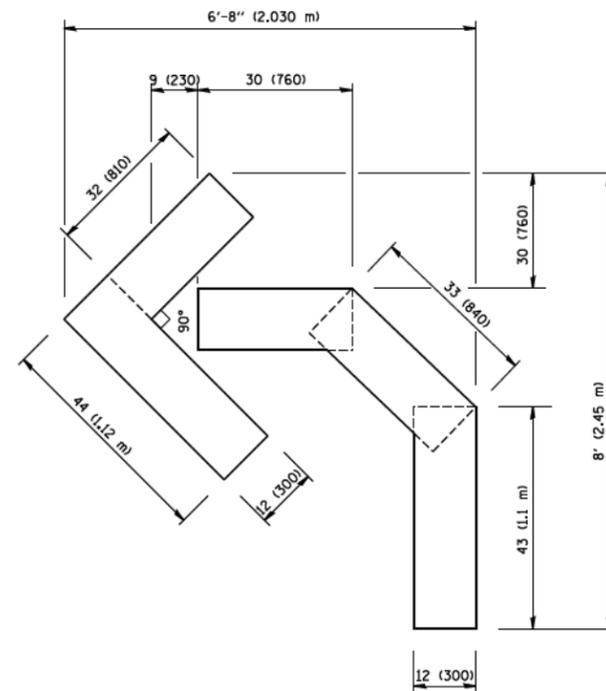
DISTRICT ONE		F.A. 1-1-RT/20	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		01/04/20	2015-080R&B	COOK	250	232
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.		CONTRACT NO. 62B76	
ILLINOIS FED. AID PROJECT						



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\diststd\22x34\to16.dgn	USER NAME = geglanoht	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 06-05-96 REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING**

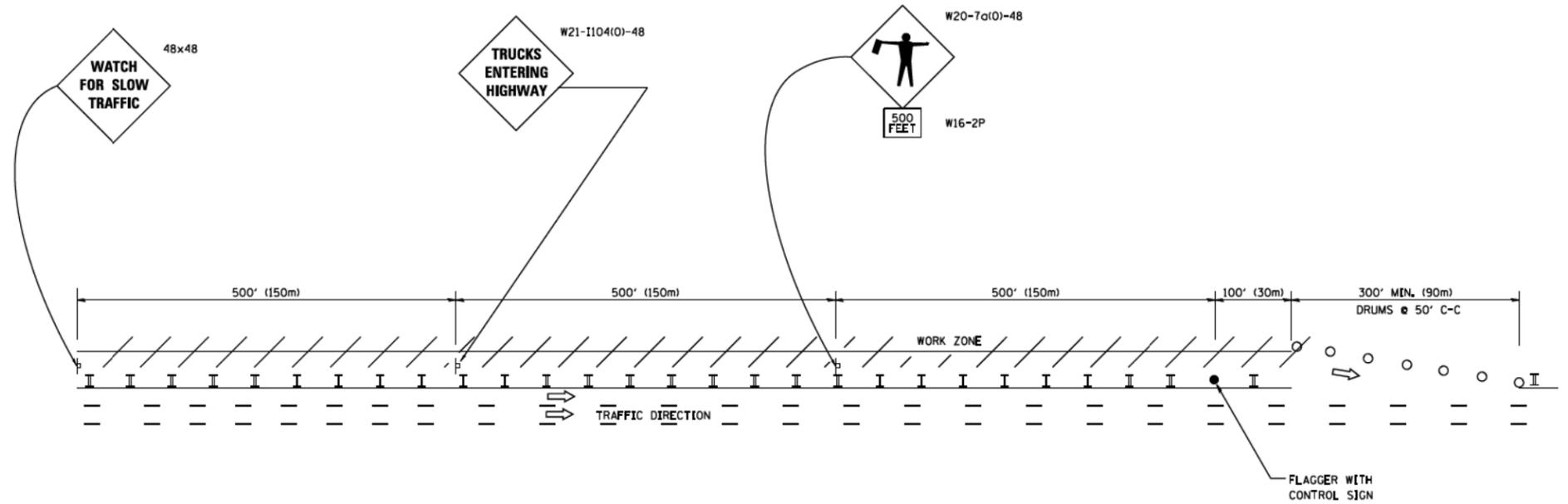
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. I. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 233
TC-16		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

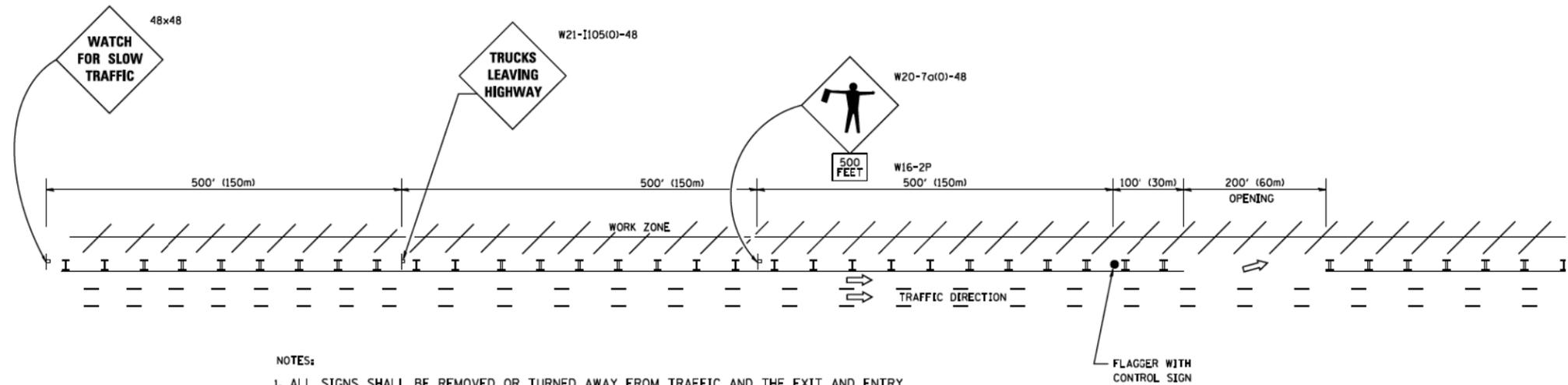


SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



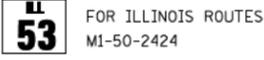
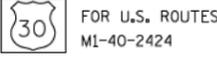
NOTES:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

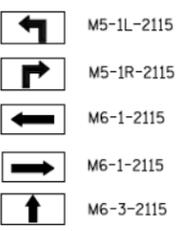
FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ca:\pwork\pwork\footemj\d0108315\to18.dgn		DRAWN -	REVISED - S.P.B. 01-07					90/94/230	2015-080R&B	COOK	250	235		
	PLOT SCALE = 58.000' / 1" =	CHECKED -	REVISED - S.P.B. 12-09		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		TC-18		CONTRACT NO. 62B76
	PLOT DATE = 7/8/2013	DATE -	REVISED - M.D. 06-13		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

**ROUTE MARKERS**

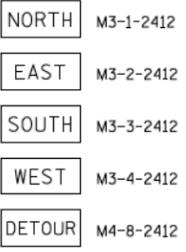


**MAIN STREET**  
R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

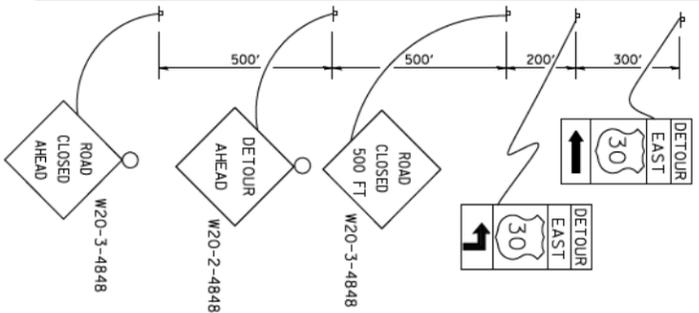
**ARROWS SIGNS**



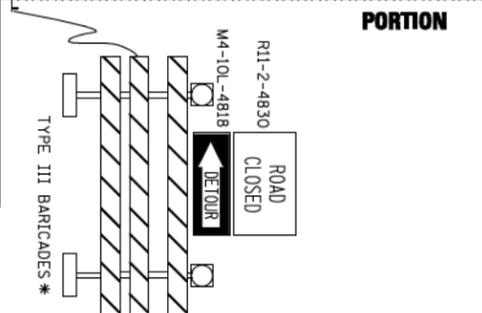
**CARDINAL DIRECTION & DETOUR SIGNS**



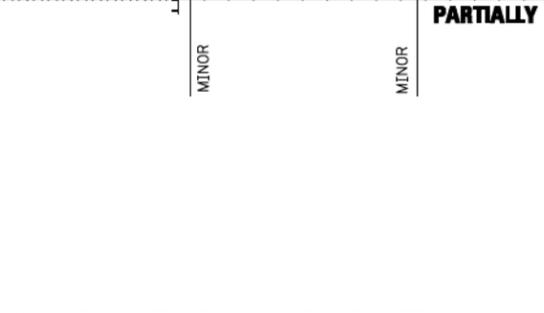
**STATE ROUTE**



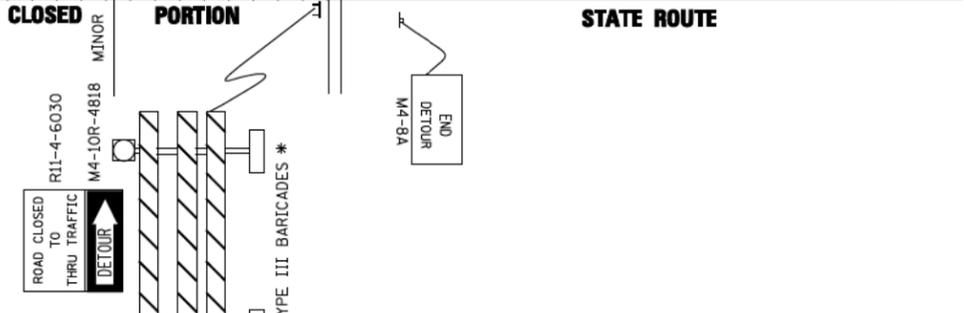
**COMPLETELY CLOSED PORTION**



**PARTIALLY CLOSED PORTION**



**STATE ROUTE**



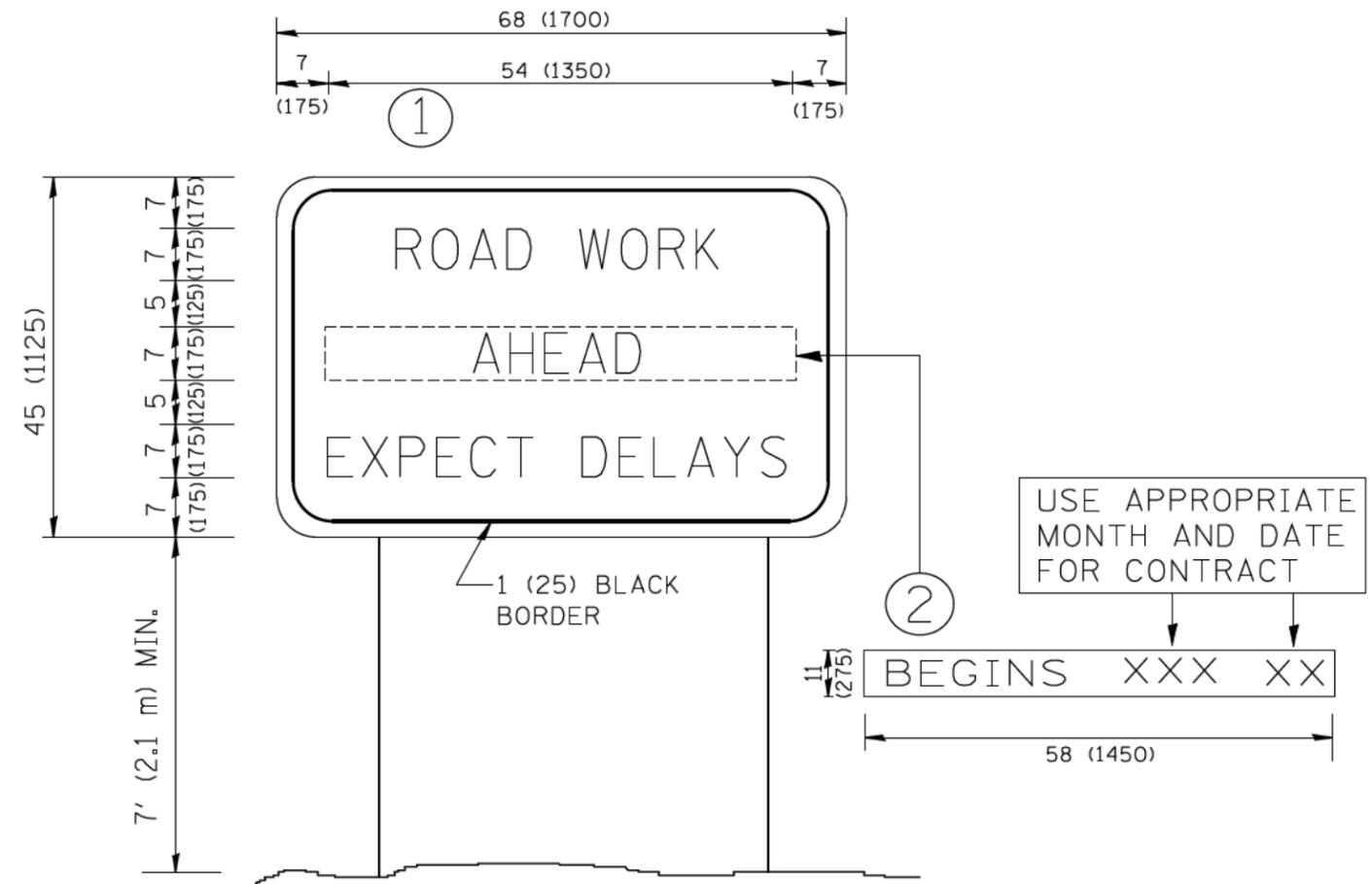
\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ca\pwork\p\IDOT\DRIVAKOSGN\d0108315\td21.dgn		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING FOR CLOSING STATE HIGHWAYS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/230	2015-080R&B	COOK	250	236
<b>TC-21</b>			CONTRACT NO. 62B76	
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.

