

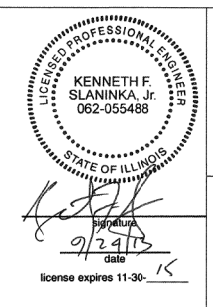
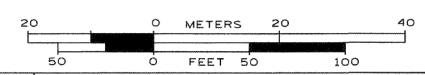
MATCH SHEET 4

---	STREET LIGHT
—A—	AERIAL
—O—	UNKNOWN
—CTV—	OIL
—T—	CABLE TV
—G—	TELEPHONE
—E—	GAS
—W—	ELECTRIC
—F—	FORCE MAIN
—FO—	FIBER OPTIC
—	END OF INFORMATION
⊙	TBE TEST HOLE

UTILITY OWNERS	
AT&T	= TELEPHONE
BP	= PIPELINE
COM-ED	= ELECTRIC
IDOT	= ELECTRIC
KINDER MORGAN	= PIPELINE
MWRD	= WATER
NICOR	= GAS
UNITE	= FIBER OPTIC
VILLAGE OF McCOOK	= WATER
WEST SHORE	= PIPELINE

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



Engineers & Surveyors

TBE Job No. IL09510524
SUE Plan Page: 5 of 12

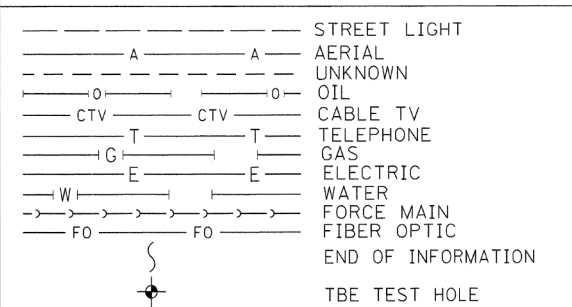
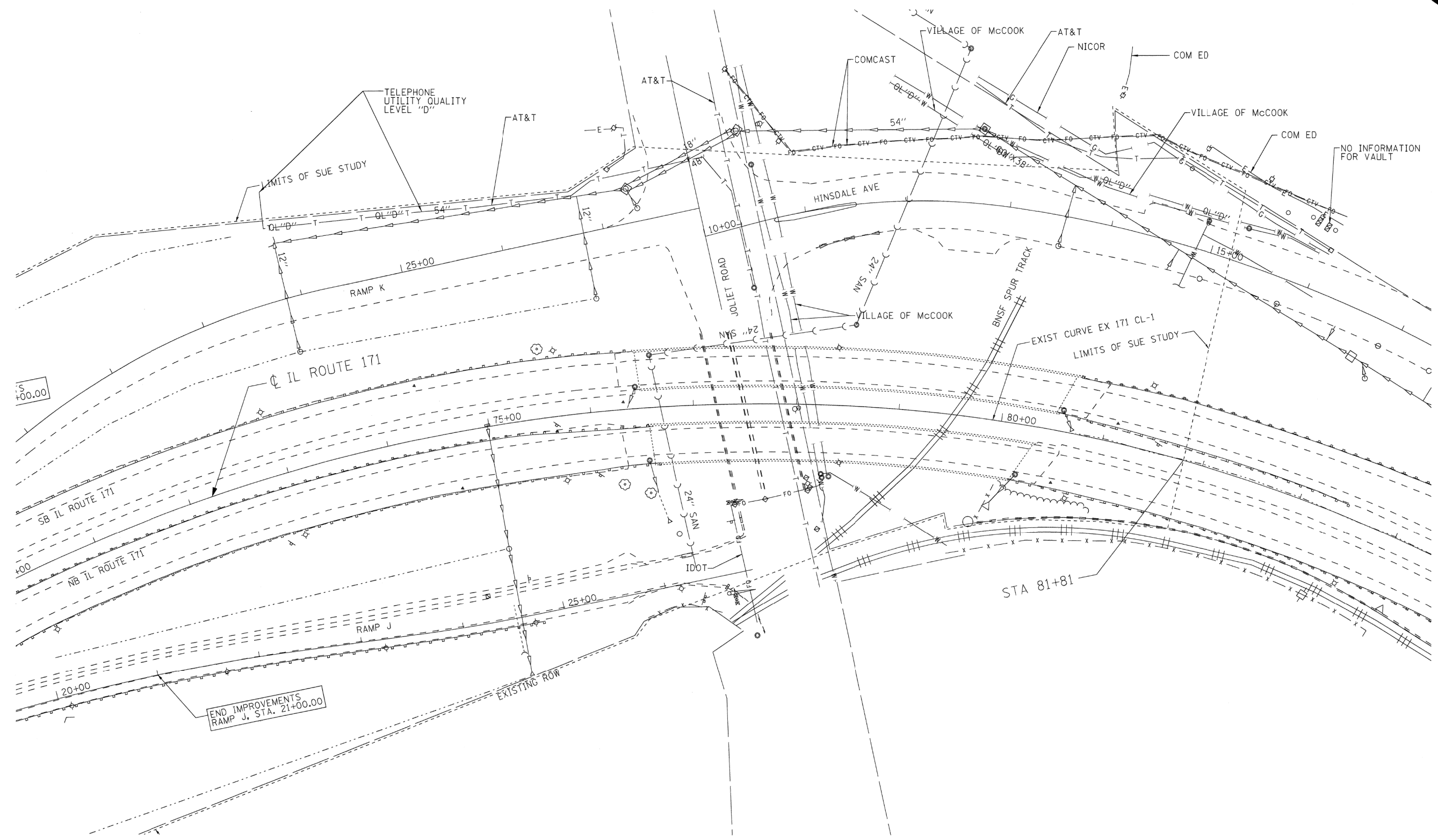
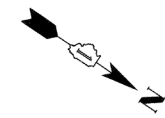
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	JP	REVISED	
DRAWN	KLC	REVISED	
CHECKED	KFS	REVISED	
DATE	9/20/13	REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois**

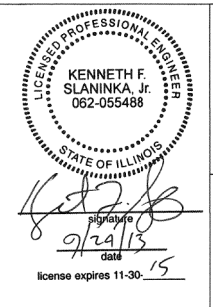
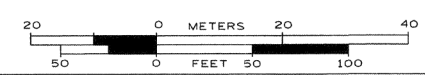
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	Cook	787	101
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.			Contract No. 60W75	



UTILITY OWNERS	
AT&T	= TELEPHONE
BP	= PIPELINE
COM-ED	= ELECTRIC
IDOT	= ELECTRIC
KINDER MORGAN	= PIPELINE
MWRD	= WATER
NICOR	= GAS
UNITE	= FIBER OPTIC
VILLAGE OF McCOOK	= WATER
WEST SHORE	= PIPELINE

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



TBE Job No. IL09510524
SUE Plan Page: 6 of 12

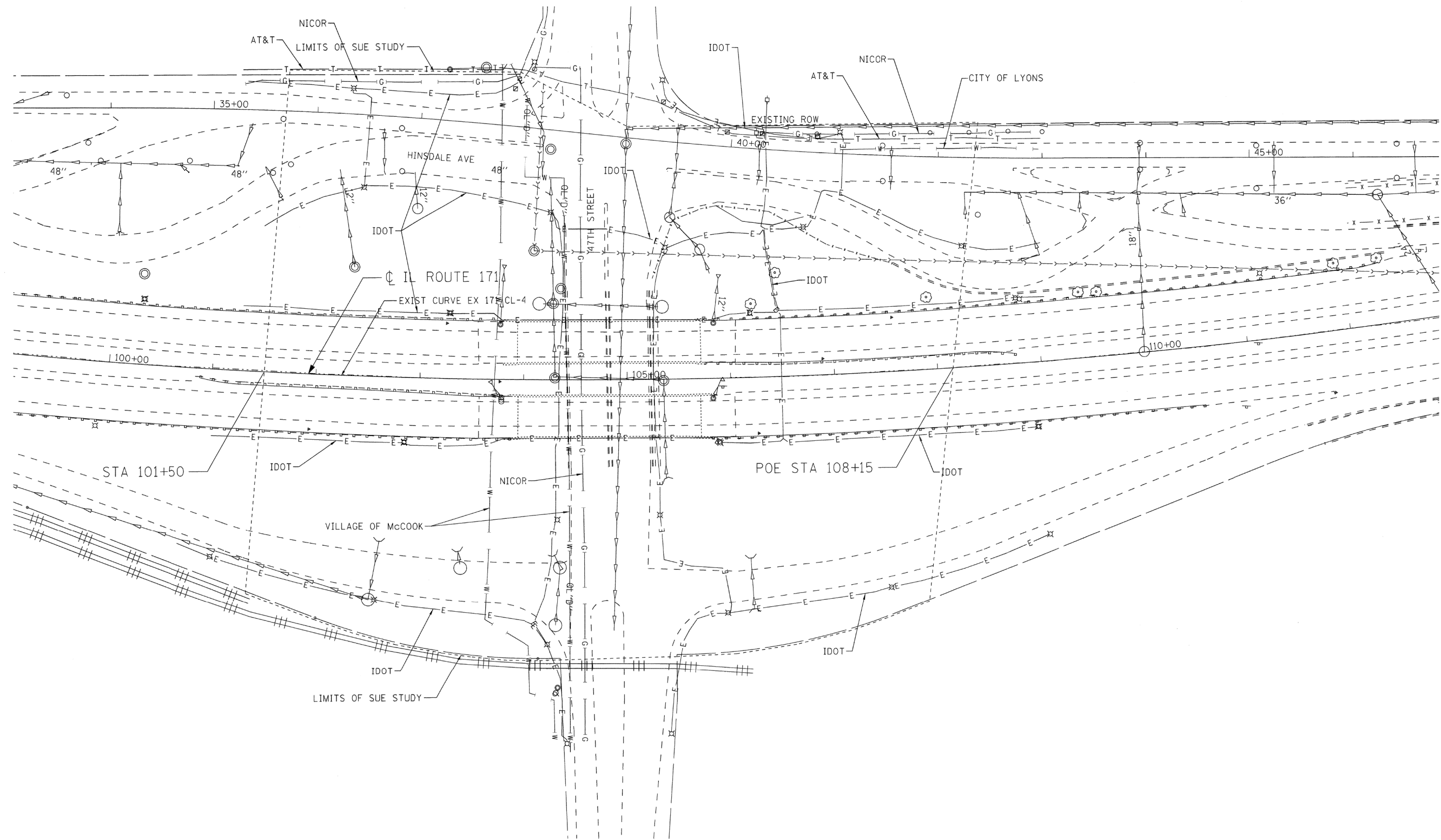
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	Cook	787	102
Contract No. 60W75				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.				

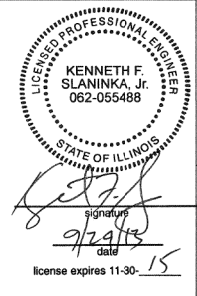
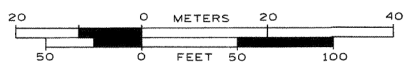


—	STREET LIGHT
—A—	AERIAL
—O—	UNKNOWN
—0—	OIL
—CTV—	CABLE TV
—T—	TELEPHONE
—G—	GAS
—E—	ELECTRIC
—W—	WATER
—FM—	FORCE MAIN
—FO—	FIBER OPTIC
⊙	TBE TEST HOLE
—	END OF INFORMATION

UTILITY OWNERS	
AT&T	= TELEPHONE
BP	= PIPELINE
COM-ED	= ELECTRIC
IDOT	= ELECTRIC
KINDER MORGAN	= PIPELINE
MWRD	= WATER
NICOR	= GAS
UNITE	= FIBER OPTIC
VILLAGE OF McCOOK	= WATER
WEST SHORE	= PIPELINE

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TBE Job No. IL09510524
SUE Plan Page: 7 of 12

