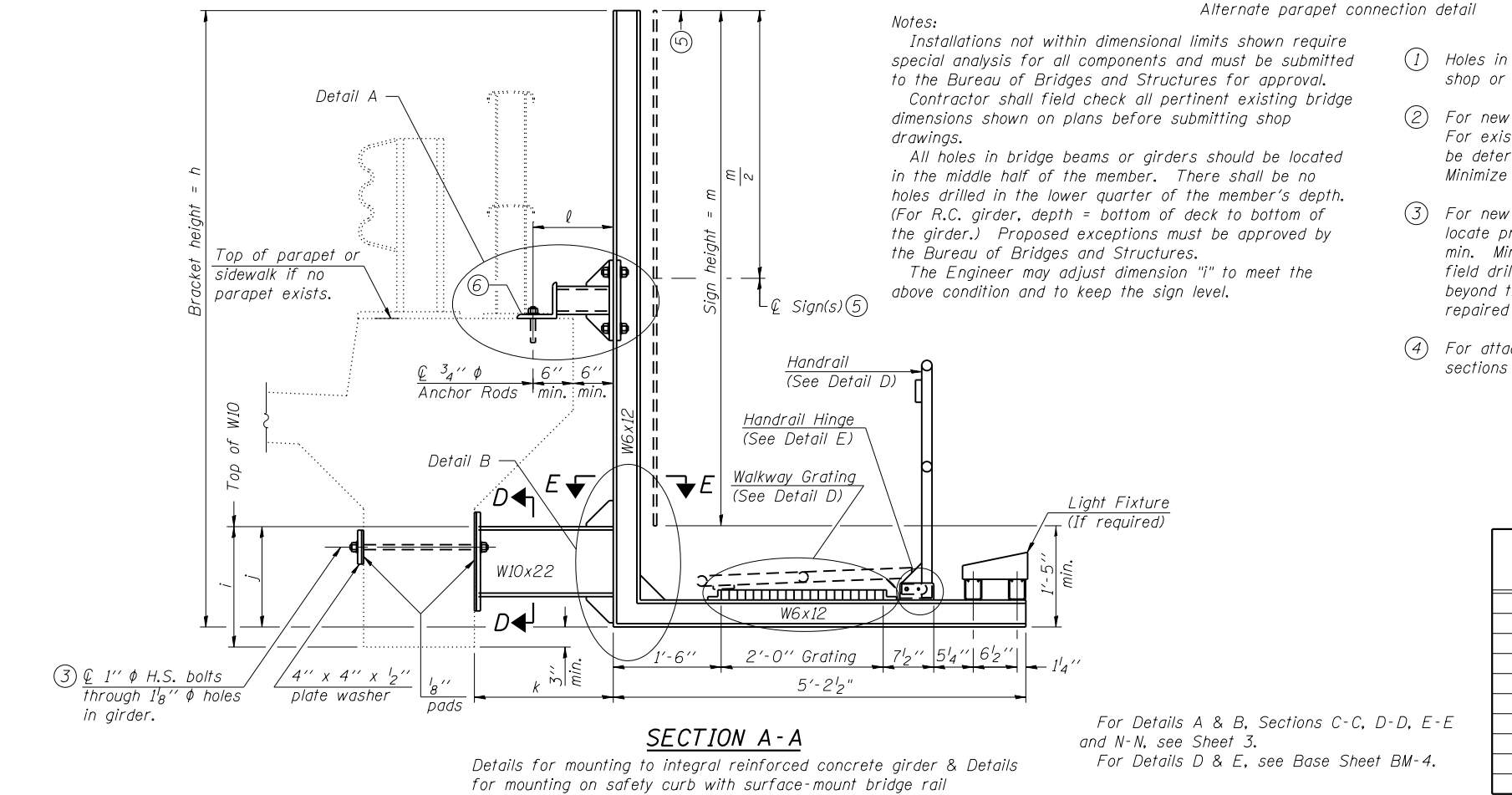


**SECTION A-A** Details for mounting to PPC I Beam or Bulb "T" & Details for mounting to parapet w/o rail

**DETAIL G** Alternate parapet connection detail



**Notes:**

Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.

All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.

The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.

② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.

③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

④ For attachment details of 3/2" pipe and W10x22, see other sections as applicable.

⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)

⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during construction that the existing railings cannot be removed, the alternate connection detail shown in Detail G may be used.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
IB0161090L079.7	26+09	10'-0"	2'-5"	1'-5"	3'-6"	1'-1"	10'-0"
IB0161090L079.2A	1000+68	14'-0"	2'-3"	1'-5"	3'-2"	1'-1"	14'-0"
IB0161090L080.7A	3094+00	8'-6"	2'-4"	1'-5"	10'-0"	7'-4 1/2"	8'-6"
IB0161090L081.3A	3121+00	8'-0"	3'-1"	1'-5"	4'-0"	1'-11 1/4"	8'-0"

For Details A & B, Sections C-C, D-D, E-E and N-N, see Sheet 3.  
For Details D & E, see Base Sheet BM-4.



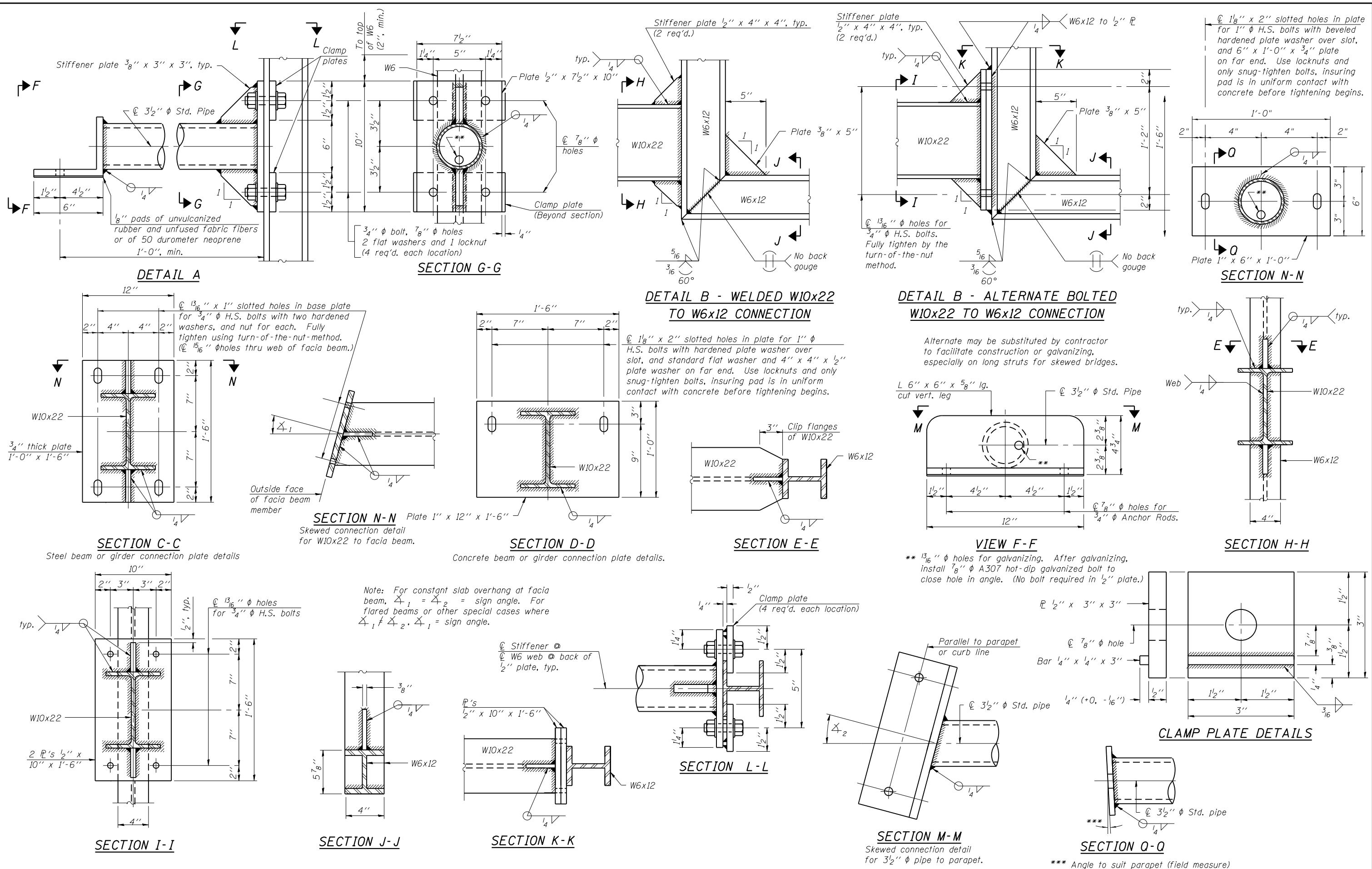
USER NAME = kelite	DESIGNED APC	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED JFA	REVISED -
PLOT DATE = 1/16/2018	DRAWN LK	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE MOUNT SIGN STRUCTURES  
WALKWAY AND CONNECTION DETAILS**

SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	301
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

**SPECIFICATIONS:**

**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") ②

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

**LOADING:** 90 M.P.H. WIND VELOCITY

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

**MINIMUM CLEARANCE:** 3" greater than bridge members at all locations. (All Obstructions)

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

**MATERIALS:** All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

**HIGH STRENGTH BOLTS:** All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

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

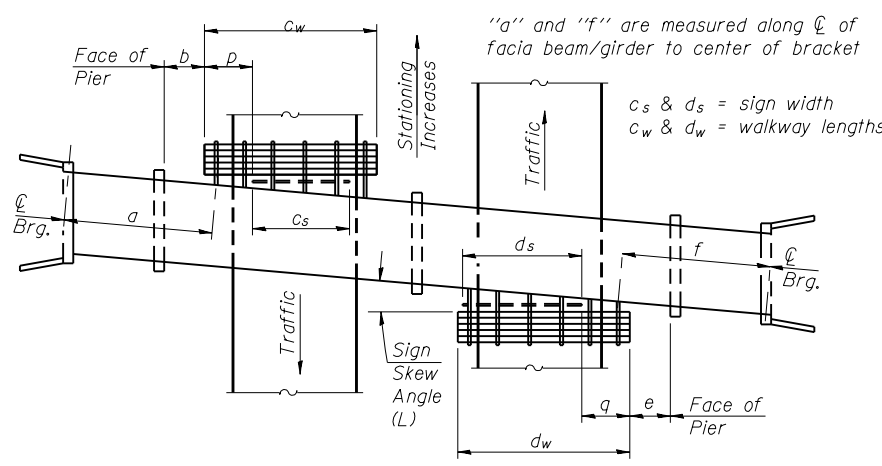
**ANCHOR RODS:** All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4"  $\phi$  x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- ① Bracket spacing  $g \leq 6'-0"$ , max. Spacing shall be uniform if possible but may vary  $\pm 6"$  to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length ( $c_w$ ,  $d_w$ ) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- ④ If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

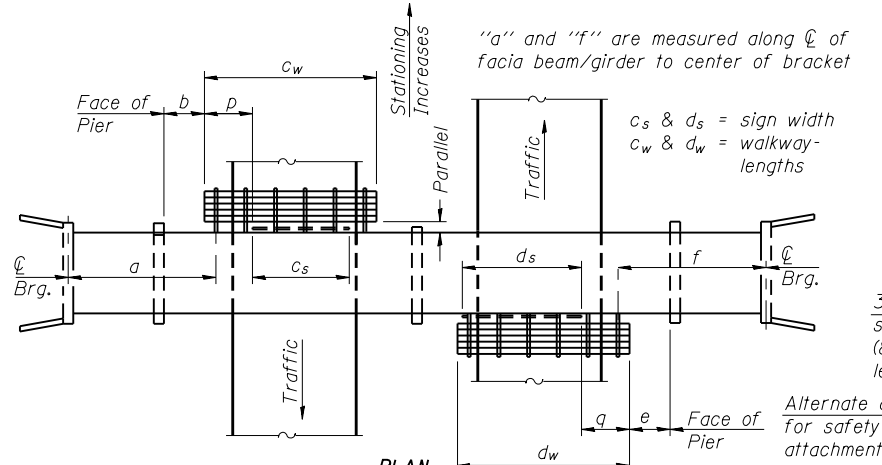
\* Sign Structure outside project limits.

**TOTAL BILL OF MATERIAL**

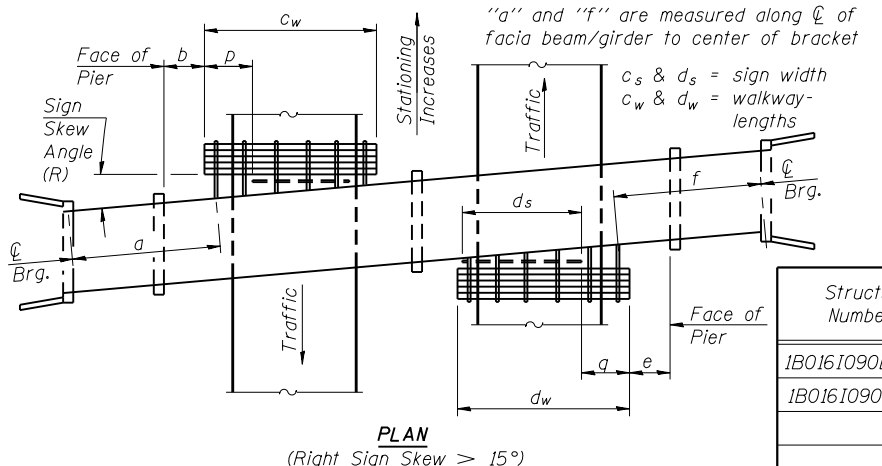
③ OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED (SPECIAL)	Foot	54
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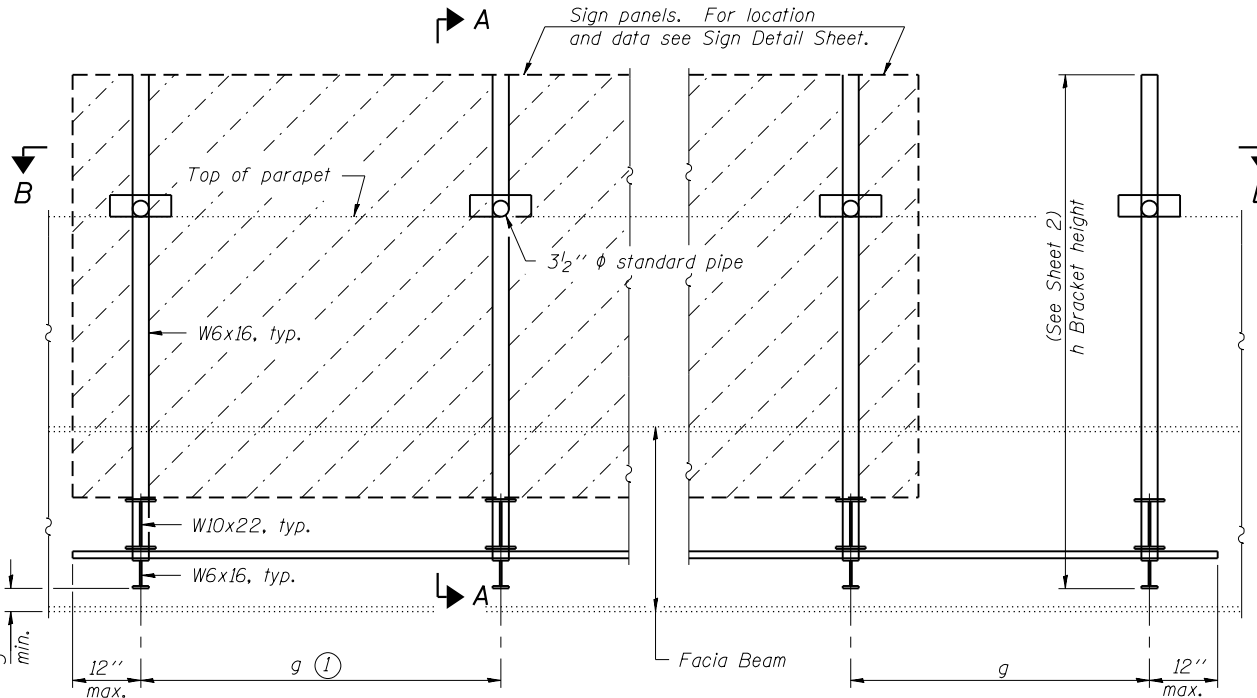
**PLAN**  
(Left Sign Skew > 15°)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



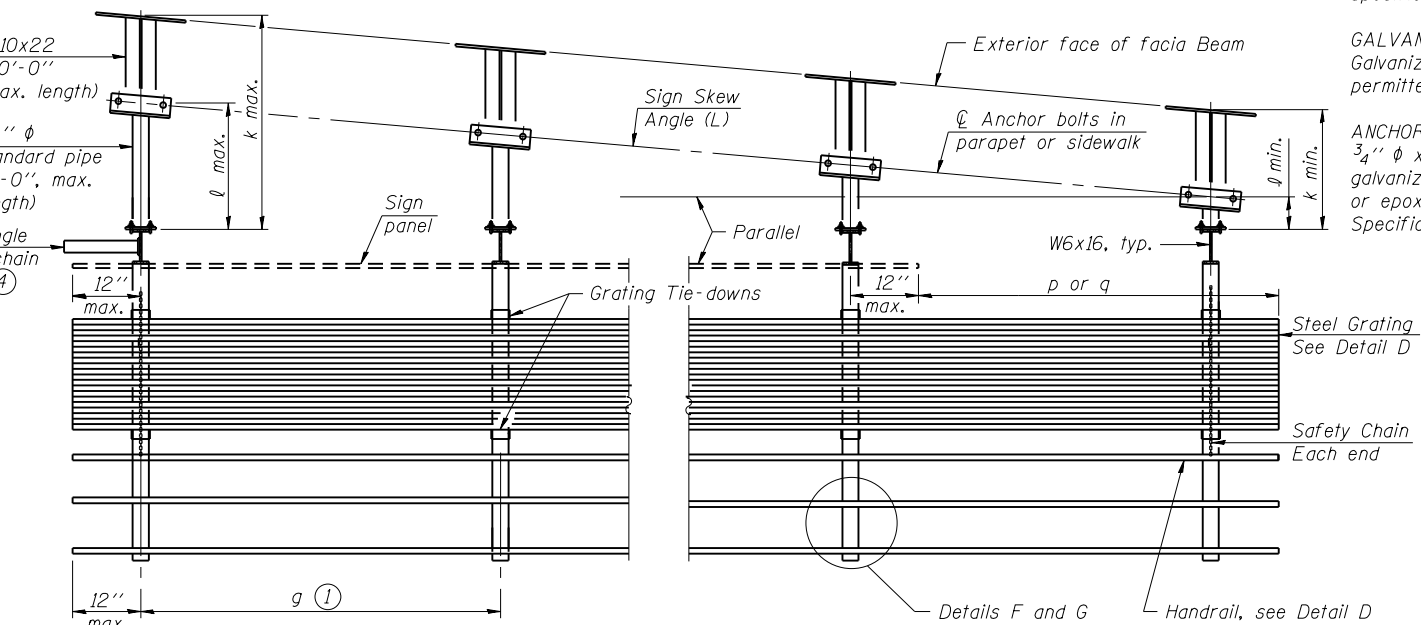
**PLAN**  
(For Sign Skew  $\leq 15^\circ$ , all brackets constant)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



**PLAN**  
(Right Sign Skew > 15°)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



**TYPICAL FRONT ELEVATION**  
(With lights, safety chain and handrail omitted for clarity.)



**SECTION B-B**  
(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c <sub>s</sub>	c <sub>w</sub>	d <sub>s</sub>	d <sub>w</sub>	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c <sub>w</sub> + d <sub>w</sub> )
1B0161090L081.3B	1° 09' 00"	3121+00	016-0309	90	66'-2"	-	27'-0"	-	-	-	-	-	5'-0"	6	-	-	-
1B0161090L082.3	1° 24' 30"	*	016-0708	90	49'-4"	-	27'-0"	-	-	-	-	-	5'-0"	6	-	-	-

Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①.  
When  $c_w < c_s$  and/or  $d_w < d_s$ , use alternate brackets without walkway supports where applicable, see ③.



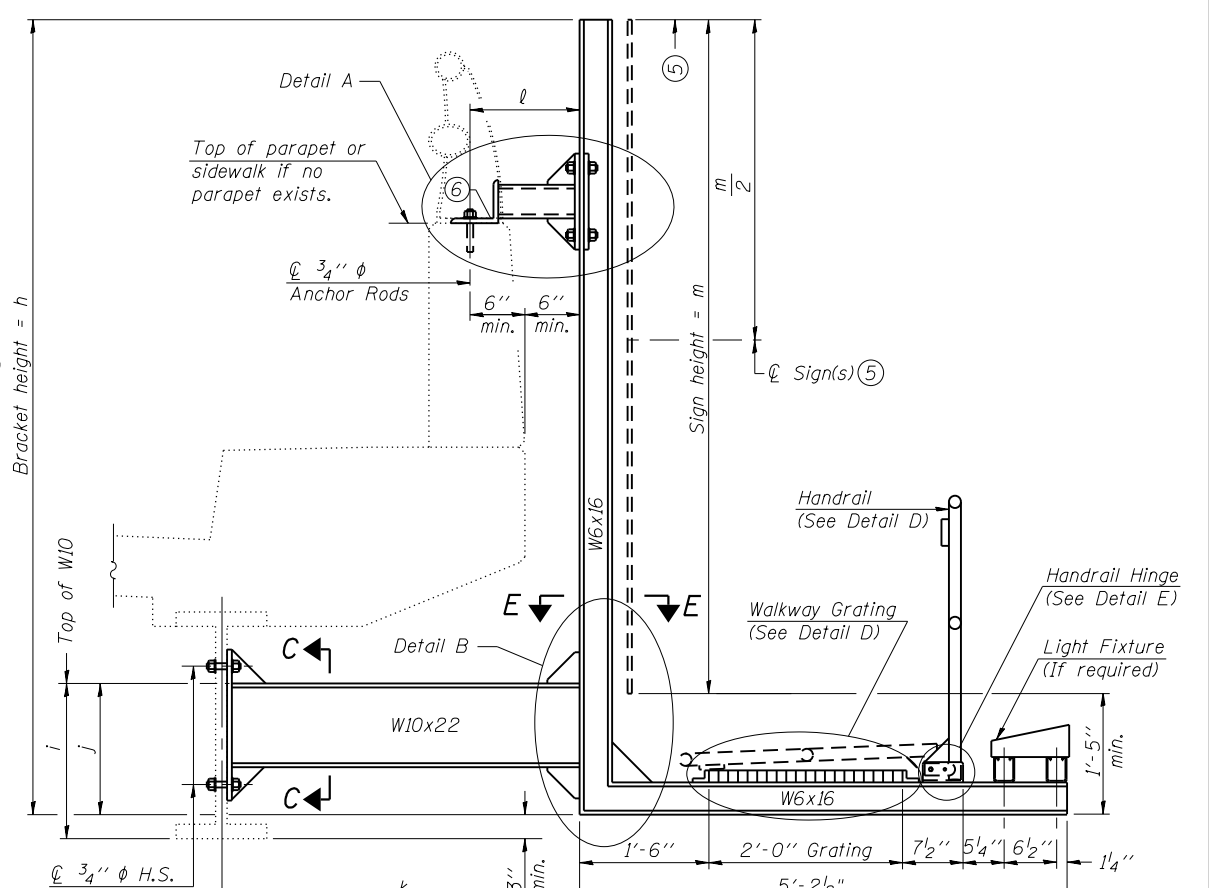
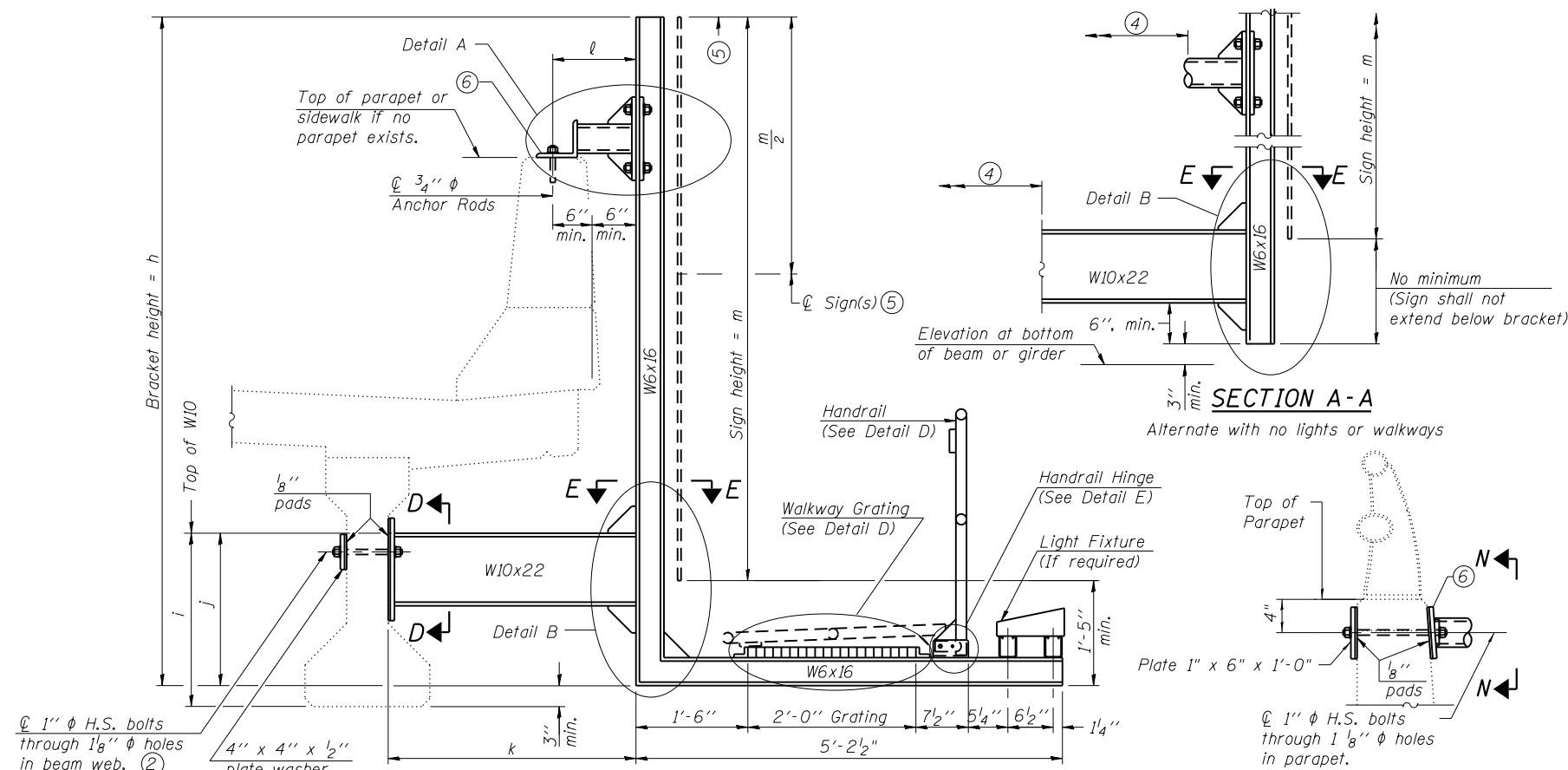
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PLOT SCALE = 0.2" = 1' / in.	CHECKED JFA	REVISED -
PLOT DATE = 1/16/2018	DRAWN LK	REVISED -
	DATE 01/19/2018	REVISED -

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

**BRIDGE MOUNT SIGN STRUCTURES**  
**GENERAL PLAN AND ELEVATION**

SHEET NO. 1 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	303
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



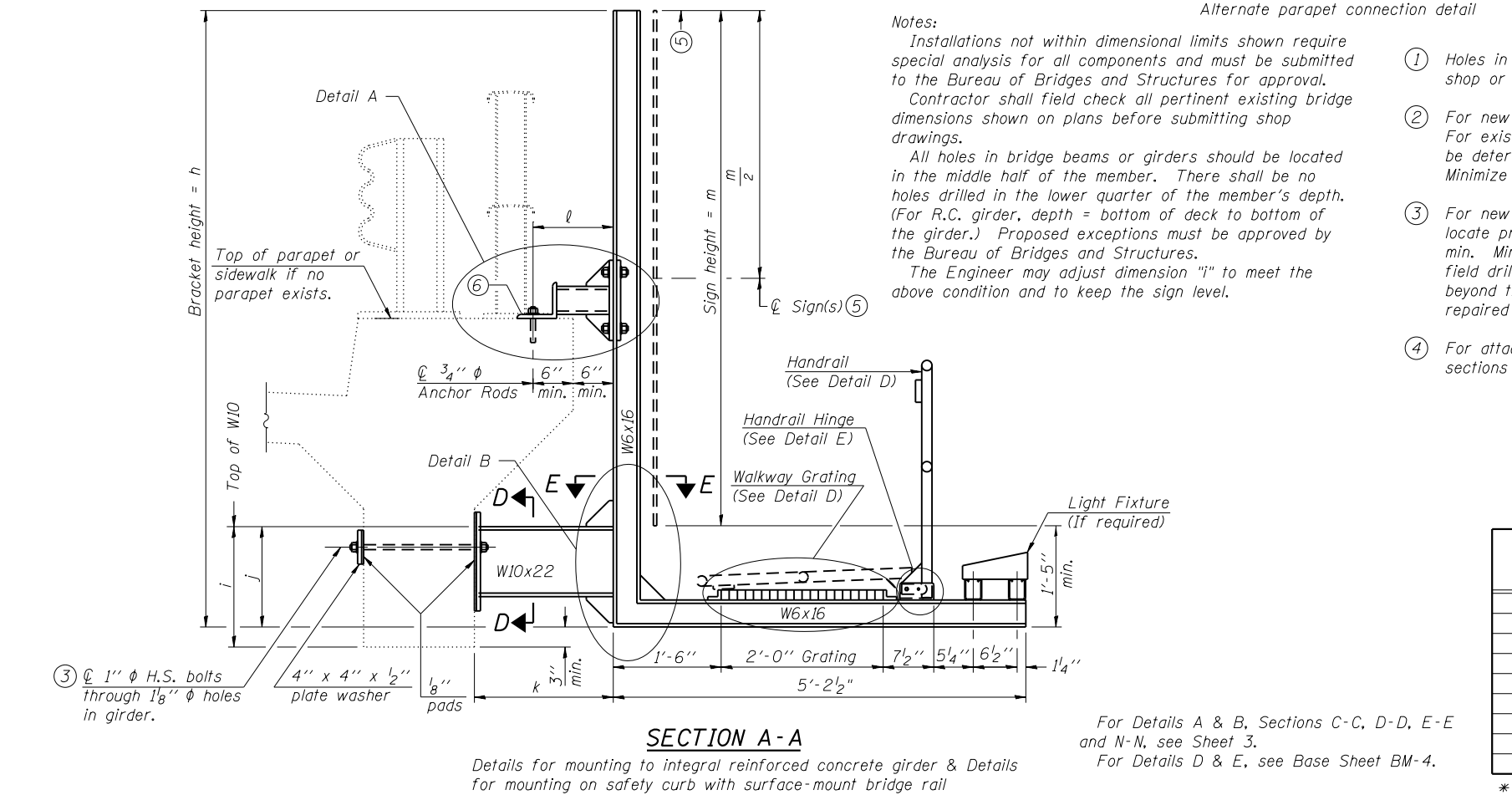
**SECTION A-A** Details for mounting to PPC I Beam or Bulb "T" & Details for mounting to parapet w/o rail

**DETAIL G** Alternate parapet connection detail

**SECTION A-A** Details for mounting to steel beam or girder & Details for mounting with existing parapet mounted rail

**Notes:**  
 Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.  
 All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.  
 The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- ④ For attachment details of 3/2" pipe and W10x22, see other sections as applicable.
- ⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x16 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- ⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during construction that the existing railings cannot be removed, the alternate connection detail shown in Detail G may be used.



Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
1B0161090L081.3B	3121+00	17'-6"	3'-1"	1'-5"	4'-0"	1'-11 1/4"	17'-6"
1B0161090L082.3	*	17'-6"	3'-1"	1'-5"	3'-2"	1'-1 1/4"	17'-6"



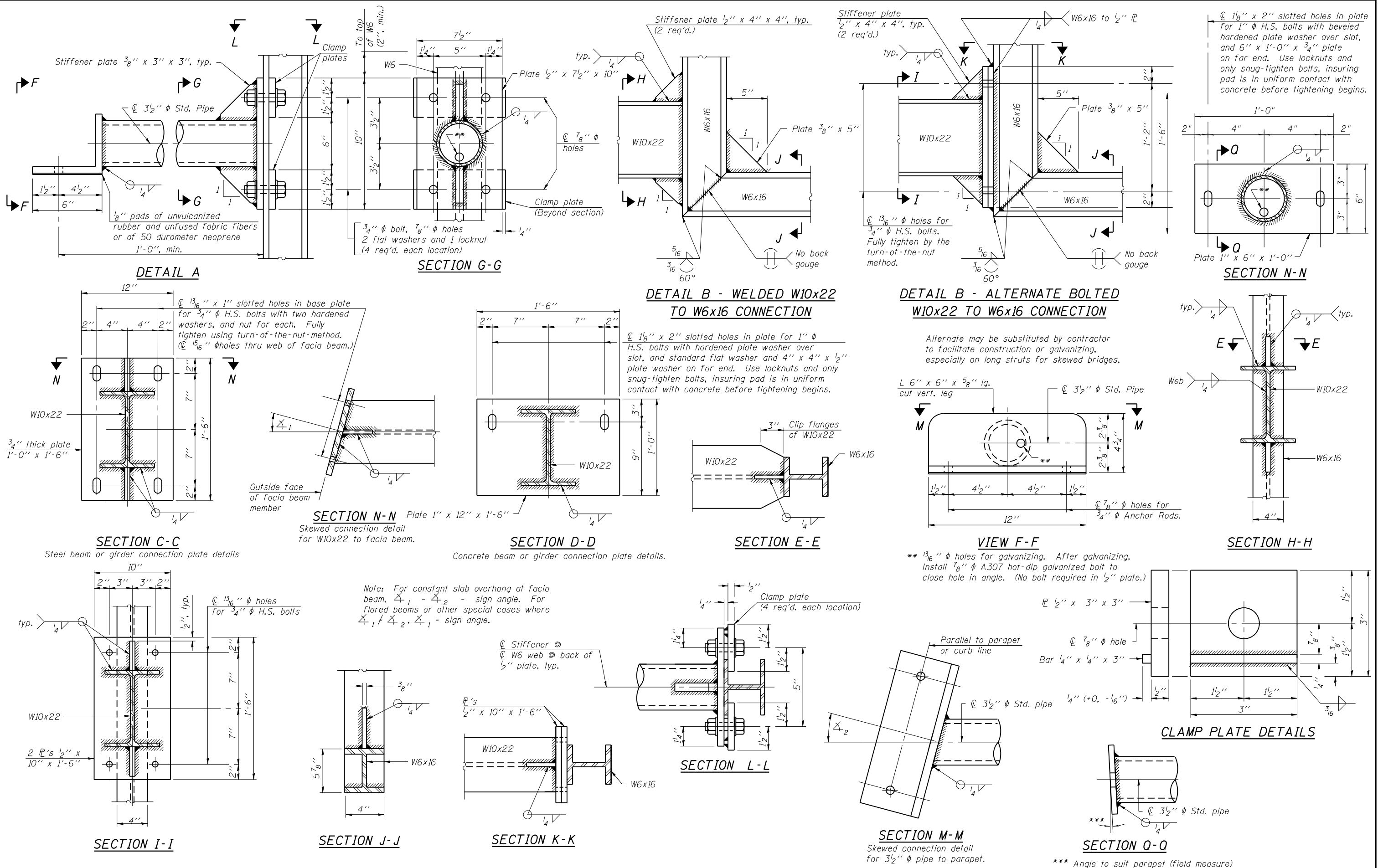
USER NAME = lkalite	DESIGNED APC	REVISED -
PLOT SCALE = 3/8" = 1' / in.	CHECKED JFA	REVISED -
PLOT DATE = 1/16/2018	DRAWN LK	REVISED -
	DATE 01/19/2018	REVISED -

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

**BRIDGE MOUNT SIGN STRUCTURES (SPECIAL)**  
**WALKWAY AND CONNECTION DETAILS**

SHEET NO. 2 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	304
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



USER NAME = <b>lkalite</b>	DESIGNED <b>APC</b>	REVISED -
CHECKED <b>JFA</b>	REVISIONS	
PLOT SCALE = 0.25" = 1' - 0"	DRAWN <b>LK</b>	REVISED -
PLOT DATE = 1/16/2018	DATE <b>01/19/2018</b>	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE MOUNT SIGN STRUCTURES  
CONNECTION DETAILS**

SHEET NO. 3 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	305
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

**SPECIFICATIONS:**

**DESIGN:** AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. ("AASHTO Specifications") ②

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

**LOADING:** 120 M.P.H. WIND VELOCITY

**MINIMUM CLEARANCE:** 3" greater than bridge members at all locations. (All Obstructions)

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

**MATERIALS:** All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

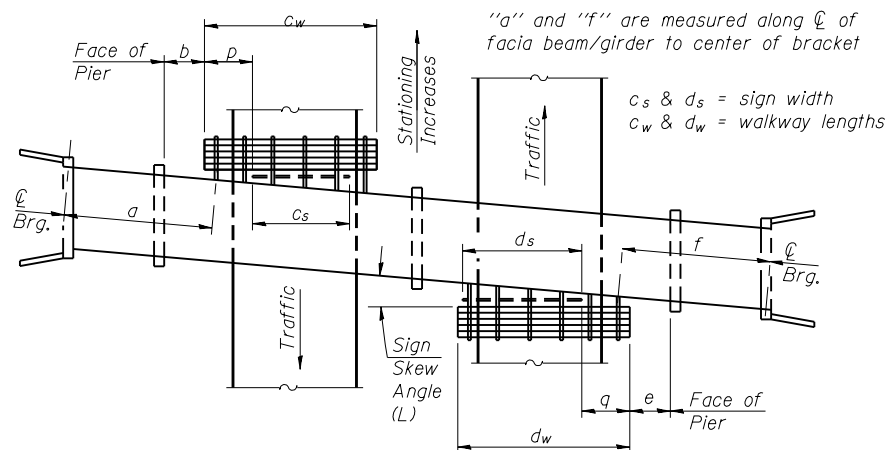
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50.).

**HIGH STRENGTH BOLTS:** All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

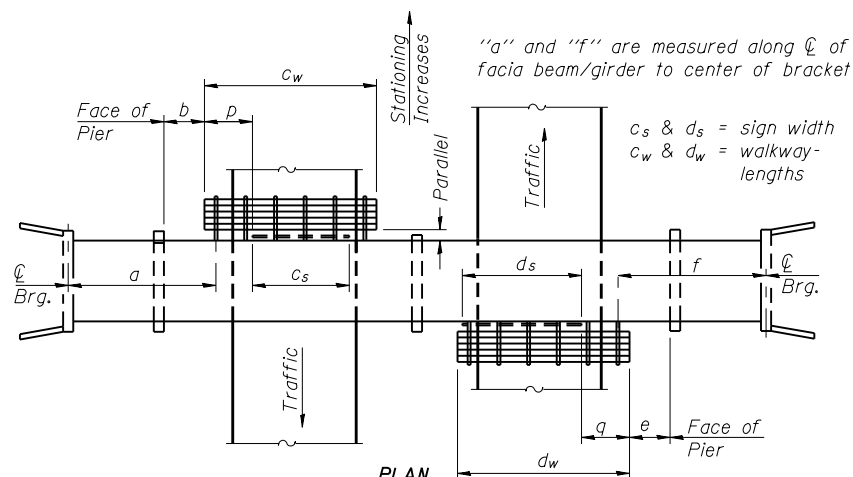
**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

**ANCHOR RODS:** All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4"  $\phi$  x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

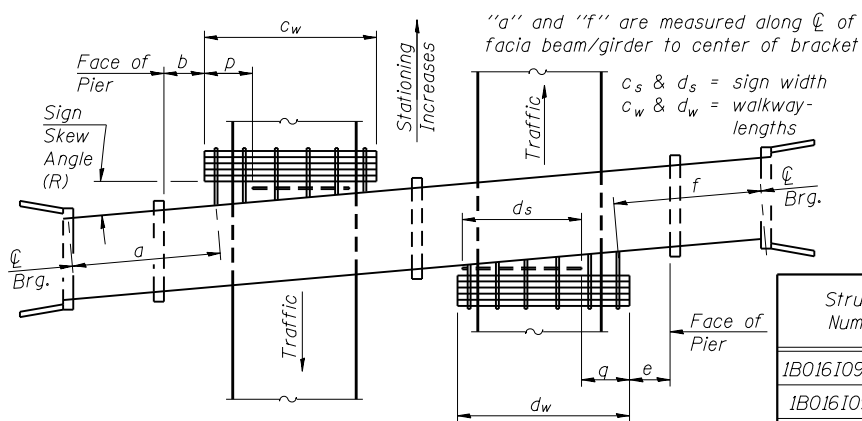
- ① Bracket spacing  $g \leq 6'-0"$ , max. Spacing shall be uniform if possible but may vary  $\pm 6"$  to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length ( $c_w$ ,  $d_w$ ) unless otherwise specified.
- ④ Walkway in front of sign panel is not required and is to be omitted.



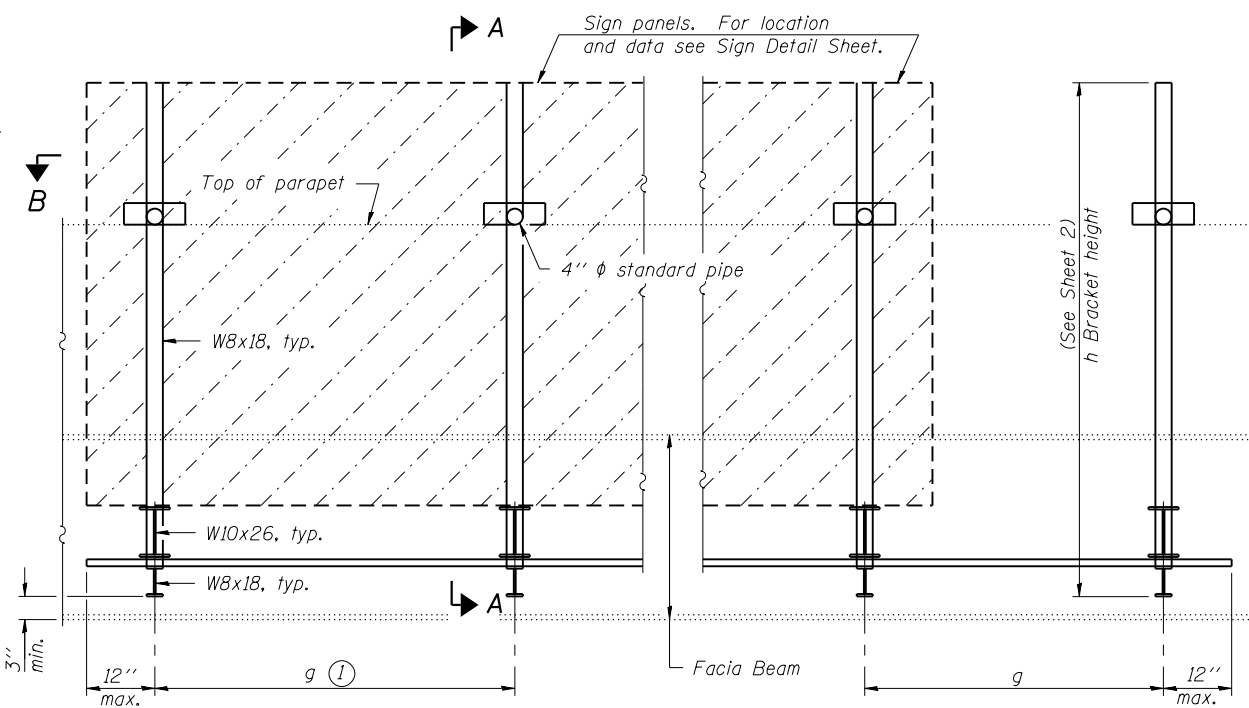
**PLAN**  
(Left Sign Skew > 15°)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



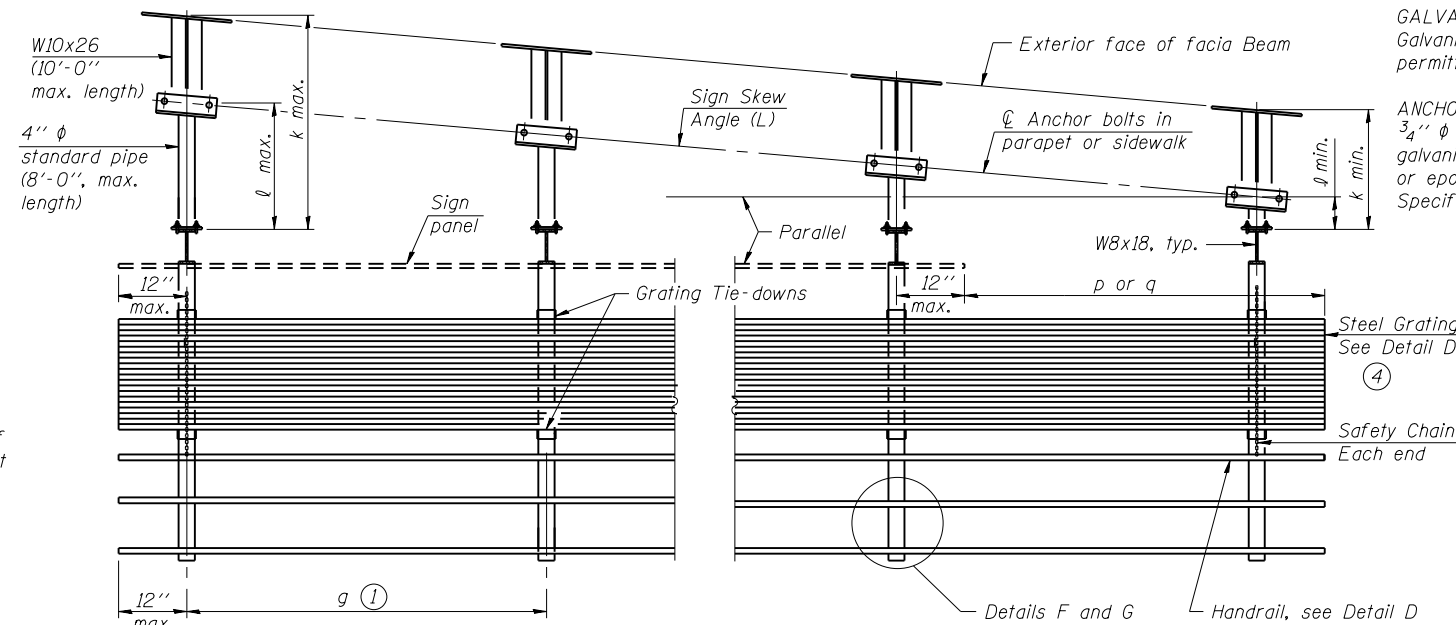
**PLAN**  
(For Sign Skew  $\leq 15^\circ$ , all brackets constant)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



**PLAN**  
(Right Sign Skew > 15°)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



**TYPICAL FRONT ELEVATION**  
(With lights, safety chain and handrail omitted for clarity.)



**SECTION B-B**  
(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c <sub>s</sub>	c <sub>w</sub>	d <sub>s</sub>	d <sub>w</sub>	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c <sub>w</sub> + d <sub>w</sub> )
1B0161090L079.2B	3° 04' 59"	1000+68	016-2280	90	42'-9"	-	14'-0"	-	-	-	-	-	4'-0"	4	-	-	-
1B0161090L080.4	4° 24' 00"	3075+85	016-0707	90	10'-7"	-	44'-0"	-	-	-	-	-	6'-0"	8	-	-	-
1B0161090L080.7B	17° 56' 00"	3094+00	016-1101	90	38'-9"	-	27'-0"	-	-	-	-	-	5'-0"	6	-	-	-

Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①.  
When  $c_w < c_s$  and/or  $d_w < d_s$ , use alternate brackets without walkway supports where applicable, see ③.

**TOTAL BILL OF MATERIAL**

③ OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED (SPECIAL)	Foot	85
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USER NAME = ikelite  
DESIGNED APC  
CHECKED JFA  
PLOT SCALE = 0.2" = 1' / in.  
DRAWN LK  
PLOT DATE = 1/16/2018  
DATE 01/19/2018

REVISOR  
REVISOR  
REVISOR  
REVISOR

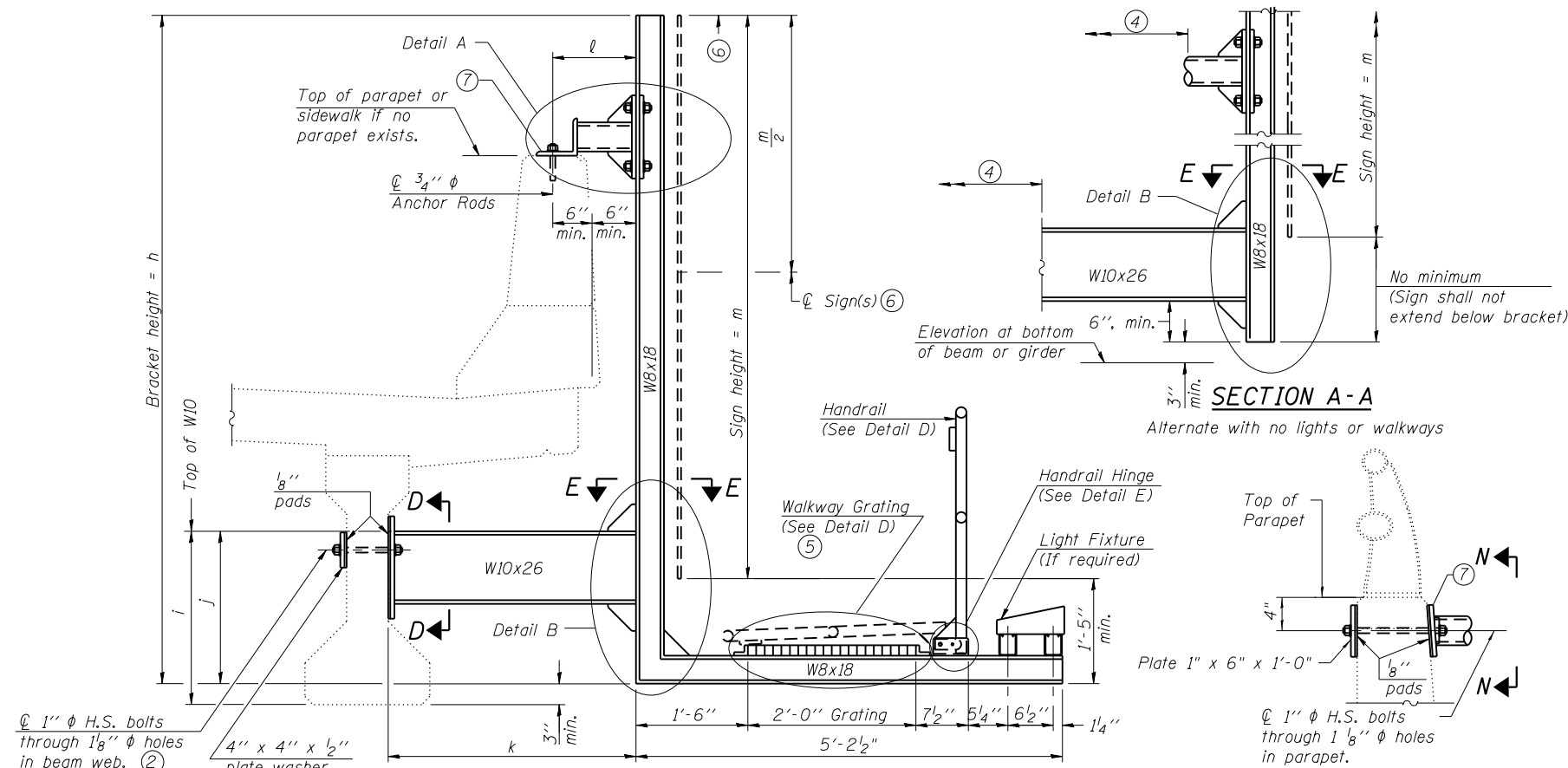
REVISOR  
REVISOR  
REVISOR  
REVISOR

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

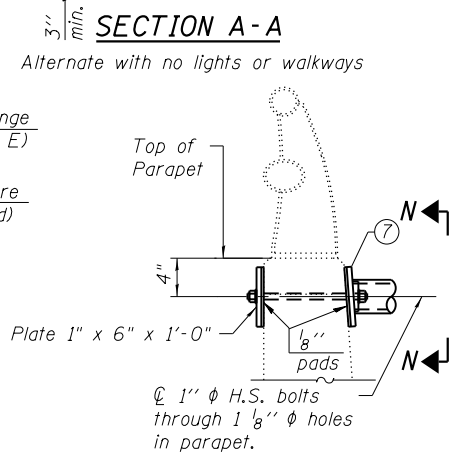
BRIDGE MOUNT SIGN STRUCTURES (SPECIAL)  
GENERAL PLAN AND ELEVATION

SHEET NO. 1 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	306
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

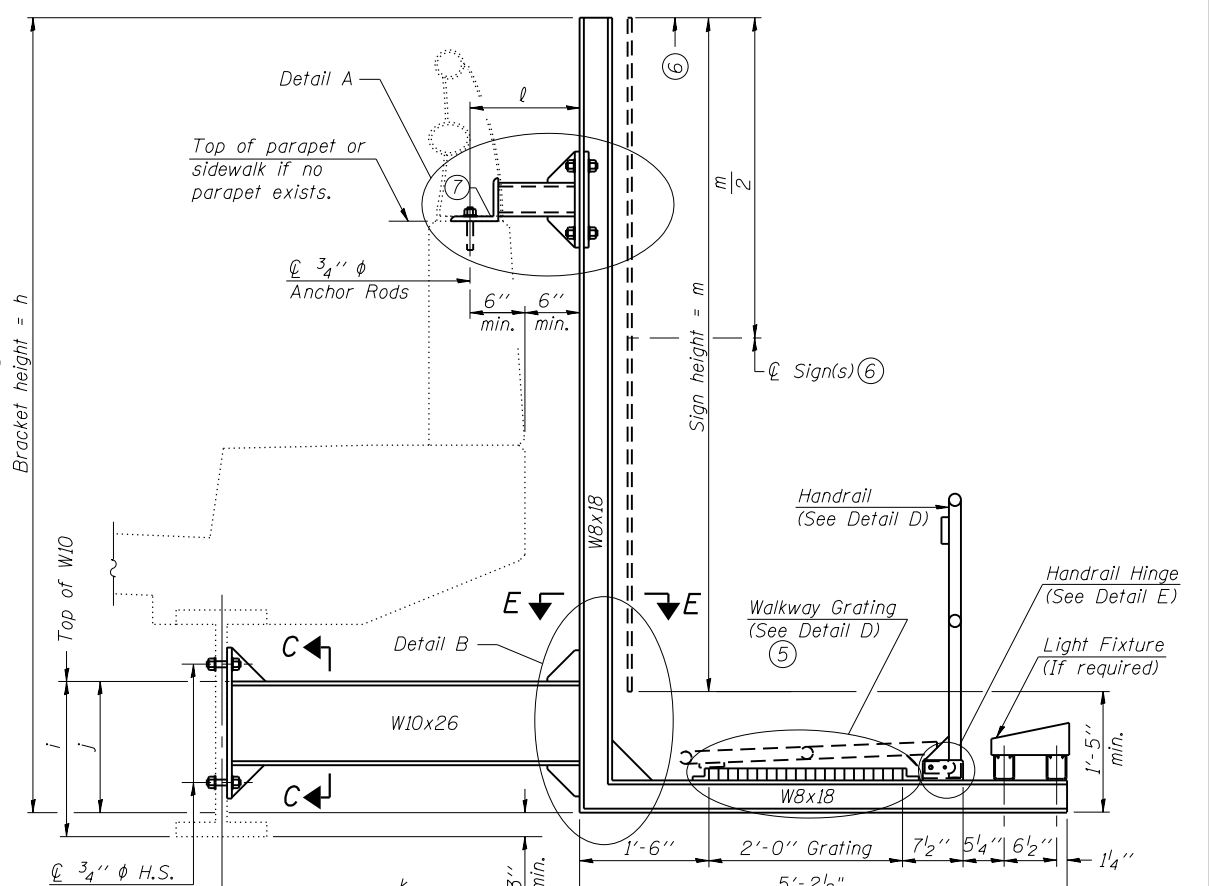


**SECTION A-A** Details for mounting to PPC I Beam or Bulb "T" & Details for mounting to parapet w/o rail



**DETAIL G**

Alternate parapet connection detail

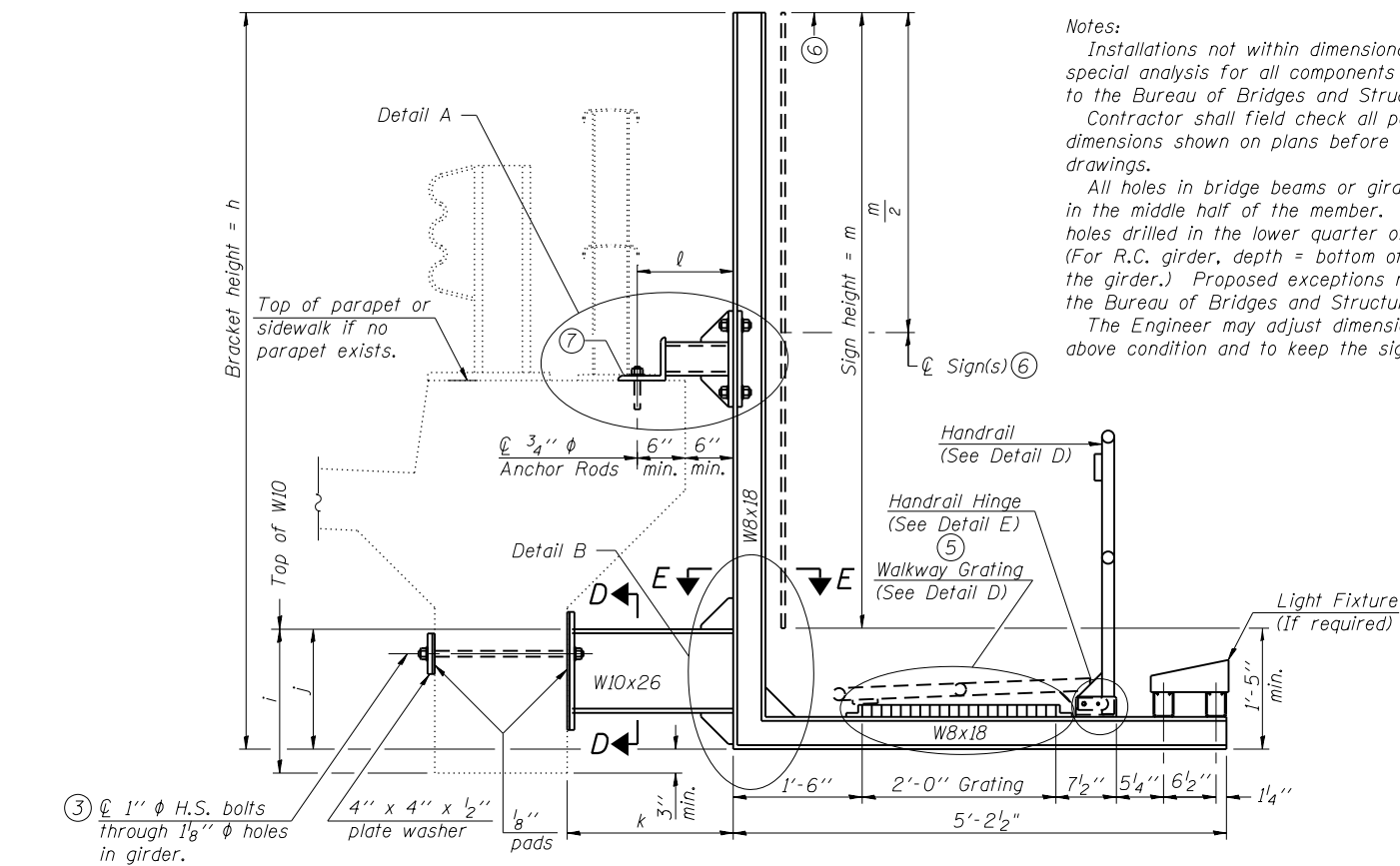


**SECTION A-A**

Details for mounting to steel beam or girder & Details for mounting with existing parapet mounted rail

**Notes:**  
 Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.  
 All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.  
 The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- ④ For attachment details of 4" pipe and W10x26, see other sections as applicable.
- ⑤ Walkway in front of sign panel is not required and is to be omitted.
- ⑥ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W8x18 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- ⑦ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during construction that the existing railings cannot be removed, the alternate connection detail shown in Detail G may be used.



**SECTION A-A**

Details for mounting to integral reinforced concrete girder & Details for mounting on safety curb with surface-mount bridge rail

For Details A & B, Sections C-C, D-D, E-E and N-N, see Sheet 3.

Structure Number	Station	h	i	j	k max.	l max.	m (15'-0" max.)
IB0161090L079.2B	1000+68	20'-6"	2'-3"	1'-5"	3'-2"	1'-1"	20'-6"
IB0161090L080.4	3075+85	18'-6"	2'-10"	1'-5"	5'-3"	2'-10 1/8"	18'-6"
IB0161090L080.7B	3094+00	17'-6"	2'-4"	1'-5"	12'-0"	9'-4 1/2"	17'-6"



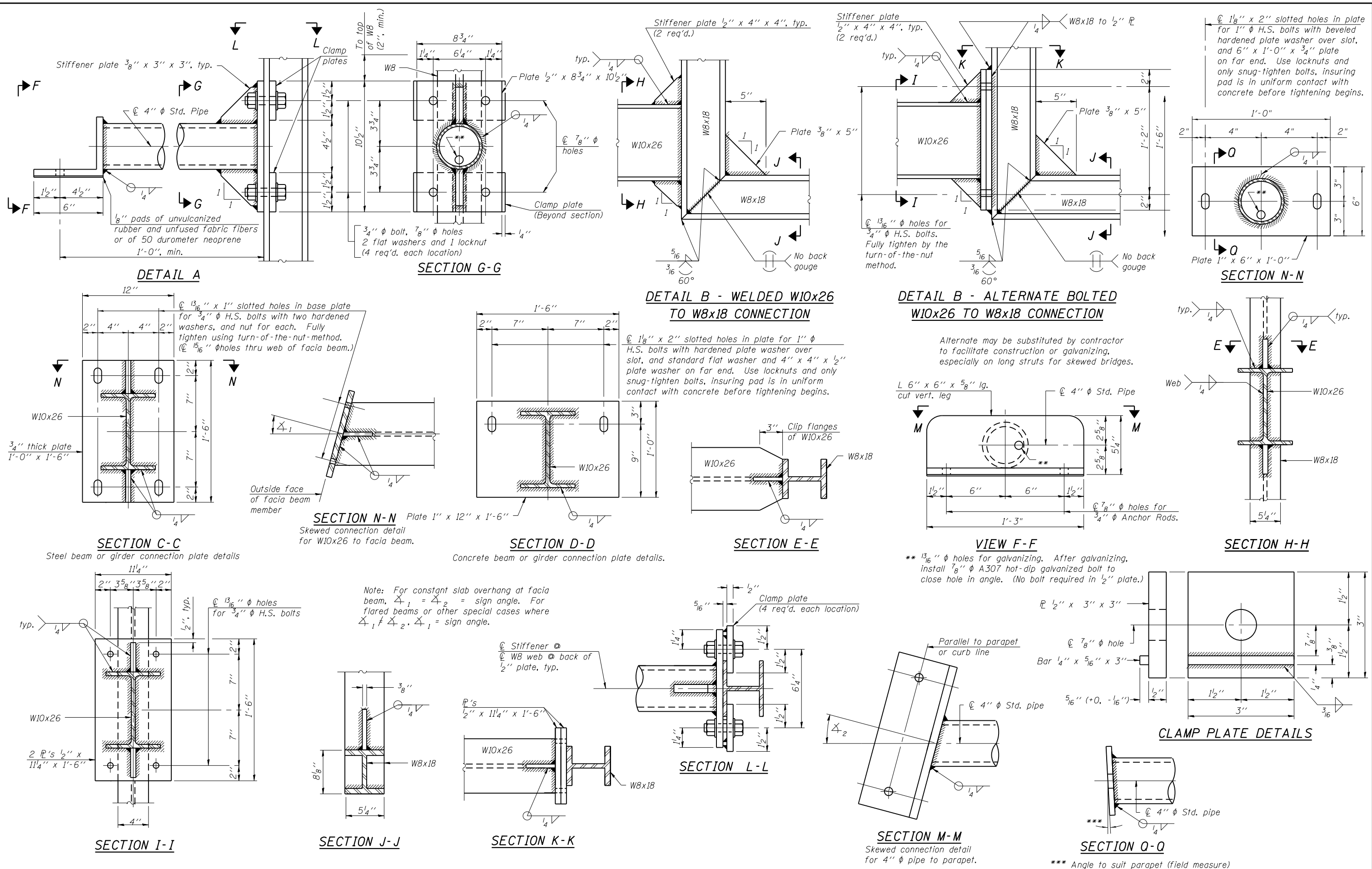
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DEPARTMENT OF TRANSPORTATION

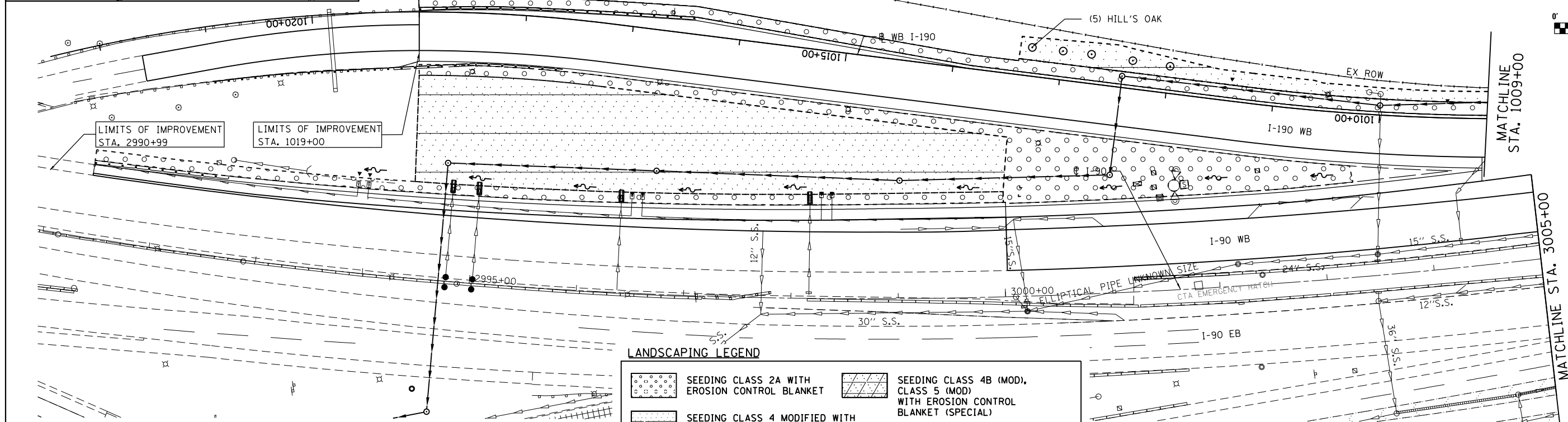
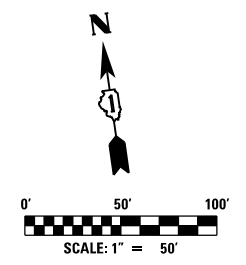
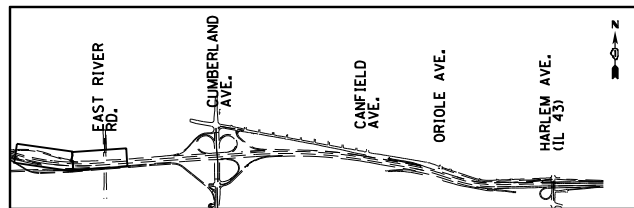
BRIDGE MOUNT SIGN STRUCTURES (SPECIAL)  
WALKWAY AND CONNECTION DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	307
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

SHEET NO. 2 OF 3 SHEETS







**LANDSCAPING LEGEND**

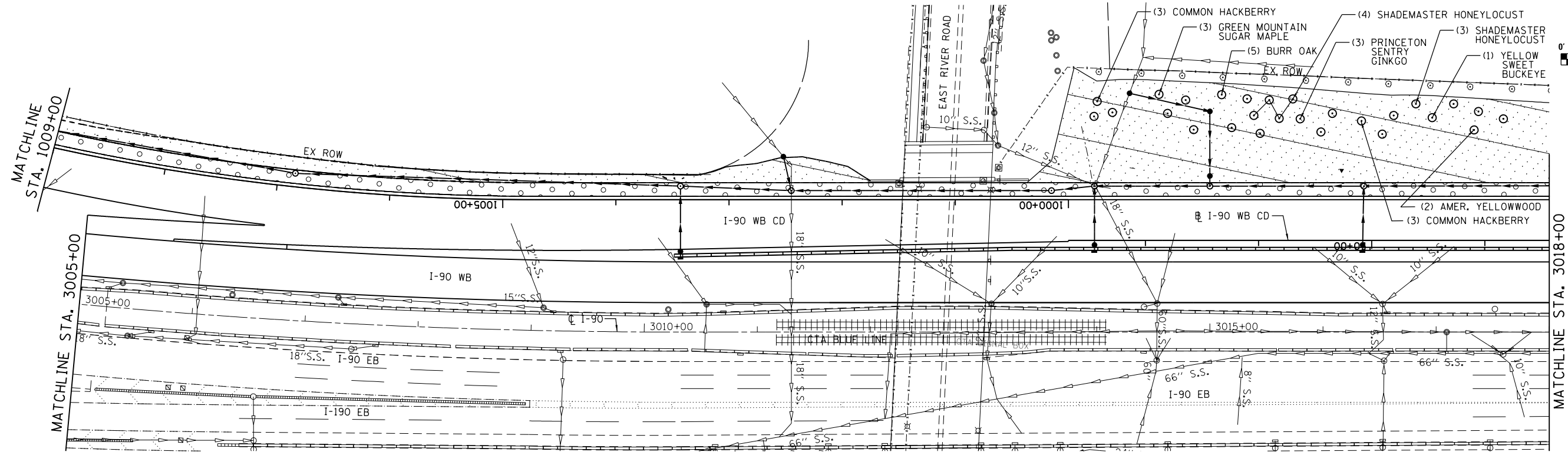
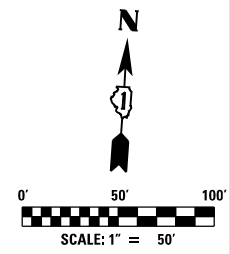
	SEEDING CLASS 2A WITH EROSION CONTROL BLANKET		SEEDING CLASS 4B (MOD), CLASS 5 (MOD) WITH EROSION CONTROL BLANKET (SPECIAL)
	SEEDING CLASS 4 MODIFIED WITH EROSION CONTROL BLANKET (SPECIAL)		

**NOTES:**

- ALL TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

**2. PERMANENT SEEDING SHALL BE:**

- CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.
- CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.



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USER NAME = ssekulich	DESIGNED GS	REVISED -
PLOT SCALE = 24.00' / ft.	DRAWN ML	REVISED -
PLOT DATE = 1/16/2018	CHECKED YO	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

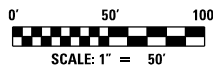
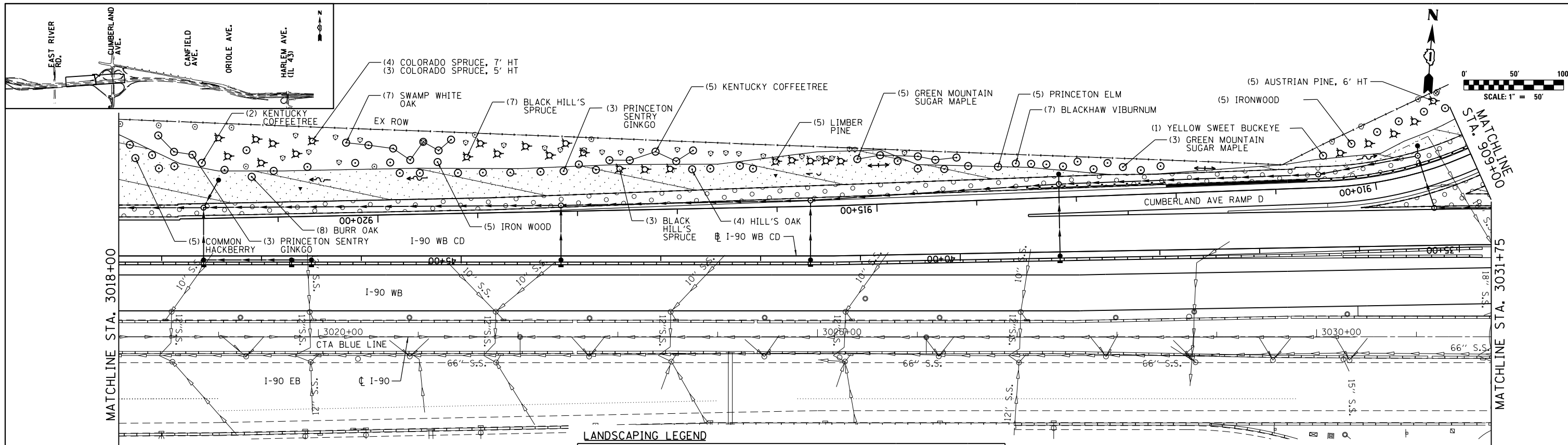
**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE  
LANDSCAPING PLAN**

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

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 309
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

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LS-01

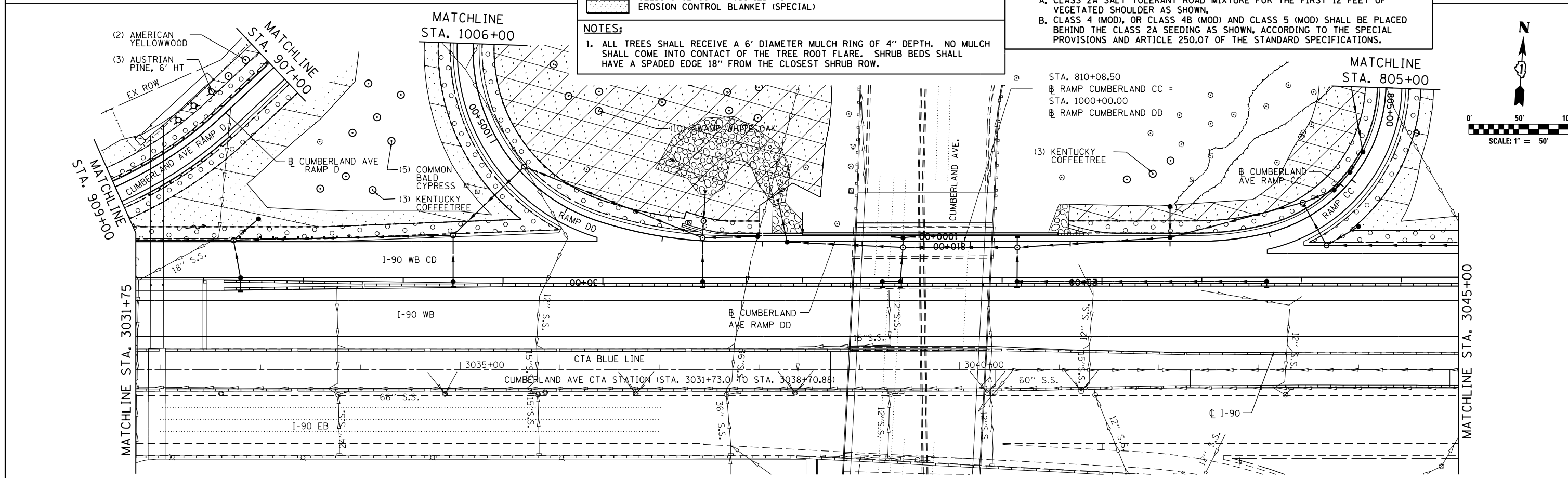
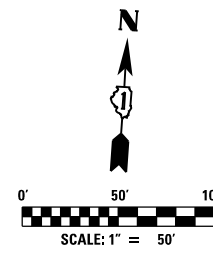


**LANDSCAPING LEGEND**

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING CLASS 4 MODIFIED WITH EROSION CONTROL BLANKET (SPECIAL)
- SEEDING CLASS 4B (MOD), CLASS 5 (MOD) WITH EROSION CONTROL BLANKET (SPECIAL)

**NOTES:**  
 1. ALL TREES SHALL RECEIVE A 6" DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

**2. PERMANENT SEEDING SHALL BE:**  
 A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.  
 B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.



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PLOT DATE = 1/16/2018	CHECKED YO	REVISED -
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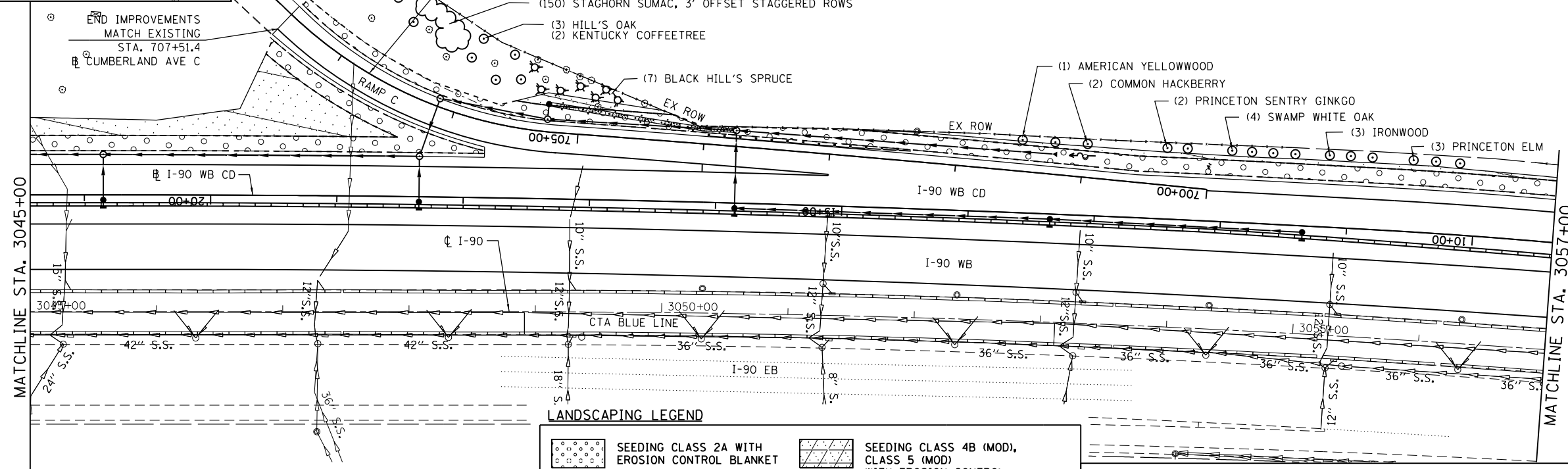
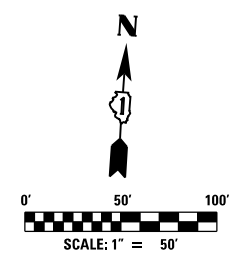
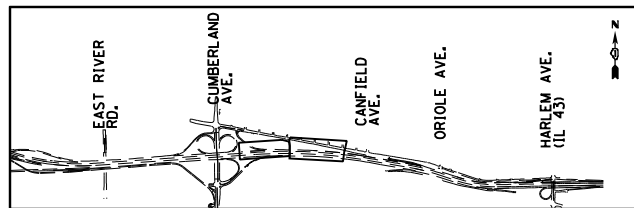
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
 LANDSCAPING PLAN**  
 SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 310
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				

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LS-02



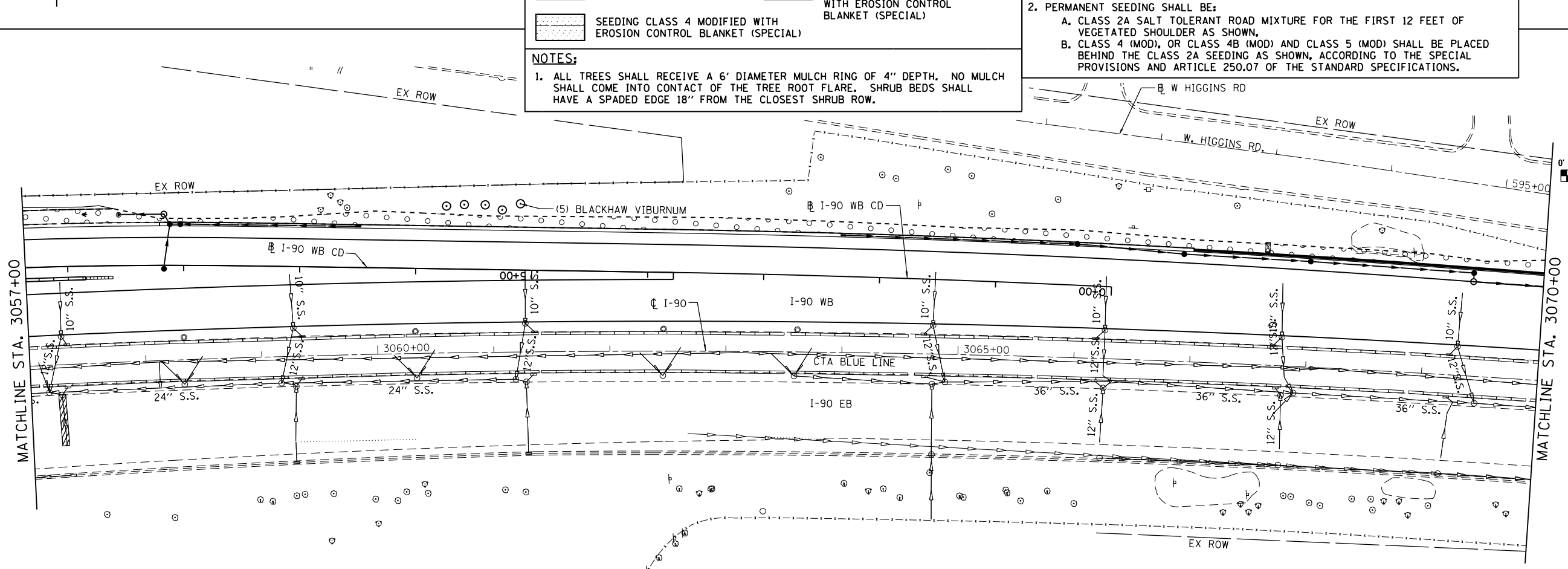
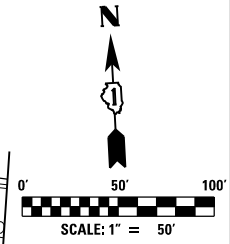
**LANDSCAPING LEGEND**

	SEEDING CLASS 2A WITH EROSION CONTROL BLANKET		SEEDING CLASS 4B (MOD), CLASS 5 (MOD) WITH EROSION CONTROL BLANKET (SPECIAL)
	SEEDING CLASS 4 MODIFIED WITH EROSION CONTROL BLANKET (SPECIAL)		

**NOTES:**

1. ALL TREES SHALL RECEIVE A 6" DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

2. PERMANENT SEEDING SHALL BE:  
 A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.  
 B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.