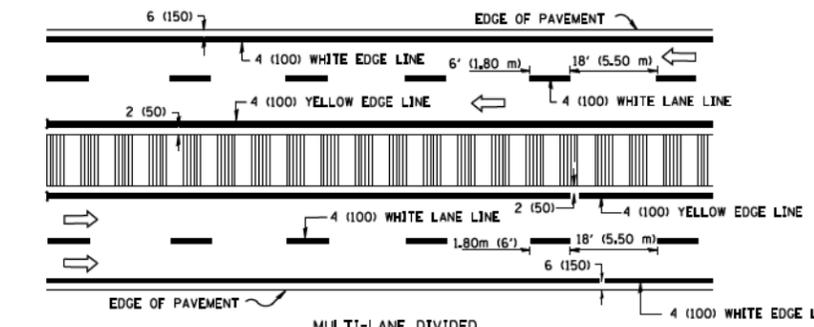
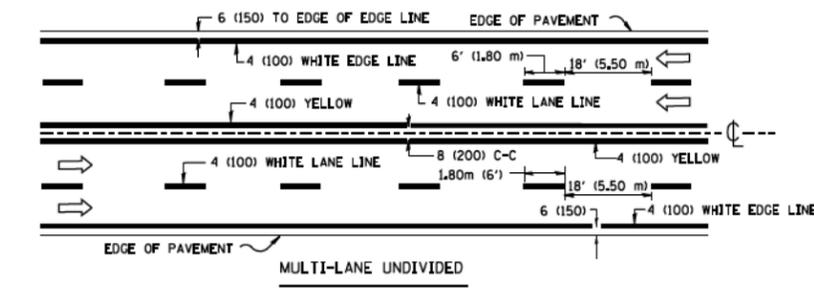
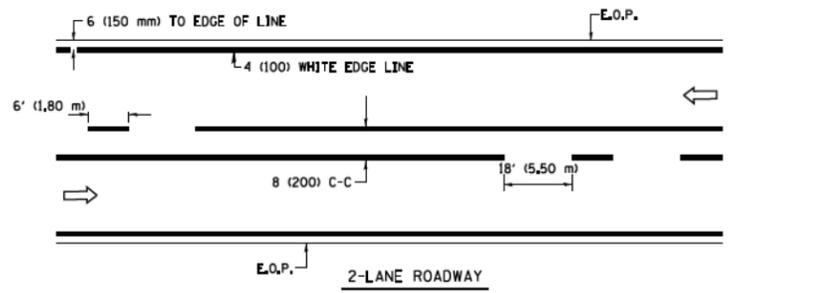
FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglanoht	DESIGNED - DRAWN -	REVISED - R. MIRS 09-15-97 REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

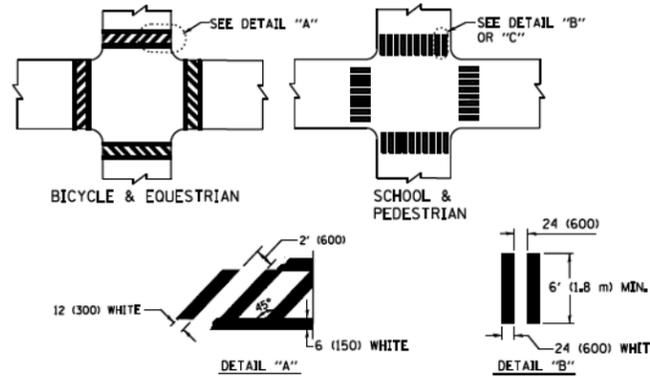
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. I. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 237
TC-22		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

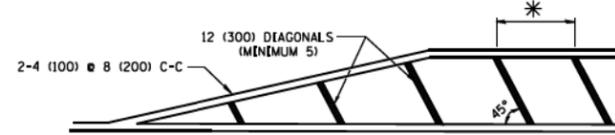


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

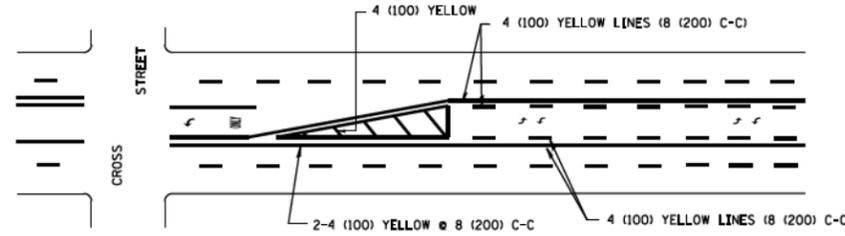


TYPICAL CROSSWALK MARKING

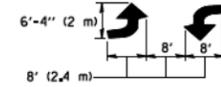


\* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
 \* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

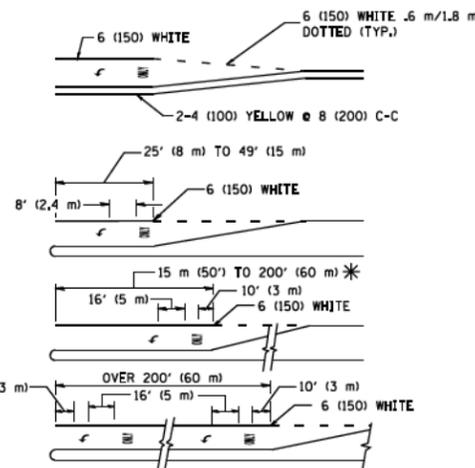


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

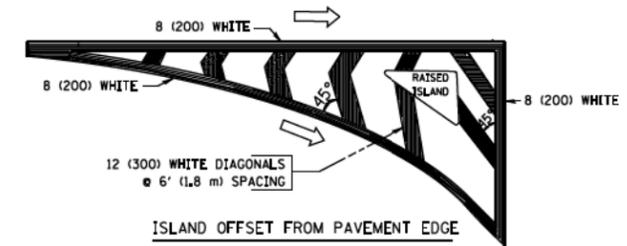
TYPICAL PAINTED MEDIAN MARKING



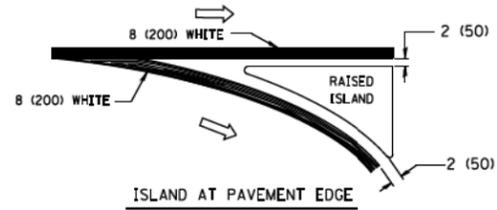
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.8 SQ. FT. (1.47 m<sup>2</sup>) AREA = 22.9 SQ. FT. (2.13 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "R" = 3.6 SQ. FT. (0.33m <sup>2</sup> ) EACH "X" = 54.0 SQ. FT. (5.0 m <sup>2</sup> )

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

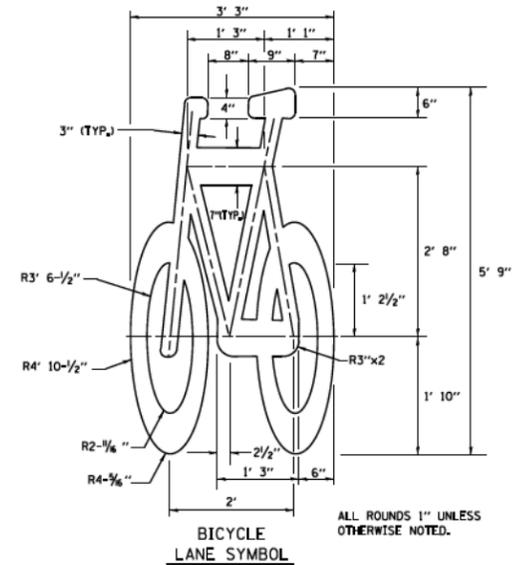
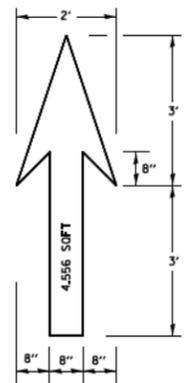
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/1/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