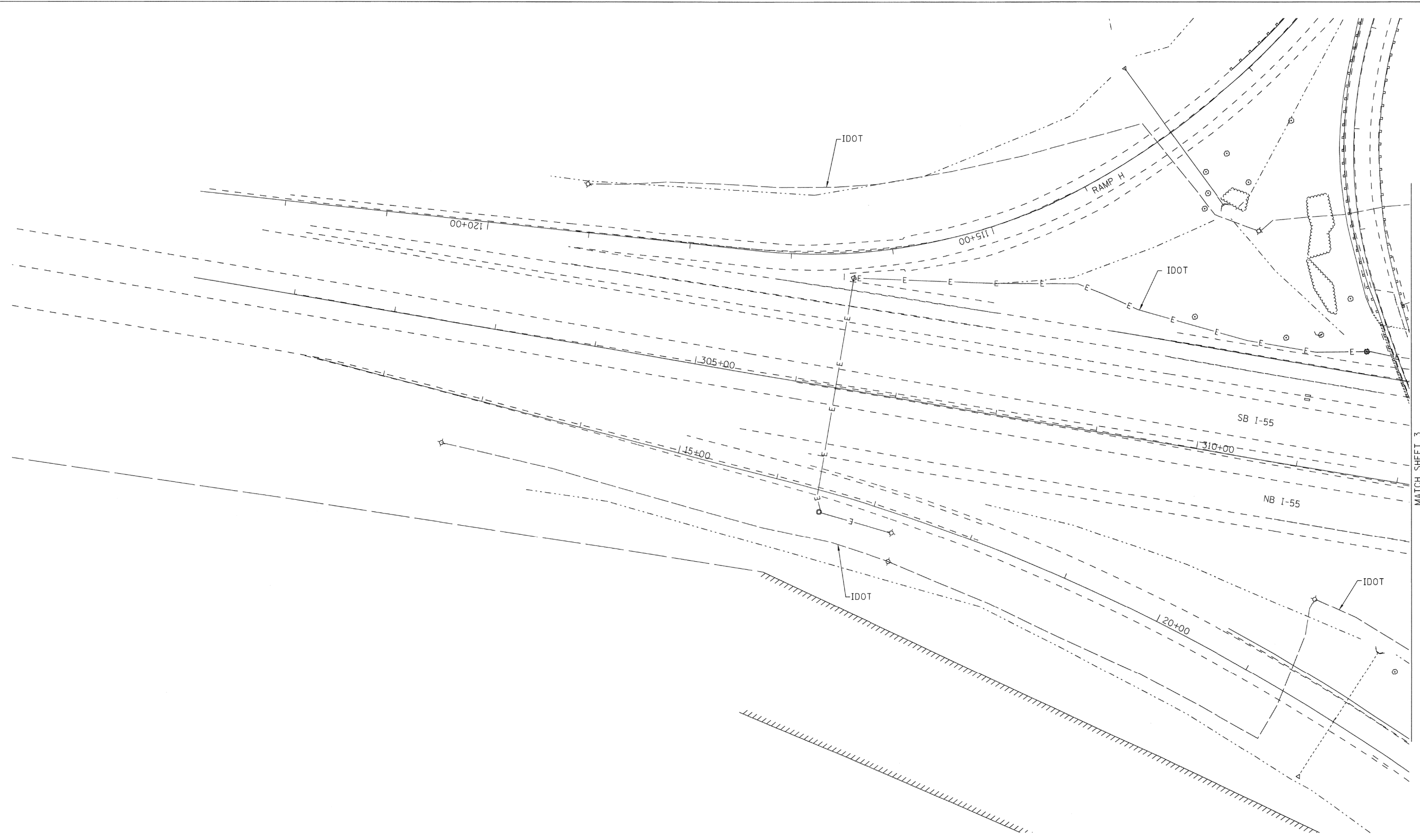
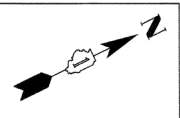
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	Cook	787	103
Contract No. 60W75				
FED. ROAD DIST. NO. - ILLINOIS IDOT Project No.				

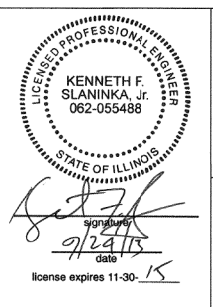
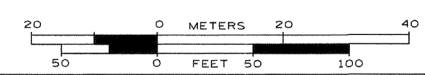


— — — — —	STREET LIGHT
— A — A —	AERIAL
— 0 — 0 —	UNKNOWN
— O — O —	OIL
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
—> —> —> —>	FORCE MAIN
—> —> —> —>	FIBER OPTIC
— FO — FO —	END OF INFORMATION
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T = TELEPHONE	
BP = PIPELINE	
COM-ED = ELECTRIC	
IDOT = ELECTRIC	
KINDER MORGAN = PIPELINE	
MWRD = WATER	
NICOR = GAS	
UNITE = FIBER OPTIC	
VILLAGE OF MCCOOK = WATER	
WEST SHORE = PIPELINE	

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



Engineers & Surveyors

TBE Job No. IL09510524
SUE Plan Page: 8 of 12

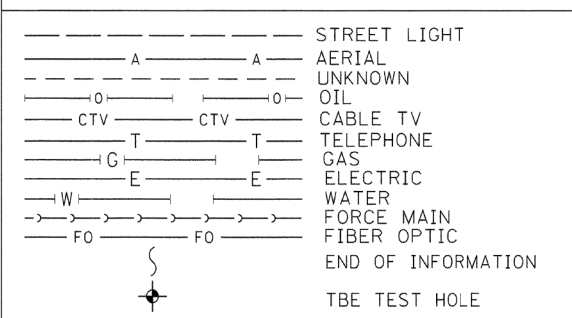
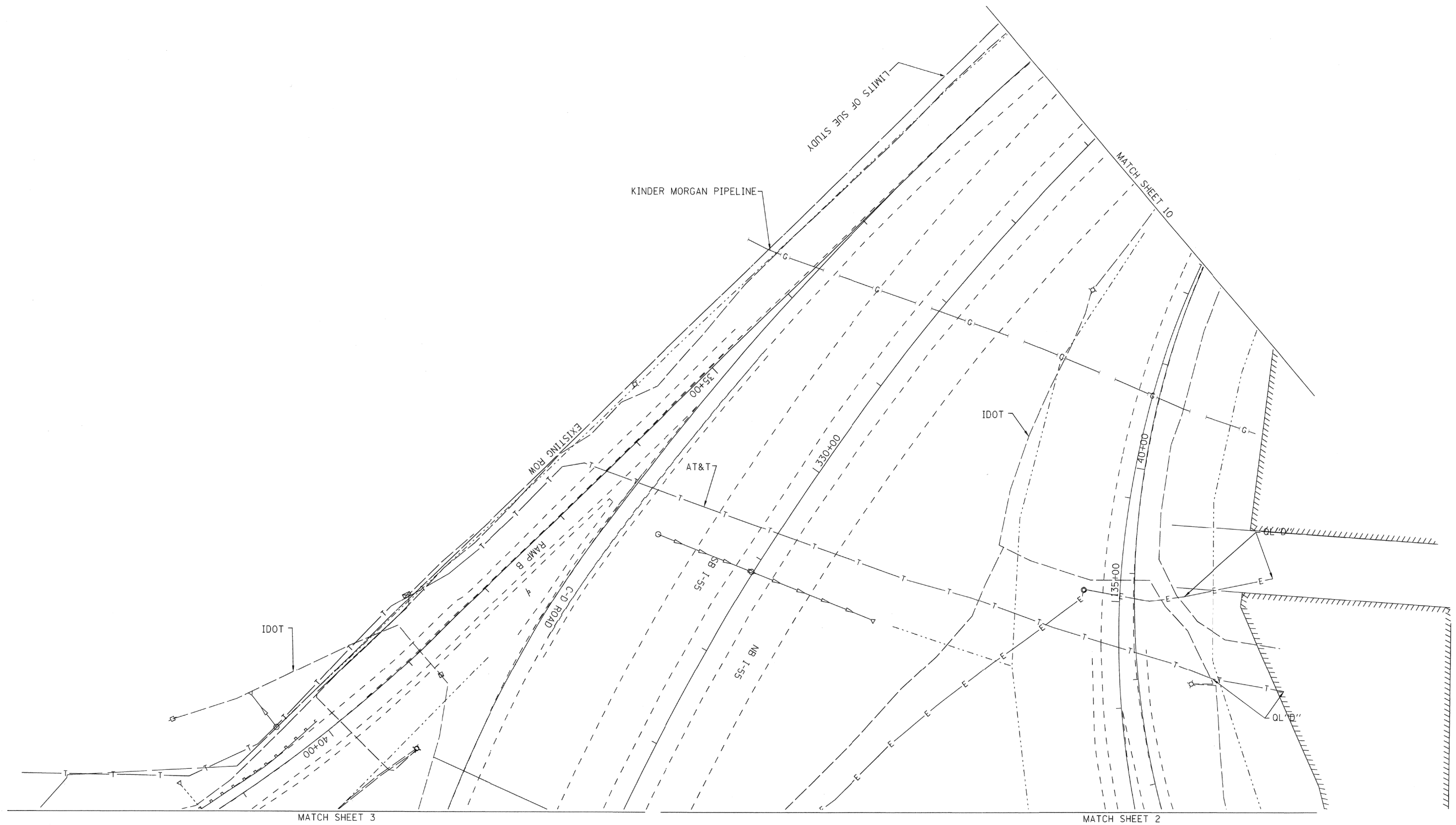
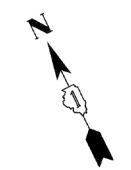
Utility Quality Level "A" : Visually Verified Test Hole
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Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois**

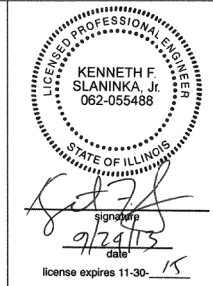
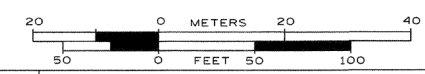
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	Cook	787	104
Contract No. 60W75				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.				



UTILITY OWNERS	
AT&T = TELEPHONE	
BP = PIPELINE	
COM-ED = ELECTRIC	
IDOT = ELECTRIC	
KINDER MORGAN = PIPELINE	
MWRD = WATER	
NICOR = GAS	
UNITE = FIBER OPTIC	
VILLAGE OF McCOOK = WATER	
WEST SHORE = PIPELINE	

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TBE Job No. IL09510524
SUE Plan Page: 9 of 12

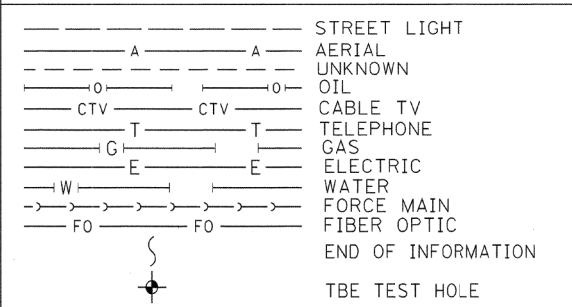
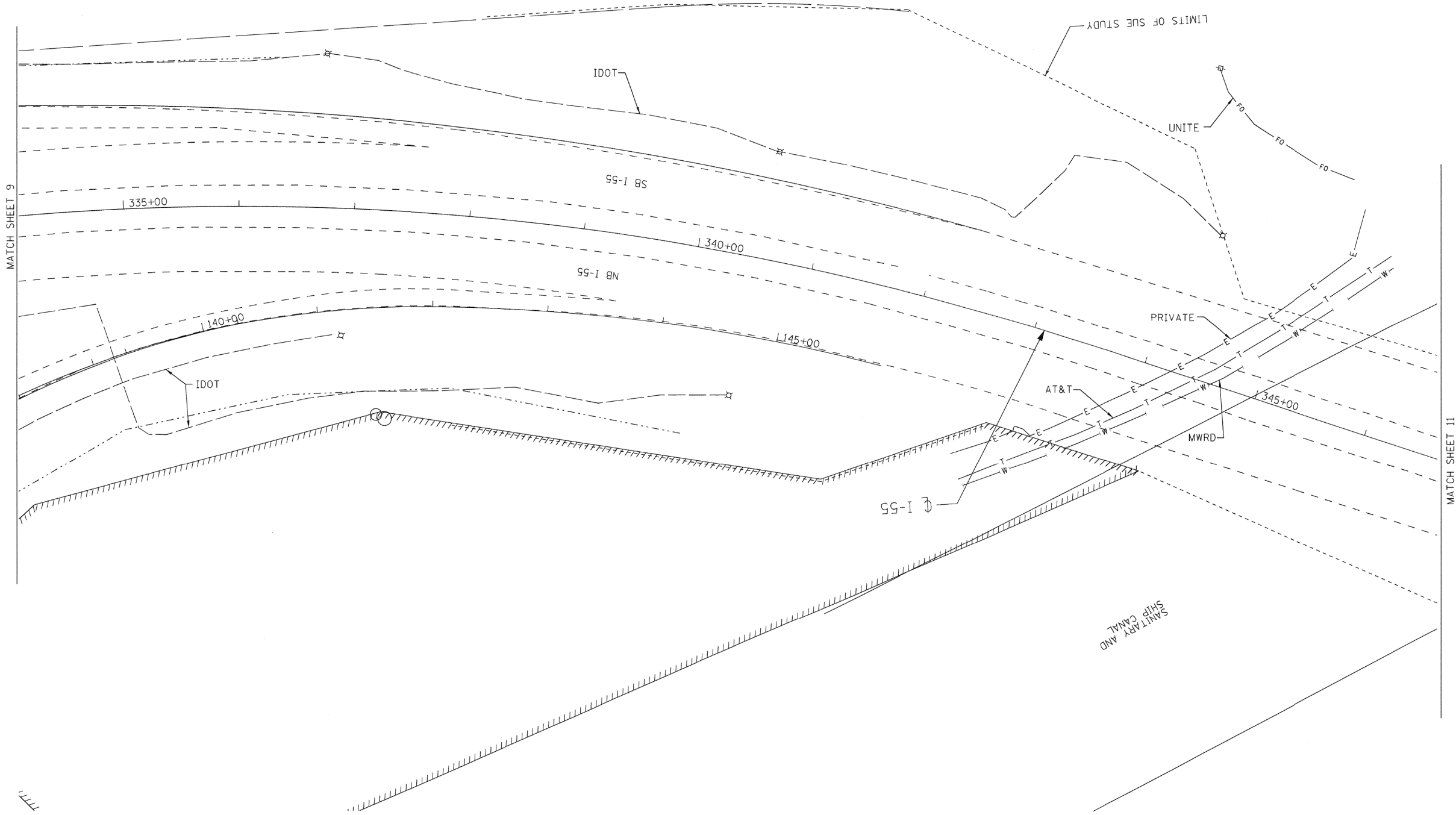
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DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois