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	DATE 01/19/2018	REVISED -

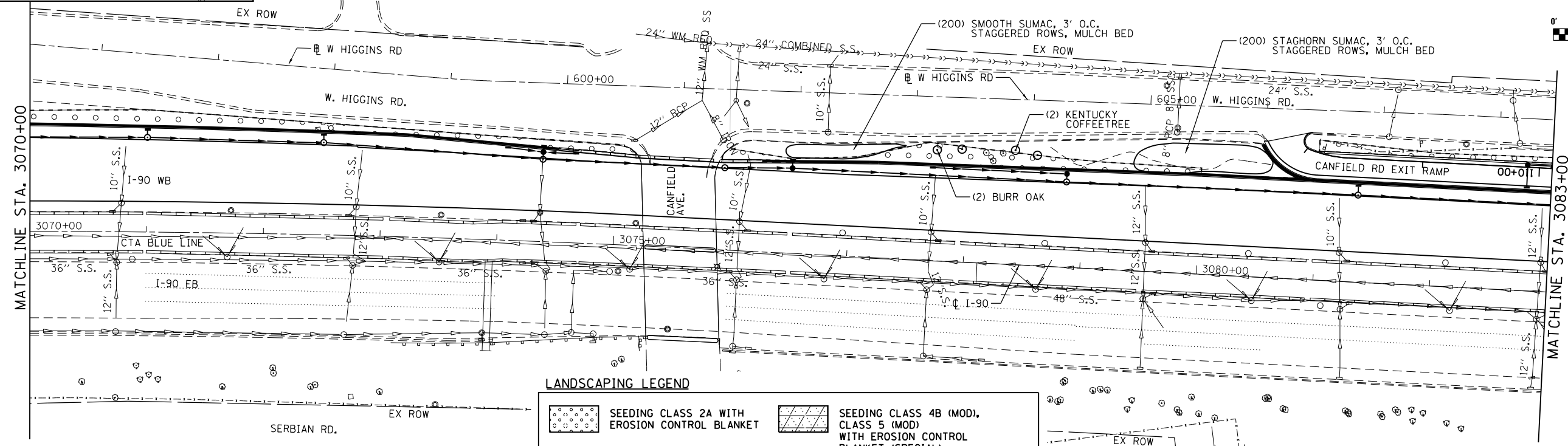
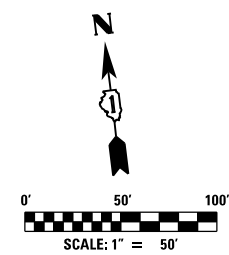
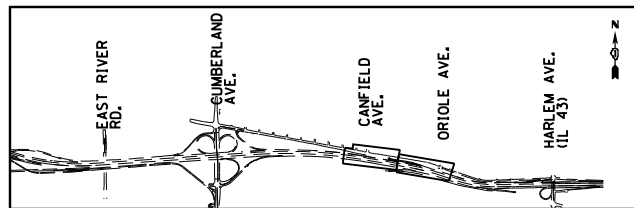
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE  
 LANDSCAPING PLAN**  
 SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 311
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

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LS-03



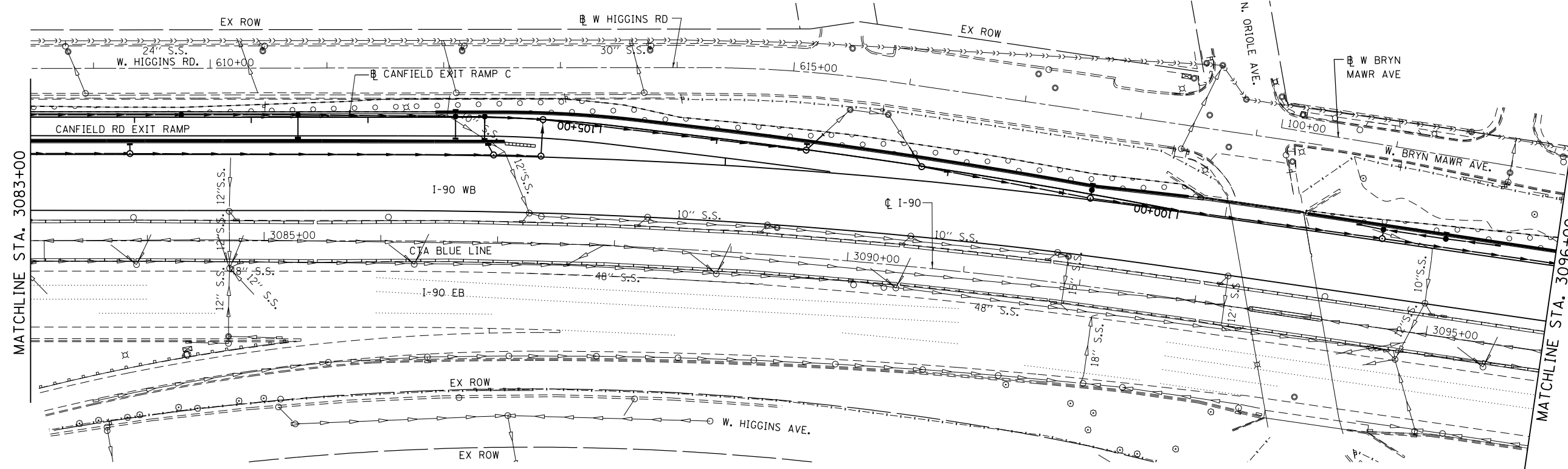
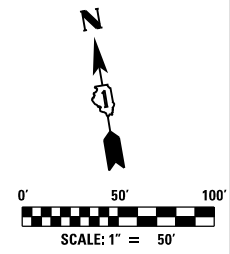
**LANDSCAPING LEGEND**

	SEEDING CLASS 2A WITH EROSION CONTROL BLANKET		SEEDING CLASS 4B (MOD), CLASS 5 (MOD) WITH EROSION CONTROL BLANKET (SPECIAL)
	SEEDING CLASS 4 MODIFIED WITH EROSION CONTROL BLANKET (SPECIAL)		

**NOTES:**

1. ALL TREES SHALL RECEIVE A 6" DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

2. PERMANENT SEEDING SHALL BE:  
 A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.  
 B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.



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PLOT DATE = 1/16/2018	CHECKED YO	REVISED -
	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

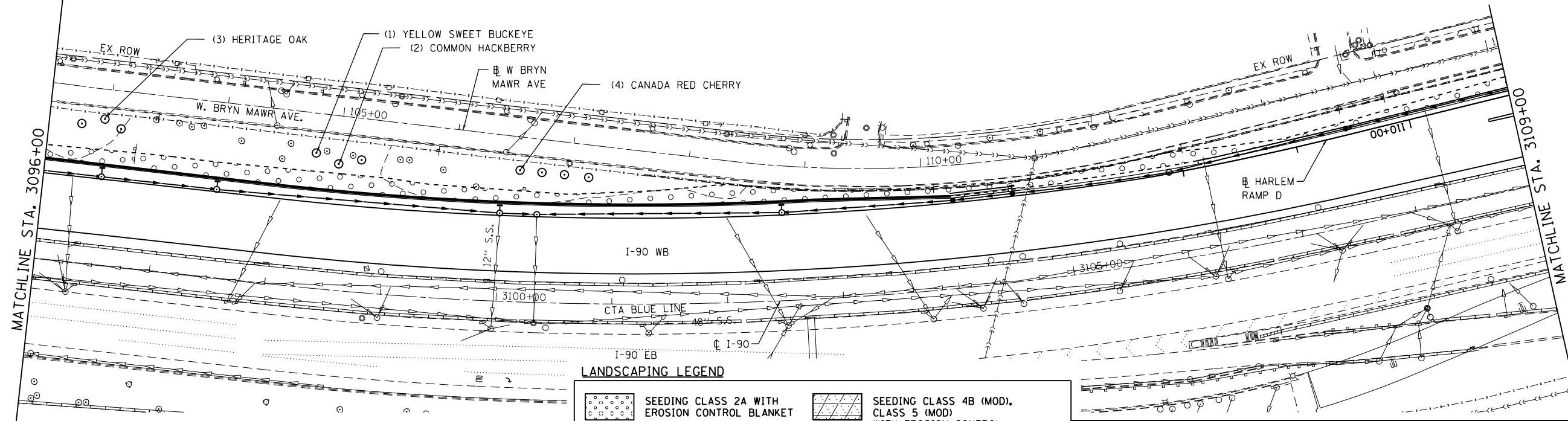
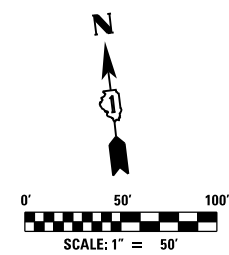
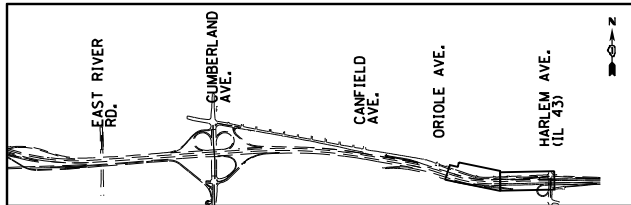
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
 LANDSCAPING PLAN**

SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 312
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

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LS-04



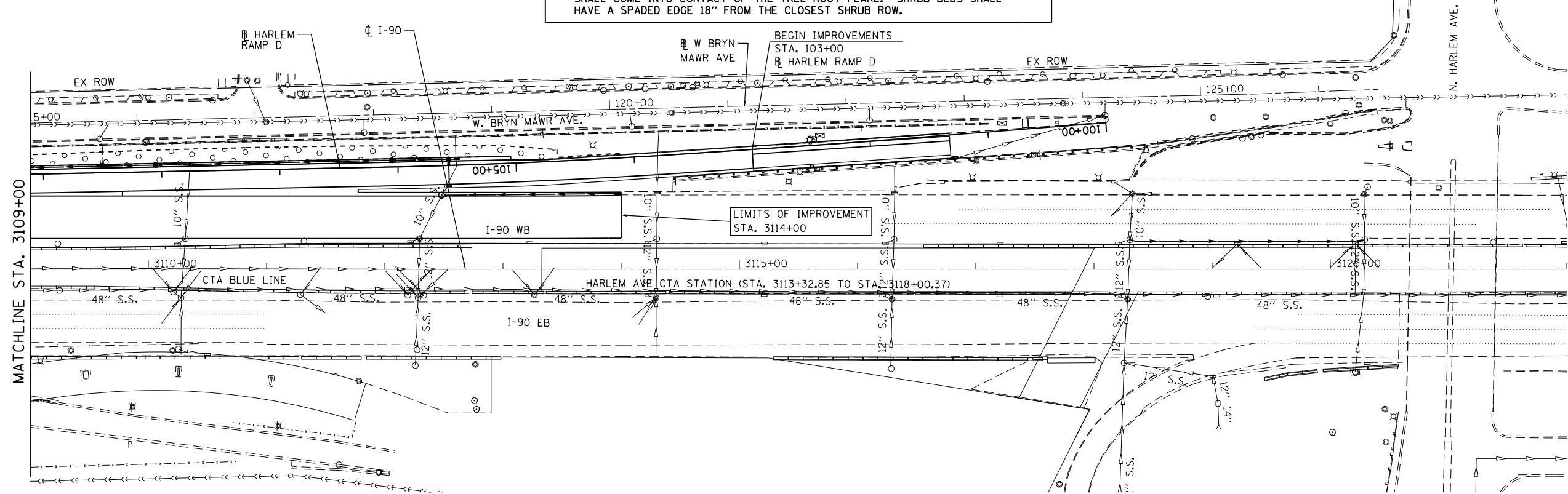
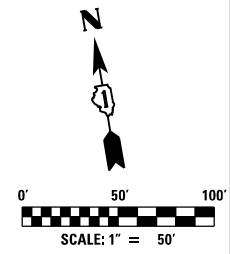
**LANDSCAPING LEGEND**

	SEEDING CLASS 2A WITH EROSION CONTROL BLANKET		SEEDING CLASS 4B (MOD), CLASS 5 (MOD) WITH EROSION CONTROL BLANKET (SPECIAL)
	SEEDING CLASS 4 MODIFIED WITH EROSION CONTROL BLANKET (SPECIAL)		

**NOTES:**

1. ALL TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

2. PERMANENT SEEDING SHALL BE:  
 A. CLASS 2A SALT TOLERANT ROAD MIXTURE FOR THE FIRST 12 FEET OF VEGETATED SHOULDER AS SHOWN.  
 B. CLASS 4 (MOD), OR CLASS 4B (MOD) AND CLASS 5 (MOD) SHALL BE PLACED BEHIND THE CLASS 2A SEEDING AS SHOWN, ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 250.07 OF THE STANDARD SPECIFICATIONS.



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USER NAME = ssekulich	DESIGNED GS	REVISED -
PLOT SCALE = 24.00' / Ft.	DRAWN ML	REVISED -
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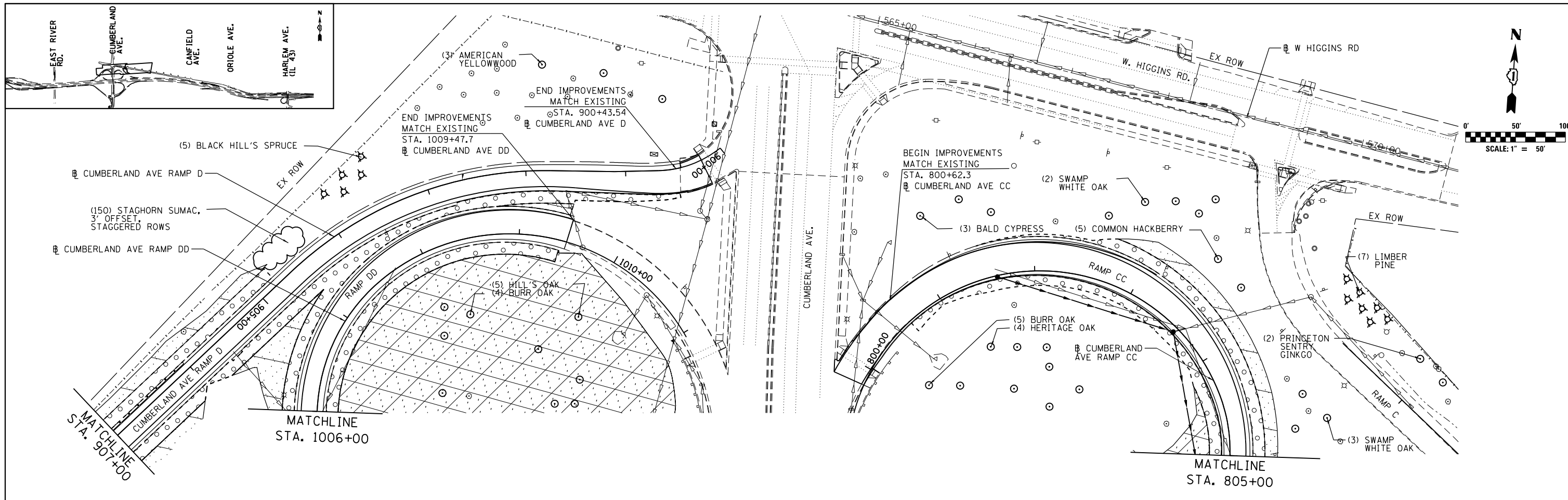
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
 LANDSCAPING PLAN**  
 SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 313
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CADD From PW I-90 WB\160Y39-sht-land-05.dgn

LS-05



**LANDSCAPING LEGEND**

	SEEDING CLASS 2A WITH EROSION CONTROL BLANKET		SEEDING CLASS 4B (MOD), CLASS 5 (MOD) WITH EROSION CONTROL BLANKET (SPECIAL)
	SEEDING CLASS 4 MODIFIED WITH EROSION CONTROL BLANKET (SPECIAL)		

**NOTES:**

1. ALL TREES SHALL RECEIVE A 6' DIAMETER MULCH RING OF 4" DEPTH. NO MULCH SHALL COME INTO CONTACT OF THE TREE ROOT FLARE. SHRUB BEDS SHALL HAVE A SPADED EDGE 18" FROM THE CLOSEST SHRUB ROW.

2. PERMANENT SEEDING SHALL BE:  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
 LANDSCAPING PLAN**

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

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 314
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

LS-06

FILE NAME = G:\Engineer\00 PROJECTS\3001 HNTB\3001-DS-002 I-90 Phase II\CAD\CADD From PW I-90 WB\160Y39-sht-land-06.dgn

**INDEX OF SHEETS**

E-01 - E-30 IDOT LIGHTING PLANS  
 E-31 - E-53 IDOT LIGHTING DETAILS

**ABBREVIATIONS**

AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BC	BOLT CIRCLE
C	CONDUIT
DIA	DIAMETER
GRD	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
HPS	HIGH PRESSURE SODIUM
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
JB	JUNCTION BOX
LED	LIGHT-EMITTING DIODE
MA	MAST ARM
MH	MOUNTING HEIGHT
N	NEUTRAL
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
USE	UNDERGROUND SERVICE ENTRANCE
W	WATTS
XLP	CROSS-LINKED POLYETHYLENE

**LIGHTING GENERAL NOTES**

- PRIOR TO ANY WORK IN FIELD, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
- THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH WOULD EFFECT HIS WORK UNDER THIS CONTRACT FOR THE OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR MAY ADJUST POLE LOCATIONS UP TO 10' IN ANY DIRECTION EXCEPT CLOSER TO THE ROAD, IN ORDER TO ADJUST FOR FIELD CONDITIONS.
- THE ELECTRIC SERVICE SHALL BE SINGLE PHASE, 3 WIRE 240/480V. UTILITY CONNECTION CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED.
- ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH NATIONAL ELECTRICAL CODE EVEN THOUGH EVERY DETAIL OF REQUIREMENTS IS NOT SPECIFIED OR SHOWN.
- GROUNING OF POLE INCLUDING GROUND ROD, CONDUCTOR, LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL NOT BE PAID SEPARATELY. COST MUST BE INCLUDED IN UNIT PRICE OF EACH POLE.
- ALL UNDERGROUND WIRING SHALL BE 30 INCHES MINIMUM BELOW GRADE.
- THE NEW ELECTRICAL MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS.  
 - NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. (NEMA)  
 - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. (IEEE)  
 - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. (IES)  
 - AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS. (AATO)  
 - U.S. DEPARTMENT OF TRANSPORTATION. (U.S.D.O.T)  
 - UNDERWRITERS LABORATORIES. (UL)  
 - AMERICAN STANDARD INSTITUTE. (ANSI)  
 - INSULATED NATIONAL POWER AND CABLE ENGINEERS ASSOCIATION. (IPCEA)  
 - NATIONAL ELECTRICAL SAFETY CODE (NESC)  
 - NATIONAL ELECTRICAL CODE 2011  
 - AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8-00 & RP-8-14)
- ALL LIGHT POLES EXCEPT POLES MOUNTED ON CONCRETE BARRIER WALL/BRIDGE PARAPET WALL/ABUTMENT WALL/BEHIND GUARD RAIL/RETAINING WALL, SHALL HAVE AASHTO APPROVED FRANGIBLE TYPE BREAKAWAY TRANSFORMER BASE.
- ALL SPLICING MUST BE IN POLE BASES OR JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
- LIGHT POLES INSTALLED BEHIND GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 3 FEET SETBACK FROM THE BACK OF GUARDRAIL OR WALL OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- EACH LIGHTING UNIT SHALL BE CONTROLLED BY THE INDICATED LIGHTING CONTROLLER. NO LIGHT SHALL BE INDIVIDUALLY CONTROLLED BY PHOTOCELL.
- COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING ROADWAY FOR THIS WORK, AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, REINSTALLING, REPAIRING, OR REPLACING EQUIPMENT.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION AND REMODELING WORK. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING ALL RELOCATIONS AND REMOVALS REQUIRED IN THIS CONTRACT. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING CONDITIONS AND COORDINATE AS REQUIRED.
- ITS EQUIPMENT WILL BE MOUNTED TO SOME TEMPORARY LIGHTING WOOD POLES, CONTRACTOR SHALL COORDINATE WITH THE ITS PLANS FOR REMOVAL AND ADDITIONAL INSTALLATION DETAILS.
- LOCATIONS OF LIGHTING CONDUITS AND FOUNDATIONS IN CLOSE PROXIMITY TO EXISTING CHICAGO DEPARTMENT OF WATER MANAGEMENT FACILITIES MUST BE COORDINATED IN THE FIELD WITH A DEPARTMENT OF WATER MANAGEMENT REPRESENTATIVE. ALL EXCAVATION IN THESE LOCATIONS MUST BE PERFORMED BY HAND.

**PROPOSED LIGHTING GENERAL NOTES**

- ALL NEW UNIT DUCT, CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDER DRAINS AND UTILITIES.
- EXISTING LIGHTING ON WEST OF EXPRESSWAY I-90 SHALL REMAIN UNCHANGED DURING AND AFTER CONSTRUCTION FOR FURTHER USE.

**TEMPORARY LIGHTING GENERAL NOTES**


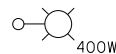
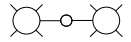


















- THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED; APPROVAL DOESN'T RELIEVE CONTRACTOR OF RESPONSIBILITY FOR CONFLICTS.
- THE TEMPORARY LIGHT POLE SETBACK FROM THE FURTHEST EDGE OF TRAVEL PAVEMENT (PER MOT PLANS) SHALL BE 18 FT MIN. UNLESS OTHERWISE NOTED BY OFFSET FROM EXISTING EDGE OF PAVEMENT FOR THAT STAGE.
- THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE.
- THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY REMOVALS. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER; AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON.
- WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS.
- UNLESS NOTED OTHERWISE TEMPORARY UNDERGROUND CONDUCTORS SHALL BE 3-1/C\*2, 1-1/C\*4 GND; XLP-TYPE USE, COPPER; TEMPORARY OVERHEAD CONDUCTORS SHALL BE 3-1/C\*2 AL WITH MESSENGER WIRE.
- WHENEVER POSSIBLE THE CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING UNITS IN THE PRESTAGE. TEMPORARY LIGHTING MUST BE FULLY OPERATIONABLE BEFORE THE EXISTING LIGHTING ON I-90 MAY BE REMOVED.
- EVERY THIRD TEMPORARY LIGHTING POLE SHALL BE FURNISHED WITH A GROUND ROD CONNECTION. THIS GROUND ROD IS NOT SHOWN IN PLAN. 5/8" X 10' COPPER CLAD STEEL GROUND ROD, #2 BARE TINNED COPPER DOWN CONDUCTOR, CABLE GUARD TO 10' ABOVE GRADE ARE INCLUDED IN THE TEMPORARY LIGHTING WOOD POLE PAY ITEM. WHERE THERE ARE THREE TEMPORARY POLES CONNECTED TOGETHER, INSTALL A GROUND ROD AT BACK POLE.
- IN ACCORDANCE WITH NEC 225.18 AERIAL CONDUCTOR TO MAINTAIN 18' CLEARANCE ABOVE ROAD SURFACE AT ALL TIMES.
- CONTRACTOR SHALL TURN OFF CIRCUITS AT THE CONTROLLER BEFORE WORKING ON EXISTING LIGHTING UNITS. CONTRACTOR MUST COORDINATE A POWER OUTAGE WITH COMED AT LEAST TWO WEEKS PRIOR TO OUTAGE.

**LIGHTING REMOVAL GENERAL NOTES**


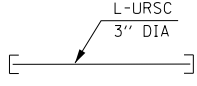








- BRANCH CIRCUIT WIRING FOR EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED AT SOURCE AND REMOVED. REMOVAL OF EXISTING WIRING IS INCLUDED IN THE REMOVAL OF EXISTING EQUIPMENT.
- ALL EXISTING EQUIPMENT THAT ARE TO BE REMOVED SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
- THE REMOVAL OF THE EXISTING CABLE DUCT SHALL BE INCLUDED IN ROADWAY CONSTRUCTION.
- TEMPORARY LIGHTS SHALL BE REMOVED AFTER ALL PROPOSED LIGHT POLES HAVE BEEN INSTALLED AND FULLY FUNCTIONAL OR AS DIRECT BY ENGINEER. REMOVAL OF TEMPORARY LIGHTING UNIT SHALL BE AT NO ADDITIONAL COST TO THIS CONTRACT. REMOVAL WILL INCLUDE ALL ITEMS SUCH AS LUMINAIRE'S, MAST ARM, AERIAL CABLE, WOOD POLES, CABLE DUCT AND MOUNTING HARDWARE.
- EXISTING LIGHT POLES TO BE REMOVED ONLY AFTER TEMPORARY LIGHTING IS INSTALLED AND ENERGIZED.

<b>HNTB</b>	USER NAME = jblakley	DESIGNED KFA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN KFA	REVISED -		90	(1517 & 1415) R-2	COOK	734	315			
	PLOT SCALE = 1.0000' / in.	CHECKED MCD	REVISED -		CONTRACT NO. 60Y39							
	PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. 10+00.00 TO STA. 24+00.00	ILLINOIS FED. AID PROJECT				

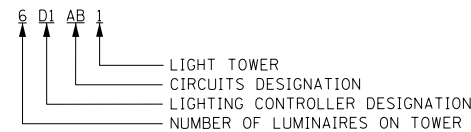
**IDOT LEGEND**

	PROPOSED LIGHTING UNIT 47.5 FT MH, ALUMINUM POLE, 15 FT DAVIT ARM, LED, TYPE C, IES TYPE II, 240V, ON NEW FOUNDATION, AND TRANSFORMER BASE
	PROPOSED LIGHTING UNIT 47.5 FT MH, ALUMINUM POLE, 15 FT DAVIT ARM, HPS, IES TYPE III, 240V, ON NEW FOUNDATION, AND TRANSFORMER BASE
	PROPOSED LIGHTING UNIT 47.5 FT MH, ALUMINUM POLE, 2-6 FT DAVIT ARM, LED, TYPE C, IES TYPE II, 240V, ON NEW FOUNDATION, AND TRANSFORMER BASE (UNLESS NOTED OTHERWISE)
	PROPOSED UNDERPASS LUMINAIRE, LED, TYPE B, IES TYPE IV, 240V, 750mA
	PROPOSED UNDERPASS LUMINAIRE, 70WATT HPS
	EXISTING UNDERPASS LUMINAIRE TO REMAIN
	EXISTING LIGHTING UNIT TO BE USED AS PART OF TEMPORARY LIGHTING AND THEN REMOVED.
	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING HPS LUMINAIRE TO BE REMOVED AND REPLACED WITH PROPOSED LED LUMINAIRE, TYPE C, IES TYPE III, 240V
	EXISTING STANDARD LIGHTING UNIT TO BE REMOVED
	EXISTING LUMINAIRE TO BE USED AS PART OF TEMPORARY LIGHTING AND THEN REMOVED
	PROPOSED TEMPORARY LIGHTING UNIT, 1000W HIGH MAST LUMINAIRE, 240V, MCII HPS, 15 FT MA, 80 FT MH ON 100 FT. WOOD POLE, CLASS 2
	EXISTING ELECTRICAL JUNCTION BOX TO REMAIN
	ELECTRICAL JUNCTION BOX 24" X 24" X 10" ATTACHED TO STRUCTURE
	ELECTRICAL JUNCTION BOX 18" X 18" X 8" ATTACHED TO STRUCTURE
	ELECTRICAL JUNCTION BOX 12" X 10" X 6" ATTACHED TO STRUCTURE
	ELECTRICAL JUNCTION BOX 6" X 6" X 4" ATTACHED TO STRUCTURE
	EXISTING LIGHT TOWER TO BE REMOVED
	EXISTING LIGHT TOWER TO REMAIN
	PROPOSED LIGHTING TOWER, 120 FT. MOUNTING HEIGHT, 6 LUMINAIRES, MC-III TYPE, 400 HPS
	TOWER HANDHOLE ORIENTATION

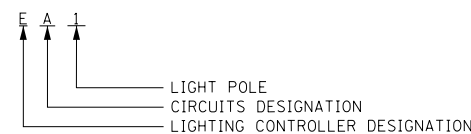
**IDOT LEGEND CONT'D**

	GROUND ROD 5/8" DIA. X 10'
	3" RIGID GALVANIZED STEEL CONDUIT SLEEVE BELOW PAVEMENT L-LENGTH U-UNDERGROUND R-RIGID S-STEEL C-CONDUIT
	UNIT DUCT, 1 1/2" DIA POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), (UNLESS NOTED OTHERWISE)
	AERIAL CABLE, 3-1/C #2, ALUMINIUM, WITH MESSENGER WIRE
	EXISTING IDOT LIGHTING CONTROLLER TO REMAIN
	TEMPORARY WOOD POLE - 80 FT MH, CLASS 2
	JUNCTION BOX, NONMETALLIC, 18" X 12" X 8" EMBEDDED IN STRUCTURE
	JUNCTION BOX, NONMETALLIC, 24" X 12" X 8" EMBEDDED IN STRUCTURE
	JUNCTION BOX, NONMETALLIC, EMBEDDED IN STRUCTURE SEE STRUCTURE PLANS FOR SIZING AND LOCATION
	EXISTING IDOT ELECTRICAL HANDHOLE TO REMAIN

**LIGHT TOWER DESIGNATION**



**LIGHT POLE DESIGNATION**



**IDOT LIGHTING BILL OF MATERIALS**

PAY ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	634
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	1590
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	165
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	2420
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	29
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	11
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	1
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	14961
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	4770
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	4032
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	16128
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	17112
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	3
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT	EACH	42
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	6
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	44
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-6 FT. DAVIT ARMS	EACH	12
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-12 FT. DAVIT ARMS	EACH	4
LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	7
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	532
LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	140
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	63
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	79
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	87
REMOVAL OF POLE FOUNDATION	EACH	87
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	113
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18
WOOD POLE, 100 FT, CLASS 2	EACH	79
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	113
LUMINAIRE, UNDERPASS, LED, TYPE B	EACH	23
JUNCTION BOX EMBEDDED IN STRUCTURE, SPECIAL	EACH	7
TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 1000 WATT	EACH	77
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	26
REMOVAL OF LIGHT TOWER, SALVAGE	EACH	7
REMOVAL OF TOWER FOUNDATION	EACH	7
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	77

- LUMINAIRE SAFETY CABLE MUST BE INSTALLED WITH ALL PROPOSED LIGHT POLES
- EXISTING LIGHT TOWER SHALL BE REMOVED WITH NO SALVAGE EXCEPT EXISTING LIGHT TOWER LUMINAIRES. EXISTING LIGHT TOWER LUMINAIRES MUST BE SALVAGED AND RETURNED TO IDOT.



USER NAME = jblakley	DESIGNED KFA/SM	REVISED - -
	DRAWN AA	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

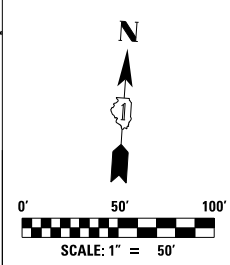
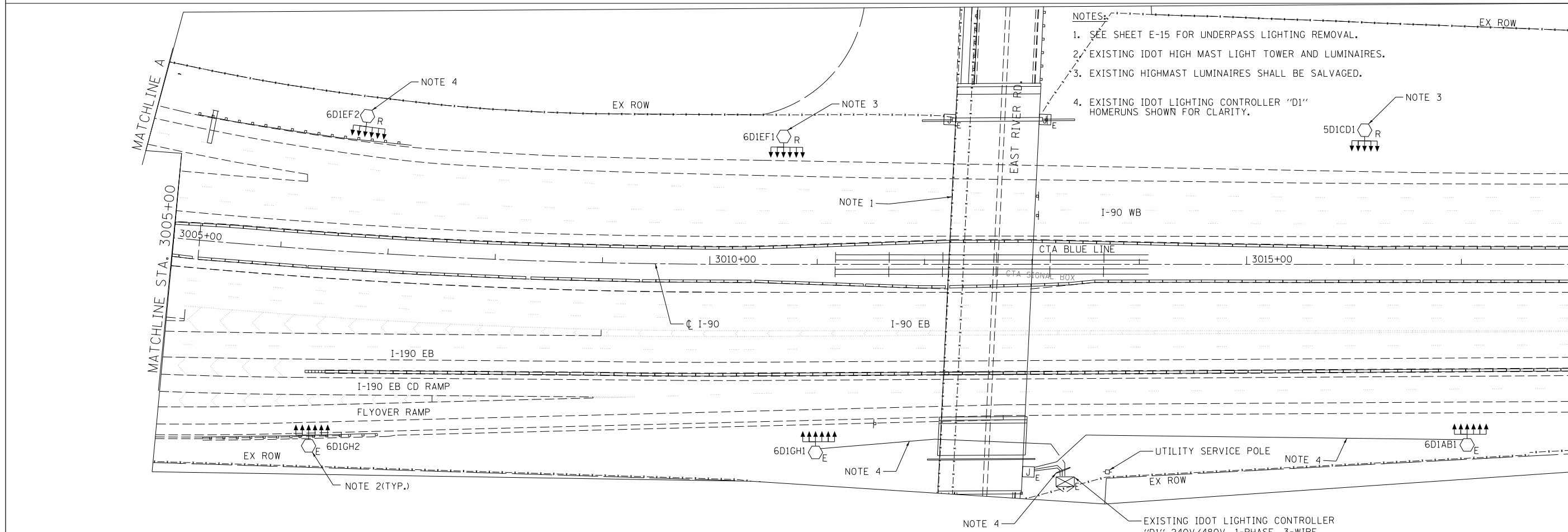
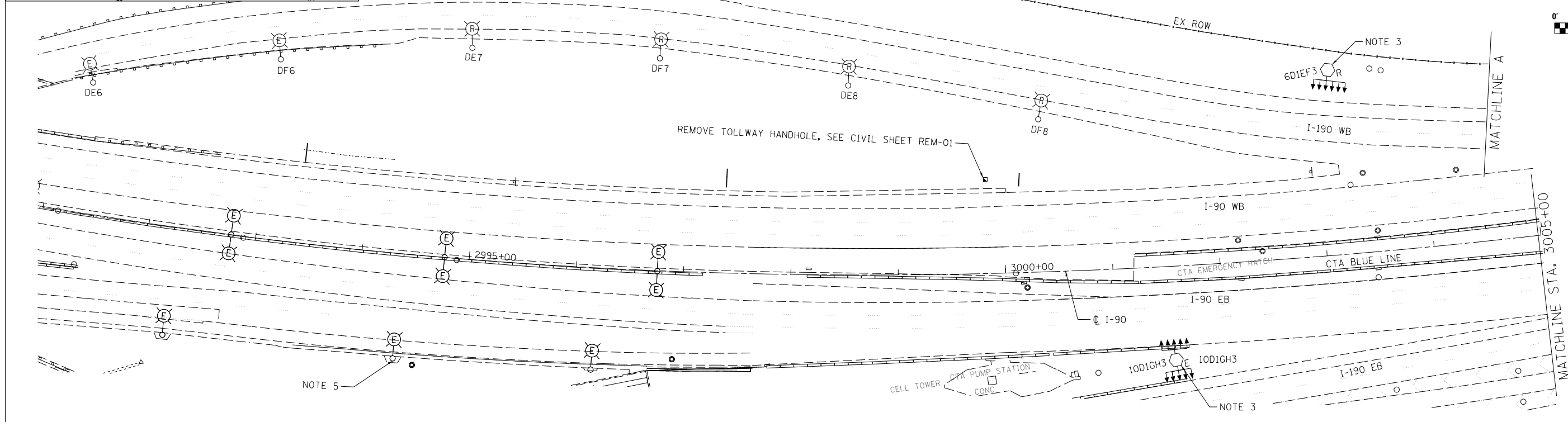
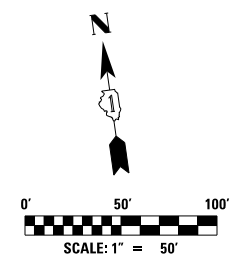
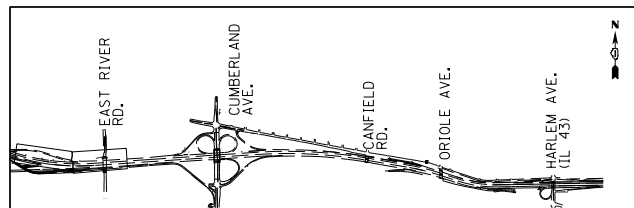
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING GENERAL LEGEND AND BILL OF MATERIALS  
I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	316
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	





- NOTES:
- SEE SHEET E-15 FOR UNDERPASS LIGHTING REMOVAL.
  - EXISTING IDOT HIGH MAST LIGHT TOWER AND LUMINAIRES.
  - EXISTING HIGHMAST LUMINAIRES SHALL BE SALVAGED.
  - EXISTING IDOT LIGHTING CONTROLLER "D1" HOMERUNS SHOWN FOR CLARITY.



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1/80" / 1"	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

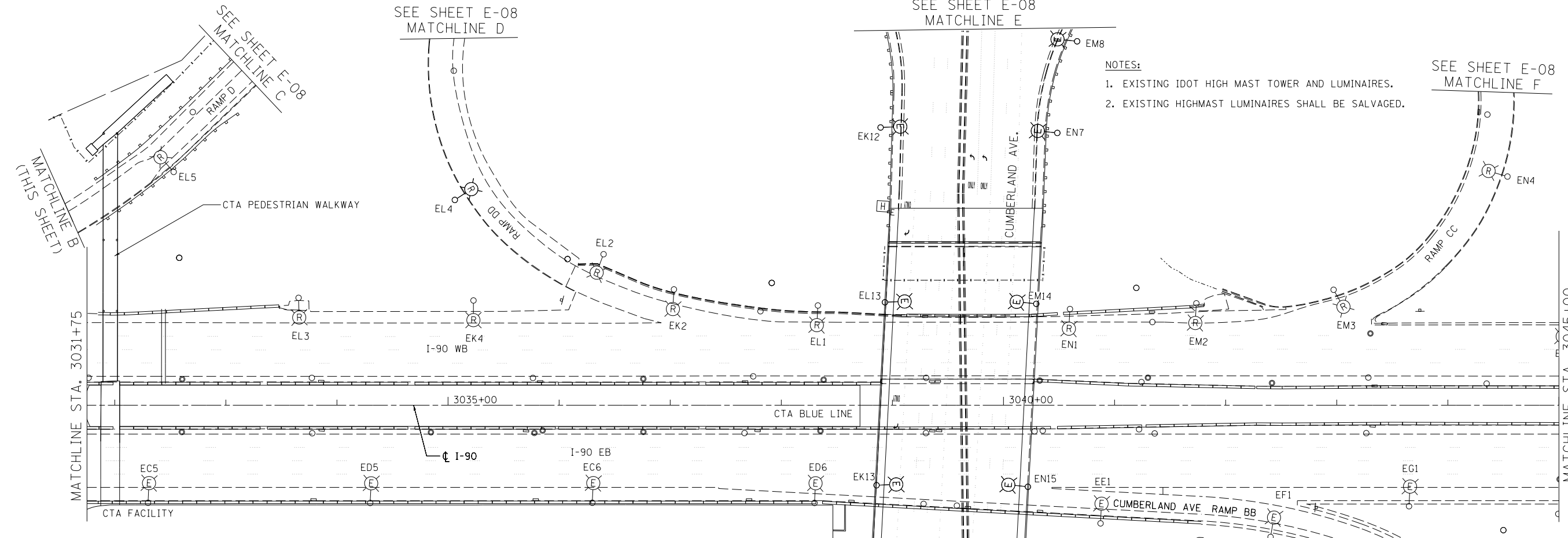
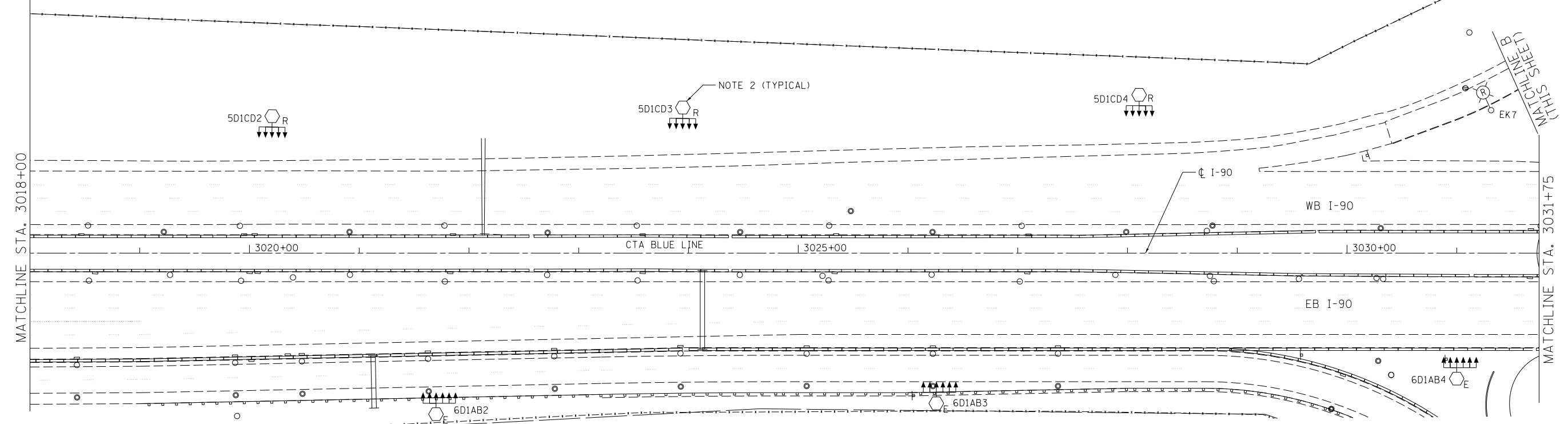
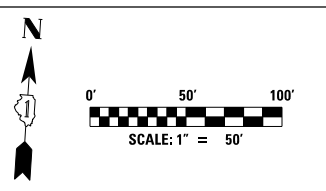
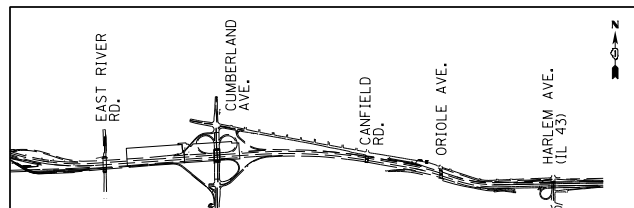
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT LIGHTING REMOVAL PLAN**

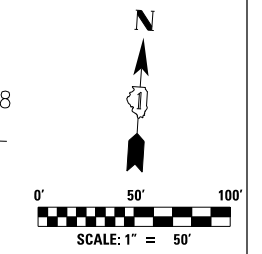
SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	317
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

**E-03**



- NOTES:
- EXISTING IDOT HIGH MAST TOWER AND LUMINAIRES.
  - EXISTING HIGHMAST LUMINAIRES SHALL BE SALVAGED.



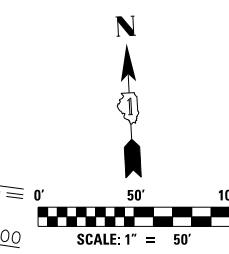
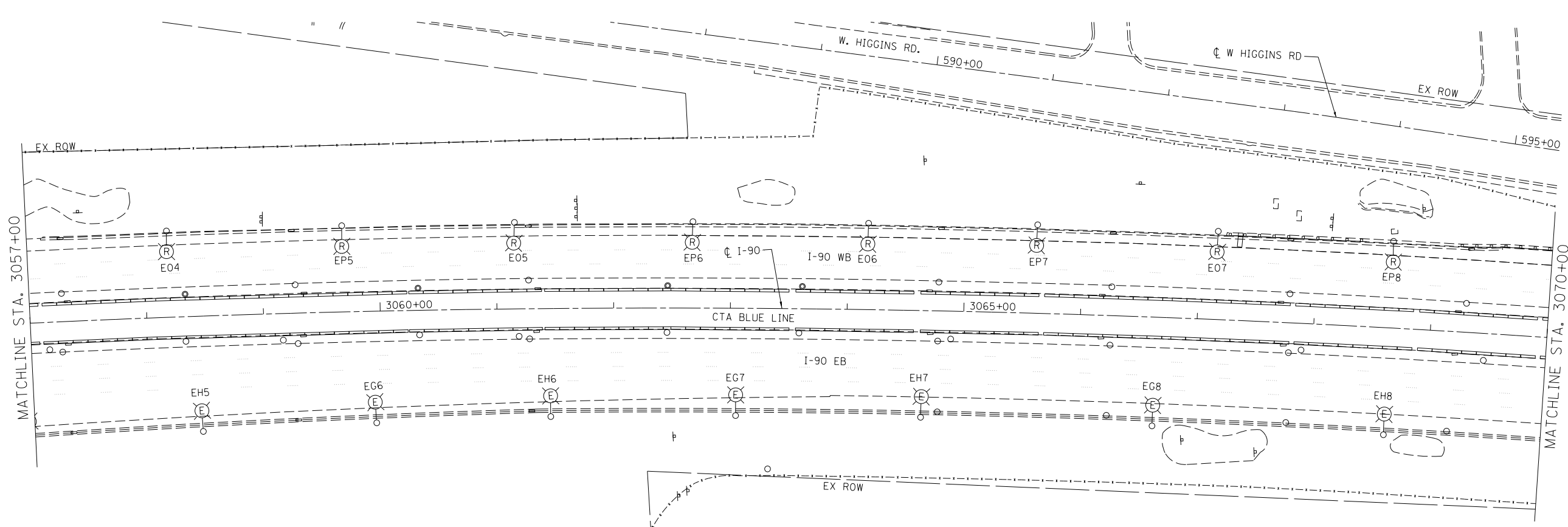
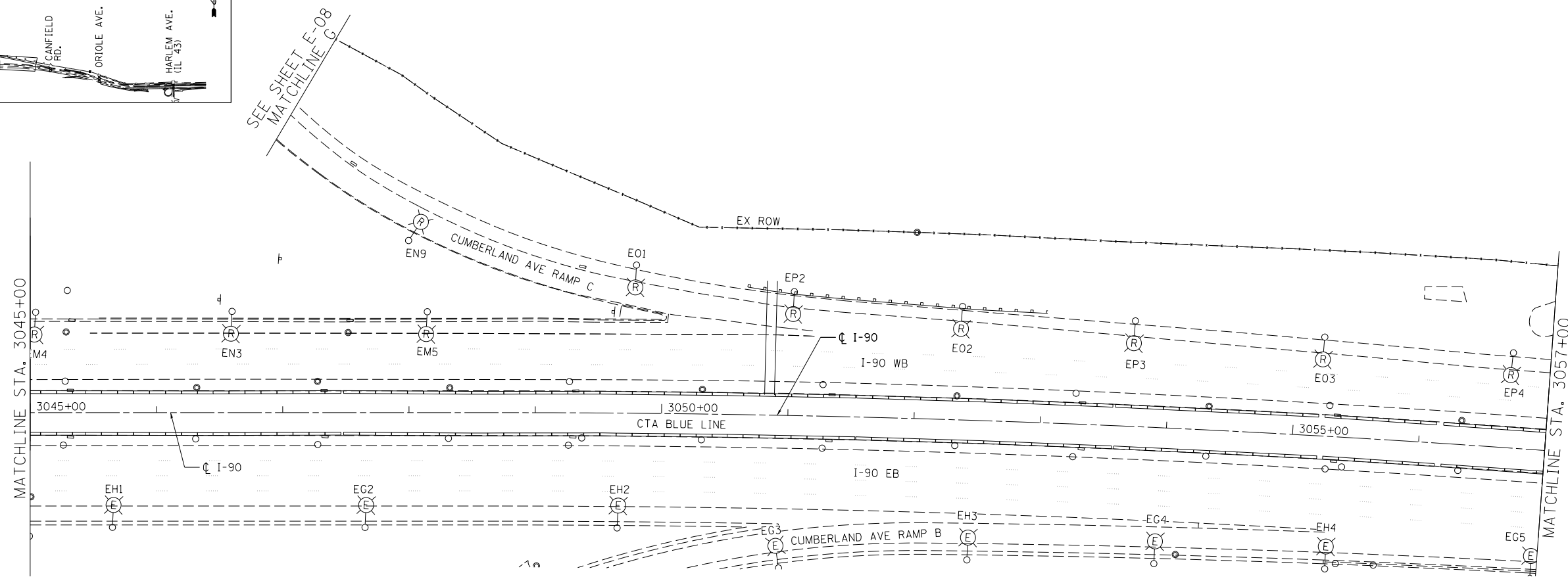
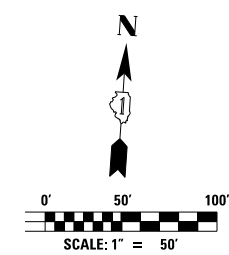
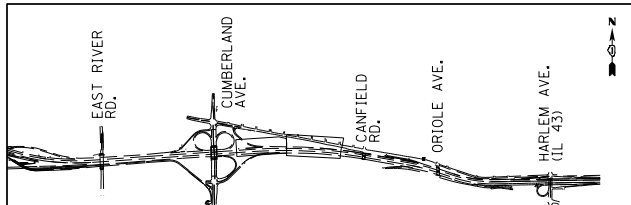
USER NAME = jblakley	DESIGNED KFA	REVISED -
DRAWN KFA	REVISED -	
PLOT SCALE = 1/80" / 1"	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT LIGHTING REMOVAL PLAN**

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

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 318
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



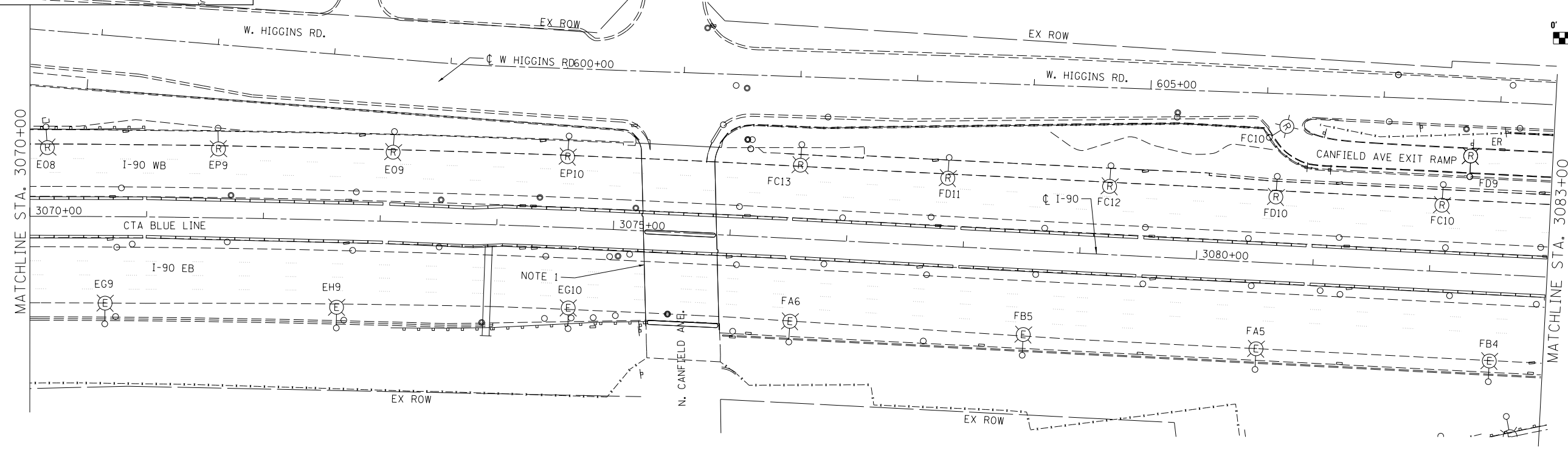
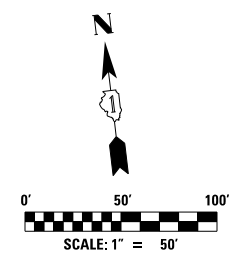
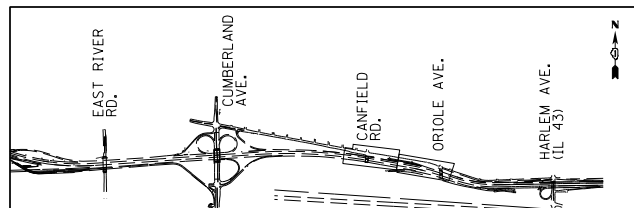
USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

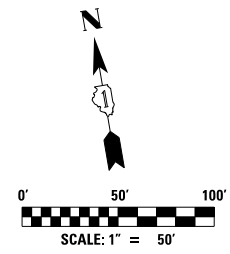
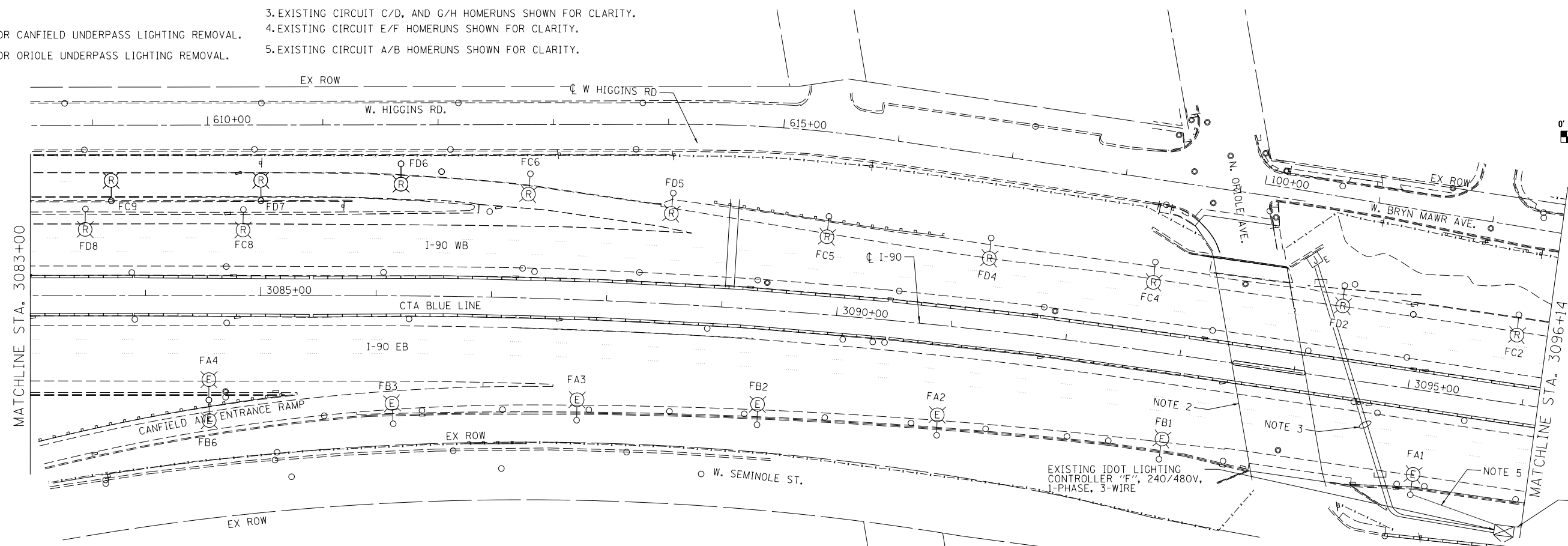
**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE  
IDOT LIGHTING REMOVAL PLAN**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	319
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.



- NOTES:**
- SEE SHEET E-17 FOR CANFIELD UNDERPASS LIGHTING REMOVAL.
  - SEE SHEET E-18 FOR ORIOLE UNDERPASS LIGHTING REMOVAL.
  - EXISTING CIRCUIT C/D, AND G/H HOMERUNS SHOWN FOR CLARITY.
  - EXISTING CIRCUIT E/F HOMERUNS SHOWN FOR CLARITY.
  - EXISTING CIRCUIT A/B HOMERUNS SHOWN FOR CLARITY.



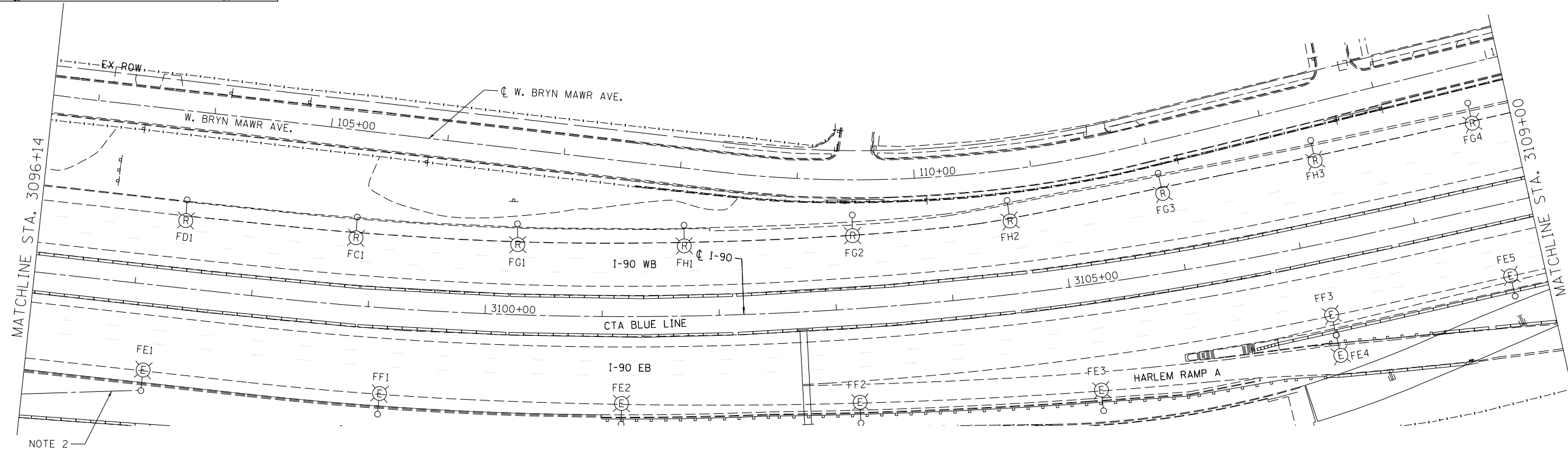
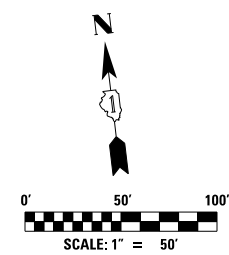
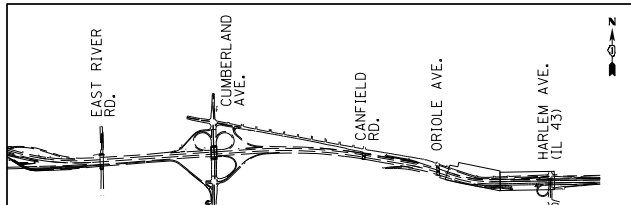
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	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

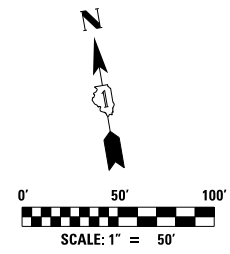
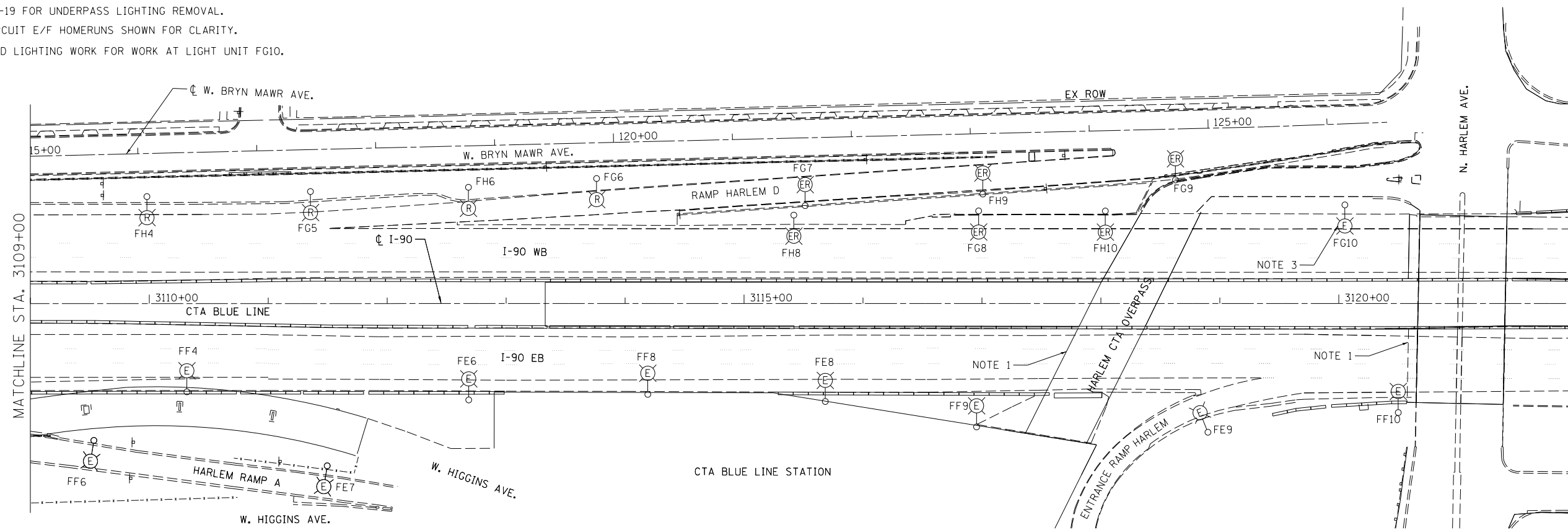
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT LIGHTING REMOVAL PLAN**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 320
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

FILE NAME = D160Y39-shr-1sg-E06.dgn



- NOTES:
1. SEE SHEET E-19 FOR UNDERPASS LIGHTING REMOVAL.
  2. EXISTING CIRCUIT E/F HOMERUNS SHOWN FOR CLARITY.
  3. SEE PROPOSED LIGHTING WORK FOR WORK AT LIGHT UNIT FG10.



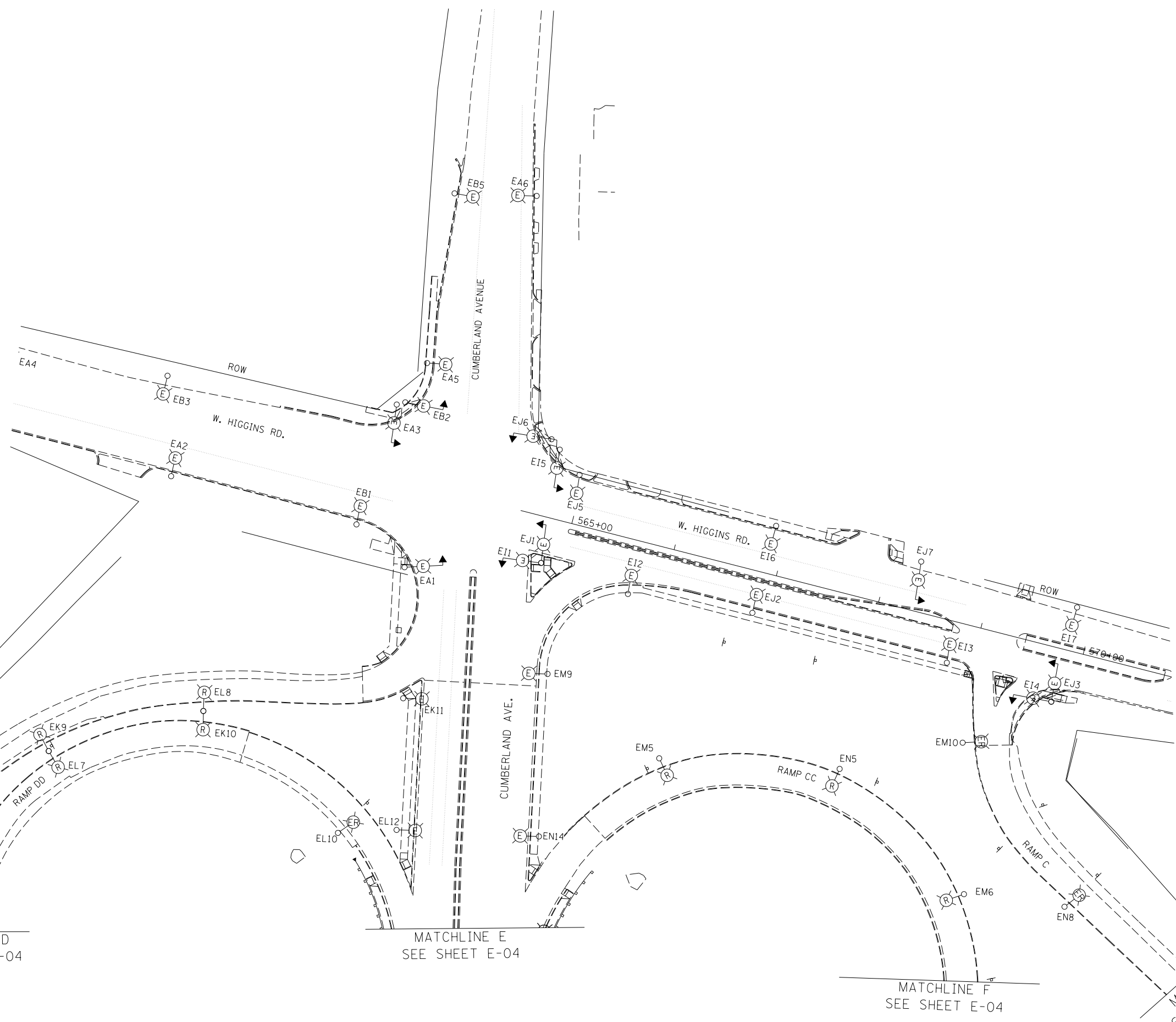
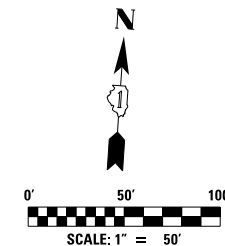
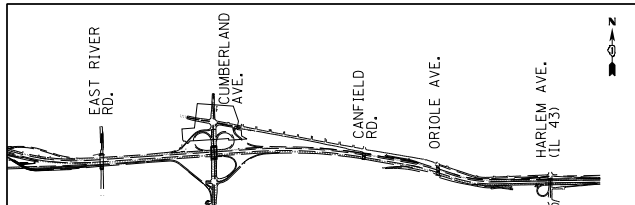
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	DRAWN KFA	REVISED -
PLOT SCALE = 1:80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT LIGHTING REMOVAL PLAN**

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

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 321
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT



MATCHLINE C  
SEE SHEET E-04

MATCHLINE D  
SEE SHEET E-04

MATCHLINE E  
SEE SHEET E-04

MATCHLINE F  
SEE SHEET E-04

MATCHLINE G  
SEE SHEET E-05



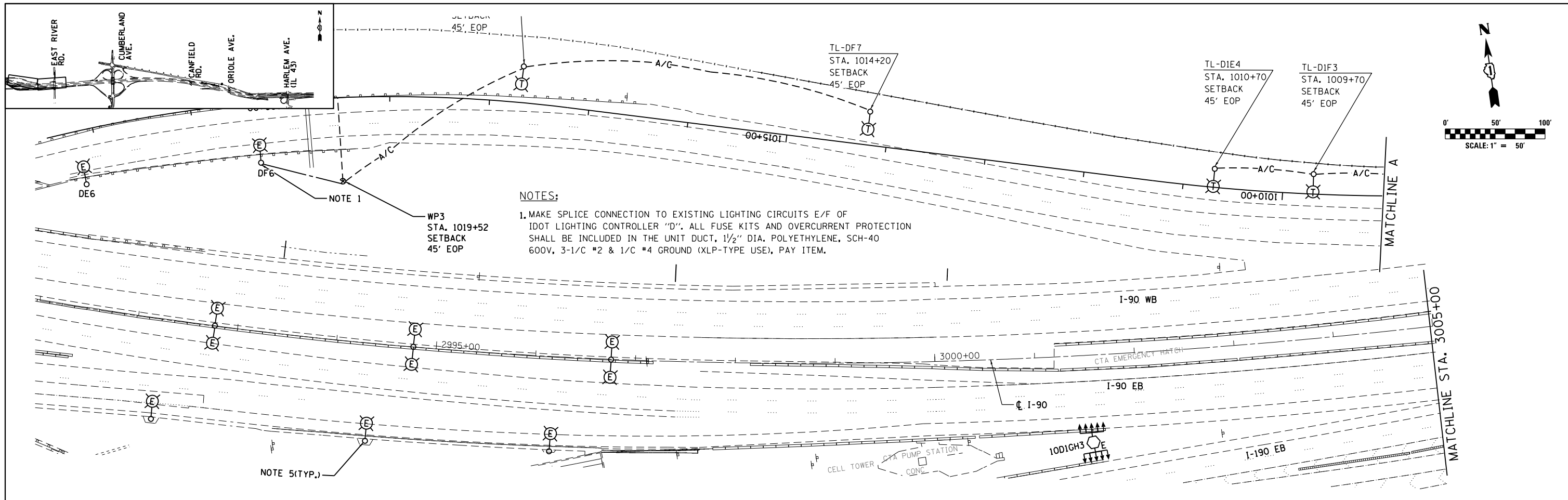
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	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

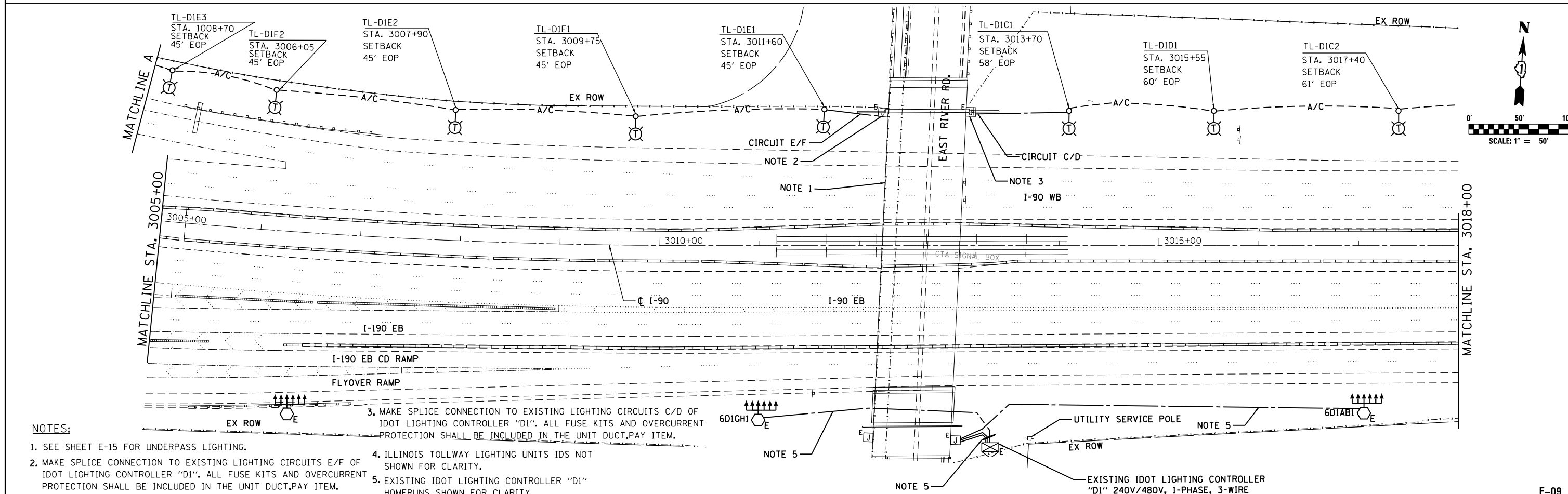
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT LIGHTING REMOVAL PLAN**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	322
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



**NOTES:**  
 1. MAKE SPLICE CONNECTION TO EXISTING LIGHTING CIRCUITS E/F OF IDOT LIGHTING CONTROLLER "D". ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/2 #2 & 1/2 #4 GROUND (XLP-TYPE USE), PAY ITEM.



**NOTES:**  
 1. SEE SHEET E-15 FOR UNDERPASS LIGHTING.  
 2. MAKE SPLICE CONNECTION TO EXISTING LIGHTING CIRCUITS E/F OF IDOT LIGHTING CONTROLLER "D1". ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, PAY ITEM.  
 3. MAKE SPLICE CONNECTION TO EXISTING LIGHTING CIRCUITS C/D OF IDOT LIGHTING CONTROLLER "D1". ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, PAY ITEM.  
 4. ILLINOIS TOLLWAY LIGHTING UNITS IDS NOT SHOWN FOR CLARITY.  
 5. EXISTING IDOT LIGHTING CONTROLLER "D1" HOMERUNS SHOWN FOR CLARITY.



USER NAME = mamiller	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 2.00" / in.	CHECKED MCD	REVISED -
PLOT DATE = 3/15/2018	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

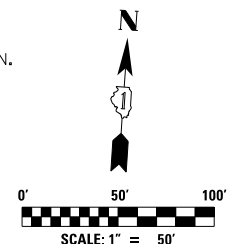
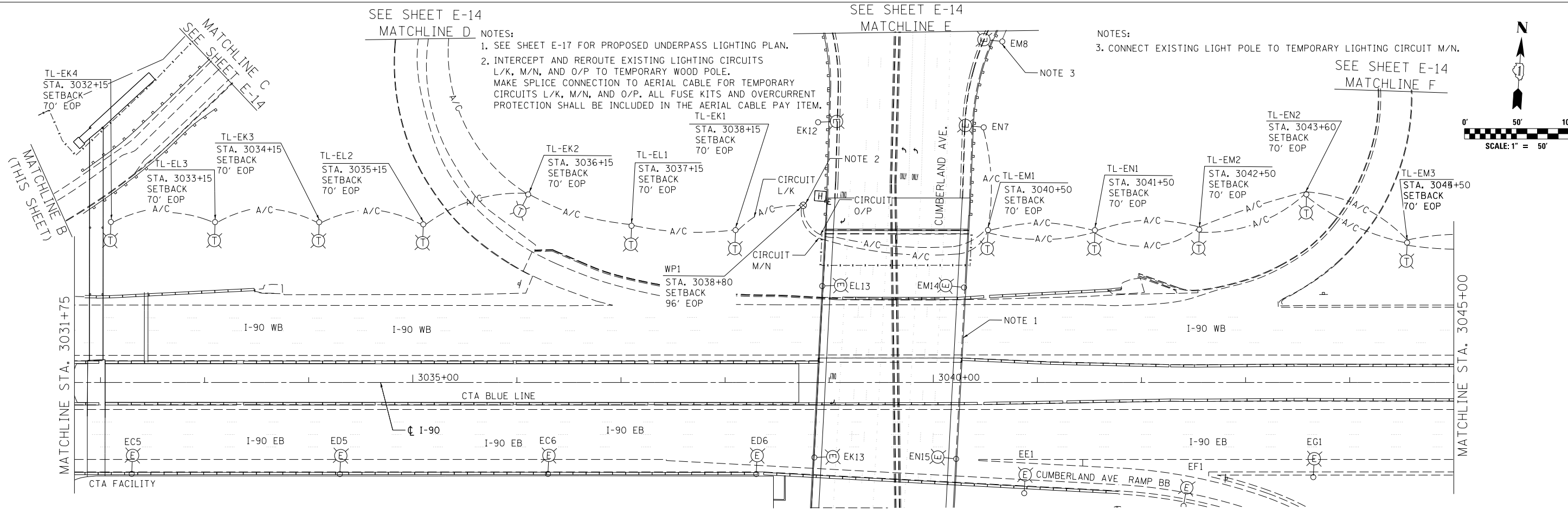
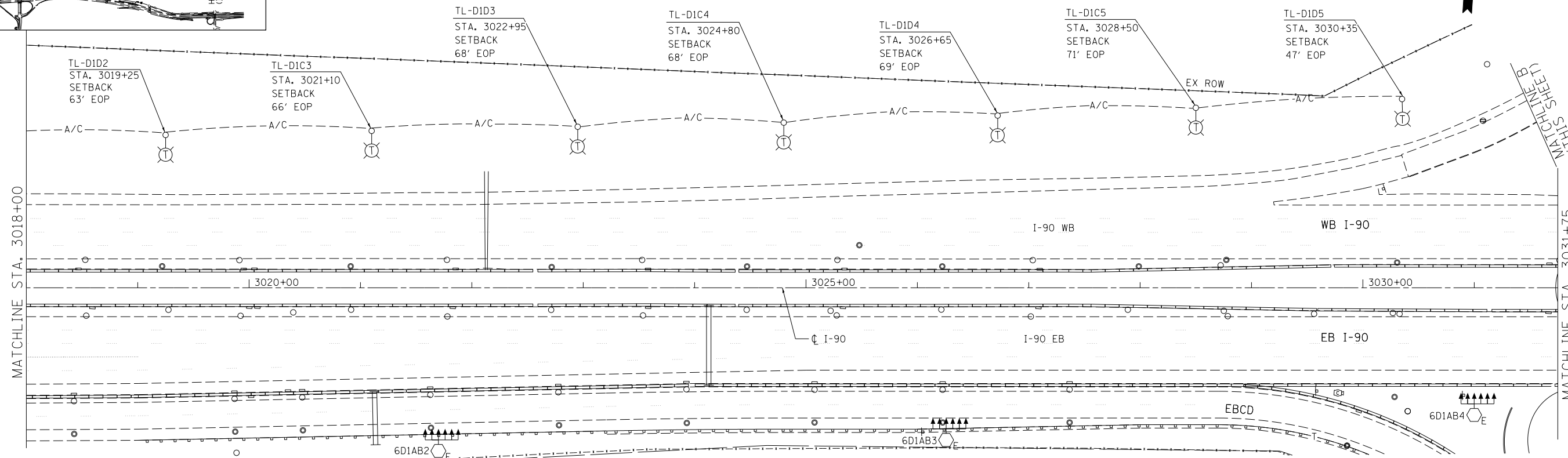
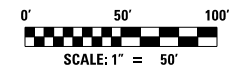
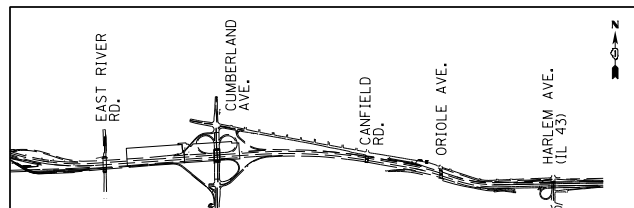
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
 IDOT TEMPORARY LIGHTING AND REMOVAL PLAN**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 323
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT

FILE NAME = D160Y39-shr-1sg-E09.dgn

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

E-09



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

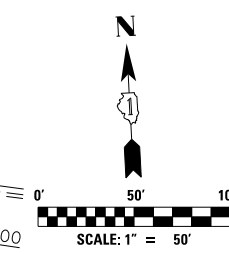
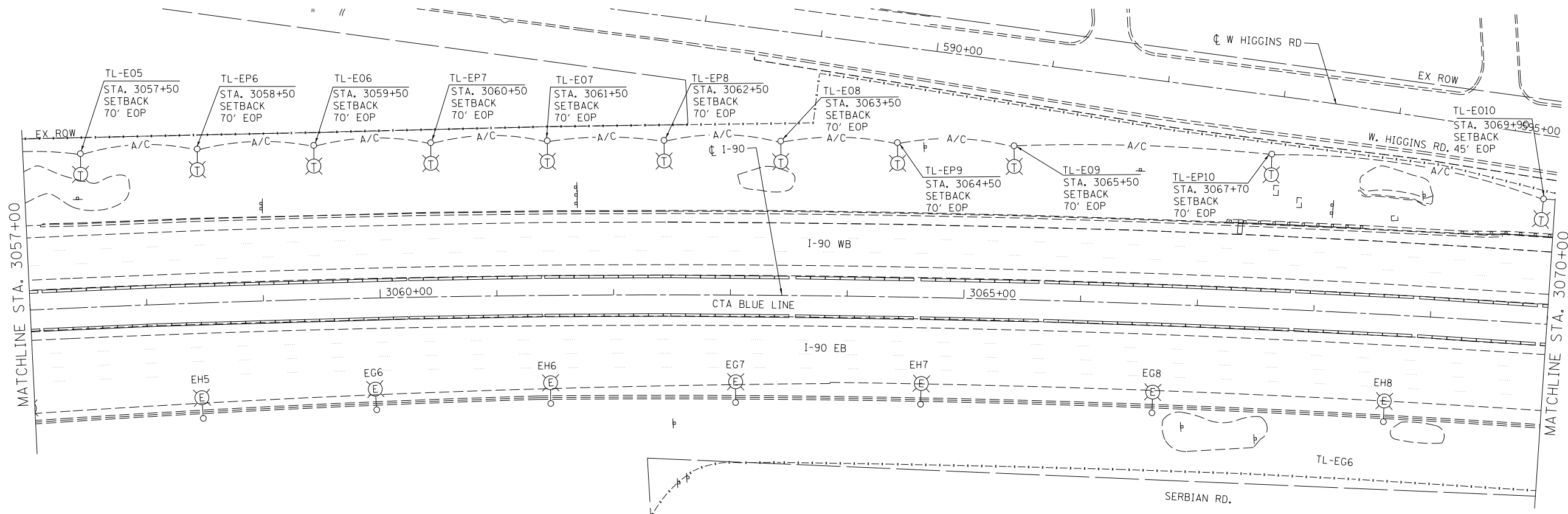
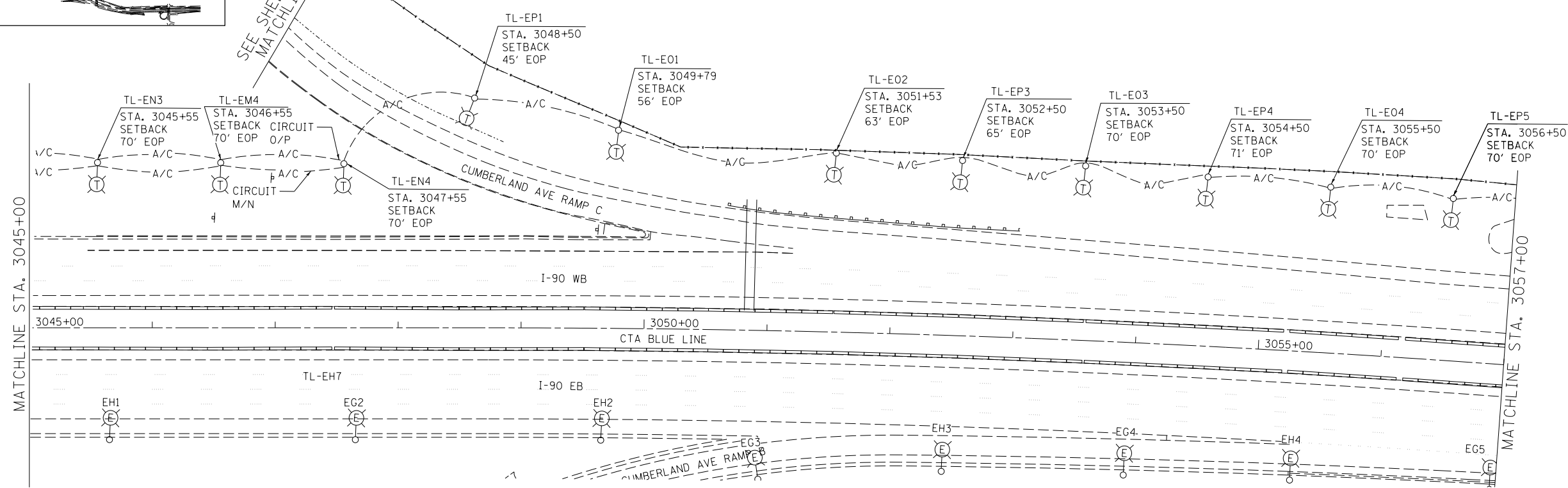
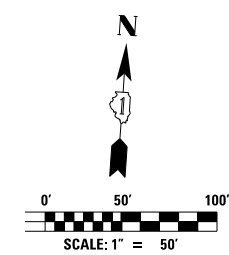
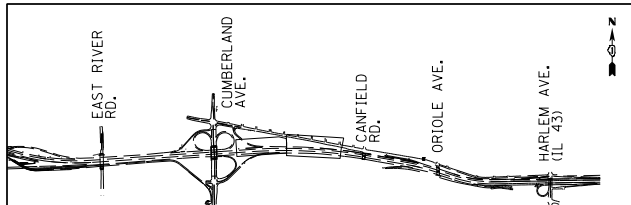
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT TEMPORARY LIGHTING AND REMOVAL PLAN**

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

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 324
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	





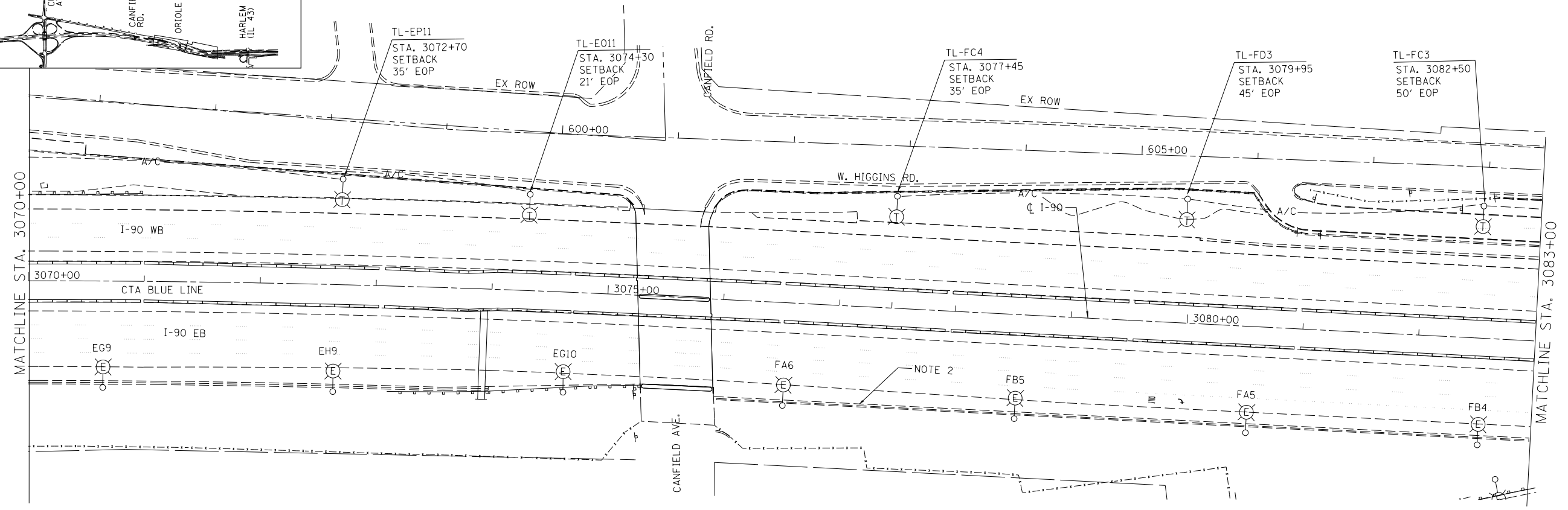
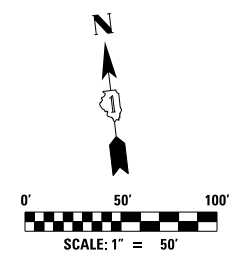
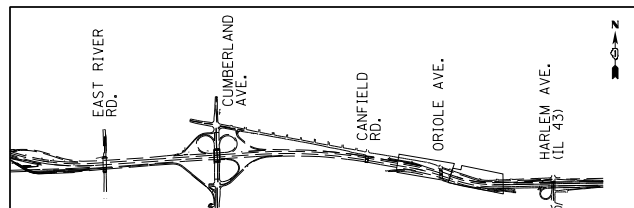
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	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

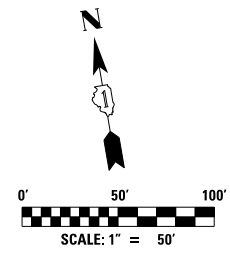
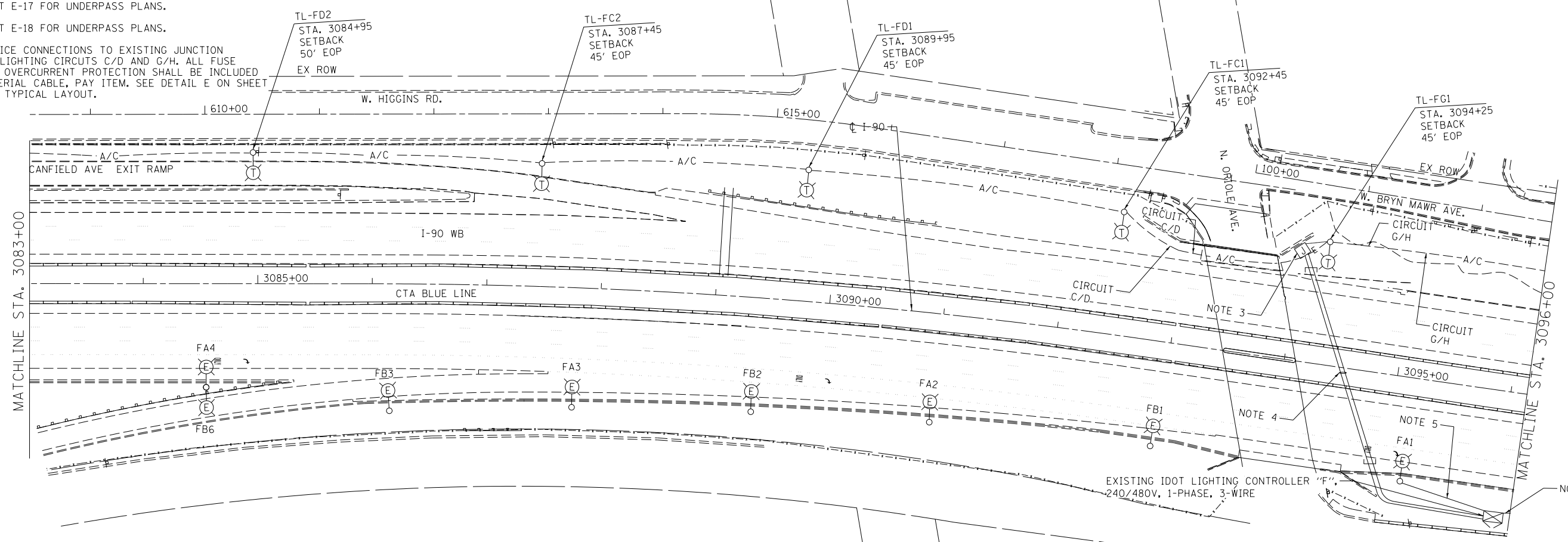
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT TEMPORARY LIGHTING AND REMOVAL PLAN**

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	325
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



NOTES:  
 1. SEE SHEET E-17 FOR UNDERPASS PLANS.  
 2. SEE SHEET E-18 FOR UNDERPASS PLANS.  
 3. MAKE SPLICE CONNECTIONS TO EXISTING JUNCTION BOX FOR LIGHTING CIRCUITS C/D AND G/H. ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE AERIAL CABLE, PAY ITEM. SEE DETAIL E ON SHEET E-43 FOR TYPICAL LAYOUT.  
 4. EXISTING CIRCUIT C/D, AND G/H HOMERUNS SHOWN FOR CLARITY.  
 5. EXISTING CIRCUIT A/B HOMERUNS SHOWN FOR CLARITY.  
 6. EXISTING CIRCUIT E/F HOMERUNS SHOWN FOR CLARITY.