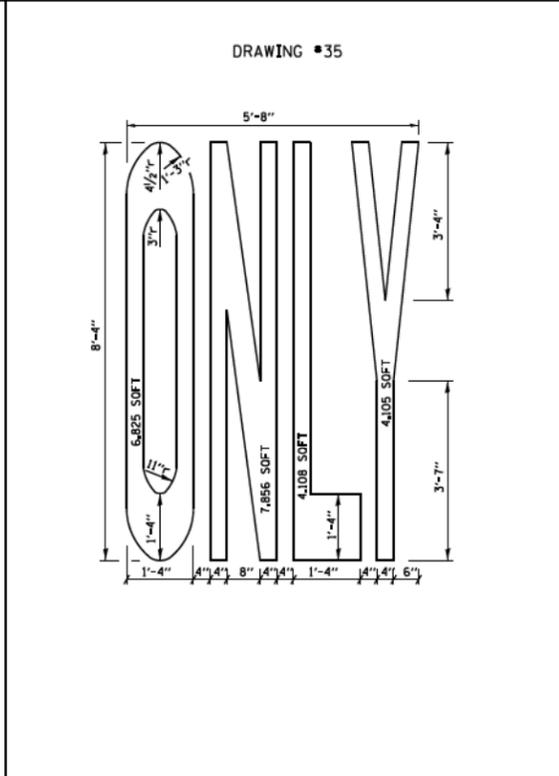
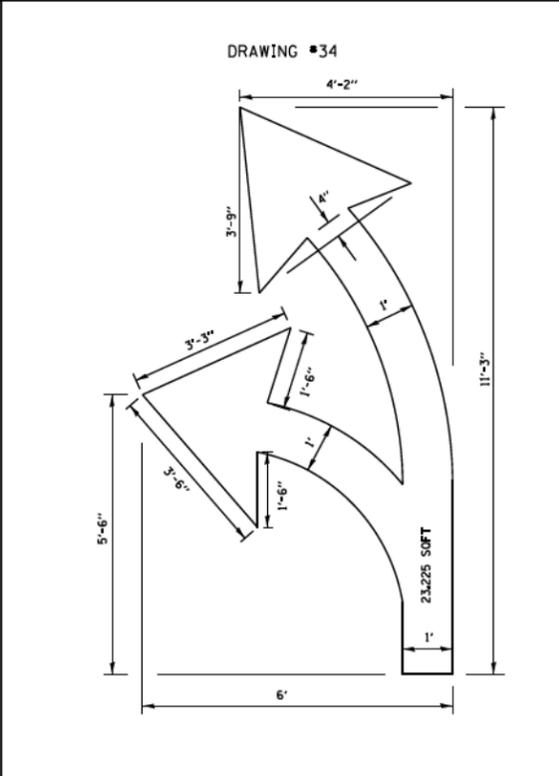
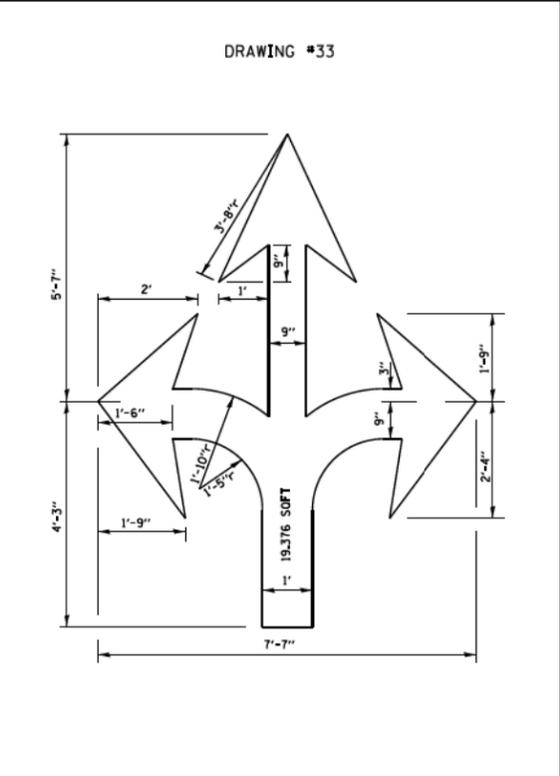
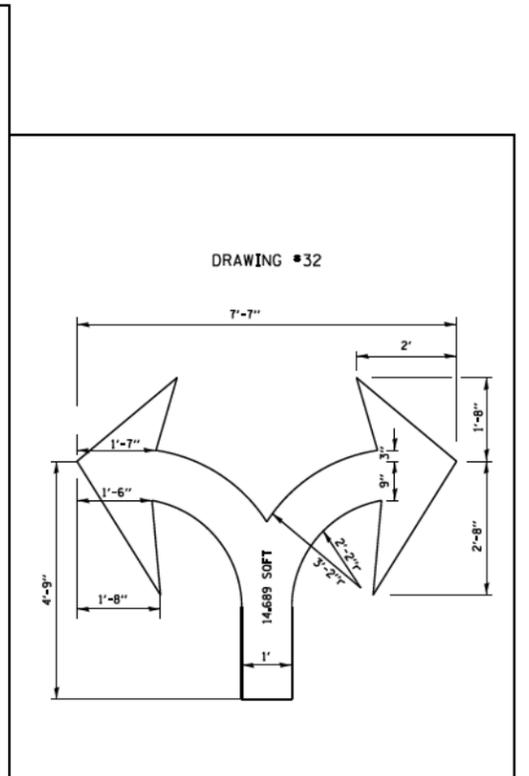
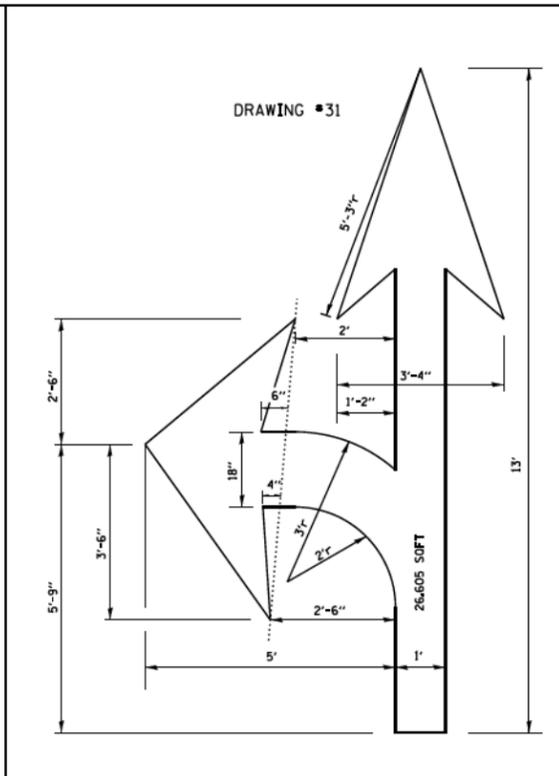
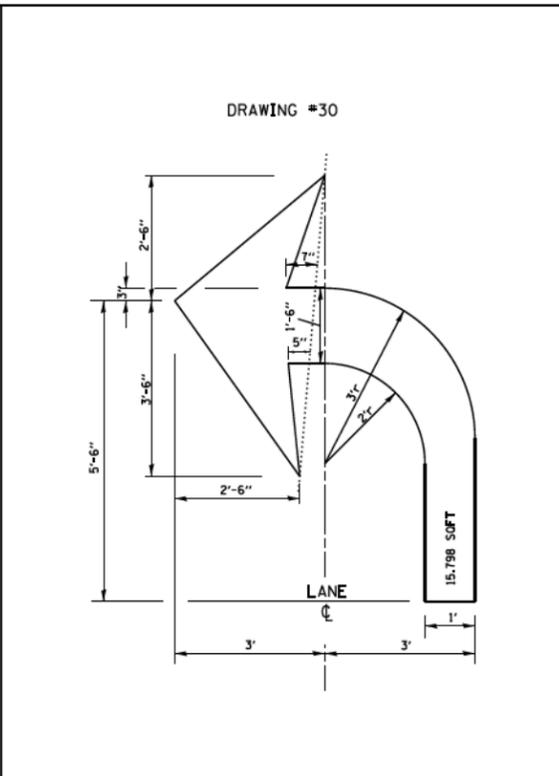
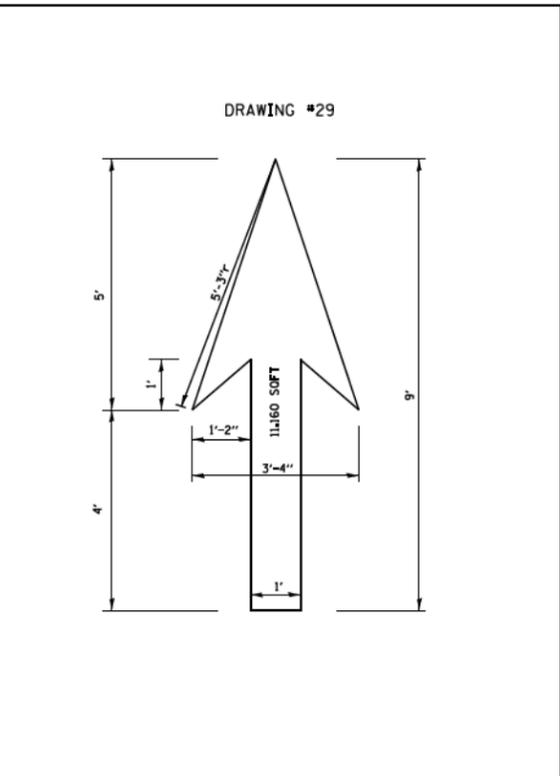
CITY OF CHICAGO  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	F.A. I. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 238
			TC-24		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



**NOTE:**  
 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.  
 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS  
 DRAWING #28



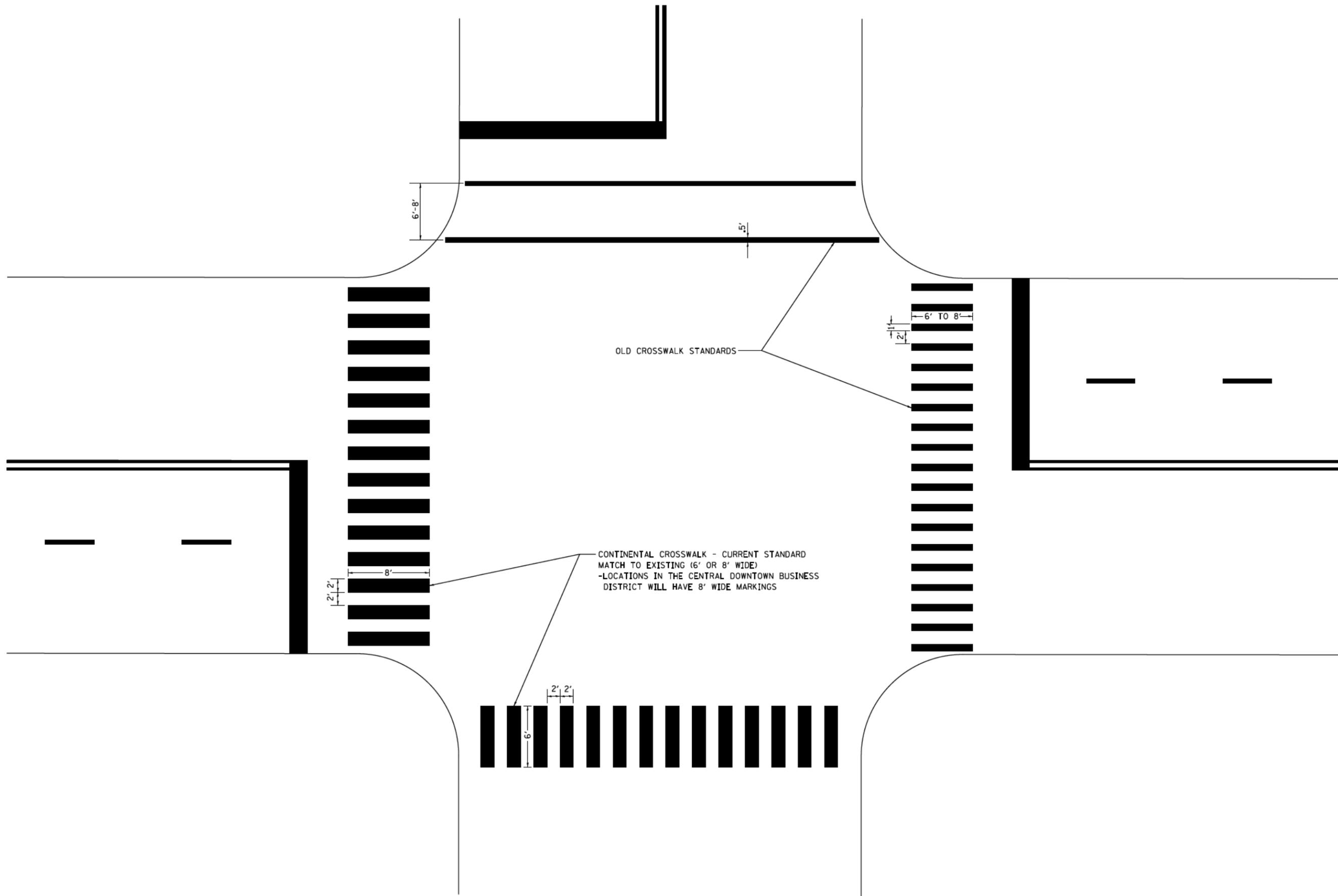
**NOTE:**  
 ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

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	PLOT SCALE = 58.800' / 1"	CHECKED -	REVISED -
	PLOT DATE = 3/29/2012	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/230	2015-080R&B	COOK	250	239
TC-24		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



OLD CROSSWALK STANDARDS

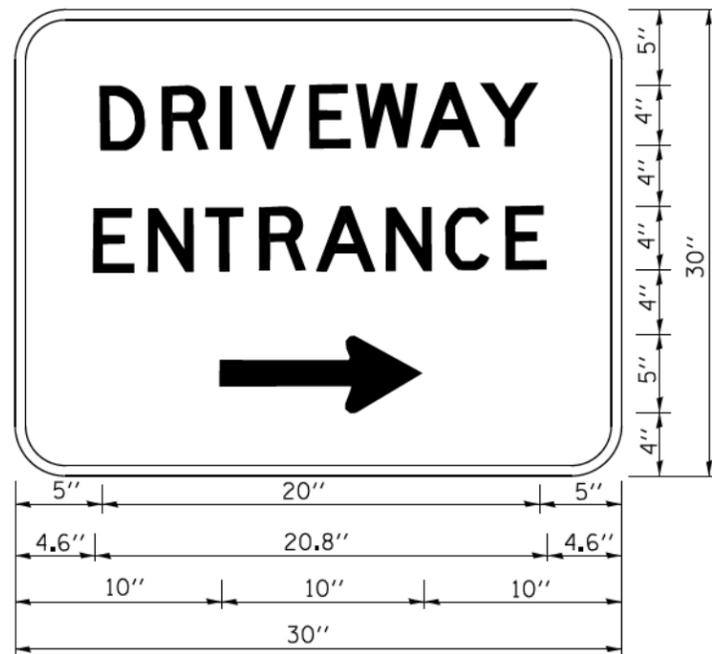
CONTINENTAL CROSSWALK - CURRENT STANDARD  
 MATCH TO EXISTING (6' OR 8' WIDE)  
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS  
 DISTRICT WILL HAVE 8' WIDE MARKINGS

FILE NAME =	USER NAME = drvakosgn	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
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	PLOT DATE = 3/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CITY OF CHICAGO</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A.I. RTE. 90/94/230	SECTION 2015-080R&B	COUNTY COOK	TOTAL SHEETS 250	SHEET NO. 240
<b>TC-24</b>		CONTRACT NO. 62B76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