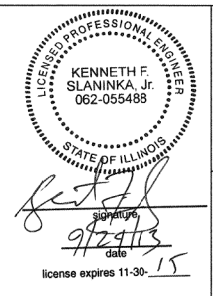
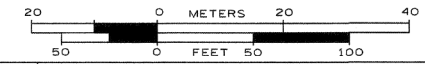
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	Cook	787	105
Contract No. 60W75				
FED. ROAD DIST. NO. - ILLINOIS IDOT Project No.				



UTILITY OWNERS	
AT&T = TELEPHONE	
BP = PIPELINE	
COM-ED = ELECTRIC	
IDOT = ELECTRIC	
KINDER MORGAN = PIPELINE	
MWRD = WATER	
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WEST SHORE = PIPELINE	

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TBE Job No. IL09510524
SUE Plan Page: 10 of 12

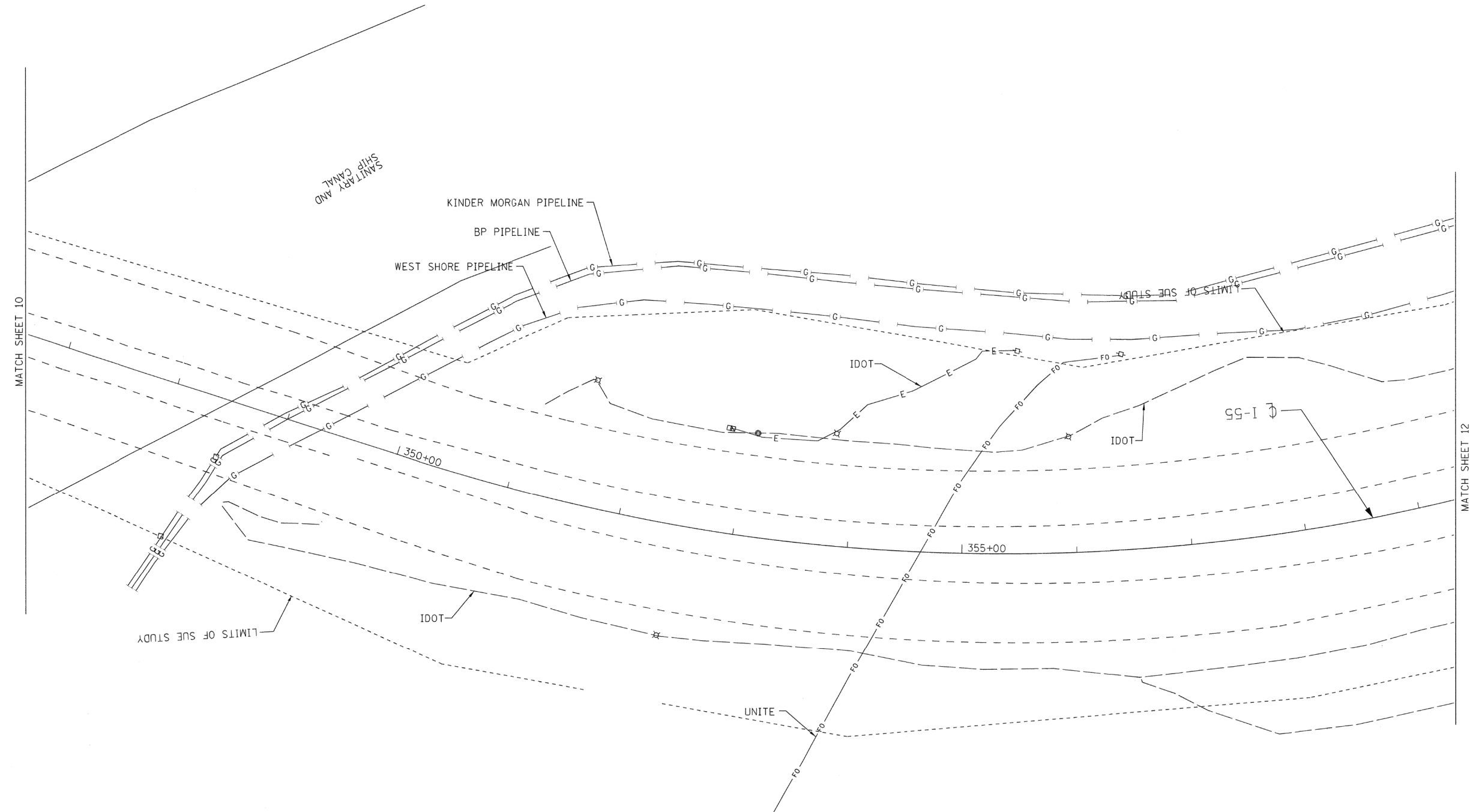
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DESIGNED JP	REVISED
DRAWN KLC	REVISED
CHECKED KFS	REVISED
DATE 9/20/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	Cook	787	106
Contract No. 60W75				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.				

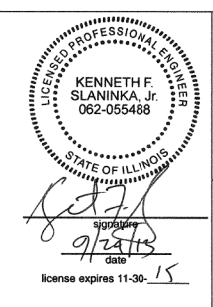
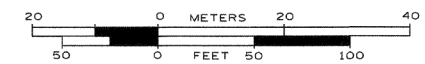


---	STREET LIGHT
—A—	AERIAL
—0—	UNKNOWN
—O—	OIL
—CTV—	CABLE TV
—T—	TELEPHONE
—G—	GAS
—E—	ELECTRIC
—W—	WATER
—>>>—	FORCE MAIN
—FO—	FIBER OPTIC
⊙	TBE TEST HOLE
---	END OF INFORMATION

UTILITY OWNERS	
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BP	= PIPELINE
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KINDER MORGAN	= PIPELINE
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**Cardno
TBE**

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510524
SUE Plan Page: 11 of 12

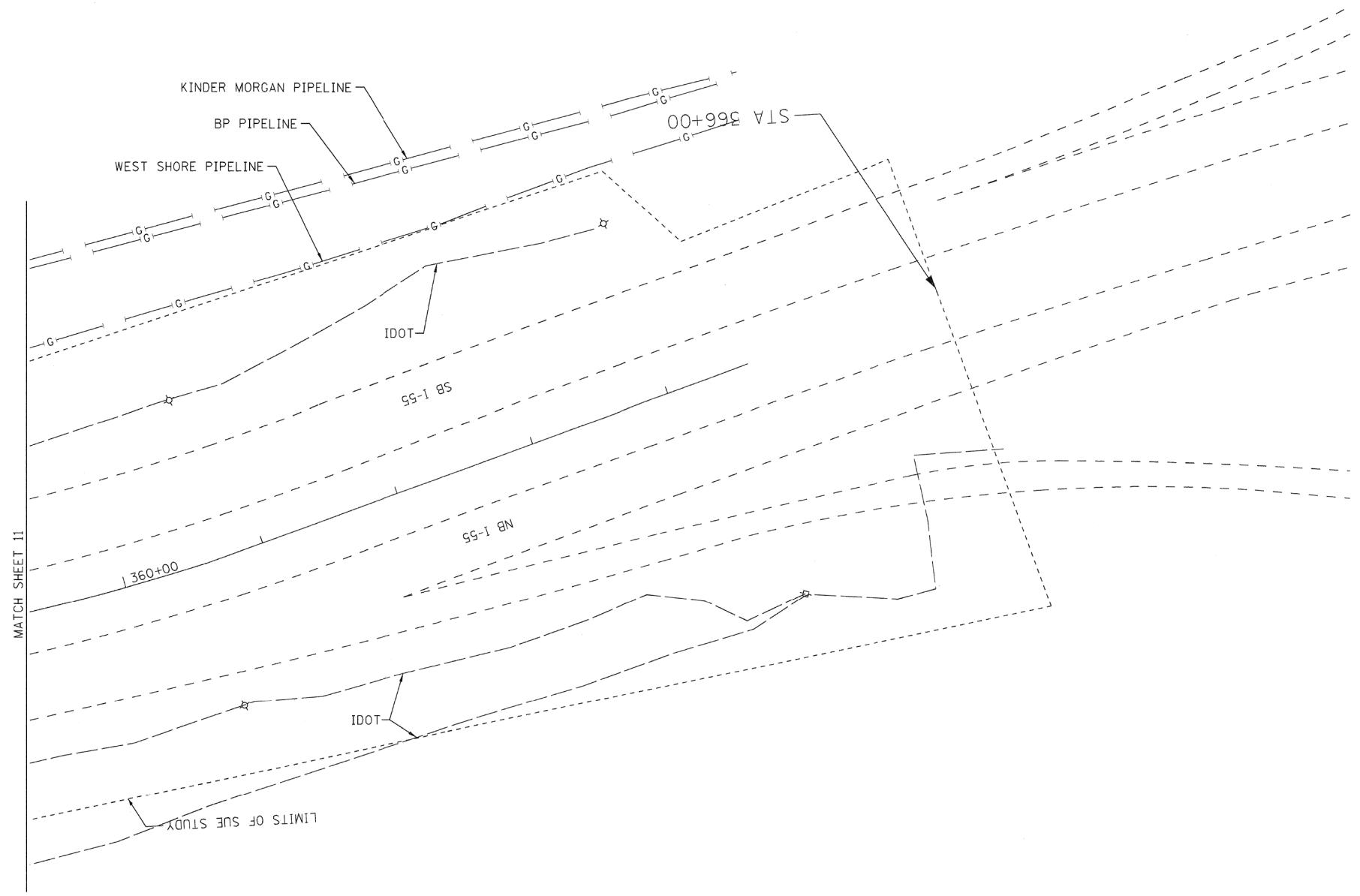
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DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	Cook	787	107
Contract No. 60W75				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.				

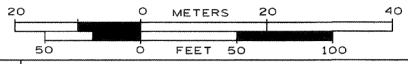


---	STREET LIGHT
—A—	AERIAL
---	UNKNOWN
—O—	OIL
—CTV—	CABLE TV
—T—	TELEPHONE
—G—	GAS
—E—	ELECTRIC
—W—	WATER
—>>>—	FORCE MAIN
—FO—	FIBER OPTIC
⊙	TBE TEST HOLE

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UNLESS NOTED OTHERWISE.