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

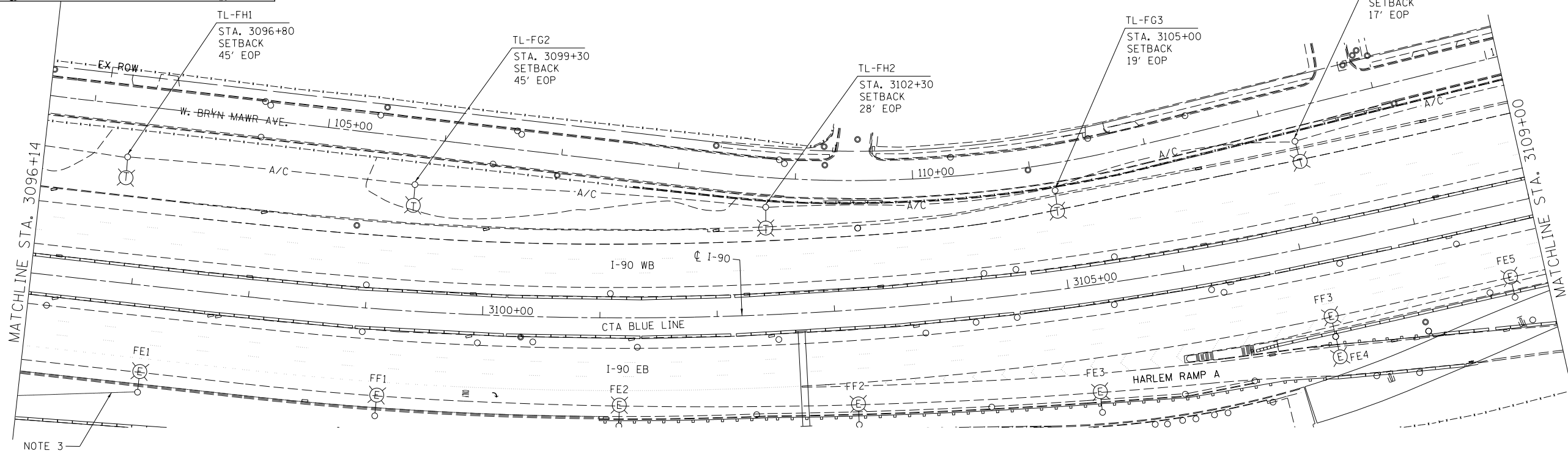
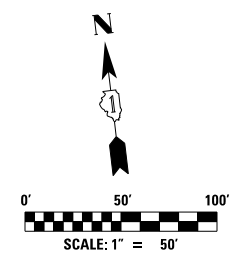
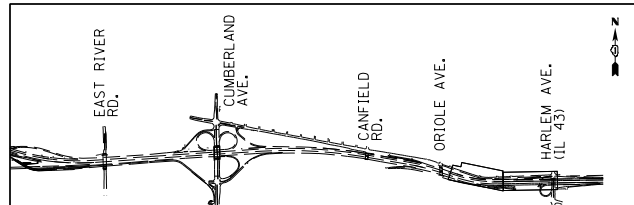
I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT TEMPORARY LIGHTING AND REMOVAL PLAN

SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

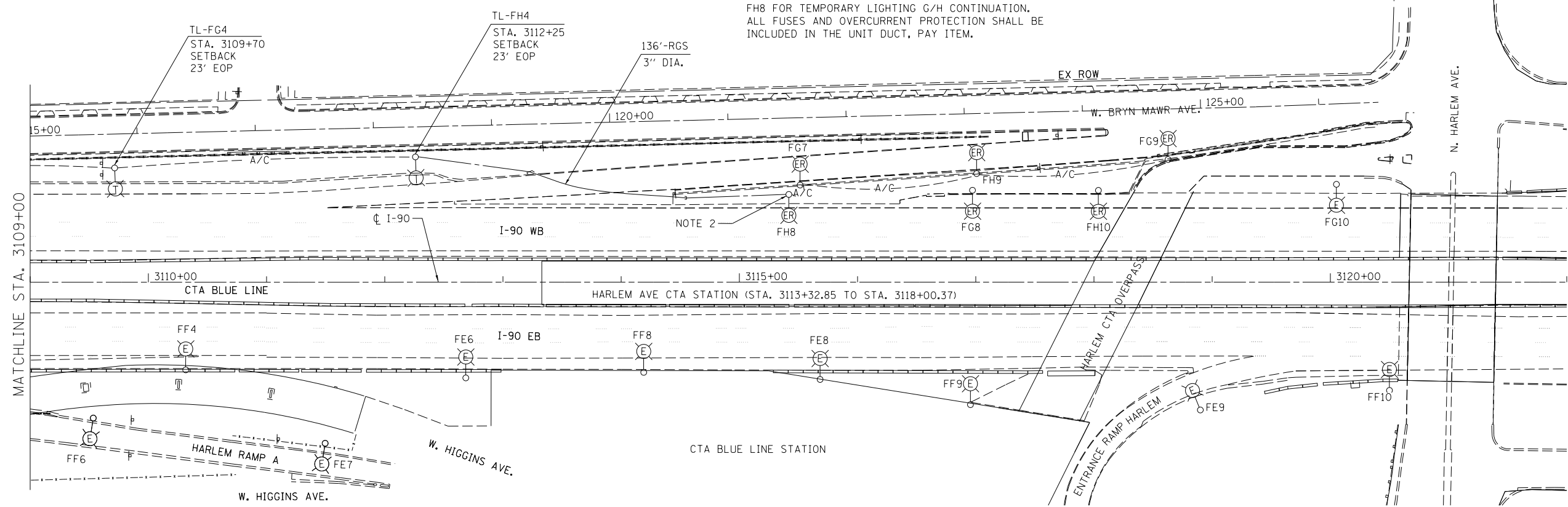
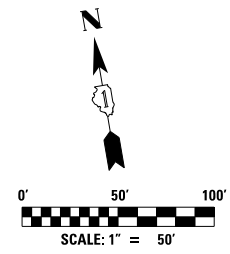
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 326
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

FILE NAME = D168Y39-shr-1sg-E12.dgn

E-12



**NOTES:**  
 1. SEE SHEET E-19 FOR UNDERPASS LIGHTING PLAN.  
 2. MAKE SPLICE CONNECTION AT EXISTING LIGHTING UNIT FH8 FOR TEMPORARY LIGHTING G/H CONTINUATION. ALL FUSES AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, PAY ITEM.  
 3. EXISTING CIRCUIT E/F HOMERUNS SHOWN FOR CLARITY.

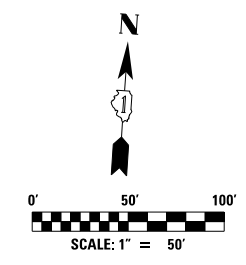
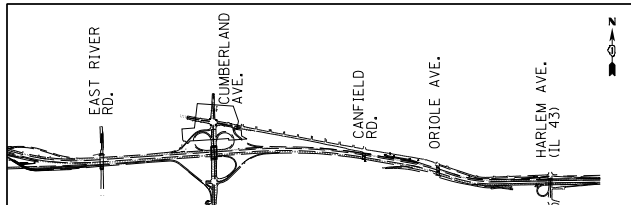


USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

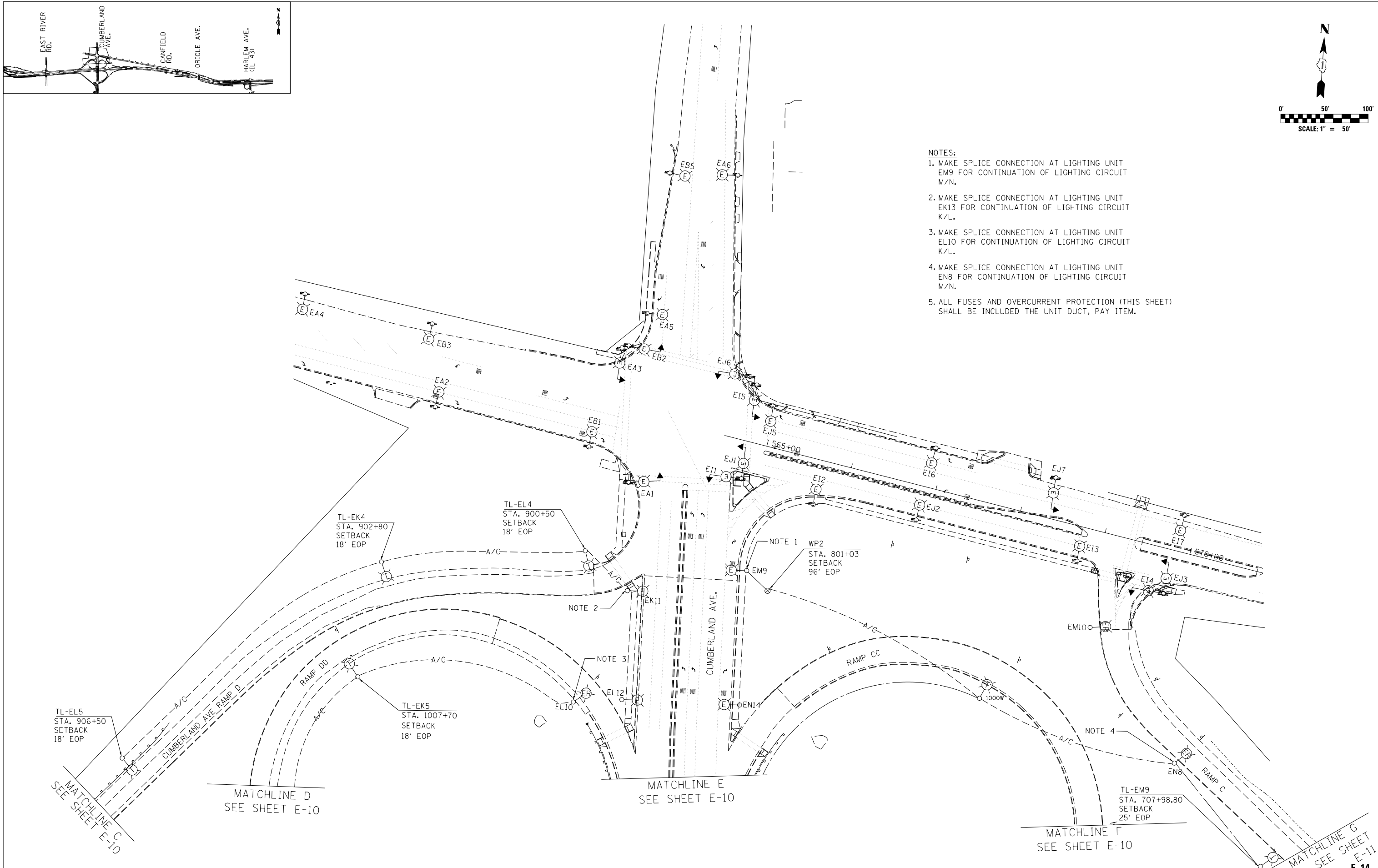
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT TEMPORARY LIGHTING AND REMOVAL PLAN**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 327
CONTRACT NO. 60Y39				ILLINOIS FED. AID PROJECT



- NOTES:**
1. MAKE SPLICE CONNECTION AT LIGHTING UNIT EM9 FOR CONTINUATION OF LIGHTING CIRCUIT M/N.
  2. MAKE SPLICE CONNECTION AT LIGHTING UNIT EK13 FOR CONTINUATION OF LIGHTING CIRCUIT K/L.
  3. MAKE SPLICE CONNECTION AT LIGHTING UNIT EL10 FOR CONTINUATION OF LIGHTING CIRCUIT K/L.
  4. MAKE SPLICE CONNECTION AT LIGHTING UNIT EN8 FOR CONTINUATION OF LIGHTING CIRCUIT M/N.
  5. ALL FUSES AND OVERCURRENT PROTECTION (THIS SHEET) SHALL BE INCLUDED THE UNIT DUCT, PAY ITEM.



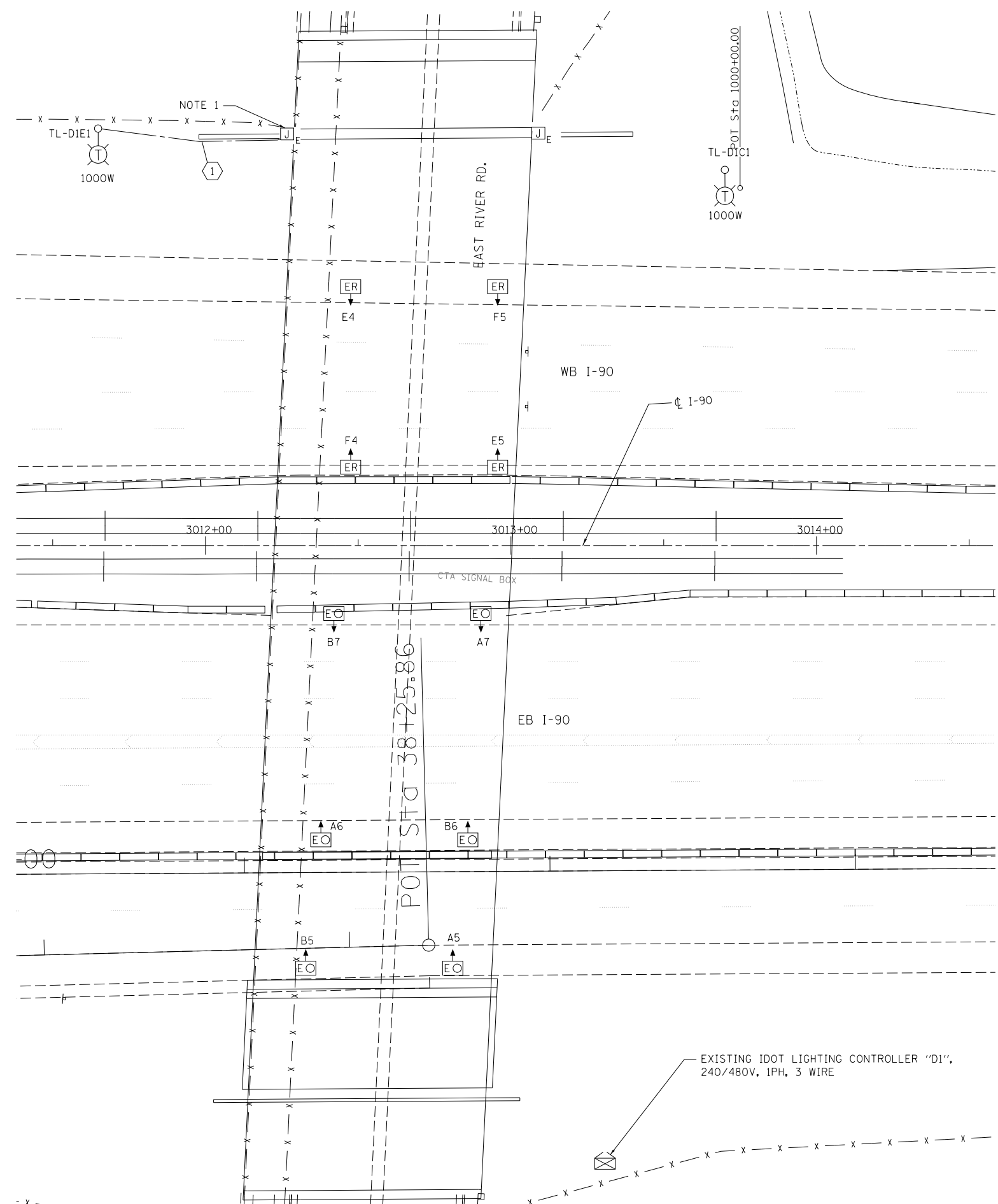
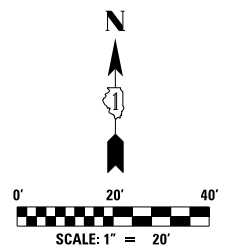
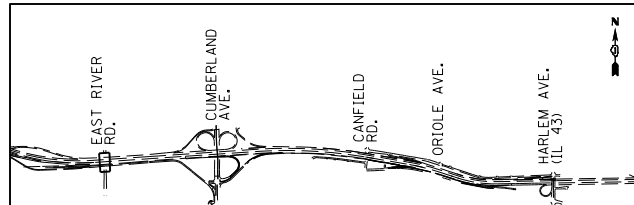
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	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT TEMPORARY LIGHTING AND REMOVAL PLAN**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	328
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. MAKE SPLICE CONNECTIONS TO EXISTING LIGHTING CIRCUIT E/F CONDUCTORS FOR TEMPORARY LIGHTING FEED TO UNDERPASS LUMINAIRES. SEE DETAIL B ON SHEET E-43 FOR TYPICAL DETAIL.
2. PROPOSED TEMPORARY CABLE CONNECTIONS OMITTED FOR CLARITY, SEE SHEET E-09 FOR CONTINUATION.
3. THE REMOVAL OF UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF LIGHTING CONDUCTORS, CONDUITS, JUNCTION BOX, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. SOME EXISTING JUNCTION BOXES SHALL REMAIN AND BE USED FOR FUTURE UNDERPASS LIGHTING CONNECTION. SEE FINAL LIGHTING PLANS FOR DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS UNIT, NO SALVAGE."

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	TEMPORARY LIGHTING CONDUIT, UNIT DUCT, 1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE)

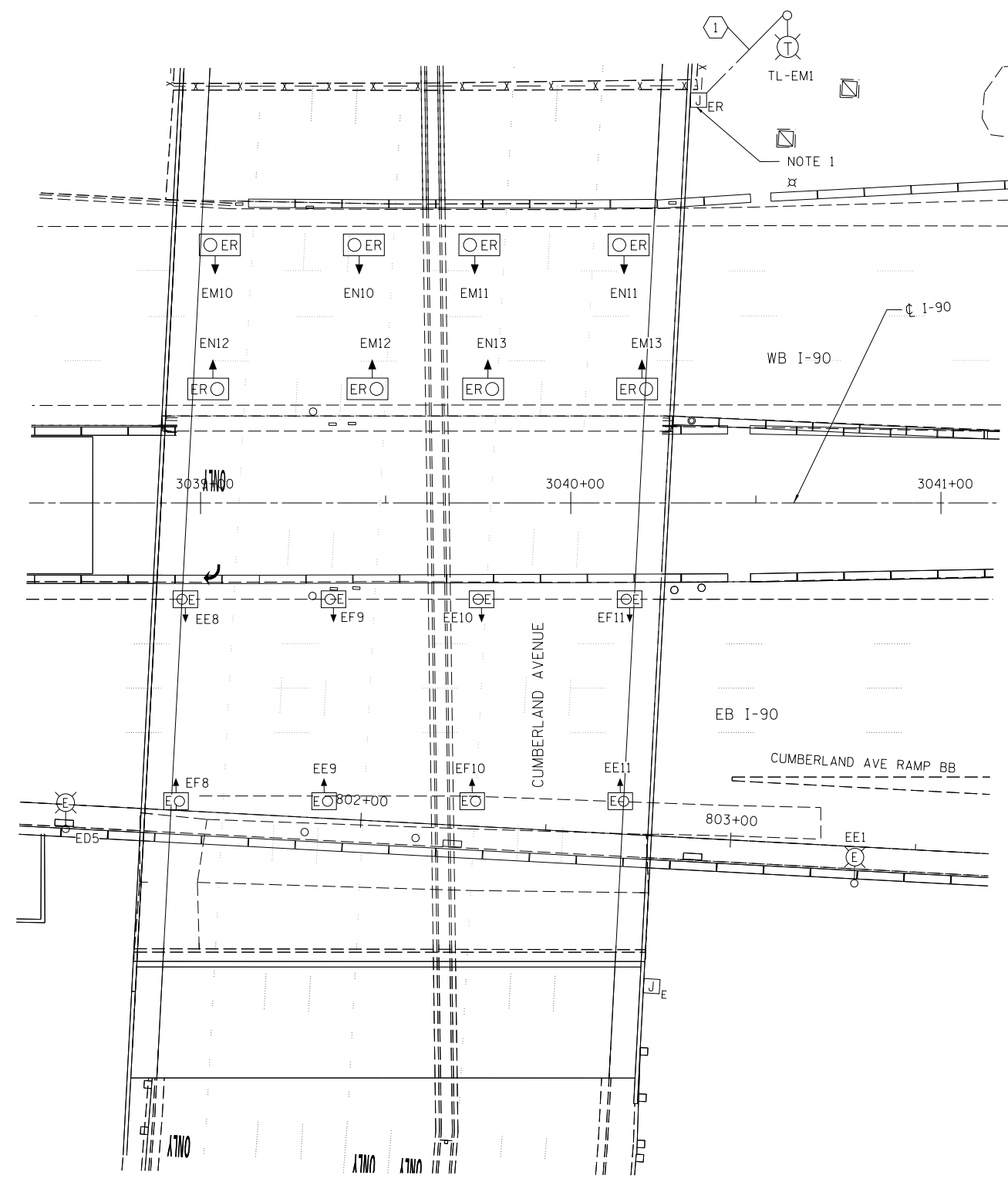
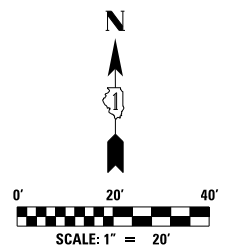
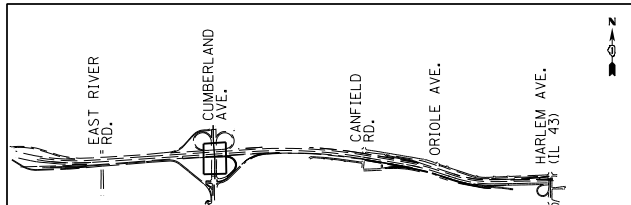


USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS TEMPORARY LIGHTING AND REMOVAL PLAN  
EAST RIVER ROAD OVER WESTBOUND I-90**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 329
SCALE: 1"=20"				SHEET NO. 1 OF 1 SHEETS
STA. 3057+00 TO STA. 3083+00			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. MAKE SPLICE CONNECTIONS TO EXISTING LIGHTING CIRCUIT M/N CONDUCTORS FOR TEMPORARY LIGHTING FEED TO UNDERPASS LUMINAIRES. SEE DETAIL B ON SHEET E-43 FOR TYPICAL DETAIL.
2. PROPOSED TEMPORARY CABLE CONNECTIONS OMITTED FOR CLARITY, SEE SHEET E-09 FOR CONTINUATION.
3. THE REMOVAL OF UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF LIGHTING CONDUCTORS, CONDUITS, JUNCTION BOX, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. SOME EXISTING JUNCTION BOXES SHALL REMAIN AND BE USED FOR FUTURE UNDERPASS LIGHTING CONNECTION. SEE FINAL LIGHTING PLANS FOR DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS UNIT, NO SALVAGE."

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	TEMPORARY LIGHTING CONDUIT, UNIT DUCT, 1 1/2" DIA, POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE)



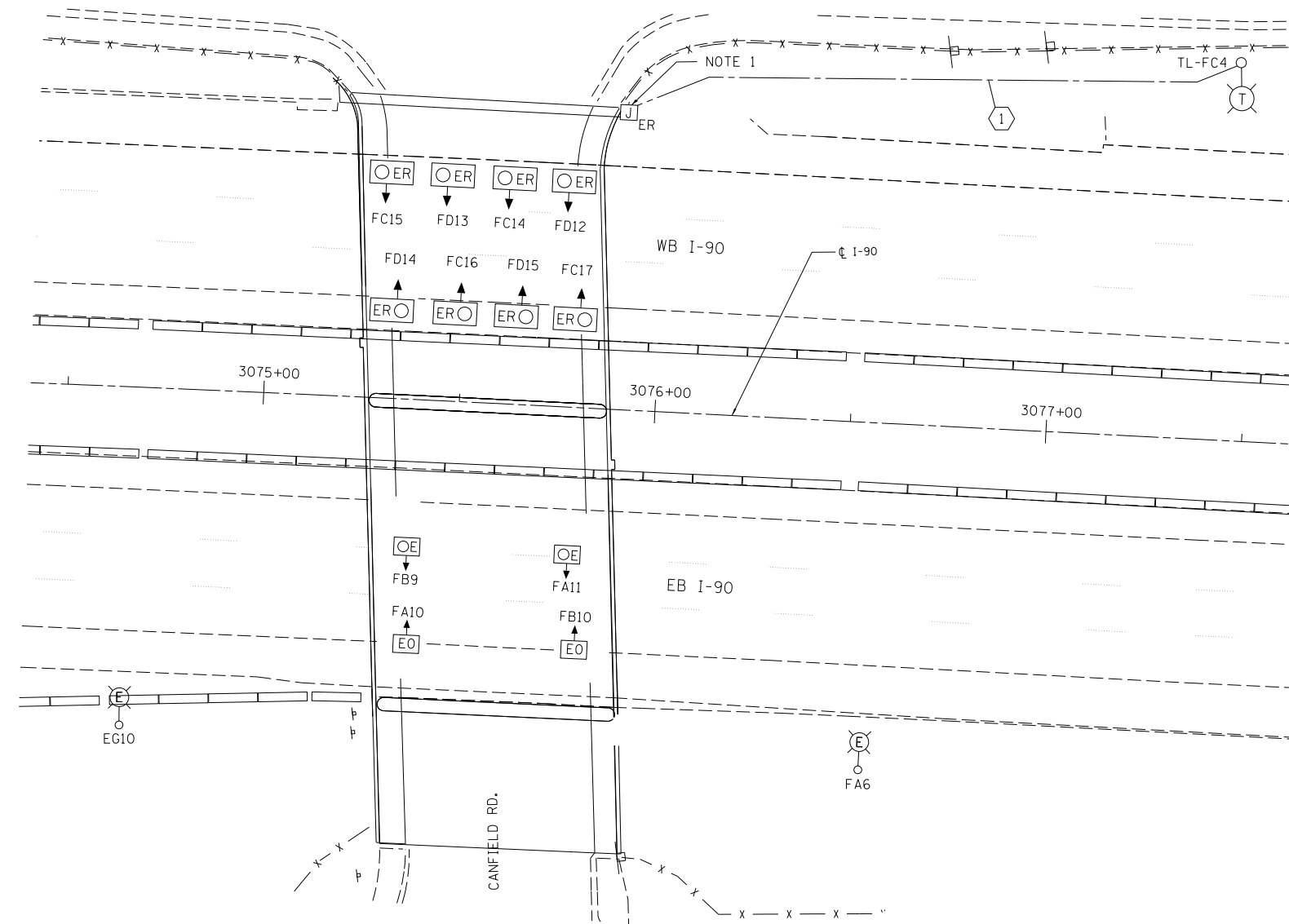
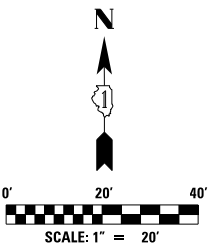
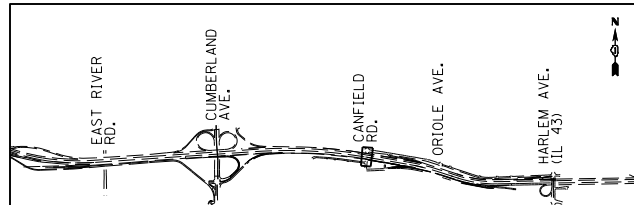
USER NAME = jblakley	DESIGNED	REVISED -
	DRAWN	REVISED -
PLOT SCALE = 1:80' / in.	CHECKED	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS TEMPORARY LIGHTING AND REMOVAL PLAN  
CUMBERLAND AVENUE OVER WESTBOUND I-90**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	330
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. MAKE SPLICE CONNECTIONS TO EXISTING LIGHTING CIRCUIT C/D CONDUCTORS FOR TEMPORARY LIGHTING FEED TO UNDERPASS LUMINAIRES. SEE DETAIL C ON SHEET E-43 FOR TYPICAL DETAIL.
2. PROPOSED TEMPORARY CABLE CONNECTIONS OMITTED FOR CLARITY, SEE SHEET E-12 FOR CONTINUATION.
3. THE REMOVAL OF UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF LIGHTING CONDUCTORS, CONDUITS, JUNCTION BOX, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. SOME EXISTING JUNCTION BOXES SHALL REMAIN AND BE USED FOR FUTURE UNDERPASS LIGHTING CONNECTION. SEE FINAL LIGHTING PLANS FOR DETAIL. THIS WORK SHALL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS UNIT, NO SALVAGE."

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
1	TEMPORARY LIGHTING CONDUIT, UNIT DUCT, 1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE)



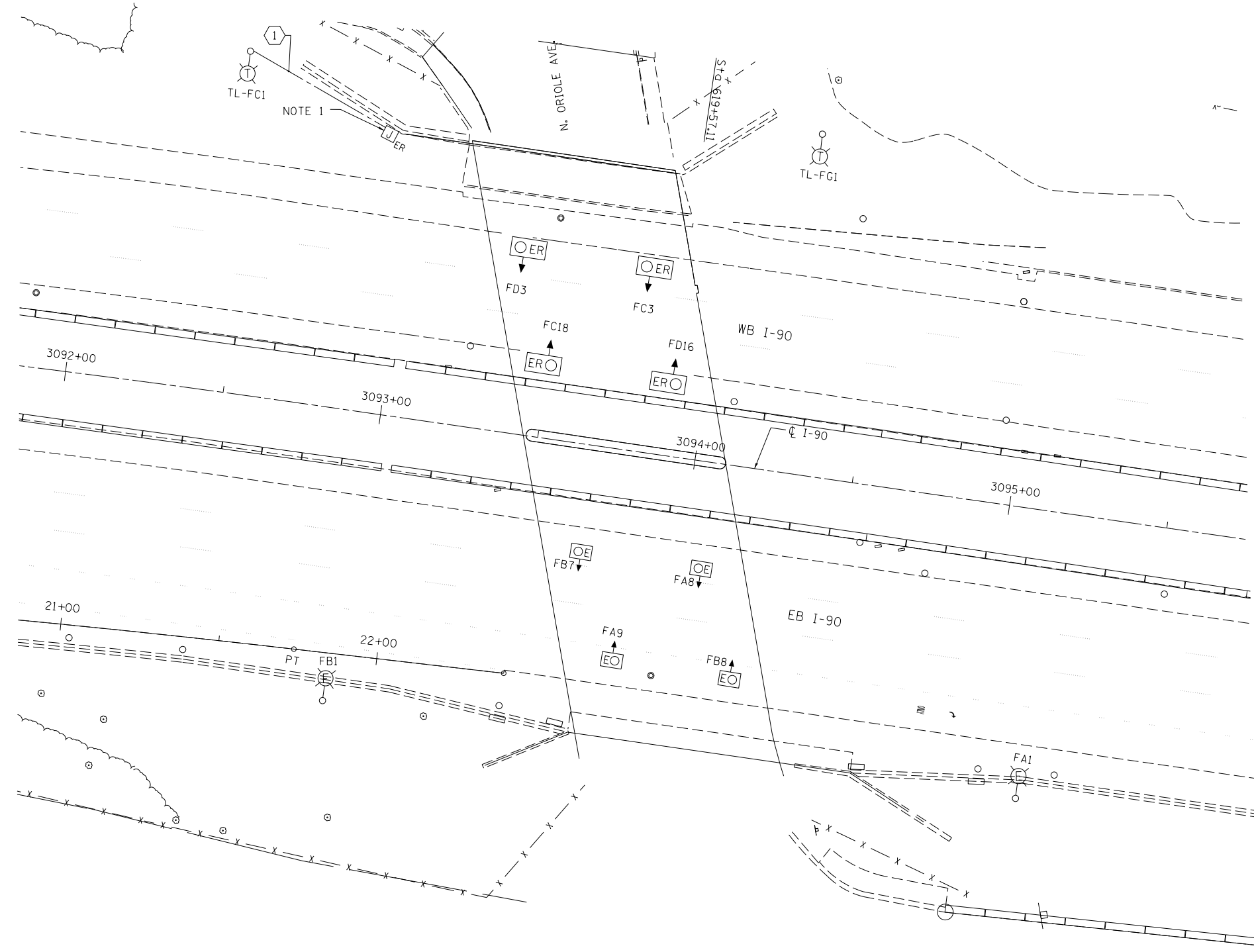
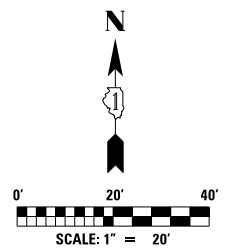
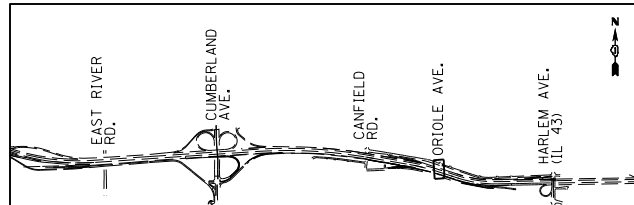
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PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS TEMPORARY LIGHTING AND REMOVAL PLAN  
CANFIELD ROAD OVER WESTBOUND I-90**

SCALE: 1"=20" SHEET NO. 1 OF 1 SHEETS STA. 3057+00 TO STA. 3083+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	331
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. MAKE SPLICE CONNECTIONS TO EXISTING LIGHTING CIRCUIT C/D CONDUCTORS FOR TEMPORARY LIGHTING FEED TO UNDERPASS LUMINAIRES. SEE DETAIL C ON SHEET E-43 FOR TYPICAL DETAIL.
2. PROPOSED TEMPORARY CABLE CONNECTIONS OMITTED FOR CLARITY, SEE SHEET E-12 FOR CONTINUATION.
3. THE REMOVAL OF UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF LIGHTING CONDUCTORS, CONDUITS, JUNCTION BOX, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. SOME EXISTING JUNCTION BOXES SHALL REMAIN AND BE USED FOR FUTURE UNDERPASS LIGHTING CONNECTION. SEE FINAL LIGHTING PLANS FOR DETAIL. THIS WORK SHALL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS UNIT, NO SALVAGE."

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	TEMPORARY LIGHTING CONDUIT, UNIT DUCT, 1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE)



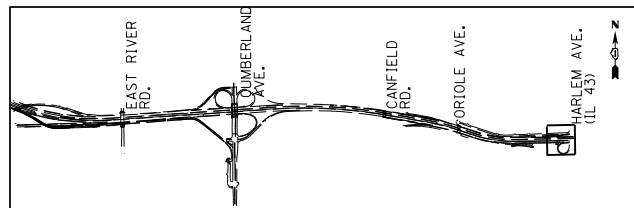
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PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS TEMPORARY LIGHTING AND REMOVAL PLAN  
ORIOLE AVENUE OVER WESTBOUND I-90**

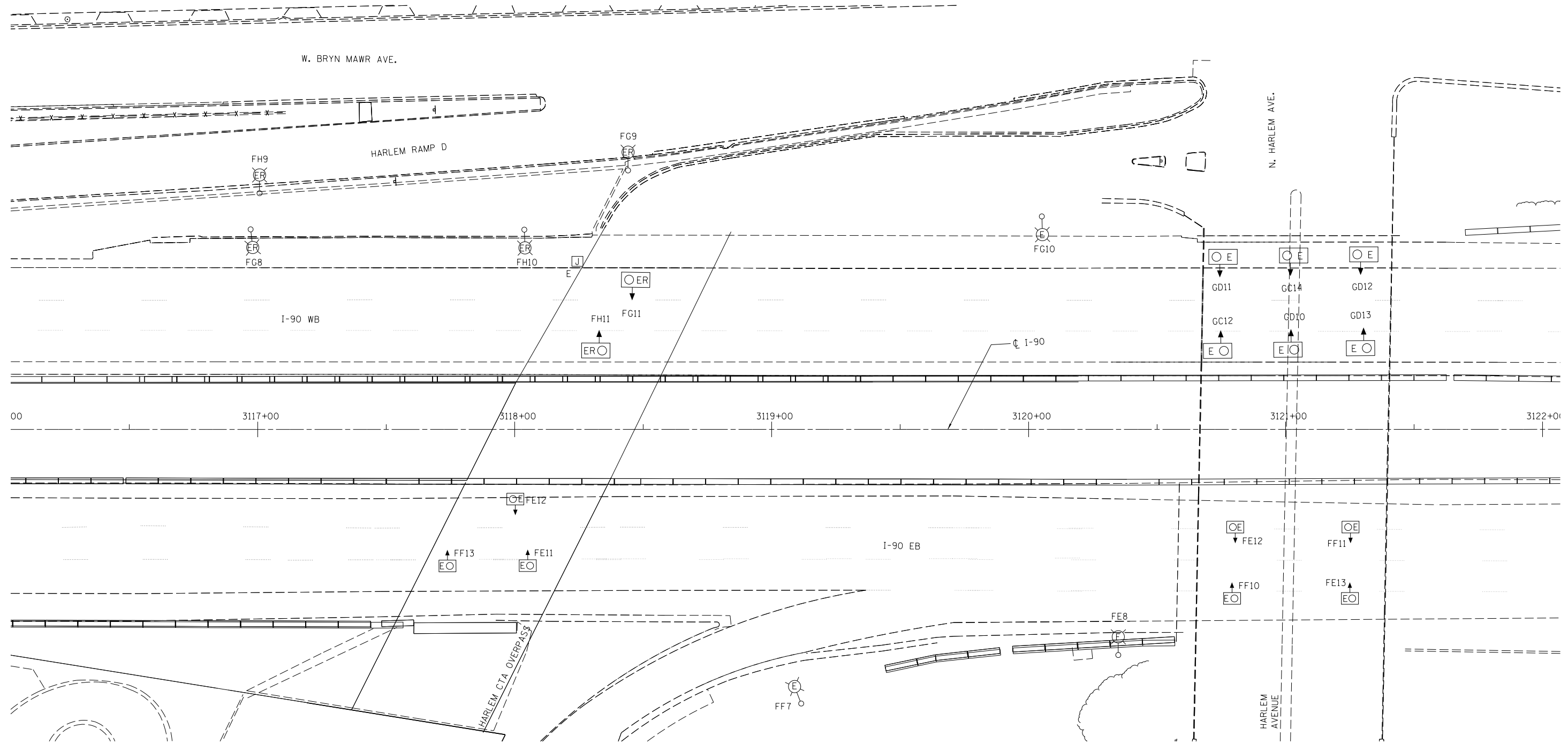
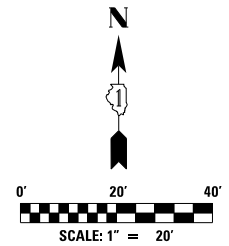
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 332
SCALE: 1"=50"			SHEET NO. 1 OF 1 SHEETS	
STA. 3083+00 TO STA. 3109+00			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. PROPOSED TEMPORARY CABLE CONNECTIONS OMITTED FOR CLARITY, SEE SHEET E-13 FOR CONTINUATION.
3. THE REMOVAL OF UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF LIGHTING CONDUCTORS, CONDUITS, JUNCTION BOX, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. SOME EXISTING JUNCTION BOXES SHALL REMAIN AND BE USED FOR FUTURE UNDERPASS LIGHTING CONNECTION. SEE FINAL LIGHTING PLANS FOR DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS UNIT, NO SALVAGE."



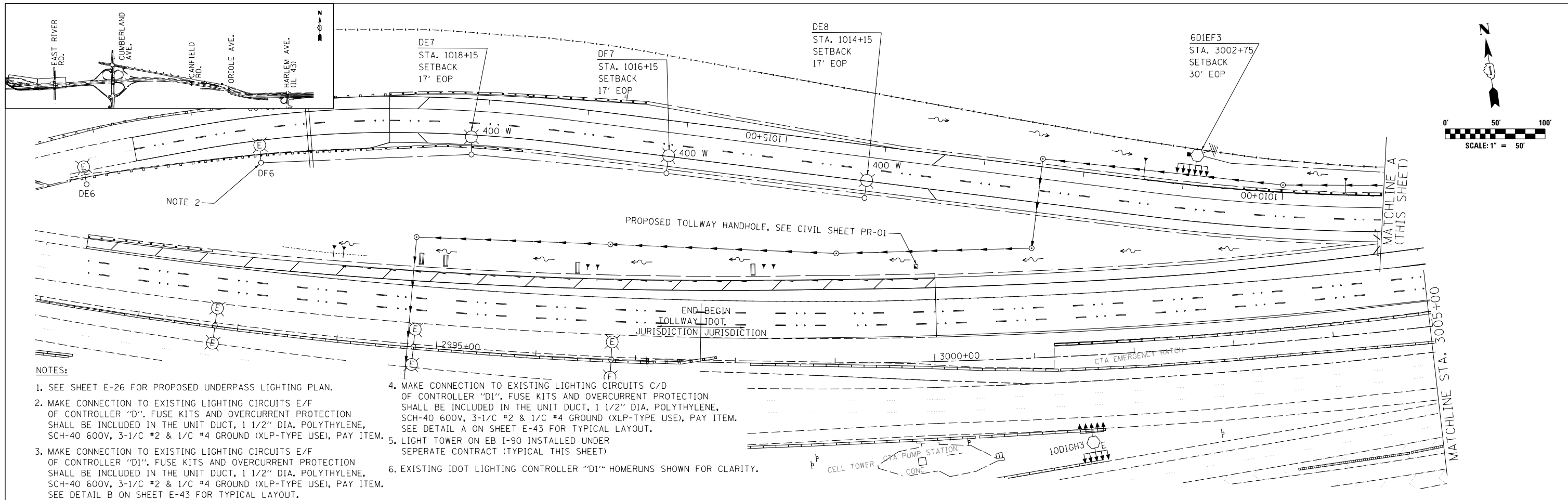
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PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS TEMPORARY LIGHTING AND REMOVAL PLAN  
HARLEM CTA, AND HARLEM AVENUE OVER WESTBOUND I-90**

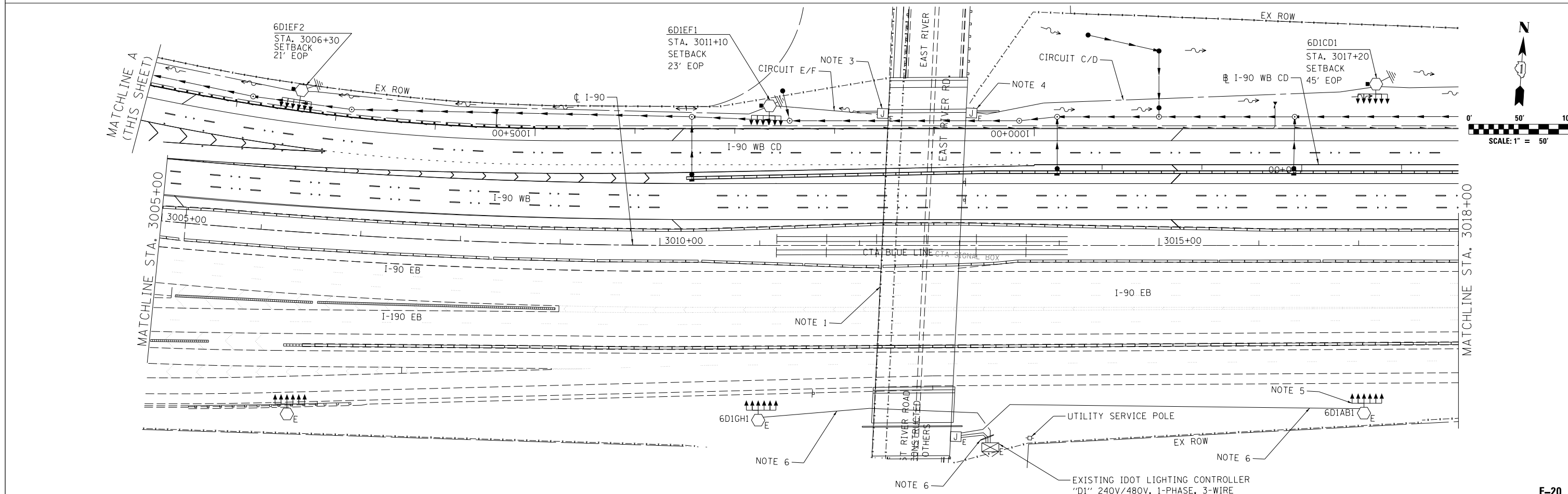
SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	333
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				



**NOTES:**

- SEE SHEET E-26 FOR PROPOSED UNDERPASS LIGHTING PLAN.
- MAKE CONNECTION TO EXISTING LIGHTING CIRCUITS E/F OF CONTROLLER "D1". FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, 1 1/2" DIA. POLYTHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), PAY ITEM.
- MAKE CONNECTION TO EXISTING LIGHTING CIRCUITS E/F OF CONTROLLER "D1". FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, 1 1/2" DIA. POLYTHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), PAY ITEM. SEE DETAIL B ON SHEET E-43 FOR TYPICAL LAYOUT.
- MAKE CONNECTION TO EXISTING LIGHTING CIRCUITS C/D OF CONTROLLER "D1". FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, 1 1/2" DIA. POLYTHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), PAY ITEM. SEE DETAIL A ON SHEET E-43 FOR TYPICAL LAYOUT.
- LIGHT TOWER ON EB I-90 INSTALLED UNDER SEPERATE CONTRACT (TYPICAL THIS SHEET)
- EXISTING IDOT LIGHTING CONTROLLER "D1" HOMERUNS SHOWN FOR CLARITY.



**E-20**



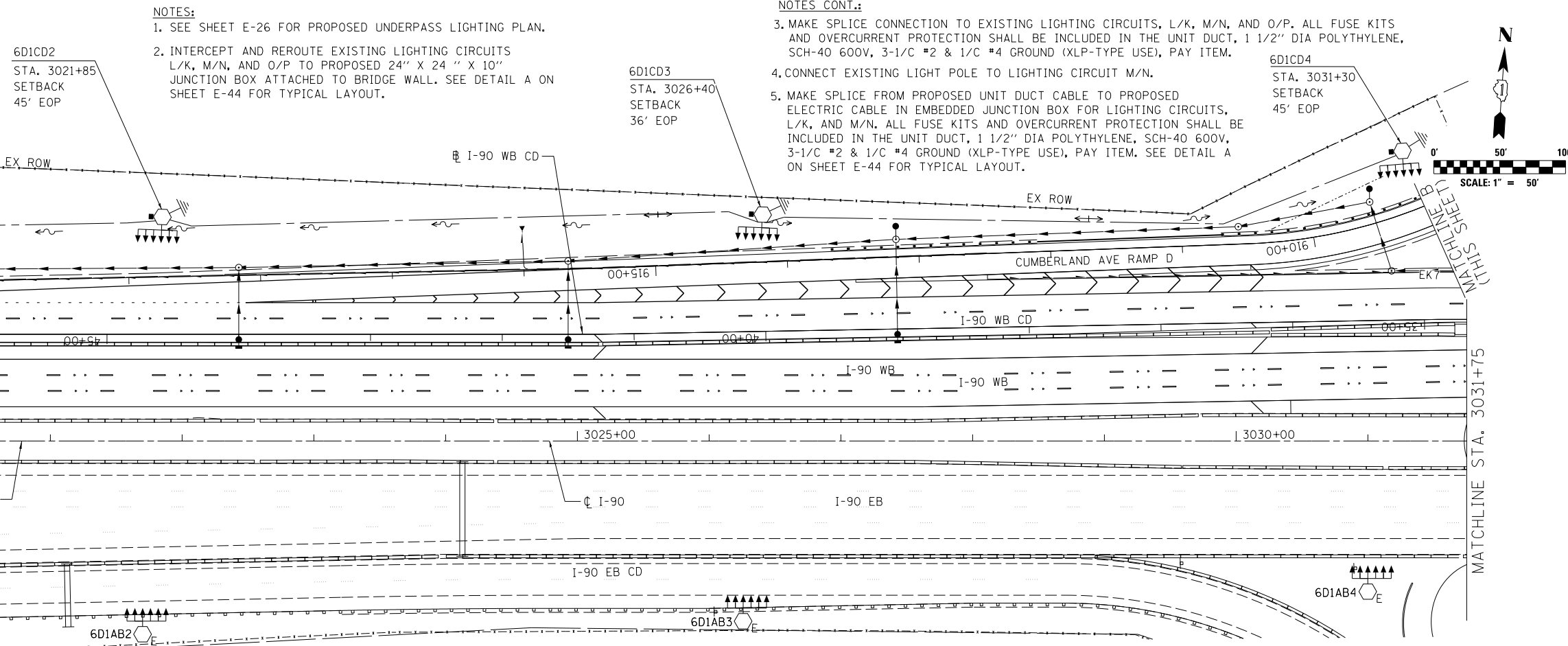
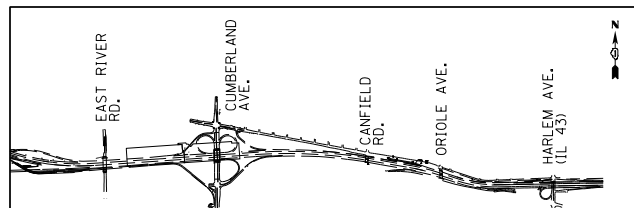
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PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT PROPOSED LIGHTING PLAN**

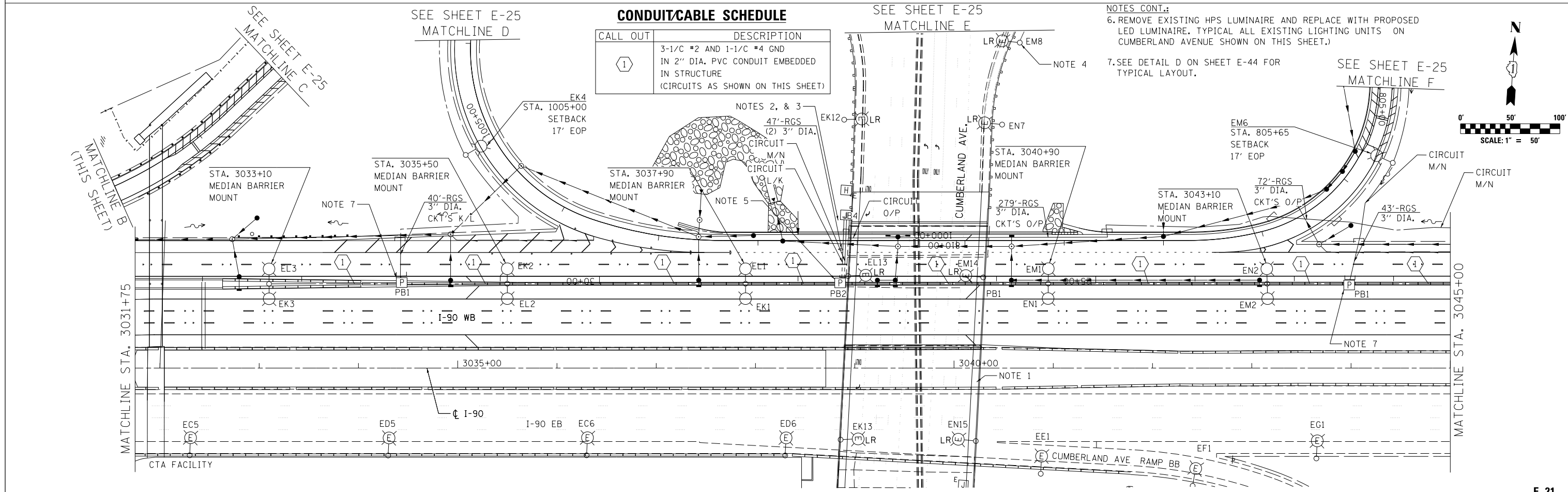
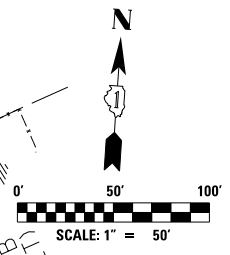
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	334
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

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



**NOTES:**  
 1. SEE SHEET E-26 FOR PROPOSED UNDERPASS LIGHTING PLAN.  
 2. INTERCEPT AND REROUTE EXISTING LIGHTING CIRCUITS L/K, M/N, AND O/P TO PROPOSED 24" X 24" X 10" JUNCTION BOX ATTACHED TO BRIDGE WALL. SEE DETAIL A ON SHEET E-44 FOR TYPICAL LAYOUT.

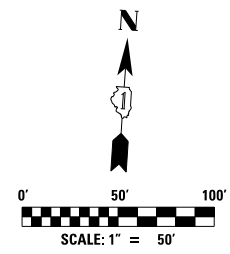
**NOTES CONT.:**  
 3. MAKE SPLICE CONNECTION TO EXISTING LIGHTING CIRCUITS, L/K, M/N, AND O/P. ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, 1 1/2" DIA POLYTHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), PAY ITEM.  
 4. CONNECT EXISTING LIGHT POLE TO LIGHTING CIRCUIT M/N.  
 5. MAKE SPLICE FROM PROPOSED UNIT DUCT CABLE TO PROPOSED ELECTRIC CABLE IN EMBEDDED JUNCTION BOX FOR LIGHTING CIRCUITS, L/K, AND M/N. ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, 1 1/2" DIA POLYTHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), PAY ITEM. SEE DETAIL A ON SHEET E-44 FOR TYPICAL LAYOUT.



**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	3-1/C #2 AND 1-1/C #4 GND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE (CIRCUITS AS SHOWN ON THIS SHEET)

**NOTES CONT.:**  
 6. REMOVE EXISTING HPS LUMINAIRE AND REPLACE WITH PROPOSED LED LUMINAIRE. TYPICAL ALL EXISTING LIGHTING UNITS ON CUMBERLAND AVENUE SHOWN ON THIS SHEET.)  
 7. SEE DETAIL D ON SHEET E-44 FOR TYPICAL LAYOUT.



USER NAME = jblakley	DESIGNED KFA	REVISED -
PLOT SCALE = 1.00" / 1"	DRAWN KFA	REVISED -
PLOT DATE = 6/19/2017	CHECKED MCD	REVISED -
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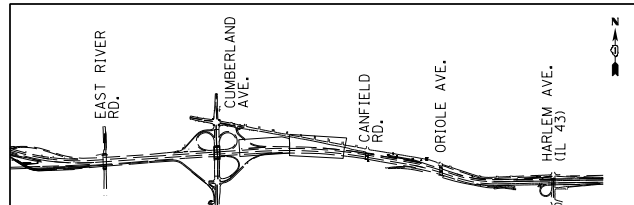
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE  
 IDOT PROPOSED LIGHTING PLAN**

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

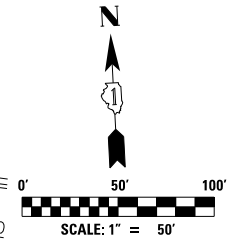
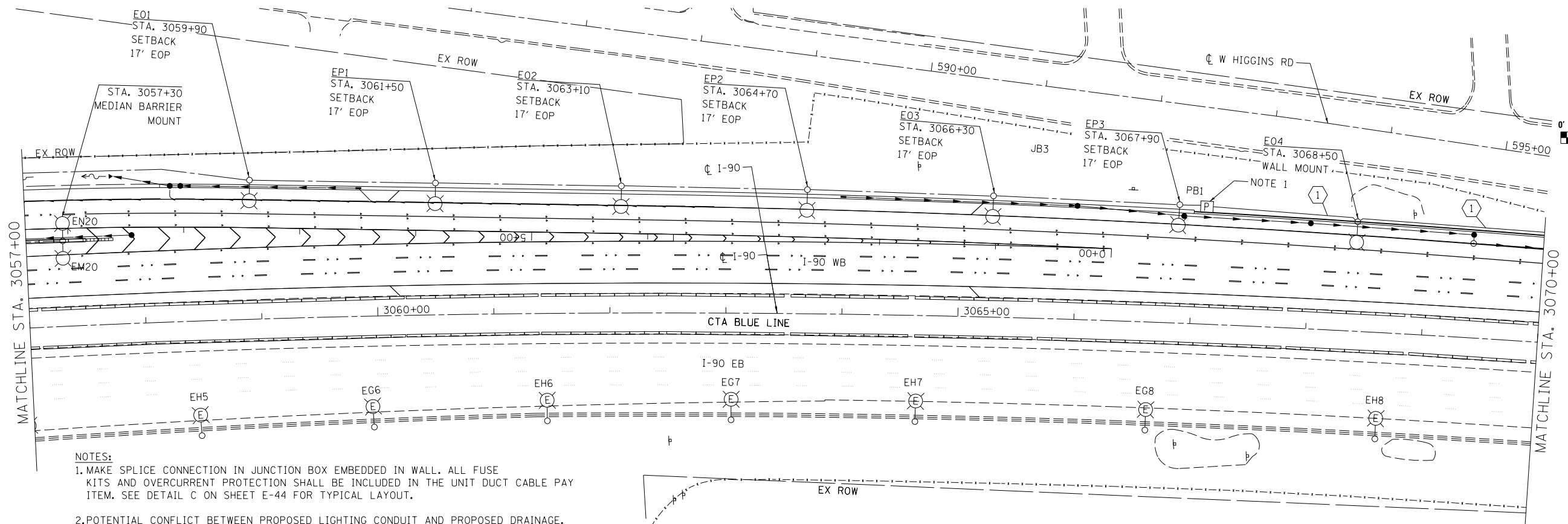
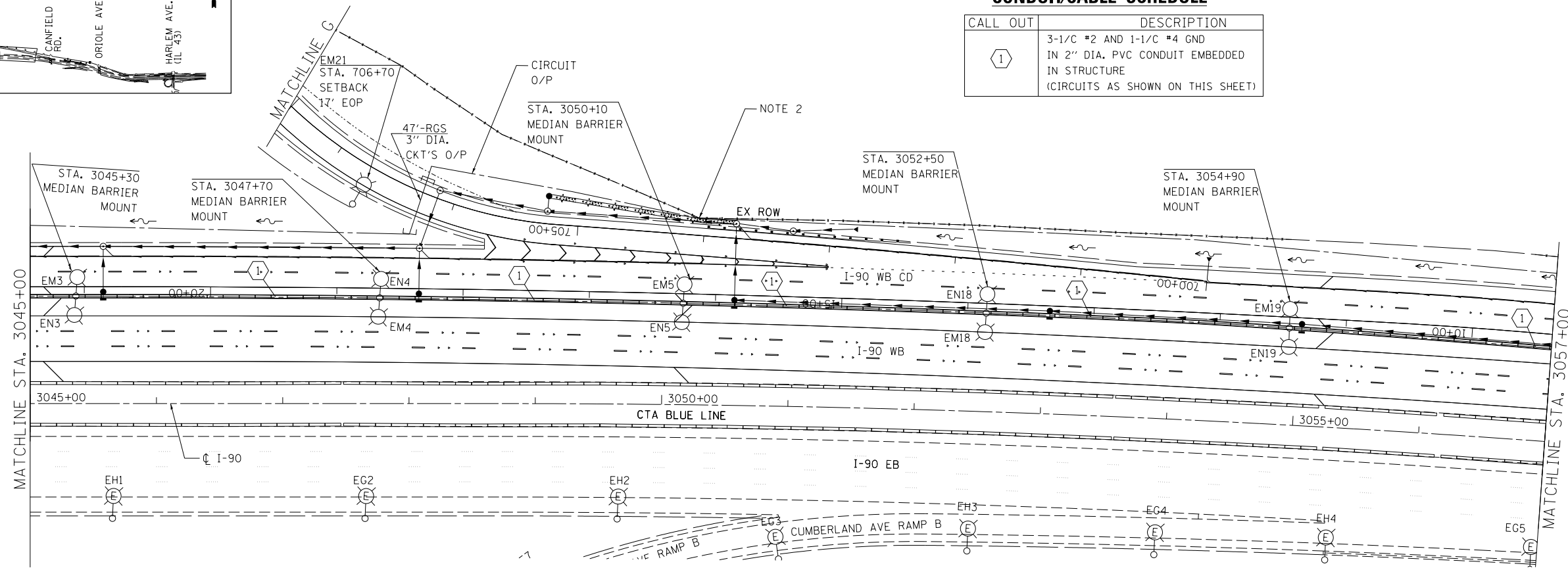
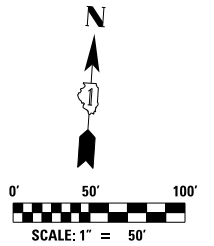
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 335
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

FILE NAME = D160Y39-shr-1sg-E21.dgn



**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	3-1/C #2 AND 1-1/C #4 GND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE (CIRCUITS AS SHOWN ON THIS SHEET)



- NOTES:**
1. MAKE SPLICE CONNECTION IN JUNCTION BOX EMBEDDED IN WALL. ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT CABLE PAY ITEM. SEE DETAIL C ON SHEET E-44 FOR TYPICAL LAYOUT.
  2. POTENTIAL CONFLICT BETWEEN PROPOSED LIGHTING CONDUIT AND PROPOSED DRAINAGE. CONTRACTOR SHALL COORDINATE WITH DRAINAGE PLANS TO PHASE INSTALLATION OF LIGHTING CONDUIT TO AVOID DRAINAGE CONFLICTS.



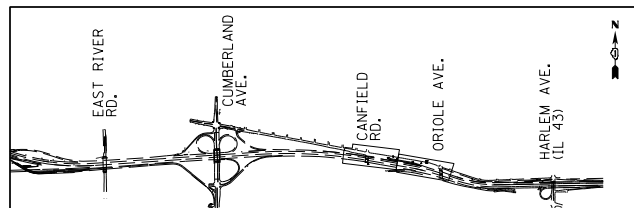
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PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT PROPOSED LIGHTING PLAN**

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 336
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

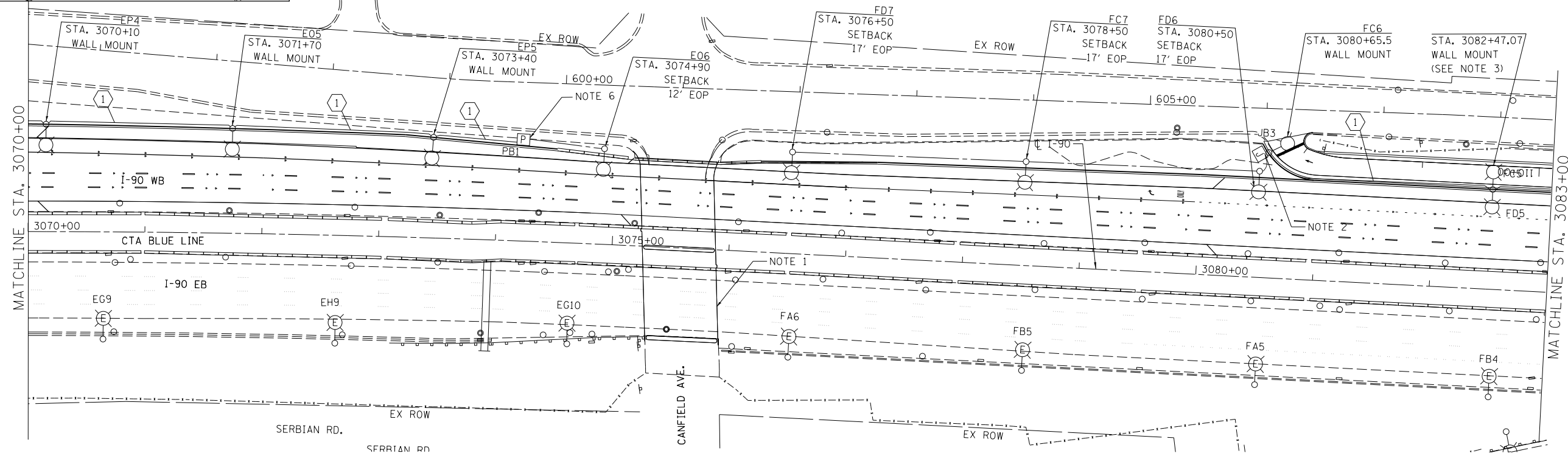
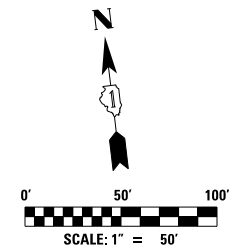


**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	3-1/C #2 AND 1-1/C #4 GND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE (CIRCUITS AS SHOWN ON THIS SHEET)

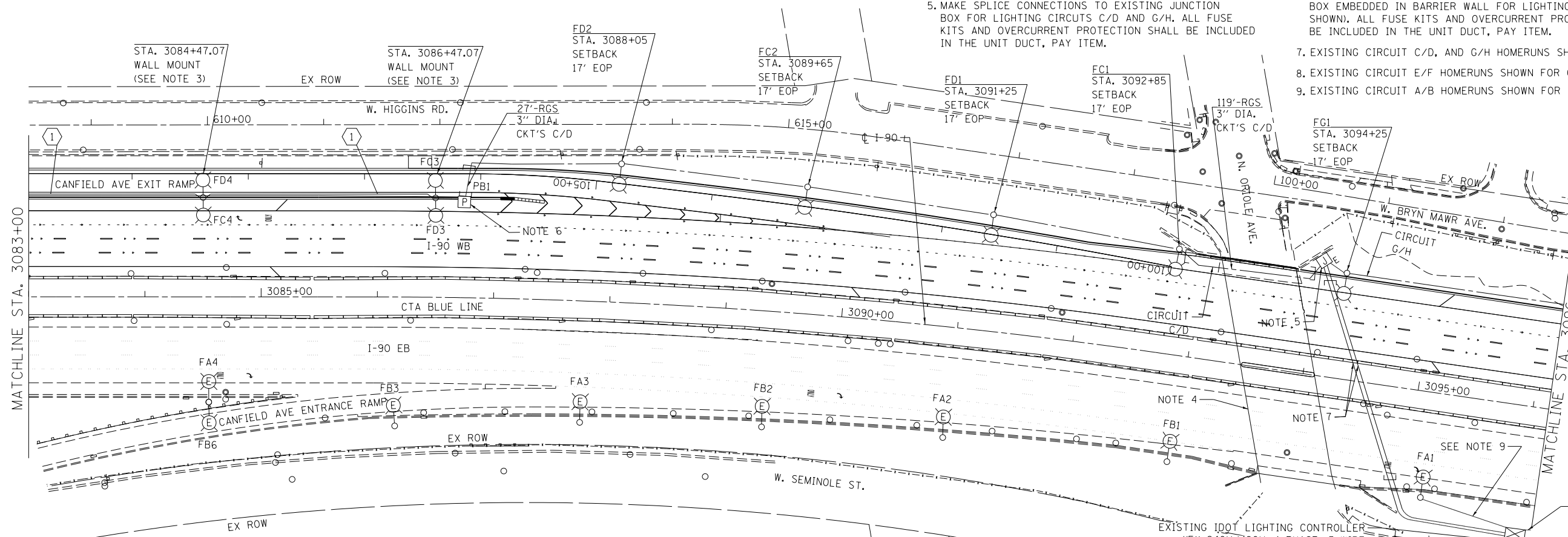
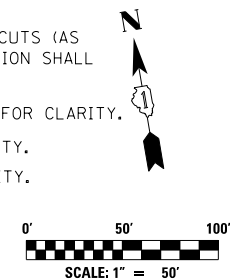
- NOTES:
- SEE SHEET E-28 FOR UNDERPASS CONNECTIONS.
  - MAKE SPLICE CONNECTIONS TO EXISTING JUNCTION BOX FOR LIGHTING CIRCUITS C/D AND G/H. ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, PAY ITEM.

- PROPOSED LIGHTING UNIT 47.5 FT MH, 2-12 FT DAVIT ARM



NOTES CONT.:

- SEE SHEET E-29 FOR UNDERPASS CONNECTIONS.
- MAKE SPLICE CONNECTIONS TO EXISTING JUNCTION BOX FOR LIGHTING CIRCUITS C/D AND G/H. ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, PAY ITEM.
- MAKE SPLICE CONNECTIONS TO PROPOSED JUNCTION BOX EMBEDDED IN BARRIER WALL FOR LIGHTING CIRCUITS (AS SHOWN). ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, PAY ITEM.
- EXISTING CIRCUIT C/D, AND G/H HOMERUNS SHOWN FOR CLARITY.
- EXISTING CIRCUIT E/F HOMERUNS SHOWN FOR CLARITY.
- EXISTING CIRCUIT A/B HOMERUNS SHOWN FOR CLARITY.



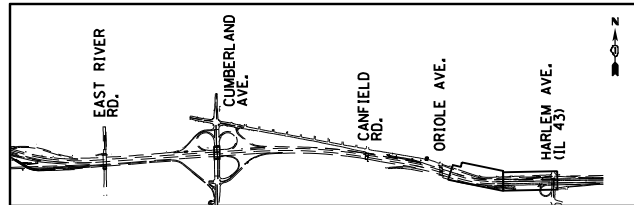
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PLOT SCALE = 1/80' / in.	DRAWN KFA	REVISED -
PLOT DATE = 6/19/2017	CHECKED MCD	REVISED -
	DATE 06/28/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT PROPOSED LIGHTING PLAN

SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

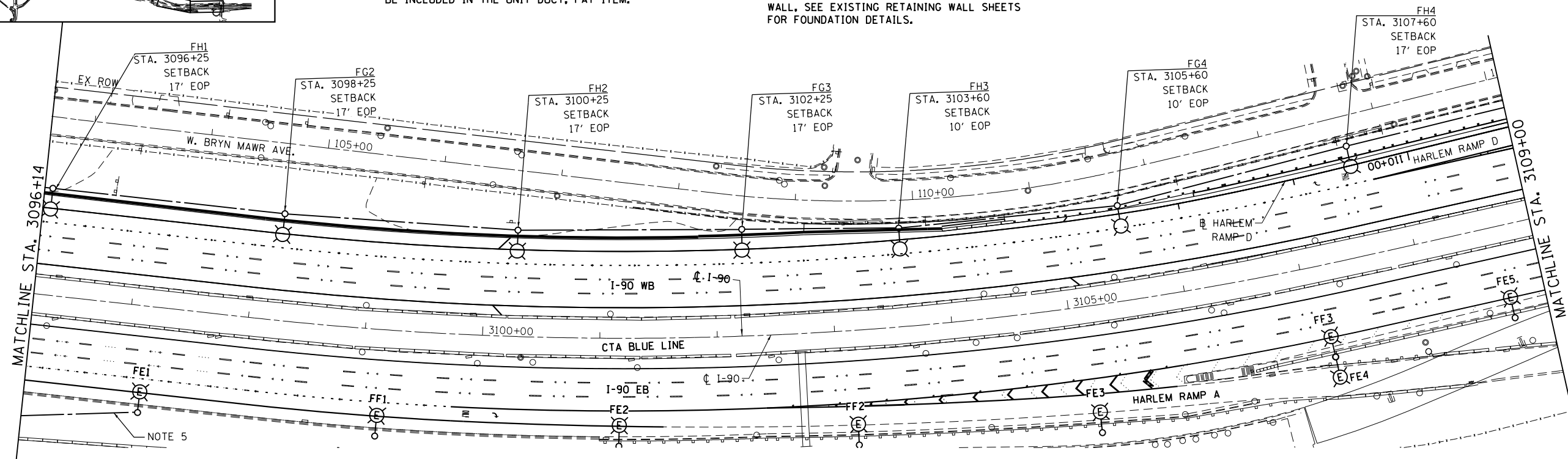
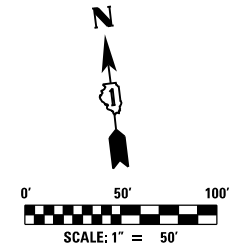
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 337
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	



**NOTES:**

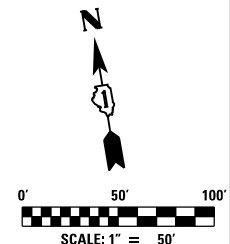
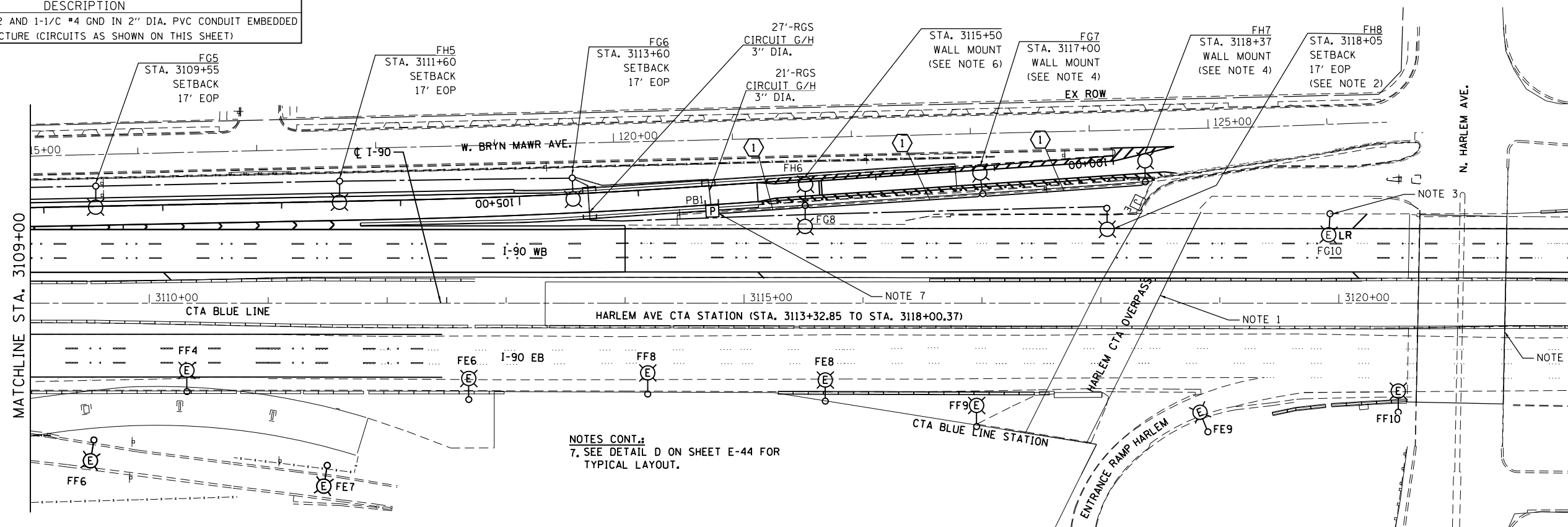
- SEE SHEET E-30 FOR UNDERPASS LIGHTING PLAN.
- INTERCEPT AND REROUTE EXISTING UNIT CABLE AND MAKE SPLICE CONNECTION AT PROPOSED LIGHTING UNIT FHB FOR CONTINUATION OF LIGHTING CIRCUIT G/H. ALL FUSES AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, PAY ITEM.
- REPLACE EXISTING HPS LUMINAIRE WITH PROPOSED LED LUMINAIRE, THE COST OF REMOVING THE EXISTING LUMINAIRE SHALL BE INCLUDED IN THE REMOVAL OF TEMPORARY LIGHTING UNIT PAY ITEM.
- PROPOSED LIGHT POLE ON PROPOSED RETAINING WALL, SEE EXISTING RETAINING WALL SHEETS FOR FOUNDATION DETAILS.

- EXISTING CIRCUIT E/F HOMERUNS SHOWN FOR CLARITY.
- PROPOSED LIGHT UNIT, ALUMINIUM POLE, 2-12 FT DAVIT, 47.5 FT. MOUNTING HEIGHT, ON PROPOSED RETAINING WALL, SEE SHEETS FOR POLE FOUNDATION DETAILS.



**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	3-1/2 #2 AND 1-1/2 #4 GND IN 2" DIA. PVC CONDUIT EMBEDDED IN STRUCTURE (CIRCUITS AS SHOWN ON THIS SHEET)



**NOTES CONT.:**  
7. SEE DETAIL D ON SHEET E-44 FOR TYPICAL LAYOUT.



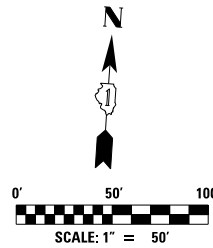
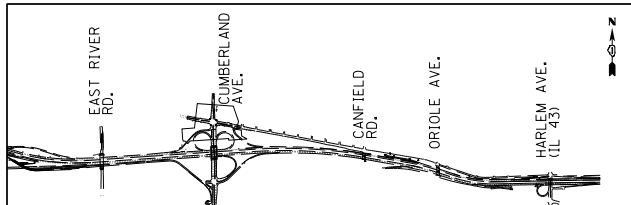
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PLOT DATE = 3/15/2018	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT PROPOSED LIGHTING PLAN**

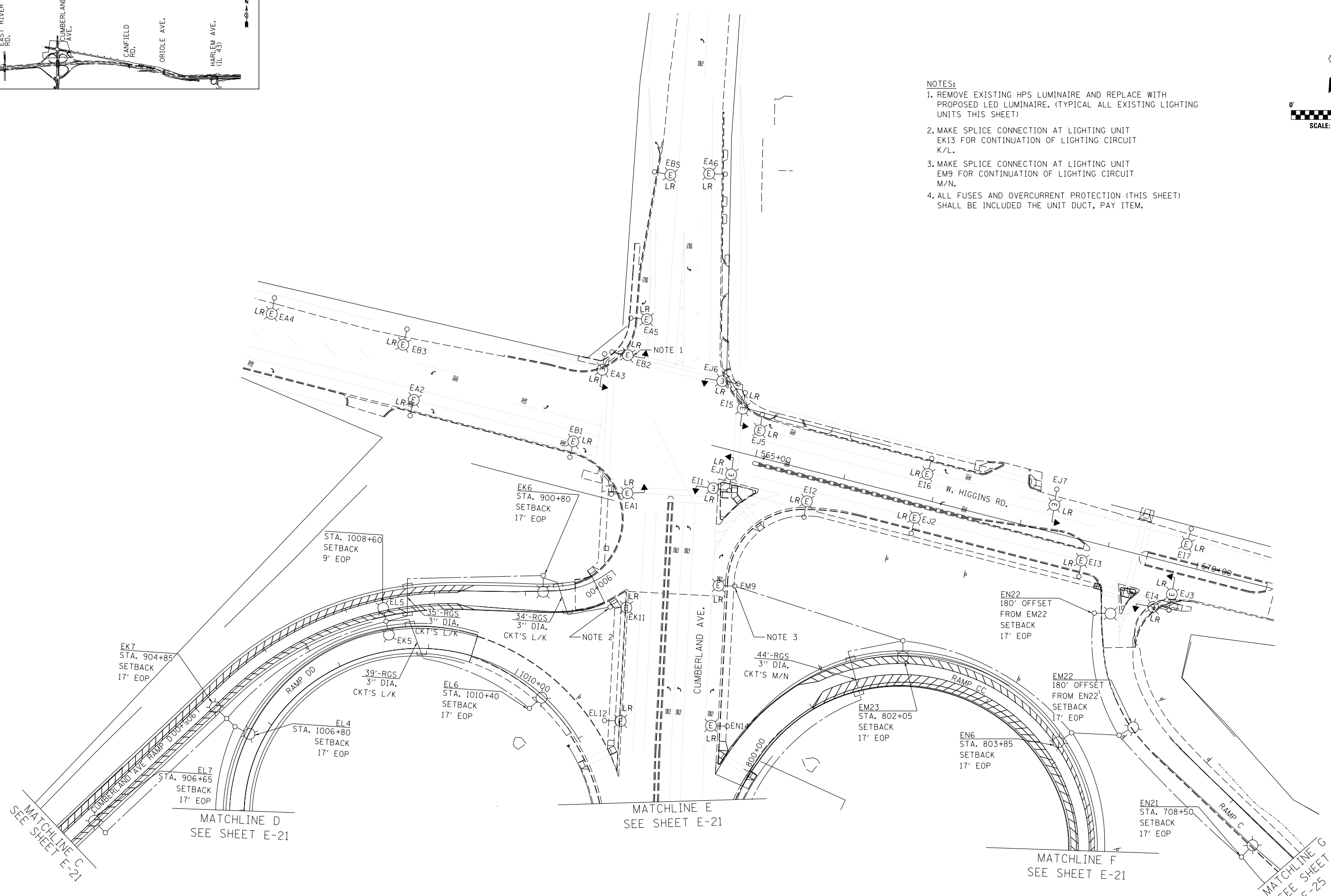
SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 338
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. REMOVE EXISTING HPS LUMINAIRE AND REPLACE WITH PROPOSED LED LUMINAIRE. (TYPICAL ALL EXISTING LIGHTING UNITS THIS SHEET)
2. MAKE SPLICE CONNECTION AT LIGHTING UNIT EK13 FOR CONTINUATION OF LIGHTING CIRCUIT K/L.
3. MAKE SPLICE CONNECTION AT LIGHTING UNIT EM9 FOR CONTINUATION OF LIGHTING CIRCUIT M/N.
4. ALL FUSES AND OVERCURRENT PROTECTION (THIS SHEET) SHALL BE INCLUDED THE UNIT DUCT, PAY ITEM.