**NOTES:**

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

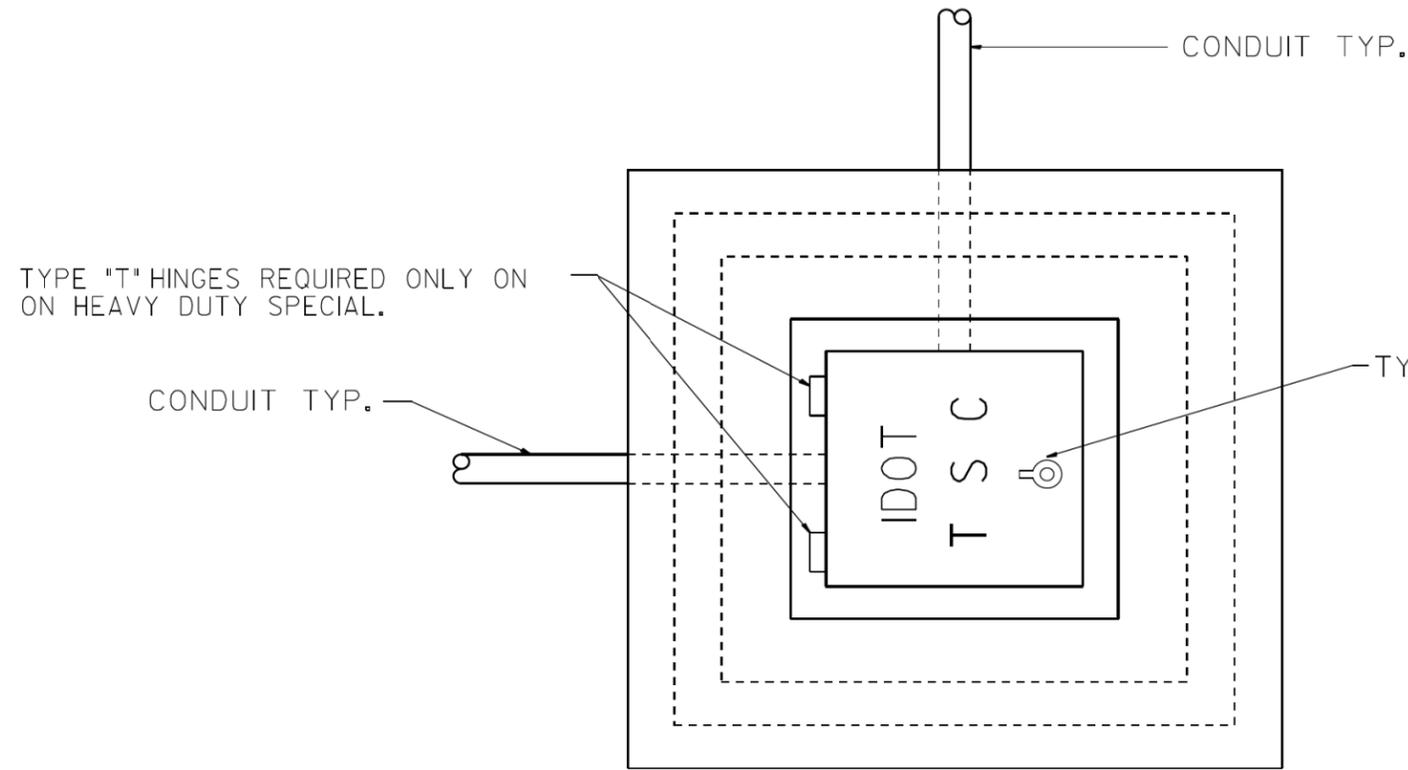
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	PLOT SCALE = 50.000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

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

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/230	2015-080R&B	COOK	250	241
TC-26			CONTRACT NO. 62B76	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

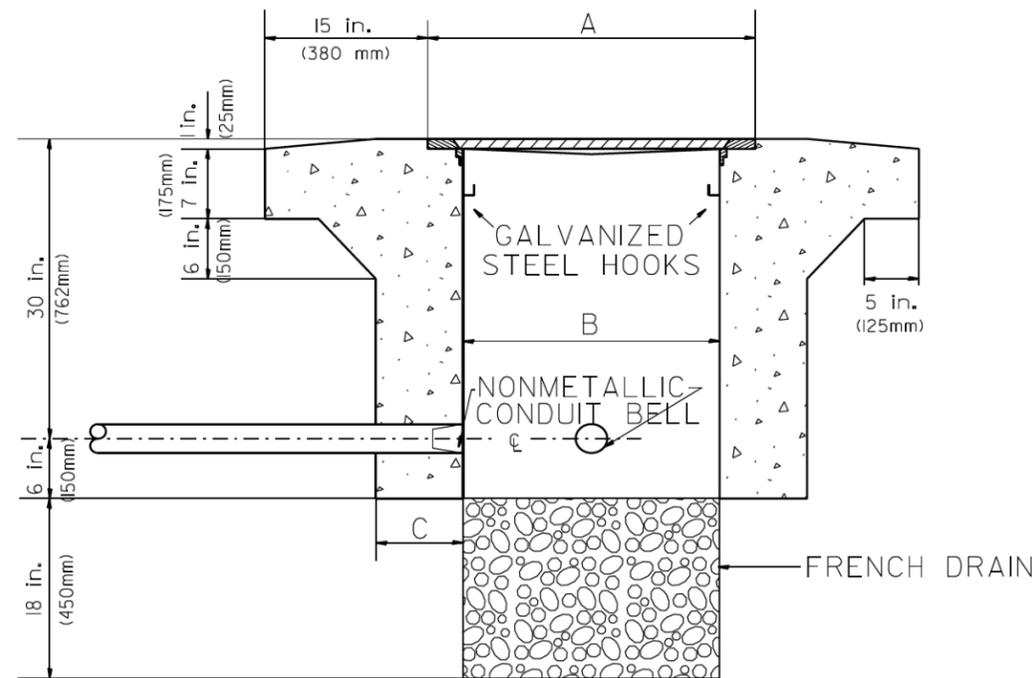


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



ELEVATION

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

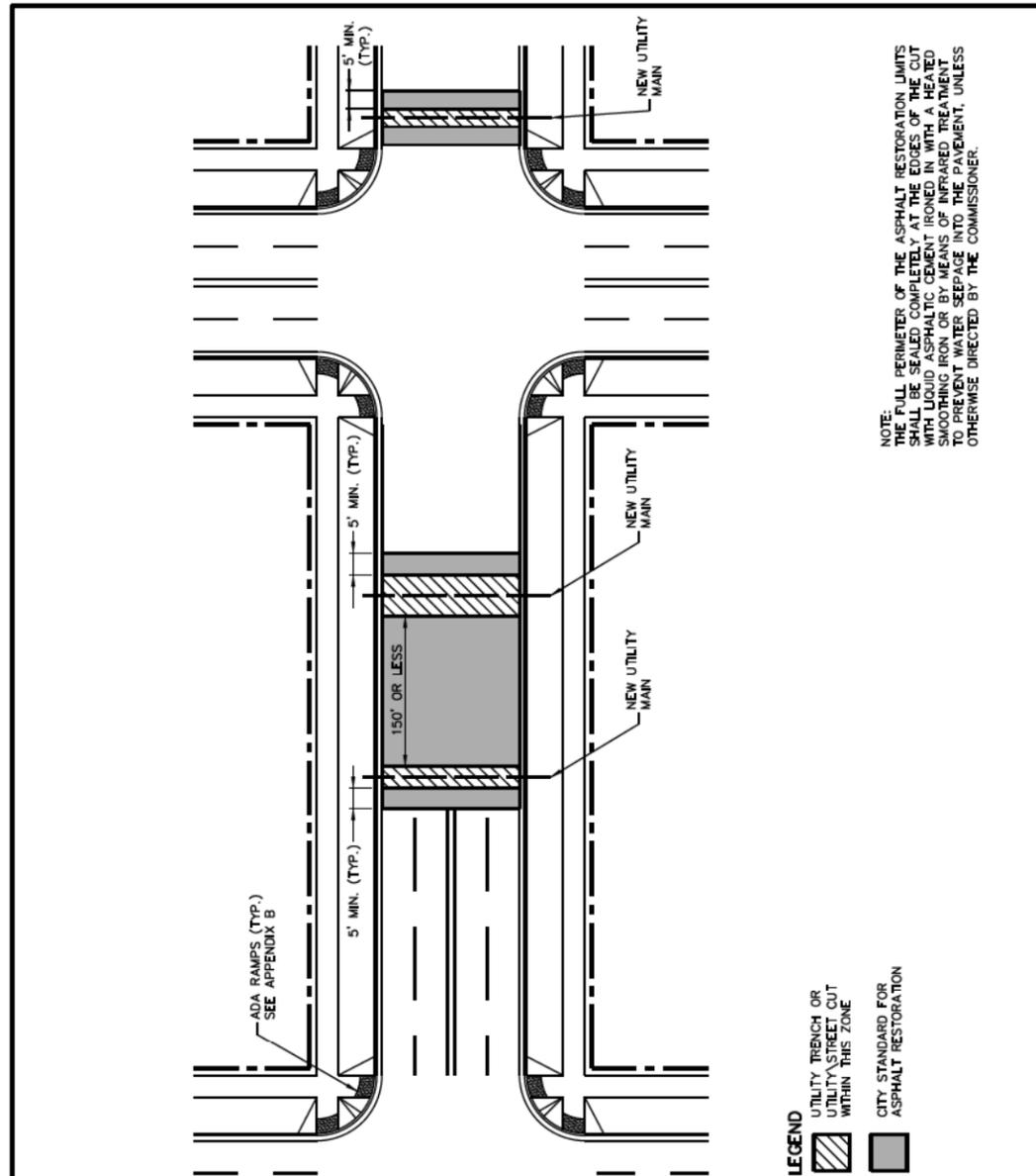
A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

(FRAME AND COVER 405 LBS. (184 Kg. (405))

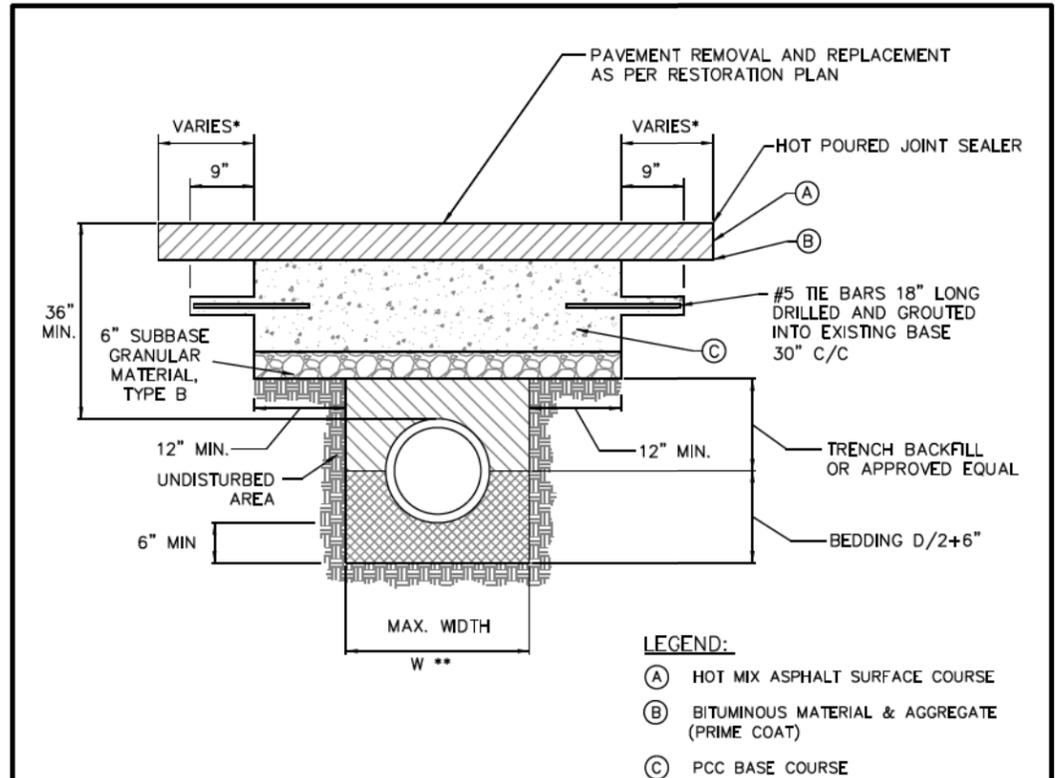
PC CONCRETE - HEAVY DUTY HAND HOLE

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#FILEL#		DRAWN - G.N.	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
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		DATE - 09/11/96	REVISED -										

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 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
			STREET CUTS AND ASPHALT RESTORATION REQUIREMENTS		
	1/1/14		DATE	SHEET	DRAWN BY
			1/1/14	A-2-1G	CDOT



- \* PAVEMENT SHALL BE REMOVED & REPAVED TO NEAREST CONSTRUCTION JOINT IF TRENCH EDGE IS 5' OR LESS FROM JOINT. (OR AS REQUIRED BY THE COMMISSIONER)
- \*\* W = 9" + O.D. + 9", WHEN TRENCH DEPTH ≤ 5 FT.  
 W = 18" + O.D. + 18", WHEN TRENCH DEPTH > 5 FT.