TBE Job No. IL09510524
SUE Plan Page: 12 of 12

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Utility Quality Level "B" : Designating/non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	IP	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	9/20/13	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

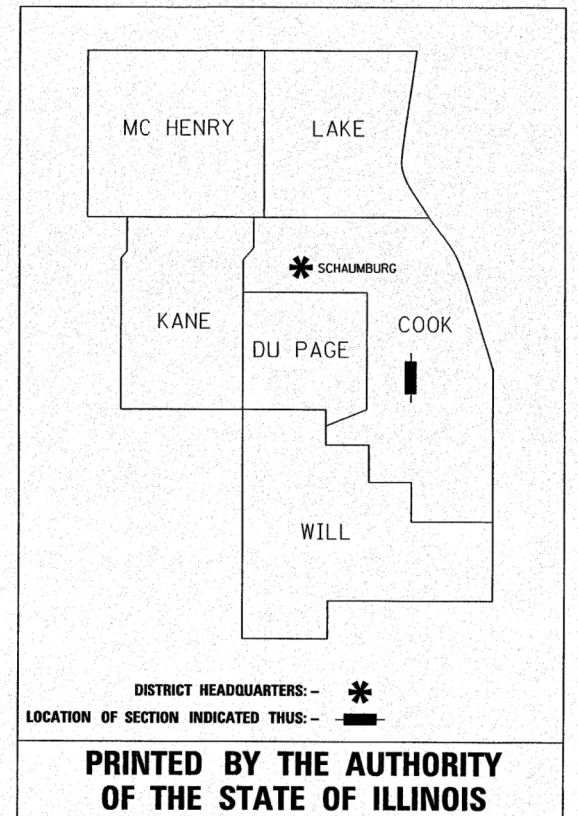
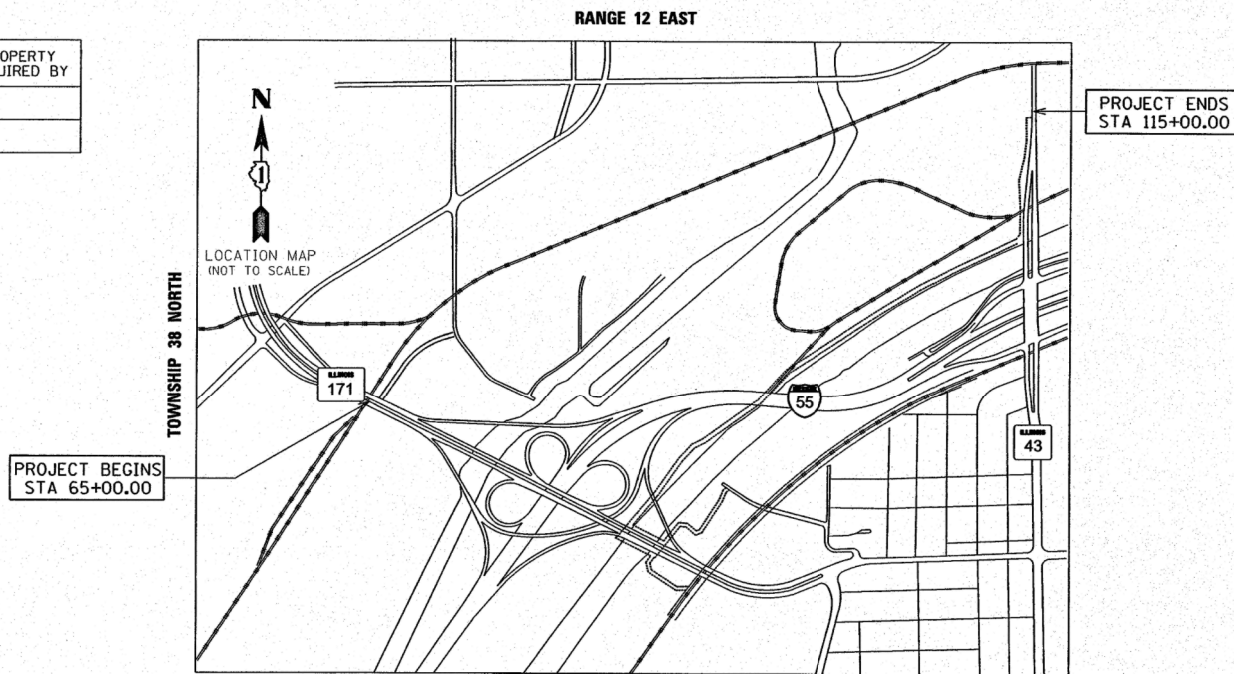
IL 171 (1st Ave.) 47th Street to 55th Street
Summit, Illinois

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
872/373	2013-037B-R	Cook	787	108
FED. ROAD DIST. NO. - ILLINOIS			IDOT Project No.	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS

ROUTE: IL-171 (FIRST AVENUE)
SECTION:
COUNTY: COOK
**LIMITS: FROM 47TH STREET
TO 55TH STREET**
JOB NO.: R-90-011-11

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0.JL0001A	THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	2	
0.JL0001B	THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO	2	



GRAEF
8501 West Higgins Road
Suite 280
Chicago, IL 60631-2801
773 / 399 0112
www.graef-usa.com
Illinois Professional Design Corporation 184-000938

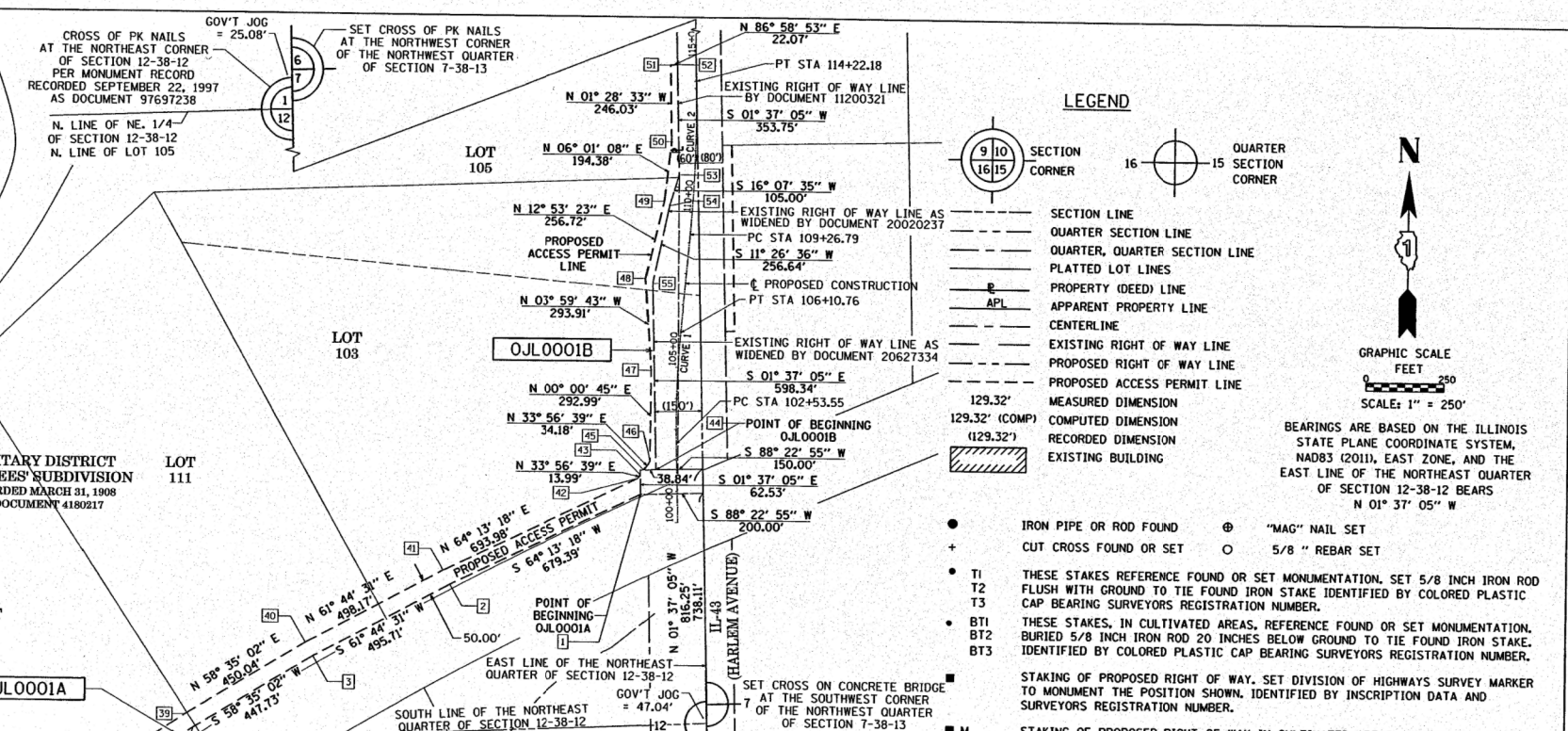
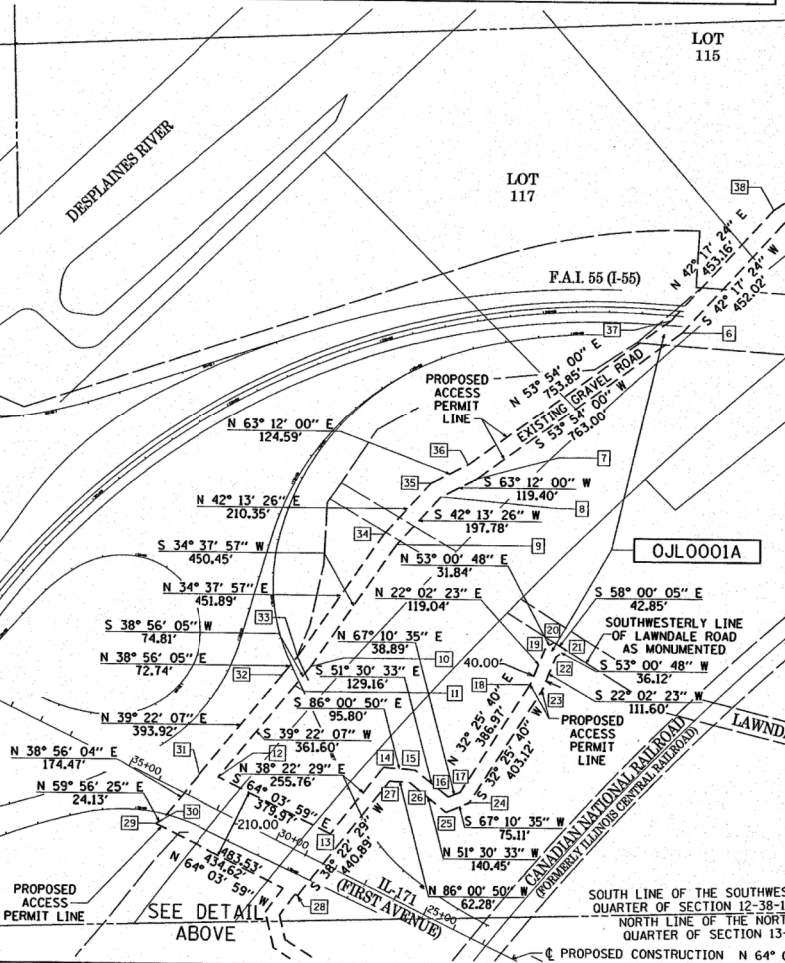
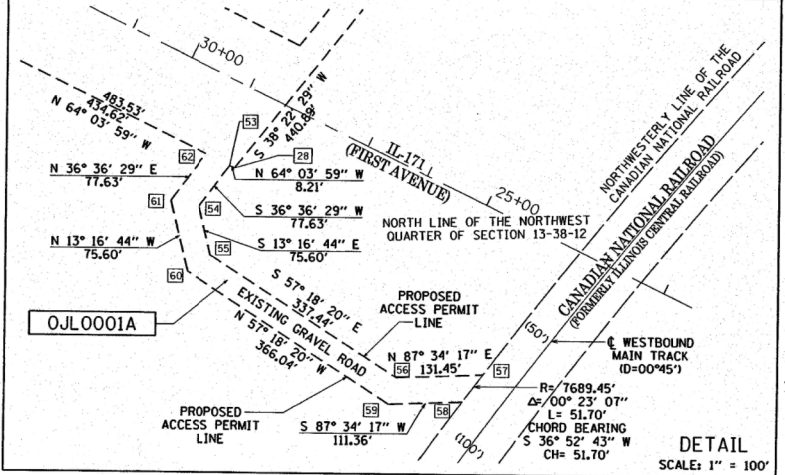
LOCATION MAP
STATION 65 + 00.00 (IL-171) TO
STATION 115 + 00.00 (IL-43)

RECEIVED
AUG 27 2014
PLATS & LEGALS

FILE NAME = ... \ROW\DI60W75-sht-plat-01.dgn	DESIGNED -	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAY		F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = jmajewski	DRAWN -	REVISED -					372/373	2013-037B-R	COOK	787	109
PLOT DATE = 6/17/2015	CHECKED -	REVISED -					CONTRACT NO. 60W75				
DATE = 6/12/2015	DRAWN -	REVISED -	SCALE:		SHEET 1 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