E-25



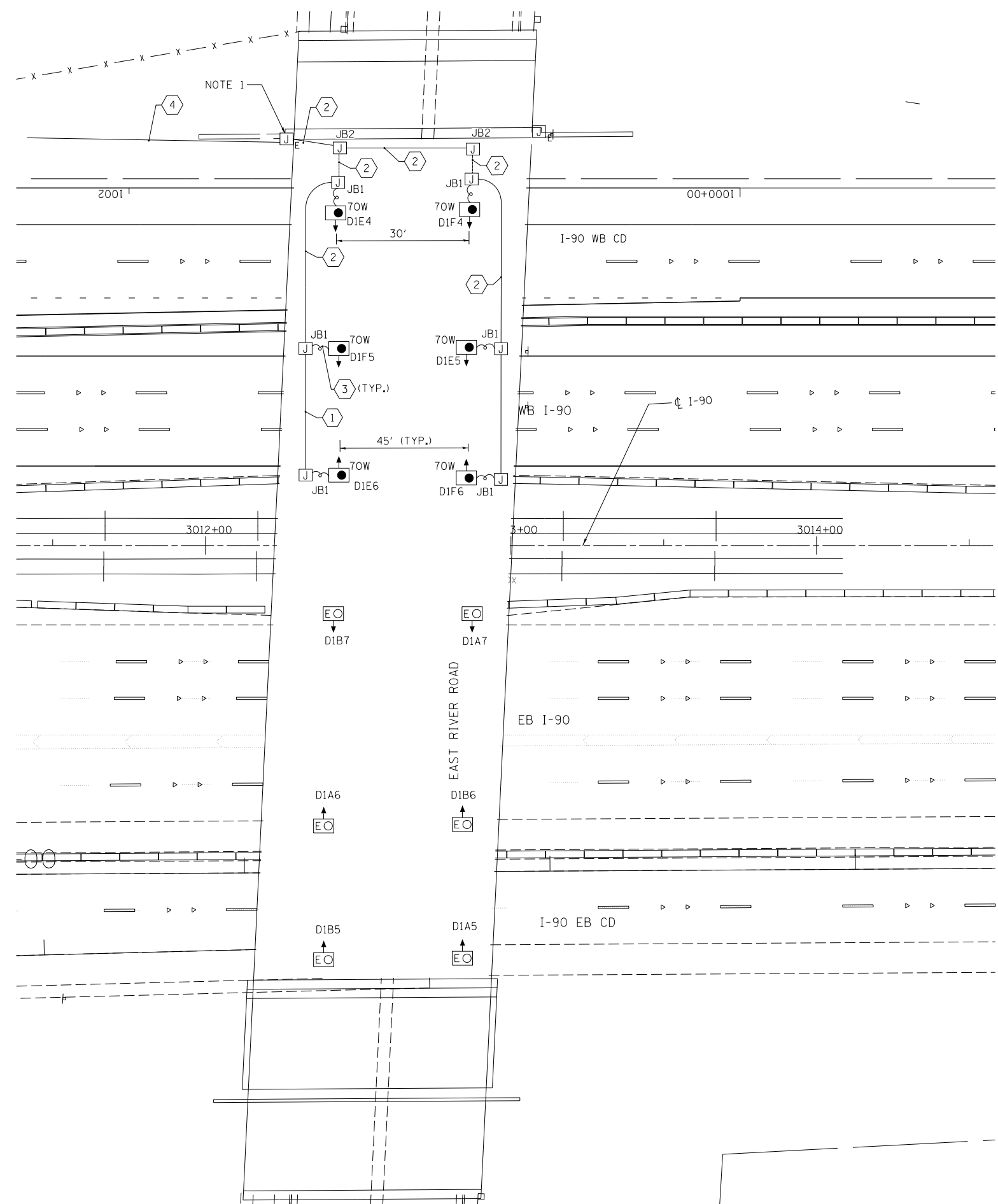
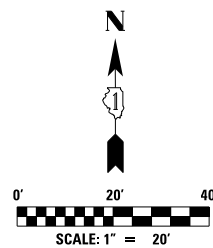
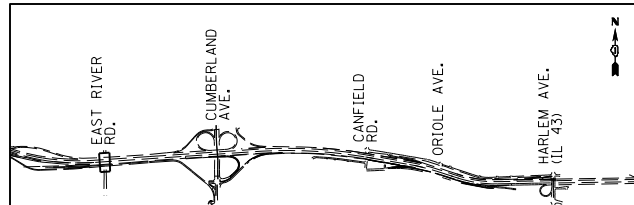
USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
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PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT PROPOSED LIGHTING PLAN**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	339
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. INSTALL 30A FUSES WITH DISCONNECT TYPE FUSE HOLDERS FOR PHASE WIRES IN EXISTING JUNCTION BOX THIS WORK SHALL BE INCLUDED IN THE UNDERPASS LUMINAIRE 70 WATT, HIGH PRESSURE SODIUM VAPOR.
2. ALL PROPOSED UNDERPASS LIGHTING UNITS SHALL BE SET BACK 2 FT. FROM THE EDGE OF TRAVELLED PAVEMENT.
3. ROUTE PROPOSED LIGHTING UNIT DUCT, 1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE) THROUGH EXISTING 3" DIA. RGS PVCC CONDUIT INTO EXISTING JUNCTION BOX. (SEE DETAIL B ON SHEET E-43 FOR TYPICAL DETAIL.)
4. PROPOSED CABLE CONNECTION OMITTED FOR CLARITY, SEE SHEET E-30 FOR CONTINUATION.

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	2-1/C #10 AND 1-1/C #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
②	3-1/C #10 AND 1-1/C #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
③	2-1/C #10 AND 1-1/C #10 GND IN 1" DIA. LIQUID TIGHT FLEXIBLE CONDUIT (CIRCUITS AS INDICATED ON THIS DRAWING)
④	1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE) FROM LIGHT TOWER 6DIEF1



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

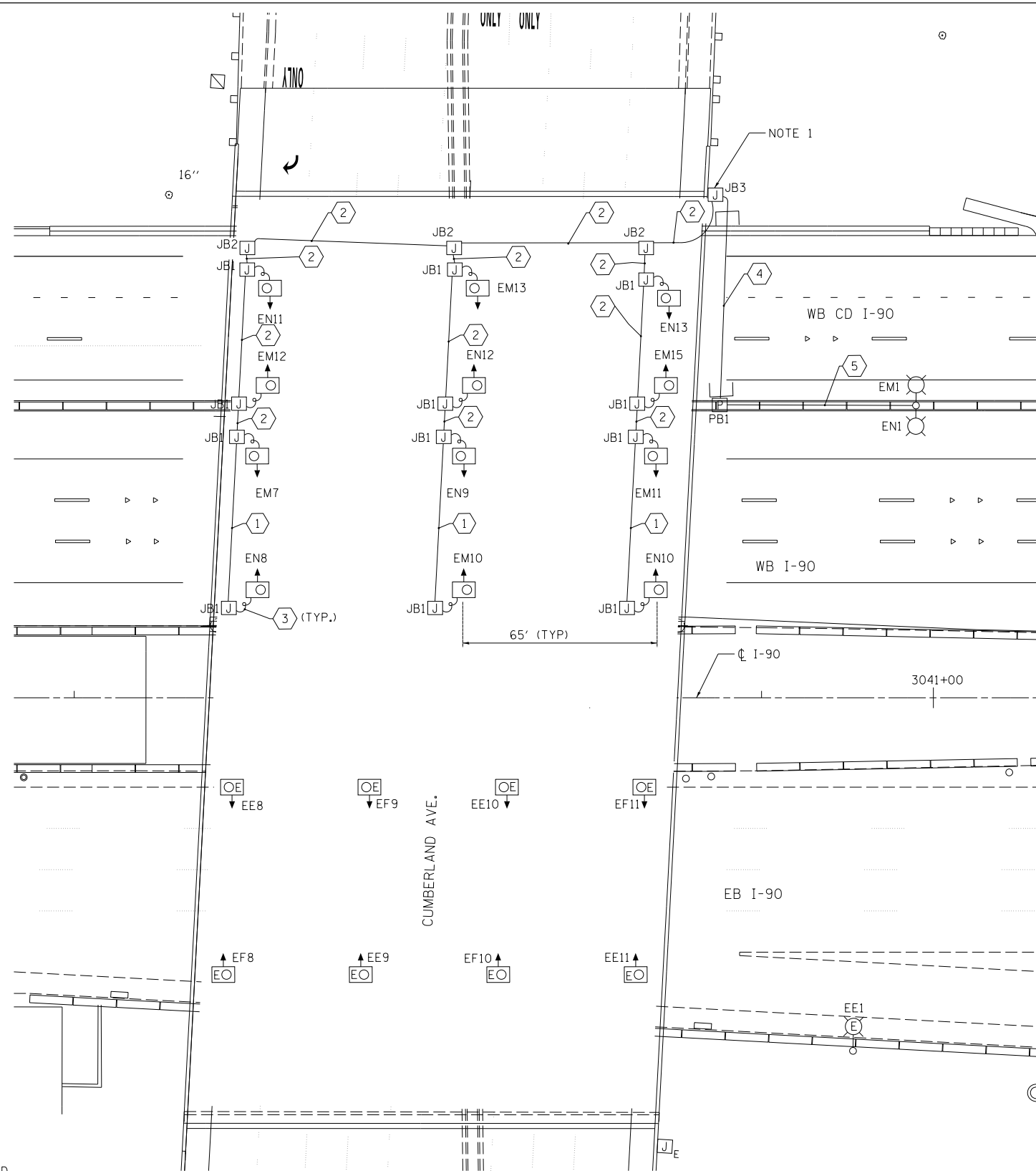
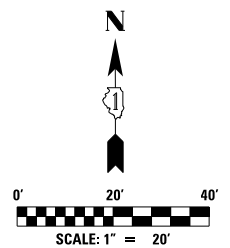
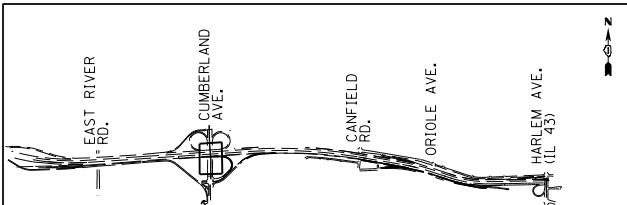
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS LIGHTING PLAN  
EAST RIVER ROAD OVER WESTBOUND I-90

SCALE: 1"=20" SHEET NO. 1 OF 1 SHEETS STA. 3057+00 TO STA. 3083+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 340
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. INSTALL PROPOSED 3" DIA. PVCC RGS CONDUIT INTO PROPOSED JUNCTION BOX, AND ROUTE LIGHTING CONDUCTORS, 3-1/C #2 AND 1-1/C #4 GROUND THROUGH 3" DIA. RGS PVCC CONDUIT INTO THE PROPOSED JUNCTION BOX (SEE DETAIL D ON SHEET E-XX FOR TYPICAL DETAIL.) MAKE SPLICE CONNECTIONS TO PROPOSED LIGHTING CIRCUIT M/N CONDUCTORS FOR FINAL LIGHTING FEED TO UNDERPASS LUMINAIRES.
2. INSTALL 30A FUSES WITH DISCONNECT TYPE FUSE HOLDERS FOR PHASE WIRES IN PROPOSED JUNCTION BOX. THIS WORK SHALL BE PAID FOR BY THE LUMINAIRE, UNDERPASS, LED TYPE B PAY ITEM.
3. ALL PROPOSED UNDERPASS LIGHTING UNITS SHALL BE SET BACK 2 FT FROM THE EDGE OF TRAVELLED PAVEMENT.
4. PROPOSED CABLE CONNECTION OMITTED FOR CLARITY, SEE SHEET E-21 FOR CONTINUATION.

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	2-1/C #10 AND 1-1/C #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
②	3-1/C #10 AND 1-1/C #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
③	2-1/C #10 AND 1-1/C #10 GND IN 1" DIA. LIQUID TIGHT FLEXIBLE CONDUIT (CIRCUITS AS INDICATED ON THIS DRAWING)
④	UNIT DUCT CABLE IN 3" DIA. RGC, (CIRCUITS AS INDICATED ON THIS DRAWING)
⑤	3-1/C #2 AND 1-1/C #4 GND IN 2" DIA. PVC EMBEDDED IN MEDIAN (CIRCUITS AS INDICATED ON THIS DRAWING)



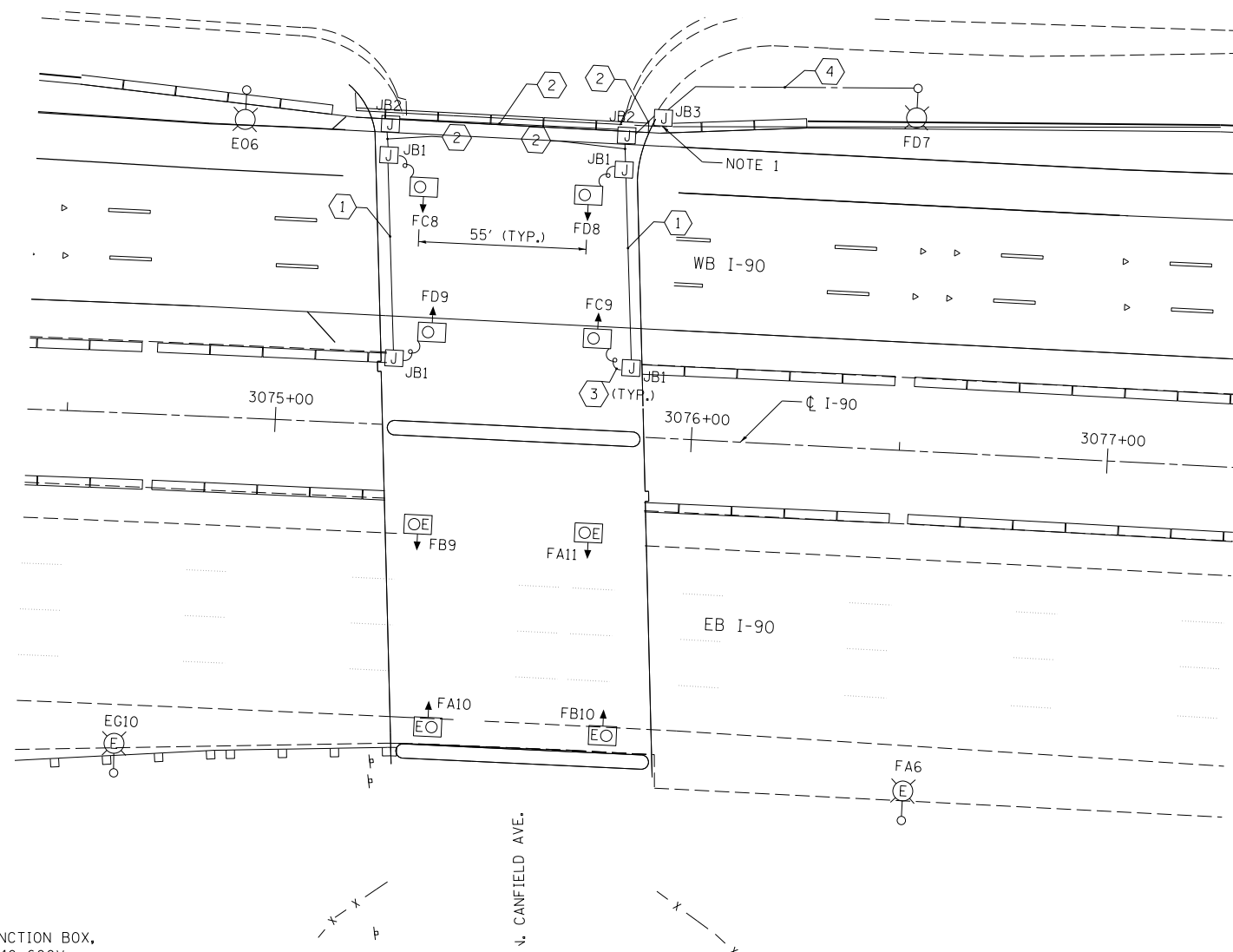
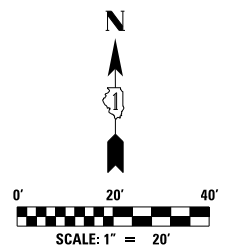
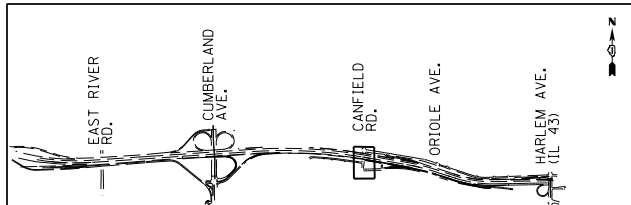
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PLOT SCALE = 1:20' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS LIGHTING PLAN  
CUMBERLAND AVENUE OVER WESTBOUND I-90**

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA. 3057+00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 341
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. INSTALL PROPOSED 3" DIA. PVCC RGS CONDUIT INTO PROPOSED JUNCTION BOX, AND ROUTE LIGHTING UNIT DUCT, 1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND THROUGH 3" DIA. RGS PVCC CONDUIT INTO THE PROPOSED JUNCTION BOX (SEE DETAIL D ON SHEET E-43 FOR TYPICAL DETAIL.) MAKE SPLICE CONNECTIONS TO PROPOSED LIGHTING CIRCUIT C/D CONDUCTORS FOR FINAL LIGHTING FEED TO UNDERPASS LUMINAIRES.
2. INSTALL 30A FUSES WITH DISCONNECT TYPE FUSE HOLDERS FOR PHASE WIRES IN PROPOSED JUNCTION BOX. THIS WORK SHALL BE PAID FOR BY THE LUMINAIRE, UNDERPASS, LED TYPE B PAY ITEM.
3. ALL PROPOSED UNDERPASS LIGHTING UNITS SHALL BE SET BACK 2 FT FROM THE EDGE OF TRAVELLED PAVEMENT.
3. PROPOSED CABLE CONNECTION OMITTED FOR CLARITY, SEE SHEET E-23 FOR CONTINUATION.

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	2-1/C #10 AND 1-1/C #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
②	3-1/C #10 AND 1-1/C #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
③	2-1/C #10 AND 1-1/C #10 GND IN 1" DIA. LIQUID TIGHT FLEXIBLE CONDUIT (CIRCUITS AS INDICATED ON THIS DRAWING)
④	1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE) (CIRCUITS AS INDICATED ON THIS DRAWING)



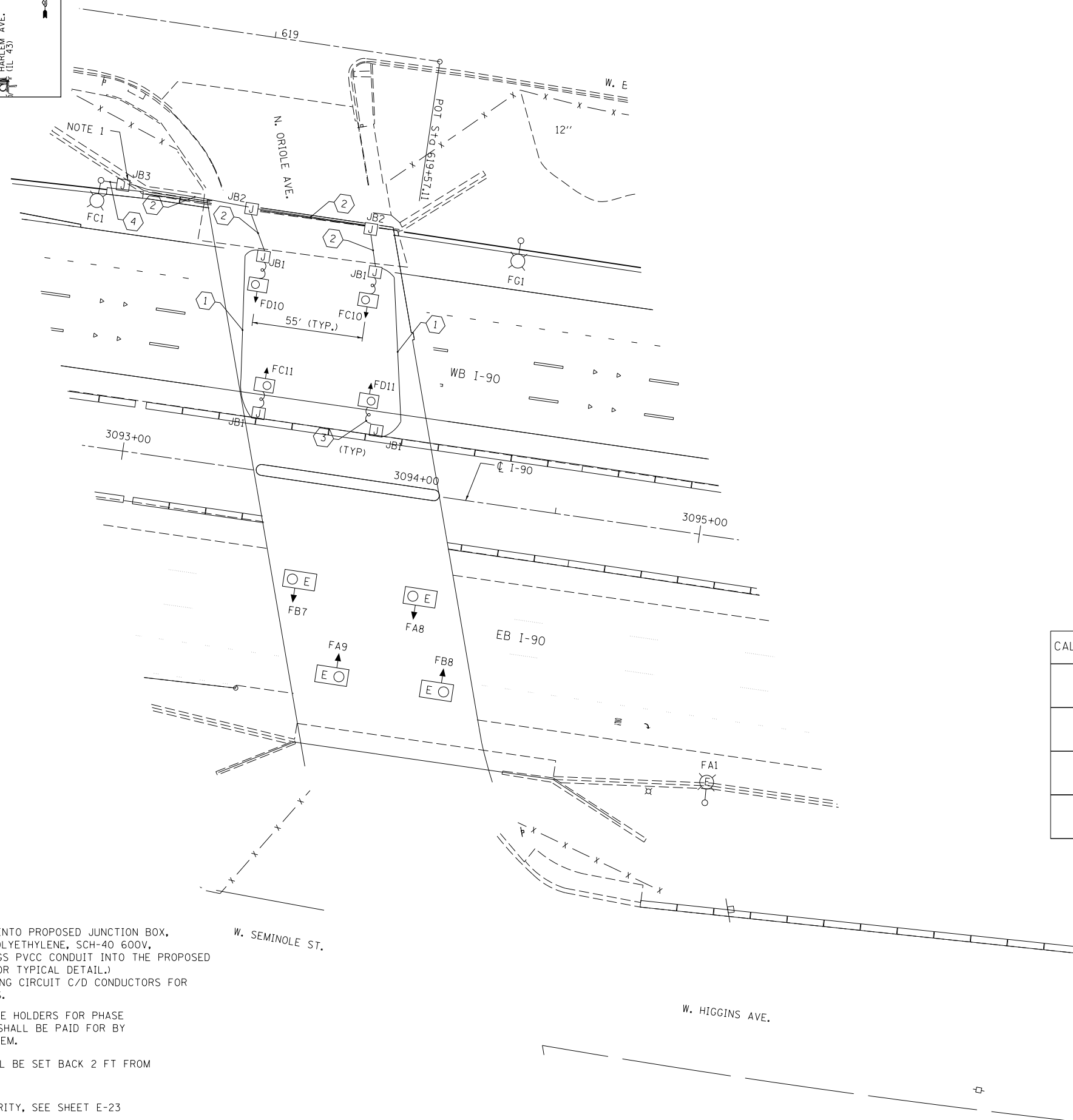
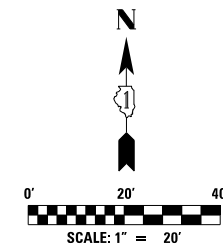
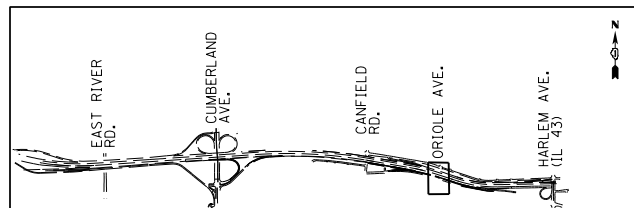
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	DRAWN KFA	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS LIGHTING PLAN  
CANFIELD AVENUE OVER WESTBOUND I-90**

SCALE: 1"=20" SHEET NO. 1 OF 1 SHEETS STA. 3057+00 TO STA. 3083+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	342
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				



**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	2-1/2" #10 AND 1-1/2" #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
②	3-1/2" #10 AND 1-1/2" #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
③	2-1/2" #10 AND 1-1/2" #10 GND IN 1" DIA. LIQUID TIGHT FLEXIBLE CONDUIT (CIRCUITS AS INDICATED ON THIS DRAWING)
④	1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/2" #2 & 1/2" #4 GROUND (XLP-TYPE USE) (CIRCUITS AS INDICATED ON THIS DRAWING)

**NOTES:**

- INSTALL PROPOSED 3" DIA. PVCC RGS CONDUIT INTO PROPOSED JUNCTION BOX, AND ROUTE LIGHTING UNIT DUCT, 1 1/2" DIA. POLYETHYLENE, SCH-40 600V, 3-1/2" #2 & 1/2" #4 GROUND THROUGH 3" DIA. RGS PVCC CONDUIT INTO THE PROPOSED JUNCTION BOX (SEE DETAIL D ON SHEET E-43 FOR TYPICAL DETAIL.) MAKE SPLICE CONNECTIONS TO PROPOSED LIGHTING CIRCUIT C/D CONDUCTORS FOR FINAL LIGHTING FEED TO UNDERPASS LUMINAIRES.
- INSTALL 30A FUSES WITH DISCONNECT TYPE FUSE HOLDERS FOR PHASE WIRES IN PROPOSED JUNCTION BOX. THIS WORK SHALL BE PAID FOR BY THE LUMINAIRE, UNDERPASS, LED TYPE B PAY ITEM.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHALL BE SET BACK 2 FT FROM THE EDGE OF TRAVELLED PAVEMENT.
- PROPOSED CABLE CONNECTION OMITTED FOR CLARITY, SEE SHEET E-23 FOR CONTINUATION.



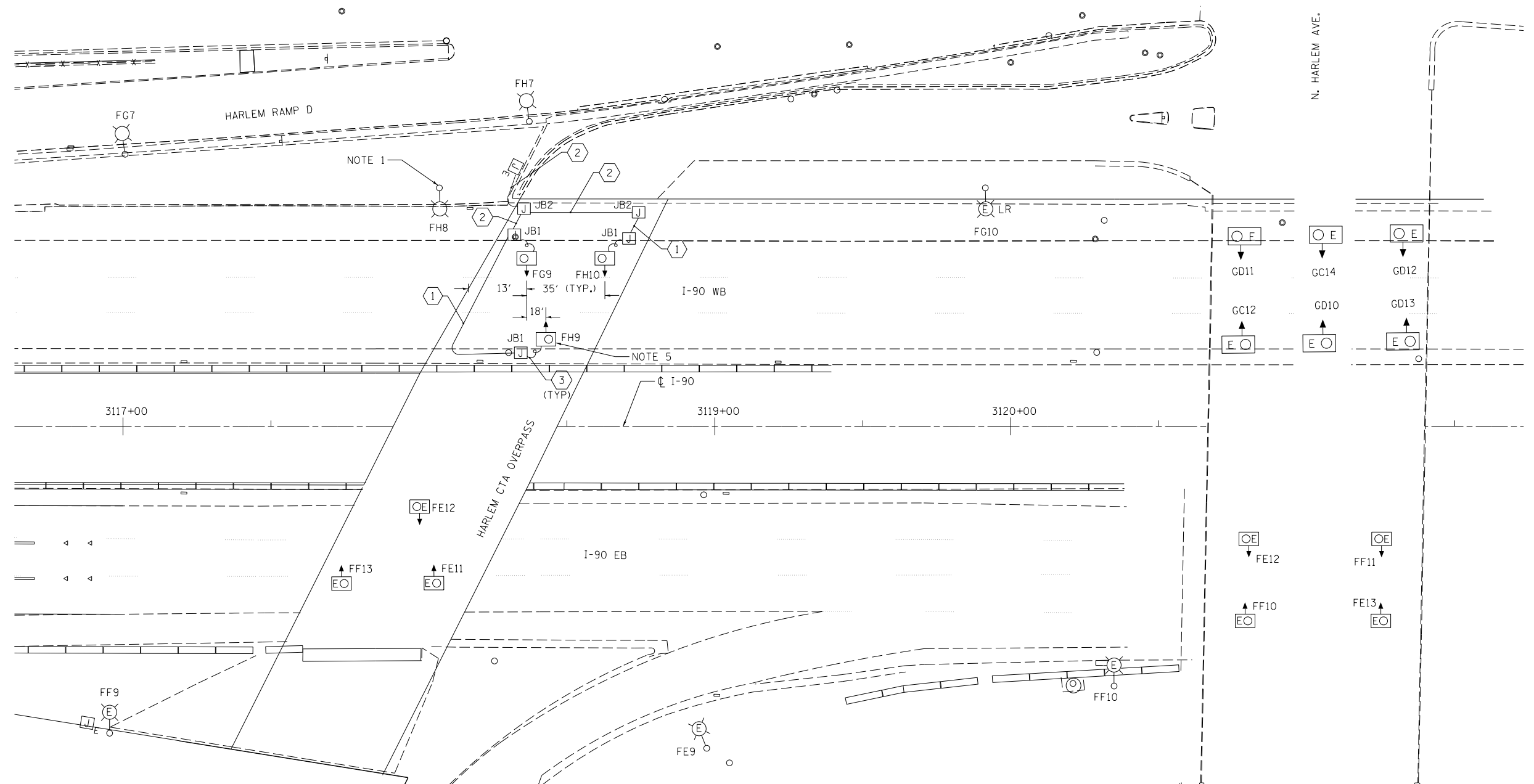
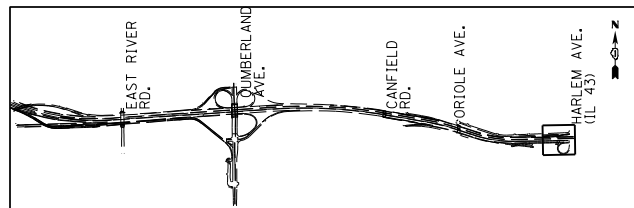
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	DRAWN KFA	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS LIGHTING PLAN  
ORIOLE AVENUE OVER WESTBOUND I-90**

SCALE: 1"=20" SHEET NO. 1 OF 1 SHEETS STA. 3083+00 TO STA. 3109+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	343
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				



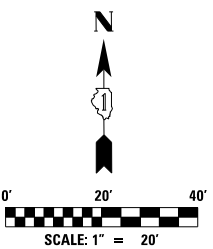
**NOTES:**

1. INTERCEPT EXISTING UNDERGROUND CONDUIT FROM EXISTING JUNCTION AND ROUTE INTO PROPOSED LIGHTING UNIT "FG8". MAKE SPLICE CONNECTIONS TO PROPOSED LIGHTING CIRCUIT G/H CONDUCTORS FOR FINAL LIGHTING FEED TO UNDERPASS LUMINAIRES.
2. INSTALL 30A FUSES WITH DISCONNECT TYPE FUSE HOLDERS FOR PHASE WIRES IN EXISTING JUNCTION BOX. THIS WORK SHALL BE PAID FOR BY THE LUMINAIRE, UNDERPASS, LED TYPE B PAY ITEM.
3. ALL PROPOSED UNDERPASS LIGHTING UNITS SHALL BE SET BACK 2 FT FROM THE EDGE OF TRAVELLED PAVEMENT.
4. PROPOSED CABLE CONNECTION OMITTED FOR CLARITY, SEE SHEET E-24 FOR CONTINUATION.

5. FOR CLARITY, PROPOSED UNDERPASS LUMINAIRE "FH9" SHALL BE LOCATED AT 3118+94, SETBACK 2' EOP.

**CONDUIT/CABLE SCHEDULE**

CALL OUT	DESCRIPTION
①	2-1/2" #10 AND 1-1/2" #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
②	3-1/2" #10 AND 1-1/2" #10 GND IN 1" DIA. PVCC RGC, ATTACHED TO STRUCTURE (CIRCUITS AS INDICATED ON THIS DRAWING)
③	2-1/2" #10 AND 1-1/2" #10 GND IN 1" DIA. LIQUID TIGHT FLEXIBLE CONDUIT (CIRCUITS AS INDICATED ON THIS DRAWING)



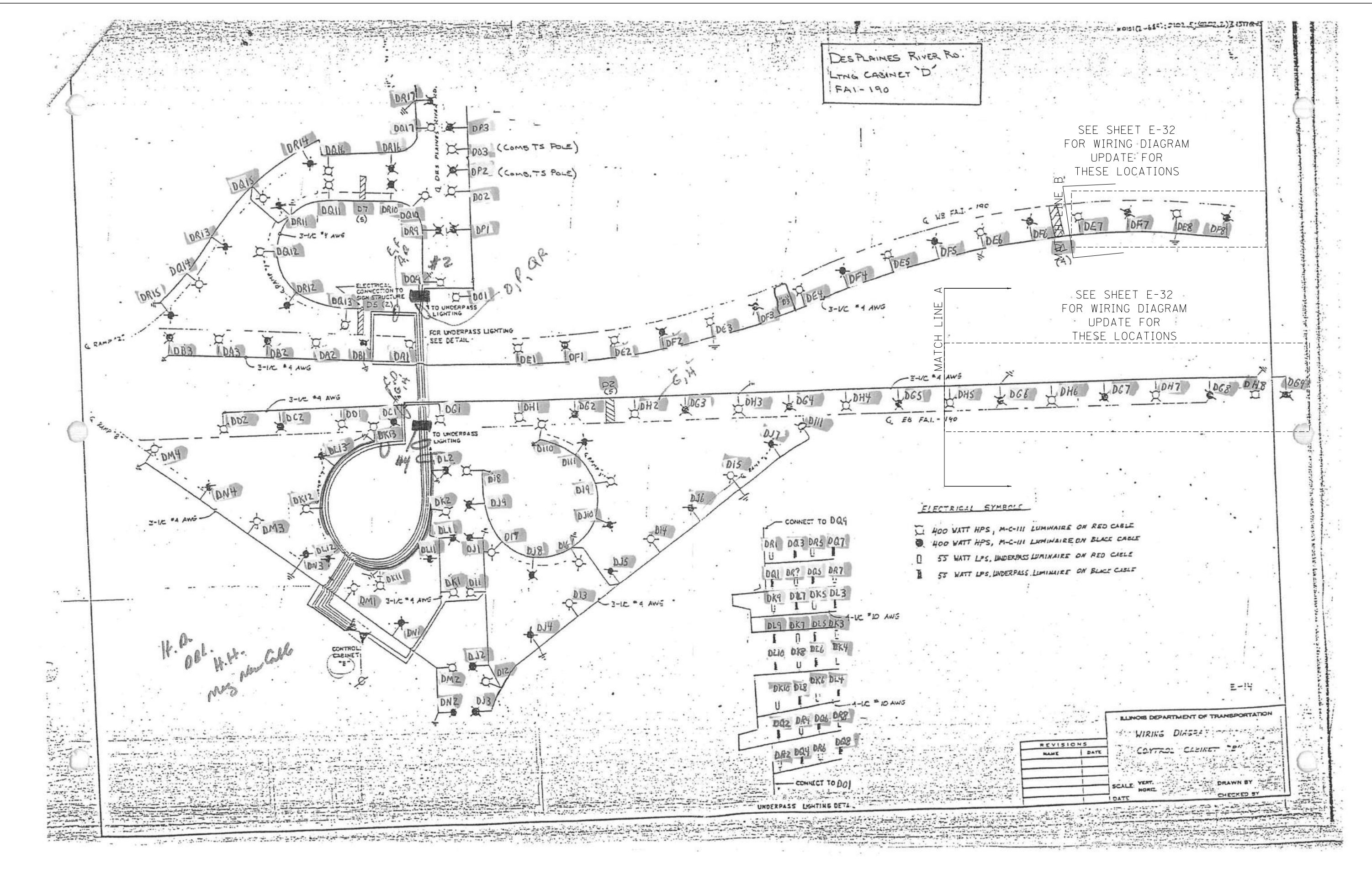
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	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
IDOT UNDERPASS LIGHTING PLAN  
HARLEM CTA, AND HARLEM AVENUE OVER WESTBOUND I-90**

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 344
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE	REVISED -

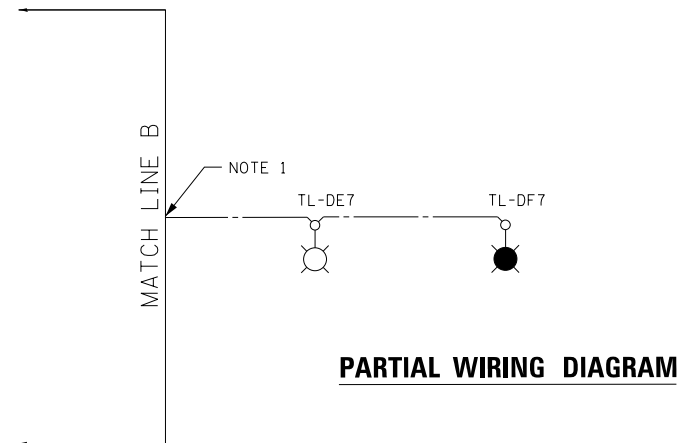
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IDOT LIGHTING CONTROLLER "D"  
ONE-LINE DIAGRAM (FOR INFORMATION ONLY)**

SCALE: SHEET NO.1 OF 2 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	345
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

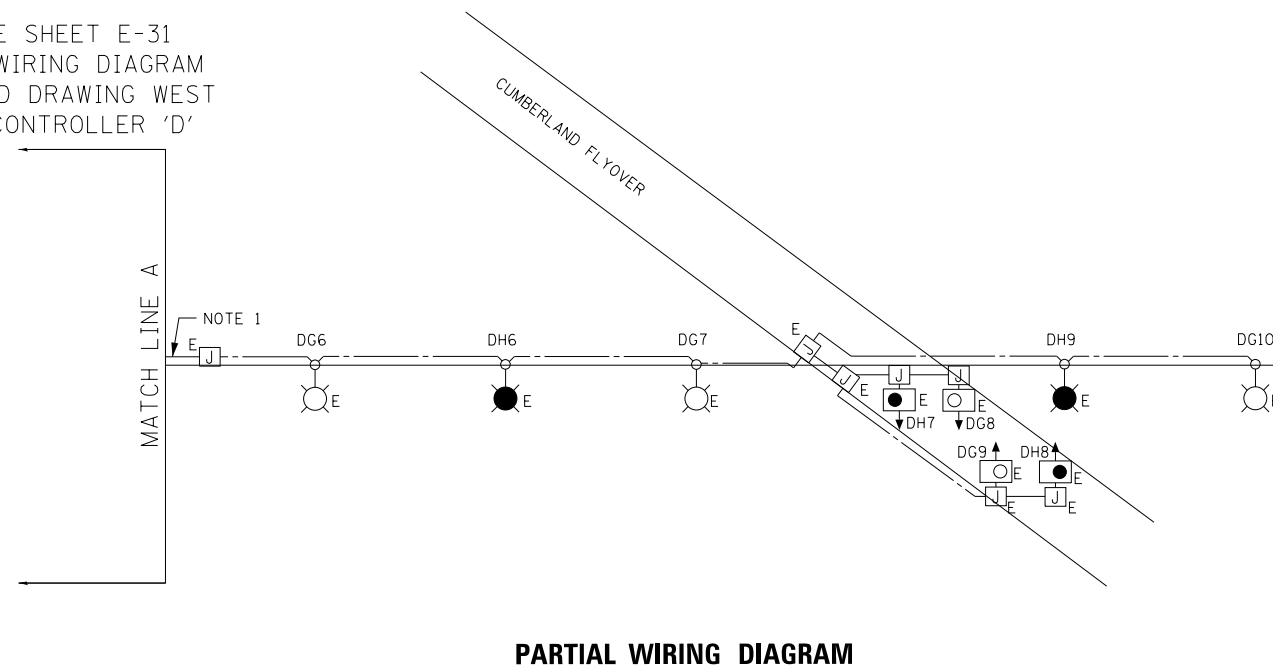
SEE SHEET E-31  
FOR WIRING DIAGRAM  
RECORD DRAWING WEST  
TO CONTROLLER 'D'



**SYMBOLS & LEGEND**

- TEMPORARY ROADWAY LUMINAIRE ON RED PHASE (750W)
- TEMPORARY ROADWAY LUMINAIRE ON BLACK PHASE (750W)
- EXISTING JUNCTION BOX IN PARAPET WALL
- EXISTING 70 WATT LUMINAIRE ON BLACK PHASE
- EXISTING 70 WATT LUMINAIRE ON RED PHASE

SEE SHEET E-31  
FOR WIRING DIAGRAM  
RECORD DRAWING WEST  
TO CONTROLLER 'D'



**NOTE:**

1. LOAD TABLE OF OTHER CIRCUITS OMITTED FOR CLARITY.



USER NAME = jblakley	DESIGNED - KFA	REVISED -
	DRAWN - KFA	REVISED -
PLOT SCALE = 1:8000' / 1"	CHECKED - MCD	REVISED -
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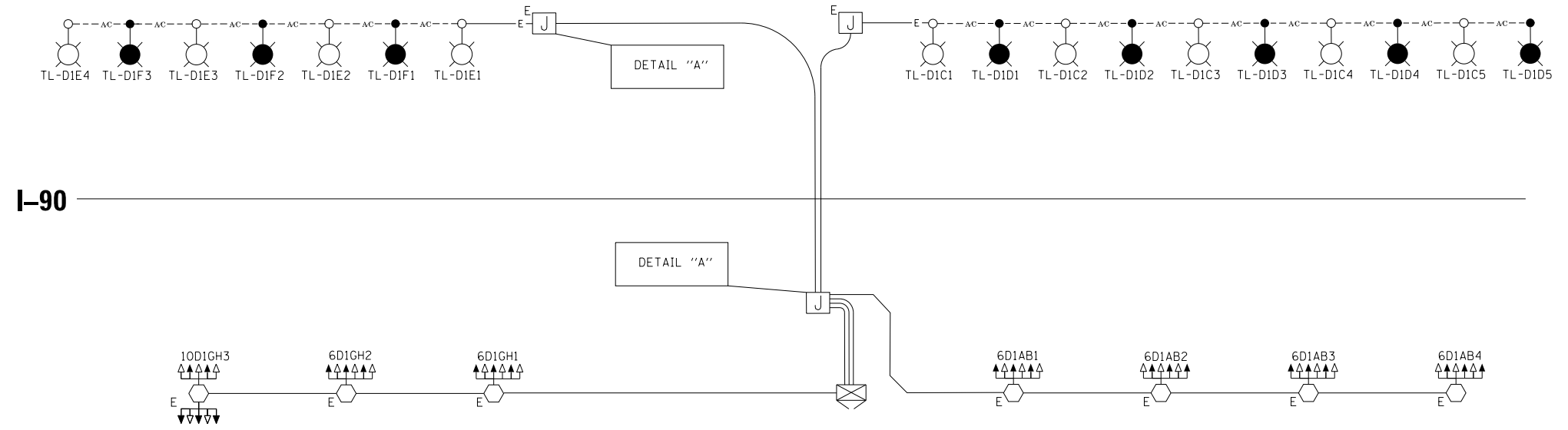
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING CONTROLLER "D"  
PARTIAL ONE-LINE DIAGRAM

SCALE: SHEET NO. 2 OF 2 SHEETS STA. 10+00.00 TO STA. 24+00.00

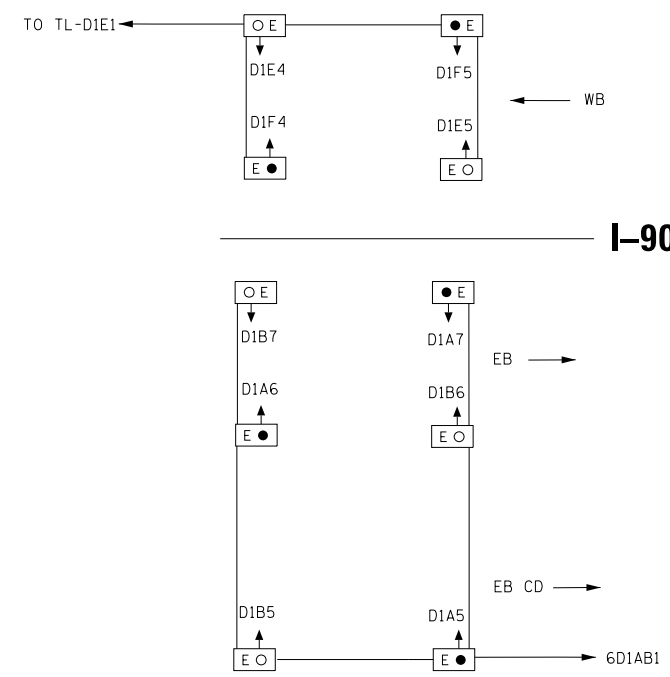
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	346
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				

**EAST RIVER ROAD**



**LEGEND**

- △ 400 WATT HPS M-C-III LUMINAIRE ON RED PHASE
- ▲ 400 WATT HPS M-C-III LUMINAIRE ON BLACK PHASE
- (with triangle) TEMPORARY ROADWAY LUMINAIRE ON RED PHASE
- (with triangle) TEMPORARY ROADWAY LUMINAIRE ON BLACK PHASE
- ⬆ (with E O) EXISTING UNDERPASS LUMINAIRE ON RED PHASE
- ⬆ (with E ●) EXISTING UNDERPASS LUMINAIRE ON BLACK PHASE
- ⊠ EXISTING LIGHTING CONTROLLER "D1", 240/480V 1-PHASE, 3 WIRE
- AC --- TEMPORARY AERIAL CABLE



**DETAIL "A"**  
**EAST RIVER ROAD UNDERPASS**

LOAD TABLE LIGHTING CONTROLLER "D1"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
C	25.42	----	6100	5-1000W HPS
D	----	25.42	6100	5-1000W HPS
E	21.35	----	5124	4-1000W HPS 2-100W HPS
F	----	16.27	3904	3-1000W HPS 2-100W HPS
TOTAL WATTS	11.22 KW	10.01 KW		



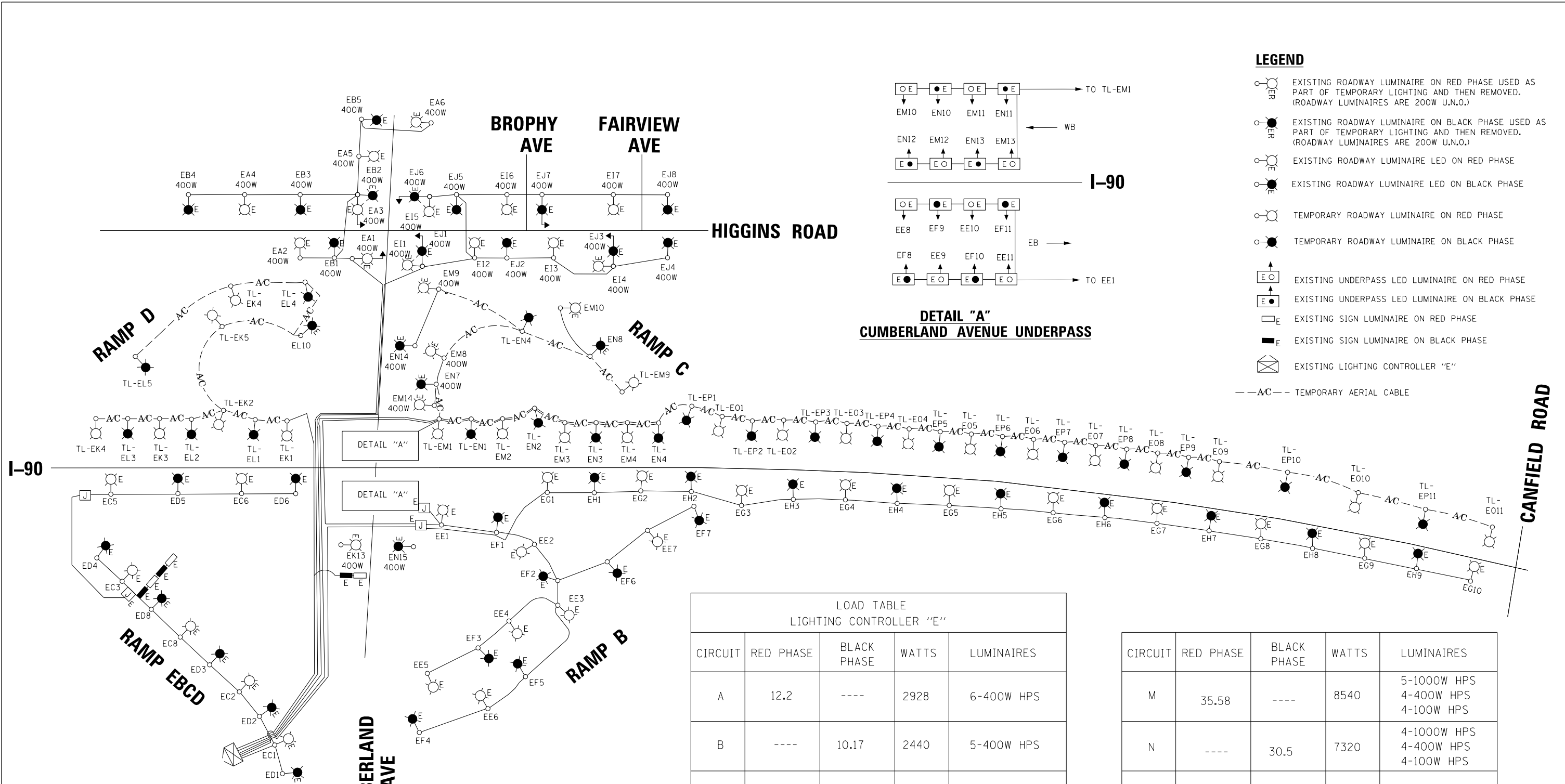
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PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

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

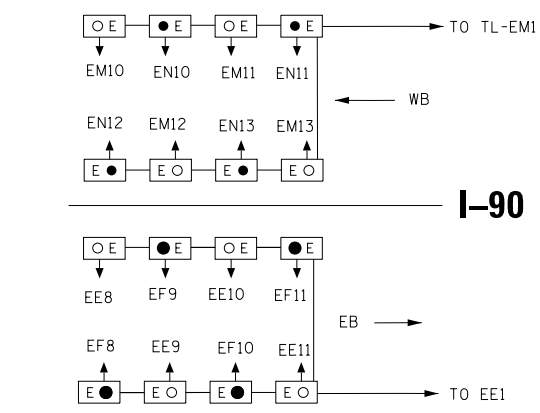
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE**  
**IDOT TEMPORARY LIGHTING CONTROLLER "D1"**  
**ONE-LINE DIAGRAM**

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 347
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	



- LEGEND**
- EXISTING ROADWAY LUMINAIRE ON RED PHASE USED AS PART OF TEMPORARY LIGHTING AND THEN REMOVED. (ROADWAY LUMINAIRES ARE 200W U.N.O.)
  - EXISTING ROADWAY LUMINAIRE ON BLACK PHASE USED AS PART OF TEMPORARY LIGHTING AND THEN REMOVED. (ROADWAY LUMINAIRES ARE 200W U.N.O.)
  - EXISTING ROADWAY LUMINAIRE LED ON RED PHASE
  - EXISTING ROADWAY LUMINAIRE LED ON BLACK PHASE
  - TEMPORARY ROADWAY LUMINAIRE ON RED PHASE
  - TEMPORARY ROADWAY LUMINAIRE ON BLACK PHASE
  - EXISTING UNDERPASS LED LUMINAIRE ON RED PHASE
  - EXISTING UNDERPASS LED LUMINAIRE ON BLACK PHASE
  - EXISTING SIGN LUMINAIRE ON RED PHASE
  - EXISTING SIGN LUMINAIRE ON BLACK PHASE
  - EXISTING LIGHTING CONTROLLER "E"
  - AC-- TEMPORARY AERIAL CABLE



**DETAIL "A"**  
**CUMBERLAND AVENUE UNDERPASS**

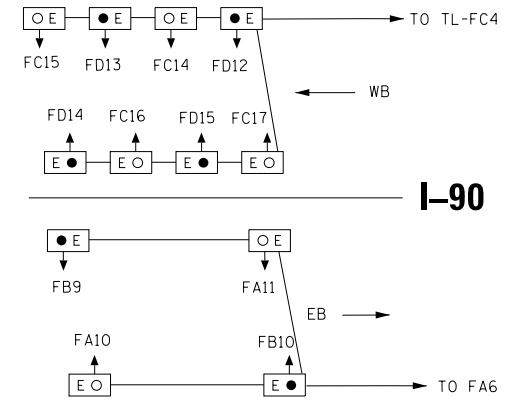
LOAD TABLE LIGHTING CONTROLLER "E"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
A	12.2	----	2928	6-400W HPS
B	----	10.17	2440	5-400W HPS
I	14.23	----	3416	7-400W HPS
J	----	16.27	3904	8-400W HPS
K	35.58	----	8540	7-1000W HPS
L	----	30.5	7320	6-1000W HPS

CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
M	35.58	----	8540	5-1000W HPS 4-400W HPS 4-100W HPS
N	----	30.5	7320	4-1000W HPS 4-400W HPS 4-100W HPS
O	55.92	----	13420	11-1000W HPS
P	----	55.92	13420	11-1000W HPS
TOTAL WATTS	11.22 KW	10.01 KW		

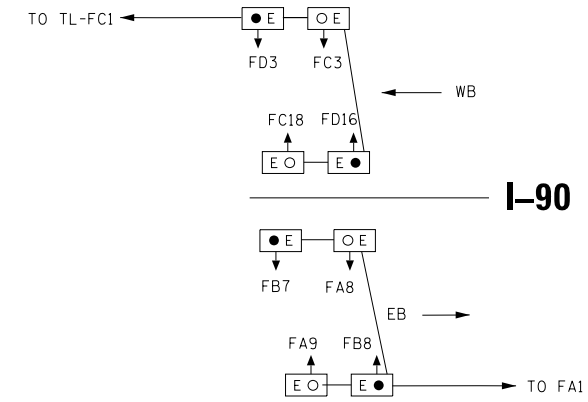
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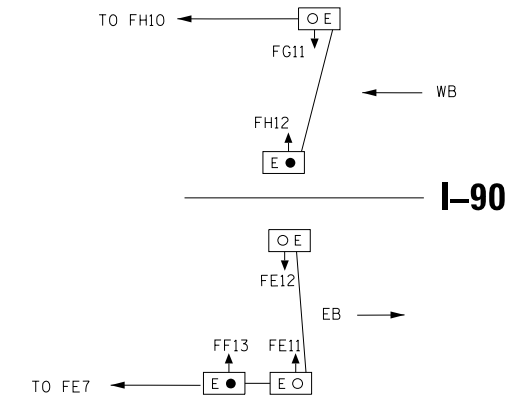
**CANFIELD AVENUE**



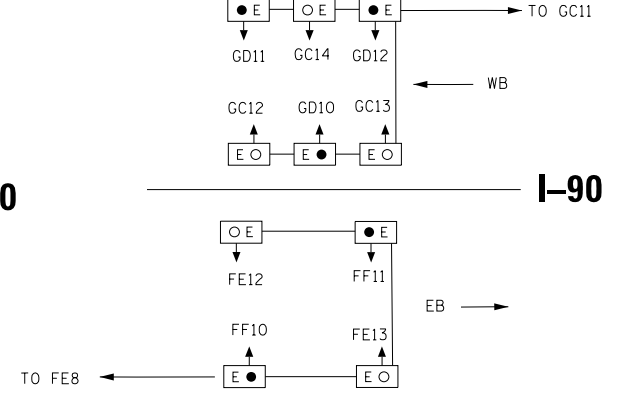
**DETAIL "A" (ON THIS SHEET)**  
**CANFIELD AVENUE UNDERPASS**



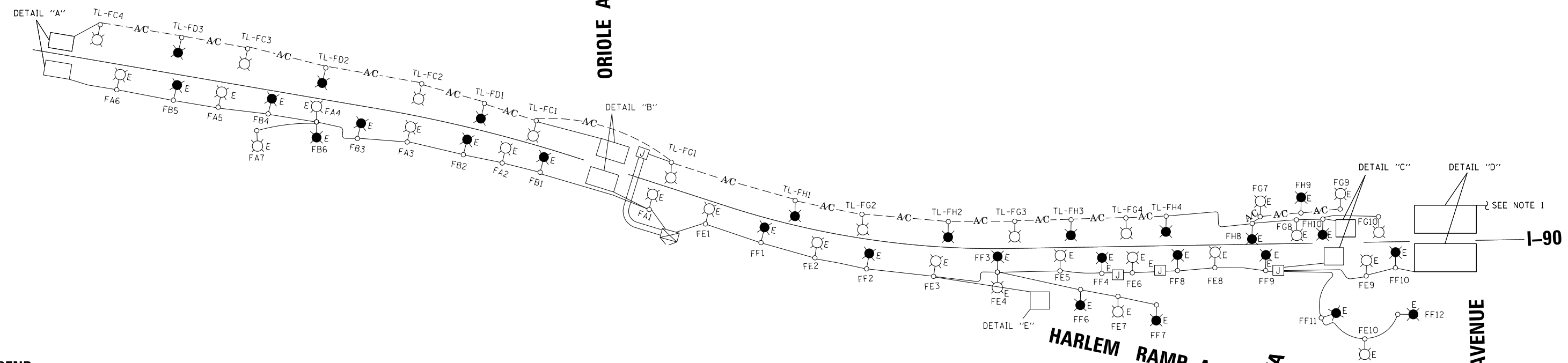
**DETAIL "B" (ON THIS SHEET)**  
**ORIOLE AVENUE UNDERPASS**



**DETAIL "C" (ON THIS SHEET)**  
**HARLEM CTA UNDERPASS**



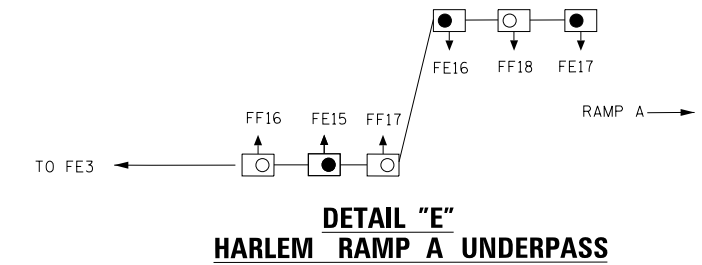
**DETAIL "D" (ON THIS SHEET)**  
**HARLEM AVENUE UNDERPASS**



**LEGEND**

- EXISTING ROADWAY LUMINAIRE LED ON RED PHASE
- EXISTING ROADWAY LUMINAIRE LED ON BLACK PHASE
- TEMPORARY ROADWAY LUMINAIRE ON RED PHASE
- TEMPORARY ROADWAY LUMINAIRE ON BLACK PHASE
- EXISTING UNDERPASS LED LUMINAIRE ON RED PHASE
- EXISTING UNDERPASS LED LUMINAIRE ON BLACK PHASE
- PROPOSED UNDERPASS LUMINAIRE LED ON RED PHASE
- PROPOSED UNDERPASS LUMINAIRE LED ON BLACK PHASE
- EXISTING SIGN LUMINAIRE ON RED PHASE
- EXISTING SIGN LUMINAIRE ON BLACK PHASE
- EXISTING LIGHTING CONTROLLER "F"
- AC---

LOAD TABLE LIGHTING CONTROLLER "F"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
C	22.47	----	5392.4	4-1000W HPS 6-70W HPS
D	----	17.39	4172.4	3-1000W HPS 6-70W HPS
G	26.79	----	6429.4	4-1000W HPS 3-400W HPS 1-70W HPS
H	----	26.79	6429.4	4-1000W HPS 3-400W HPS 1-70W HPS
TOTAL WATTS	11.82 KW	10.60 KW		



**DETAIL "E"**  
**HARLEM RAMP A UNDERPASS**

**NOTES:**

1. WB UNDERPASS LUMINAIRES AT HARLEM AVENUE POWERED BY EXISTING LIGHTING CONTROLLER "G" CIRCUIT C/D.



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

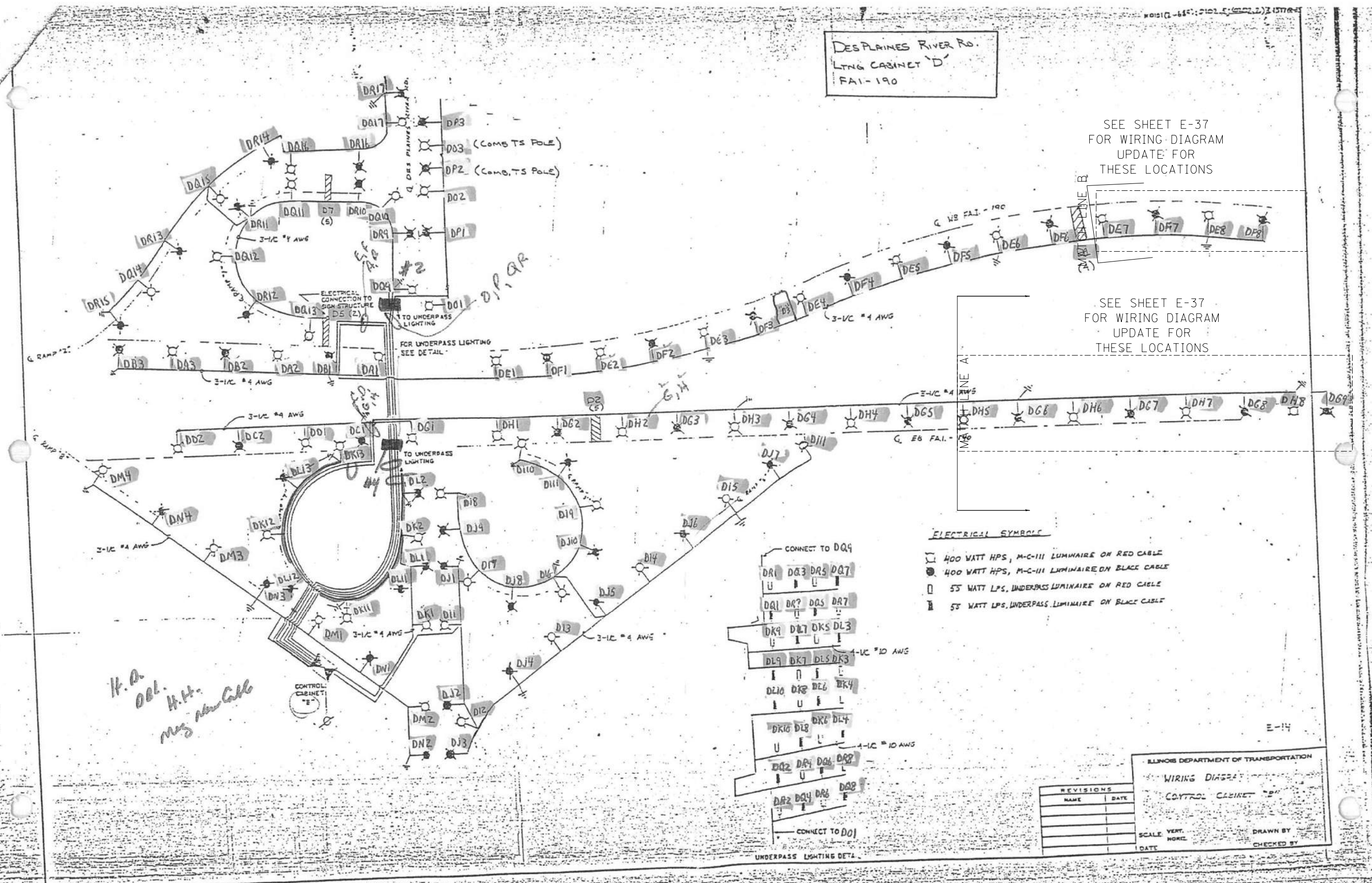
IDOT TEMPORARY LIGHTING CONTROLLER "F" ONE-LINE DIAGRAM			
SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. 10+00.00 TO STA. 24+00.00	

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 349
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

DES PLAINES RIVER RD.  
LTNG CABINET 'D'  
FAI-190

SEE SHEET E-37  
FOR WIRING DIAGRAM  
UPDATE FOR  
THESE LOCATIONS

SEE SHEET E-37  
FOR WIRING DIAGRAM  
UPDATE FOR  
THESE LOCATIONS



- ELECTRICAL SYMBOLS**
- 400 WATT HPS, M-C-III LUMINAIRE ON RED CABLE
  - 400 WATT HPS, M-C-III LUMINAIRE ON BLACK CABLE
  - 55 WATT LPS, UNDERPASS LUMINAIRE ON RED CABLE
  - 55 WATT LPS, UNDERPASS LUMINAIRE ON BLACK CABLE



REVISIONS	
NAME	DATE

SCALE: VERT. HORIZ. DATE

DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

*K.A. OBL.  
H.H. mag new call*







STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING CONTROLLER "D"  
ONE-LINE DIAGRAM (FOR INFORMATION ONLY)

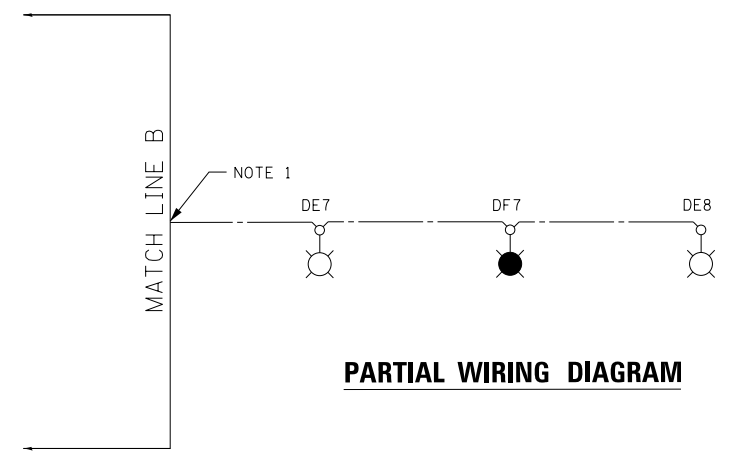
SCALE: SHEET NO.1 OF 2 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	350
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

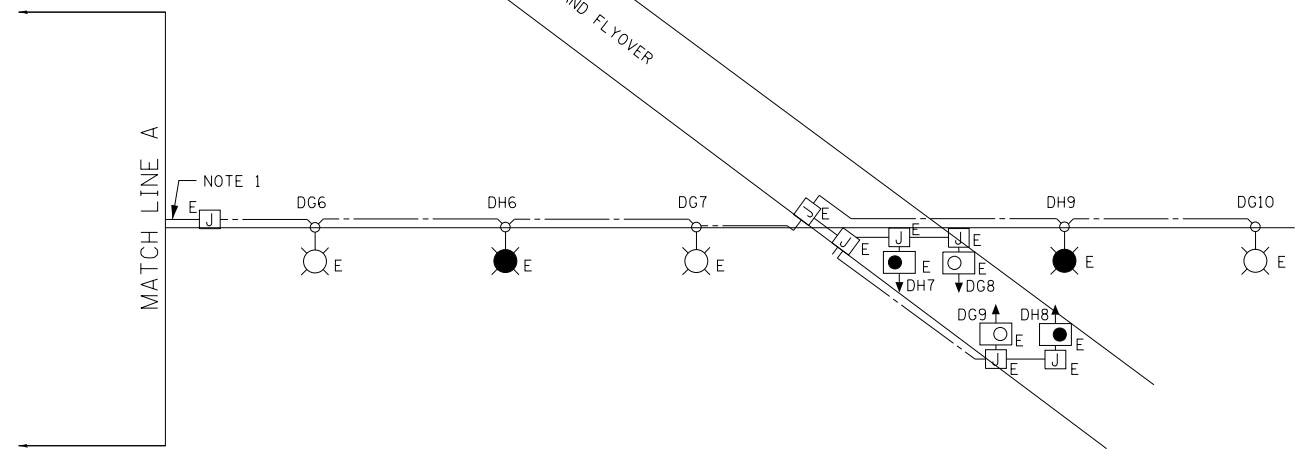
**SYMBOLS & LEGEND**

-  400W HPS, M-C-III LUMINAIRE ON RED PHASE
-  400W HPS, M-C-III LUMINAIRE ON BLACK PHASE
-  PROPOSED JUNCTION BOX
-  EXISTING JUNCTION BOX IN PARAPET WALL
-  70 WATT LUMINAIRE ON BLACK PHASE
-  70 WATT LUMINAIRE ON RED PHASE

SEE SHEET E-36 FOR WIRING DIAGRAM RECORD DRAWING WEST TO CONTROLLER 'D'

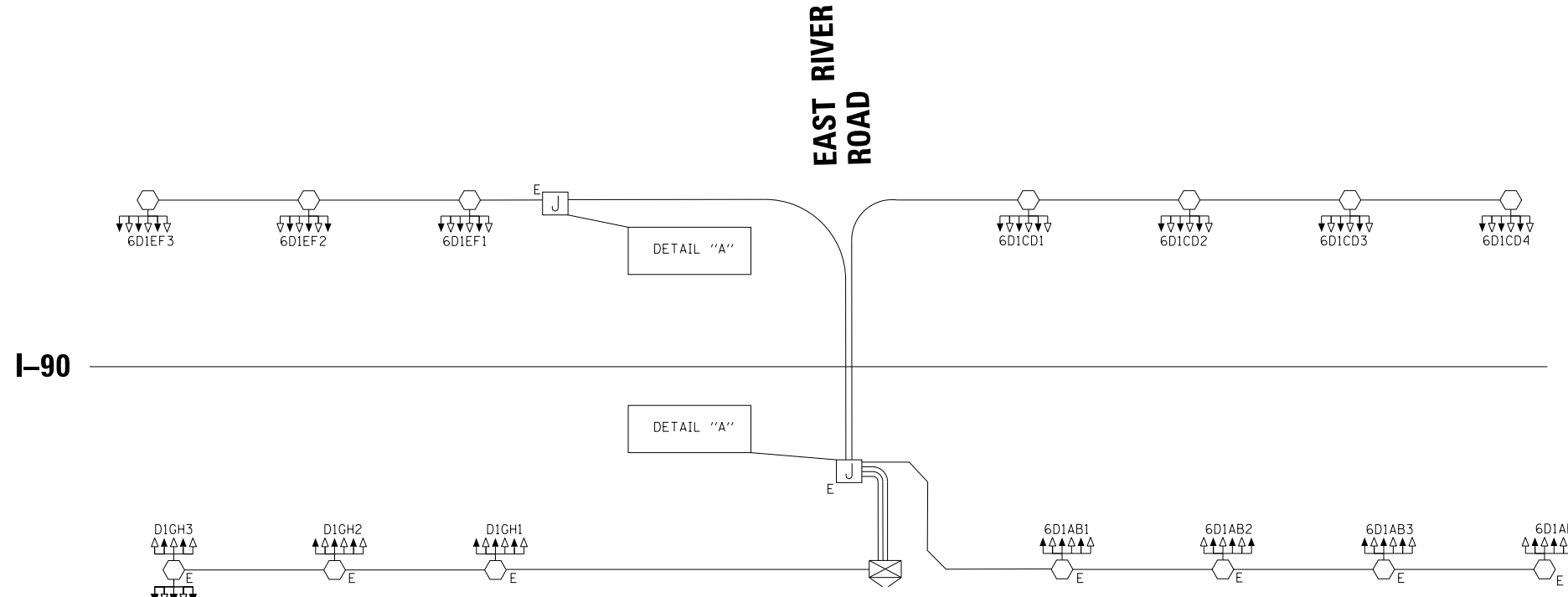


SEE SHEET E-36 FOR WIRING DIAGRAM RECORD DRAWING WEST TO CONTROLLER 'D'



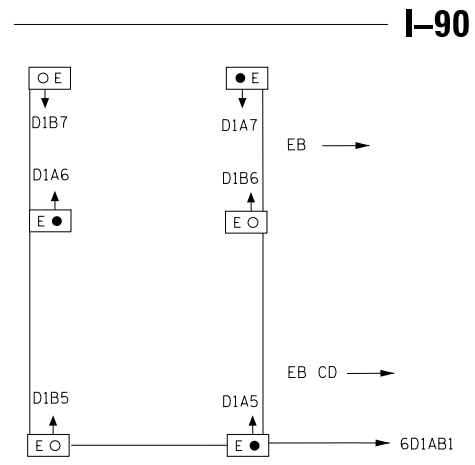
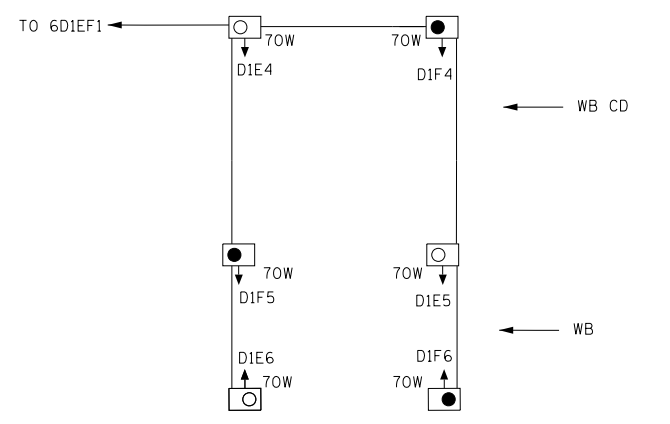
**NOTE:**

1. LOAD TABLE OF OTHER CIRCUITS OMITTED FOR CLARITY.



**LEGEND**

- △ 400 WATT HPS M-C-III LUMINAIRE ON RED PHASE
- ▲ 400 WATT HPS M-C-III LUMINAIRE ON BLACK PHASE
- 70W PROPOSED 70 WATT LUMINAIRE ON RED PHASE
- 70W PROPOSED 70 WATT LUMINAIRE ON BLACK PHASE
- E ○ EXISTING UNDERPASS LUMINAIRE ON RED PHASE
- E ● EXISTING UNDERPASS LUMINAIRE ON BLACK PHASE
- ⊠ EXISTING LIGHTING CONTROLLER "D1", 240/480V 1-PHASE, 3 WIRE



**DETAIL "A"**  
**EAST RIVER ROAD UNDERPASS**

LOAD TABLE LIGHTING CONTROLLER "D1"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
C	24.4	----	5856	12-400W HPS
D	----	24.4	5856	12-400W HPS
E	19.37	----	4648.2	9-400W HPS 3-70W HPS
F	19.37	----	4648.2	9-400W HPS 3-70W HPS
TOTAL WATTS	10.5 KW	10.5 KW		

TOTAL WATTS 21.05 KW 21.05 KW



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

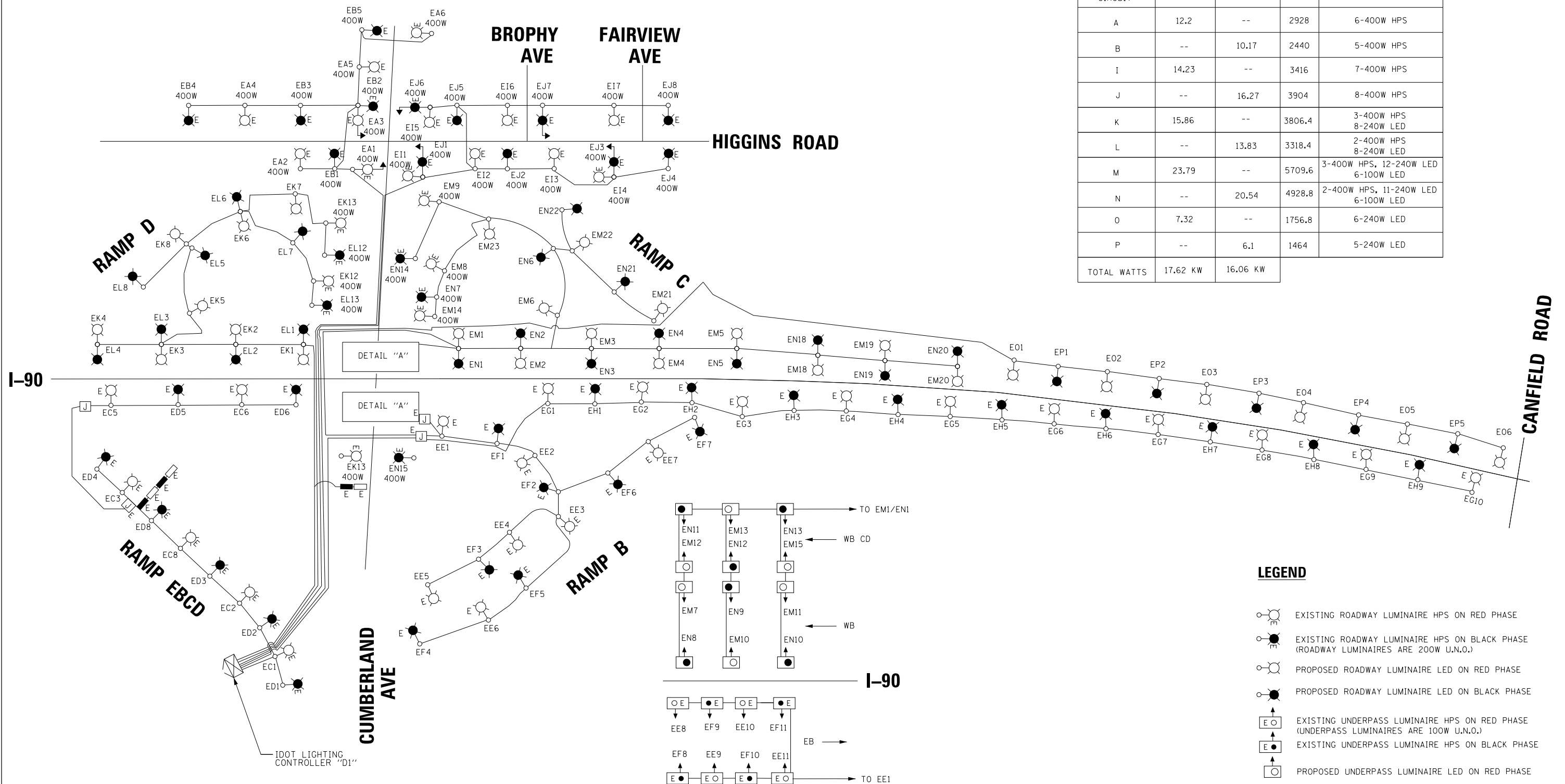
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IDOT PROPOSED LIGHTING CONTROLLER "D1"**  
**ONE-LINE DIAGRAM**

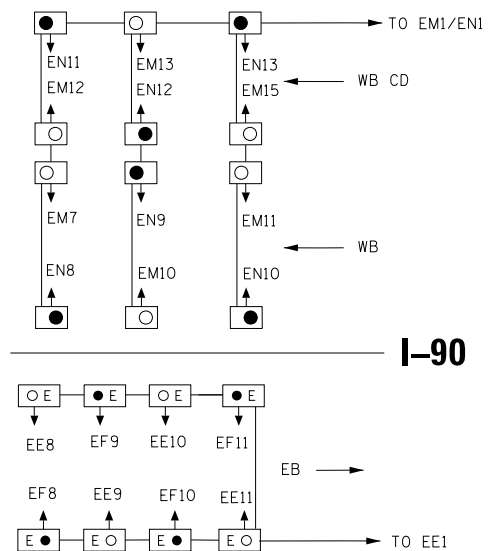
SCALE: SHEET NO.1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	352
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

LOAD TABLE FINAL LIGHTING CONTROLLER "E"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
A	12.2	--	2928	6-400W HPS
B	--	10.17	2440	5-400W HPS
I	14.23	--	3416	7-400W HPS
J	--	16.27	3904	8-400W HPS
K	15.86	--	3806.4	3-400W HPS 8-240W LED
L	--	13.83	3318.4	2-400W HPS 8-240W LED
M	23.79	--	5709.6	3-400W HPS, 12-240W LED 6-100W LED
N	--	20.54	4928.8	2-400W HPS, 11-240W LED 6-100W LED
O	7.32	--	1756.8	6-240W LED
P	--	6.1	1464	5-240W LED
TOTAL WATTS	17.62 KW	16.06 KW		



**DETAIL "A"**  
**CUMBERLAND AVENUE UNDERPASS**



**LEGEND**

- EXISTING ROADWAY LUMINAIRE HPS ON RED PHASE
- EXISTING ROADWAY LUMINAIRE HPS ON BLACK PHASE (ROADWAY LUMINAIRES ARE 200W U.N.O.)
- PROPOSED ROADWAY LUMINAIRE LED ON RED PHASE
- PROPOSED ROADWAY LUMINAIRE LED ON BLACK PHASE
- EXISTING UNDERPASS LUMINAIRE HPS ON RED PHASE (UNDERPASS LUMINAIRES ARE 100W U.N.O.)
- EXISTING UNDERPASS LUMINAIRE HPS ON BLACK PHASE
- PROPOSED UNDERPASS LUMINAIRE LED ON RED PHASE
- PROPOSED UNDERPASS LUMINAIRE LED ON BLACK PHASE
- EXISTING SIGN LUMINAIRE ON RED PHASE
- EXISTING SIGN LUMINAIRE ON BLACK PHASE
- EXISTING LIGHTING CONTROLLER "E", 240/480V 1-PHASE, 3 WIRE



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000 / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

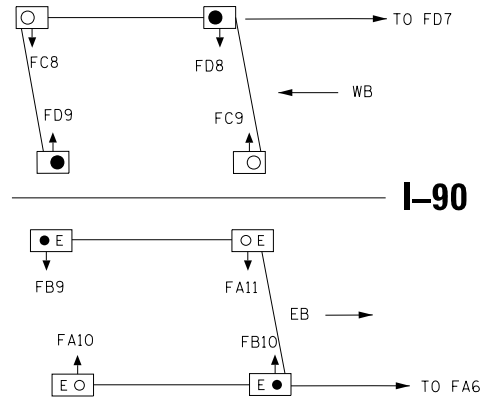
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT PROPOSED LIGHTING CONTROLLER "E"  
ONE-LINE DIAGRAM

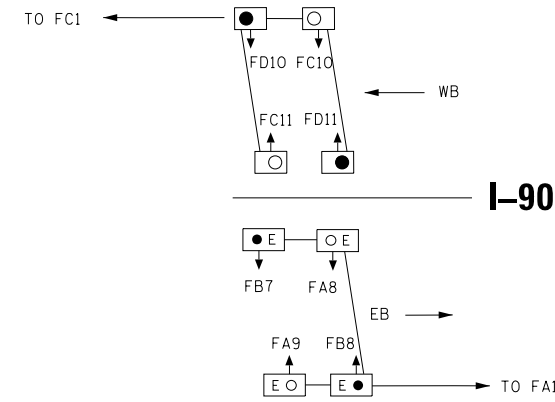
SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	353
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

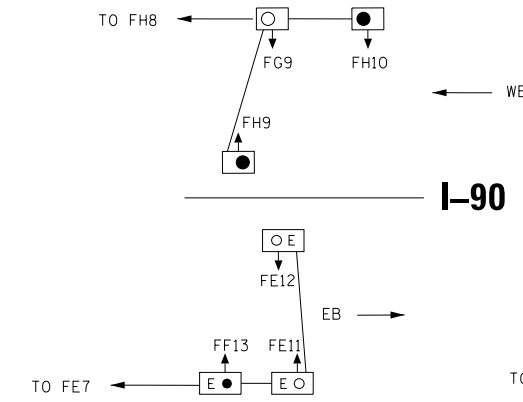
**CANFIELD AVENUE**



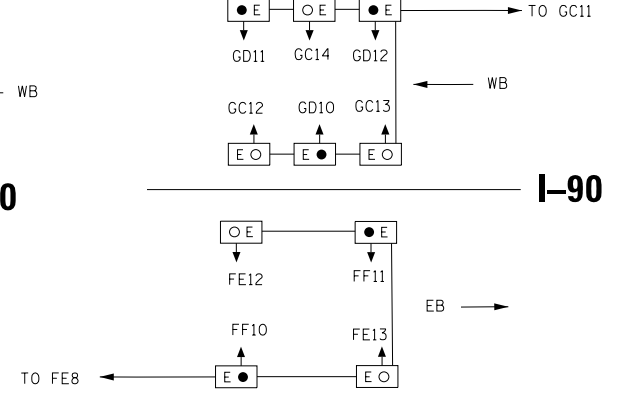
**DETAIL "A" (ON THIS SHEET)  
CANFIELD AVENUE UNDERPASS**



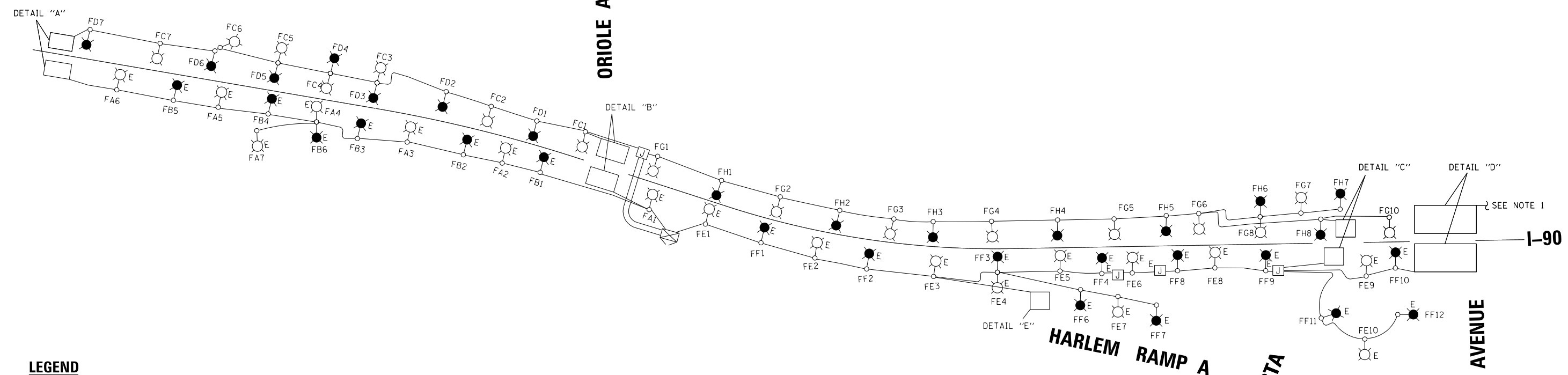
**DETAIL "B" (ON THIS SHEET)  
ORIOLE AVENUE UNDERPASS**



**DETAIL "C" (ON THIS SHEET)  
HARLEM CTA UNDERPASS**



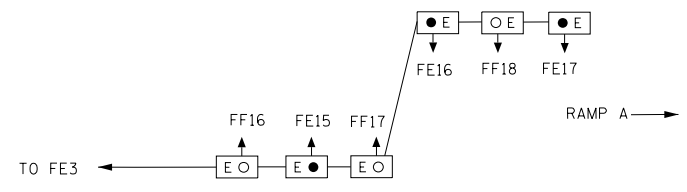
**DETAIL "D" (ON THIS SHEET)  
HARLEM AVENUE UNDERPASS**



**LEGEND**

- EXISTING ROADWAY LUMINAIRE HPS ON RED PHASE
- EXISTING ROADWAY LUMINAIRE HPS ON BLACK PHASE (ROADWAY LUMINAIRES ARE 200W U.N.O.)
- PROPOSED ROADWAY LUMINAIRE LED ON RED PHASE
- PROPOSED ROADWAY LUMINAIRE LED ON BLACK PHASE
- EXISTING UNDERPASS LUMINAIRE ON RED PHASE
- EXISTING UNDERPASS LUMINAIRE ON BLACK PHASE
- PROPOSED UNDERPASS LUMINAIRE LED ON RED PHASE
- PROPOSED UNDERPASS LUMINAIRE LED ON BLACK PHASE
- EXISTING SIGN LUMINAIRE ON RED PHASE
- EXISTING SIGN LUMINAIRE ON BLACK PHASE
- EXISTING LIGHTING CONTROLLER "F"

LOAD TABLE FINAL LIGHTING CONTROLLER "F"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
C	10.57	--	2537.6	7-240W LED 4-100W LED
D	--	10.57	2537.6	7-240W LED 4-100W LED
G	11.49	--	2757.2	9-240W LED 1-100W LED
H	--	10.78	2586.4	8-240W LED 2-100W LED
TOTAL WATTS	5.29 KW	5.12 KW		



**DETAIL "E"  
HARLEM RAMP A UNDERPASS**

**NOTES:**

- WB UNDERPASS LUMINAIRES AT HARLEM AVENUE POWERED BY EXISTING LIGHTING CONTROLLER "G" CIRCUIT C/D.