- NOTES:
1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 8" OR MORE (SEE TABLE 4.2-2 FOR REQUIRED THICKNESS). FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1'-0" OVERLAP) AND FINISHED AS REQUIRED IN THE IDOT SSRBC.
  2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON BOTH SIDES OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
  3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.
  4. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	STREET PAVEMENT RESTORATION DETAIL WITH TRENCH BACKFILL		
			DATE	SHEET	DRAWN BY
			12/12/06	A-2-2A	CDOT



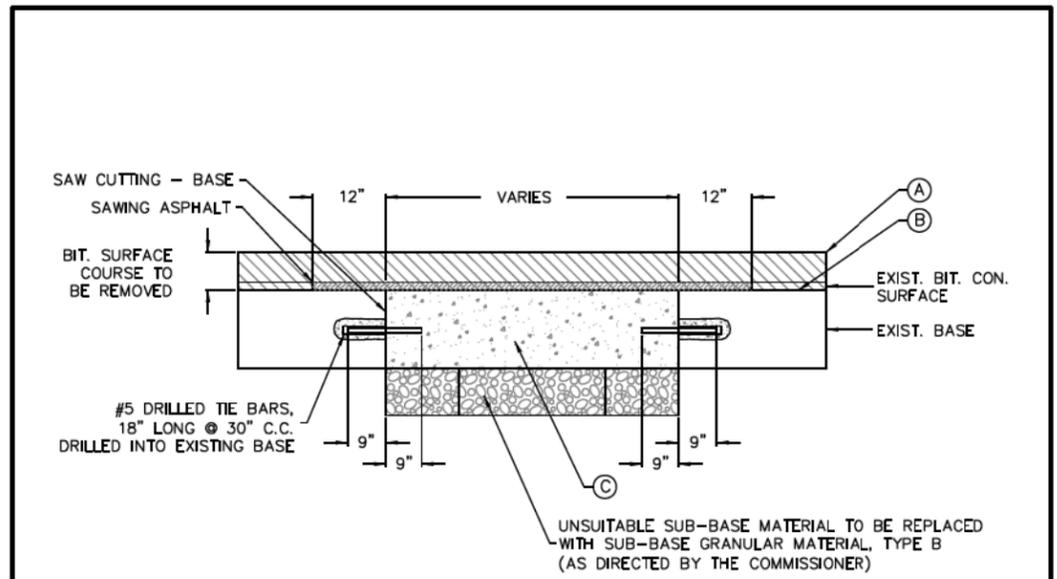
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PLOT DATE = 5/6/2016	DATE -	5/6/2016	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 1 OF 8 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	243
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				

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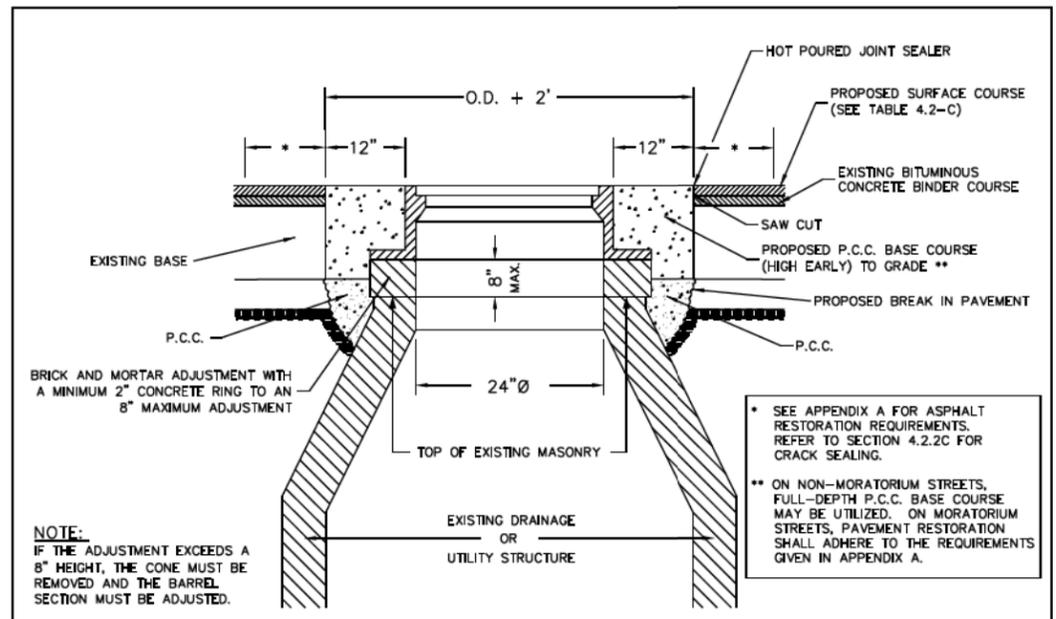
- LEGEND:**
- (A) HOT MIX ASPHALT SURFACE COURSE
  - (B) BITUMINOUS MATERIAL & AGGREGATE (PRIME COAT)
  - (C) P.C. CONCRETE BASE COURSE\*

\* SEE TABLE 4.2-2 FOR REQUIRED THICKNESS OF P.C.C. BASE COURSE

**NOTES:**

1. THE PORTLAND CEMENT CONCRETE BASE SHALL BE 8" OR MORE (SEE TABLE 4.2-2 FOR REQUIRED THICKNESS). FOR CONCRETE STREETS THE CONCRETE SHALL BE BROUGHT TO GRADE (INCLUDING 1'-0" OVERLAP) AND FINISHED AS REQUIRED IN THE IDOT SSRBC.
2. ALL EXISTING PAVEMENTS SHALL BE SAW CUT 1'-0" ON BOTH SIDES OF THE TRENCH OR PAVEMENT OPENING. UNDER NO CIRCUMSTANCES SHOULD EXISTING PAVEMENT, WHICH HAS BEEN UNDERMINED OR OTHERWISE DISTURBED, BE LEFT IN PLACE AND NOT RESTORED.
3. ALL STREET PAVEMENT WILL REQUIRE PLACEMENT OF #5 TIE BARS, 18 INCHES LONG DRILLED AND GROUTED (NON SHRINK) AT 30" CENTERS ON ALL SIDES. A MINIMUM OF TWO TIE BARS WILL BE REQUIRED ON EACH SIDE OF SAW CUT BOUNDARIES.
4. ALL TIE BARS AND DOWEL BARS ARE TO BE EPOXY COATED (INCIDENTAL).

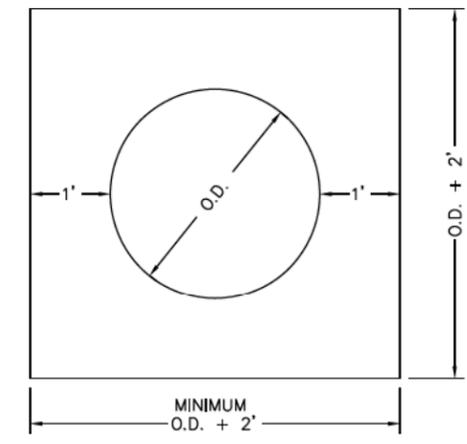
<b>CDOT</b> CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	PAVEMENT PATCHING AND PORTLAND CEMENT CONCRETE REPLACEMENT		
			DATE	SHEET	DRAWN BY
			01/11/07	A-2-2C	CDOT



**NOTE:**  
IF THE ADJUSTMENT EXCEEDS A 8" HEIGHT, THE CONE MUST BE REMOVED AND THE BARREL SECTION MUST BE ADJUSTED.

- \* SEE APPENDIX A FOR ASPHALT RESTORATION REQUIREMENTS. REFER TO SECTION 4.2.2C FOR CRACK SEALING.
- \*\* ON NON-MORATORIUM STREETS, FULL-DEPTH P.C.C. BASE COURSE MAY BE UTILIZED. ON MORATORIUM STREETS, PAVEMENT RESTORATION SHALL ADHERE TO THE REQUIREMENTS GIVEN IN APPENDIX A.

**PLAN VIEW (BASE TO GRADE)**



**MANHOLE COVER FRONT VIEW**



<b>CDOT</b> CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	FRAME ADJUSTMENT IN PAVEMENT		
			DATE	SHEET	DRAWN BY
			12/22/06	A-2-12	CDOT



D162676-Sht-CDOT-DETAIL-02.dgn	DESIGNED -	CDOT	REVISED -	
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

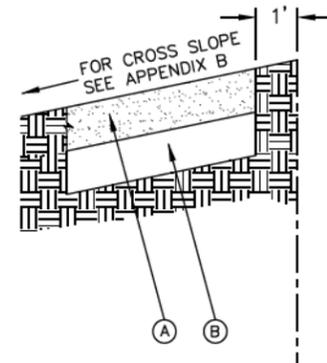
<b>CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS</b>			
SCALE: N.T.S.	SHEET 2 OF 8 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	244
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				

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DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	ADA COMPLIANT SIDEWALK CONSTRUCTION DETAILS		
DATE	SHEET	DRAWN BY		
12/20/06	A-3-1	CDOT		

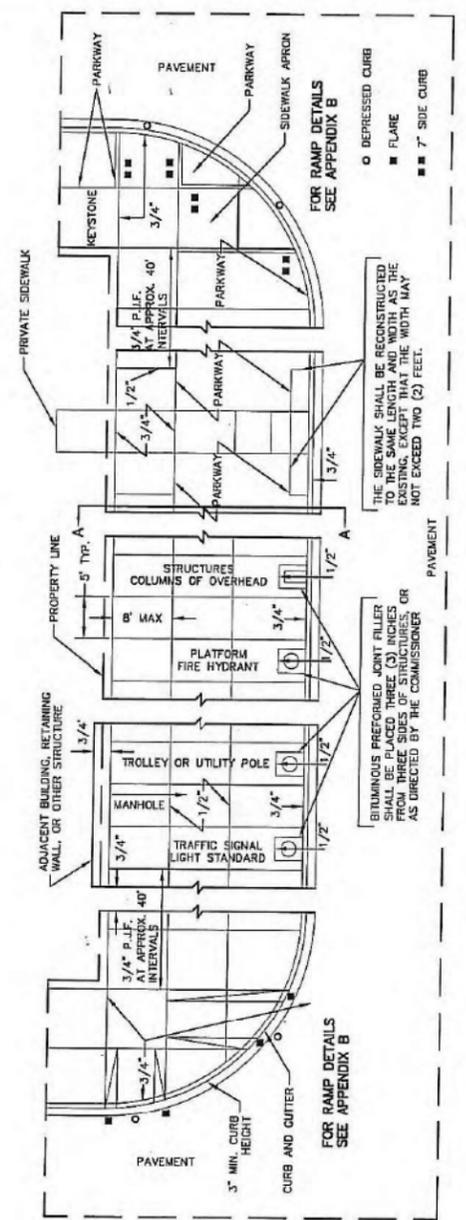


- LEGEND:**
- (A) PROPOSED 5" P.C.C. SIDEWALK \*
  - (B) SUBBASE GRANULAR MATERIAL, TYPE B OR C, 4"
- \* CURB RAMP & KEYSTONE 8" P.C.C. AT SIGNALIZED AND INDUSTRIAL STREET INTERSECTIONS



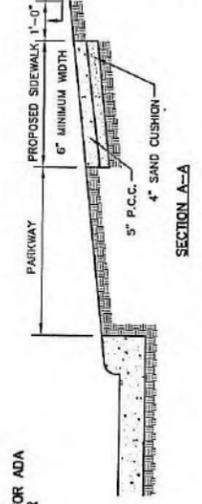
DATE	REVISION	CITY OF CHICAGO		
-	-	P.C. CONCRETE SIDEWALK JOINT DETAILS		
DATE	SHEET	DRAWN BY		
12/22/06	A-3-2	CDOT		

**DETAILS OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION**



RAMPS FOR THE DISABLED WILL BE CONSTRUCTED AT ALL SIGNALIZED INTERSECTIONS. SEE RAMPED SIDEWALK DETAIL.