PART OF SECTIONS 12 AND 13, TOWNSHIP 38 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	ACCESS PERMIT AREA ACRES	SQUARE FEET	PERMANENT INDEX NUMBER
OJL0001A	N/A				9.971	434,349	18-12-200-024
							18-12-200-029
							18-12-300-002
							18-12-300-008
							18-12-301-016
							18-13-100-011
OJL0001B	N/A				0.621	27,048	18-12-200-011
							18-12-200-022
							18-12-200-024
							18-12-200-032
							18-12-200-035



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED ACCESS PERMIT LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

GRAPHIC SCALE
FEET
SCALE: 1" = 250'

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011), EAST ZONE, AND THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 12-38-12 BEARS N 01° 37' 05" W

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS).
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

COORDINATES ON THE FOUND CROSS OF PK NAILS AT THE SOUTHEAST CORNER OF THE NORTHEAST QUARTER OF SECTION 12-38-12 HAVE VALUES OF 1,869,887.662 NORTH - 1,129,196.906 EAST AND ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83, EAST ZONE (2011)

STATION	OFFSET	NORTH	EAST	
*1	100+92.52	116.78' LT	1,870,619.833	1,128,976.143
*2	101+43.67	124.92' LT	1,870,670.734	1,128,966.567
*3	101+55.05	116.79' LT	1,870,682.338	1,128,974.377
*4	101+70.67	66.80' LT	1,870,699.350	1,129,023.916
*5	101+70.66	105.64' LT	1,870,698.253	1,128,985.089
*6	101+98.47	85.77' LT	1,870,726.611	1,129,004.177
*7	104+85.30	86.14' LT	1,871,019.600	1,129,004.240
*8	107+72.40	128.57' LT	1,871,312.797	1,128,983.762
*9	110+28.70	91.31' LT	1,871,563.048	1,129,041.029
*10	112+26.48	78.30' LT	1,871,756.352	1,129,061.410
*11	114+76.06	81.78' LT	1,872,002.300	1,129,055.074
*12	114+76.58	59.72' LT	1,872,003.462	1,129,077.112
*13	12+41.18	90.00 RT	1,867,466.967	1,124,801.975
*14	28+61.20	90.00 RT	1,867,300.794	1,125,143.686
*15	28+66.57	120.00 LT	1,867,114.288	1,125,047.019
*16	33+50.10	120.00 LT	1,867,325.751	1,124,612.177
*17	33+36.61	100.00 LT	1,867,337.836	1,124,633.059
*18	32+97.36	70.00 RT	1,867,473.552	1,124,742.702
*19	28+74.78	120.00' LT	1,867,117.878	1,125,039.638
*20	28+89.16	196.28' LT	1,867,055.563	1,124,993.345
*21	28+40.81	254.40' LT	1,866,982.157	1,125,011.415
*22	25+05.72	294.12' LT	1,866,799.888	1,125,295.389
*23	23+90.04	231.68' LT	1,866,805.458	1,125,426.724
*24	23+99.86	282.43' LT	1,866,764.106	1,125,395.700
*25	24+97.85	335.33' LT	1,866,759.388	1,125,284.436
*26	28+61.35	292.24' LT	1,866,957.110	1,124,976.386
*27	29+31.96	207.39' LT	1,867,064.295	1,124,950.002
*28	29+15.48	120.00' LT	1,867,135.679	1,125,003.032

	NORTH	EAST
*2	1,870,324.374	1,128,364.367
*3	1,870,089.685	1,127,927.736
*4	1,869,856.304	1,127,545.640
*5	1,869,159.578	1,126,494.500
*6	1,868,825.193	1,126,190.340
*7	1,868,375.635	1,125,573.839
*8	1,868,321.798	1,125,467.261
*9	1,868,175.341	1,125,334.350
*10	1,867,804.707	1,125,078.355
*11	1,867,746.517	1,125,031.343
*12	1,867,501.304	1,125,302.463
*13	1,867,494.645	1,125,398.027
*14	1,867,414.256	1,125,499.120
*15	1,867,429.341	1,125,534.965
*16	1,867,755.971	1,125,742.473
*17	1,867,866.316	1,125,787.144
*18	1,867,885.469	1,125,812.574
*19	1,867,862.763	1,125,848.914
*20	1,867,841.033	1,125,820.062
*21	1,867,737.591	1,125,778.186
*22	1,867,397.327	1,125,562.017
*23	1,867,368.191	1,125,492.785
*24	1,867,455.605	1,125,382.854
*25	1,867,459.934	1,125,320.726
*26	1,867,778.086	1,124,992.569
*27	1,867,834.668	1,125,038.282
*28	1,868,206.486	1,125,295.095
*29	1,868,362.254	1,125,436.455
*30	1,868,418.430	1,125,547.665
*31	1,868,862.598	1,126,156.773
*32	1,869,197.820	1,126,461.694
*33	1,869,898.492	1,127,518.787
*34	1,870,133.074	1,127,902.850
*35	1,870,368.928	1,128,341.648

ROUTE NAME: IL-171 (FIRST AVENUE) SECTION: 47TH TO 55TH STREET COUNTY: COOK JOB NO.: R-90-011-11 REVISION DATE REVISION MADE BY RECORDING: RECORDED ON

THIS IS TO CERTIFY THAT I, WILLIAM J. FLEMING, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 12 & 13, TOWNSHIP 38 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 27TH DAY OF AUGUST, A.D. 2014.

W. J. Fleming
WILLIAM J. FLEMING
ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3226
LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS OF PRACTICE FOR A BOUNDARY SURVEY.

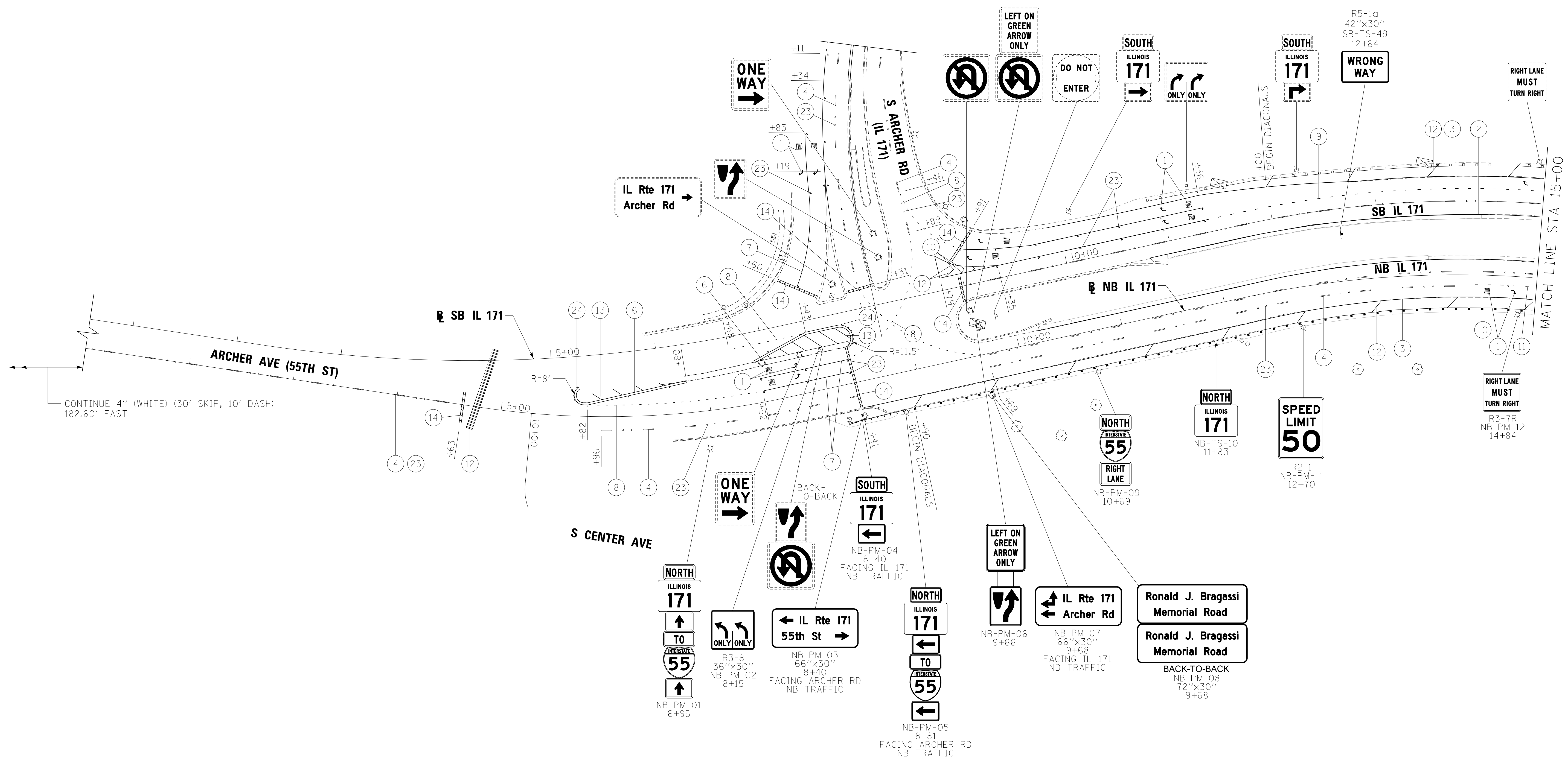
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GRAEF PROJECT
20123007.05

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL-171 (FIRST AVENUE)

SECTION: 47TH TO 55TH COUNTY: COOK
PROJECT: STATION: 35+00.00 IL-171 TO STATION 115+00.00 IL-43 JOB NO.: R-90-011-11
SCALE: 1" = 250' SHEET 2 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

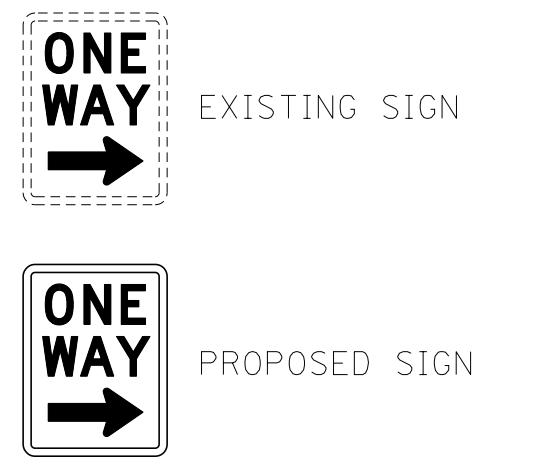


NOTES:

1. POLYUREA PAVEMENT MARKING SHALL BE USED ON ALL PORTLAND CEMENT CONCRETE PAVEMENT. THIS INCLUDES BRIDGE DECKS, APPROACH SLABS, AND BRIDGE APPROACH CONNECTOR PAVEMENT.
2. SHOULDER DIAGONAL SPACING SHALL BE PLACED AT 75' CENTERS. ALL OTHER SPACING PER DISTRICT ONE STANDARD TC-13 UNLESS NOTED ON PLANS.