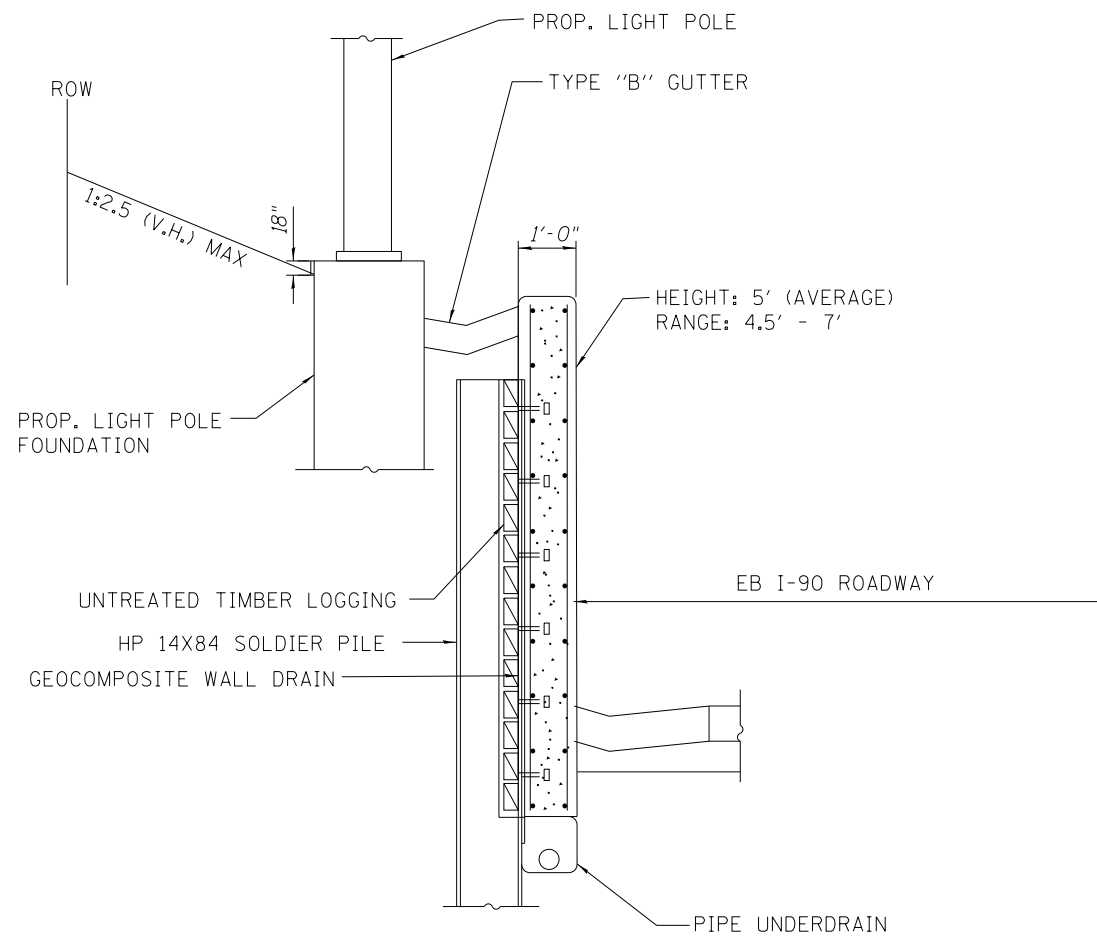
USER NAME = jblakley	DESIGNED KFA	REVISED -
PLOT SCALE = 1:8000' / 1"	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

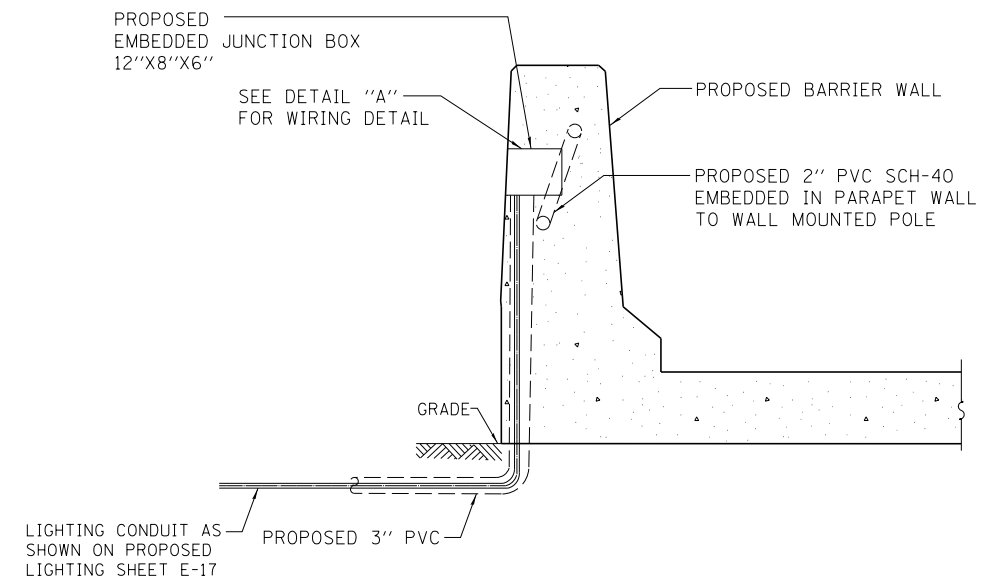
**IDOT PROPOSED LIGHTING CONTROLLER "F"  
ONE-LINE DIAGRAM**

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

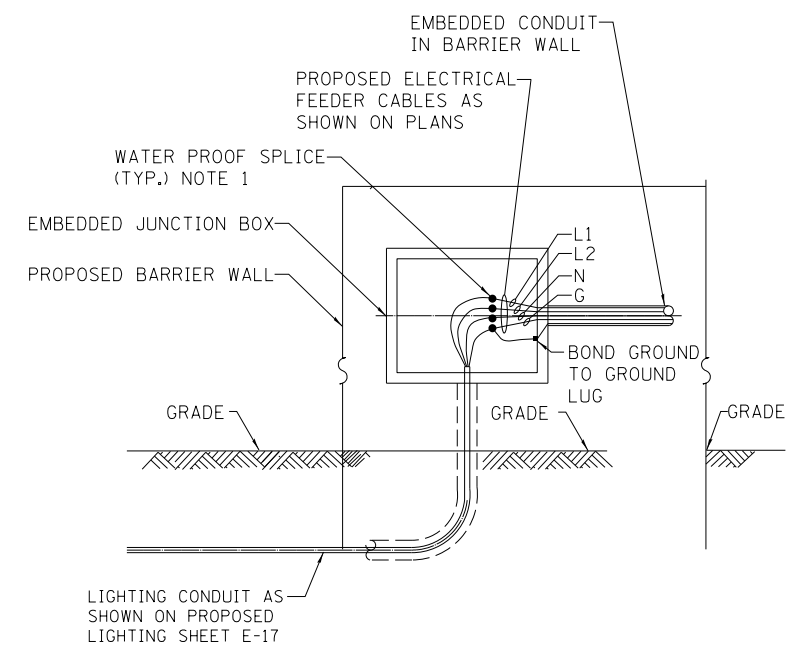
F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 354
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60Y39



**SECTION THRU PROPOSED SOLDIER PILE RETAINING WALL AND PROPOSED LIGHT POLE**  
N.T.S.

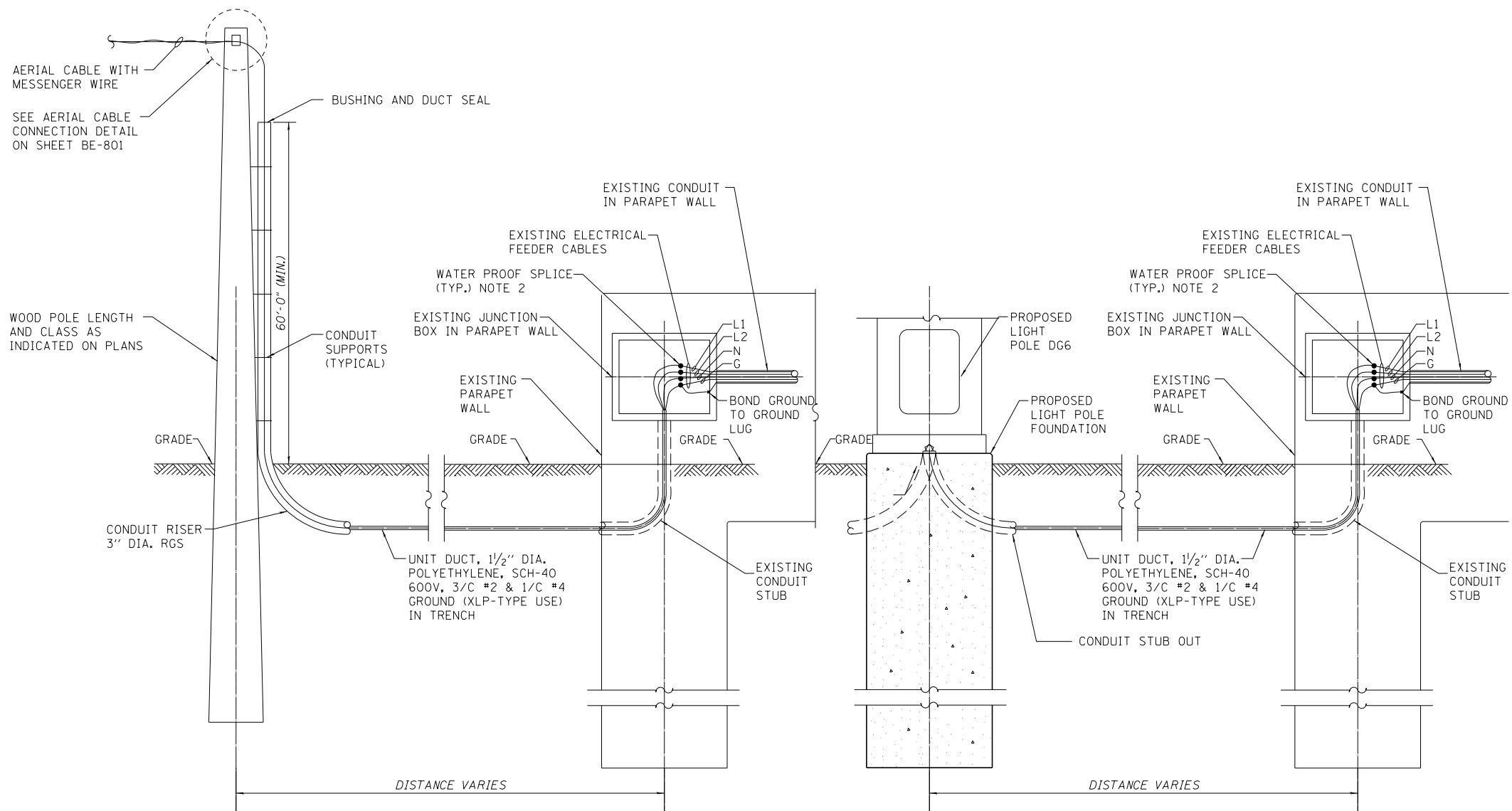


**PROPOSED EMBEDDED JUNCTION BOX DETAIL IN PROPOSED BARRIER WALL**  
N.T.S.



**NOTES:**

1. ALL SPLICES AND SOLID LUG MATERIALS SHALL BE INCLUDED AS PART OF THE ELECTRICAL CABLE IN CONDUIT, 600V(XLP-TYPE USE) 1/C NO. 2 PAY ITEM.



**TEMPORARY LIGHTING CONDUIT CONNECTION TO EXISTING JUNCTION BOX**  
N.T.S.

**PROPOSED LIGHT TOWER CONNECTION TO EXISTING JUNCTION BOX**  
N.T.S.

**NOTES:**

1. ALL SPLICES AT EXISTING LIGHT TOWERS, AND JUNCTION BOX SHALL BE INCLUDED AS PART OF THE MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.
2. ALL FUSES AND SOLID LUG MATERIALS INCLUDED AS PART OF THE MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.
3. CONTRACTOR SHALL USE EXISTING FUSES AND SOLID LUG FOR TEMPORARY LIGHTING CONNECTIONS ONLY, WHEN CONNECTING FINAL LIGHTING CIRCUITS CONTRACTOR SHALL PROVIDE NEW FUSES AND SOLID LUGS AS SHOWN.
4. ALL RISERS AND MATERIALS NEEDED TO ATTACH UNIT DUCT CABLE TO WOOD POLE SHALL BE PAID FOR BY MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000' / 1"	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

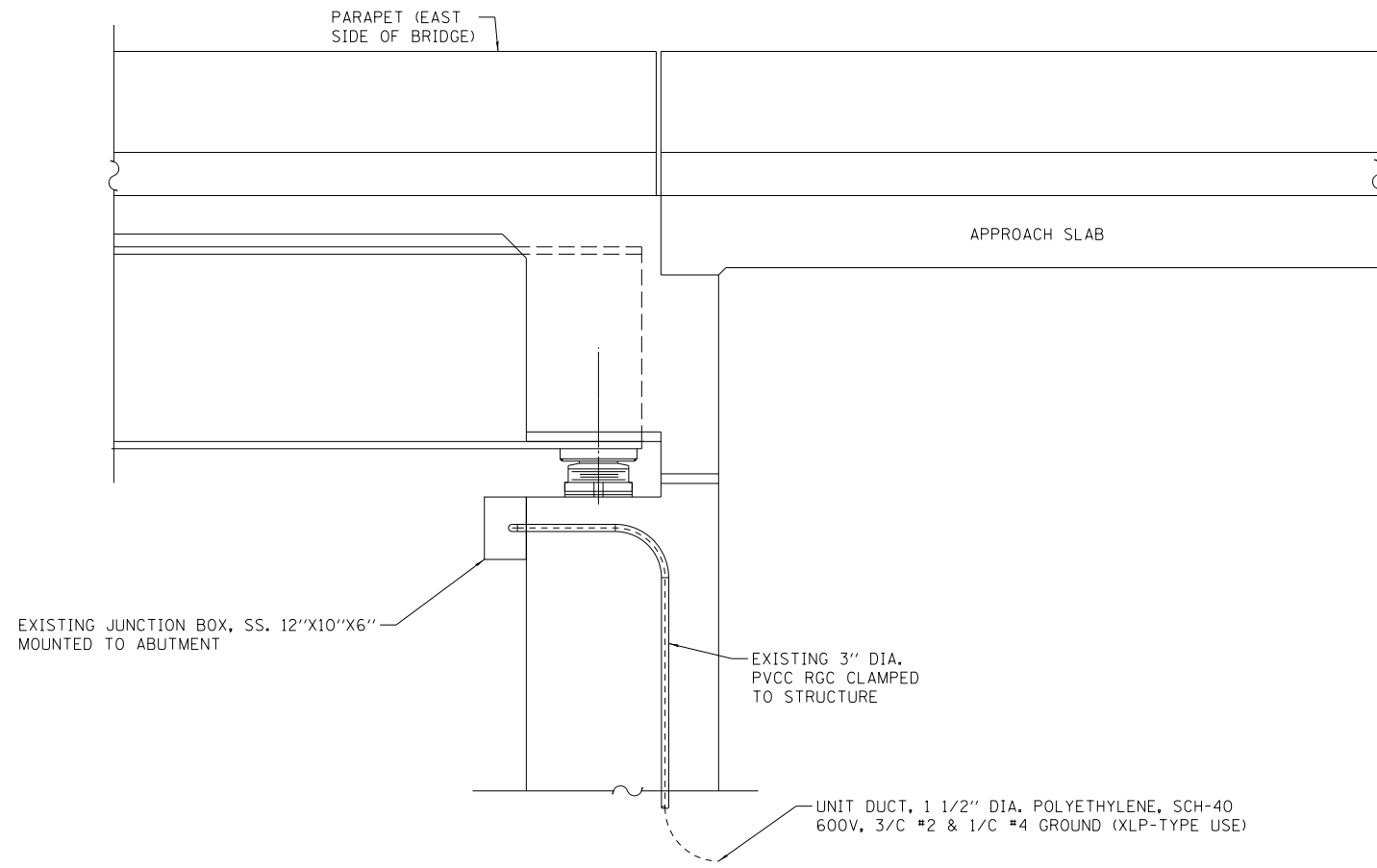
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IDOT ROADWAY LIGHTING  
CONNECTION DETAILS**

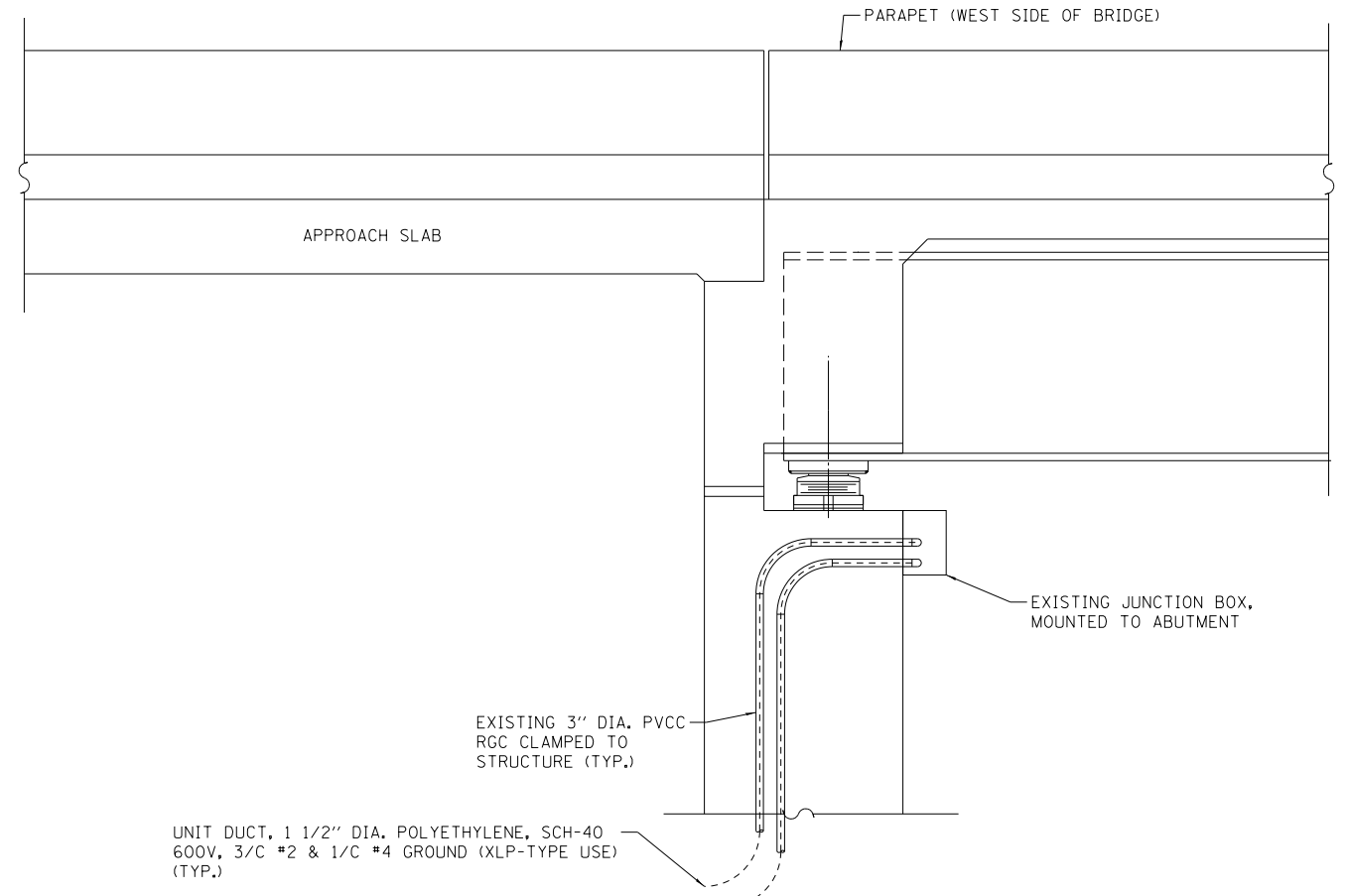
SCALE: NTS SHEET NO. OF 1 SHEETS STA. 66+00.00 TO STA. 81+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	356
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

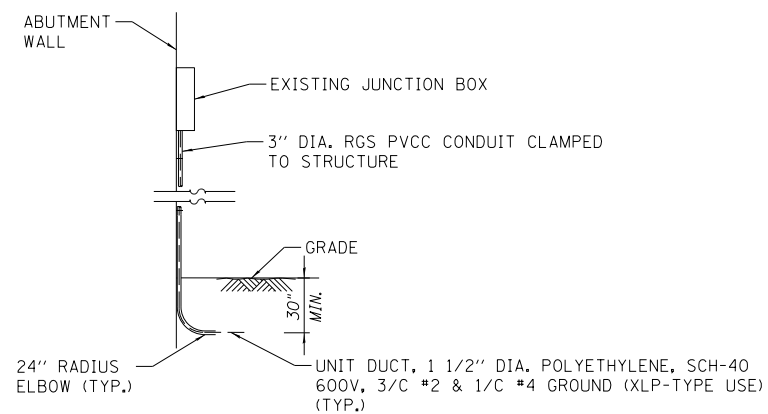




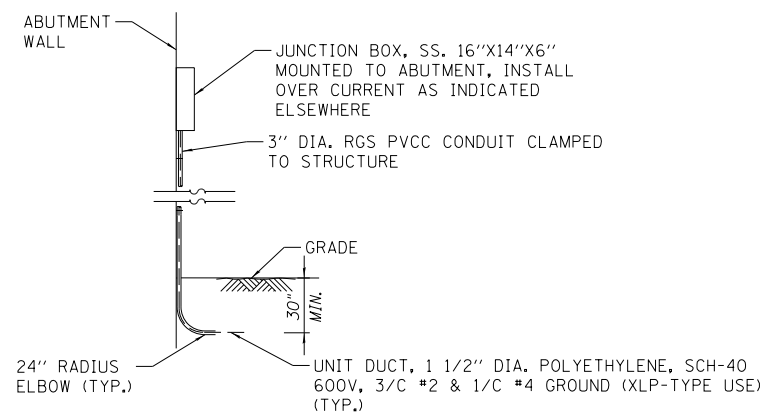
**DETAIL A – EAST RIVER ROAD  
(EAST FACE OF NORTH ABUTMENT)**  
N.T.S.



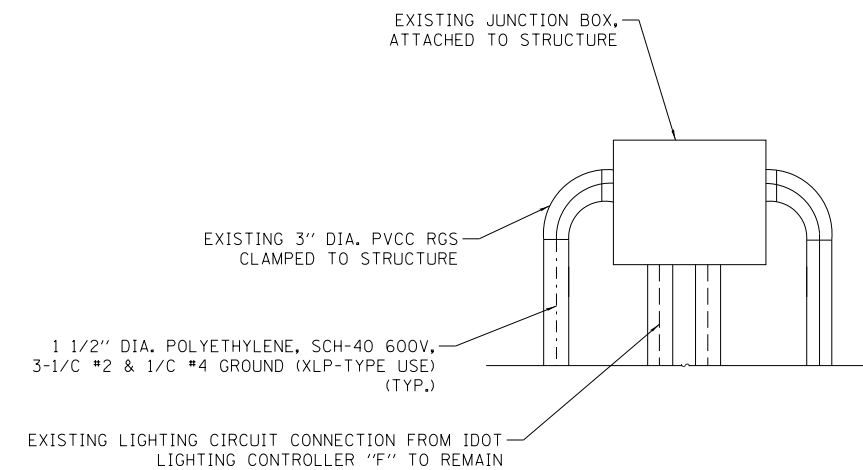
**DETAIL B EAST RIVER ROAD  
(WEST FACE OF NORTH ABUTMENT)**  
N.T.S.



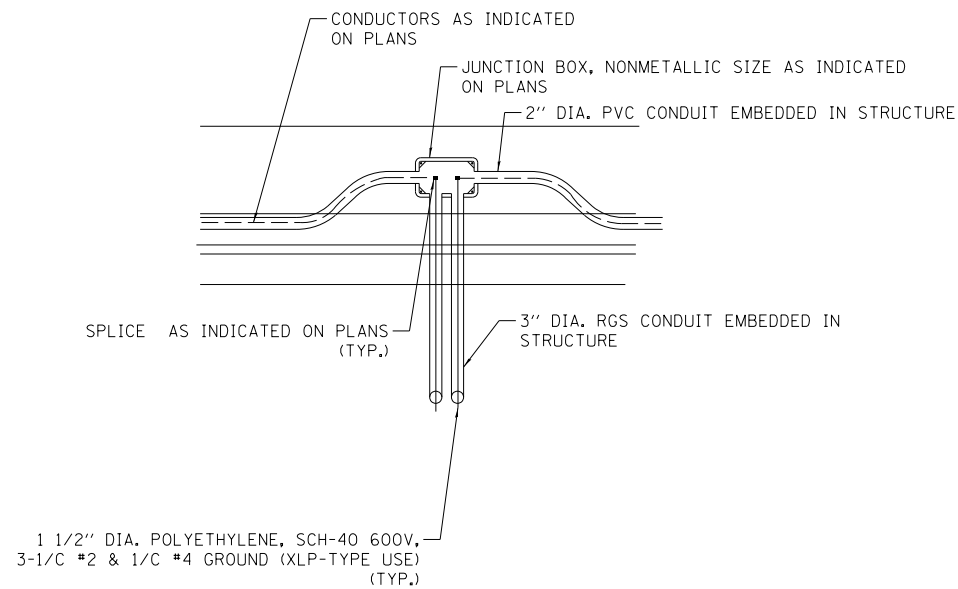
**DETAIL C- CANFIELD ROAD/ORIOLE AVE.  
SIDE VIEW – TEMPORARY CONNECTION**  
N.T.S.



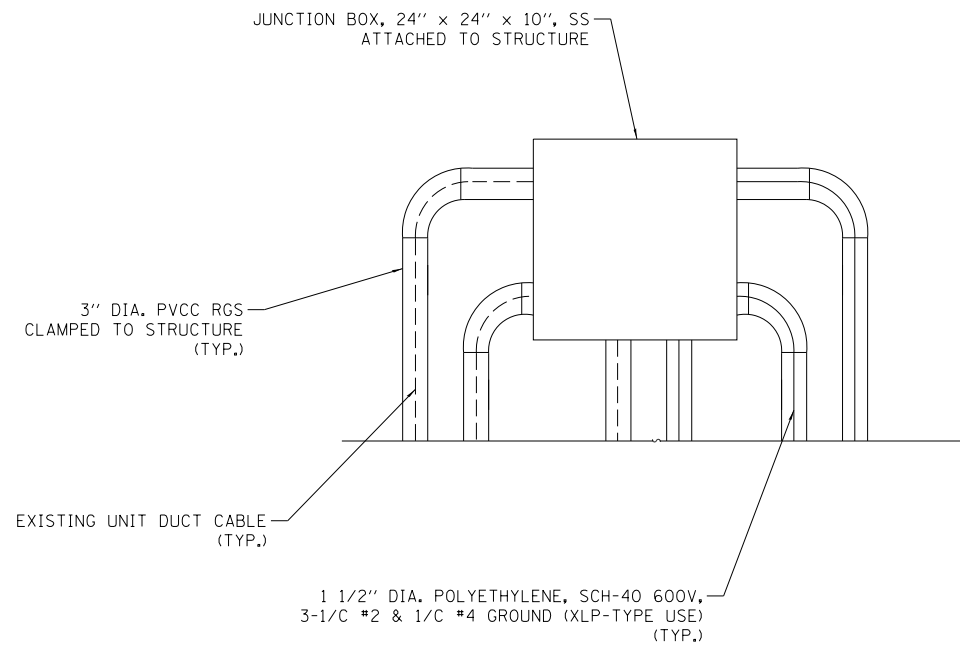
**DETAIL D- CANFIELD ROAD/ORIOLE AVE.  
SIDE VIEW – PROPOSED CONNECTION**  
N.T.S.



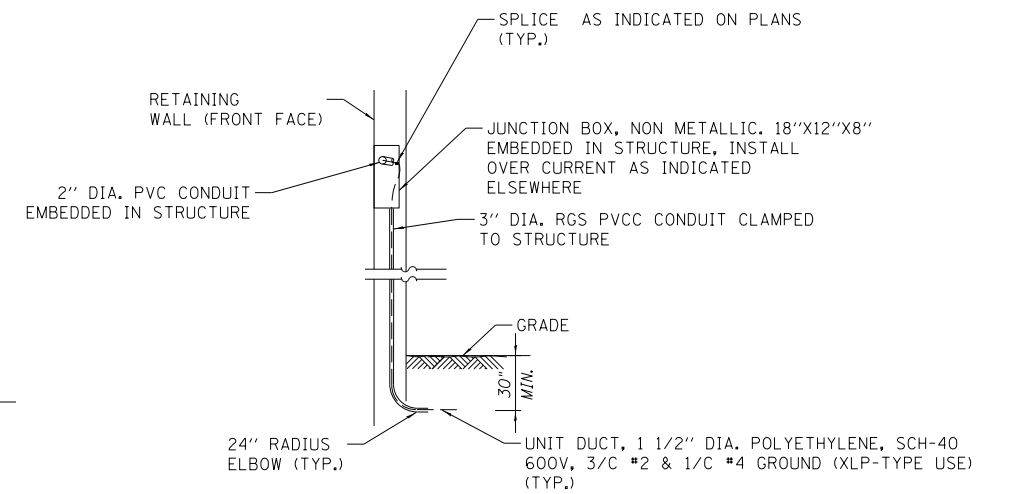
**DETAIL E  
ORIOLE AVE/90WB EXISTING  
JUNCTION BOX CONNECTION**  
N.T.S.



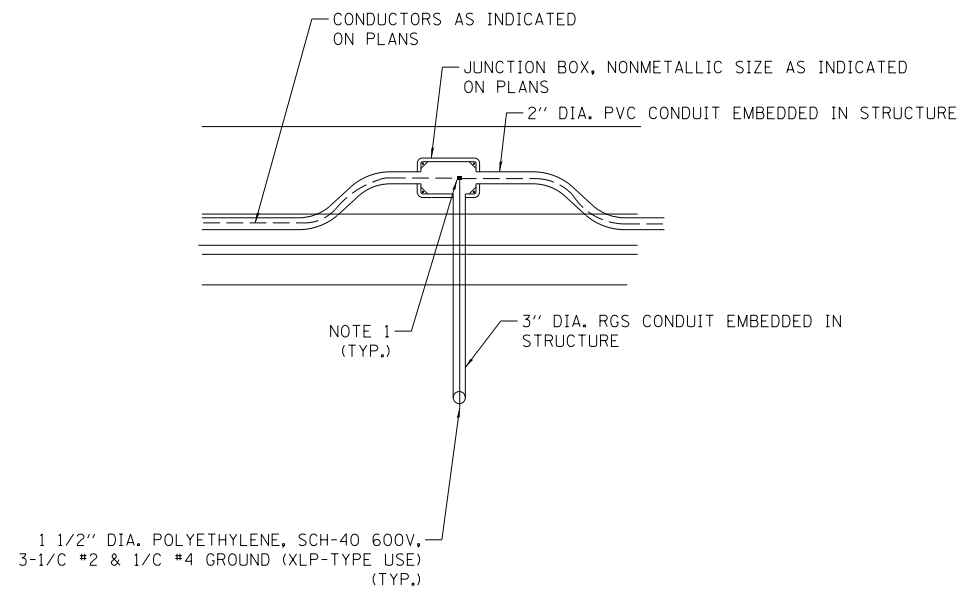
**DETAIL A**  
**JUNCTION BOX EMBEDDED IN BARRIER WALL**  
**CUMBERLAND AVENUE**  
 N.T.S.



**DETAIL B**  
**CUMBERLAND AVE1-90WB PROPOSED**  
**JUNCTION BOX CONNECTION**  
 N.T.S.



**DETAIL C- RETAINING WALL/W. OF CANFIELD AVE.**  
**SIDE VIEW - PROPOSED CONNECTION**  
 N.T.S.



**DETAIL D**  
**JUNCTION BOX EMBEDDED IN BARRIER WALL**  
**TYPICAL**  
 N.T.S.

**NOTES:**

1. MAKE SPLICE FROM PROPOSED UNIT DUCT CABLE TO PROPOSED ELECTRIC CABLE IN EMBEDDED JUNCTION BOX FOR LIGHTING CIRCUITS (CIRCUITS AS SHOWN ON PLANS). ALL FUSE KITS AND OVERCURRENT PROTECTION SHALL BE INCLUDED IN THE UNIT DUCT, 1 1/2" DIA. POLYTHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), PAY ITEM.



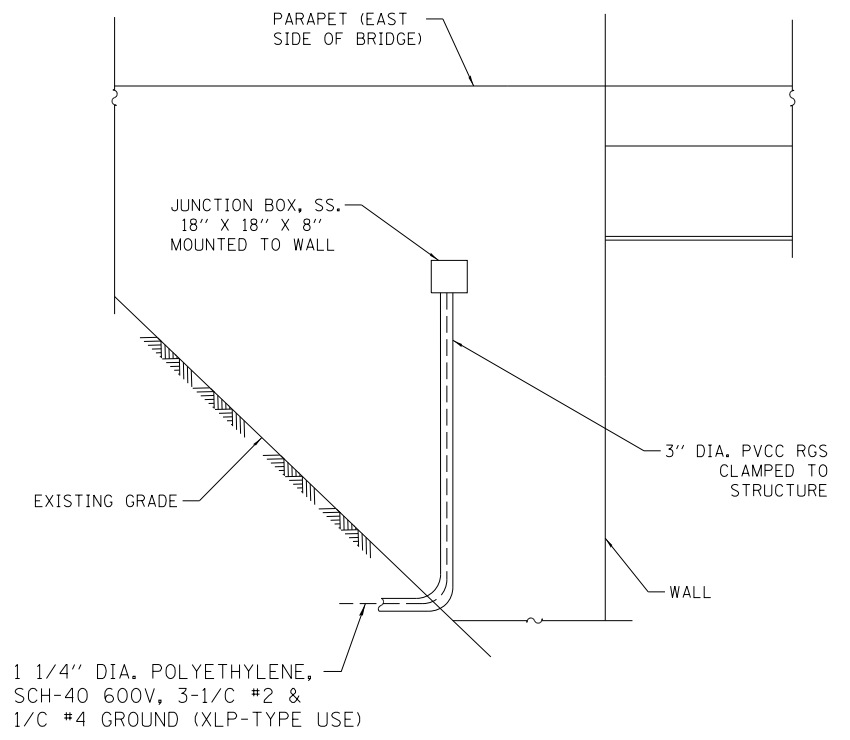
USER NAME = jbiakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000 / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

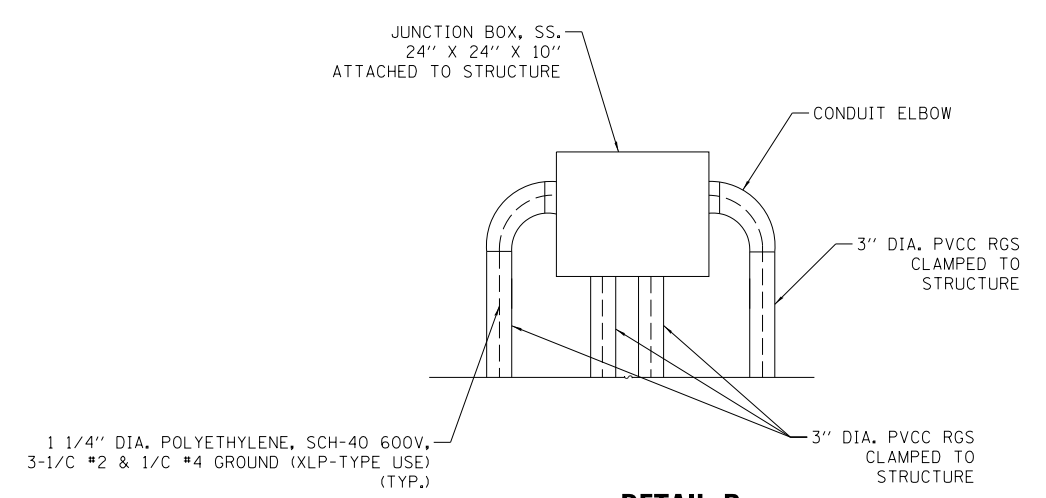
IDOT ROADWAY LIGHTING  
 CONNECTION DETAILS

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	358
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



**DETAIL C – PROPOSED JUNCTION BOX CONNECTION**  
**(CUMBERLAND AVENUE)**  
 N.T.S.



**DETAIL B**  
**ORIOLE AVE/90WB PROPOSED JUNCTION BOX CONNECTION**  
 N.T.S.



USER NAME = jblakley	DESIGNED KFA	REVISED -
	DRAWN KFA	REVISED -
PLOT SCALE = 1:8000 / in.	CHECKED MCD	REVISED -
PLOT DATE = 6/19/2017	DATE 06/28/2017	REVISED -

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

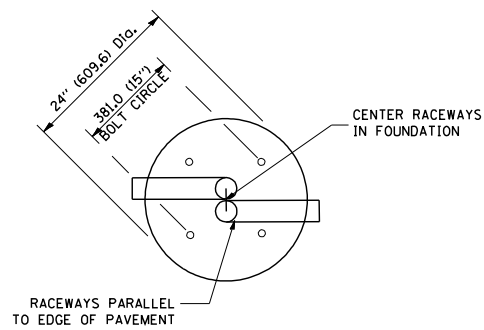
**IDOT ROADWAY LIGHTING**  
**CONNECTION DETAILS**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

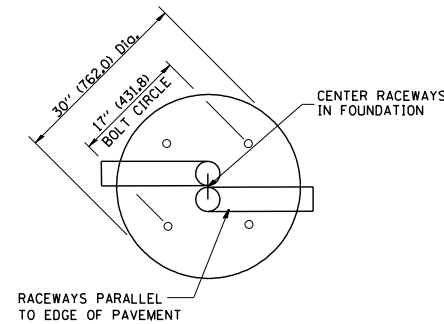
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	359
			CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT				

**LIGHT POLE FOUNDATION DEPTH TABLE**  
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY O <sub>u</sub> = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY O <sub>u</sub> = 0.75 TON/SO.FT	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY O <sub>u</sub> = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



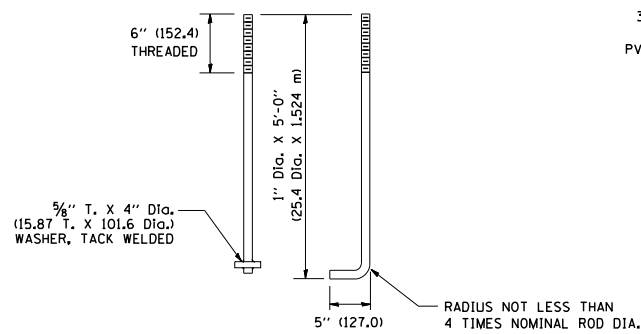
**TOP VIEW**



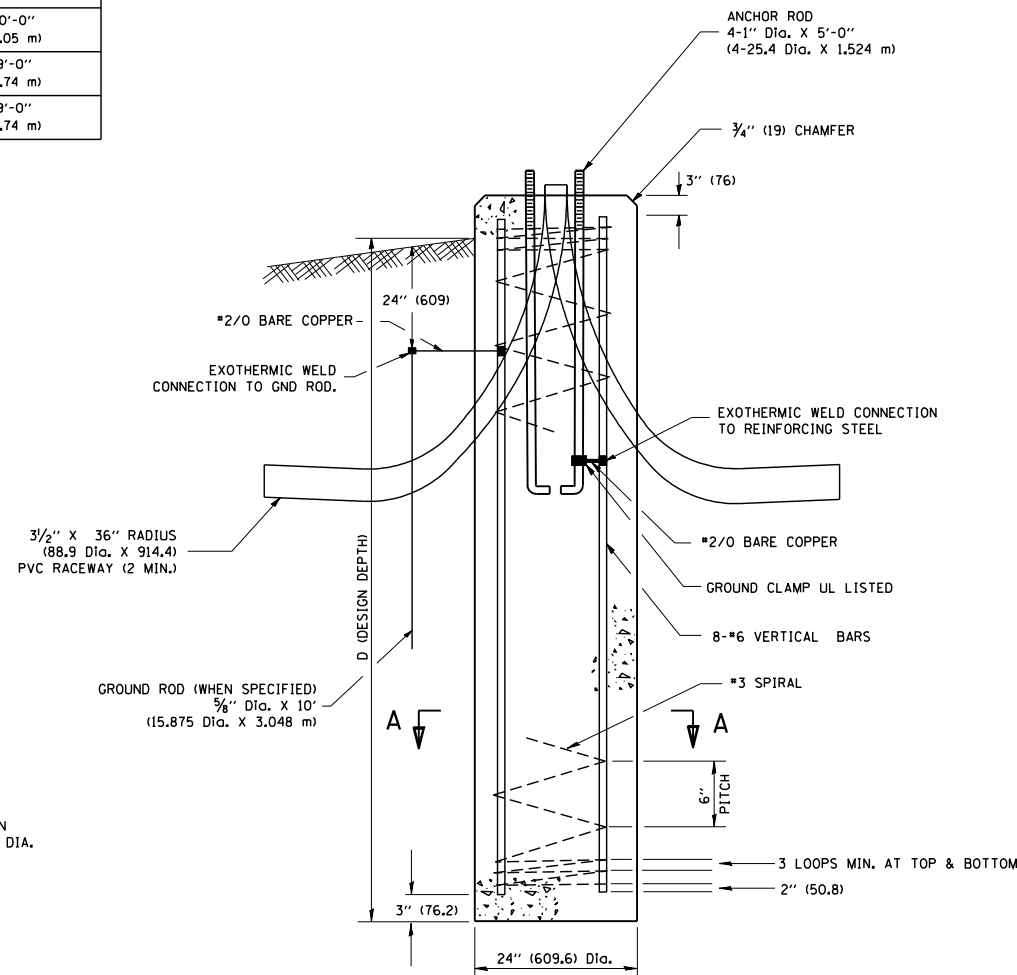
**TOP VIEW**

**NOTES**

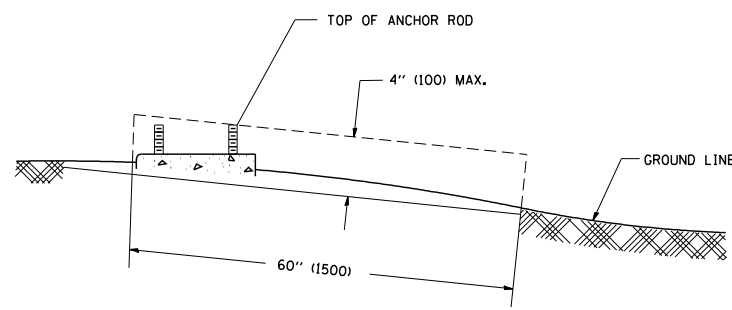
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



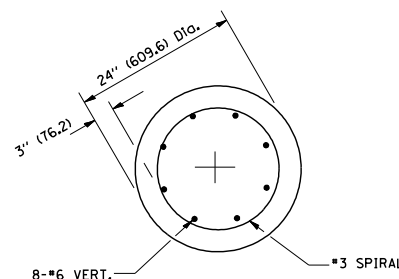
**ANCHOR ROD DETAIL**



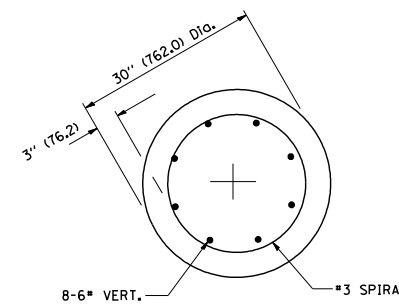
**FOUNDATION DETAIL**



**FOUNDATION EXTENSION DETAIL**



**SECTION A-A**



**SECTION A-A**

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		CHECKED -	REVISED -
		DATE -	REVISED -

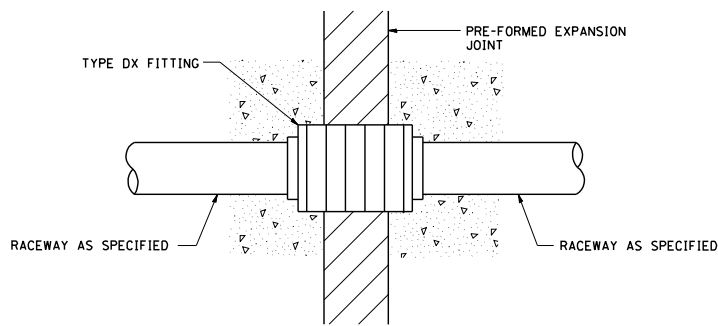
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHT POLE FOUNDATION**  
**40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE**  
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

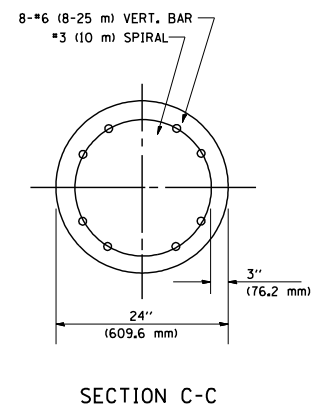
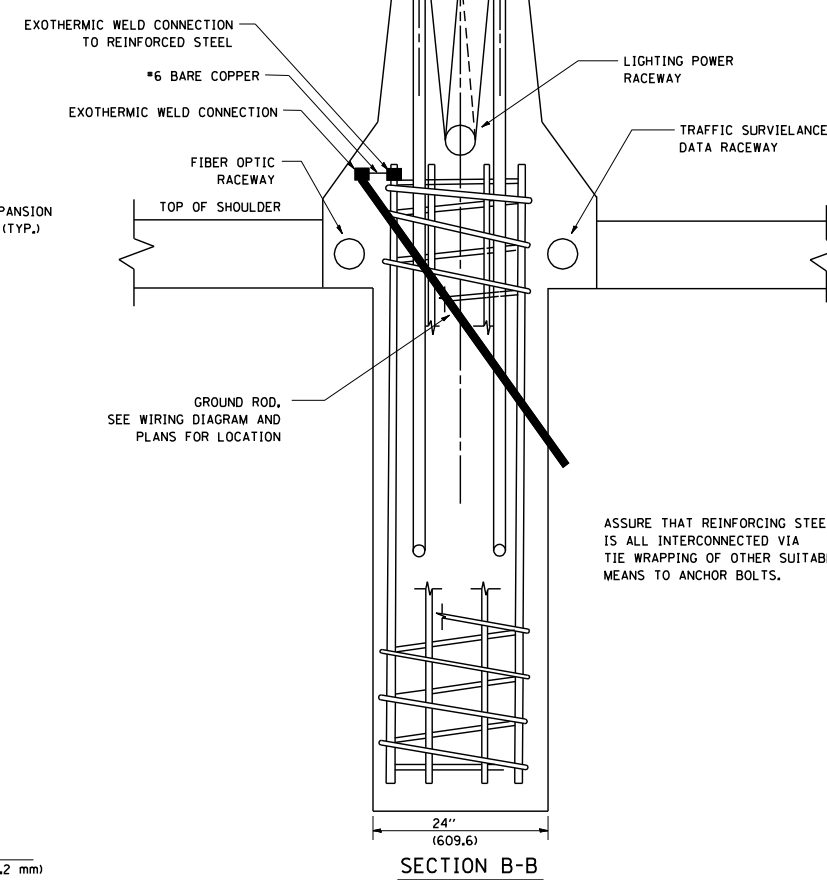
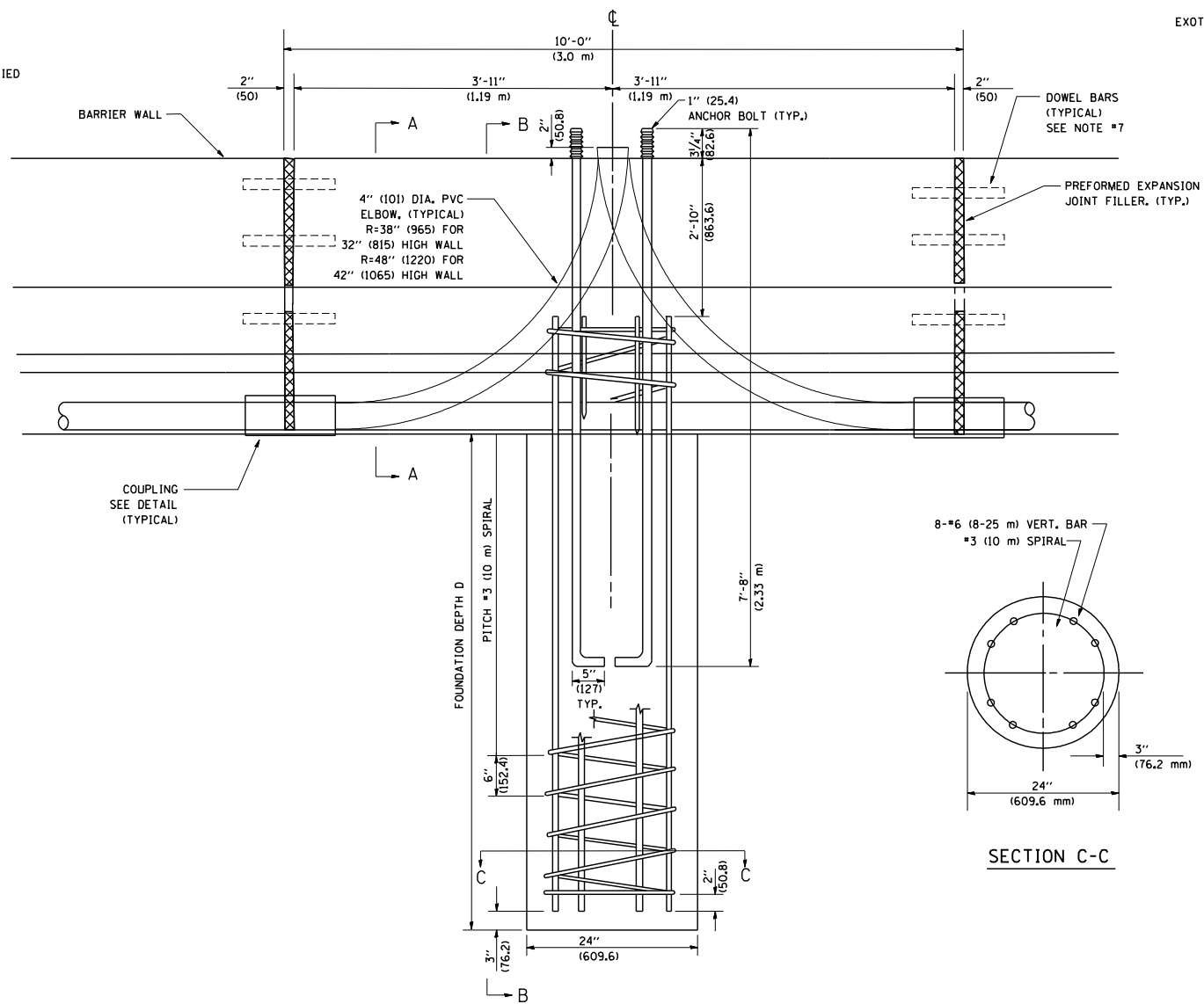
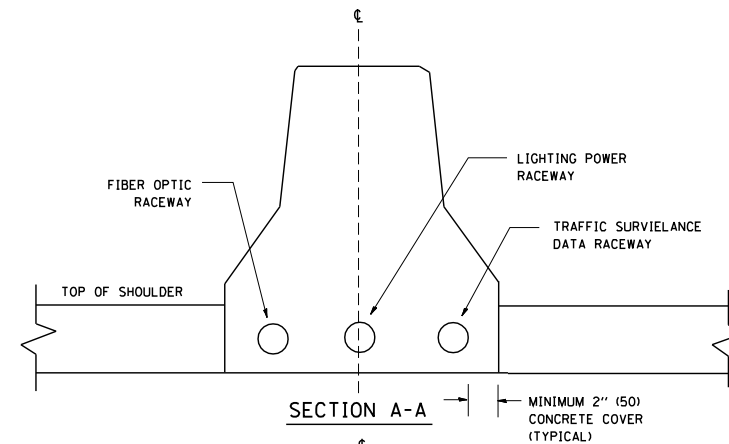
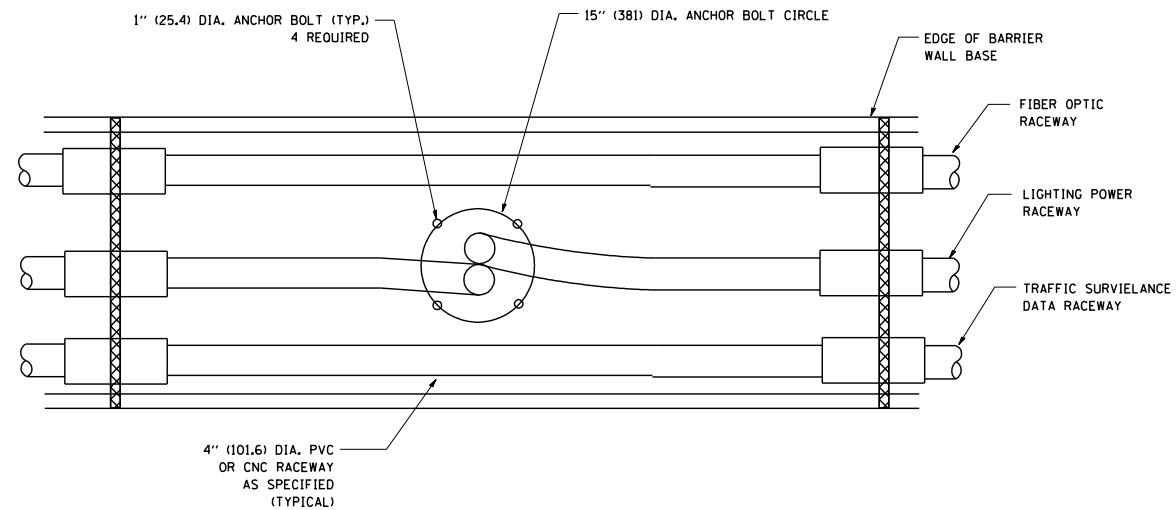
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	BE-301		734	360
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORMS.
3. THE CONTRACTOR AT HIS OPTION MAY SUBSTITUTE #4 (15 m) TIES AT 12" (304.8 m) CTRS. FOR THE #3 (3 m) SPIRAL, TACKWELDED TYPE BOLT MAY BE SUBSTITUTED FOR THE HOOK TYPE BOLT.
4. COLD BENDING OF THE HOOK BOLT SHALL NOT BE ALLOWED.
5. EXCAVATION FOR THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24 INCHES (609.6 m) IN DIAMETER.
6. THE ENGINEER SHALL DETERMINE THE TYPE OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE USING THE DOMINANT CHARACTERISTIC OF THE SOIL ENCOUNTERED.
7. BARRIER WALL EXPANSION AND CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 637001-02 AND 637006 AS APPLICABLE.



CONDUIT DEFLECTION FITTING DETAIL



FOUNDATION DEPTH

TYPE OF SOIL	FOUND FEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	SPIRAL
ROCK OR SOLIDIFIED SLAG	5'-0" (1.52 m)	NONE	NONE
DENSE SAND	7'-9" (2.36 m)	8-#6 x 9'-0" (8-20 m x 2.74 m)	#3 x 90' (3 m x 27.43 m)
MEDIUM SAND	8'-3" (2.51 m)	8-#6 x 9'-5" (8-20 m x 2.87 m)	#3 x 94' (3 m x 28.65 m)
LOOSE SAND	9'-0" (2.74 m)	8-#6 x 10'-2" (8-20 m x 3.09 m)	#3 x 100' (3 m x 30.48 m)
STIFF CLAY	7'-0" (2.13 m)	8-#6 x 10'-8" (8-20 m x 2.48 m)	#3 x 80' (3 m x 24.38 m)
MEDIUM CLAY	9'-6" (2.89 m)	8-#6 x 10'-8" (8-20 m x 3.25 m)	#3 x 104' (3 m x 31.69 m)
SOFT CLAY	13'-0" (3.96 m)	8-#6 x 14'-2" (8-20 m x 4.32 m)	#3 x 144' (3 m x 43.89 m)

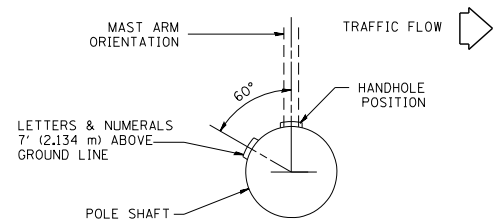
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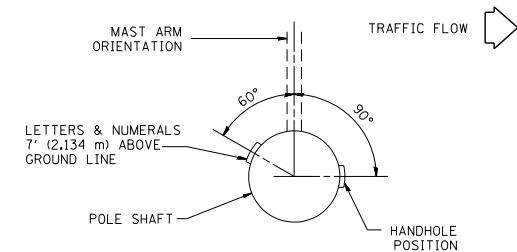
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

24" (609.6 mm) DIA. LIGHT POLE FOUNDATION INTEGRAL WITH DOUBLE FACE BARRIER WALL			
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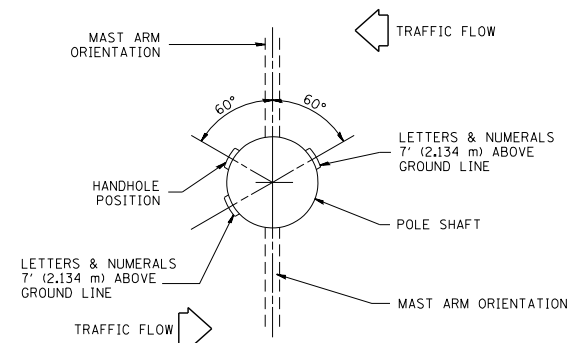
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FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	CONTRACT NO.	60Y39



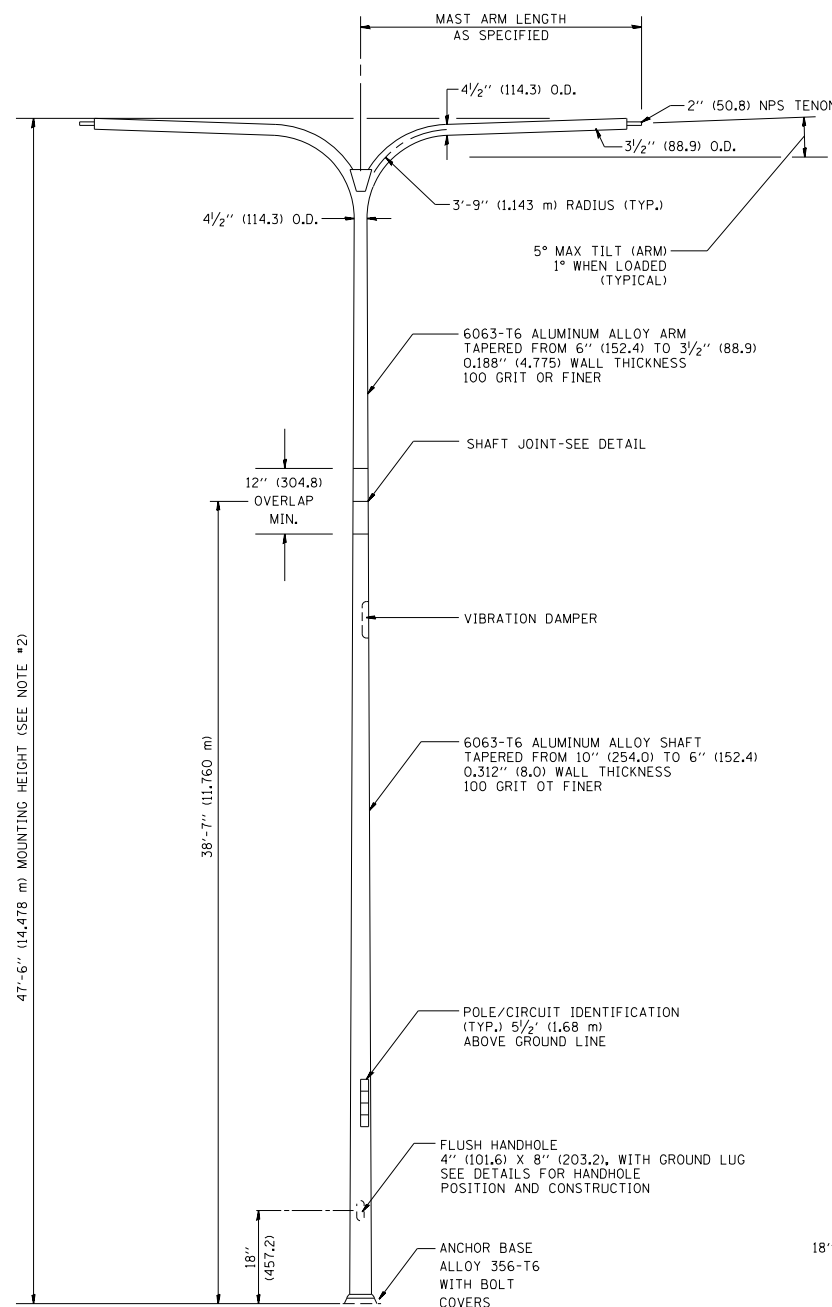
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



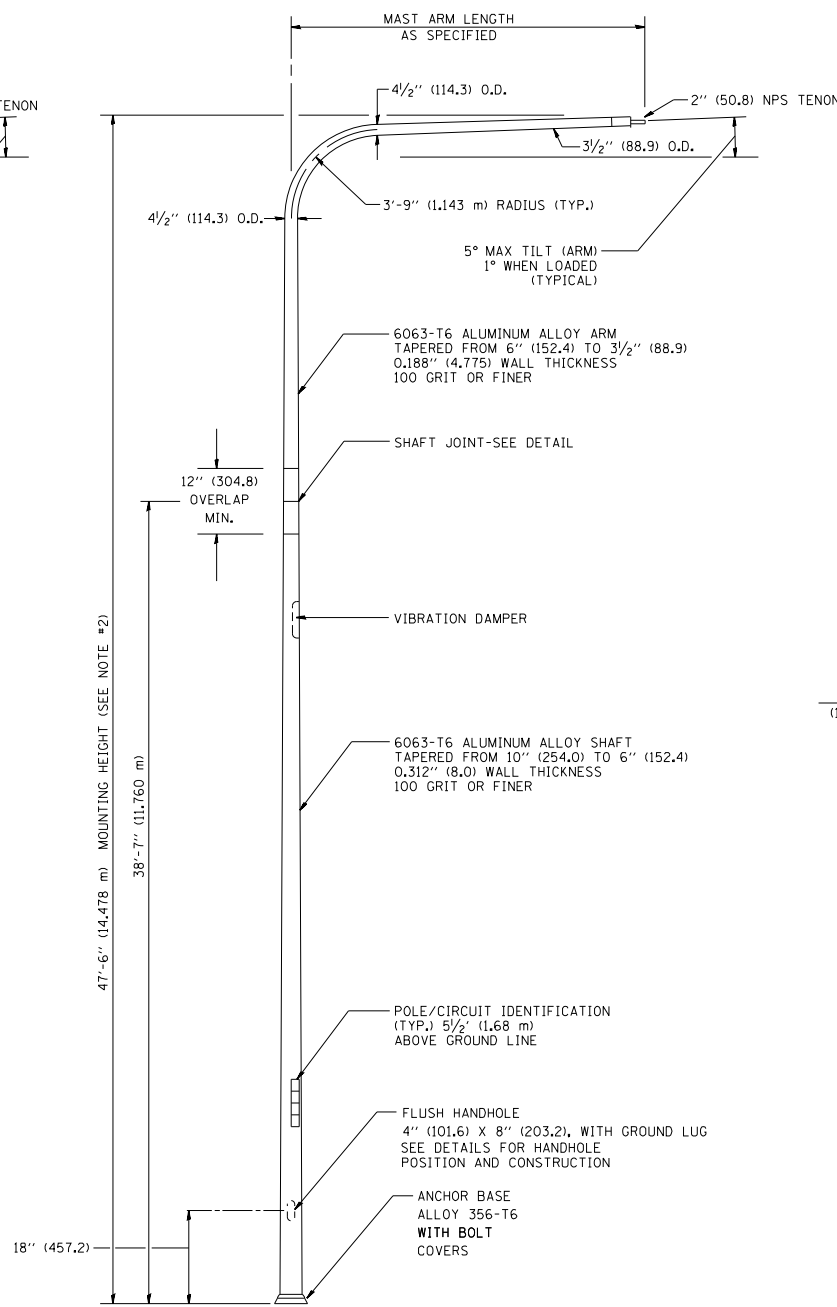
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



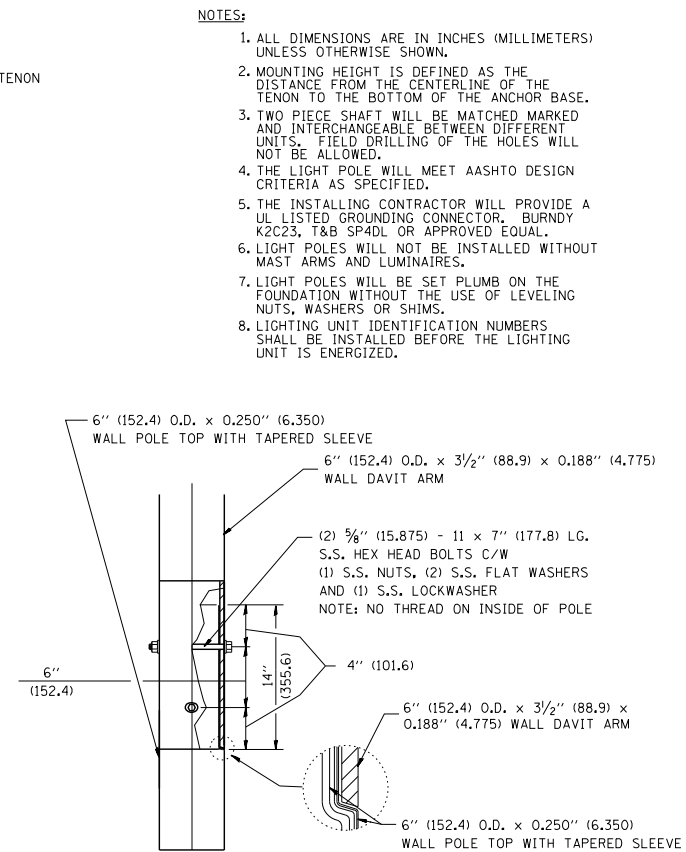
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



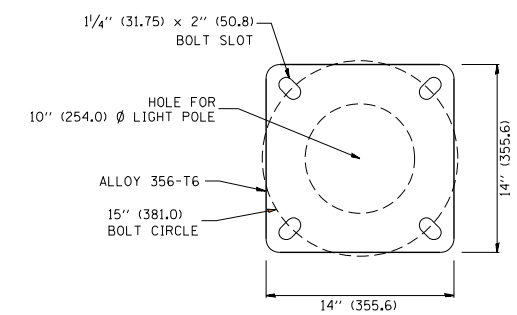
TWIN ARM POLE



SINGLE ARM POLE

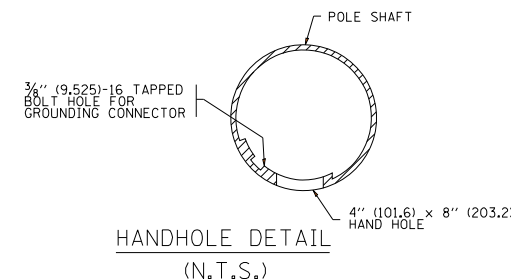


DAVIT ARM CONNECTION  
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL

(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



HANDHOLE DETAIL  
(N.T.S.)

NOTES:

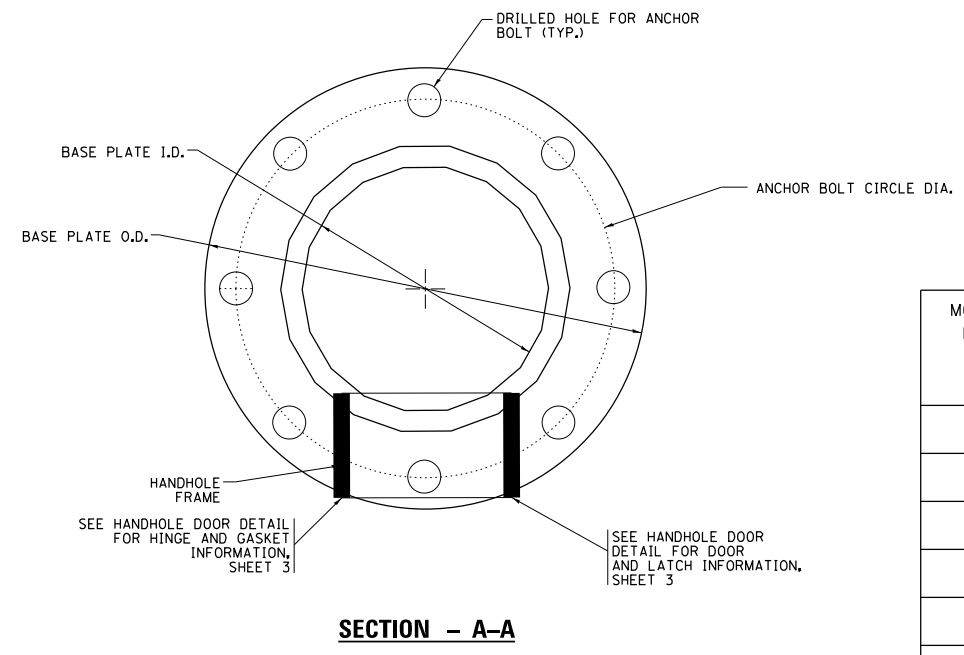
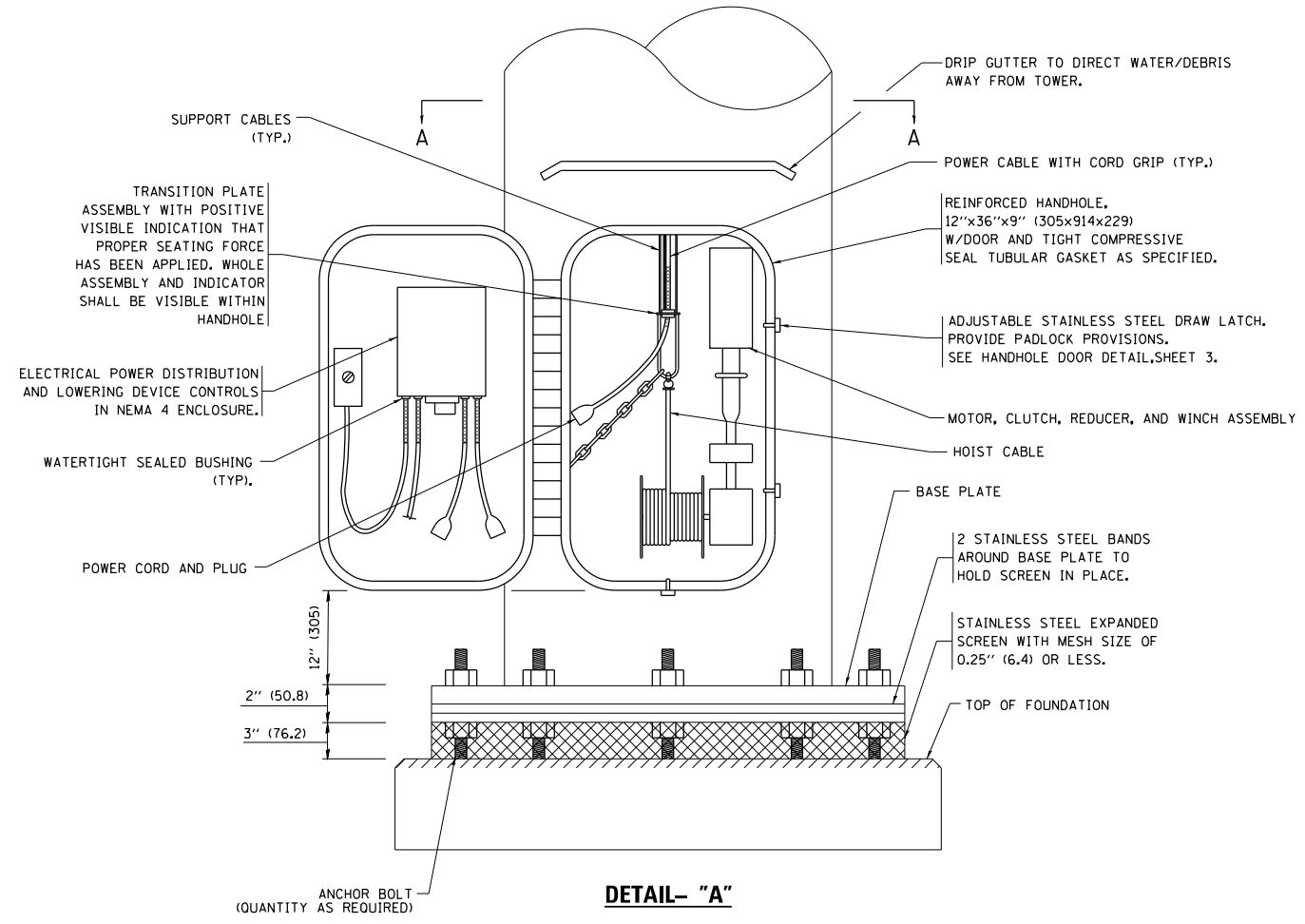
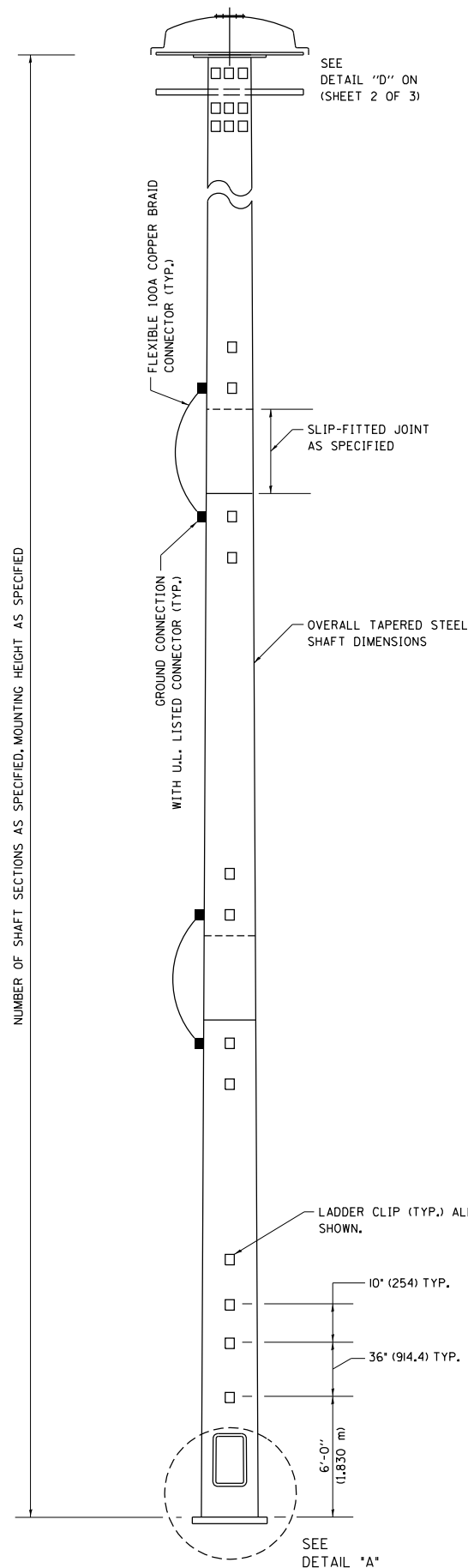
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT 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 SP4DL 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.