SIDEWALKS TO BE REPLACED WILL BE CONSTRUCTED WITH THE SAME THICKNESS AS THE EXISTING SIDEWALKS. NEW SIDEWALKS WILL BE CONSTRUCTED ON A 4" SAND CUSHION.



\* THE 1/2" AND 3/4" DIMENSIONS REFER TO THE THICKNESS OF THE BITUMINOUS PREFORMED JOINT FILLER REQUIRED AT THE VARIOUS LOCATIONS.



D162676-Sht-CDOT-DETAIL-03.dgn	DESIGNED - CDOT	REVISED -
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PLOT DATE = 5/6/2016	DATE - 5/6/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION  
STANDARDS

SCALE: N.T.S. SHEET 3 OF 8 SHEETS STA. TO STA.

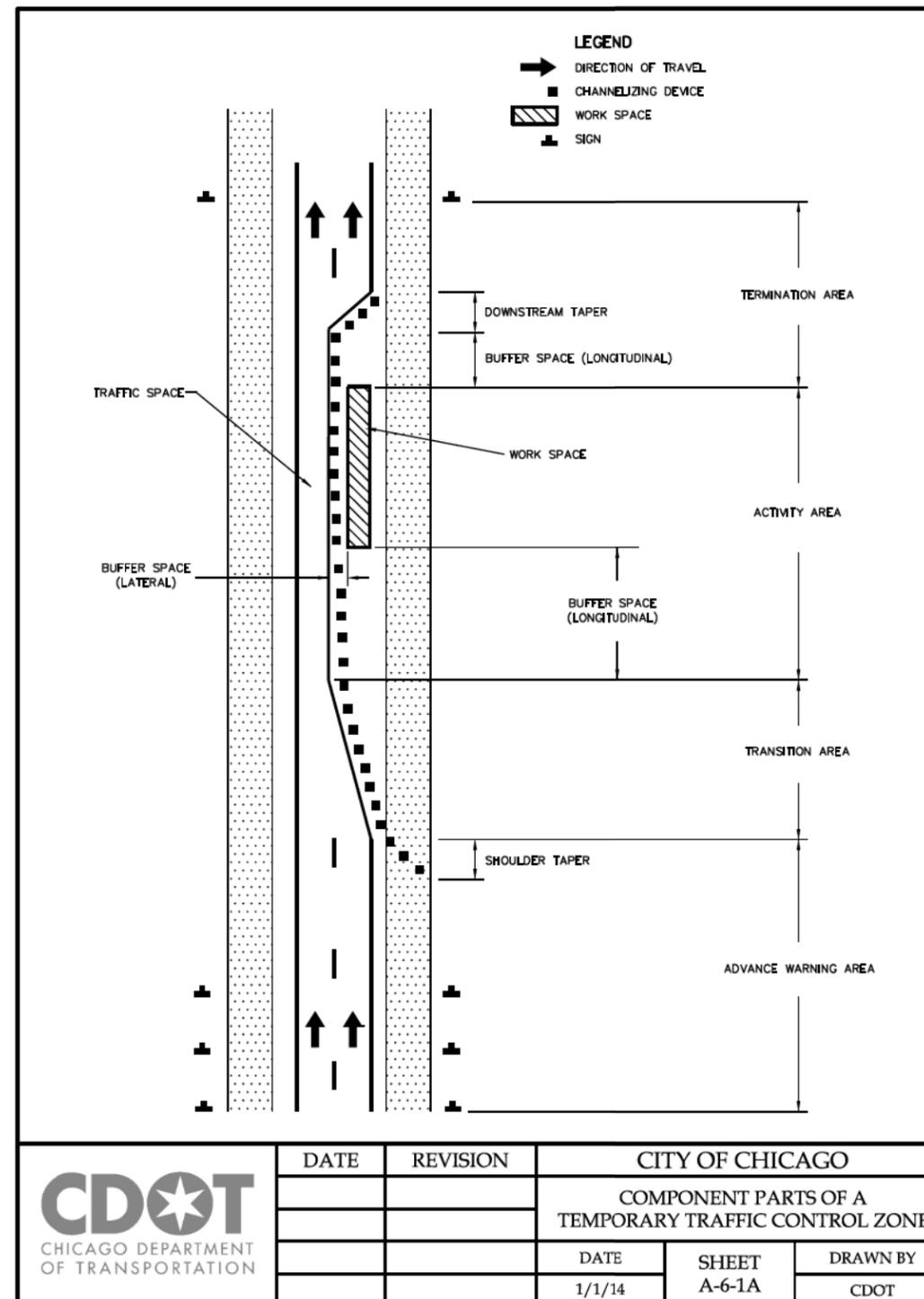
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	245
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				

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For standard details see Regulations of Sewer Construction and Stormwater Management:  
[http://www.cityofchicago.org/city/en/depts/water/provdrs/engineer/svcs/2009\\_sewer\\_constructionandstormwatermanagementrequirements.html](http://www.cityofchicago.org/city/en/depts/water/provdrs/engineer/svcs/2009_sewer_constructionandstormwatermanagementrequirements.html)



DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	SEWER CONSTRUCTION AND STORMWATER MANAGEMENT REQUIREMENTS		
		DATE	SHEET	DRAWN BY
		12/28/06	A-4-1	CDOT



DATE	REVISION	CITY OF CHICAGO		
		COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL ZONE		
		DATE	SHEET	DRAWN BY
		1/1/14	A-6-1A	CDOT



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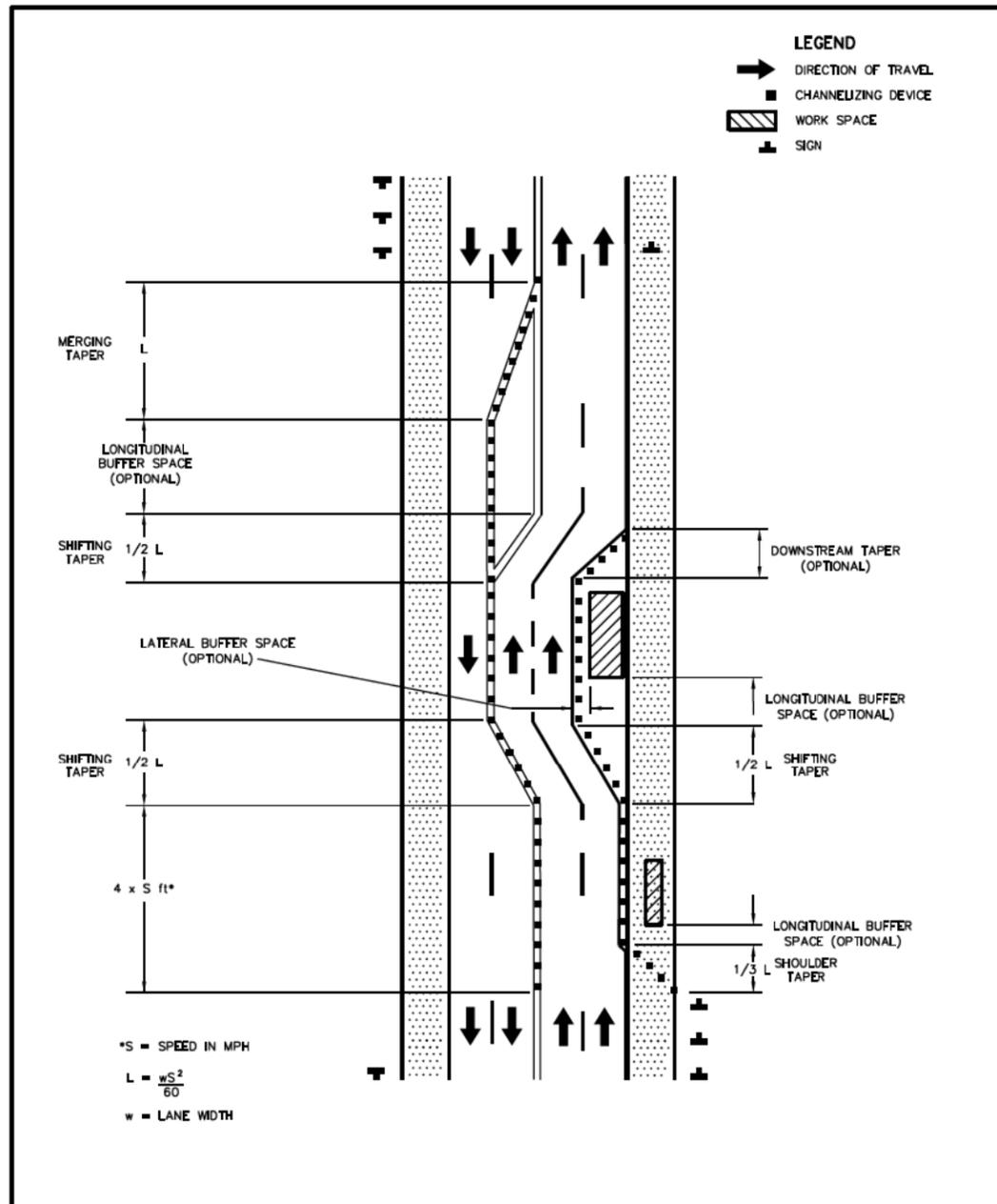
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION  
STANDARDS

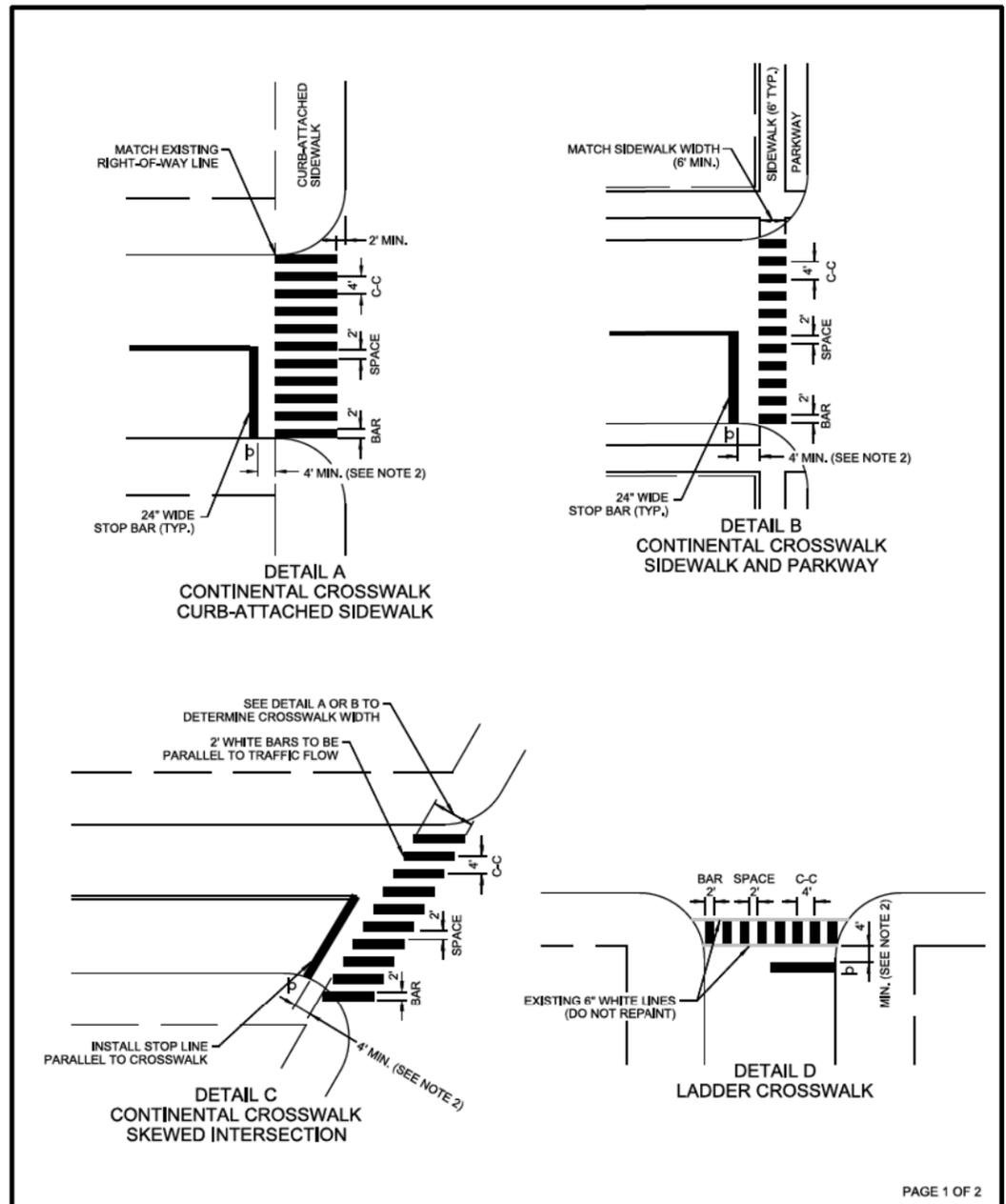
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	246
				CONTRACT NO. 62B76
ILLINOIS FED. AID PROJECT				