LEGEND

- | | | | |
|---|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) | ⑲ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (6' SKIP - 2' DASH) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (6' SKIP - 2' DASH) | ⑭ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) | ⑳ POLYUREA PAVEMENT MARKING TYPE I - LINE 8" (WHITE) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (9' SKIP - 3' DASH) | ⑮ POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS | ㉑ POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (WHITE) (9' SKIP - 3' DASH) |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP, 10' DASH) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) | ⑯ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW) | ㉒ POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (WHITE) |
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| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (DOUBLE CENTERLINE) | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (30' SKIP - 10' DASH) | ㉔ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER) |



FILE NAME =	DESIGNED - AG	REVISED -
... \D160W75-sh1-IL171-pmk-NB-01.dgn	DRAWN - TMB	REVISED -
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PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

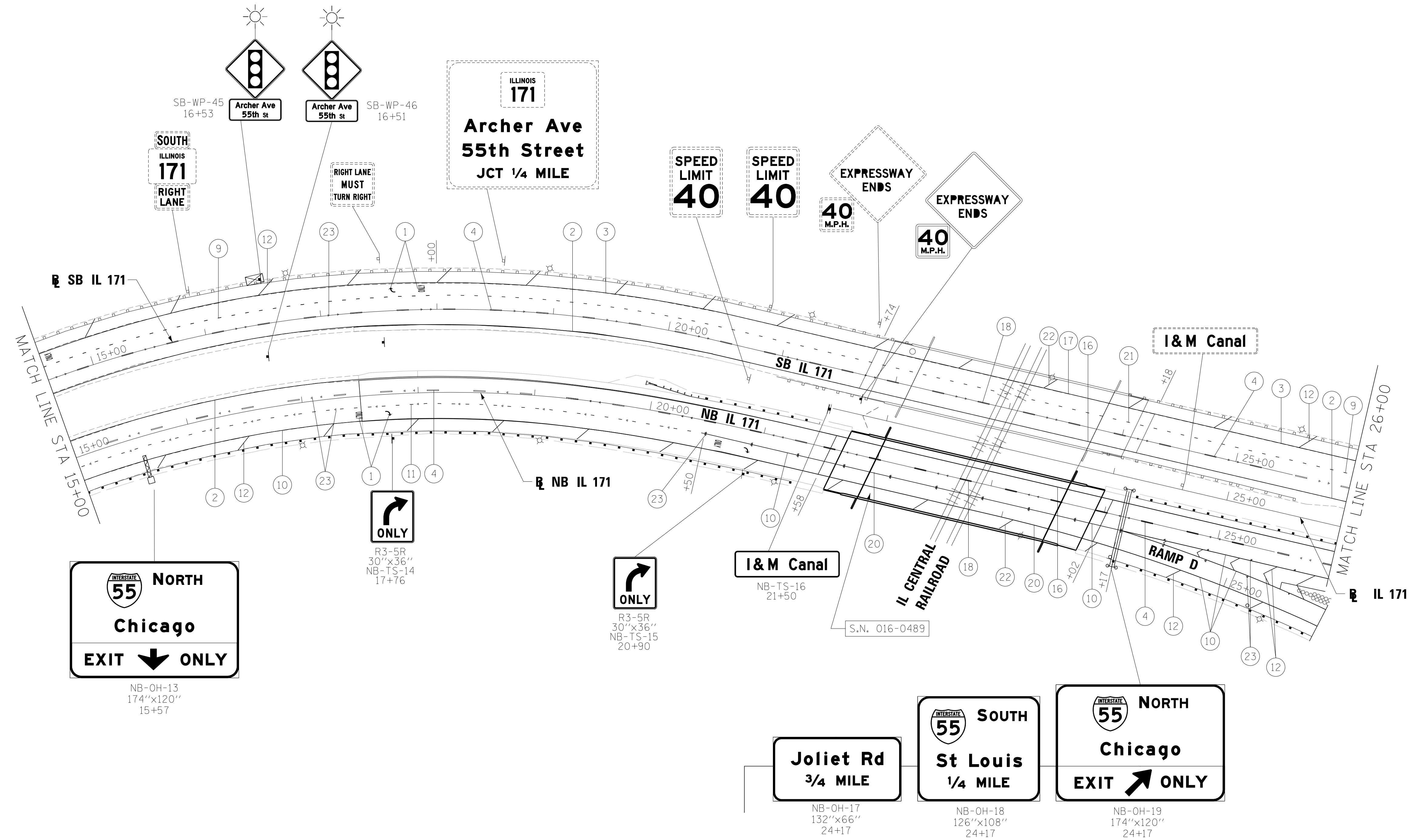
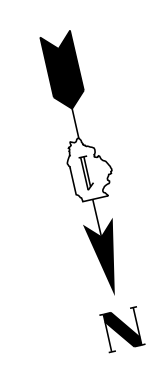


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING PLANS**

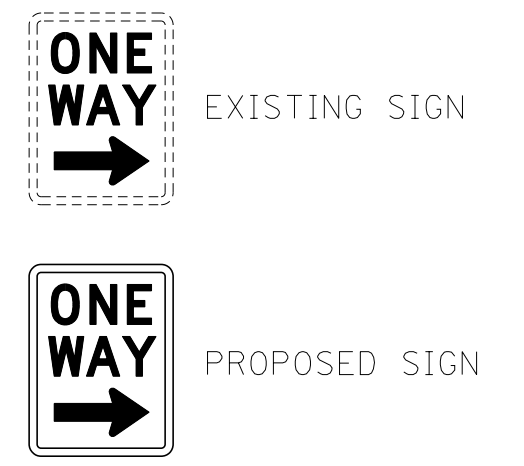
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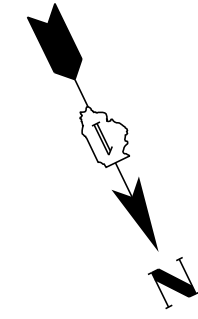
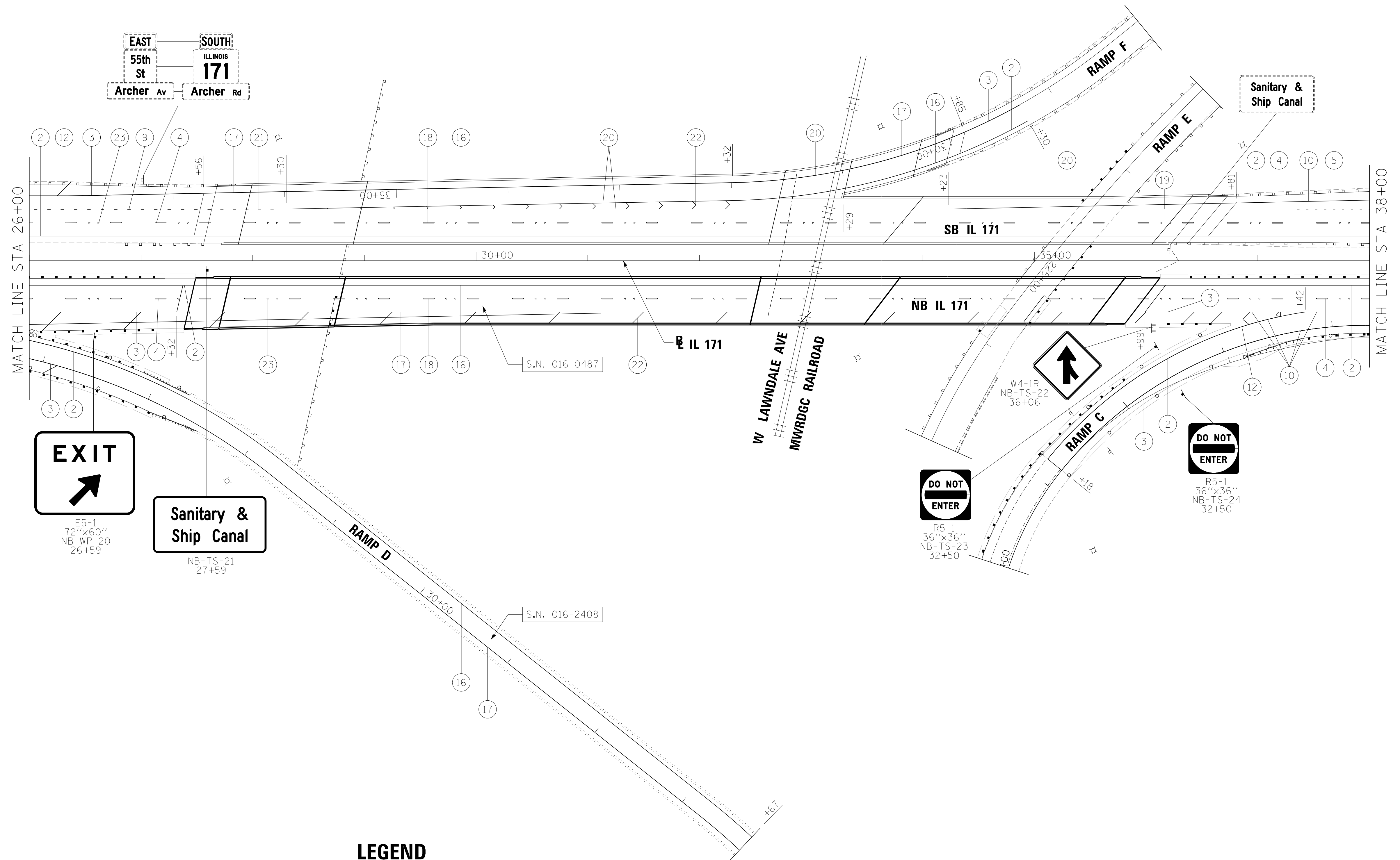
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	111
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



LEGEND

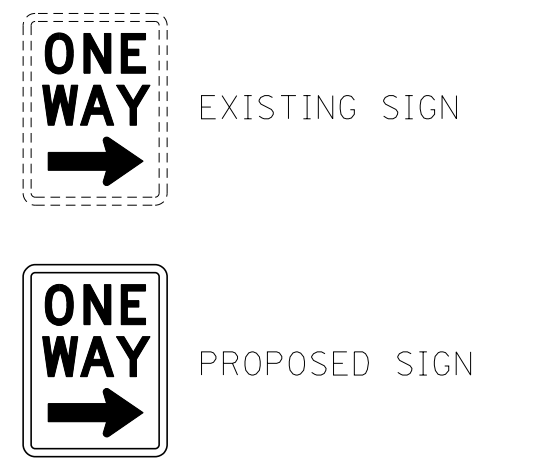
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| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) | ⑲ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (6' SKIP - 2' DASH) |
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LEGEND

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|---|--|--|--|
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PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

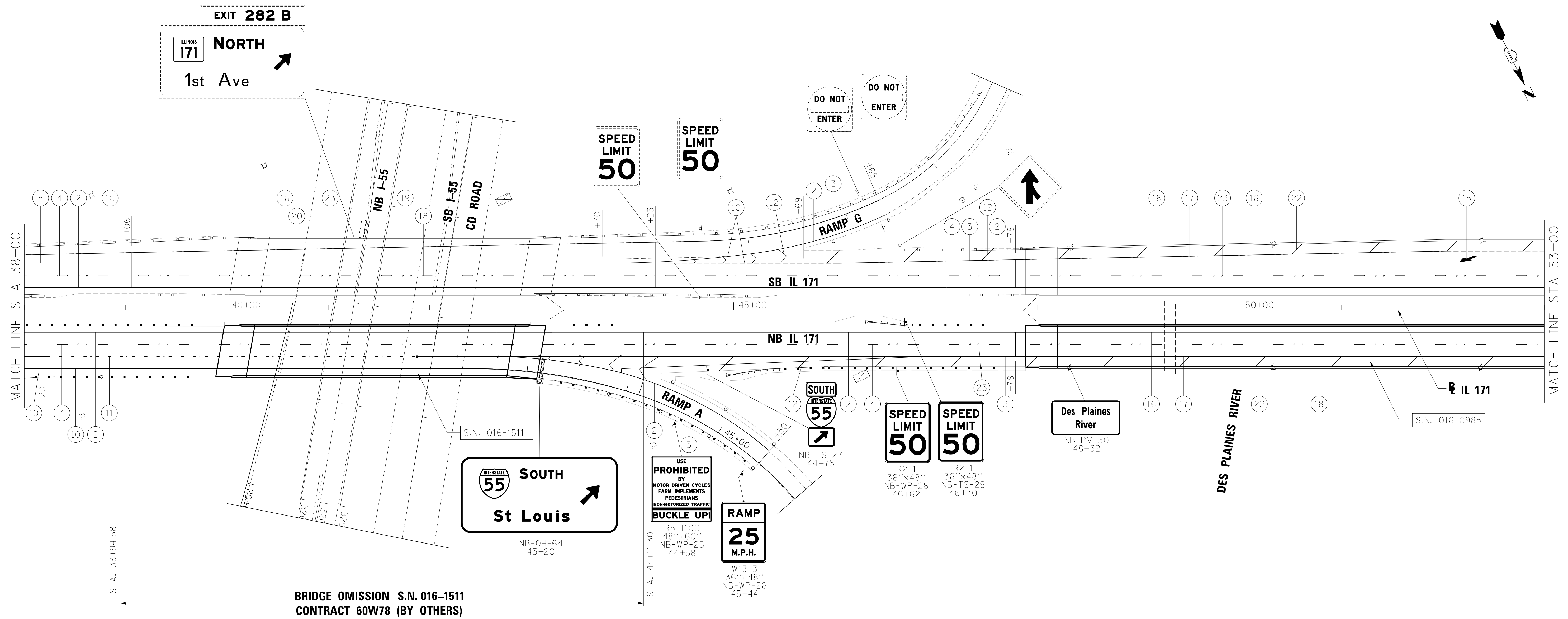


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING PLANS**

SCALE: 1"=50' SHEET 3 OF 9 SHEETS STA. 26+00.00 TO STA. 38+00.00

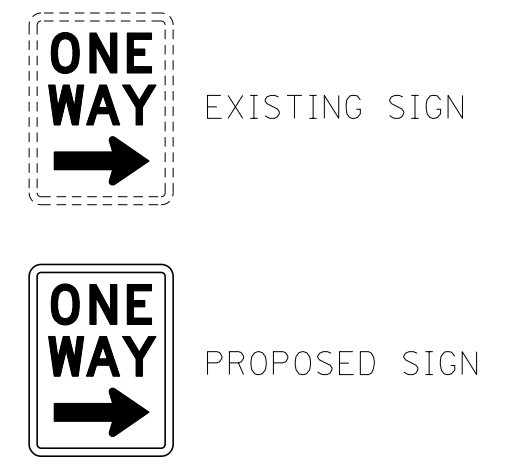
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CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	