FILE NAME =	USER NAME = leyso	DESIGNED -	REVISED - D. DREW 05-07-92
ct:\pwwork\pwwork\leyso\d0108315\be410.dgn		DRAWN - LEY	REVISED - R. TOMSONS 09-06-00
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	PLOT DATE = 4/4/2013	DATE -	REVISED - R. TOMSONS 01-18-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DAVIT LIGHT POLE			
47'-6" (14.478 m) MOUNTING HEIGHT			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

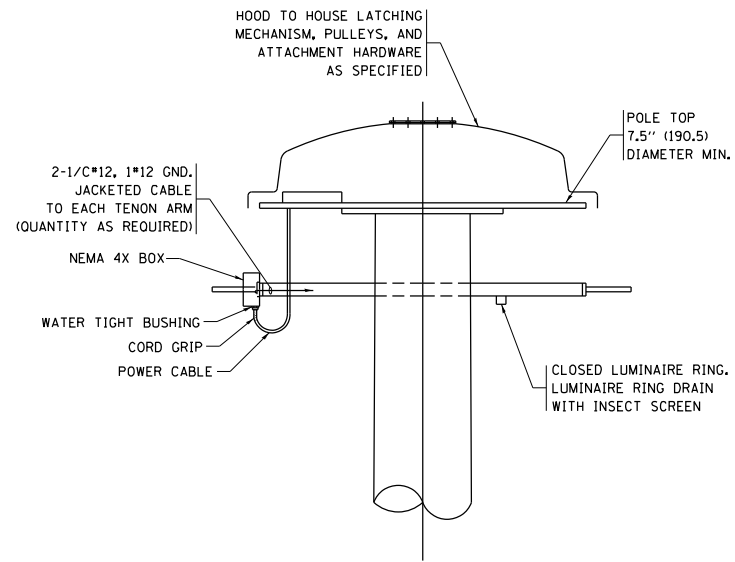
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			734	362
BE-410		CONTRACT NO.	60Y39	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



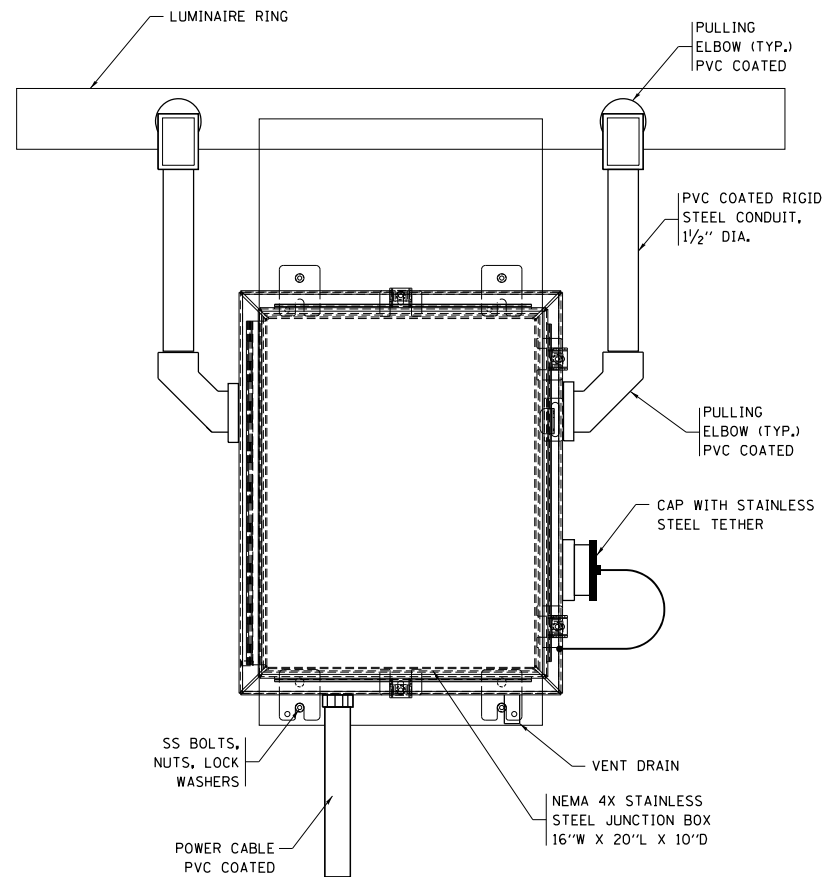
- NOTES:**
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  - THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I. A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ.) RESPECTIVELY.
  - ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
  - THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
  - THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS, CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
  - A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
  - ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
  - THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123), THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL
  - ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
  - THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
  - PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
  - COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

**LIGHT TOWER DIMENSIONS**

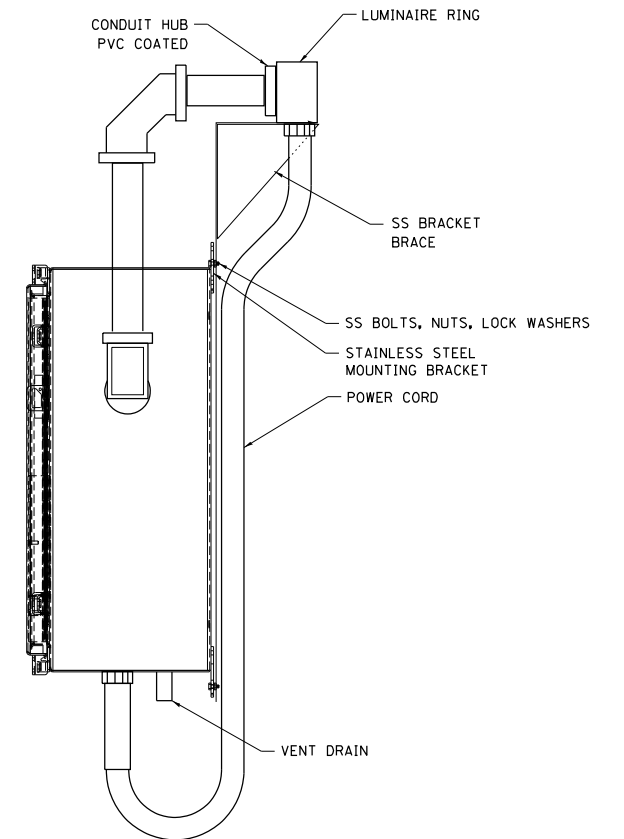
MOUNTING HEIGHT (FEET)	MAXIMUM NUMBER OF SECTIONS	MINIMUM NUMBER OF ANCHOR RODS	MINIMUM TOWER TOP DIAMETER (INCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MINIMUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD CIRCLE (INCHES)
100	3	8	7.5	24	1.5	30
110	3	8	7.5	24	1.5	30
120	3	8	7.5	26	1.75	36
130	4	8	7.5	28	1.75	36
140	4	8	7.5	28	1.75	36
150	4	8	7.5	30	2.25	38
160	4	8	7.5	32	2.25	38



**DETAIL-"D"**

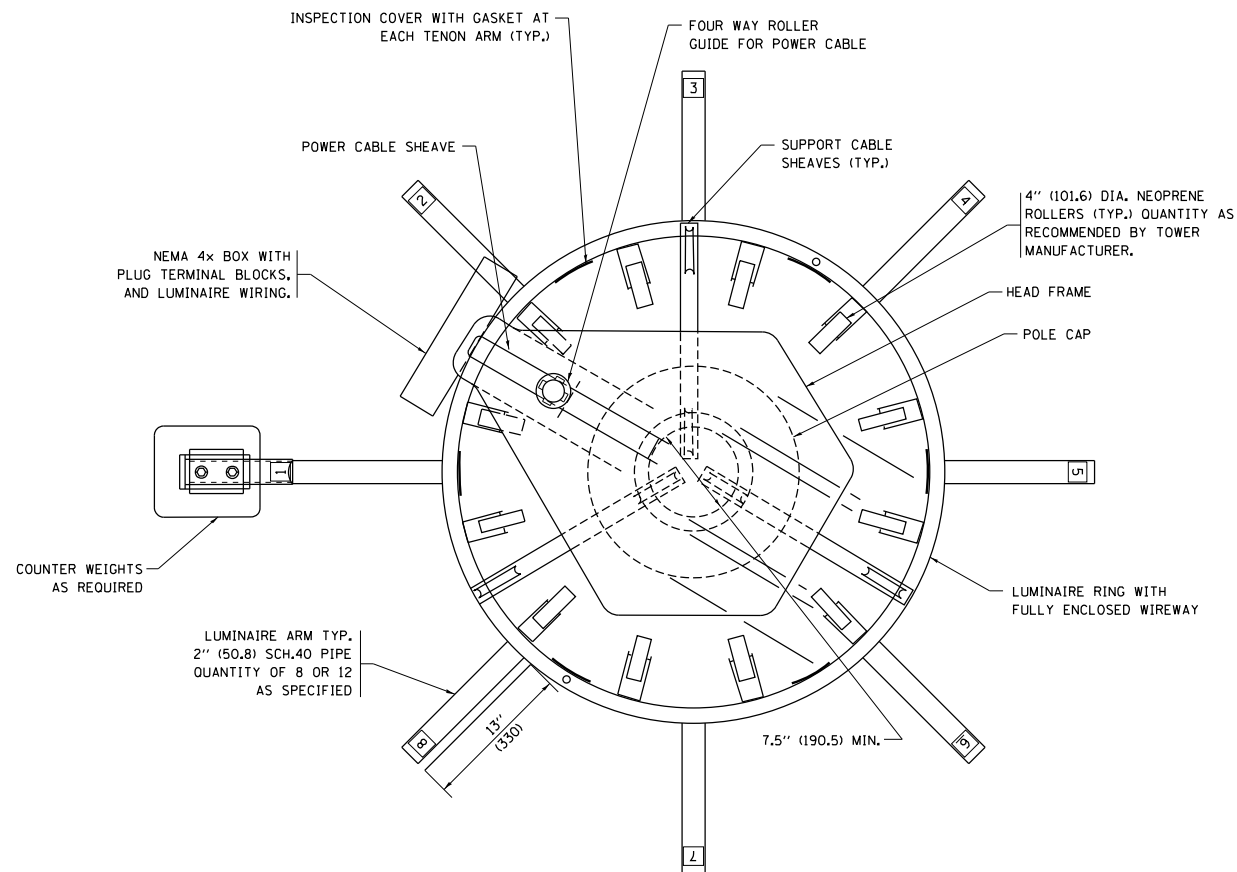


**FRONT VIEW  
N.T.S.**



**SIDE VIEW  
N.T.S.**

**LUMINAIRE RING TERMINAL BOX**



**NOTES:**

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS. CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.

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Default	PLOT SCALE = 50.0000' / in.	DATE -	REVISED - R. TOMSONS 04-29-16
	PLOT DATE = 7/27/2016		REVISED - R. TOMSONS 07-26-16

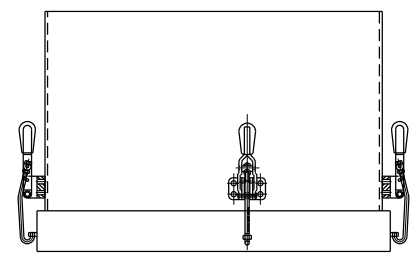
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HIGH MAST LIGHT TOWER  
100 FT TO 160 FT (30 m TO 49 m)**

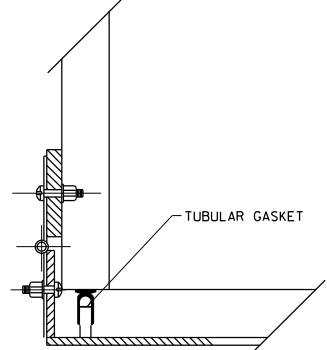
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT		CONTRACT NO.	60Y39	

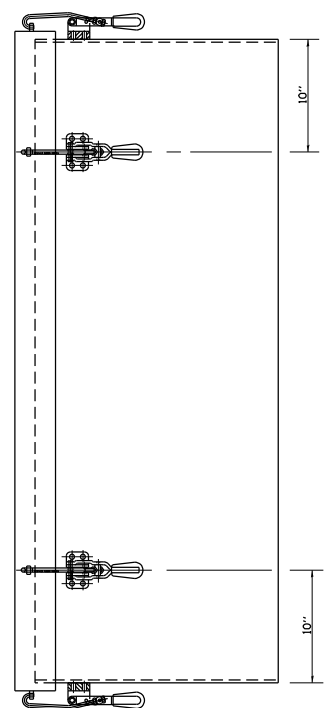




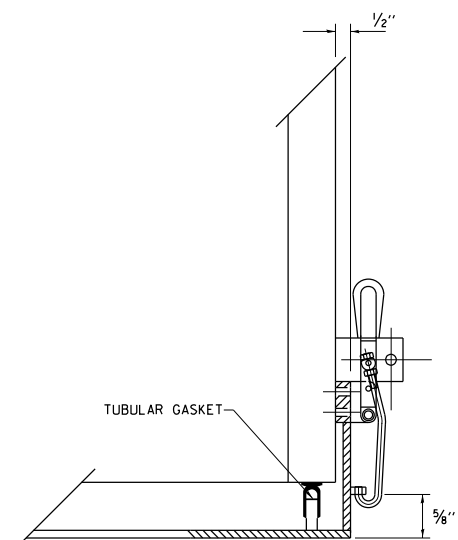
TOP VIEW



HINGE DETAIL

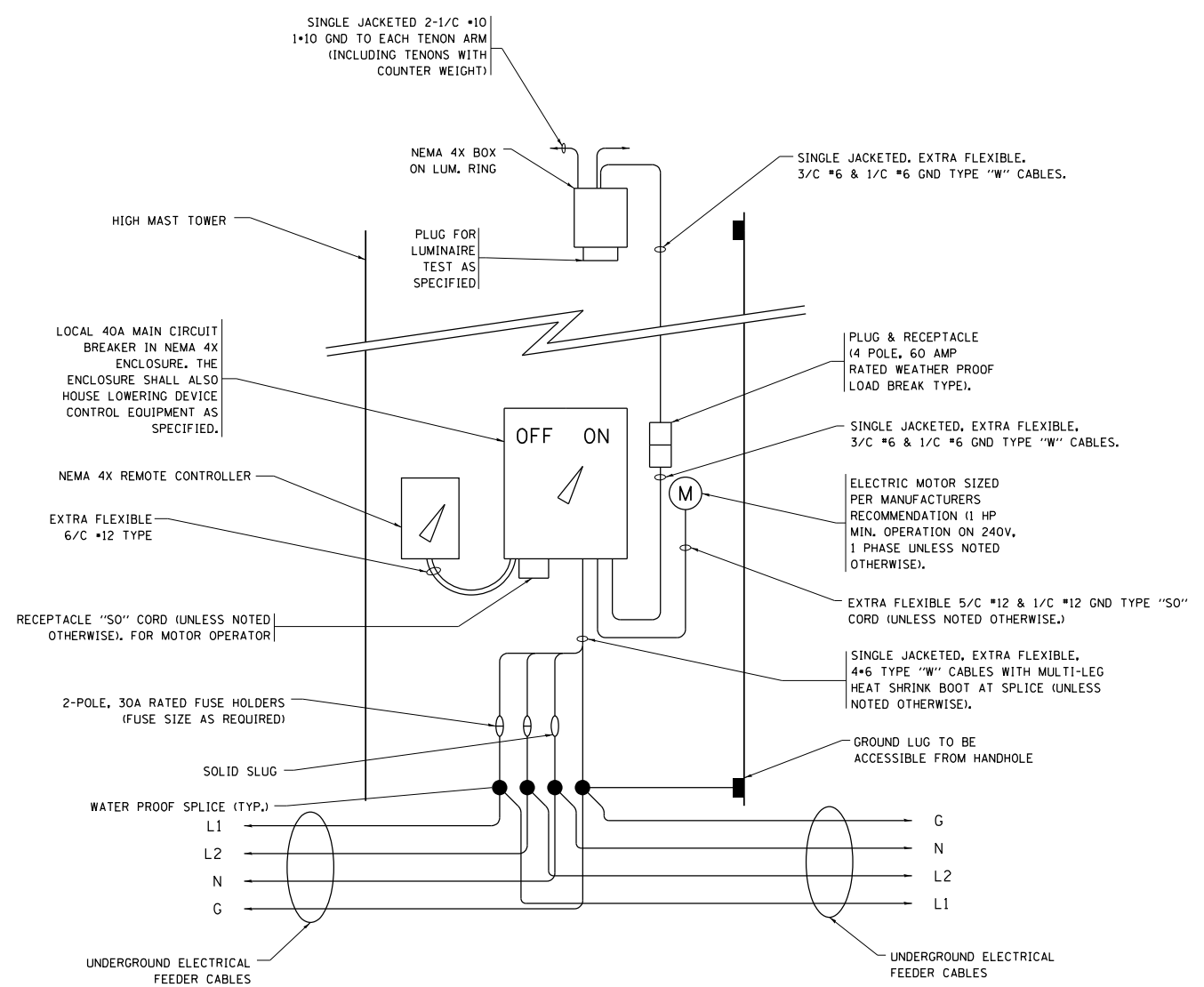


SIDE VIEW

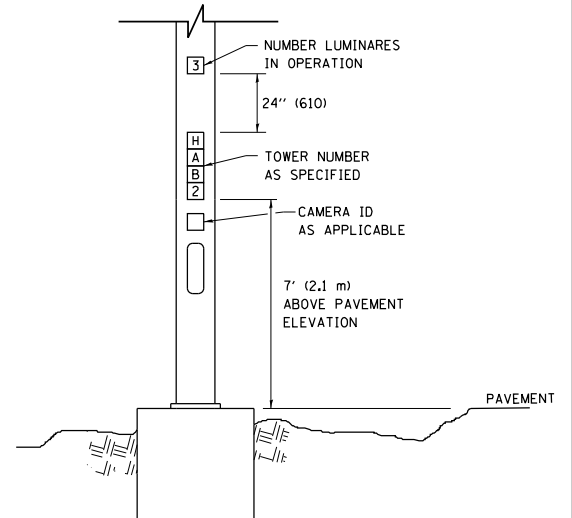


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10
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Default	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. TOMSONS 04-29-16
	PLOT DATE = 7/27/2016	DATE -	REVISED - R. TOMSONS 07-26-16

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER  
100 FT TO 160 FT (30 m TO 49 m)

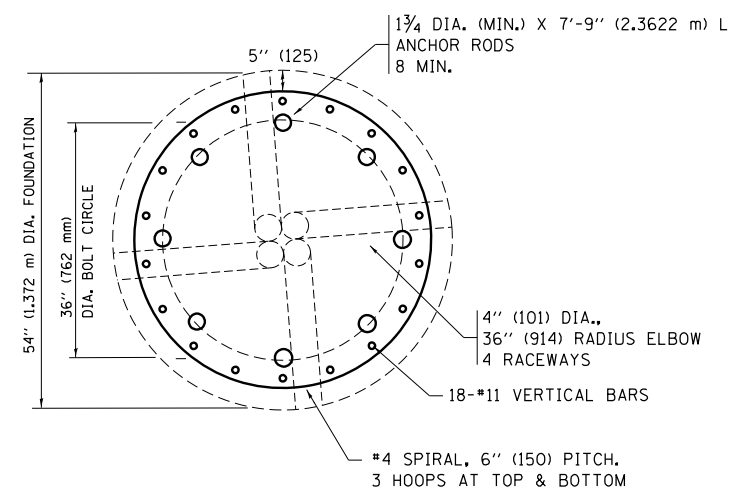
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-500		734	365
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

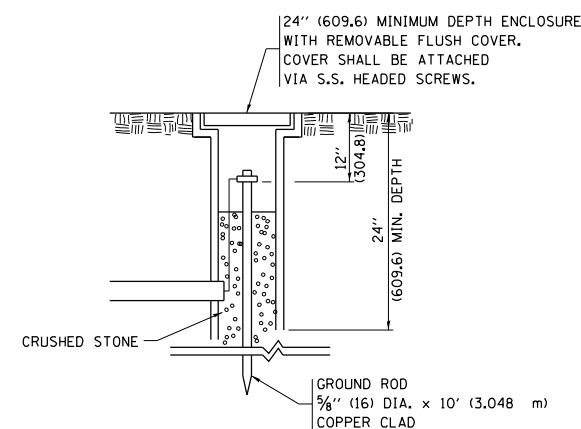
## DESIGN NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

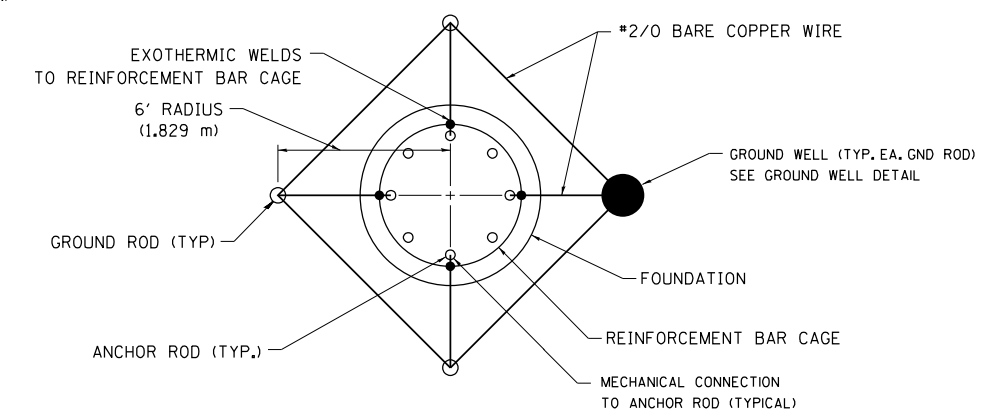
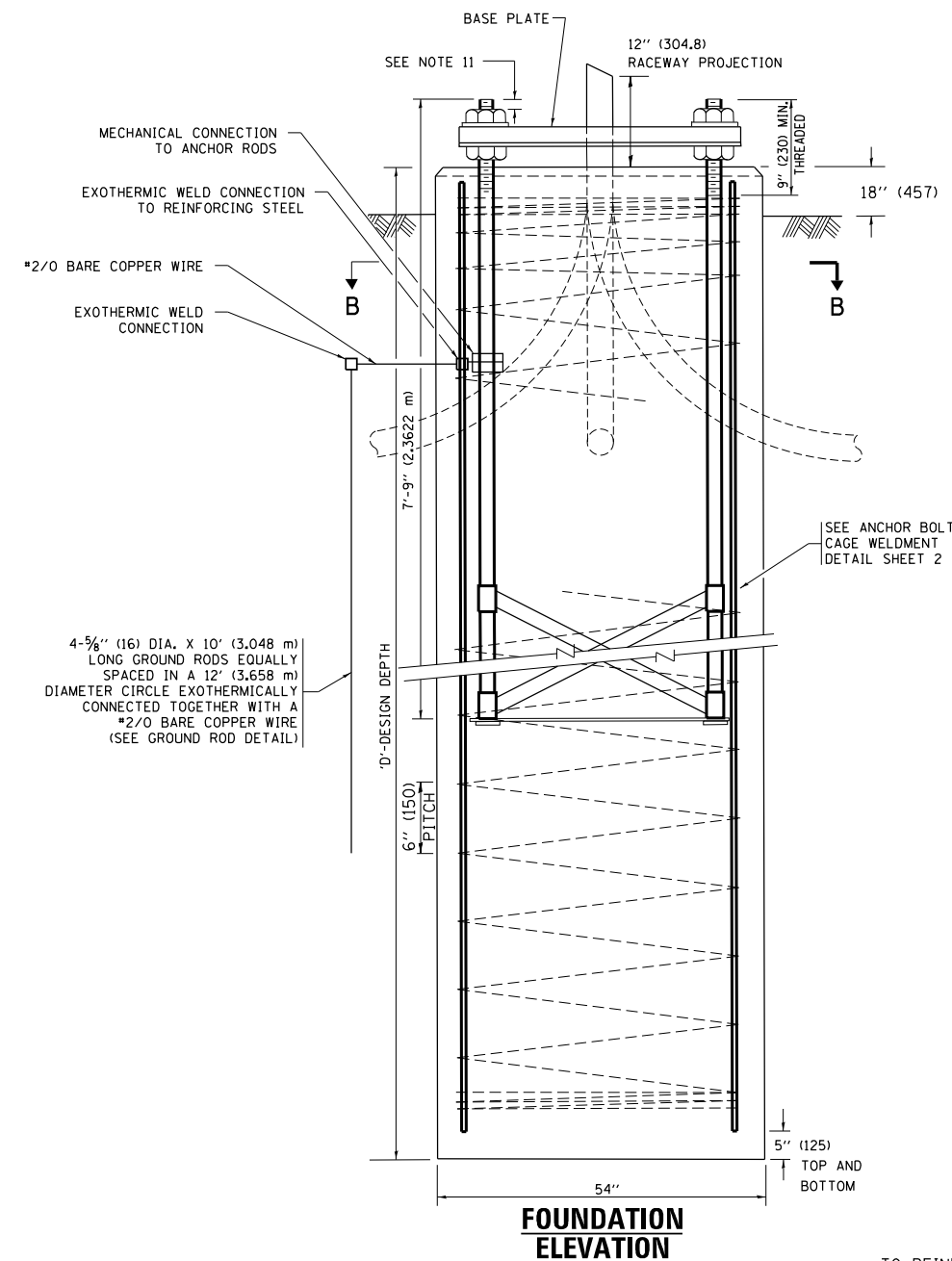
SOIL CONSISTENCY		SHAFT LENGTH (D) TABLE			
		AVERAGE STRENGTH Q <sub>u</sub> In tsf (Q <sub>u</sub> In kPa)	LIGHT TOWER MOUNTING HEIGHT		
			120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
SOFT		<0.5 (<50)	25'-0" (7.6 m)	26'-6" (8.0 m)	27'-6" (8.3 m)
	MEDIUM	0.5 TO 1 (50 to 100)	20'-6" (6.2 m)	21'-6" (6.4 m)	22'-0" (6.7 m)
COHESIVE	STIFF	1 TO 2 (100 TO 200)	17'-6" (5.2 m)	18'-0" (5.4 m)	18'-6" (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	15'-0" (4.5 m)	15'-6" (4.6 m)	16'-0" (4.7 m)
	HARD	>4 (>400)	13'-6" (4.0 m)	13'-6" (4.1 m)	14'-0" (4.2 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)			
	VERY LOOSE	<5 (<5)	19'-0" (6.3 m)	20'-0" (6.0 m)	20'-6" (6.2 m)
	LOOSE	5 TO 10 (5 TO 10)	17'-6" (5.7 m)	18'-0" (5.5 m)	18'-6" (5.6 m)
GRANULAR	MEDIUM	10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0" (5.2 m)	17'-6" (5.3 m)
	DENSE	25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6" (4.9 m)	16'-6" (5.0 m)
	VERY DENSE	>50 (>50)	15'-0" (4.5 m)	15'-6" (4.7 m)	16'-0" (4.8 m)



SECTION-B-B



GROUND WELL DETAIL



GROUND ROD DETAIL

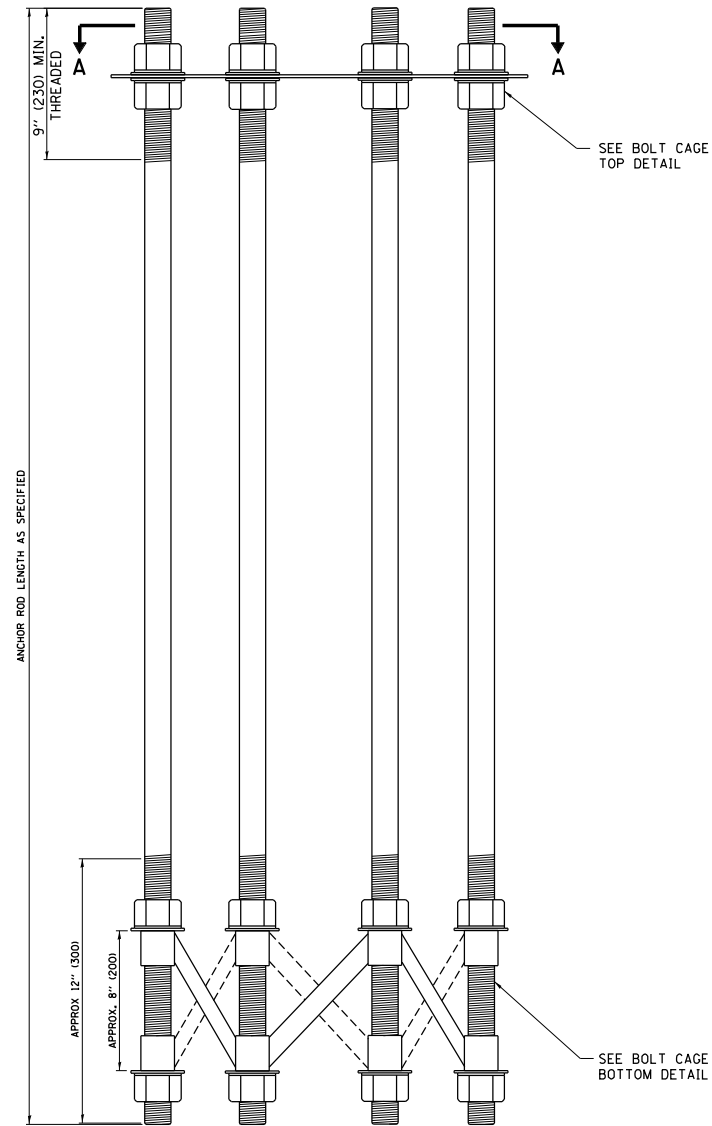
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p:\j\084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\084EBID\CADD\Drawings\be506.dgn		CHECKED -	REVISED - R. TOMSONS 02-27-13
Default	PLOT SCALE = 50.000' / in.	DATE - 03-12-10	REVISED - R. TOMSONS 04-29-16
	PLOT DATE = 4/29/2016		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

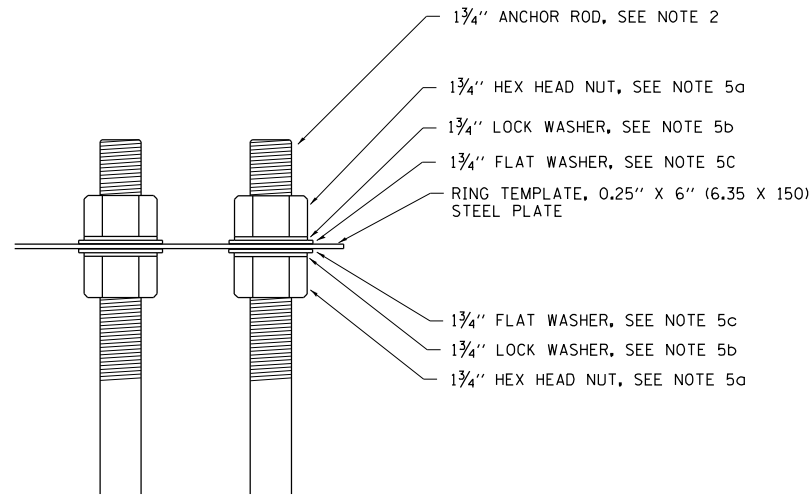
HIGH MAST LIGHT TOWER  
120 FT TO 140 FT FOUNDATION DETAIL

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

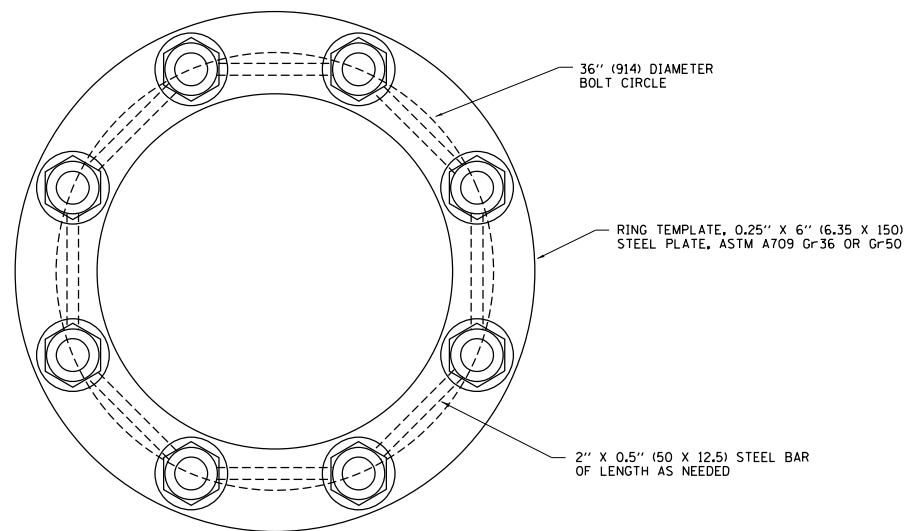
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-506		734	366
ILLINOIS FED. AID PROJECT			CONTRACT NO.	60Y39



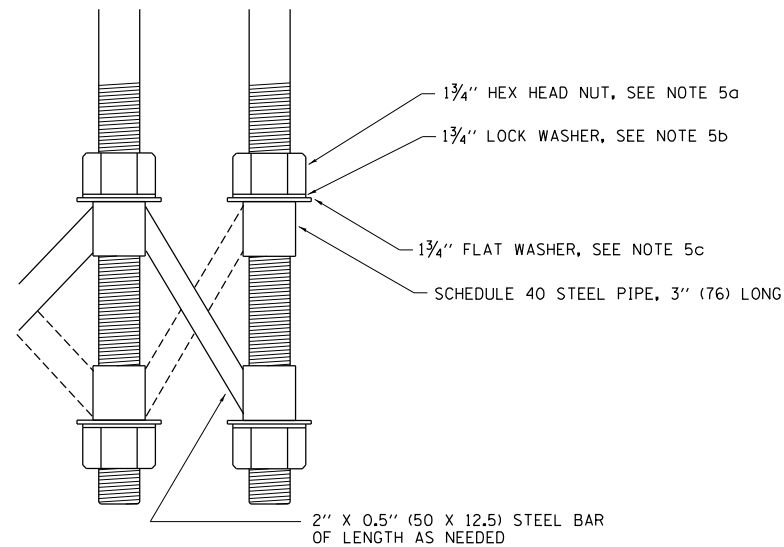
**ANCHOR BOLT CAGE**



**BOLT CAGE TOP**



**SECTION A-A**



**BOLT CAGE BOTTOM**

**NOTES:**

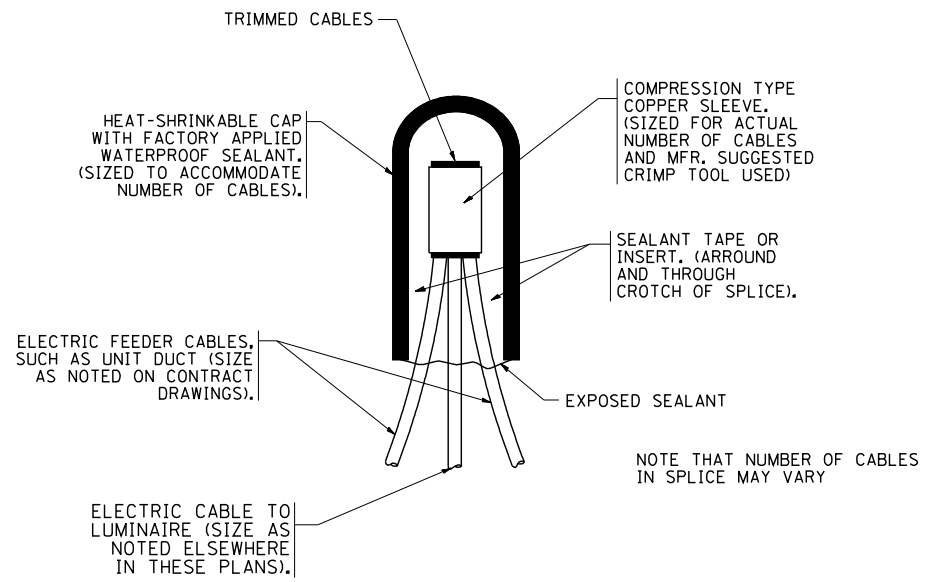
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
  - a) 1.5 (38) HEX HEAD NUTS  
AASHTO M291, GRADE C, C3, D ,DH OR DH3  
HOT DIPPED GALVANIZED AASHTO M 232
  - b) 1.5 (38) HELICAL LOCK WASHERS  
ANSI/ASME B18.21.1  
I.D. 1.504 - 1.524  
O.D. 2.159 MAX.  
WIDTH 0.292 MIN.  
THICKNESS 0.375 MIN.  
HARDNESS 26-45 ROCKWELL C  
HOT DIPPED GALVANIZED AASHTO M232
  - c) 1.5 (38) FLAT WASHERS  
AASHTO M293  
O.D. 2.75  
I.D. 1.56  
THICKNESS 0.16 - 0.25  
HARDNESS 26-45 ROCKWELL C.  
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

FILE NAME =	USER NAME = footemj	DESIGNED - R. TOMSONS 09-02-10	REVISED - R. TOMSONS 02-27-13
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Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/29/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

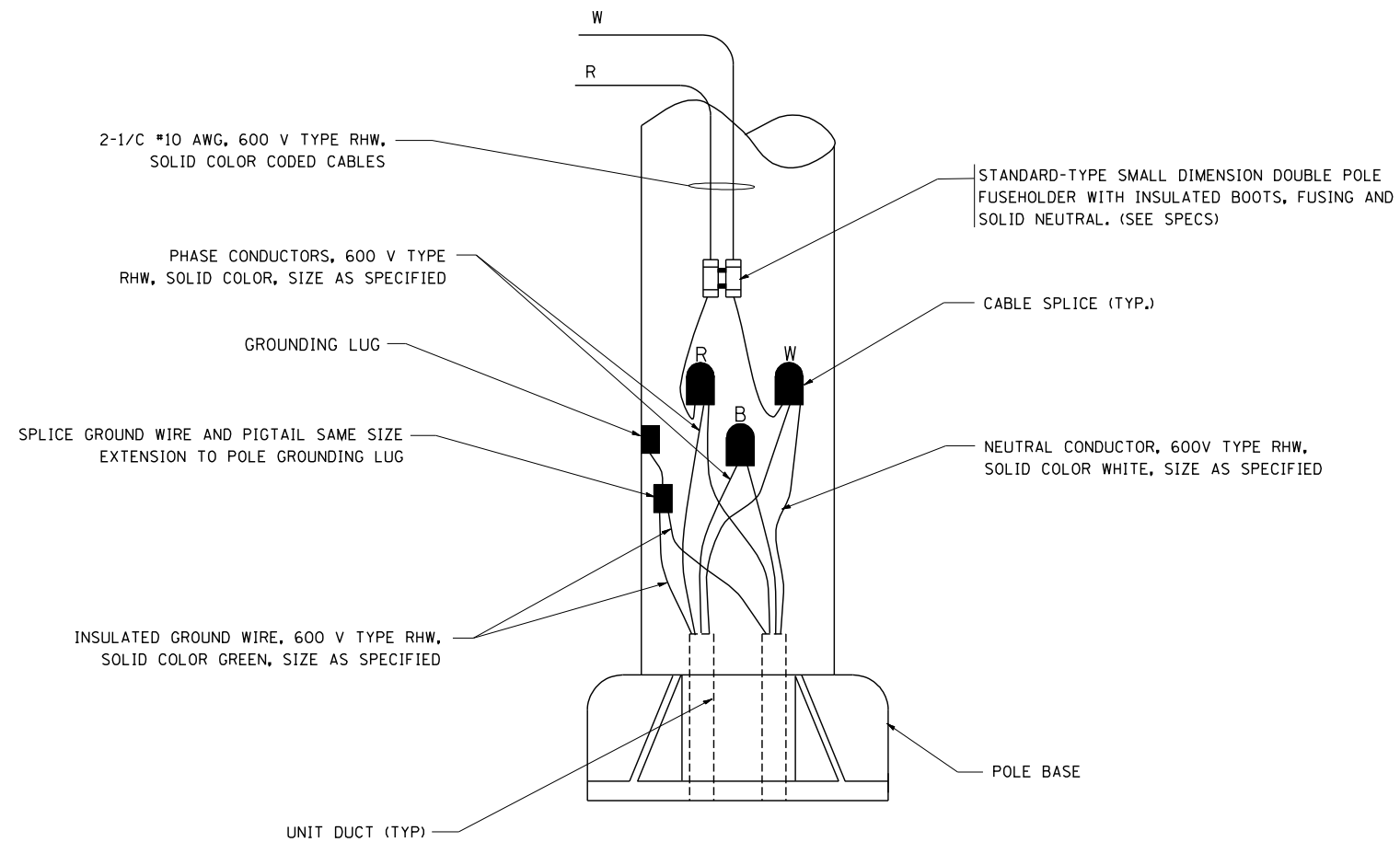
<b>HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL</b>			
SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			734	367
<b>BE-506</b>		CONTRACT NO.	60Y39	
ILLINOIS FED. AID PROJECT				



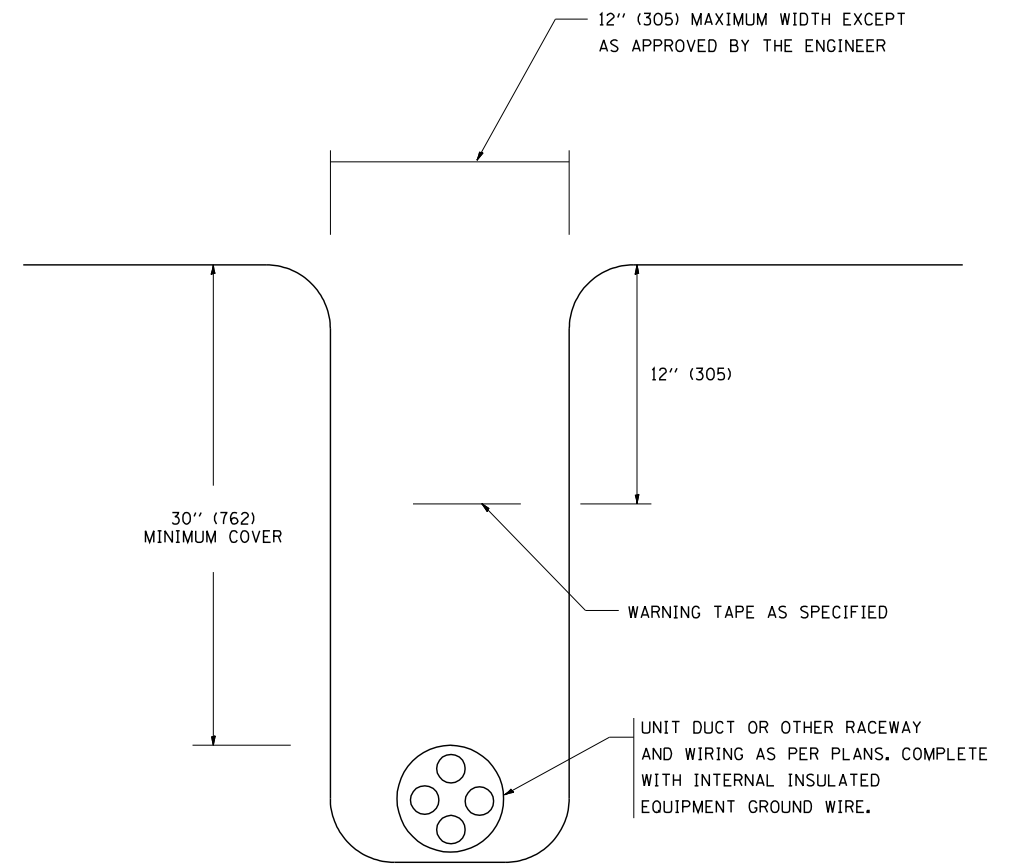
**TYPICAL SPLICE DETAIL**

N.T.S.



**POLE WIRING DETAIL**

N.T.S.



**TYPICAL WIRING IN TRENCH DETAIL**

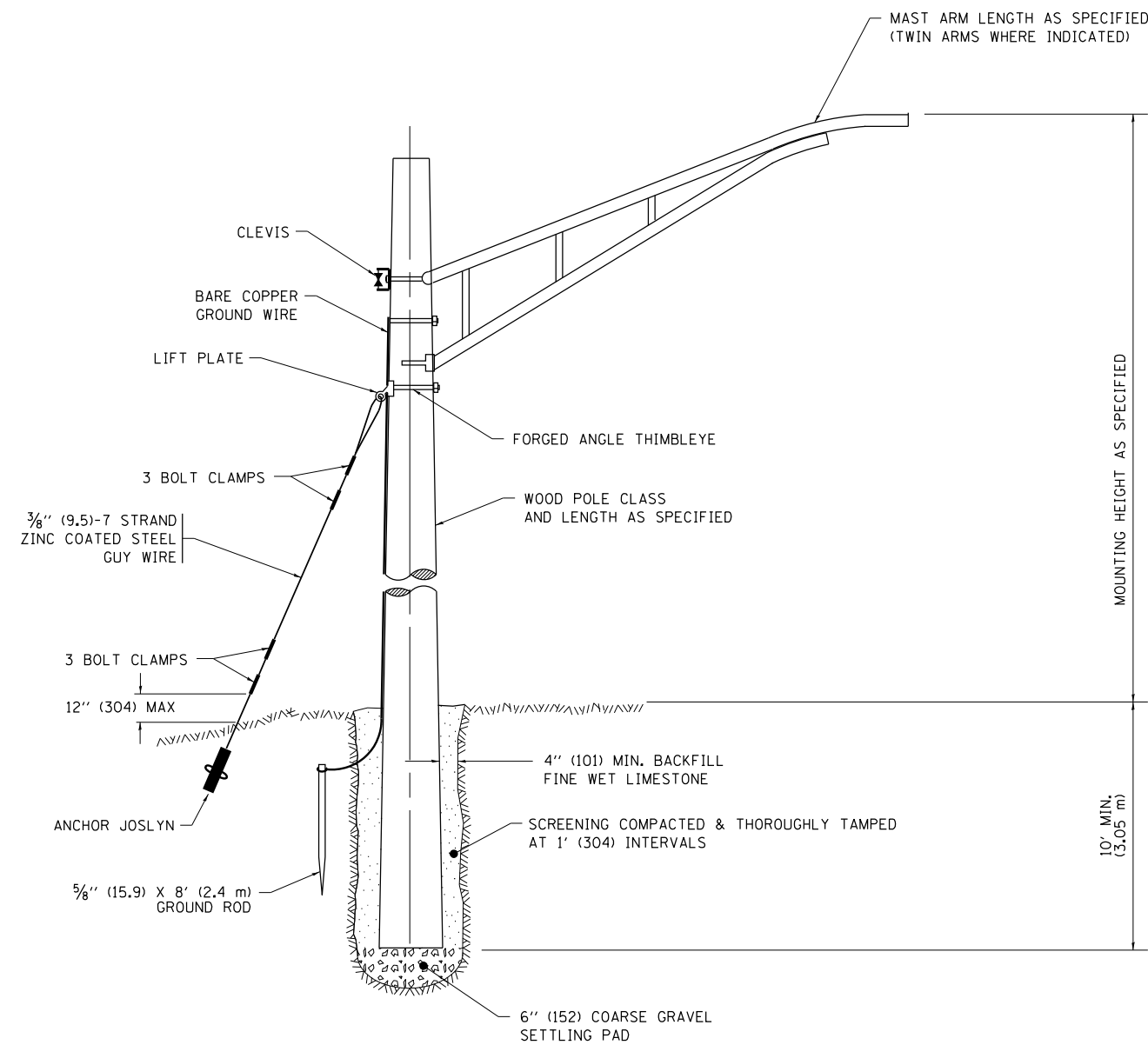
N.T.S.

FILE NAME = W:\diststd\22x34\be702.dgn	USER NAME = gaglianob	DESIGNED -	REVISED - 08-08-03
		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

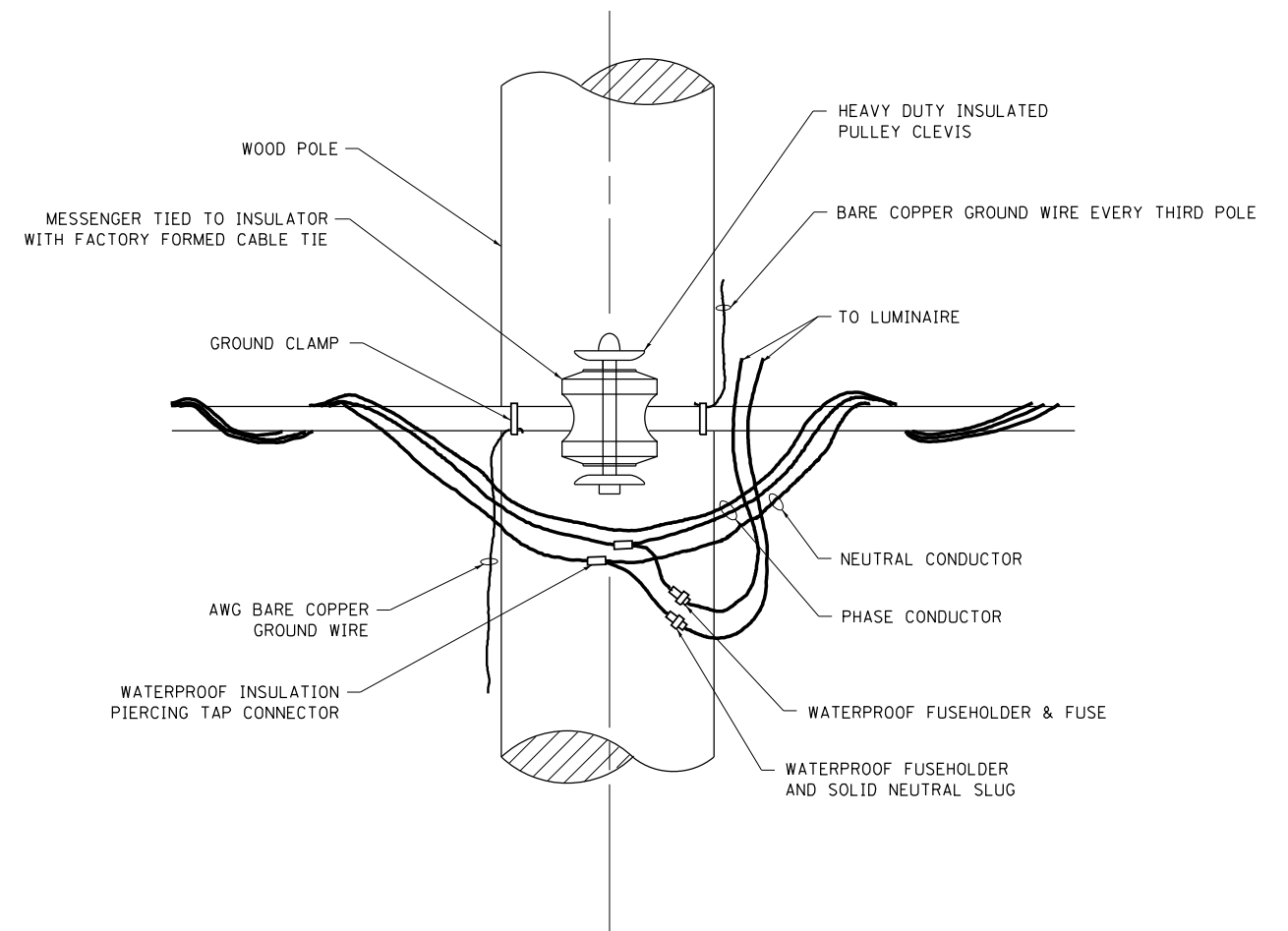
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			734	368
<b>BE-702</b>		CONTRACT NO.	60Y39	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



## TEMPORARY LIGHT POLE DETAIL

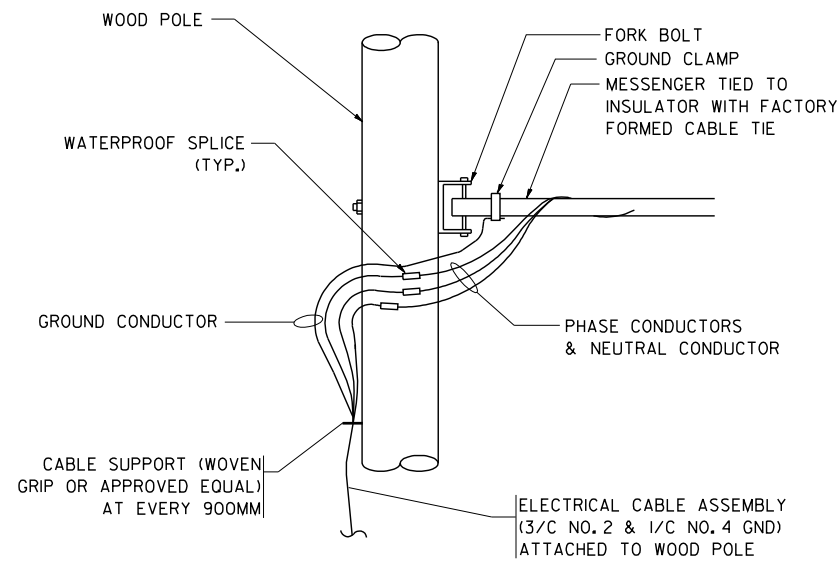
### NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

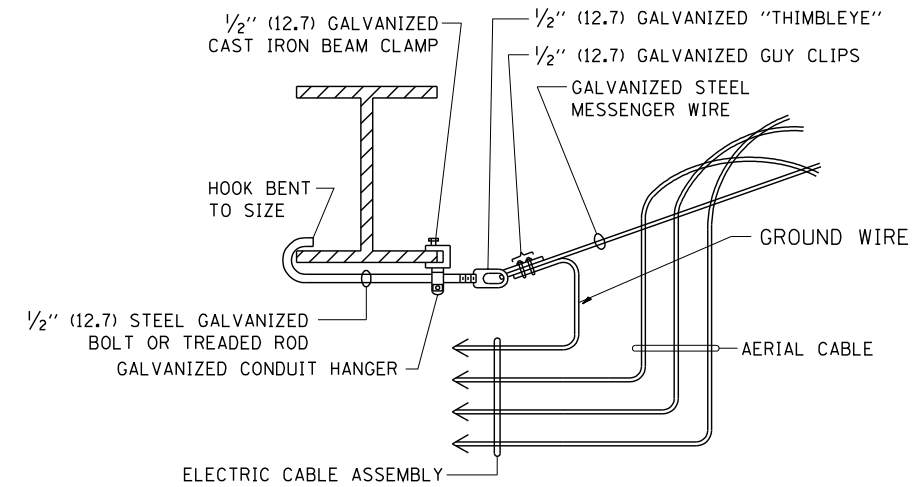


## TEMPORARY LIGHT POLE ATTACHMENT DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY LIGHT POLE DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBID\INTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\BROWN\CADD\to\CAD\sheets\be800.dgn	DRAWN	REVISOR - R.T. 07-26-16	REVISED -								734	369
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -		SCALE: NONE			SHEET 1	OF 1	SHEETS	STA.	TO STA.
	PLOT DATE = 9/1/2016	DATE -	REVISED -		CONTRACT NO. 60Y39			ILLINOIS FED. AID PROJECT				



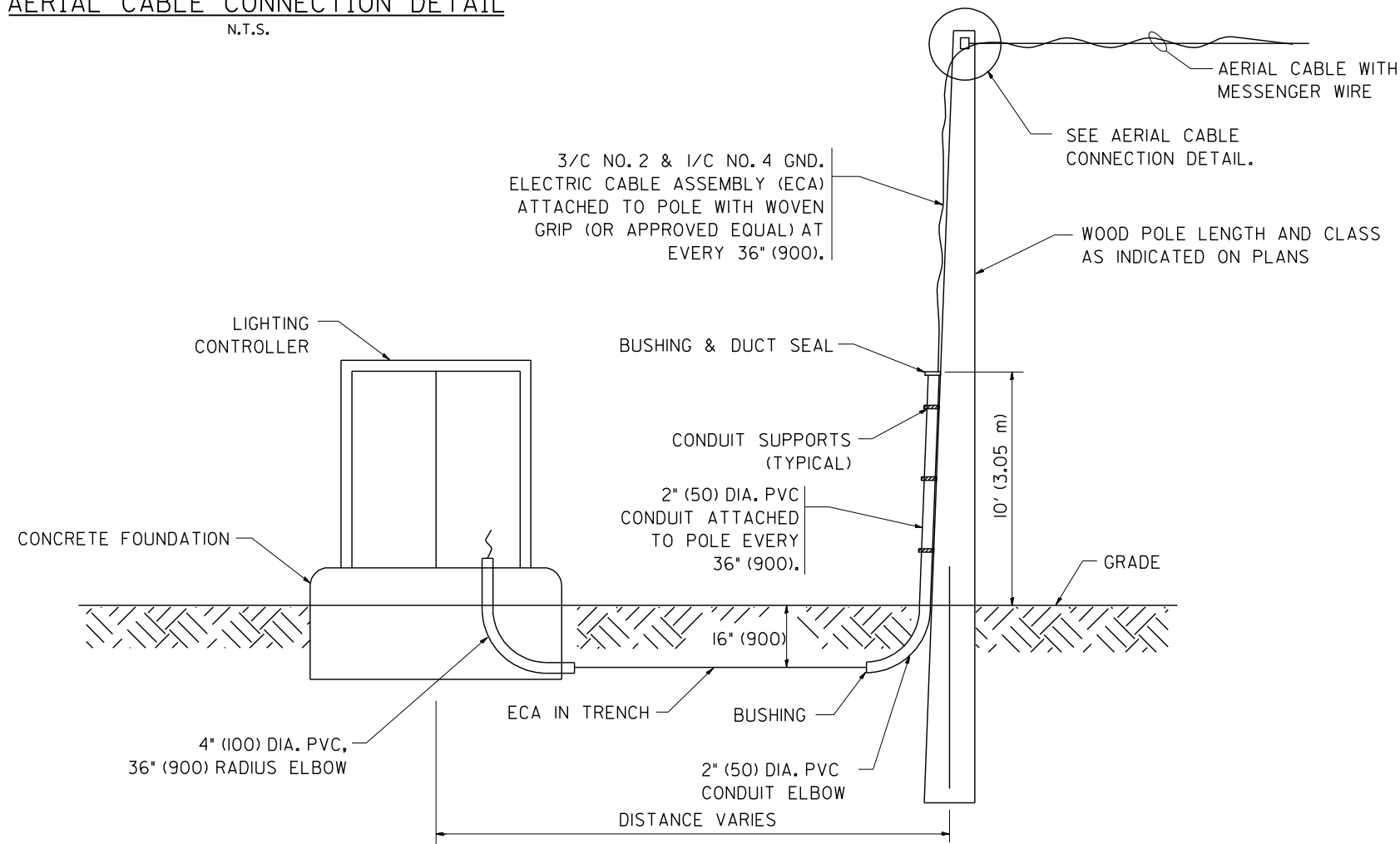
**AERIAL CABLE CONNECTION DETAIL**  
N.T.S.



**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.

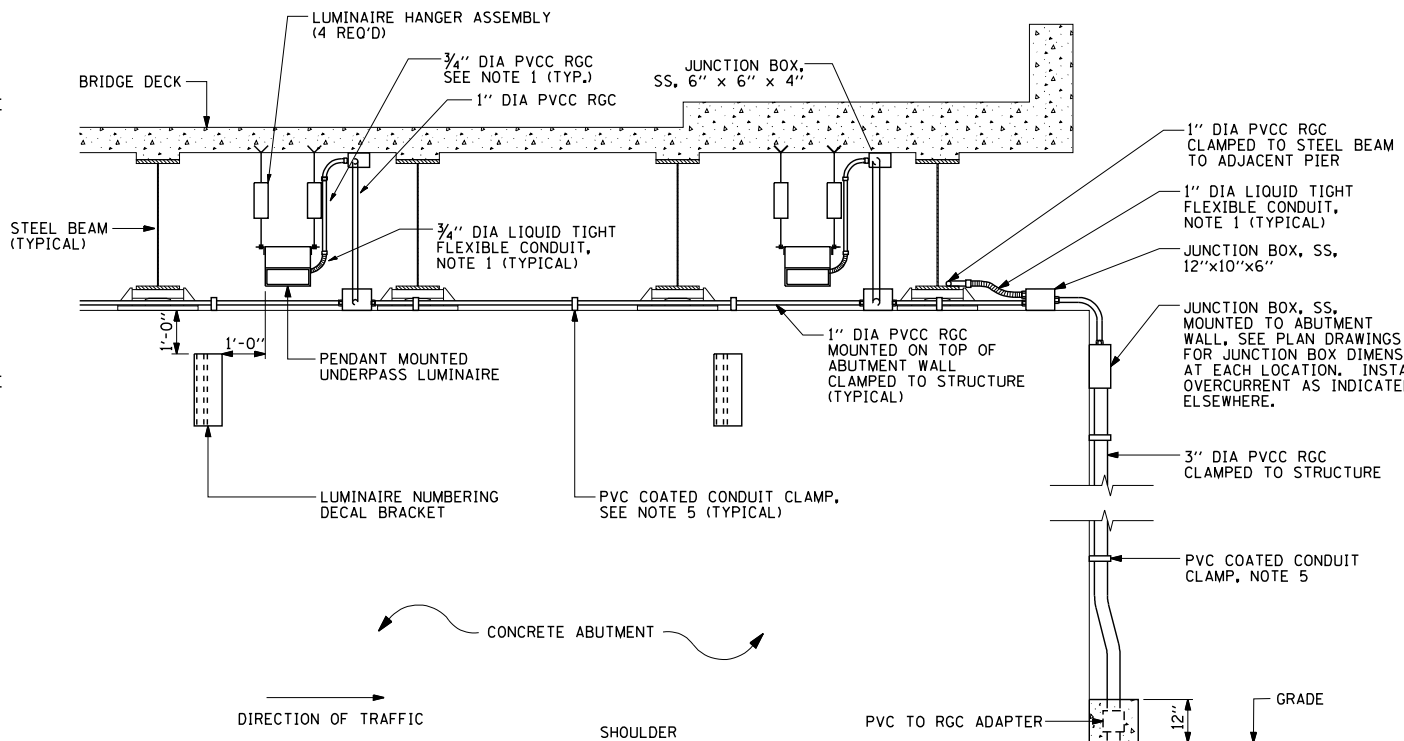
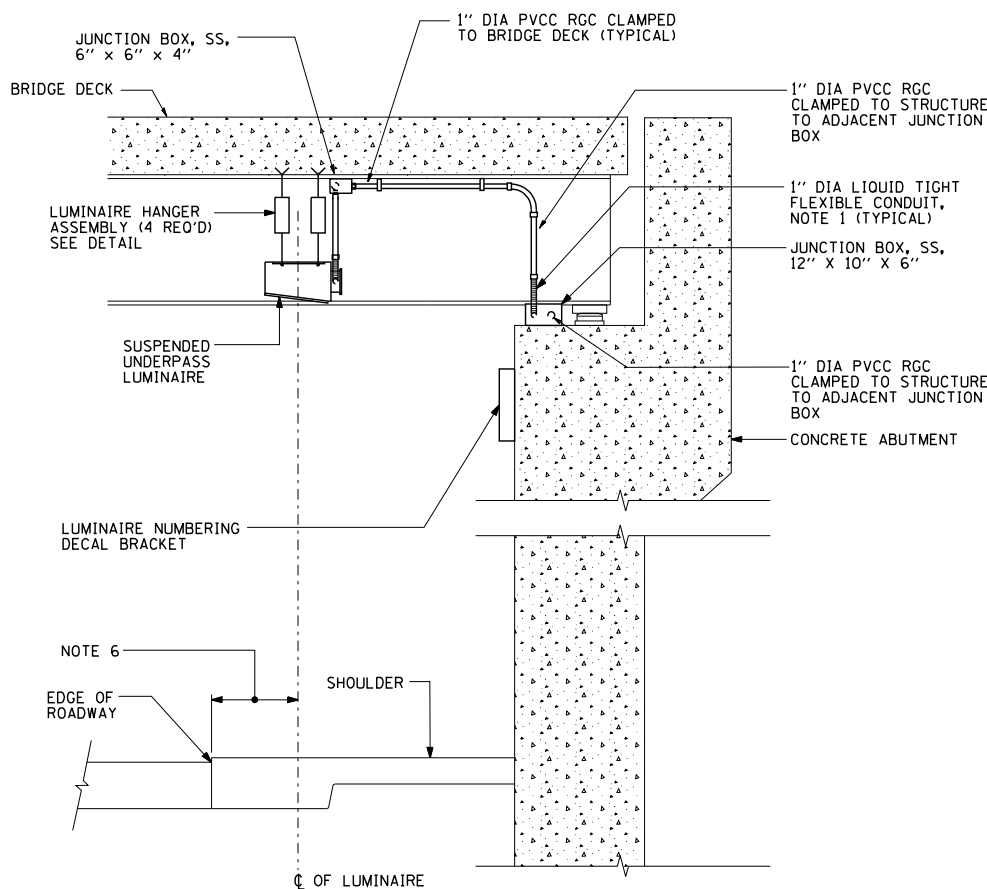
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		08-08-03	
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISOR -	
PLOT DATE = 1/4/2008	DATE -	REVISOR -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

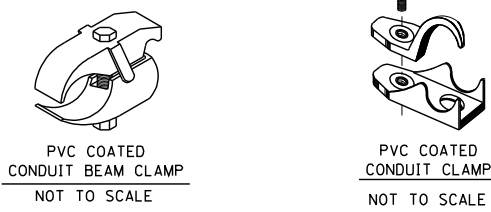
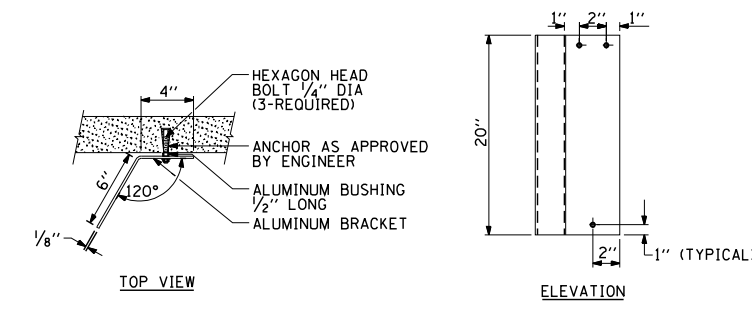
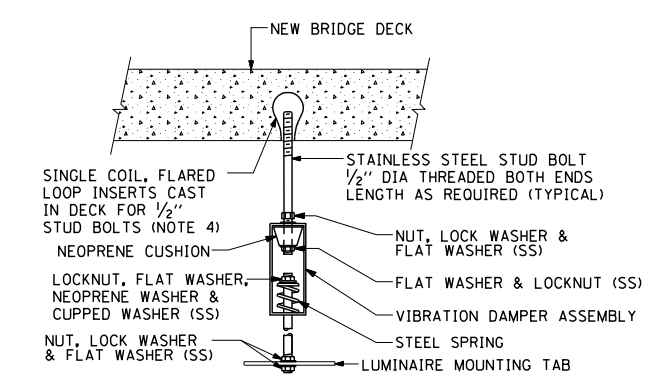
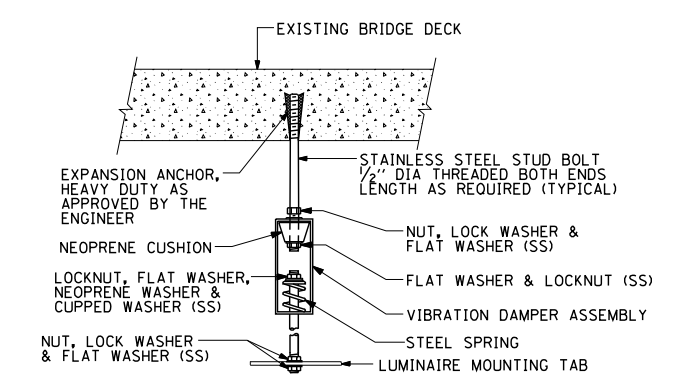
**TEMPORARY AERIAL CABLE INSTALLATION**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			734	370
BE-001		CONTRACT NO.	60Y39	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
  - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
  - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
  - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
  - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
  - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
  - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
  - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

FILE NAME = W:\diststd\22x34\be900.dgn	USER NAME = gaglanobt	DESIGNED -	REVISED - 12-12-05	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-900	CONTRACT NO. 60Y39	734	371
		PLOT SCALE = 50.000' / IN.	CHECKED -									
		PLOT DATE = 1/4/2008	DATE -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

**GENERAL I.T.S. NOTES**

1. THE CONTRACTOR SHALL EXERCISE CARE WITH THE INSTALLATION OF UNDERGROUND EQUIPMENT AS THERE MAY BE EXISTING PRIVATELY OWNED FACILITIES WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY UTILITIES IN THE WORK ZONE AND REQUEST UTILITY LOCATES.
2. FIBER OPTIC CABLE SLACK SHALL BE AS FOLLOWS: 100 FEET FOR EACH CABLE (96 AND 12 FIBER) AT COMMUNICATIONS VAULTS WHERE SPLICING IS INDICATED. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT COMMUNICATIONS VAULTS WHERE NO SPLICING IS INVOLVED.
3. THE ELECTRICAL MAINTENANCE CONTRACTOR (EMC) SHALL BE CONTACTED FOR EXISTING STATE OWNED FACILITY LOCATES.
4. ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE.
5. CONDUIT CROSSING OVER/UNDER OTHER UTILITIES SHALL MAINTAIN A SEPARATION OF AT LEAST 12 INCHES OR AS SPECIFIED BY OWNING UTILITY.
6. PROPOSED CONDUIT ROUTES SHOWN IN THE PLANS ARE SCHEMATIC ONLY. CONTRACTOR TO VERIFY EXACT ROUTE WITH FIELD ENGINEER.
7. TEMPORARY WOOD POLES NOT SPECIFICALLY CALLED OUT IN THE "ITS REMOVAL PLANS AND ADVANCE WORK" ARE INSTALLED AS PART OF THE TEMPORARY LIGHTING AND WILL NOT BE PAID FOR AS PART OF TEMPORARY ITS WORK.
8. EXISTING ITS EQUIPMENT AND CABLING SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL ADVANCE DEVICES ARE INSTALLED AND INTEGRATED.
9. ADVANCE ITS EQUIPMENT AND CABLING SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL PERMANENT DEVICES ARE INSTALLED AND INTEGRATED.
10. ALL ABANDONED CABLES MUST COMPLY WITH NEC REQUIREMENTS.

**ITS SHEET INDEX**

- 373 - 376 ITS REMOVAL PLANS AND ADVANCE WORK
- 377 - 392 ITS PROPOSED CONDUIT AND CABLE PLANS
- 393 - 394 ITS SITE INSTALLATION PLANS
- 395 - 401 ITS COMMUNICATIONS PLANS
- 402 - 409 ITS FIBER ASSIGNMENT DETAILS
- 410 - 441 ITS INSTALLATION DETAILS
- 442 - 444 RAMP GATE DETAILS

**ComEd COORDINATION - (REFERENCE ONLY)**

ITS POWER SERVICE INFORMATION:  
 ACCOUNT NO. : 1310075007  
 ComEd Contact: ROBERT CHRISTMAS  
 ComEd Phone NO. : 1-773-509-3243

**PLAN LEGEND**

EXISTING	PROPOSED	
		CONDUIT AS LABELED ON PLANS
		FIBER OPTIC CABLE AS LABELED ON PLANS
		POWER CABLES AS LABELED ON PLANS
		AERIAL CABLE
		LOOP LEAD-IN CABLES
		TELEPHONE BACKHAUL CABLES AS LABELED ON PLANS
		CCTV COMPOSITE CABLE
		DYNAMIC MESSAGE SIGN COMM CABLE
		CCTV CAMERA
		INDUCTION LOOP
		RADAR VEHICLE DETECTION SYSTEM
		GROUND-MOUNTED CABINET (TYPE SPECIFIED ON PLANS)
		POLE-MOUNTED CABINET (CABINET, MODEL 336)
		UTILITY SERVICE
		HEAVY-DUTY HANDHOLE
		COMMUNICATIONS VAULT
		ELECTRICAL SPLICE PEDESTAL
		RAMP GATE AND BOLLARD
		RAMP SIGNAL
		JUNCTION BOX
		80' CCTV CAMERA POLE
		TEMPORARY WOOD POLE, 100 FT. (SEE LIGHTING PLANS)
		ADVANCE FLASHER SIGN
		COMED METER PEDESTAL
		COMMUNICATIONS SHELTER

**PLAN CALLOUT/PAY ITEM LEGEND**

PLAN CALLOUT	PAY ITEM DESCRIPTION
CABINET (R)	REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT
FLASHING BEACON SIGN (R)	SIGN REMOVAL
RAMP GATE (S)	REMOVE EXISTING GATE
DMS (S)	REMOVE SIGN (SPECIAL)
CONCRETE FOUNDATION (R)	REMOVE EXISTING CONCRETE FOUNDATION
SIGNAL HEAD AND PEDESTAL (R)	REMOVE EXISTING SIGNAL HEAD AND POST
2 IN. GSC (I)	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
3 IN. GSC (I)	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
4 IN. GSC (I)	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
1/4 IN. CNC (I)	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1/4" DIA.
1/C NO. 12 (I)	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12
1/C NO. 8 (I); 1/C NO. 8 GROUND (I)	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8
1/C NO. 6 (I); 1/C NO. 6 GROUND (I)	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6
1/C NO. 2 (I); 1/C NO. 2 GROUND (I)	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2
1/C NO. 1/0 (I); 1/C NO. 1/0 GROUND (I)	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0
2-1/C NO. 6 AERIAL (I)	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE
CONCRETE FOUNDATION, TYPE A (I)	CONCRETE FOUNDATION, TYPE A
CONCRETE FOUNDATION, TYPE D (I)	CONCRETE FOUNDATION, TYPE D
INDUCTION LOOP CABLE	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED
INDUCTION LOOP DETECTOR	DIGITAL LOOP DETECTOR SENSOR UNIT (4 CHANNEL)
CABINET, MODEL 334 (I)	CABINET, MODEL 334
CABINET, MODEL 336 (I)	EQUIPMENT CABINET
1/4 IN. IDT (I)	FIBER OPTIC INNERDUCT 1/4" DIA.
ETHERNET SWITCH (I)	ETHERNET SWITCH
CCTV CAMERA EQUIPMENT (I)	CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT
TEMP. RVDS (I)	RADAR VEHICLE DETECTION SYSTEM
RVSS (R)	REMOVE TEMPORARY INTERCONNECT
CCTV CAMERA (I)	CLOSED CIRCUIT TELEVISION CAMERA, HD
CCTV CAMERA POLE FOUNDATION (I)	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, FOUNDATION, 80 FT. MOUNTING HEIGHT
CCTV CAMERA POLE (I)	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, GALVANIZED STEEL, 80 FT. MOUNTING HEIGHT
CONCRETE FOUNDATION, CABINET MODEL 334	CONCRETE FOUNDATIONS (SPECIAL)
CABINET, TYPE IV (I)	CABINET HOUSING EQUIPMENT, TYPE IV
96 FOC (I)	FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
12 FOC (I)	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE
CSF-L	FIBER OPTIC SPLICE-LATERAL
CSF-M	FIBER OPTIC SPLICE-MAINLINE
FOTP (I)	FIBER OPTIC TERMINATION PANEL, 12F OR 24F
DRILL EXISTING HDHH	DRILL EXISTING HEAVY DUTY HANDHOLE
DRILL EXISTING JB	DRILL EXISTING JUNCTION BOX
DRILL EXISTING FDN	DRILL EXISTING FOUNDATION
UTILITY CONNECTION, POWER (I)	ELECTRIC UTILITY SERVICE CONNECTION
POWER SERVICE (I)	ELECTRICAL SERVICE DISCONNECT
tone EQUIPMENT, RECEIVER (I)	tone EQUIPMENT - 3 FREQUENCY RECEIVER PROGRAMMABLE
tone EQUIPMENT, TRANSMITTER (I)	tone EQUIPMENT - 3 FREQUENCY TRANSMITTER PROGRAMMABLE
tone EQUIPMENT, POWER SUPPLY (I)	tone EQUIPMENT - POWER SUPPLY
tone EQUIPMENT, MOUNTING FRAME (I)	tone EQUIPMENT - MOUNTING FRAME
DYNAMIC MESSAGE SIGN (I)	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN
6 PAIR NO. 19	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 19 6 PAIR
FLASHING BEACON SIGN (I)	LED FLASHING BEACON AND FLASHER CONTROLLER
RAMP GATE (I)	DROP GATE
CONDUIT RISER (I)	CONDUIT RISER, GALV STEEL
WOOD POST (I)	WOOD POST
WOOD POLE (I)	WOOD POLE, 60 FT, CLASS 4
SIGNAL HEAD AND PEDESTAL (I)	TRAFFIC CONTROL LED SIGNAL HEAD (2 SECTION, 1 FACE) AND PEDESTAL
COMMUNICATIONS SHELTER	ILLINOIS DEPARTMENT OF TRANSPORTATION COMMUNICATIONS NODE
FIBER CABINET AND FOUNDATION	FIBER OPTIC INTERCONNECT CABINET
CABLE (R)	REMOVE ELECTRIC CABLE FROM CONDUIT
HHH (R)	REMOVE EXISTING HANDHOLE
FOC (R)	REMOVE FIBER OPTIC CABLE FROM CONDUIT
ELECTRICAL SPLICE PEDESTAL (I)	EQUIPMENT CABINET AND PEDESTAL MOUNTED BASE
METER PEDESTAL (I)	POWER DISTRIBUTION CENTER, PEDESTAL MOUNT

**ABBREVIATIONS AND ACRONYMS**

NOTATION	DESCRIPTION
AMW	AERIAL MESSENGER WIRE (INTEGRATED WITH AERIAL CABLE)
COMM	COMMUNICATIONS
CSF	CABLE SPLICE, FIBER OPTIC, FUSION
CCTV	CLOSED CIRCUIT TELEVISION
DCF	DISTRIBUTION CABLE, FIBER OPTIC
DMS	DYNAMIC MESSAGE SIGN
ECC	ELECTRICAL CABLE IN CONDUIT
EMB	CONDUIT EMBEDDED IN STRUCTURE
ETH	ETHERNET CABLE
FOC	FIBER OPTIC CABLE
FOTP	FIBER OPTIC TERMINATION PANEL
FOSC	FIBER OPTIC SPLICE CLOSURE
FOSE	FIBER OPTIC SPLICE ENCLOSURE
GSC	GALVANIZED STEEL CONDUIT (RIGID)
HHH	HEAVY-DUTY HANDHOLE
IDT	INNERDUCT
LCF	LATERAL CABLE, FIBER OPTIC
TDCF	TEMPORARY DISTRIBUTION CABLE, FIBER OPTIC
SURV	SURVEILLANCE
SWE	ETHERNET SWITCH
TEMP	TEMPORARY
TCF	TRUNK CABLE, FIBER OPTIC
TYP	TYPICAL
RVSS	RADAR VEHICLE SENSING SYSTEM
RVDS	RADAR VEHICLE DETECTION SYSTEM
E	EXISTING TO REMAIN
R	REMOVE
A	ABANDON IN PLACE
S	REMOVE AND SALVAGE
I	INSTALL
I90	FIBER OPTIC CABLE DESIGNATOR, I-90
I190	FIBER OPTIC CABLE DESIGNATOR, I-190
P19	FIBER OPTIC CABLE DESIGNATOR, PLAZA 19
PS24	FIBER OPTIC CABLE DESIGNATOR, PUMP STATION 24
KE-04	FIBER OPTIC CABLE DESIGNATOR, KENNEDY EXPY



USER NAME = mamiller	DESIGNED RJ	REVISED -
	DRAWN RJ	REVISED -
PLOT SCALE = 2.00' = 1 in.	CHECKED YJ	REVISED -
PLOT DATE = 3/15/2018	DATE 01/19/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

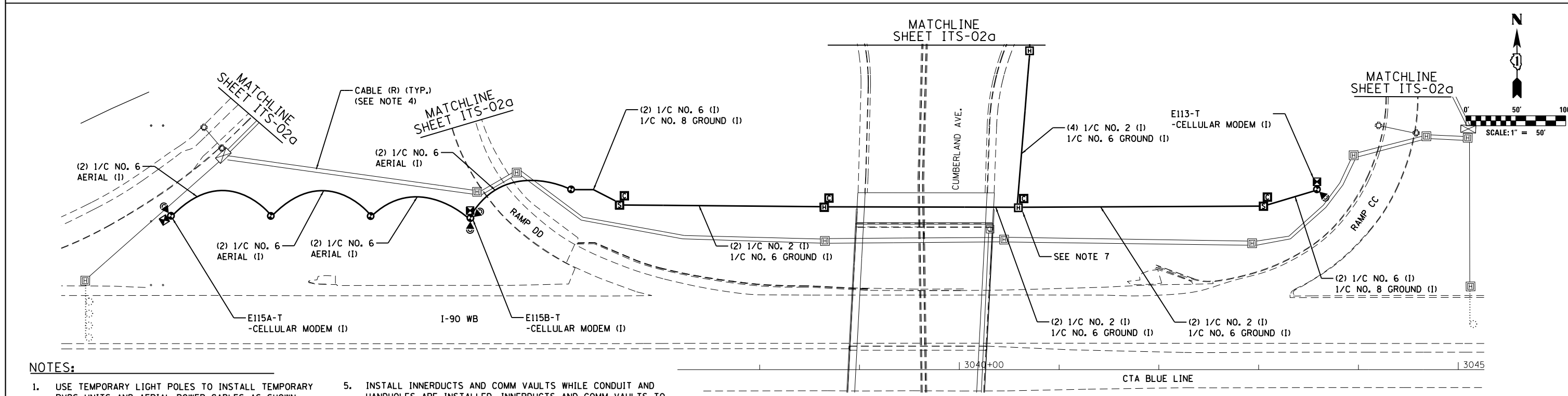
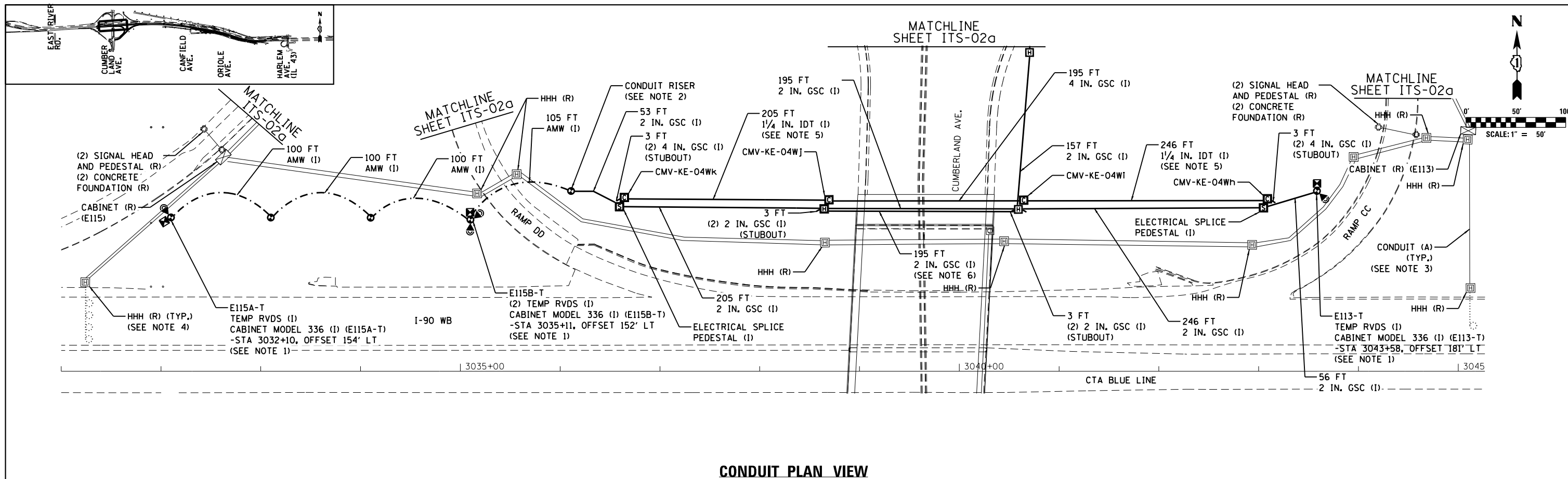
**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS NOTES AND LEGENDS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	372
CONTRACT NO. 60Y39				

ITS-01





**NOTES:**

- USE TEMPORARY LIGHT POLES TO INSTALL TEMPORARY RVDS UNITS AND AERIAL POWER CABLES AS SHOWN. AERIAL POWER CABLES SHOULD NOT BE REMOVED UNTIL PROPOSED PERMANENT DETECTOR LOOPS ARE INSTALLED AND INTEGRATED. SEE IDOT TEMPORARY LIGHTING AND REMOVAL PLANS FOR ALL WOOD POLE LOCATIONS.
- INSTALL CONDUIT RISER ON TEMPORARY LIGHT POLE.
- ABANDON ALL EXISTING CONDUIT THIS SHEET.
- REMOVE ALL EXISTING HANDHOLES AND CABLE THIS SHEET.
- INSTALL INNERDUCTS AND COMM VAULTS WHILE CONDUIT AND HANDHOLES ARE INSTALLED. INNERDUCTS AND COMM VAULTS TO BE USED FOR PERMANENT FIBER CABLE INSTALLATION.
- INSTALL CONDUIT WHILE HANDHOLES ARE INSTALLED. CONDUIT TO BE USED FOR PERMANENT CABLE INSTALLATION.
- CONTRACTOR TO SEPARATE CIRCUITS AT HANDHOLE AND SEND ONE EAST AND ONE WEST AS SHOWN, EACH CIRCUIT NEEDS ITS OWN GROUND CONDUCTOR FROM THIS SEPARATION POINT.
- INTEGRATION OF TEMPORARY ITS EQUIPMENT SHALL BE INCLUDED IN THE ATMS INTEGRATION PAY ITEM.



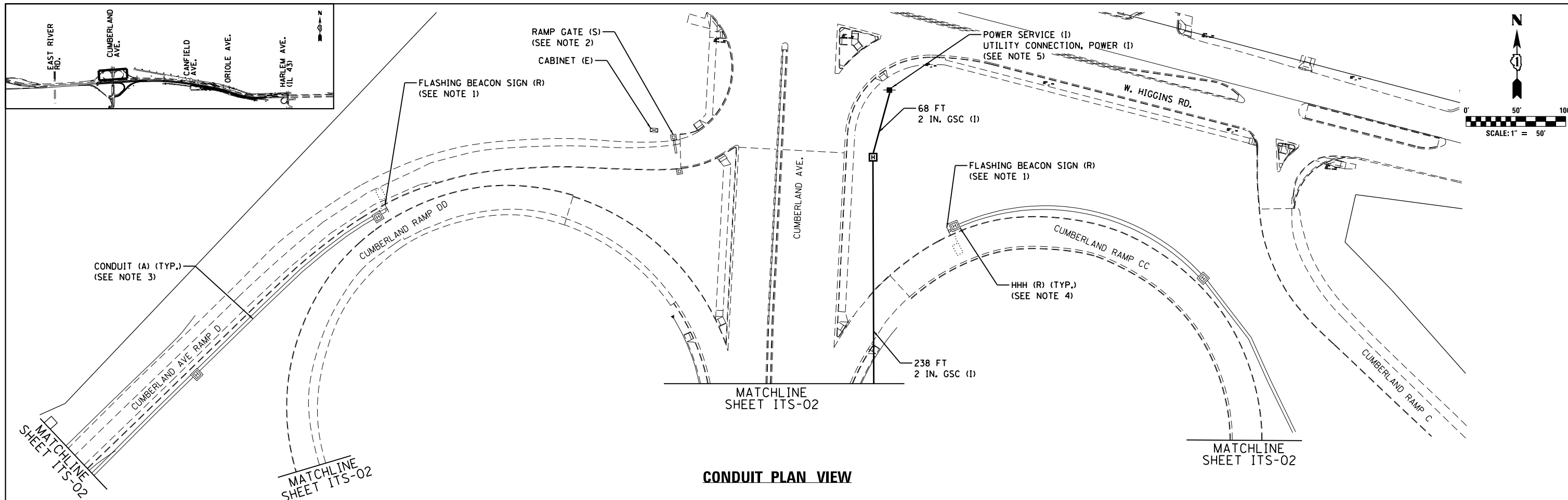
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS REMOVAL PLANS AND ADVANCE WORK**

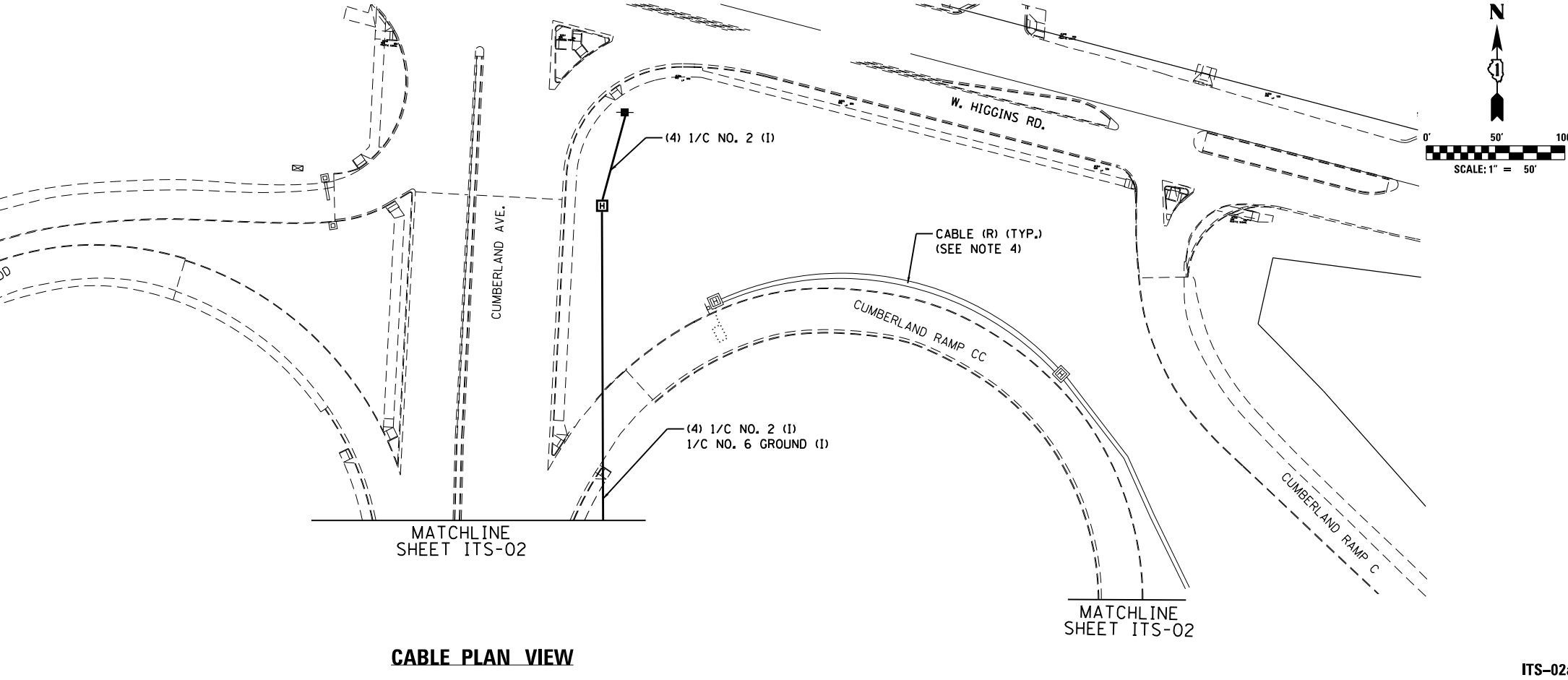
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	373
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. TO STA.