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 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
			COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL ZONE		
	DATE	SHEET	DRAWN BY		
	1/1/14	A-6-1B	CDOT		



PAGE 1 OF 2

 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	CROSSWALK MARKING DETAIL		
	DATE	SHEET	DRAWN BY		
	06/25/12	A-7-1A	CDOT		



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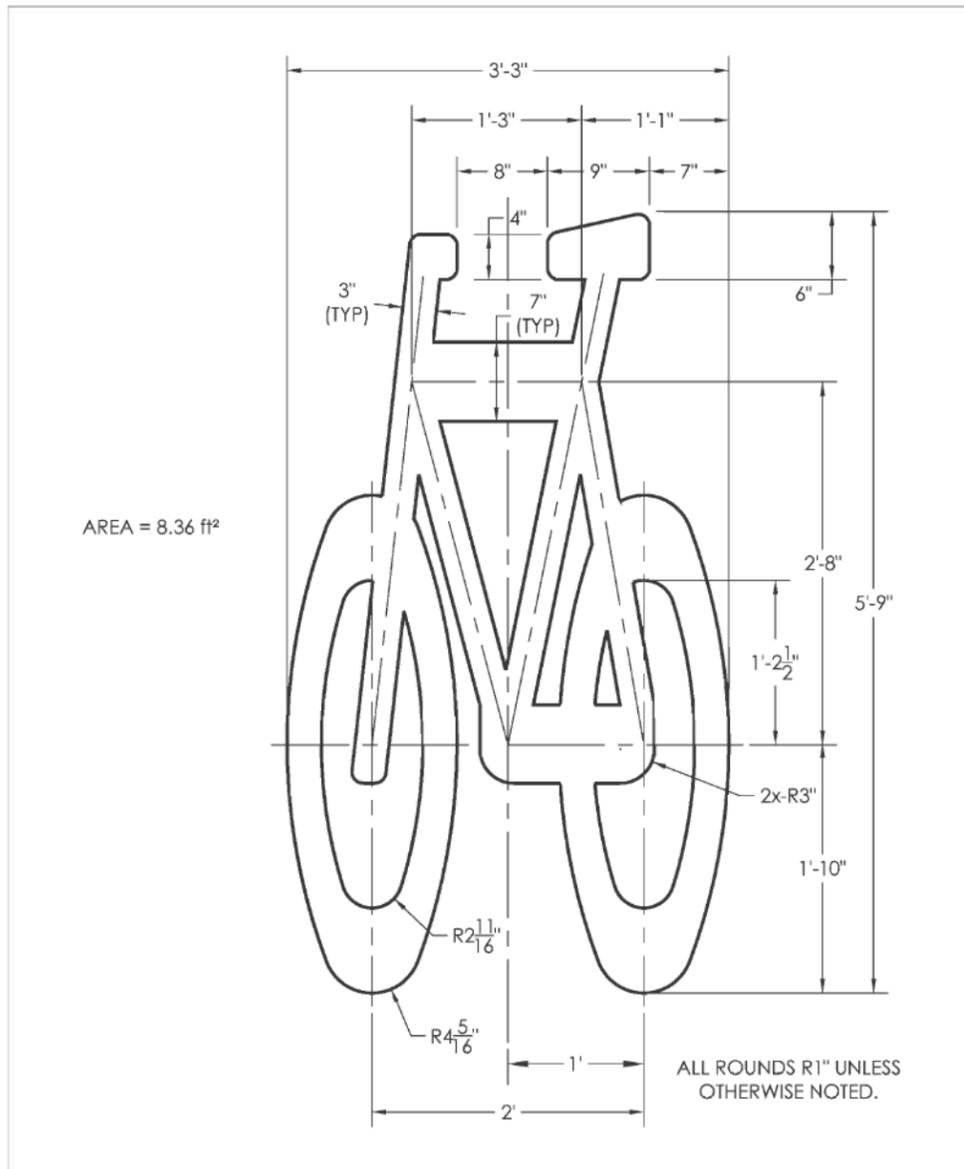
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION  
STANDARDS

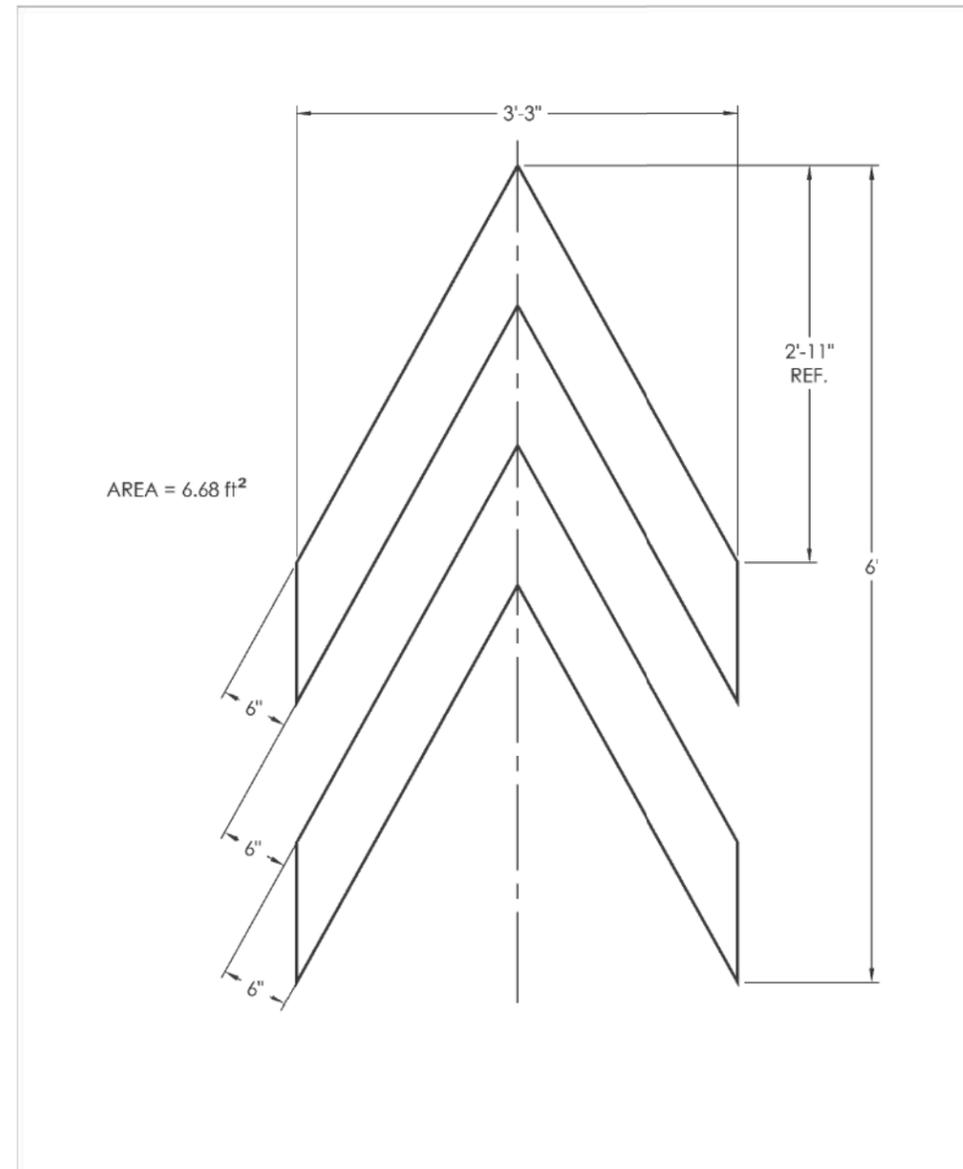
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	247
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				

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DATE	REVISION	CITY OF CHICAGO		
		6' BIKE SYMBOL		
		DATE	SHEET A-7-2	DRAWN BY
		06/25/12		CDOT



DATE	REVISION	CITY OF CHICAGO		
		BIKE CHEVRON		
		DATE	SHEET A-7-6	DRAWN BY
		06/25/12		CDOT



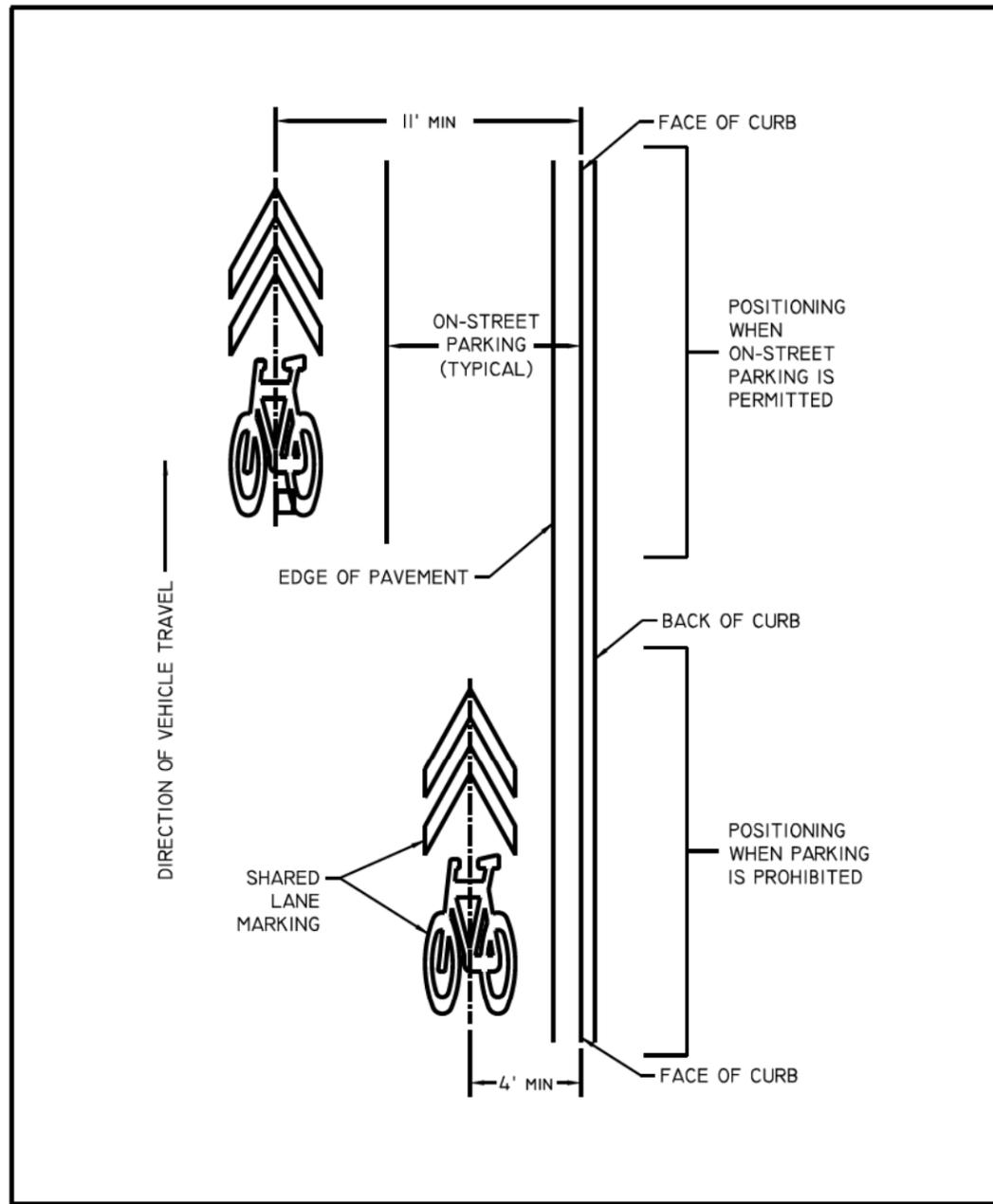
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PLOT DATE = 5/6/2016	DATE - 5/6/2016	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