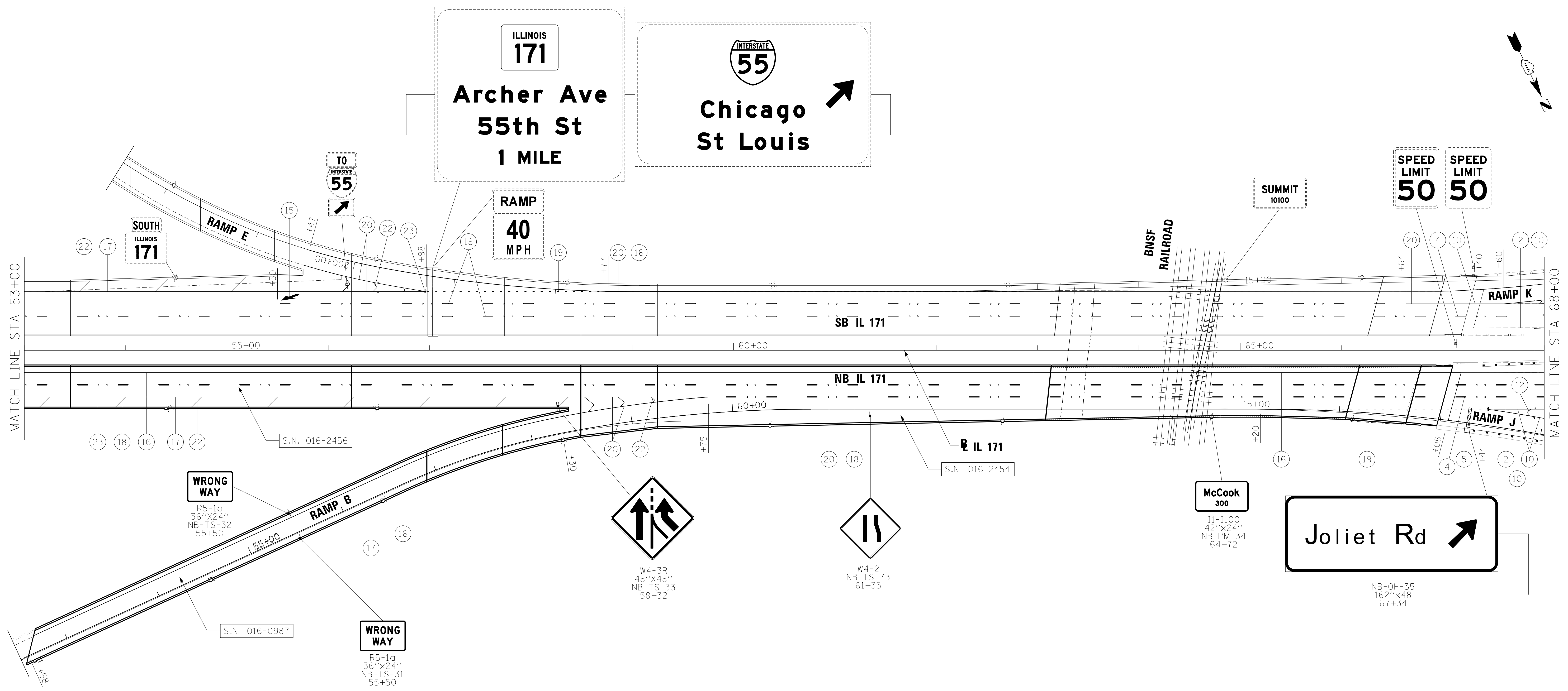
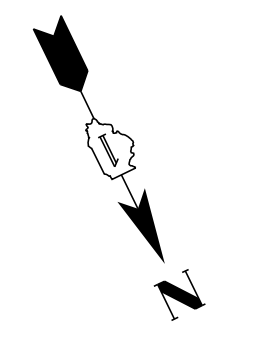


BRIDGE OMISSION S.N. 016-1511
CONTRACT 60W78 (BY OTHERS)

LEGEND

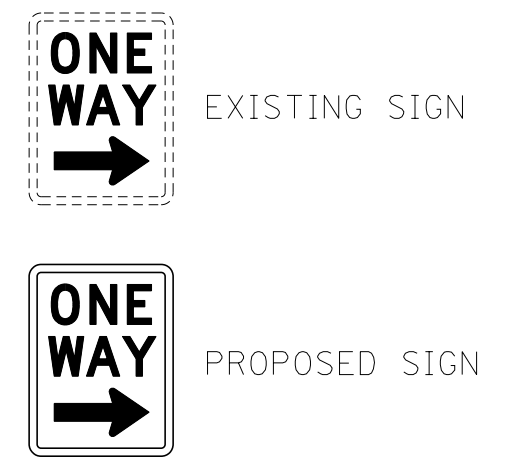
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LEGEND

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|---|--|--|--|
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| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (9' SKIP - 3' DASH) | ⑮ POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS | ㉑ POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (WHITE) (9' SKIP - 3' DASH) |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP, 10' DASH) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) | ⑯ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW) | ㉒ POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (WHITE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (6' SKIP, 2' DASH) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) (9' SKIP - 3' DASH) | ⑰ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) | ㉓ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (DOUBLE CENTERLINE) | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (30' SKIP - 10' DASH) | ㉔ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER) |



FILE NAME =	DESIGNED - AG	REVISED -
... \D160W75-sh1-IL171-pmk-NB-05.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

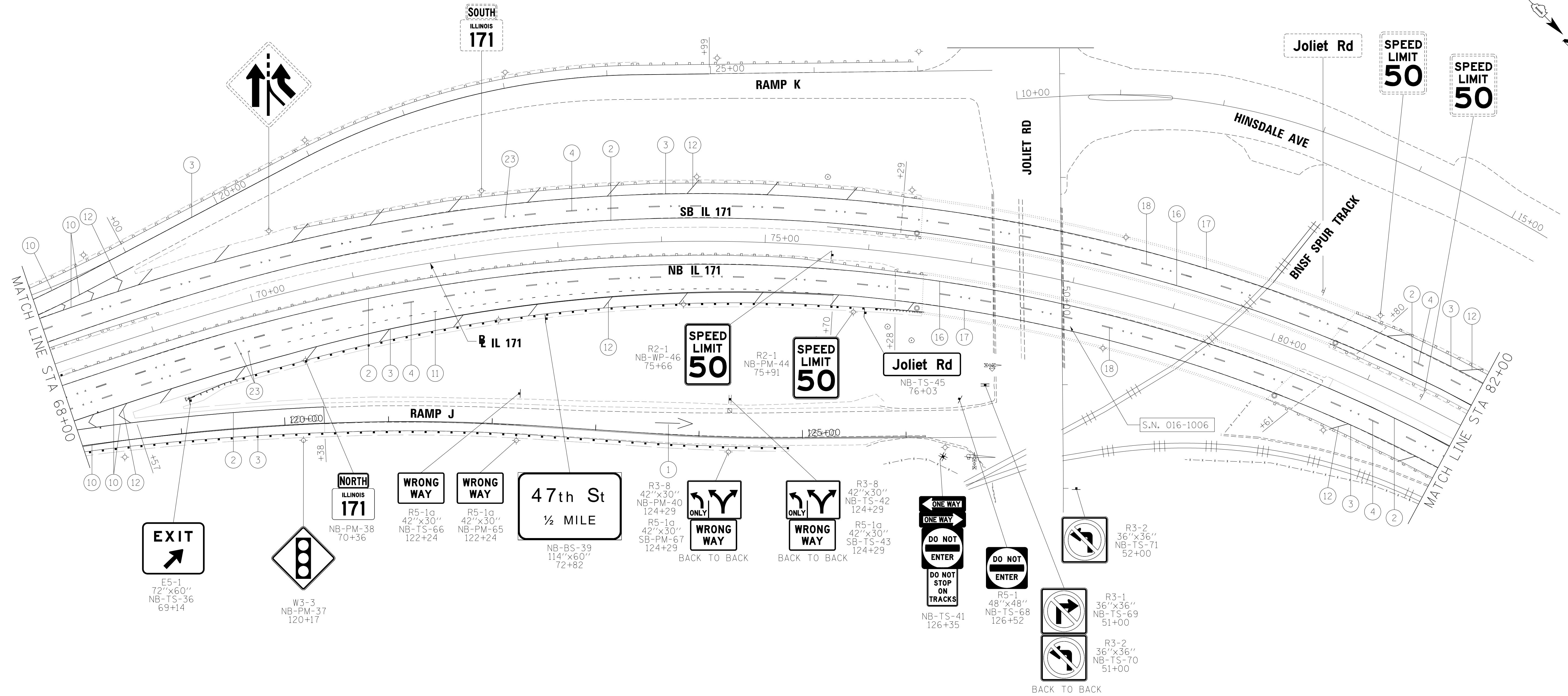
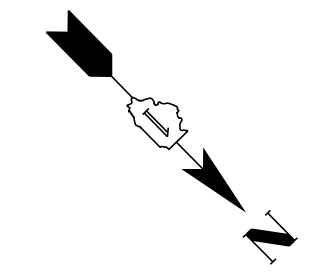


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING PLANS**

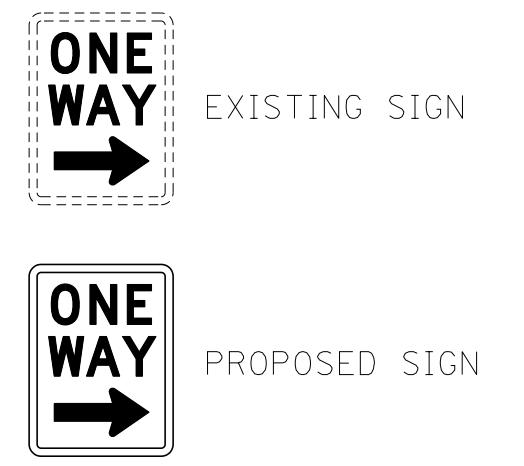
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	115
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				