**CONDUIT PLAN VIEW**

- NOTES:**
1. CONTRACTOR TO REMOVE EXISTING ADVANCE RAMP METER FLASHING SIGNS AND CABLES. THE EXISTING CONDUITS TO CABINETS TO BE ABANDONED.
  2. REMOVE ALL EXISTING RAMP GATE COMPONENTS AND SECURELY STORE FOR REINSTALLATION AFTER ROADWAY CONSTRUCTION IS COMPLETE.
  3. ABANDON ALL EXISTING CONDUIT THIS SHEET.
  4. REMOVE ALL EXISTING HANDHOLES AND CABLE THIS SHEET.
  5. CONTRACTOR TO INSTALL A SECOND CIRCUIT BREAKER AT THIS LOCATION AND SEPARATE CIRCUIT GOING EAST AND WEST. SEE SHEET ITS-02 FOR LOCATION OF ELECTRICAL CABLE SEPARATION.
  6. INTEGRATION OF TEMPORARY ITS EQUIPMENT SHALL BE INCLUDED IN THE ATMS INTEGRATION PAY ITEM.



**CABLE PLAN VIEW**



USER NAME = #USER*	DESIGNED RJ	REVISED - -
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PLOT DATE = #DATE*	CHECKED YJ	REVISED -
	DATE 01/19/2018	REVISED -

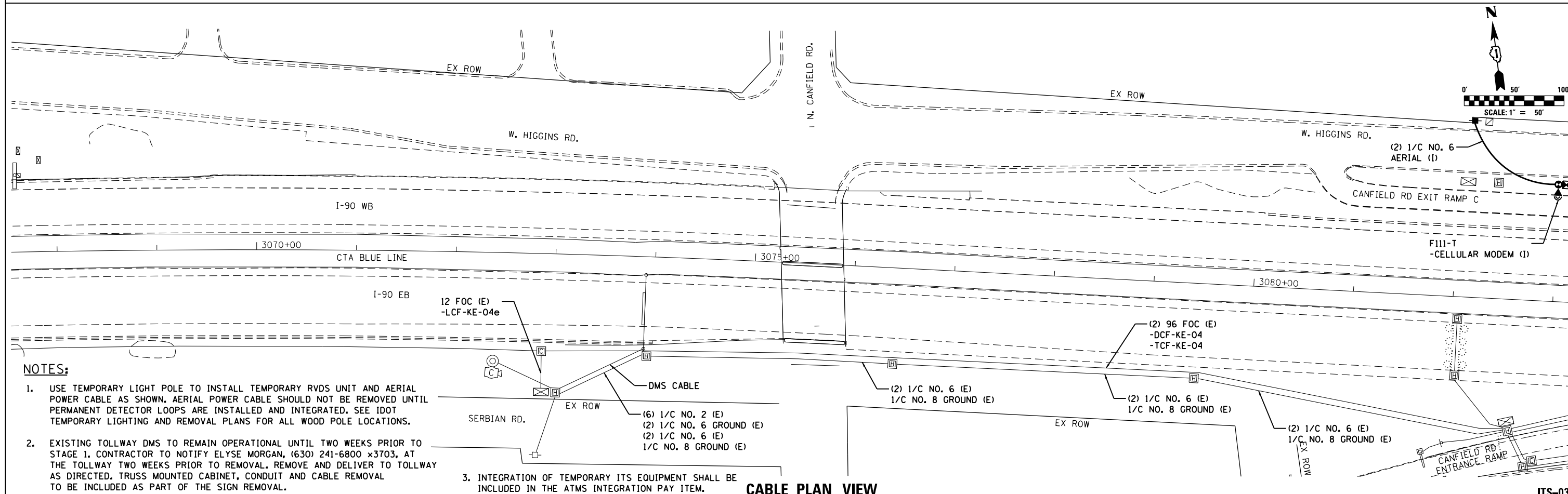
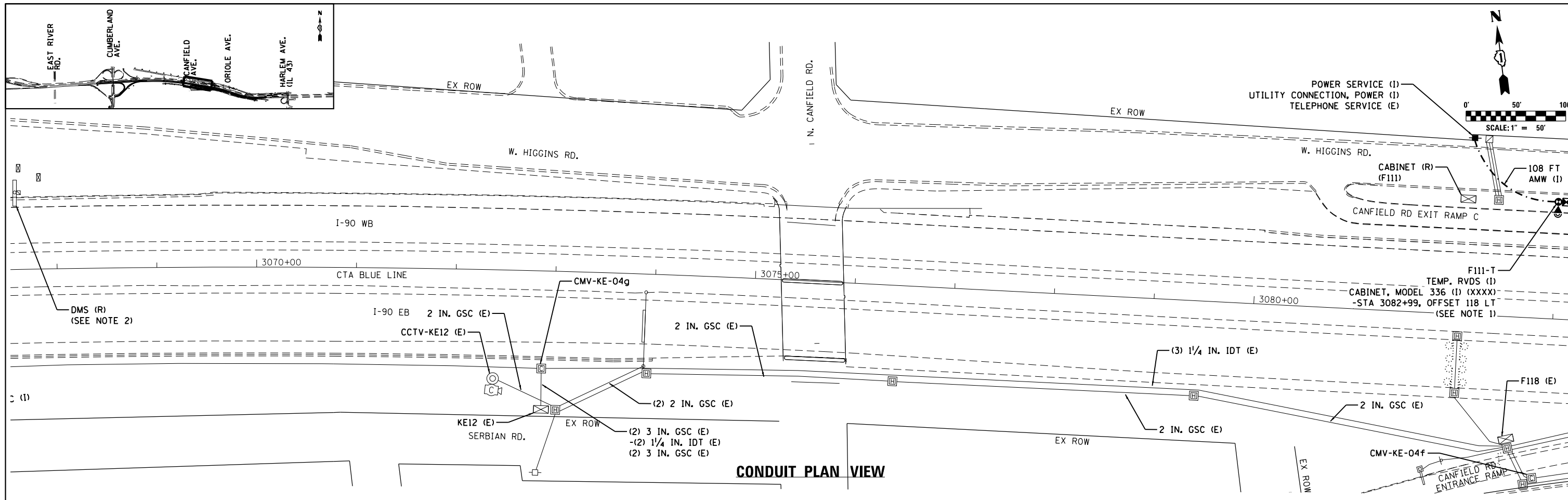
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS REMOVAL PLANS AND ADVANCE WORK**

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	374
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

ITS-02a



- NOTES:**
- USE TEMPORARY LIGHT POLE TO INSTALL TEMPORARY RVDS UNIT AND AERIAL POWER CABLE AS SHOWN. AERIAL POWER CABLE SHOULD NOT BE REMOVED UNTIL PERMANENT DETECTOR LOOPS ARE INSTALLED AND INTEGRATED. SEE IDOT TEMPORARY LIGHTING AND REMOVAL PLANS FOR ALL WOOD POLE LOCATIONS.
  - EXISTING TOLLWAY DMS TO REMAIN OPERATIONAL UNTIL TWO WEEKS PRIOR TO STAGE 1. CONTRACTOR TO NOTIFY ELYSE MORGAN, (630) 241-6800 x3703, AT THE TOLLWAY TWO WEEKS PRIOR TO REMOVAL. REMOVE AND DELIVER TO TOLLWAY AS DIRECTED. TRUSS MOUNTED CABINET, CONDUIT AND CABLE REMOVAL TO BE INCLUDED AS PART OF THE SIGN REMOVAL.
  - INTEGRATION OF TEMPORARY ITS EQUIPMENT SHALL BE INCLUDED IN THE ATMS INTEGRATION PAY ITEM.



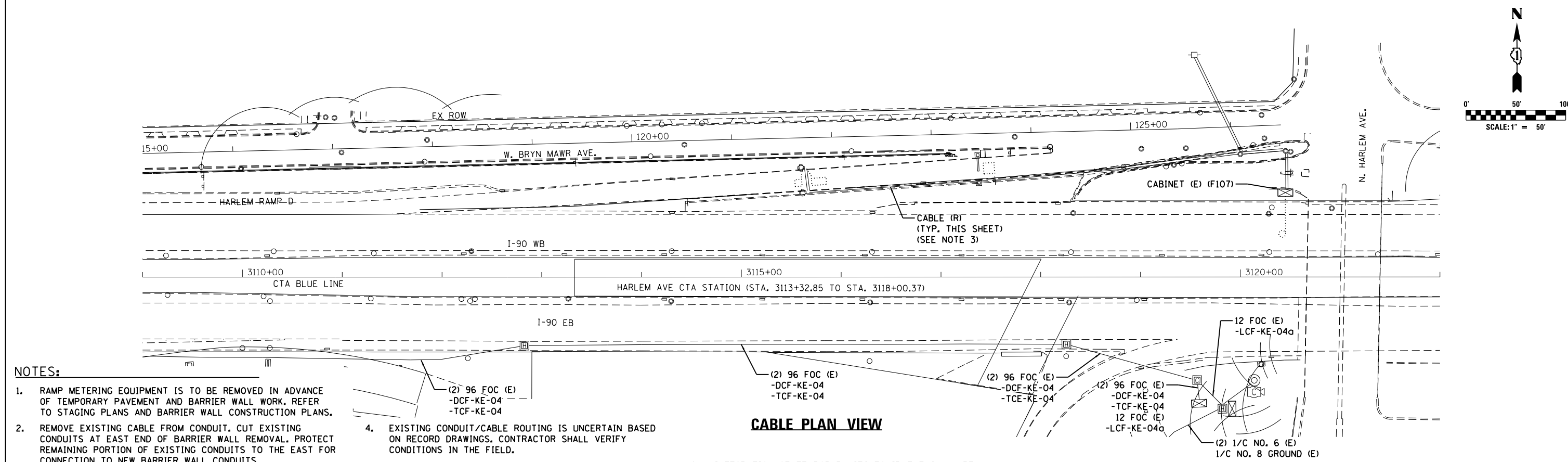
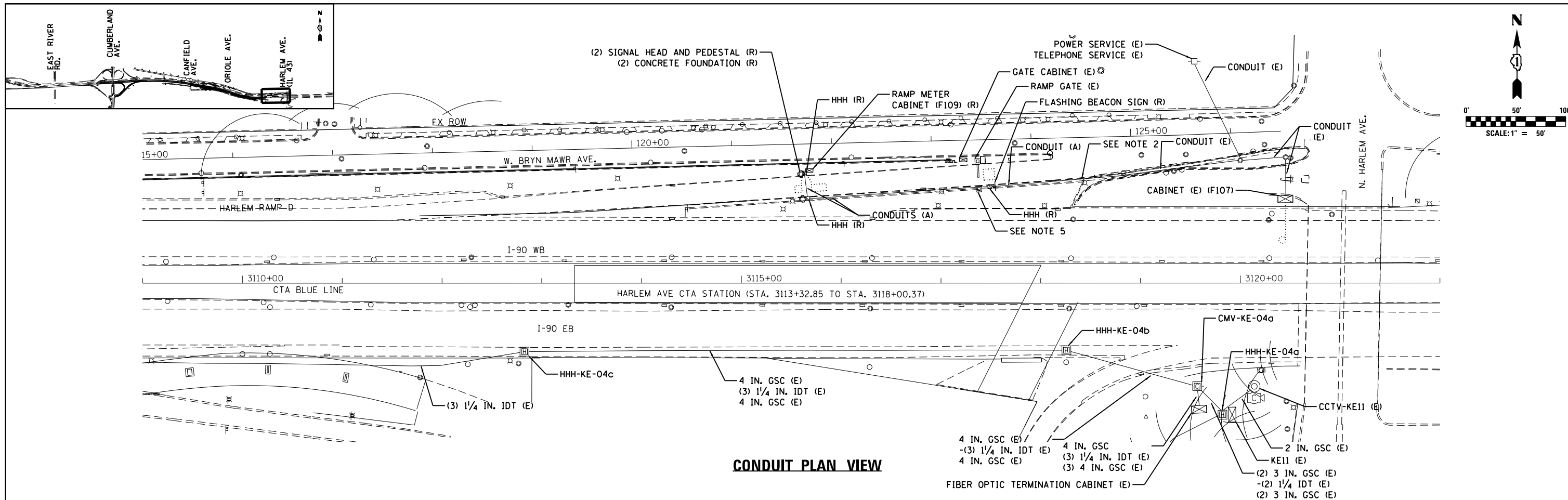
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	DATE 01/19/2018	REVISED - -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS REMOVAL PLANS AND ADVANCE WORK

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	375
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

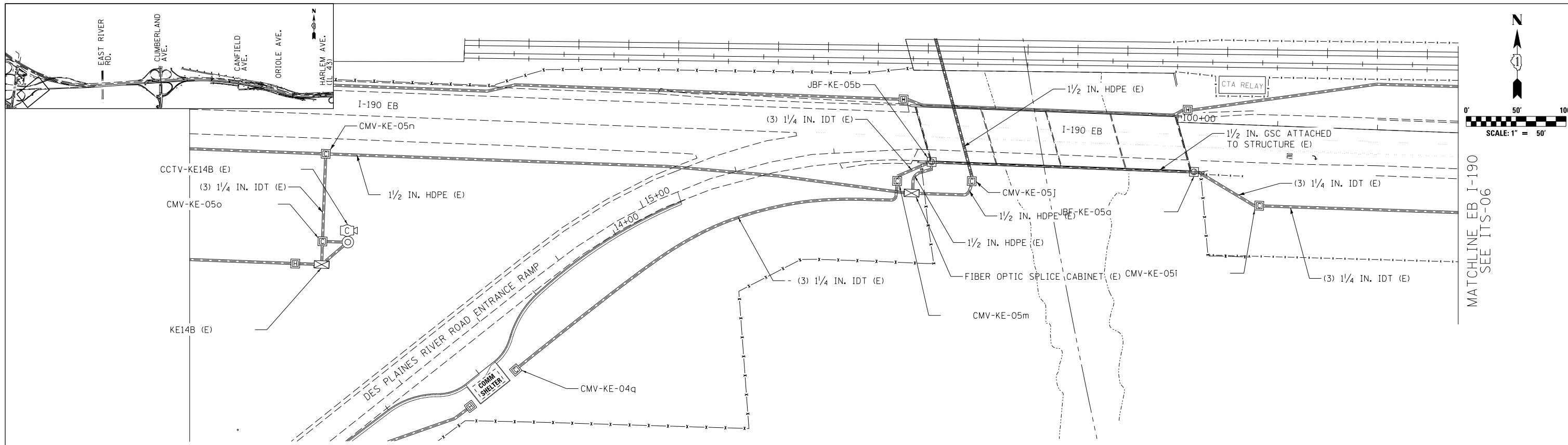
SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.



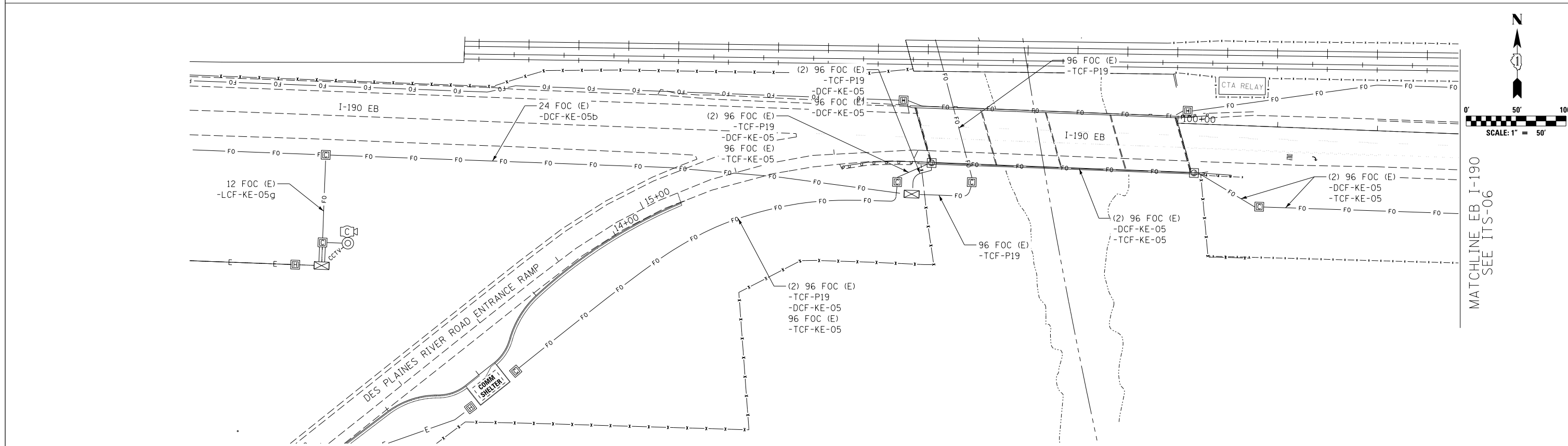
**NOTES:**

- RAMP METERING EQUIPMENT IS TO BE REMOVED IN ADVANCE OF TEMPORARY PAVEMENT AND BARRIER WALL WORK. REFER TO STAGING PLANS AND BARRIER WALL CONSTRUCTION PLANS.
- REMOVE EXISTING CABLE FROM CONDUIT. CUT EXISTING CONDUITS AT EAST END OF BARRIER WALL REMOVAL. PROTECT REMAINING PORTION OF EXISTING CONDUITS TO THE EAST FOR CONNECTION TO NEW BARRIER WALL CONDUITS.
- REMOVE ALL EXISTING CABLES ASSOCIATED WITH THE EXISTING RAMP METERING.
- EXISTING CONDUIT/CABLE ROUTING IS UNCERTAIN BASED ON RECORD DRAWINGS. CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD.
- BARRIER WALL AND ROADWAY WORK SHALL BE PERFORMED TO LEAVE EXISTING GATE AND BOLLARD IN PLACE AND UNDAMAGED.
- INTEGRATION OF TEMPORARY ITS EQUIPMENT SHALL BE INCLUDED IN THE ATMS INTEGRATION PAY ITEM.

	USER NAME = #USER#	DESIGNED RJ	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>I-90 WESTBOUND FROM HARLEM AVE TO I-90 INTERCHANGE</b> <b>ITS REMOVAL PLANS AND ADVANCE WORK</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN RJ	REVISED -			90	(1517 & 1415) R-2	COOK	734	376
	PLOT DATE = #DATE#	CHECKED YJ	REVISED -			CONTRACT NO. 60Y39			ILLINOIS FED. AID PROJECT	

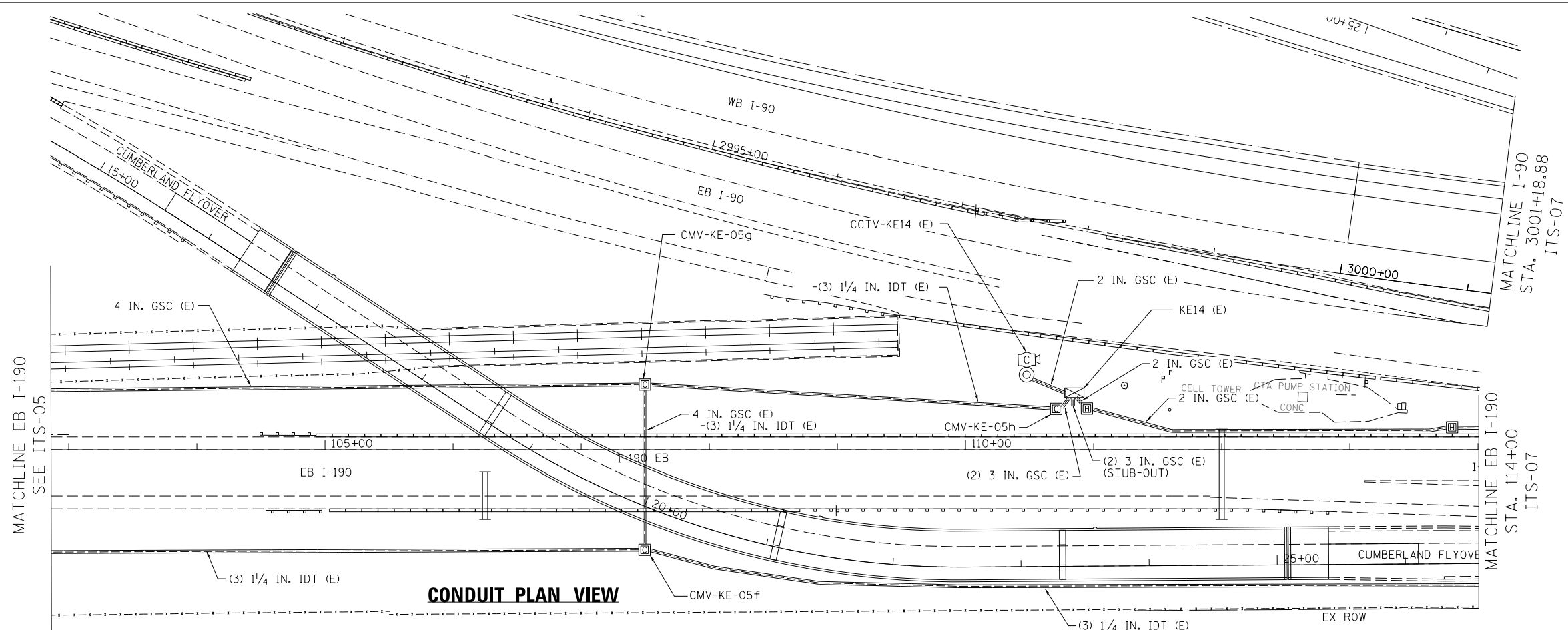
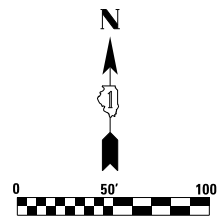
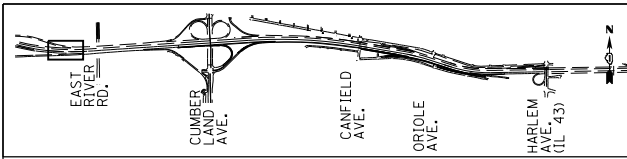


**CONDUIT PLAN VIEW**

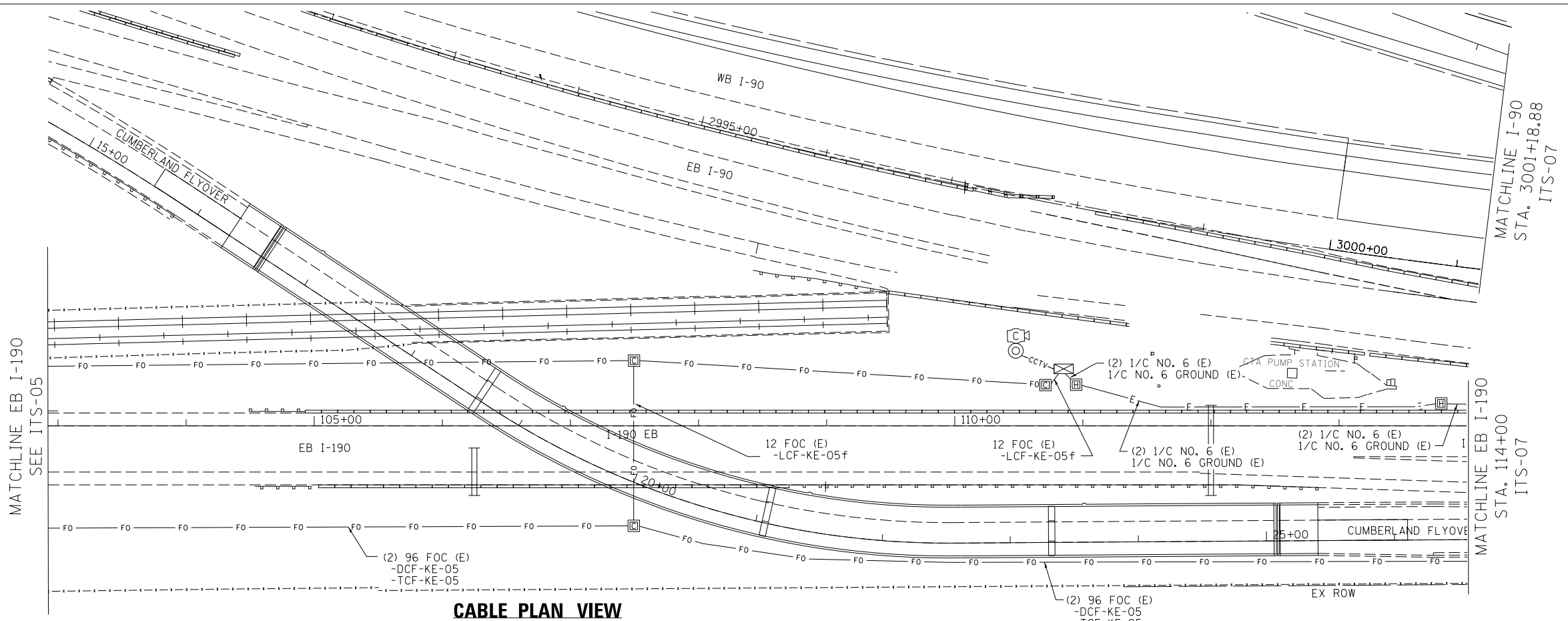
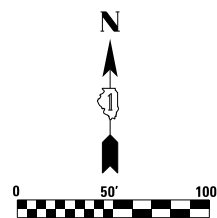


**CABLE PLAN VIEW**

	USER NAME = jblakley	DESIGNED RJ	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE</b> <b>ITS PROPOSED CONDUIT AND CABLE PLANS</b>	F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 377
	PLOT SCALE = 1:8000' / 1"	CHECKED YJ	REVISED -			CONTRACT NO. 60Y39				
	PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE: 1"=50'	SHEET NO. 1 OF 16 SHEETS	STA. TO STA.		



**CONDUIT PLAN VIEW**



**CABLE PLAN VIEW**



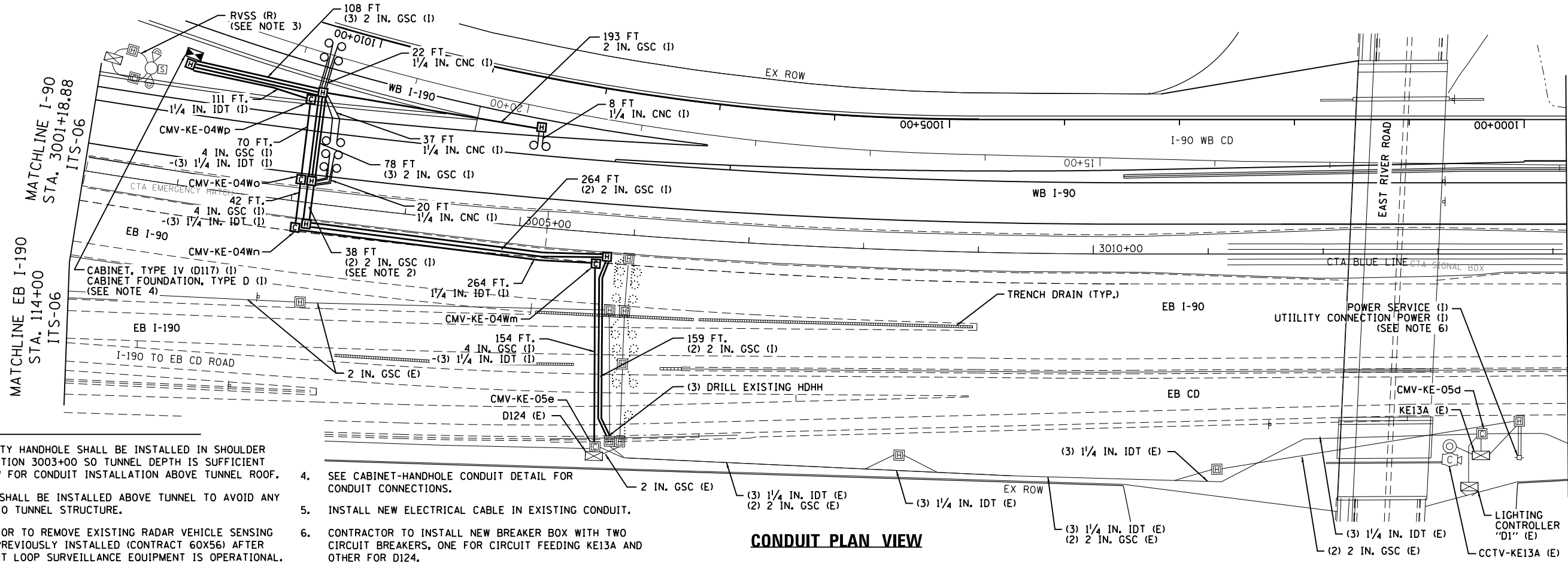
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	DRAWN RJ	REVISED -
PLOT SCALE = 1/80' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/15/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1" = 50' SHEET NO. 2 OF 16 SHEETS STA. TO STA.

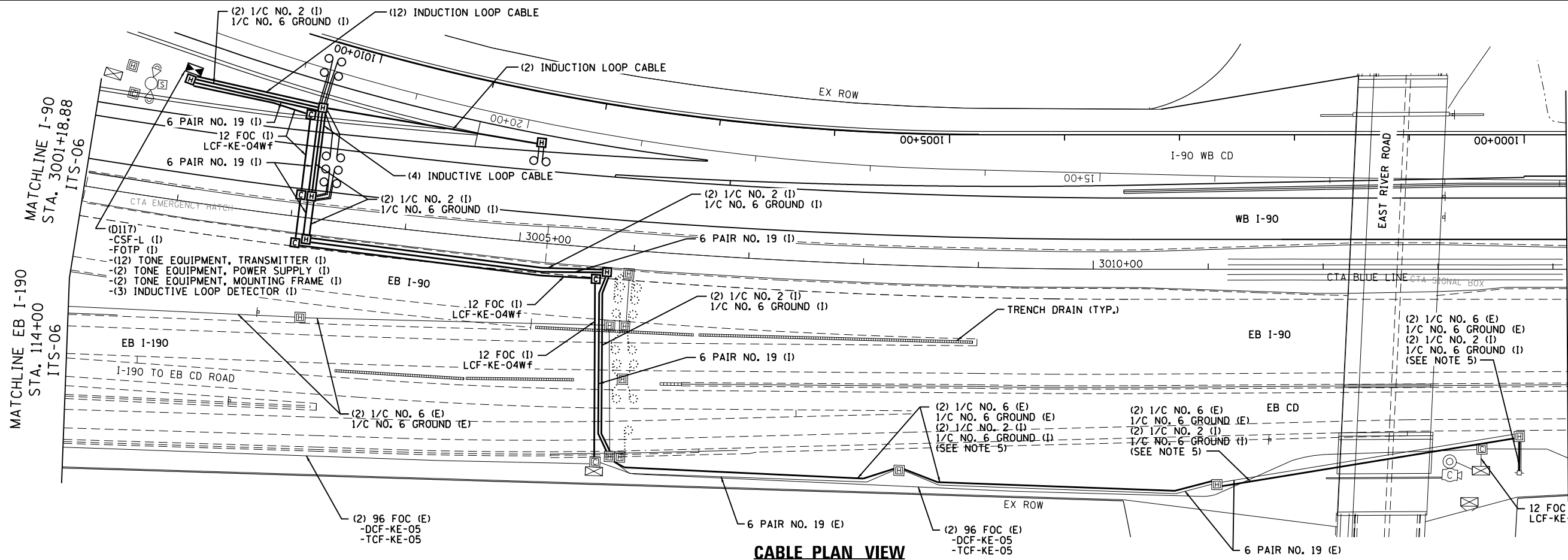
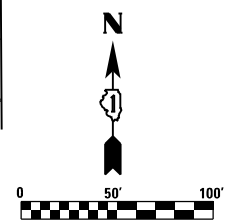
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	378
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	



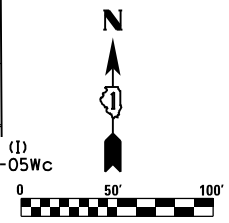
**NOTES:**

- HEAVY-DUTY HANDHOLE SHALL BE INSTALLED IN SHOULDER NEAR STATION 3003+00 SO TUNNEL DEPTH IS SUFFICIENT TO ALLOW FOR CONDUIT INSTALLATION ABOVE TUNNEL ROOF.
- CONDUIT SHALL BE INSTALLED ABOVE TUNNEL TO AVOID ANY DAMAGE TO TUNNEL STRUCTURE.
- CONTRACTOR TO REMOVE EXISTING RADAR VEHICLE SENSING SYSTEM PREVIOUSLY INSTALLED (CONTRACT 60X56) AFTER PERMANENT LOOP SURVEILLANCE EQUIPMENT IS OPERATIONAL.
- SEE CABINET-HANDHOLE CONDUIT DETAIL FOR CONDUIT CONNECTIONS.
- INSTALL NEW ELECTRICAL CABLE IN EXISTING CONDUIT.
- CONTRACTOR TO INSTALL NEW BREAKER BOX WITH TWO CIRCUIT BREAKERS, ONE FOR CIRCUIT FEEDING KE13A AND OTHER FOR D124.

**CONDUIT PLAN VIEW**



**CABLE PLAN VIEW**



USER NAME = #USER*	DESIGNED RJ	REVISED -
PLOT SCALE = #SCALE*	DRAWN RJ	REVISED -
PLOT DATE = #DATE*	CHECKED YJ	REVISED -
	DATE 01/19/2018	REVISED -

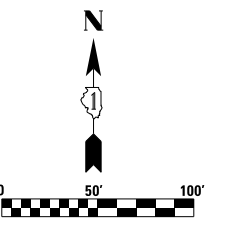
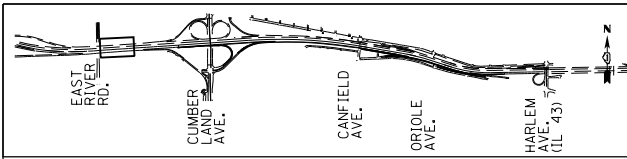
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WESTBOUND I-90 FROM HARLEM AVE TO I-90 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 650	SHEET NO. 379
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

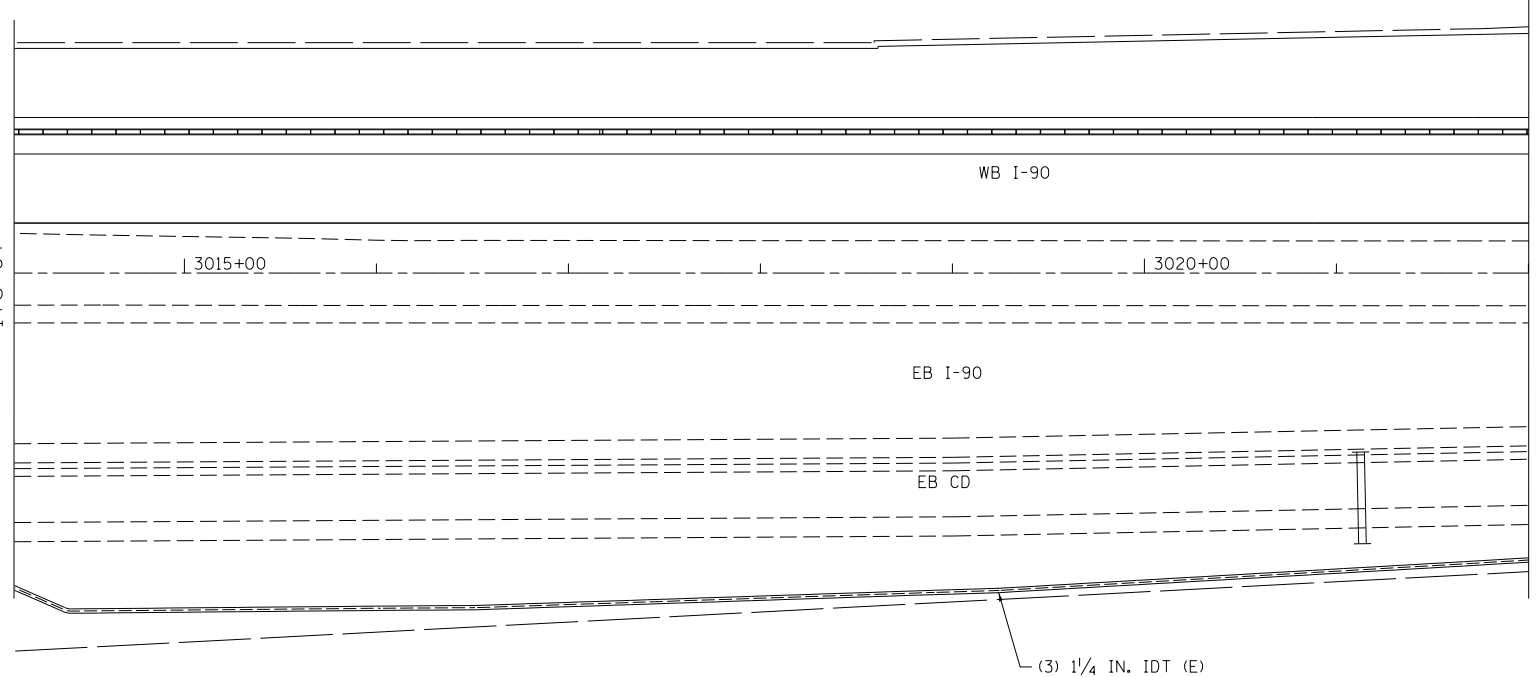
SCALE: 1" = 50' SHEET NO. 3 OF 16 SHEETS STA. TO STA.

ITS-07



MATCHLINE  
STA. 3014+00  
ITS-07

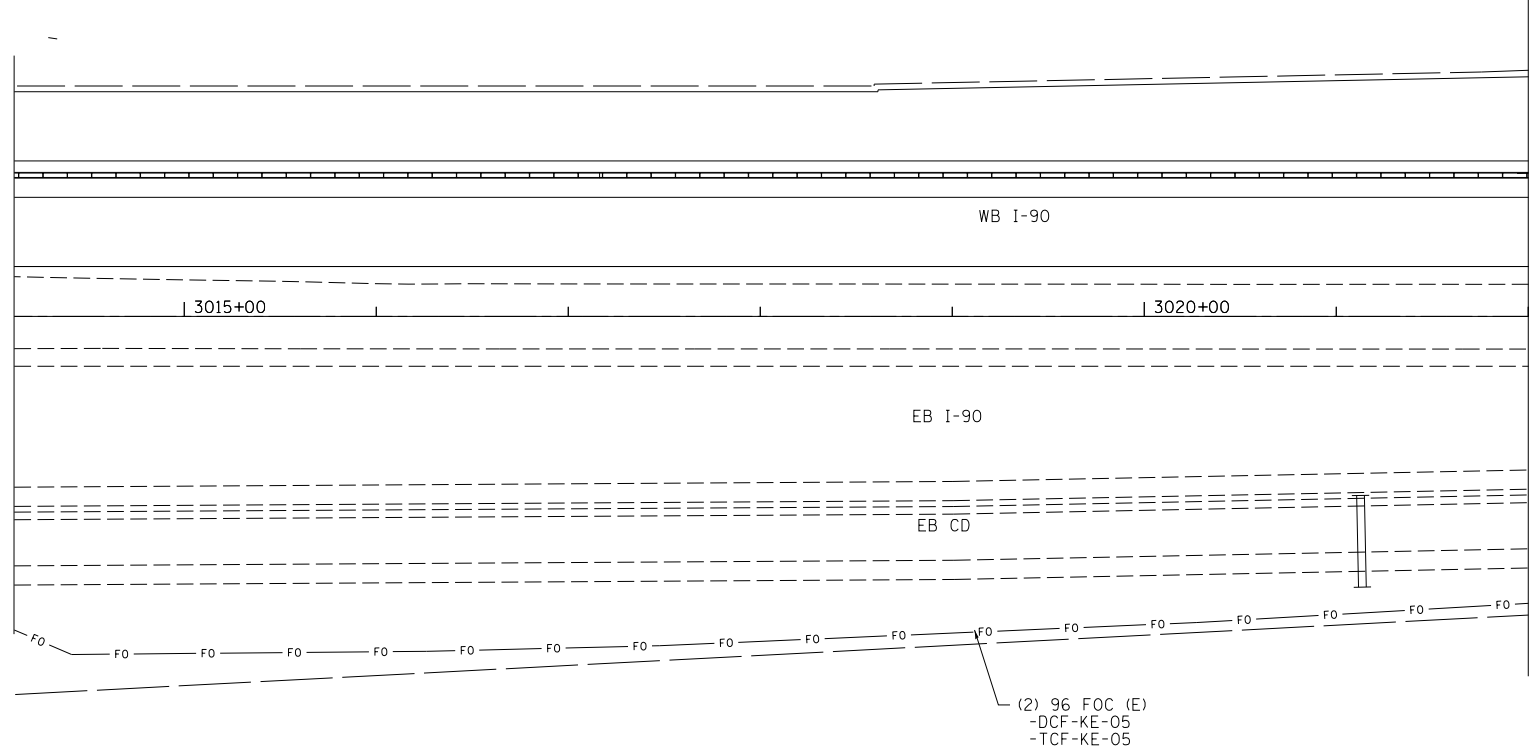
MATCHLINE  
STA. 3022+00  
ITS-09



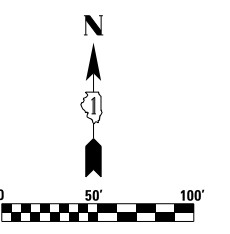
**CONDUIT PLAN VIEW**

MATCHLINE  
STA. 3014+00  
ITS-07

MATCHLINE  
STA. 3022+00  
ITS-09



**CABLE PLAN VIEW**



USER NAME = jblakley	DESIGNED RJ	REVISED -
	DRAWN RJ	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/15/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

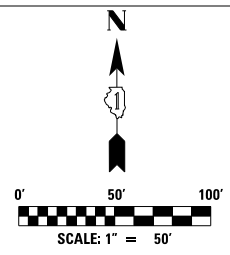
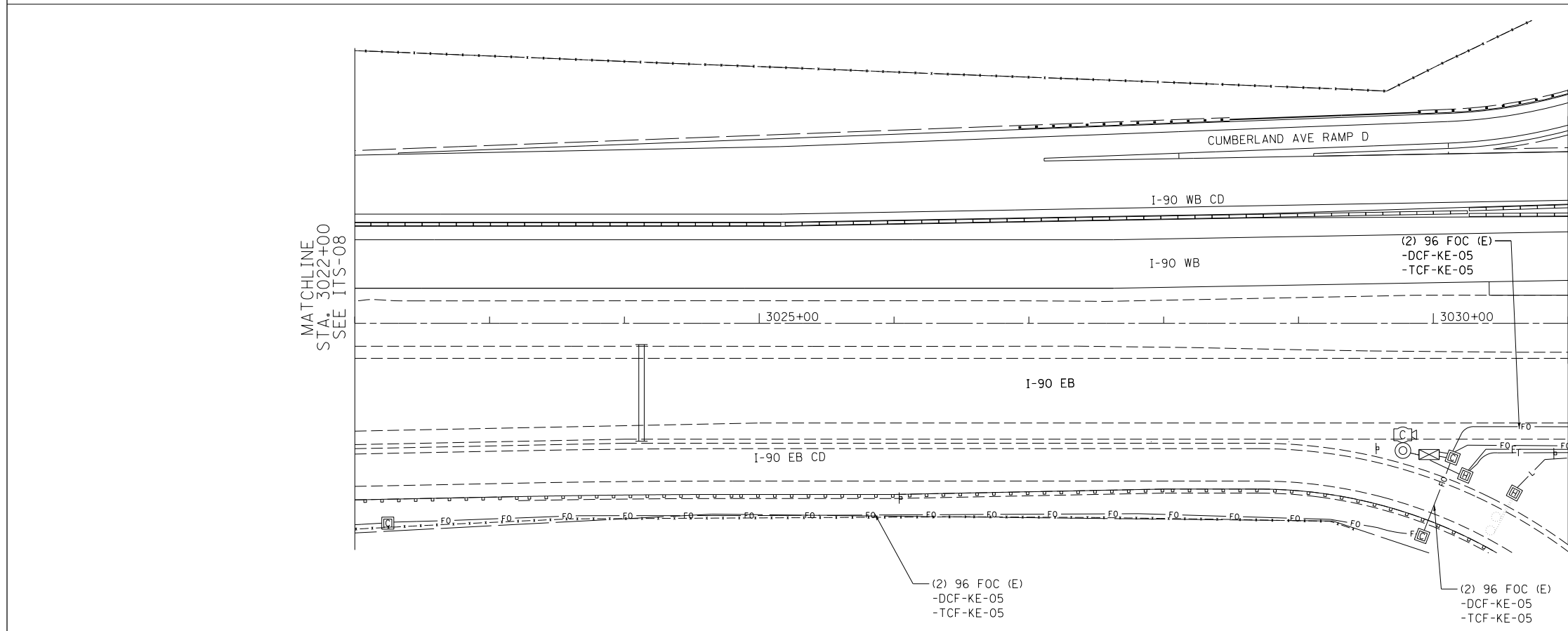
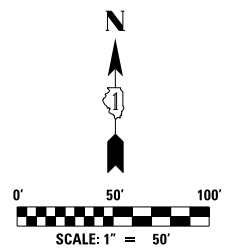
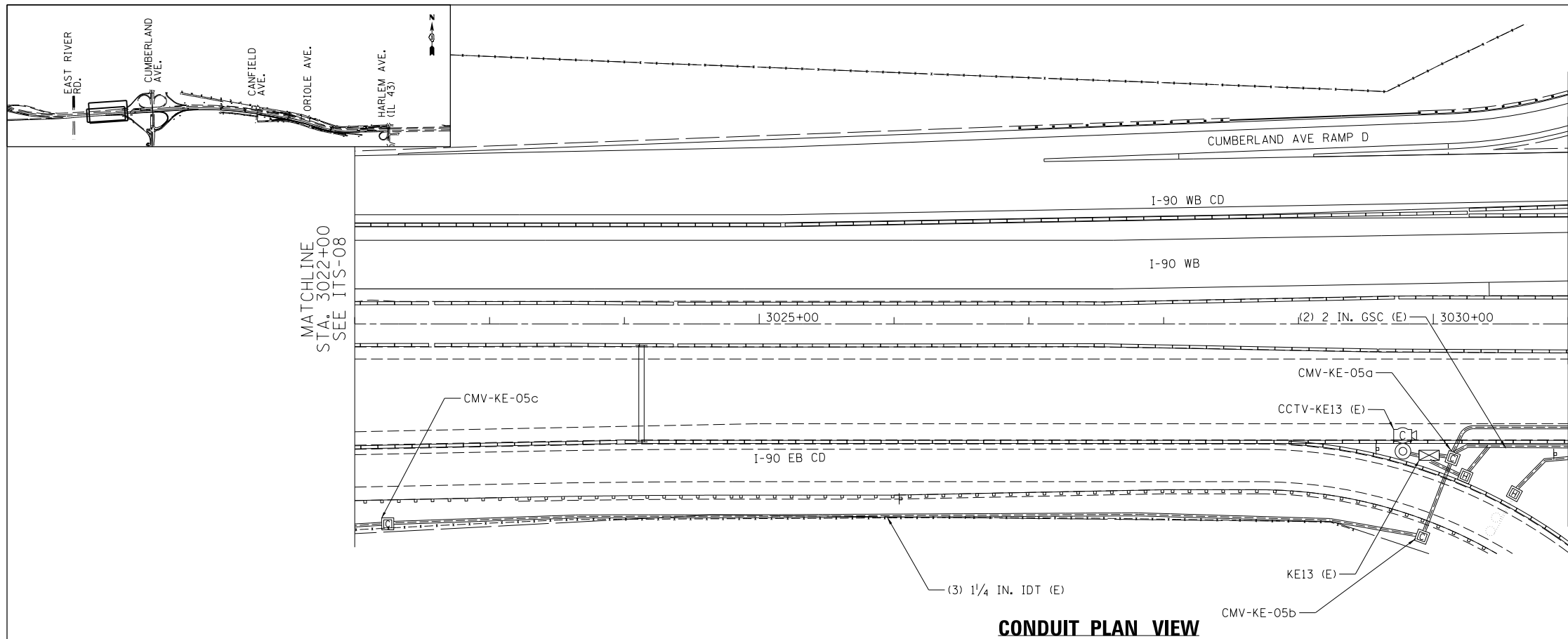
**WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1" = 50' SHEET NO. 4 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	380
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60Y39	

**ITS-08**





USER NAME = jbakley	DESIGNED RJ	REVISED -
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PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

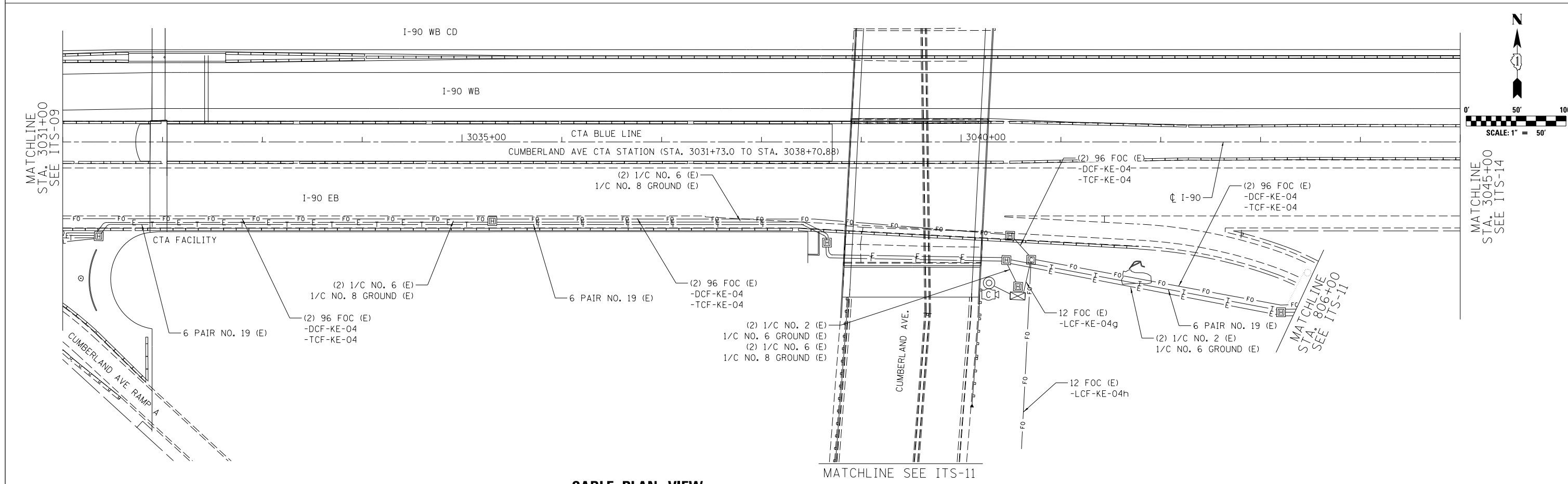
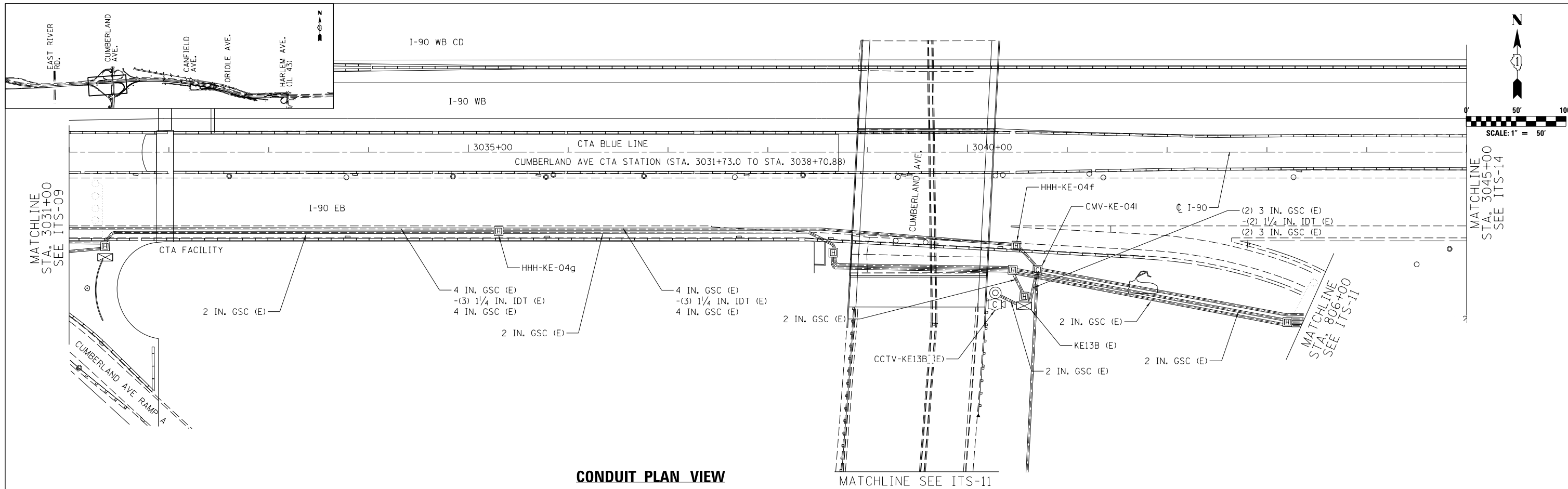
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

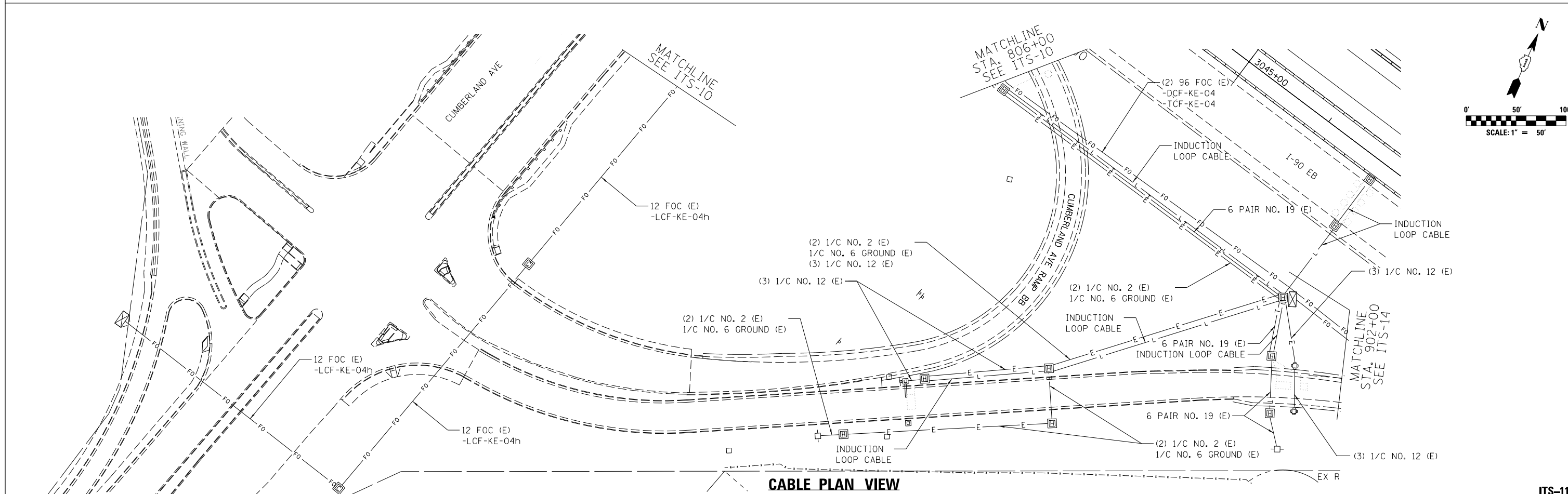
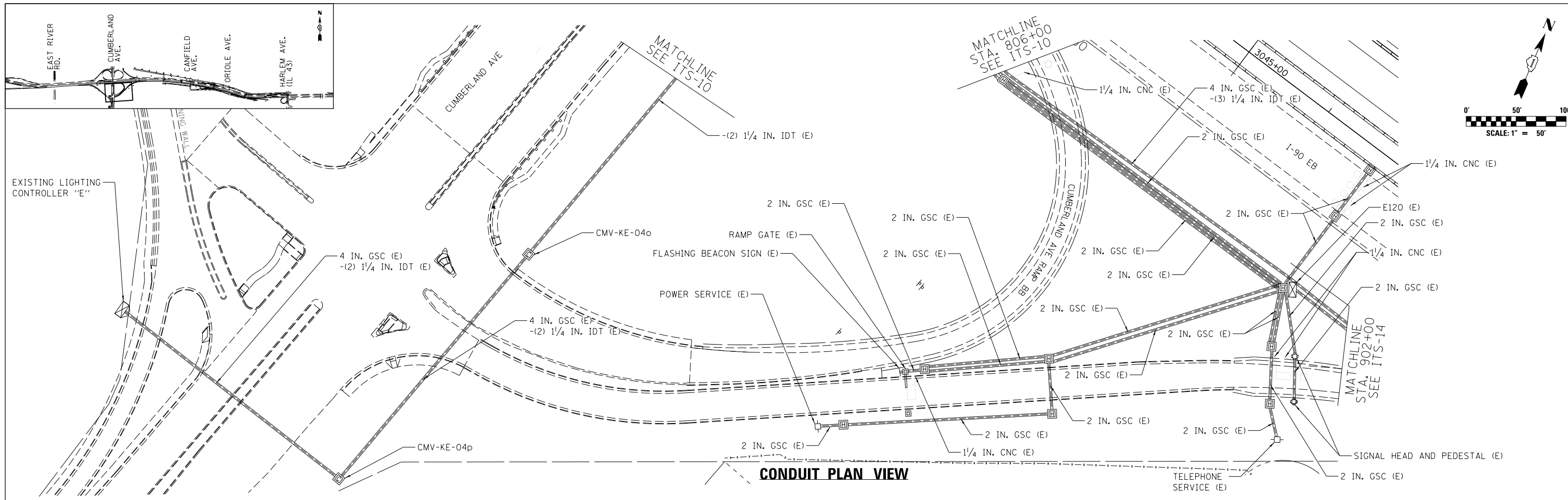
WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS

SCALE: 1" = 50' SHEET NO. 5 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	381
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

ITS-09





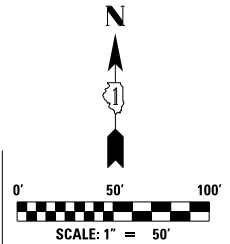
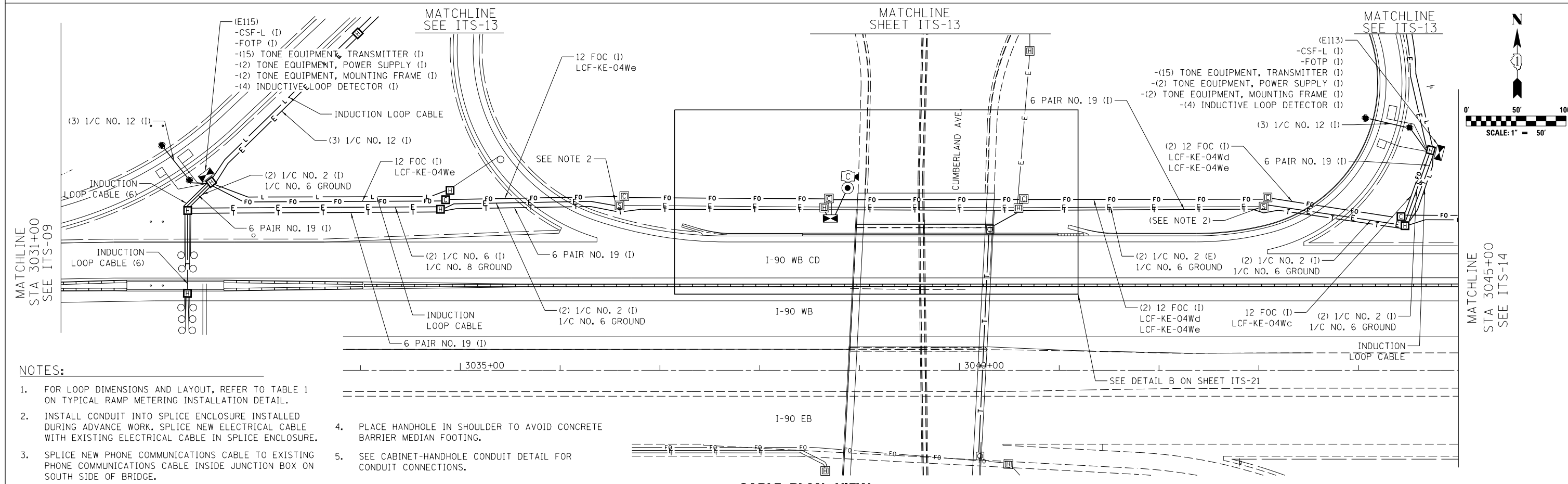
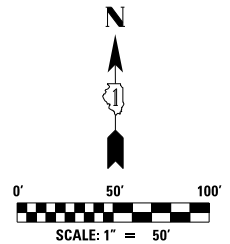
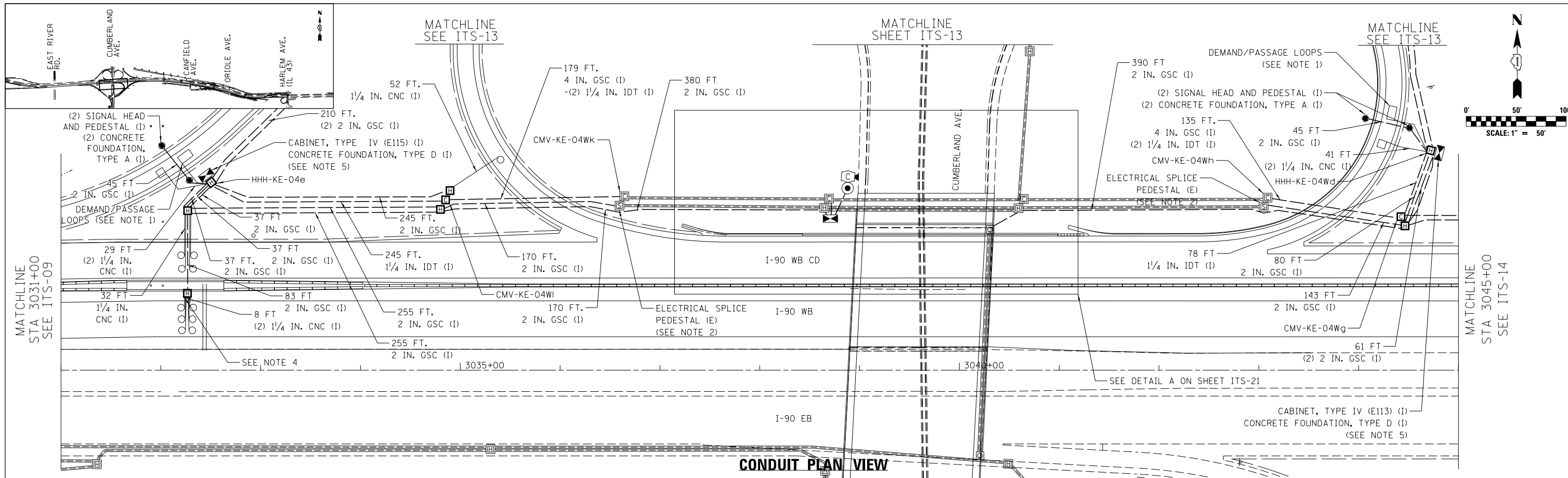
USER NAME = jblakley	DESIGNED RJ	REVISED -
	DRAWN RJ	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 7 OF 16 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 383
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60Y39



- NOTES:**
- FOR LOOP DIMENSIONS AND LAYOUT, REFER TO TABLE 1 ON TYPICAL RAMP METERING INSTALLATION DETAIL.
  - INSTALL CONDUIT INTO SPLICE ENCLOSURE INSTALLED DURING ADVANCE WORK. SPLICE NEW ELECTRICAL CABLE WITH EXISTING ELECTRICAL CABLE IN SPLICE ENCLOSURE.
  - SPLICE NEW PHONE COMMUNICATIONS CABLE TO EXISTING PHONE COMMUNICATIONS CABLE INSIDE JUNCTION BOX ON SOUTH SIDE OF BRIDGE.
  - PLACE HANDHOLE IN SHOULDER TO AVOID CONCRETE BARRIER MEDIAN FOOTING.
  - SEE CABINET-HANDHOLE CONDUIT DETAIL FOR CONDUIT CONNECTIONS.



USER NAME = jbakley	DESIGNED RJ	REVISED - -
PLOT SCALE = 1:8000 / in.	DRAWN RJ	REVISED -
PLOT DATE = 6/14/2017	CHECKED YJ	REVISED -
	DATE 06/28/2017	REVISED -

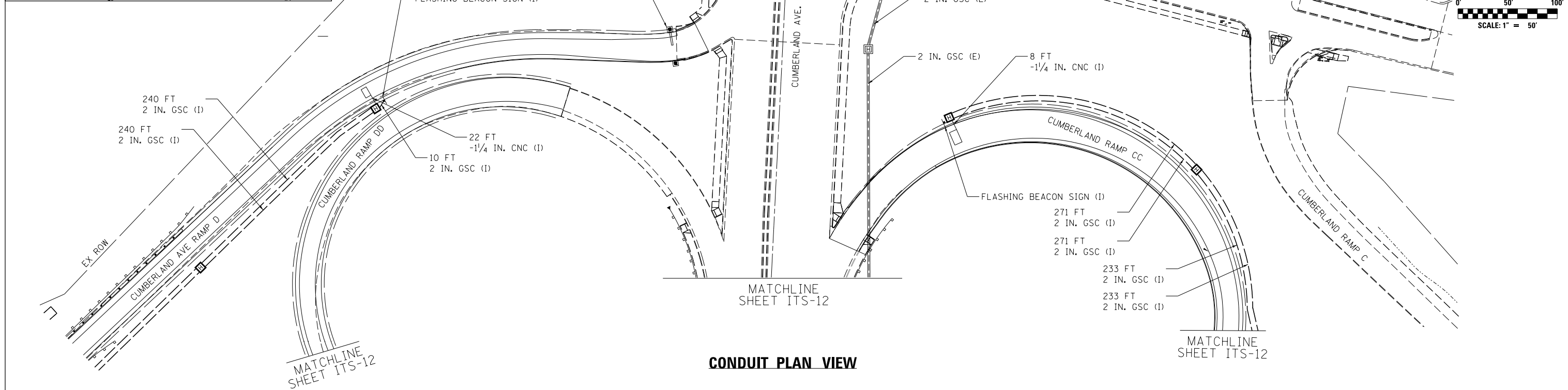
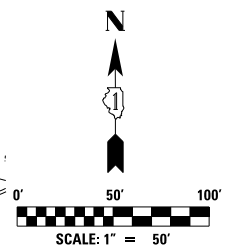
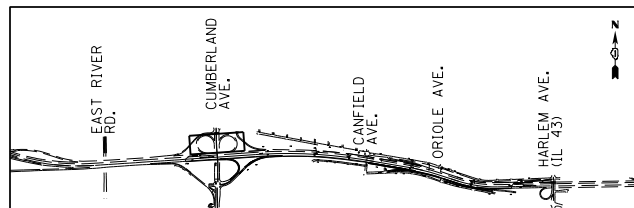
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 8 OF 16 SHEETS STA. TO STA.

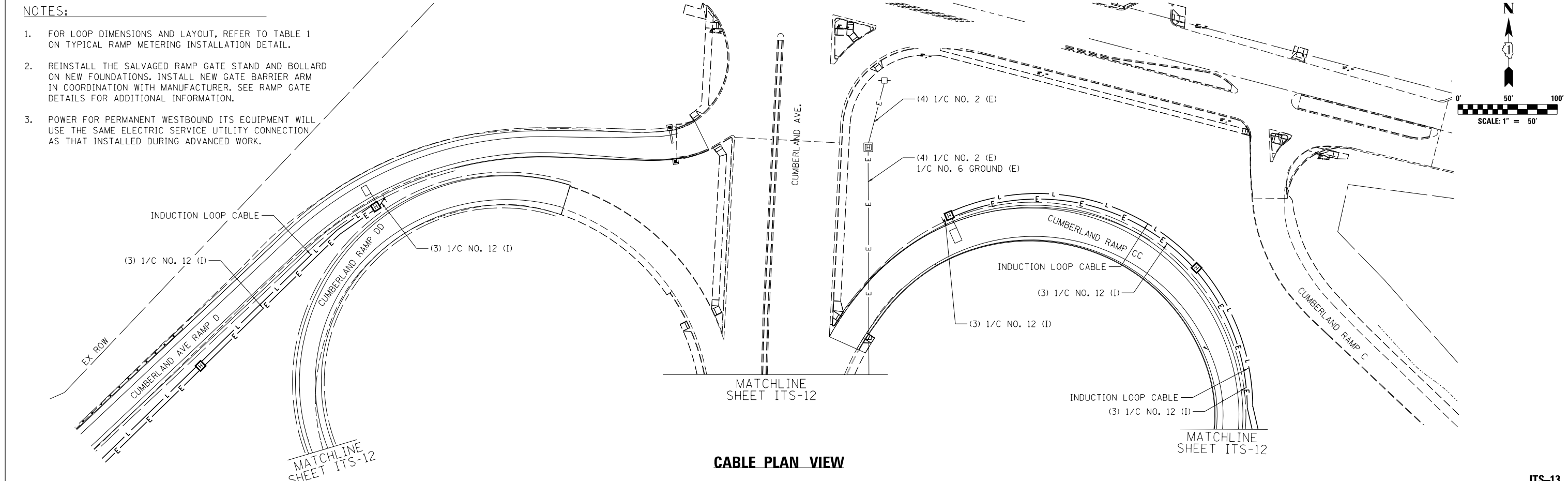
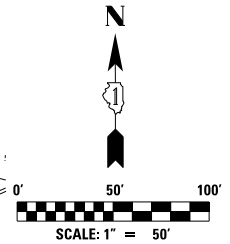
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	384
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

FILE NAME = D168Y39-shs-ITS-12.dgn



**CONDUIT PLAN VIEW**

- NOTES:**
- FOR LOOP DIMENSIONS AND LAYOUT, REFER TO TABLE 1 ON TYPICAL RAMP METERING INSTALLATION DETAIL.
  - REINSTALL THE SALVAGED RAMP GATE STAND AND BOLLARD ON NEW FOUNDATIONS. INSTALL NEW GATE BARRIER ARM IN COORDINATION WITH MANUFACTURER. SEE RAMP GATE DETAILS FOR ADDITIONAL INFORMATION.
  - POWER FOR PERMANENT WESTBOUND ITS EQUIPMENT WILL USE THE SAME ELECTRIC SERVICE UTILITY CONNECTION AS THAT INSTALLED DURING ADVANCED WORK.



**CABLE PLAN VIEW**



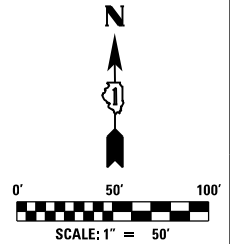
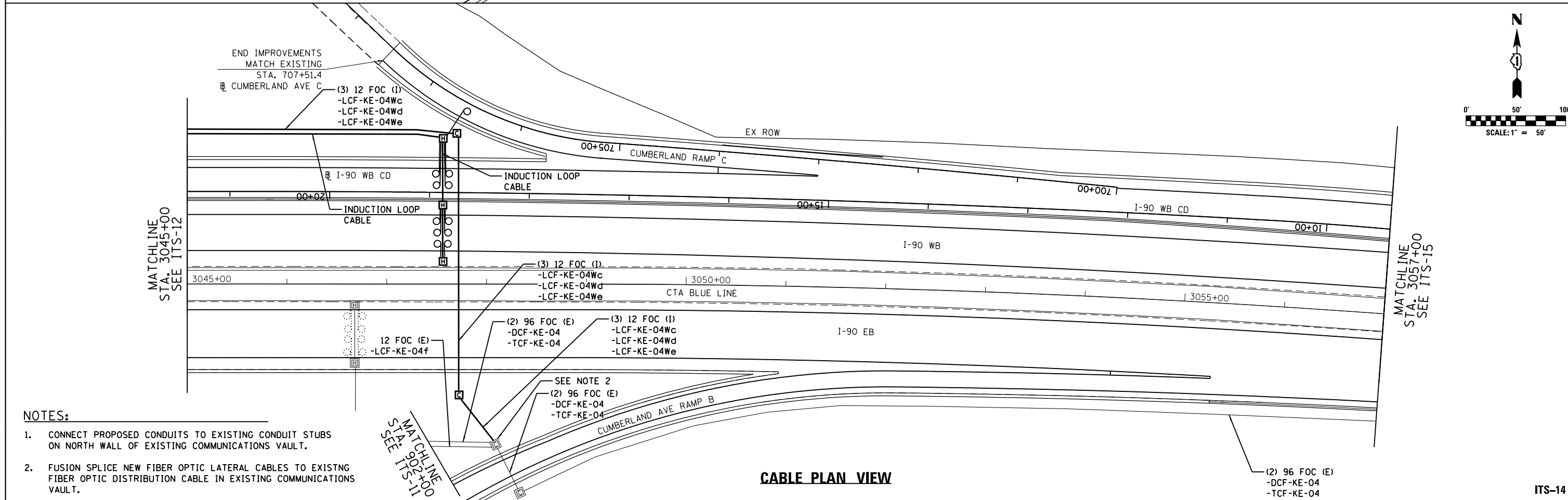
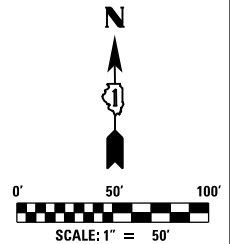
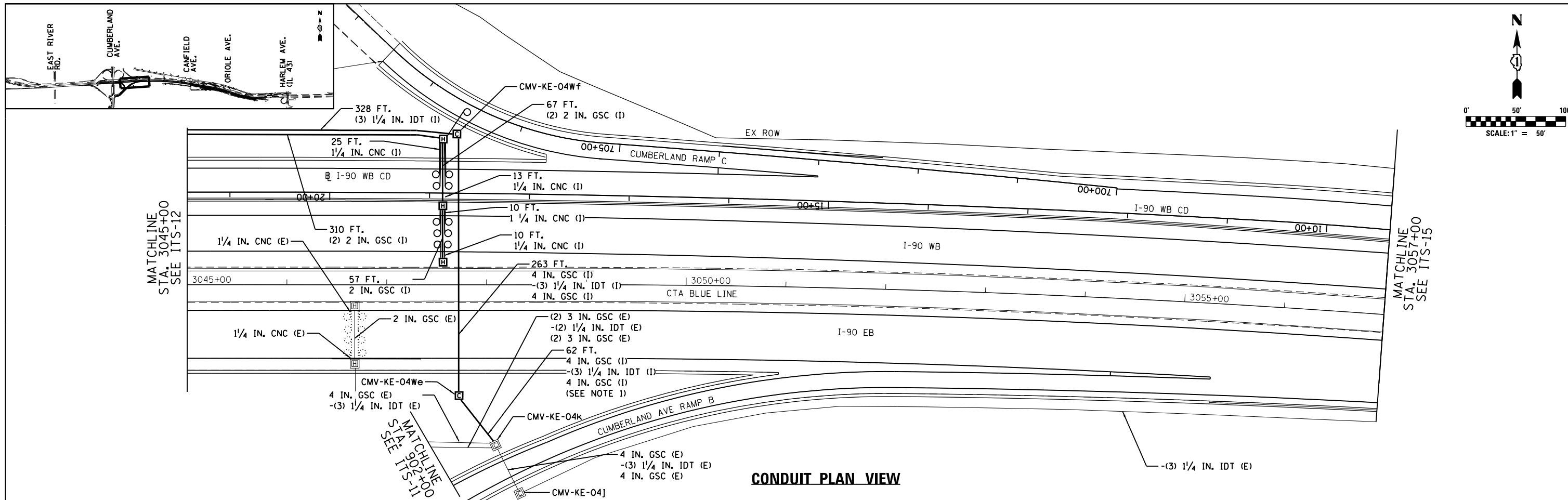
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PLOT SCALE = 1:8000' / in.	DRAWN RJ	REVISED -
PLOT DATE = 6/14/2017	CHECKED YJ	REVISED -
	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 9 OF 16 SHEETS STA. TO STA.

F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 385
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				



- NOTES:**
- CONNECT PROPOSED CONDUITS TO EXISTING CONDUIT STUBS ON NORTH WALL OF EXISTING COMMUNICATIONS VAULT.
  - FUSION SPLICE NEW FIBER OPTIC LATERAL CABLES TO EXISTING FIBER OPTIC DISTRIBUTION CABLE IN EXISTING COMMUNICATIONS VAULT.



USER NAME = #USER*	DESIGNED RJ	REVISED -
PLOT SCALE = #SCALE*	DRAWN RJ	REVISED -
PLOT DATE = #DATE*	CHECKED YJ	REVISED -
	DATE 01/19/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

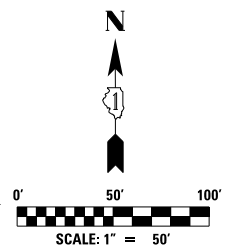
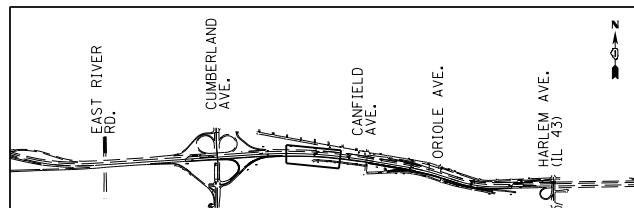
WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	386
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

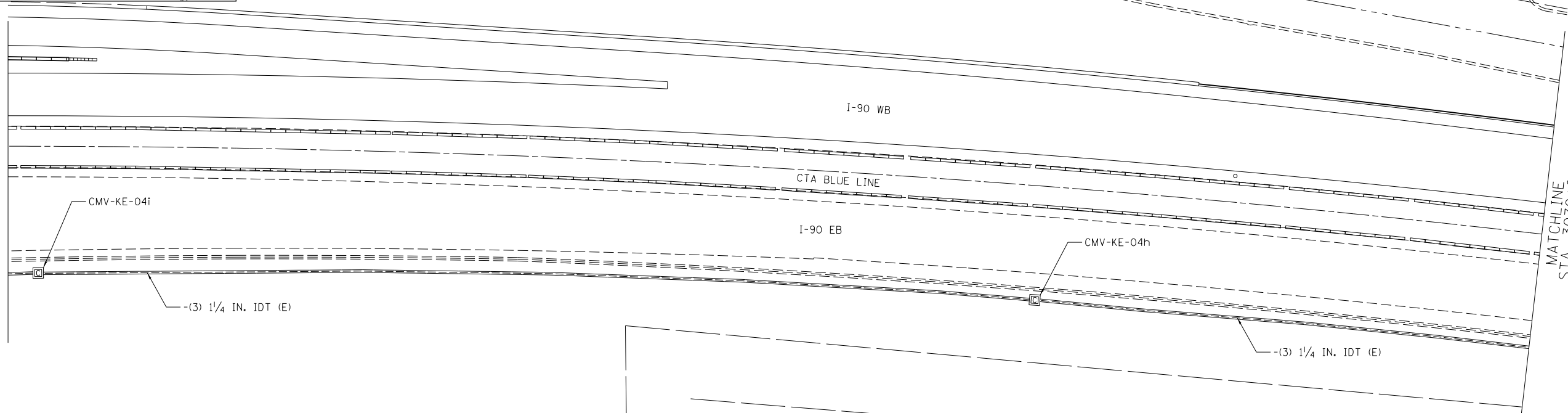
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SCALE: 1"=50' SHEET NO. 10 OF 16 SHEETS STA. TO STA.