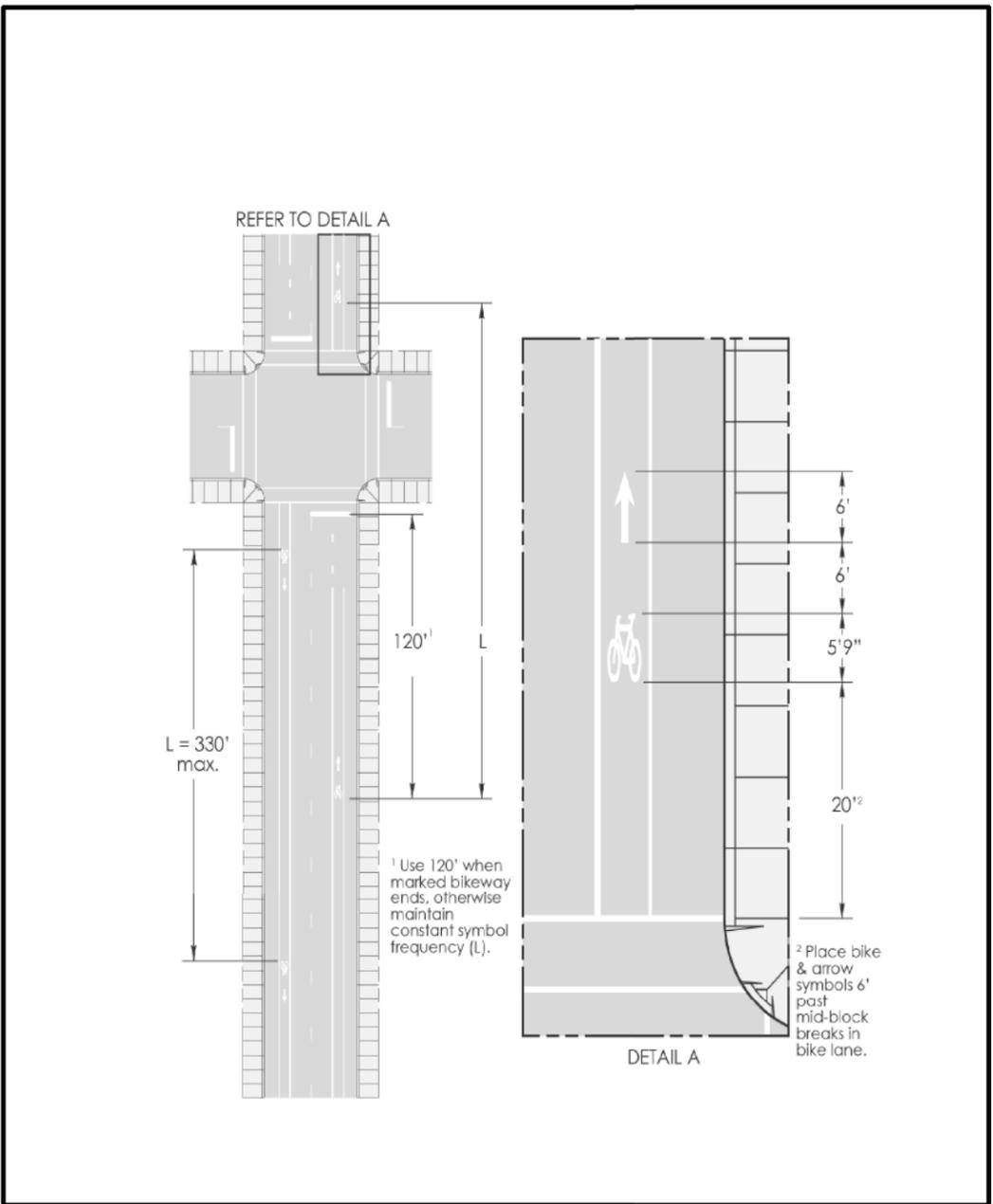
CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 6 OF 8 SHEETS	STA.	TO STA.

F.A.I. RE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	248
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\6179-PMINT\secomon\line\local\CDOT\_0502\_MN\Documents\01\_Americas\Transportation\6269938\_Circle\Phase\_11\000\_CAD\006\_Roadway\Sheets\6269938\_Contract\016269938-Sht-CDOT-DETAIL-07.dgn



 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	SHARED LANE MARKING LATERAL POSITIONING		
			DATE	SHEET	DRAWN BY
			09/15/05	A-7-8	CDOT



 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	BIKE AND ARROW SYMBOL SPACING		
			DATE	SHEET	DRAWN BY
			09/02/05	A-7-10	CDOT



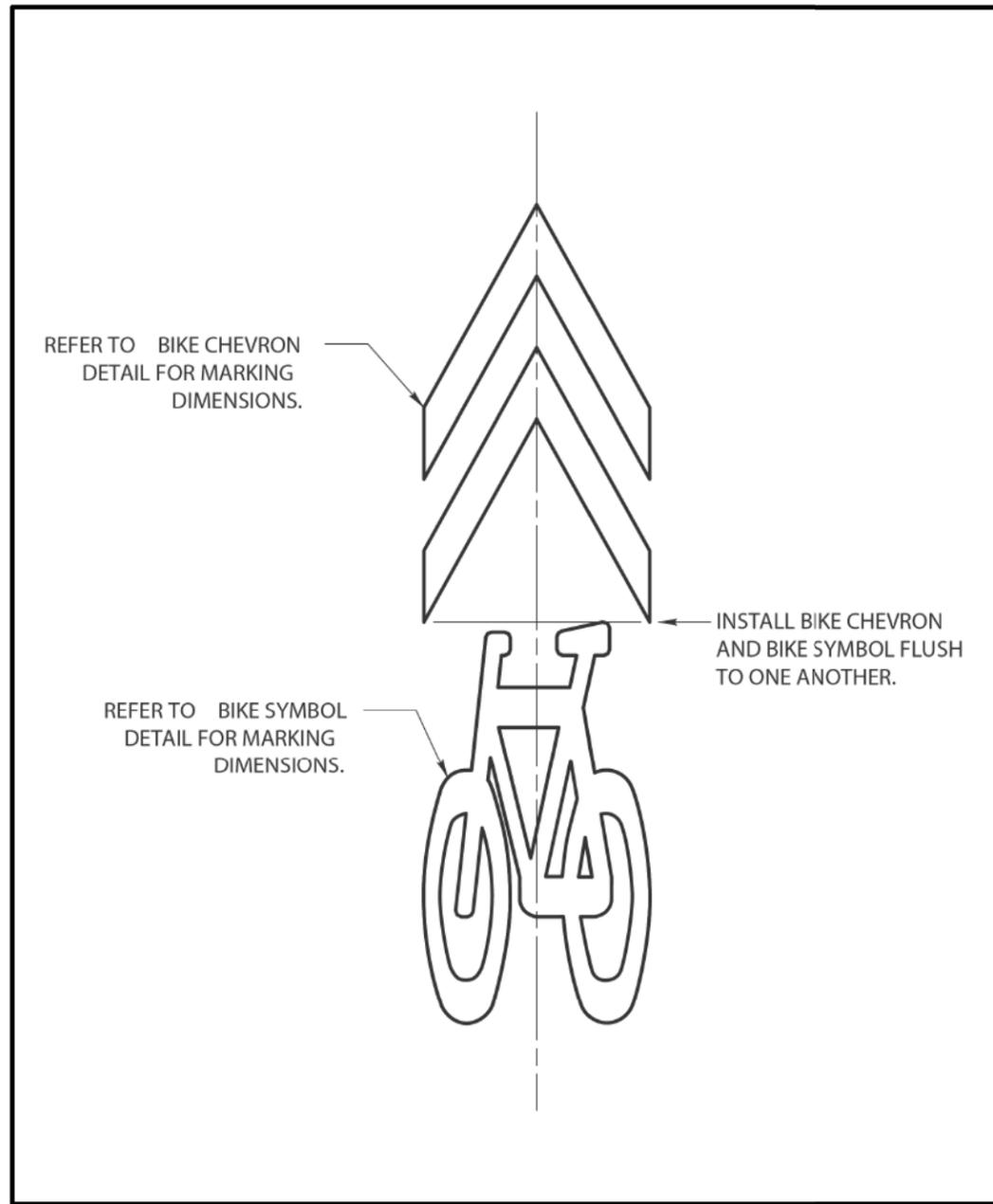
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

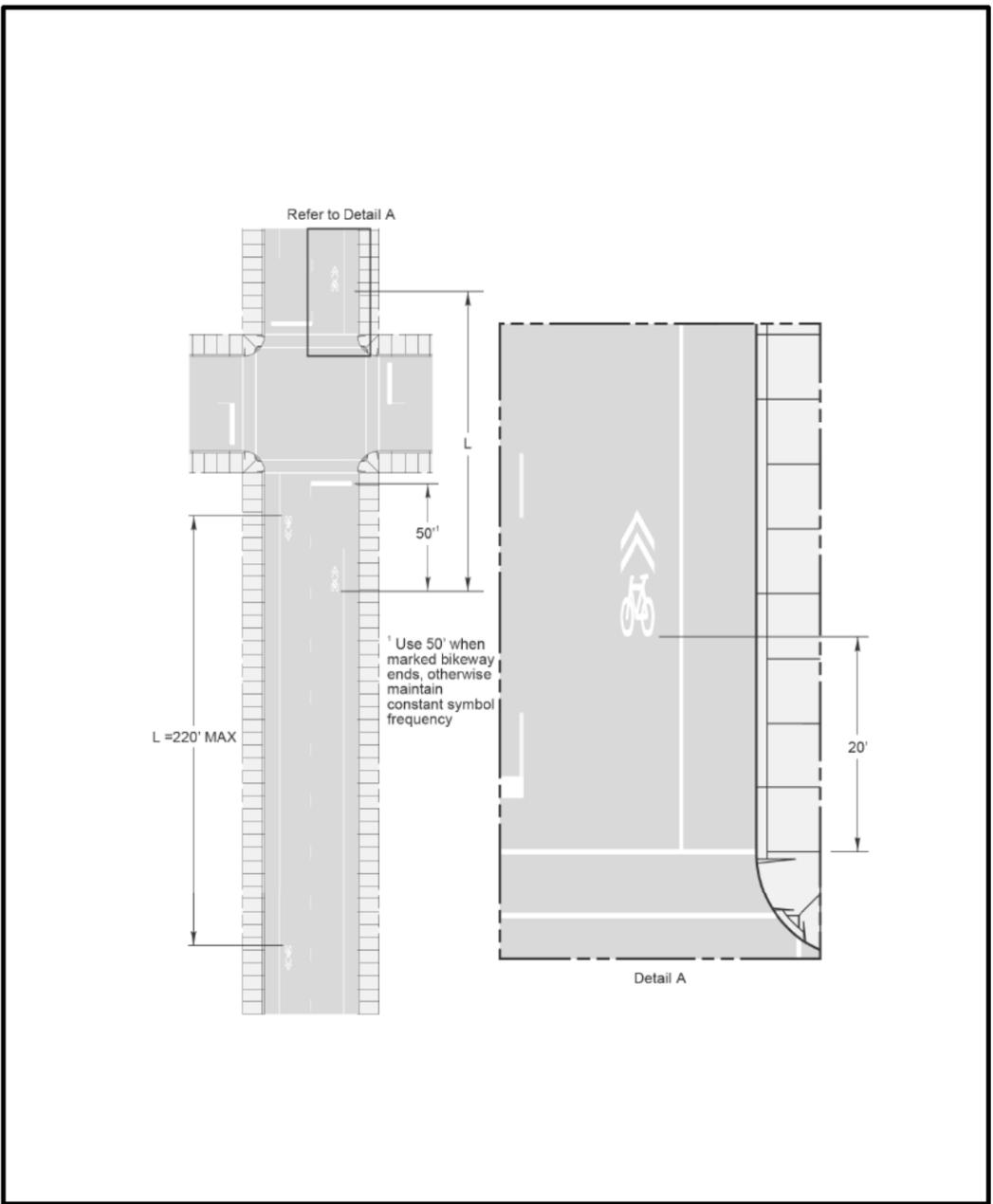
CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 7 OF 8 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	249
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				

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 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	SHARED LANE MARKING		
			DATE	SHEET	DRAWN BY
			10/02/07	A-7-11	CDOT



 CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO		
	1/1/2014	REVISION 1	SHARED LANE MARKING - LONGITUDINAL SPACING		
			DATE	SHEET	DRAWN BY
			12/12/07	A-7-12	CDOT



DI62B76-Sht-CDOT-DETAIL-08.dgn	DESIGNED -	CDOT	REVISED -	
USER NAME = BAWtor t	DRAWN -	CDOT	REVISED -	
PLOT SCALE = 2.0000' / in.	CHECKED -	CDOT	REVISED -	
PLOT DATE = 5/6/2016	DATE -	5/6/2016	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF TRANSPORTATION STANDARDS			
SCALE: N.T.S.	SHEET 8 OF 8 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-080R&B	COOK	250	250
CONTRACT NO. 62B76				
ILLINOIS FED. AID PROJECT				