ITS-14



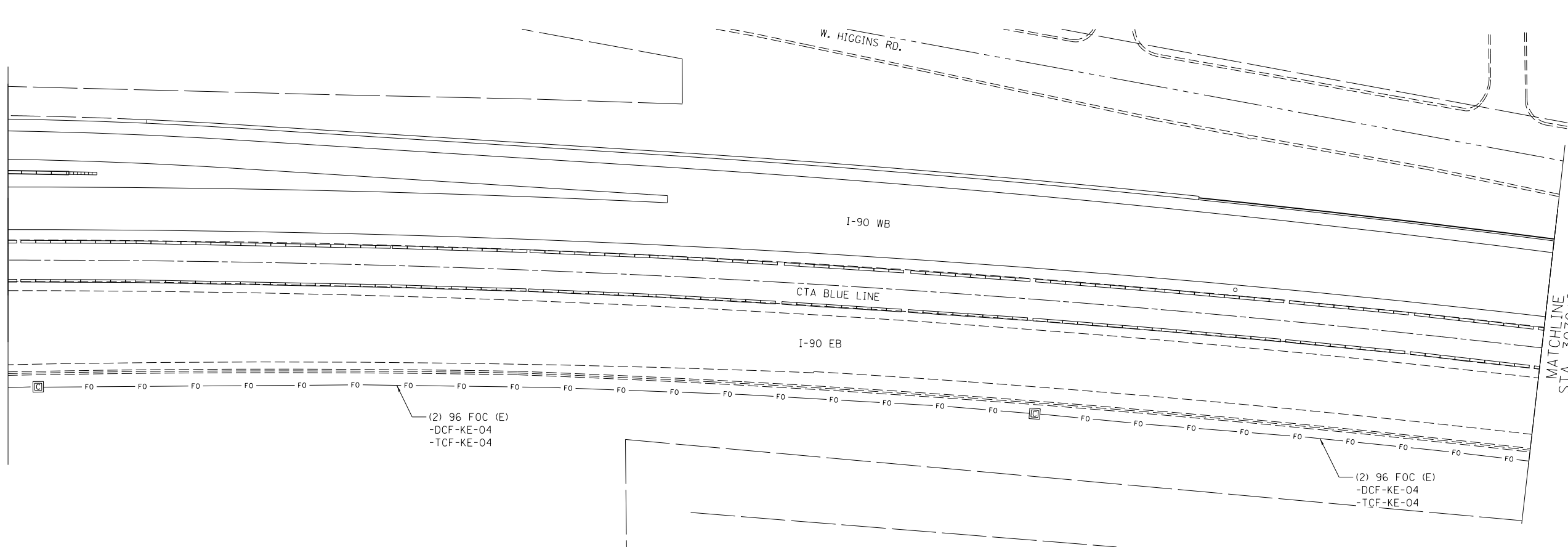
MATCHLINE  
STA. 3057+00  
SEE ITS-14



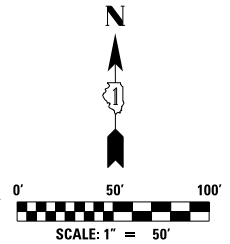
**CONDUIT PLAN VIEW**

MATCHLINE  
STA. 3070+00  
SEE ITS-16

MATCHLINE  
STA. 3057+00  
SEE ITS-14



**CABLE PLAN VIEW**



MATCHLINE  
STA. 3070+00  
SEE ITS-16



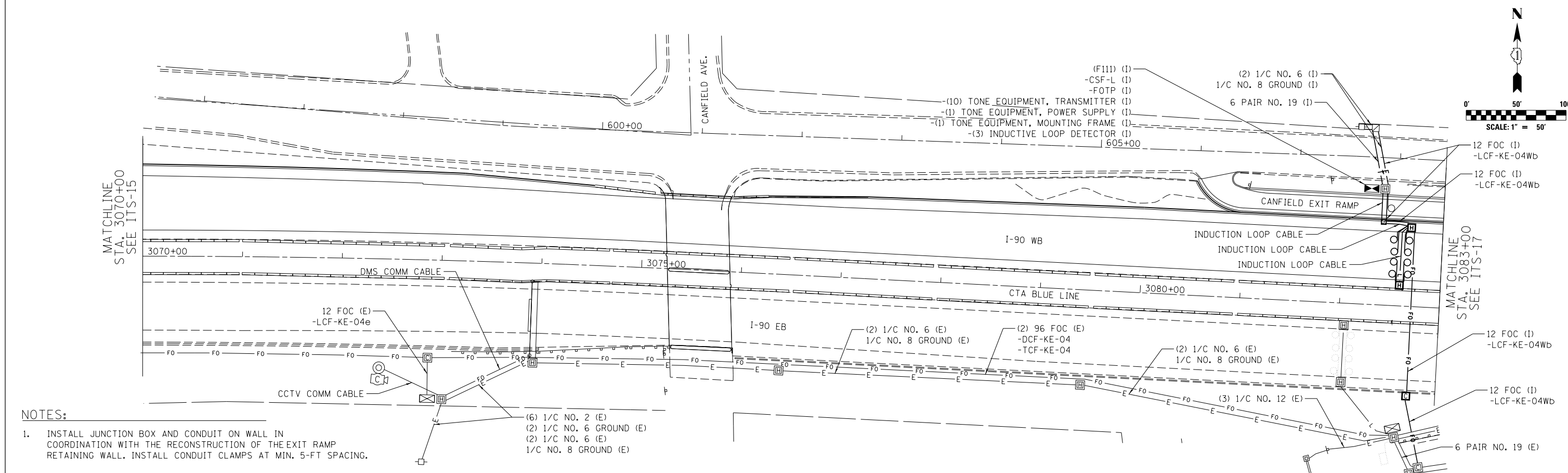
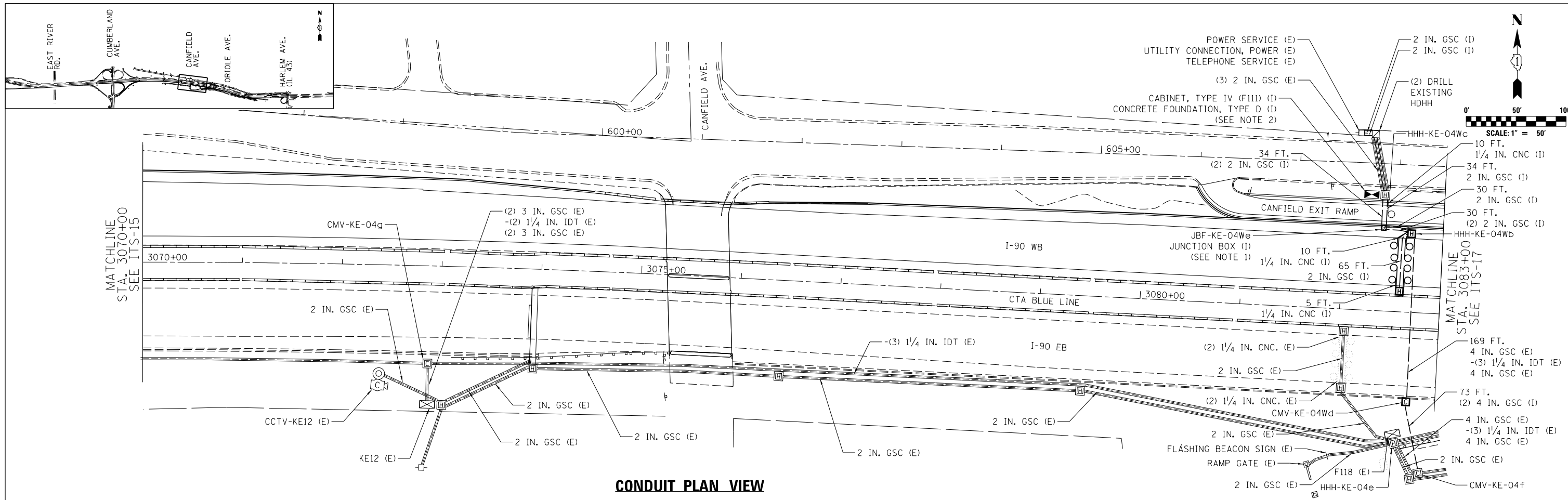
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	DRAWN RJ	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WESTBOUND I-90 FROM HARLEM AVE TO I-90 INTERSTATE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 11 OF 16 SHEETS STA. TO STA.

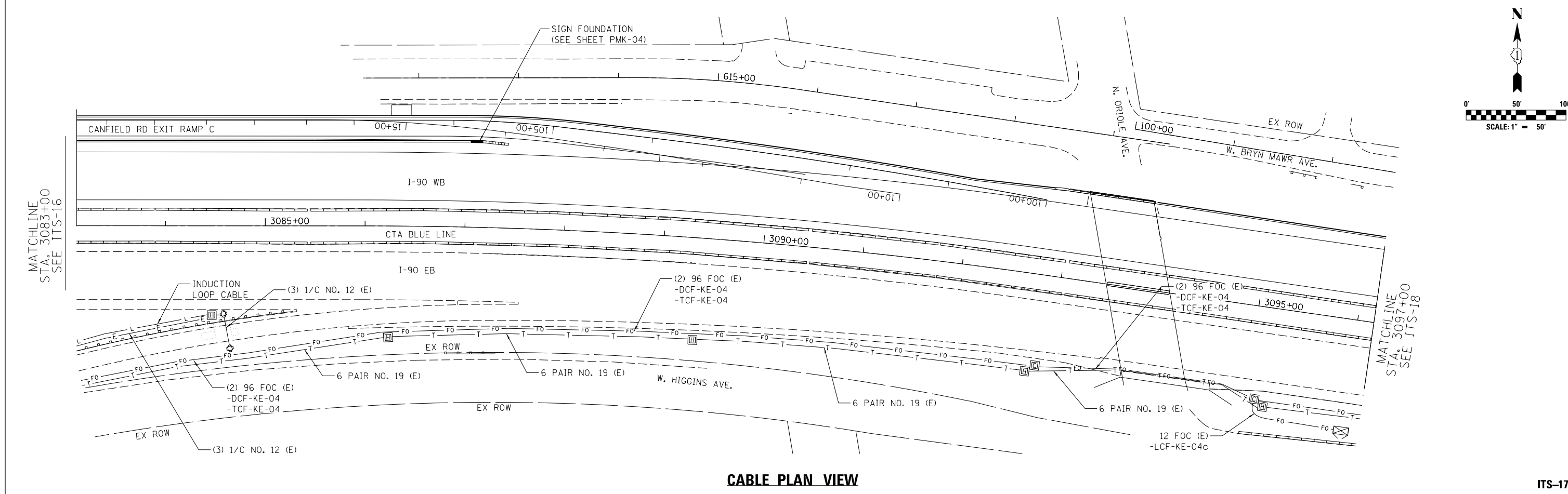
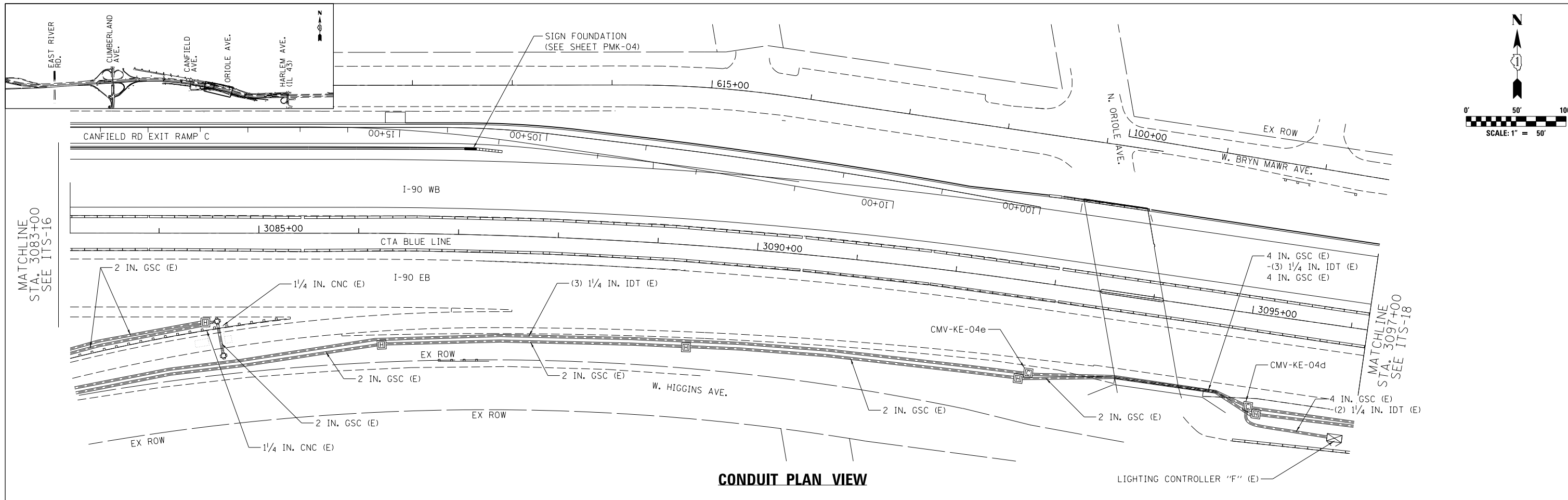
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	387
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- INSTALL JUNCTION BOX AND CONDUIT ON WALL IN COORDINATION WITH THE RECONSTRUCTION OF THE EXIT RAMP RETAINING WALL. INSTALL CONDUIT CLAMPS AT MIN. 5-FT SPACING.
  - SEE CABINET-HANDHOLE CONDUIT DETAIL FOR CONDUIT CONNECTIONS.

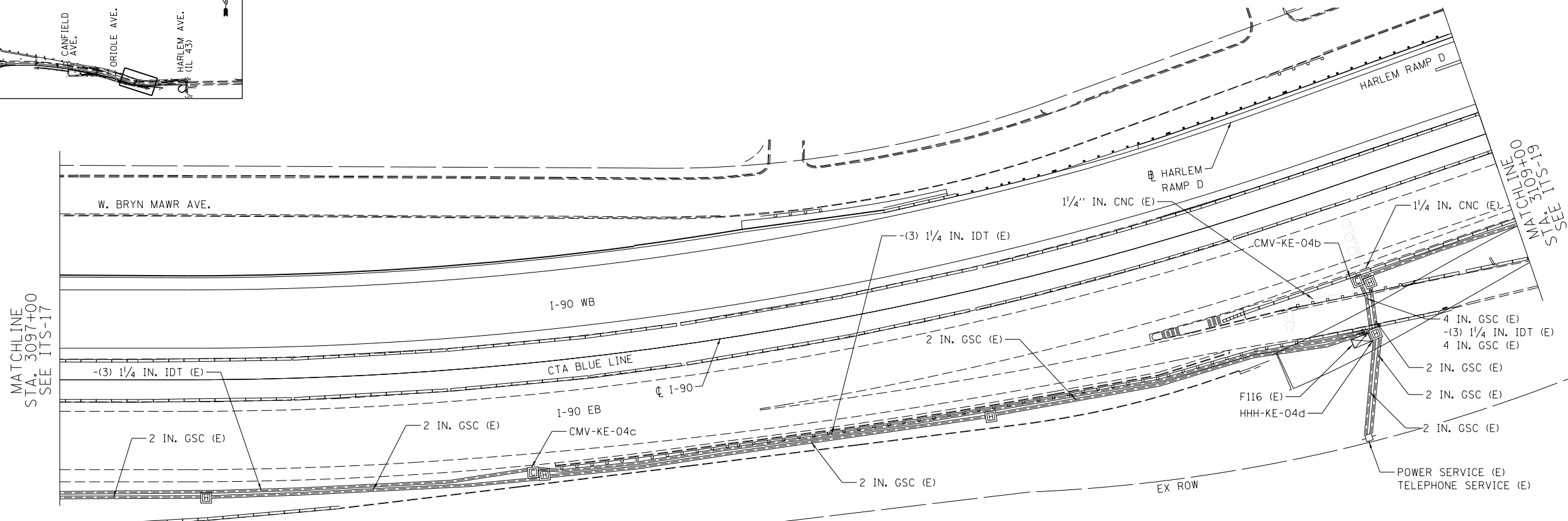
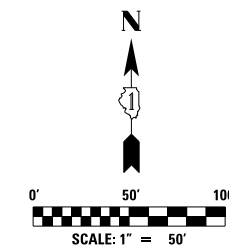
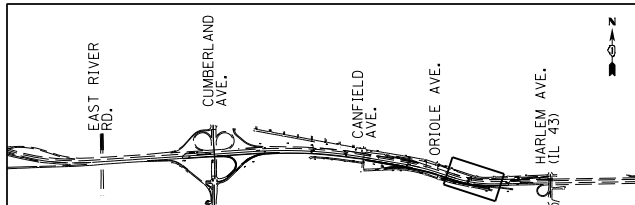
<b>HNTB</b>	USER NAME = jbakley	DESIGNED RJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE ITS PROPOSED CONDUIT AND CABLE PLANS</b>			F.A.I. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 388
	PLOT SCALE = 1:8000' / in.	CHECKED YJ	REVISED -		SCALE: 1"=50'	SHEET NO. 12 OF 16 SHEETS	STA. TO STA.	CONTRACT NO. 60Y39				
	PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -		ILLINOIS FED. AID PROJECT							



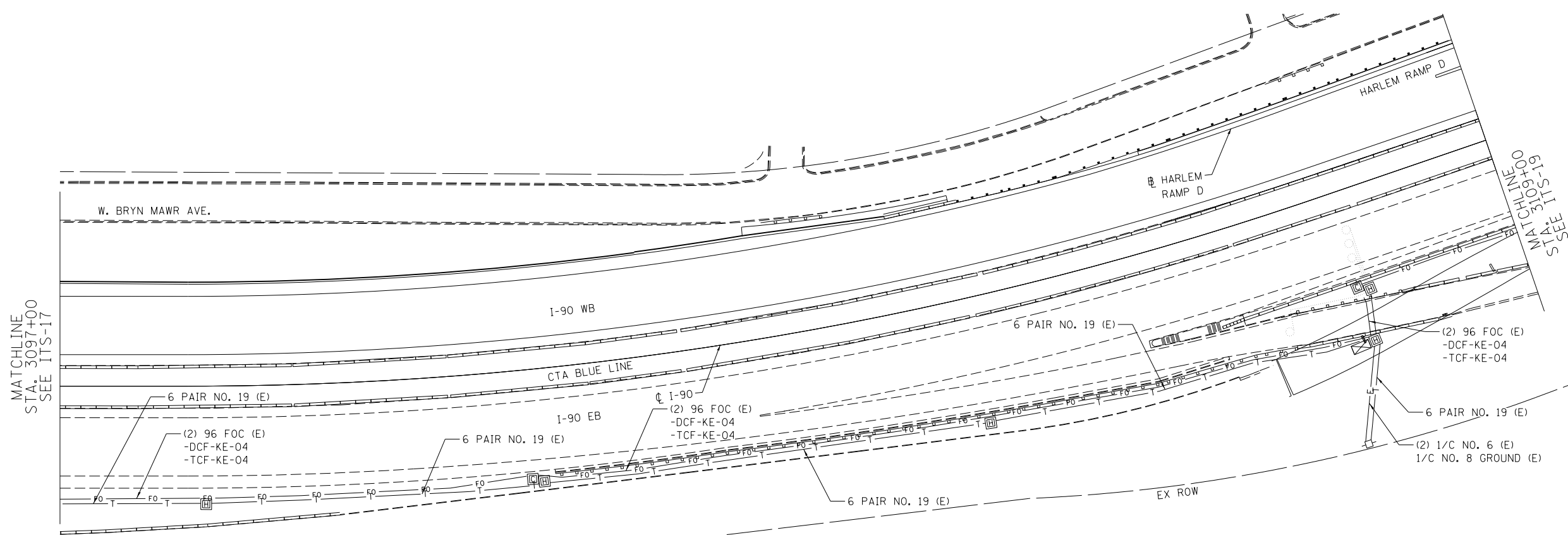


	USER NAME = jblakley	DESIGNED RJ	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE</b> <b>ITS PROPOSED CONDUIT AND CABLE PLANS</b>	F.A.I. R.T.E. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 389
	PLOT SCALE = 1:8000' / in.	CHECKED YJ	REVISED -			SCALE: 1"=50'	SHEET NO. 13 OF 16 SHEETS	STA. TO STA.	CONTRACT NO. 60Y39	
	PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -					ILLINOIS FED. AID PROJECT		

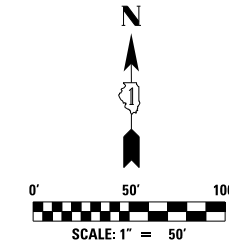
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**CONDUIT PLAN VIEW**



**CABLE PLAN VIEW**



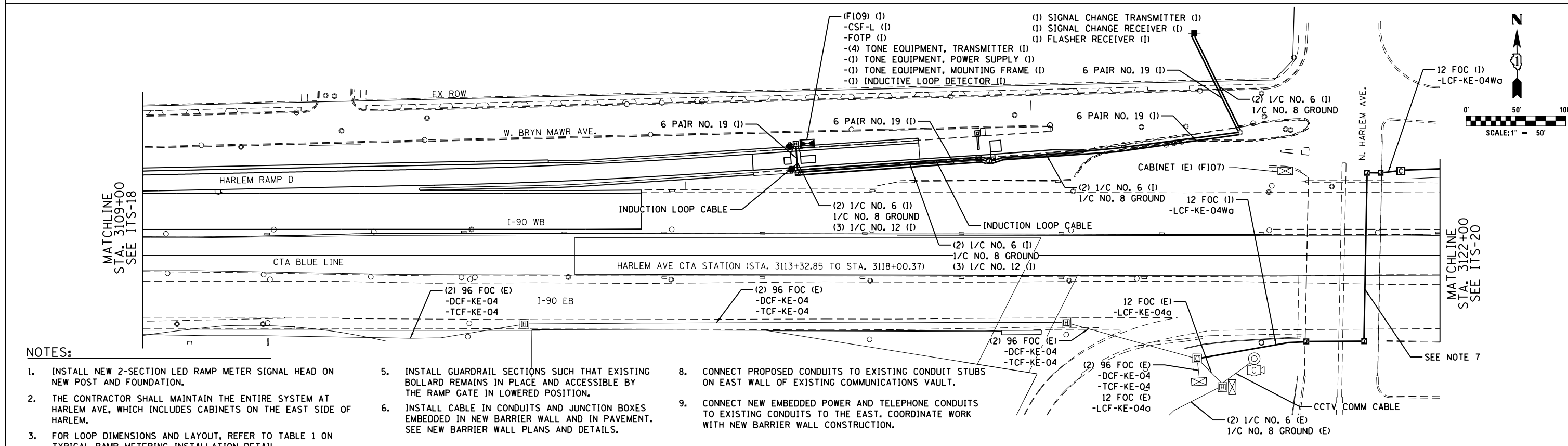
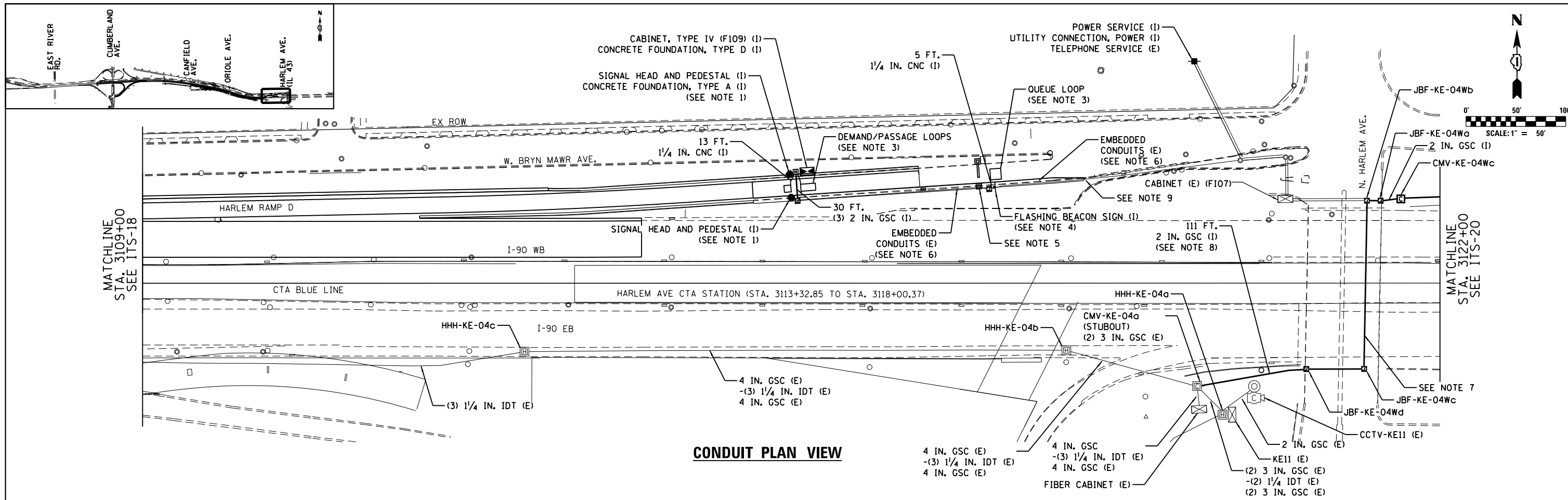
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PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WESTBOUND I-90 FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

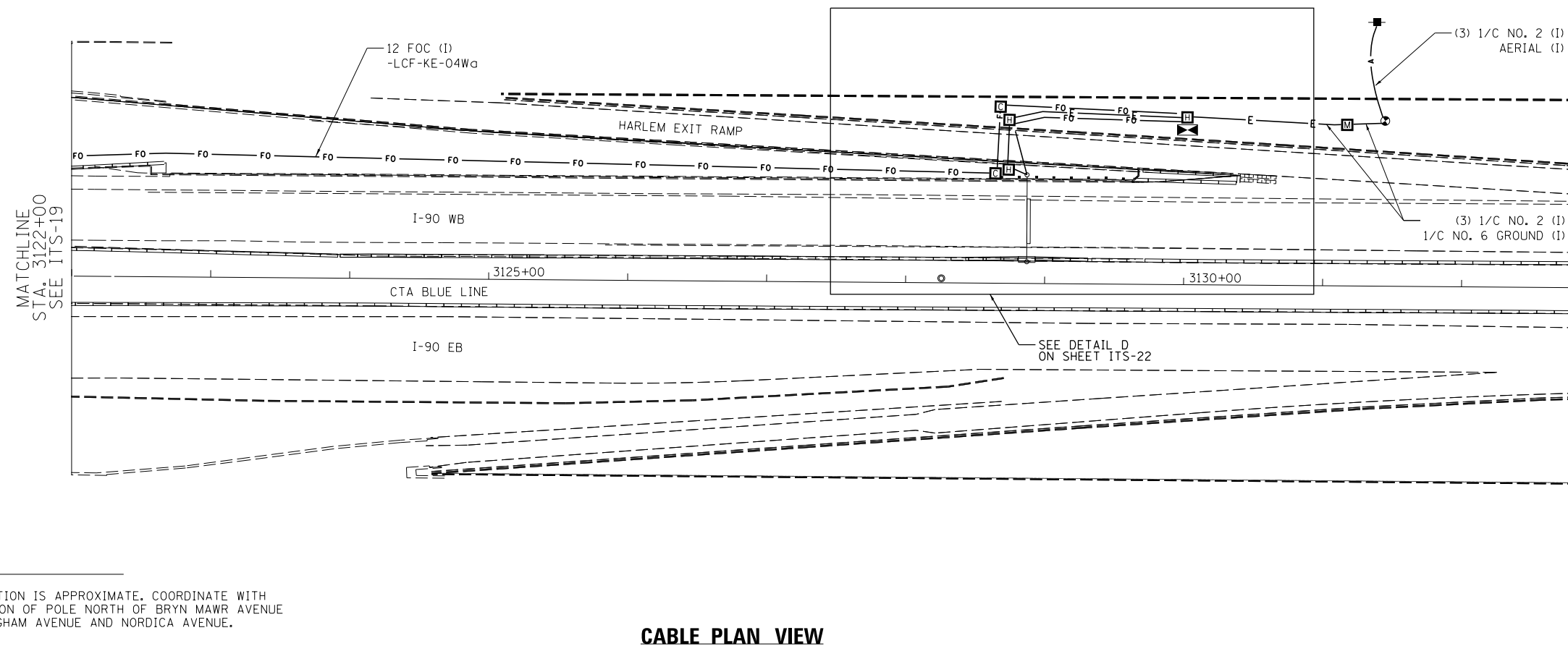
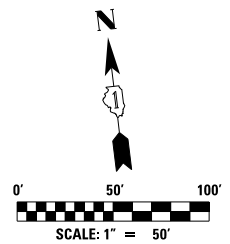
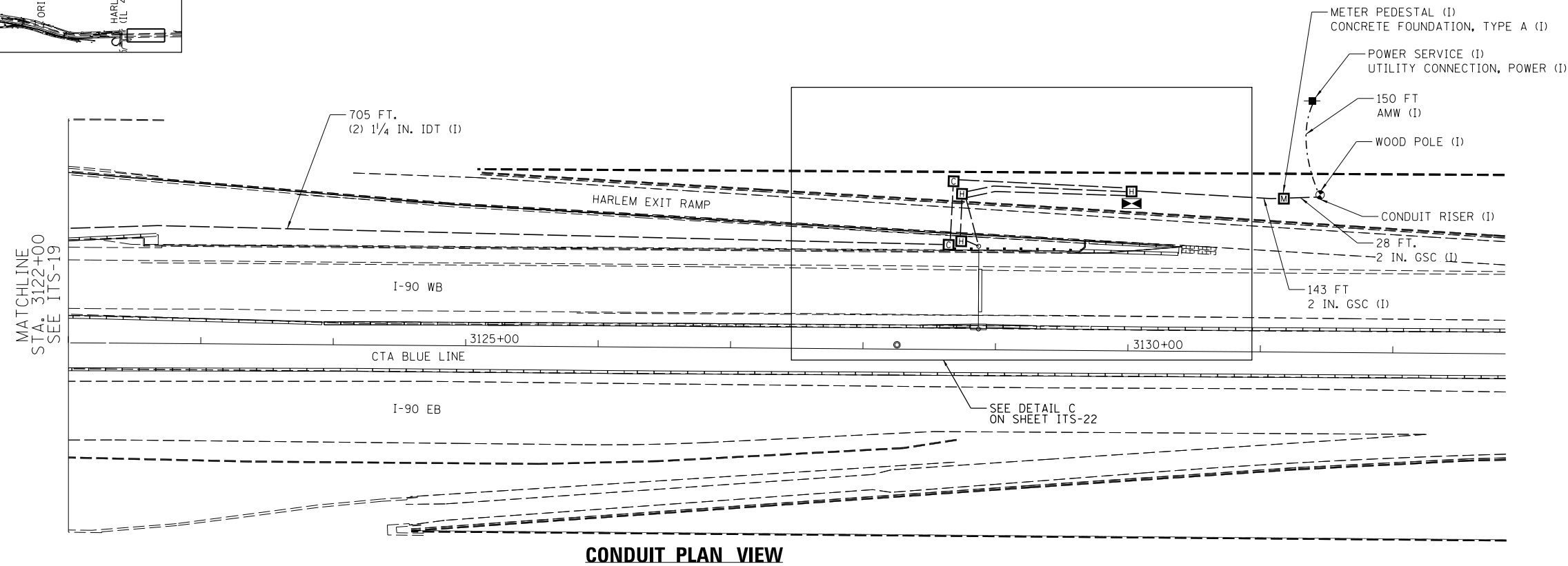
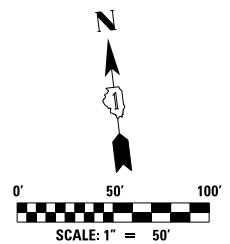
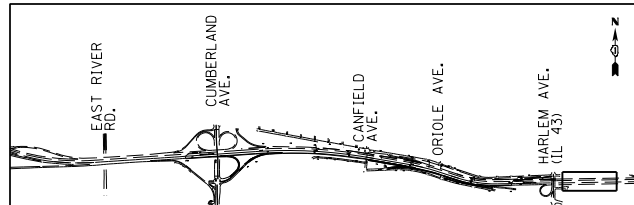
SCALE: 1"=50' SHEET NO. 14 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	390
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- INSTALL NEW 2-SECTION LED RAMP METER SIGNAL HEAD ON NEW POST AND FOUNDATION.
  - THE CONTRACTOR SHALL MAINTAIN THE ENTIRE SYSTEM AT HARLEM AVE, WHICH INCLUDES CABINETS ON THE EAST SIDE OF HARLEM.
  - FOR LOOP DIMENSIONS AND LAYOUT, REFER TO TABLE 1 ON TYPICAL RAMP METERING INSTALLATION DETAIL.
  - INSTALL NEW LED FLASHER SIGN IN PAVEMENT BEHIND GUARDRAIL. REFER TO FLASHER DETAIL ON SHEET ITS-52.
  - INSTALL GUARDRAIL SECTIONS SUCH THAT EXISTING BOLLARD REMAINS IN PLACE AND ACCESSIBLE BY THE RAMP GATE IN LOWERED POSITION.
  - INSTALL CABLE IN CONDUITS AND JUNCTION BOXES EMBEDDED IN NEW BARRIER WALL AND IN PAVEMENT. SEE NEW BARRIER WALL PLANS AND DETAILS.
  - SEE CONDUIT ROUTING AT HARLEM AVE BRIDGE DETAIL SHEET ITS-23 FOR ADDITIONAL INFORMATION ON JUNCTION BOXES, CONDUITS AND CABLE INSTALLED ON EXISTING BRIDGE STRUCTURE.
  - CONNECT PROPOSED CONDUITS TO EXISTING CONDUIT STUBS ON EAST WALL OF EXISTING COMMUNICATIONS VAULT.
  - CONNECT NEW EMBEDDED POWER AND TELEPHONE CONDUITS TO EXISTING CONDUITS TO THE EAST. COORDINATE WORK WITH NEW BARRIER WALL CONSTRUCTION.

**CABLE PLAN VIEW**



**NOTES:**

1. COMED UTILITY POLE LOCATION IS APPROXIMATE. COORDINATE WITH COMED FOR ACTUAL LOCATION OF POLE NORTH OF BRYN MAWR AVENUE IN ALLEY BETWEEN NOTTINGHAM AVENUE AND NORDICA AVENUE.

**CABLE PLAN VIEW**



USER NAME = jblakley	DESIGNED RJ	REVISED - -
	DRAWN RJ	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

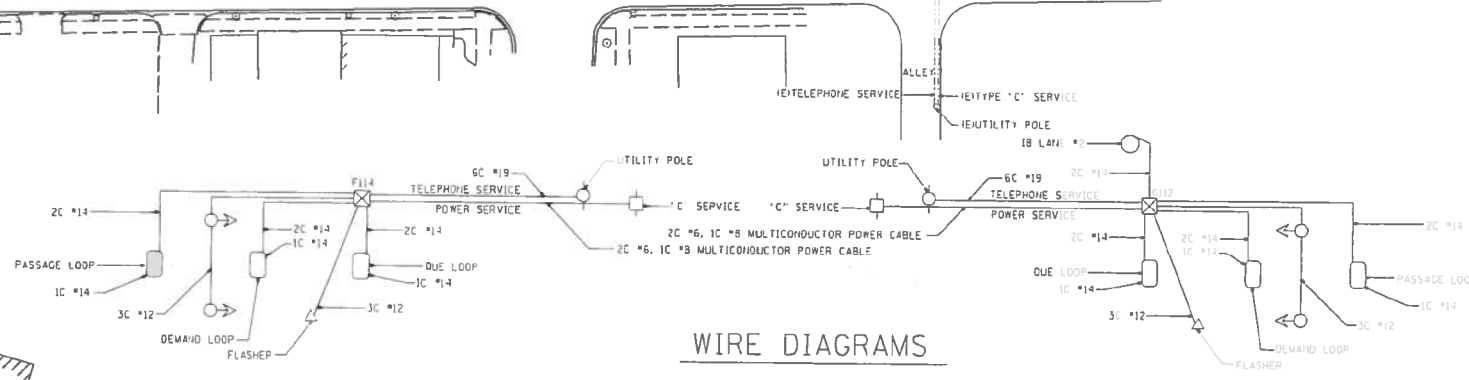
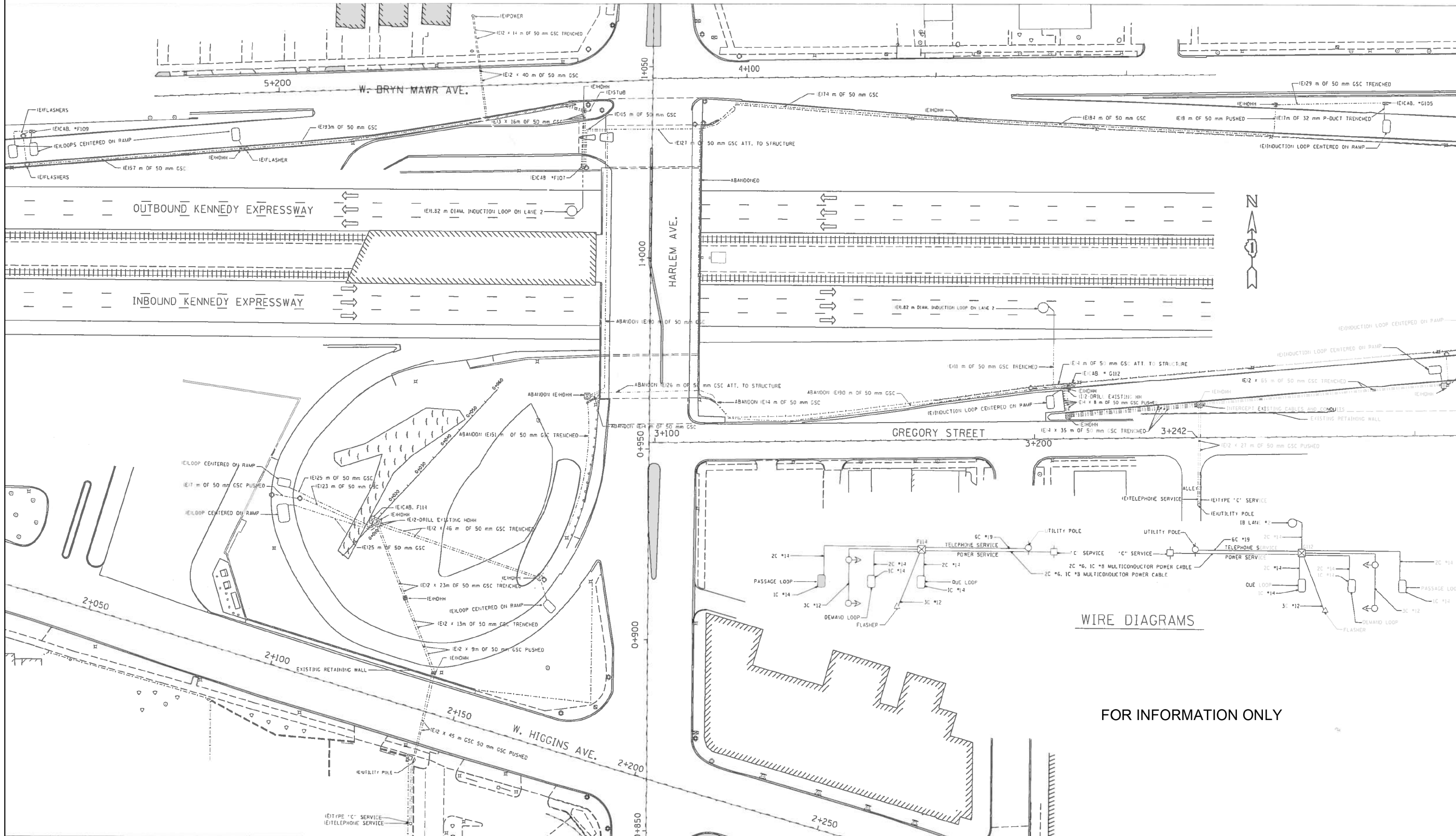
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS PROPOSED CONDUIT AND CABLE PLANS**

SCALE: 1"=50' SHEET NO. 16 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	392
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

**ITS-20**



WIRE DIAGRAMS

FOR INFORMATION ONLY



USER NAME = mksrby	DESIGNED RJ	REVISED - -
PLOT SCALE = 24,0000' / ft.	DRAWN RJ	REVISED -
PLOT DATE = 3/22/2018	CHECKED YJ	REVISED -
	DATE 01/19/2018	REVISED -

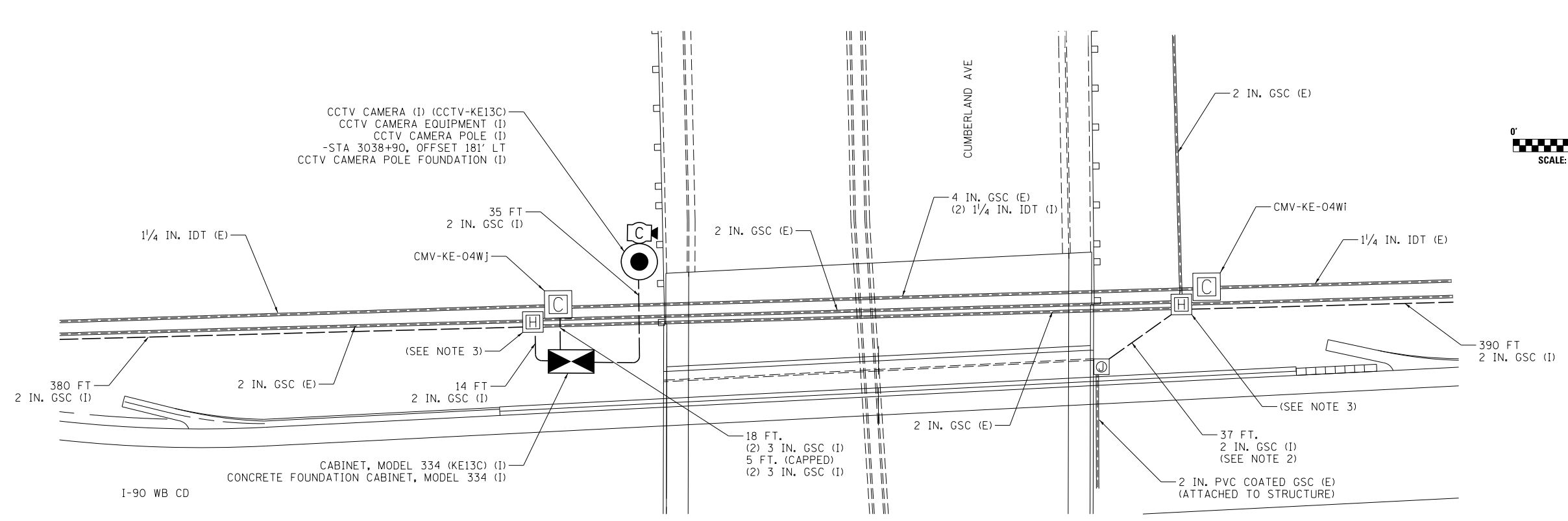
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
ITS AS-BUILT - WEST OF HARLEM AVE  
FOR INFORMATION ONLY

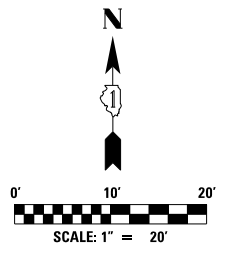
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	392A
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

ITS-20A

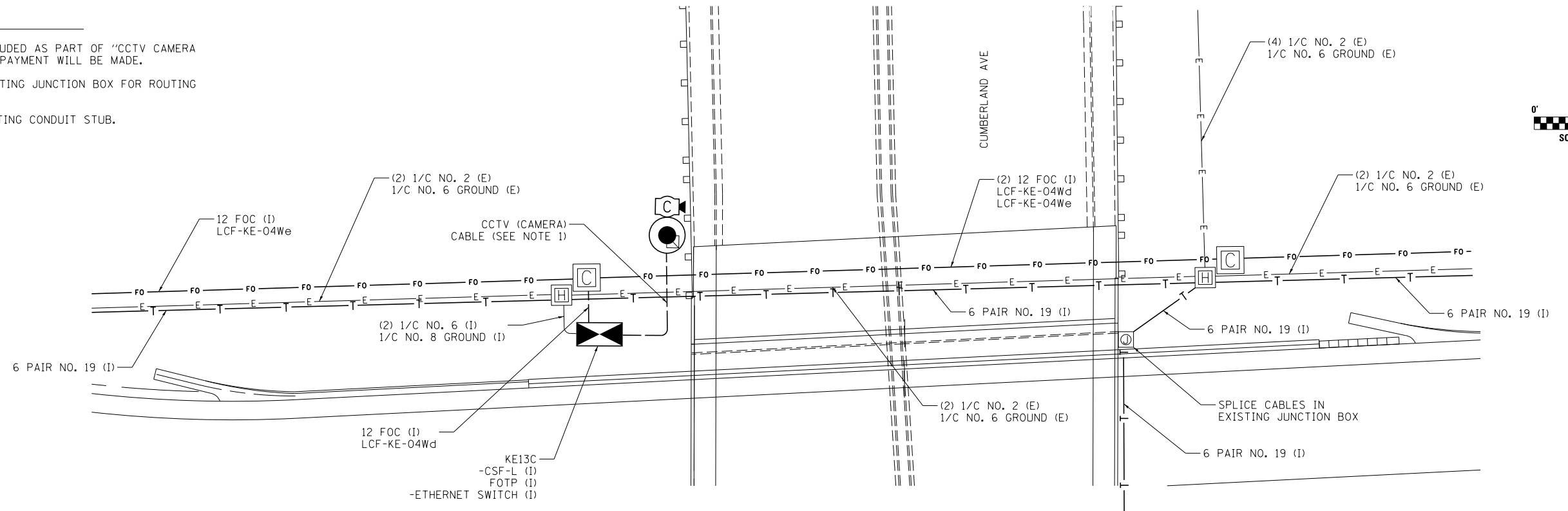


**DETAIL A**

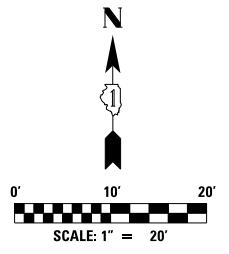


**NOTES:**

1. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
2. CONNECT NEW CONDUIT TO EXISTING JUNCTION BOX FOR ROUTING TELEPHONE CABLE.
3. INSTALL NEW CONDUIT TO EXISTING CONDUIT STUB.



**DETAIL B**



USER NAME = jblakley	DESIGNED RJ	REVISED - -
	DRAWN RJ	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

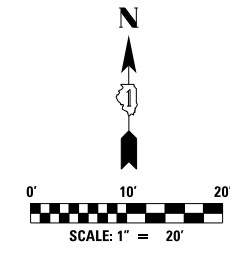
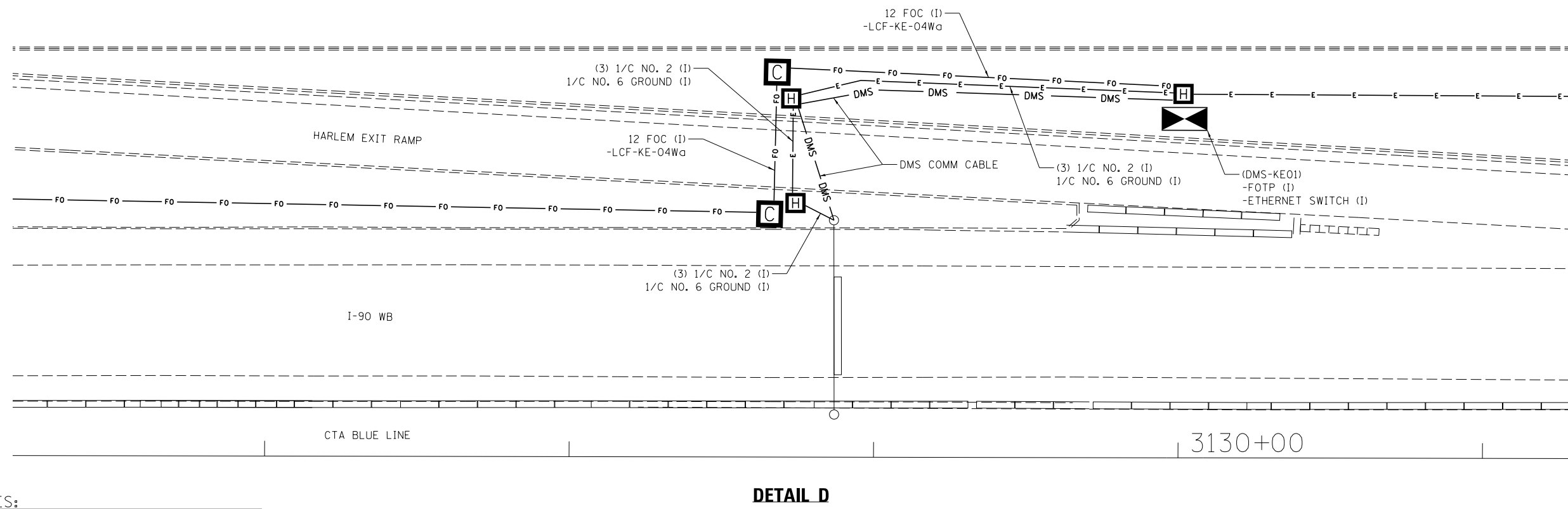
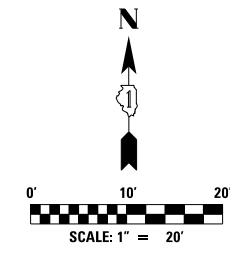
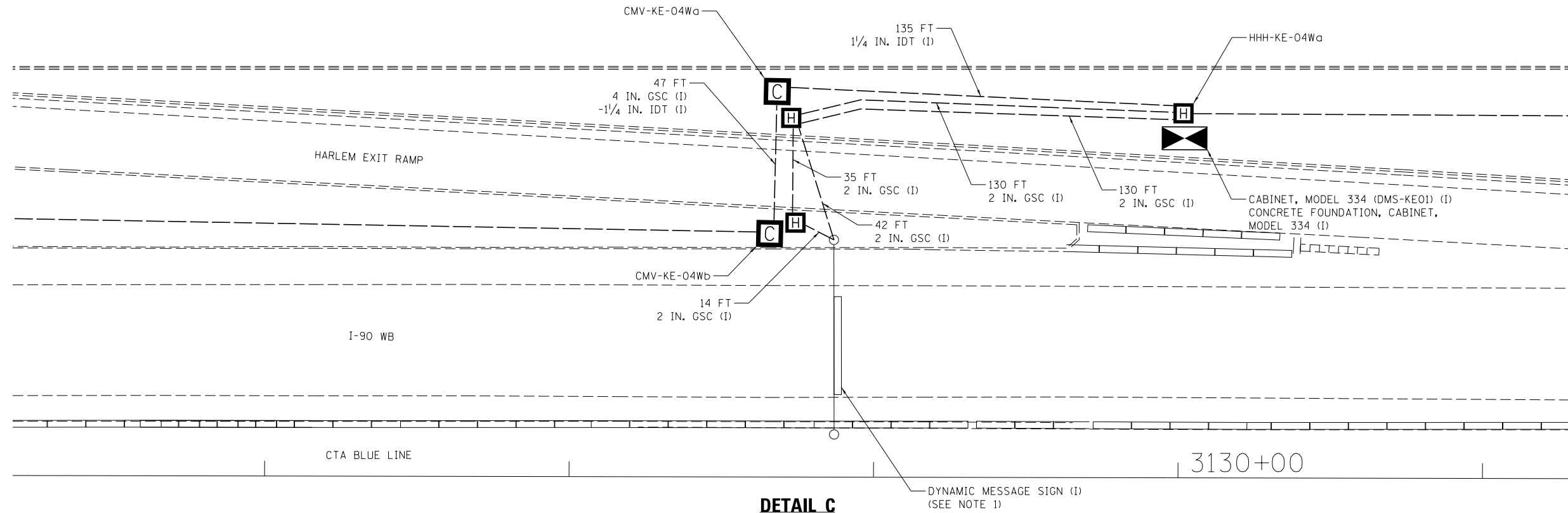
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
SITE INSTALLATION PLAN**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	393
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

**ITS-21**



- NOTES:
1. NEW DMS STRUCTURE TO BE INSTALLED AT THIS LOCATION. SEE SIGN STRUCTURE 1S0161090L081.4 IN OVERHEAD SIGN STRUCTURE DETAIL SHEETS FOR ADDITIONAL INFORMATION.



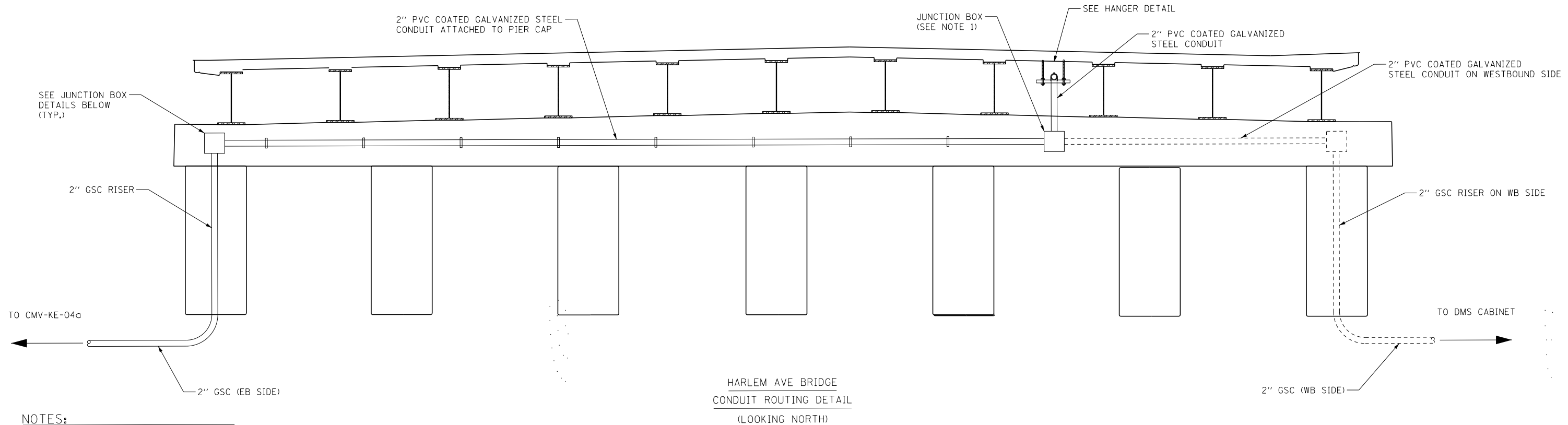
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	DRAWN RJ	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED YJ	REVISED -
PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

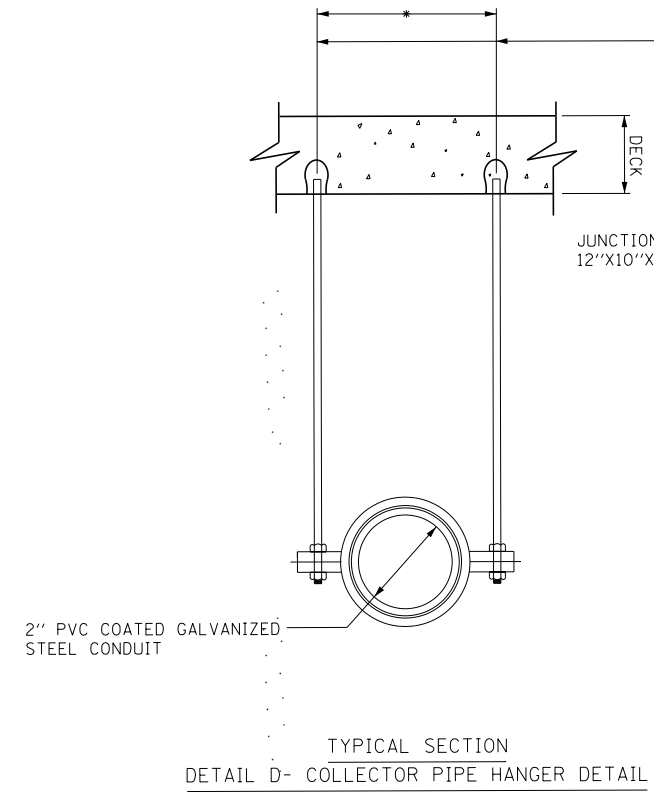
I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
SITE INSTALLATION PLAN

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	394
				CONTRACT NO. 60Y39
ILLINOIS FED. AID PROJECT				

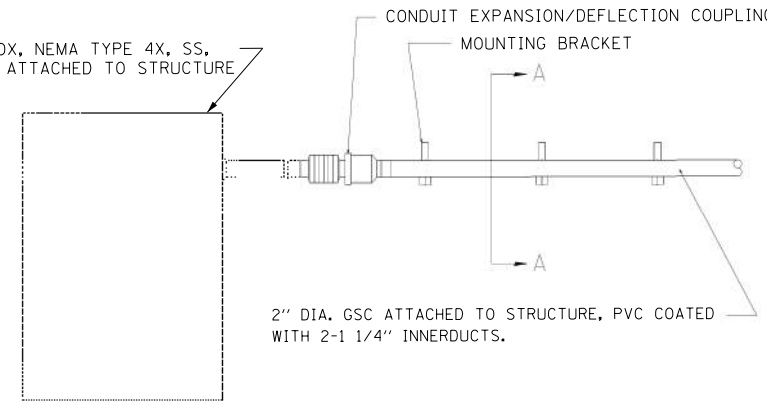


- NOTES:**
1. CENTER JUNCTION BOX AND CONDUIT HANGER BETWEEN THIRD AND FOURTH GIRDERS FROM EAST SIDE OF BRIDGE

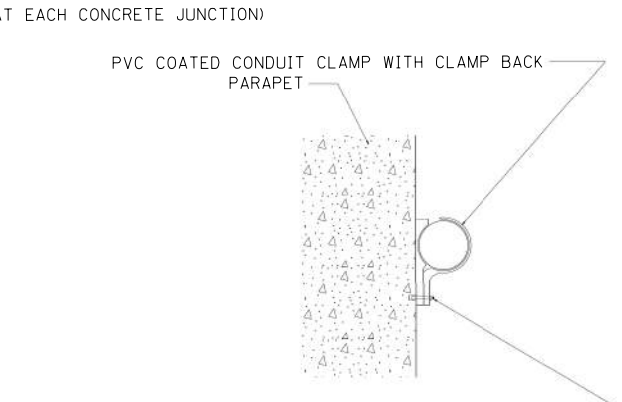


TYPICAL SECTION  
DETAIL D- COLLECTOR PIPE HANGER DETAIL

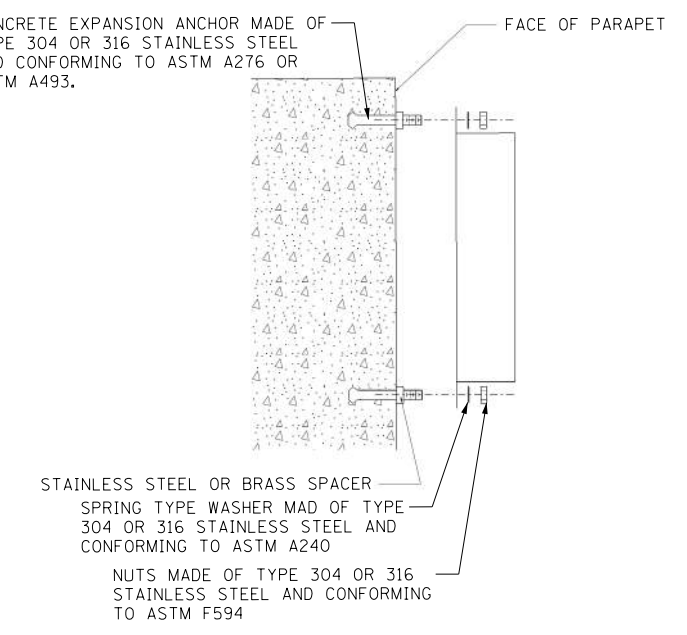
• DIMENSION AS REQUIRED BY PIPE CLAMP



CONDUIT COUPLING AND MOUNTING DETAIL



CONDUIT CLAMP DETAIL



JUNCTION BOX ATTACHED TO PIER CAP



USER NAME = jblakley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/15/2017	DATE 06/28/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONDUIT ROUTING AT HARLEM AVE BRIDGE

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

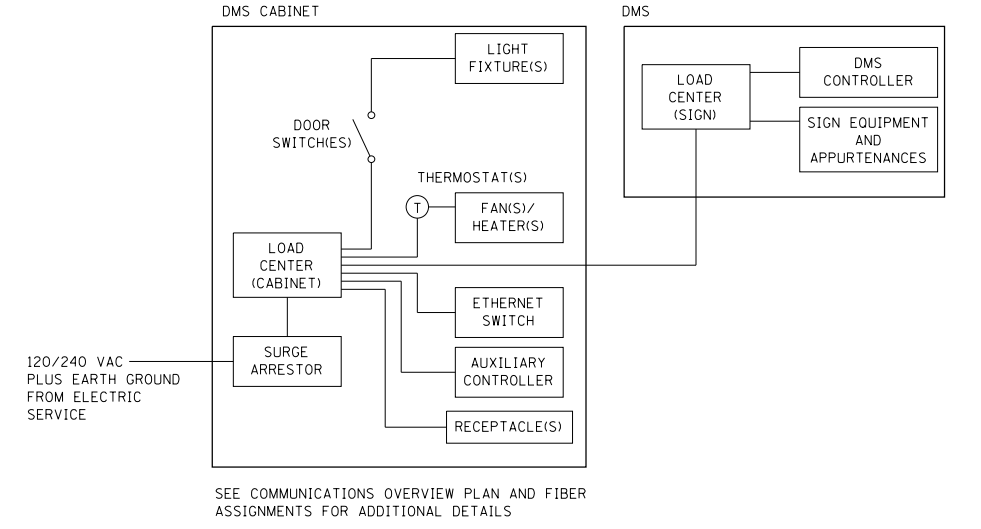
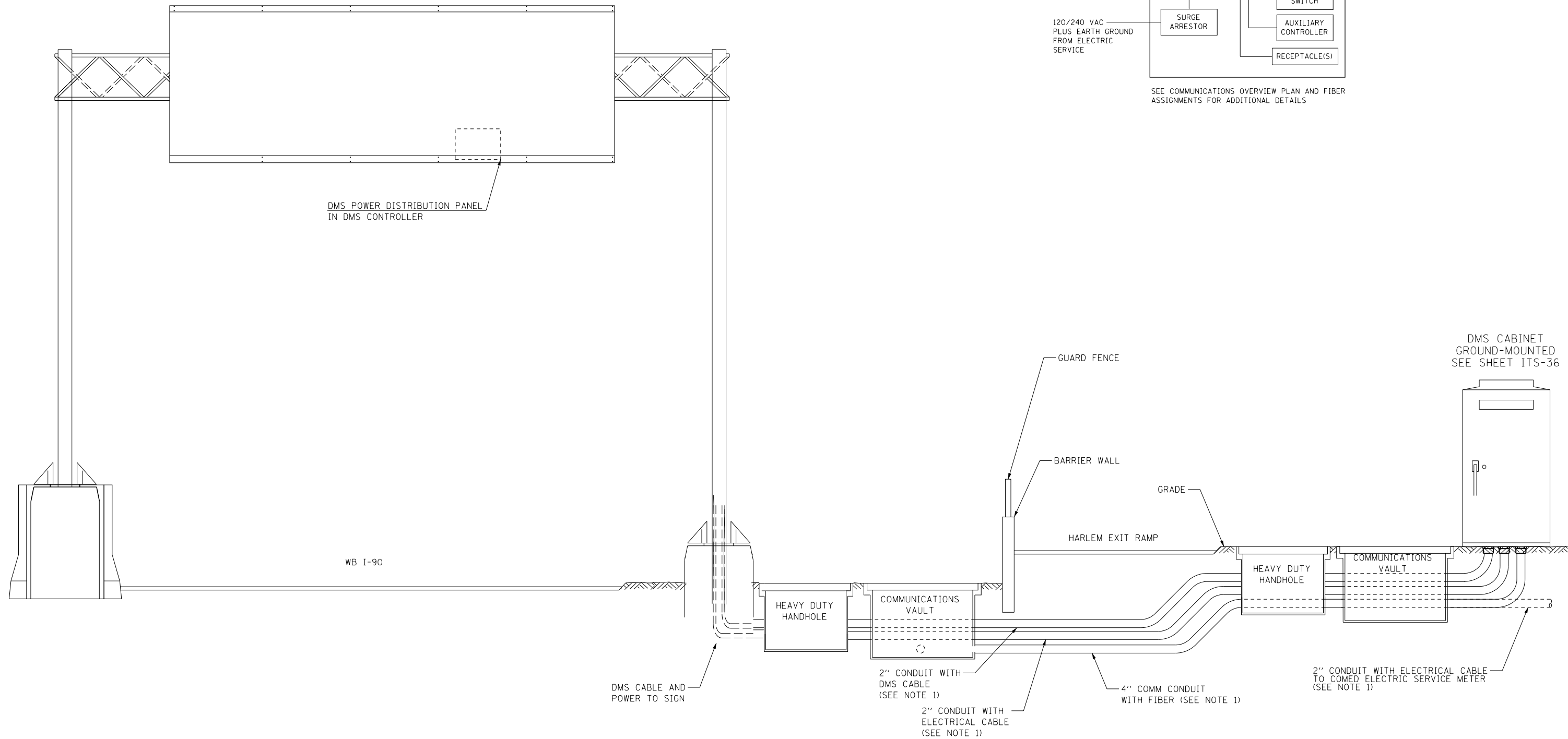
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	395
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				

ITS-23



**NOTES:**

1. SEE ITS-22 FOR CONDUIT AND CABLE INFORMATION.



DMS CABINET  
GROUND-MOUNTED  
SEE SHEET ITS-36

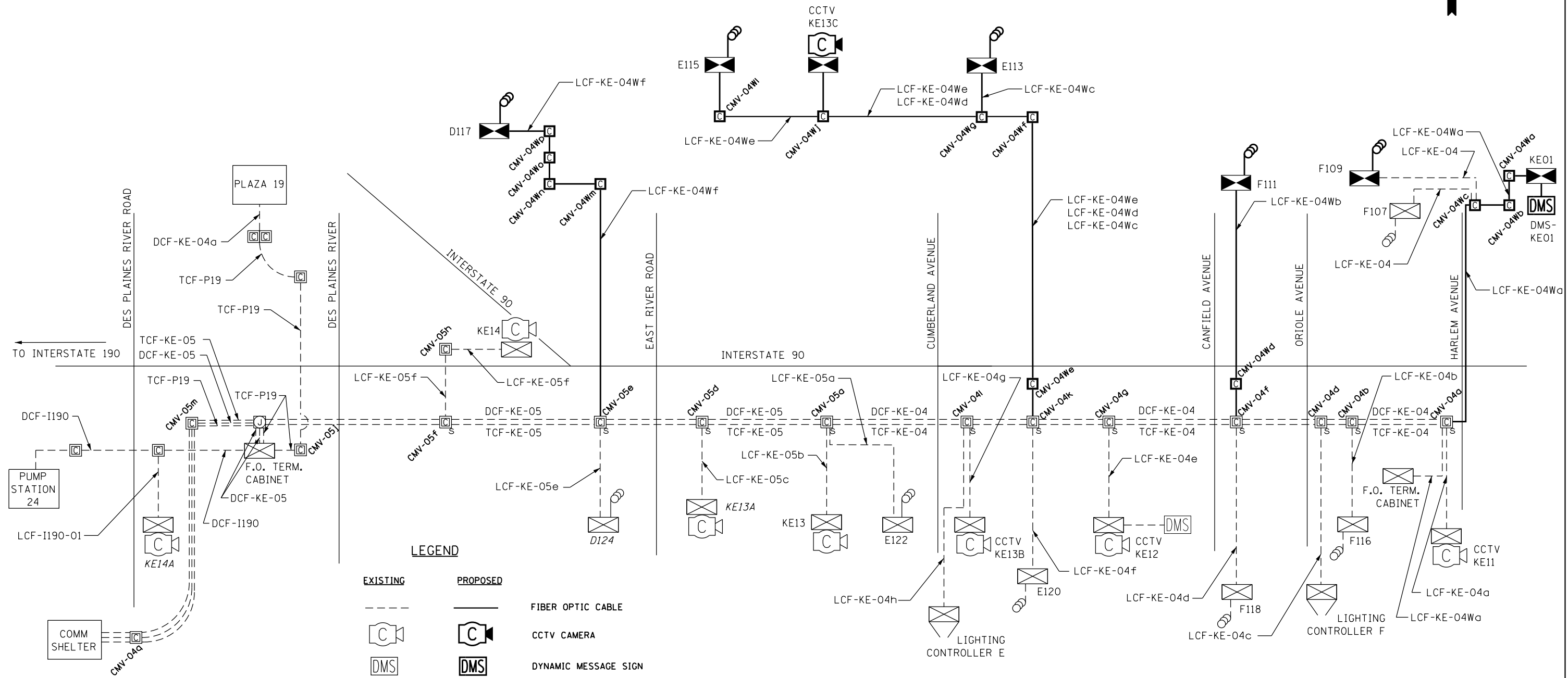
<b>HNTB</b>	USER NAME = jblakley	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/14/2017	DATE 06/28/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DMS CONDUIT, CABLING, AND  
ELECTRIC SERVICE DETAILS**

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

<b>ITS-24</b>	
F.A.I. RTE.	TOTAL SHEETS
SECTION (1517 & 1415) R-2	734
COUNTY COOK	SHEET NO. 396
CONTRACT NO. 60Y39	
ILLINOIS FED. AID PROJECT	



**LEGEND**

EXISTING	PROPOSED	
---	---	FIBER OPTIC CABLE
		CCTV CAMERA
		DYNAMIC MESSAGE SIGN
		SURVEILLANCE LOOPS
		ITS CABINET, GROUND MOUNTED
		LIGHTING CONTROLLER
		COMMUNICATIONS VAULT ("S" INDICATES SPLICE LOCATION)
		JUNCTION BOX
		COMMUNICATION SHELTER

**COMMUNICATIONS VAULT NUMBERING KEY**

- CMV-04W<sub>a</sub> = CMV-KE-04W<sub>a</sub> (COMM VAULT TO BE INSTALLED UNDER THIS WB I-90 CONTRACT 60Y39)
- CMV-04<sub>a</sub> = CMV-KE-04<sub>a</sub> (COMM VAULT INSTALLED UNDER PREVIOUS EB I-90 CONTRACT 60Y38)
- CMV-05<sub>a</sub> = CMV-KE-05<sub>a</sub> (COMM VAULT INSTALLED UNDER PREVIOUS CUMBERLAND CONTRACT 60X56)

•COMMUNICATIONS VAULTS ARE LABELED ALPHABETICALLY FROM EAST TO WEST ALONG THE KENNEDY EXPRESSWAY (KE). VAULTS WITH THE DESIGNATOR "04" ARE LABELED SEQUENTIALLY BEGINNING AT THE HARLEM AVENUE DMS HEADING WEST UNTIL CUMBERLAND AVENUE. VAULTS WITH THE DESIGNATOR "05" ARE LABELED SEQUENTIALLY BEGINNING WEST OF CUMBERLAND AVENUE UNTIL I-190.



USER NAME = #USER*	DESIGNED - RJ	REVISED - -
DRAWN - RJ	REVISIONS -	
PLOT SCALE = #SCALE*	CHECKED - YJ	REVISIONS -
PLOT DATE = #DATE*	DATE 00729922088	REVISIONS -

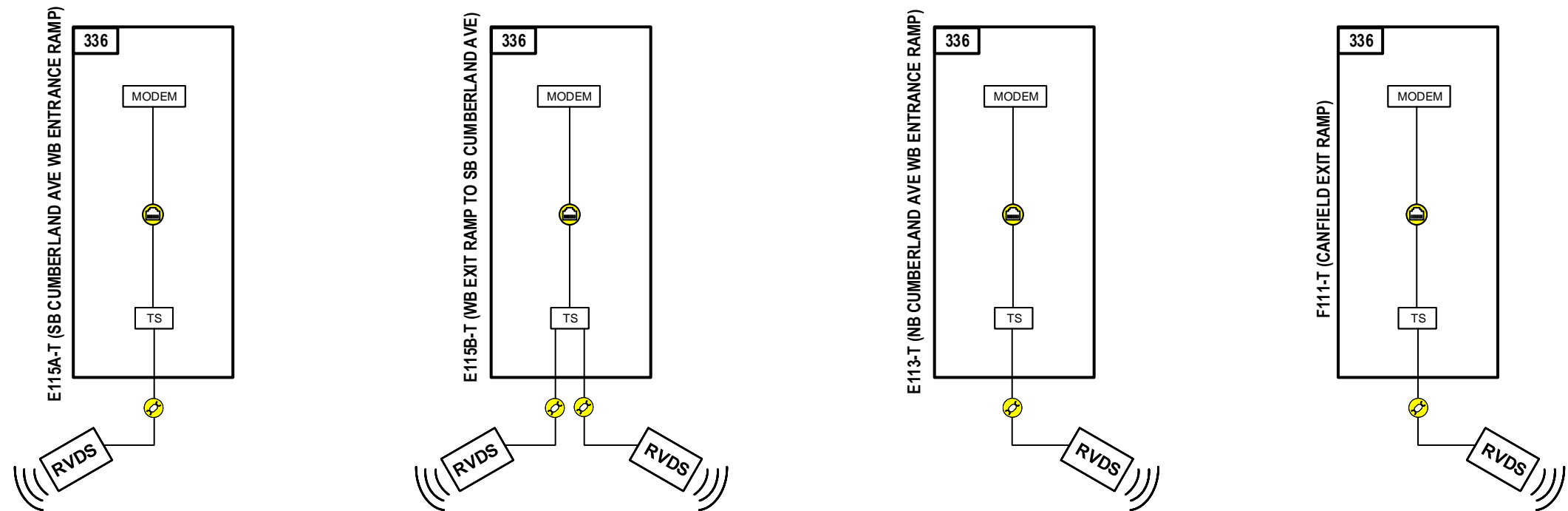
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**I-90 WESTBOUND FROM HARLEM AVE TO I-190 INTERCHANGE  
SINGLE LINE FIBER DIAGRAM**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	397
CONTRACT NO. 60Y39				

ITS-25



LEGEND	
	TWISTED PAIR COPPER CABLE
	UNSHIELDED CAT-5E CABLE
	SHIELDED CAT-5E CABLE
	FIBER OPTIC JUMPER (NO. OF JUMPERS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)
	FIBER OPTIC SPLICE CLOSURE
	FIBER OPTIC SPLICE ENCLOSURE
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F
	TERMINAL SERVER
	CELLULAR MODEM
	TONE RACK EQUIPMENT
	INDUCTION LOOP (NO. OF LOOPS)
	INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	ETHERNET SWITCH
	DMS CONTROLLER
	TEMPORARY VEHICLE DETECTION SYSTEM
	CCTV CAMERA



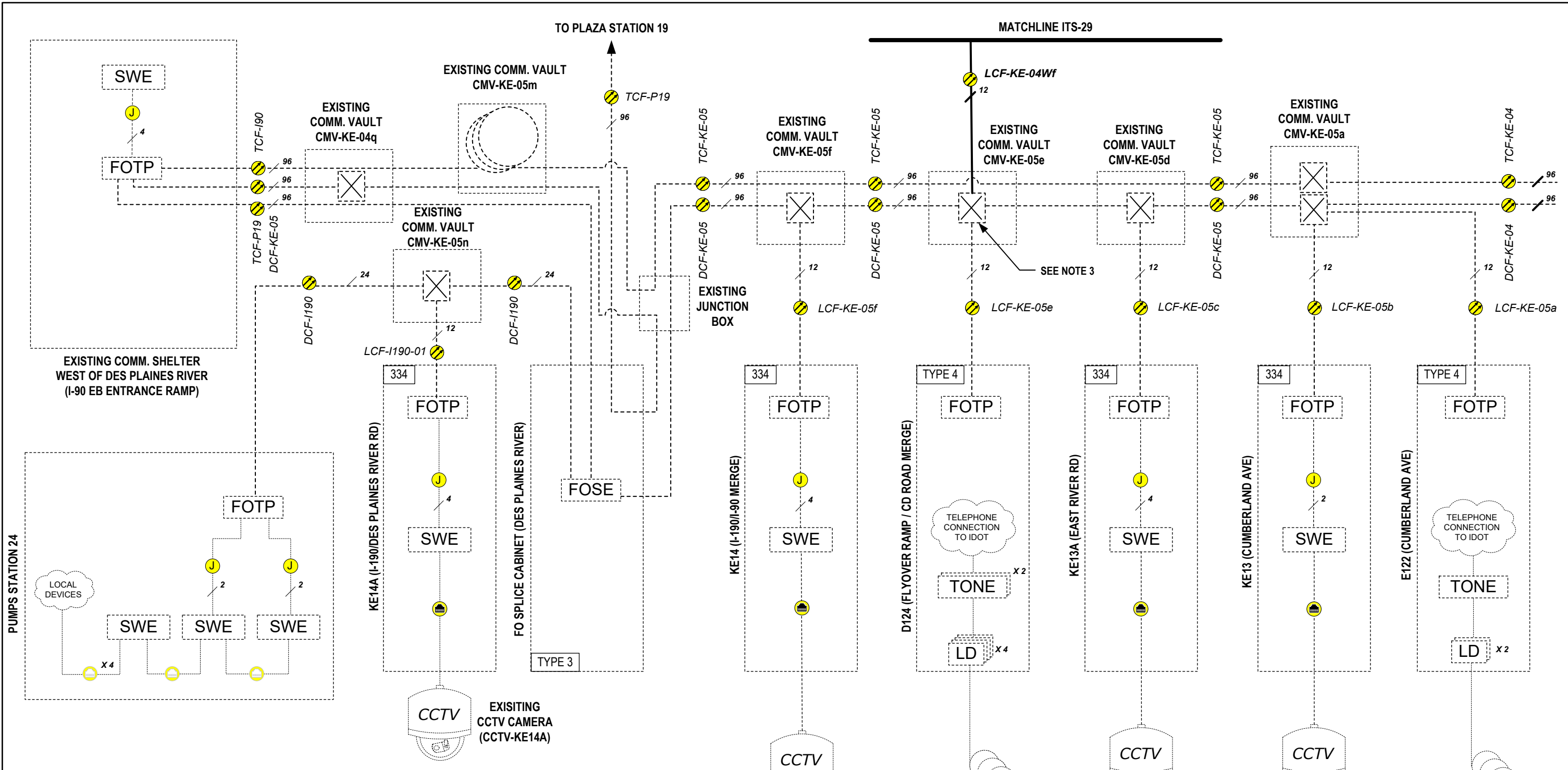
USER NAME = \$USERS	DESIGNED RAJ	REVISED -
	DRAWN RAJ	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED YJ	REVISED -
PLOT DATE = \$DATE\$	DATE 12/21/16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ADVANCE COMMUNICATIONS OVERVIEW PLAN	
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	399
CONTRACT NO. 60Y39				
ILLINOIS		FED. AID PROJECT		

ITS-26



**LEGEND**

	TWISTED PAIR COPPER CABLE		MODEM		CELLULAR MODEM
	UNSHIELDED CAT-5E CABLE		TONE		TONE RACK EQUIPMENT
	SHIELDED CAT-5E CABLE		x 13		INDUCTION LOOP (NO. OF LOOPS)
	FIBER OPTIC JUMPER (NO. OF JUMPERS)		x 6		INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)		SWE		ETHERNET SWITCH
	FIBER OPTIC SPLICE CLOSURE		CNTRL		DMS CONTROLLER
	FIBER OPTIC SPLICE ENCLOSURE		RVDS		TEMPORARY VEHICLE DETECTION SYSTEM
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F		CCTV		CCTV CAMERA
	TS				

**NOTES:**

- DASHED LINES INDICATED EXISTING EQUIPMENT, CABLES, AND ENCLOSURES
- NOT ALL COMMUNICATIONS VAULTS ARE SHOWN FOR CLARITY.
- FUSION SPLICE STRANDS IN LCF-KE-04Wf TO STRANDS RESERVED FOR FUTURE TONE EQUIPMENT CONNECTION IN THE ACCESSED TUBE OF EXISTING FIBER CABLE DCF-KE-05 (CONTRACT 60X56). THE LCF-KE-04Wf STRANDS SHALL BE SPLICED TO DCF-KE-05 FIBERS AND LCF-KE-05 FIBERS FOR FUTURE TONE EQUIPMENT COMMUNICATIONS CHANNEL. UN CUT TUBES IN DCF-KE-05 SHALL NOT BE ACCESSED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



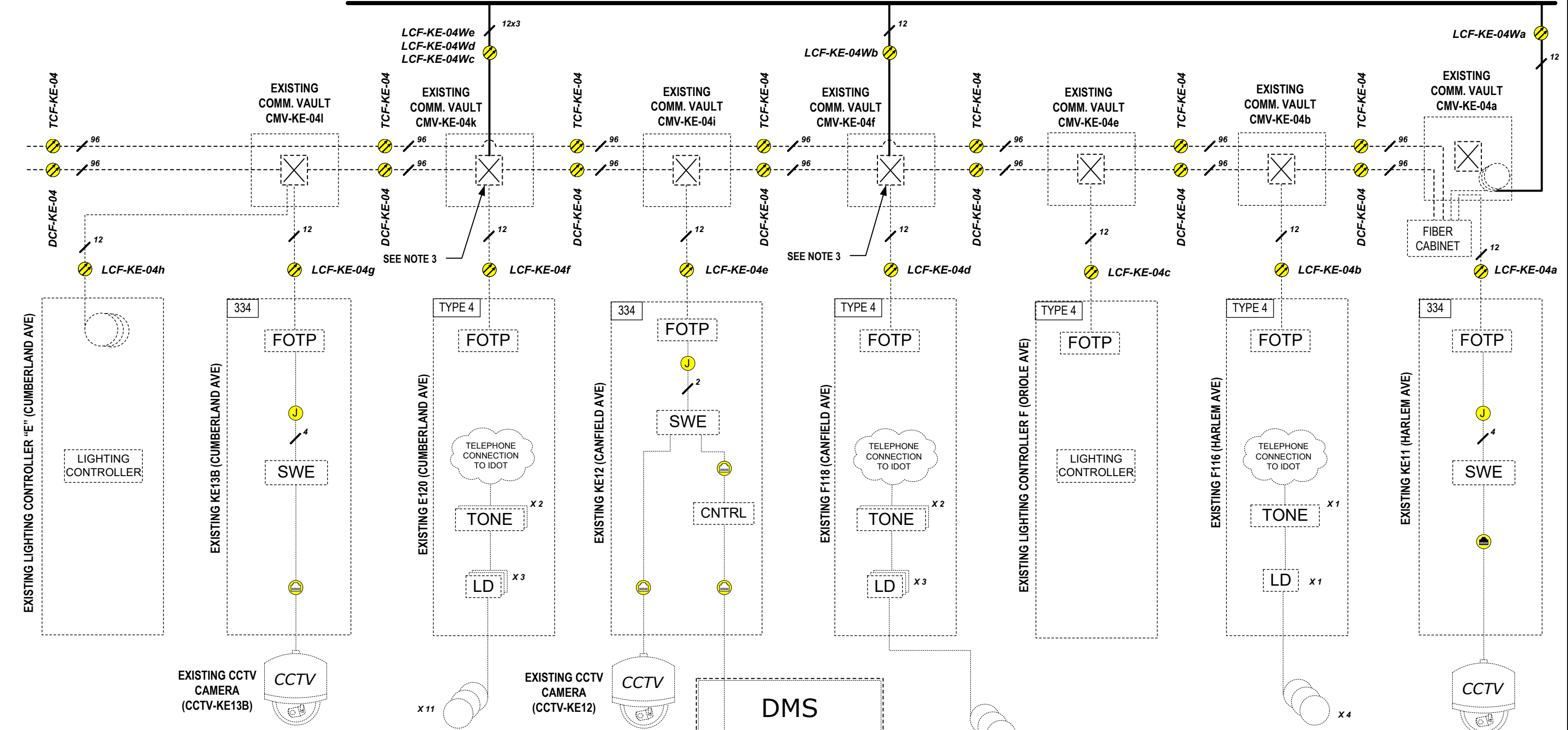
USER NAME = \$USERS\$	DESIGNED RAJ	REVISED -
DRAWN RAJ	REVISOR	REVISED -
CHECKED YJ	REVISOR	REVISED -
DATE 12/21/16	REVISOR	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FINAL COMMUNICATIONS OVERVIEW PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	(1517 & 1415) R-2	COOK	734	399
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				



**LEGEND**

	TWISTED PAIR COPPER CABLE		MODEM		CELLULAR MODEM
	UNSHIELDED CAT-5E CABLE		TONE		TONE RACK EQUIPMENT
	SHIELDED CAT-5E CABLE		x 13		INDUCTION LOOP (NO. OF LOOPS)
	FIBER OPTIC JUMPER (NO. OF JUMPERS)		x 6		INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)		SWE		ETHERNET SWITCH
	FIBER OPTIC SPLICE CLOSURE		CNTRL		DMS CONTROLLER
	FIBER OPTIC SPLICE ENCLOSURE		RVDS		TEMPORARY VEHICLE DETECTION SYSTEM
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F		CCTV		CCTV CAMERA
	TERMINAL SERVER				

**DMS**  
 AUXILIARY CNTRL  
 EXISTING DYNAMIC MESSAGE SIGN CANFIELD AVE

**NOTES:**  
 1. DASHED LINES INDICATED EXISTING EQUIPMENT, CABLES, AND ENCLOSURES  
 2. NOT ALL COMMUNICATIONS VAULTS ARE SHOWN FOR CLARITY.  
 3. FUSION SPLICE STRANDS IN PROPOSED LATERAL FIBER CABLE TO STRANDS RESERVED FOR FUTURE TONE EQUIPMENT CONNECTION IN THE ACCESSED TUBE OF EXISTING FIBER CABLE DCF-KE-04 (CONTRACT 60Y38). THE PROPOSED LATERAL FIBER CABLE STRANDS SHALL BE SPLICED TO DCF-KE-04 FIBERS TO THE WEST AND EXISTING LATERAL CABLE FIBERS FOR FUTURE TONE EQUIPMENT COMMUNICATIONS CHANNEL. UN-CUT TUBES IN DCF-KE-04 SHALL NOT BE ACCESSED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

<b>HNTB</b>	USER NAME = \$USERS\$	DESIGNED RAJ	REVISED -
		DRAWN RAJ	REVISED -
	PLOT SCALE = \$SCALES\$	CHECKED YJ	REVISED -
	PLOT DATE = \$DATES\$	DATE 12/21/16	REVISED -

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

**FINAL COMMUNICATIONS OVERVIEW PLAN**

SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A.P. RTE. 90	SECTION (1517 & 1415) R-2	COUNTY COOK	TOTAL SHEETS 734	SHEET NO. 400
CONTRACT NO. 60Y39				
ILLINOIS FED. AID PROJECT				