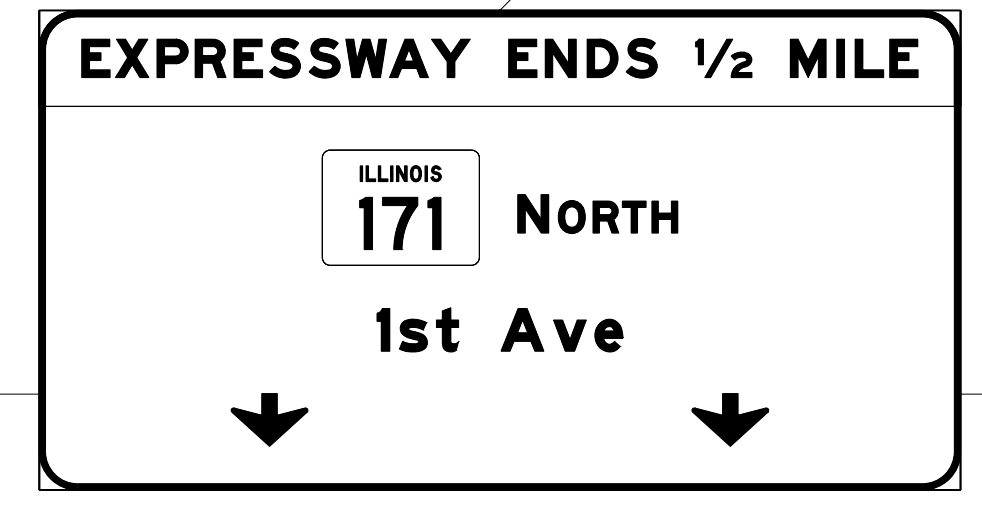
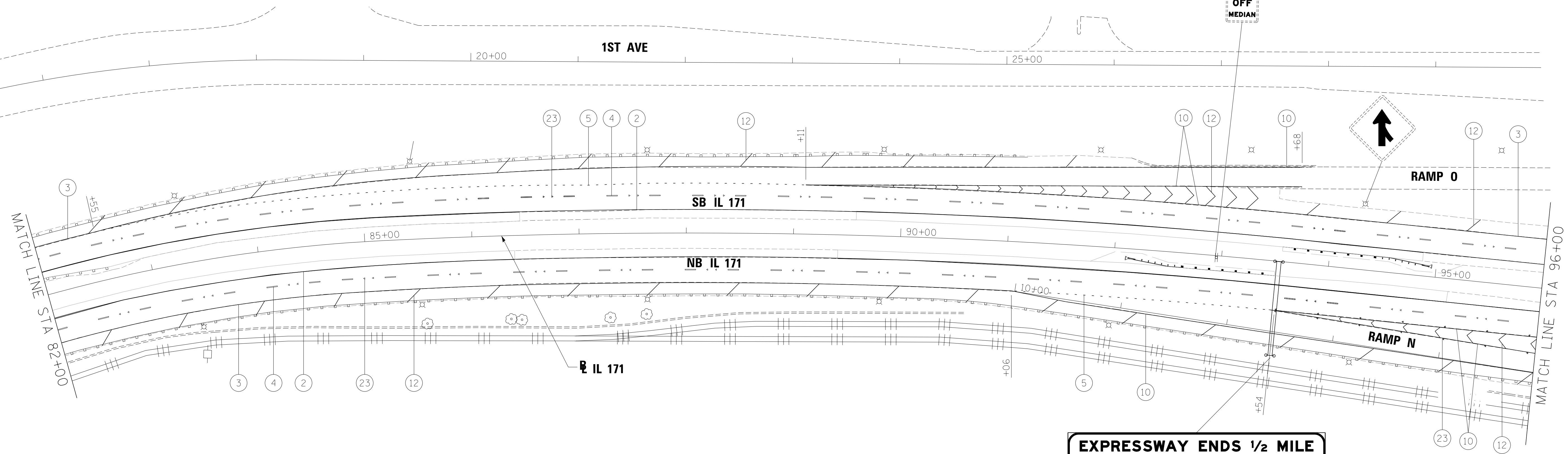
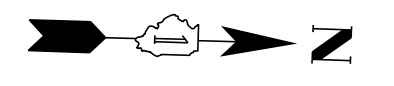
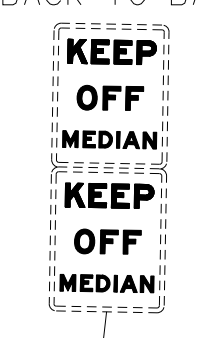


LEGEND

- | | | | |
|---|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) | ⑰ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (6' SKIP - 2' DASH) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (6' SKIP - 2' DASH) | ⑭ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 8" (WHITE) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (9' SKIP - 3' DASH) | ⑮ POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS | ⑲ POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (WHITE) (9' SKIP - 3' DASH) |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP, 10' DASH) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) | ⑯ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW) | ⑳ POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (WHITE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (6' SKIP, 2' DASH) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) (9' SKIP - 3' DASH) | ⑰ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) | ㉑ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (DOUBLE CENTERLINE) | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (30' SKIP - 10' DASH) | ㉒ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER) |



BACK-TO-BACK



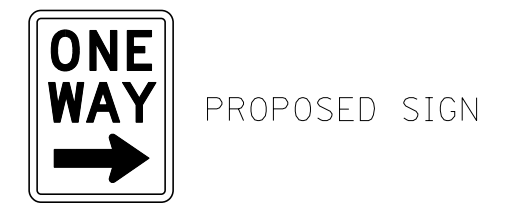
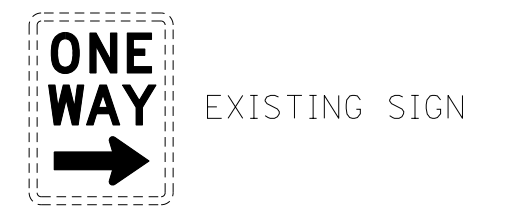
NB-OH-47
288"x150"
93+54



NB-OH-48
150"x42"
93+54

LEGEND

- | | | | |
|---|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) | ⑰ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (6' SKIP - 2' DASH) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (6' SKIP - 2' DASH) | ⑭ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 8" (WHITE) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (9' SKIP - 3' DASH) | ⑮ POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS | ⑲ POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (WHITE) (9' SKIP - 3' DASH) |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP, 10' DASH) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) | ⑯ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW) | ⑳ POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (WHITE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (6' SKIP, 2' DASH) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) (9' SKIP - 3' DASH) | ⑰ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) | ㉑ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (DOUBLE CENTERLINE) | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (30' SKIP - 10' DASH) | ㉒ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER) |



FILE NAME =	DESIGNED - AG	REVISED -
...ND160W75-sh1-IL171-pmk-NB-07.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

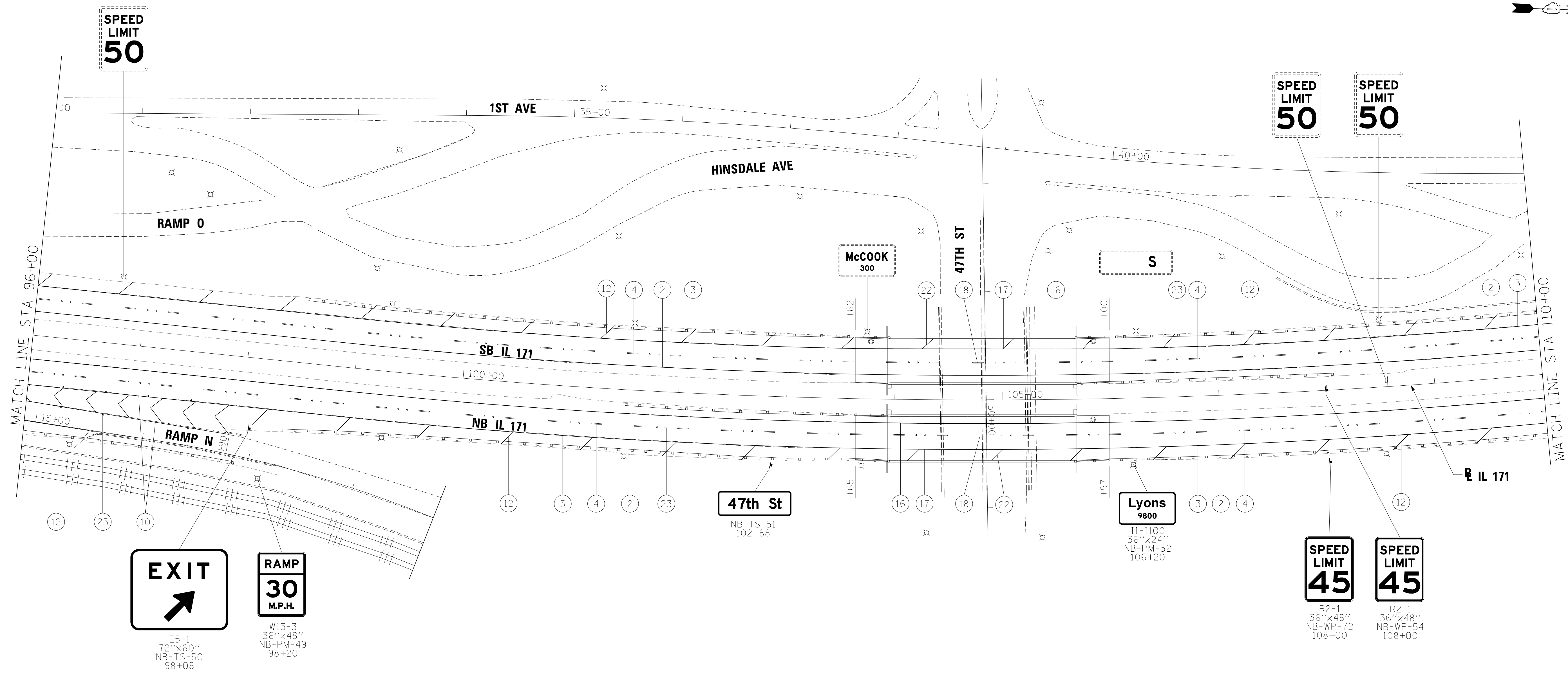
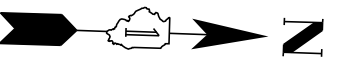


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND
SIGNING PLANS**

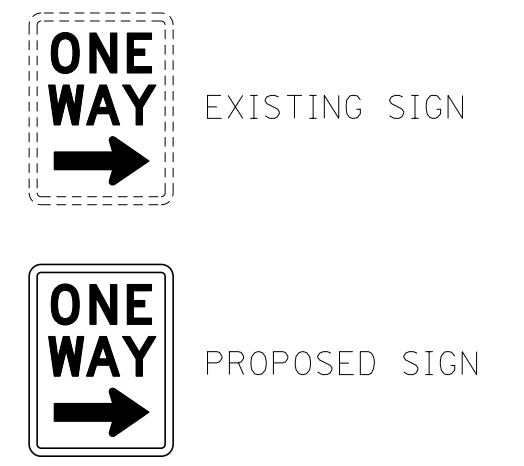
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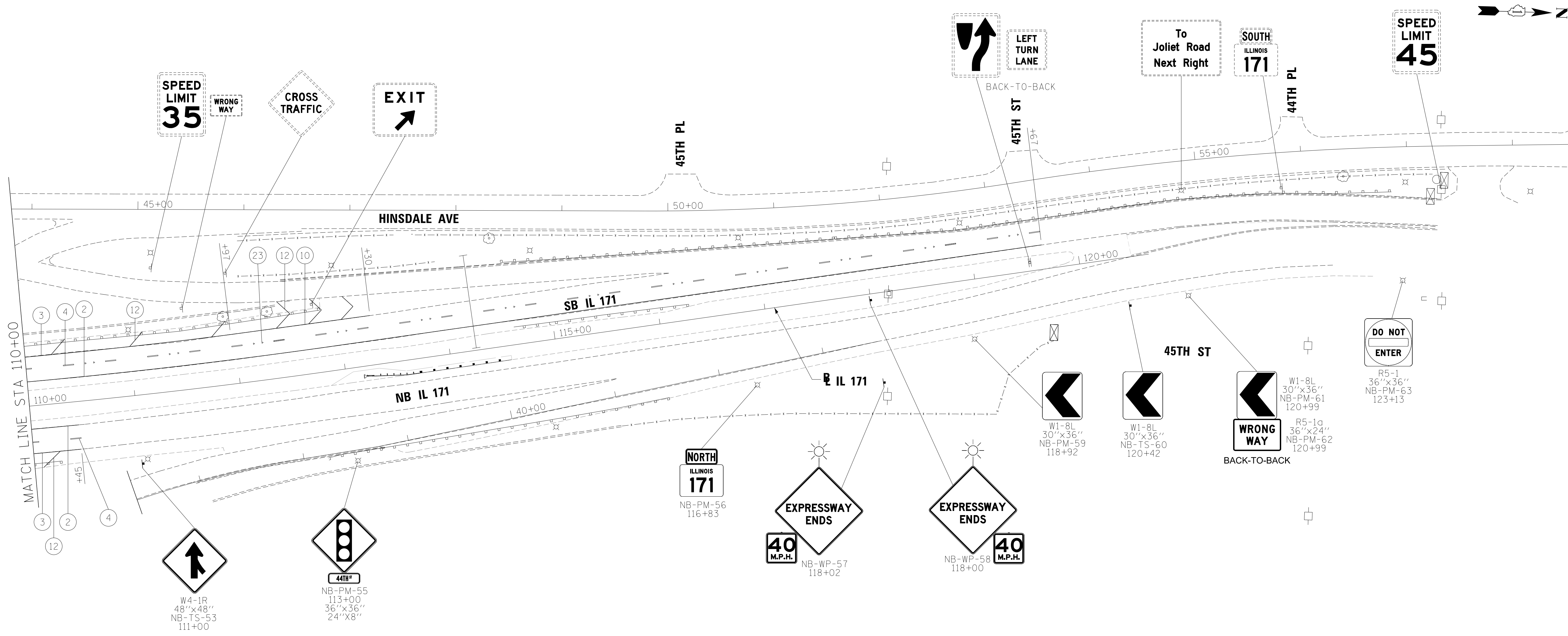
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	117
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



LEGEND

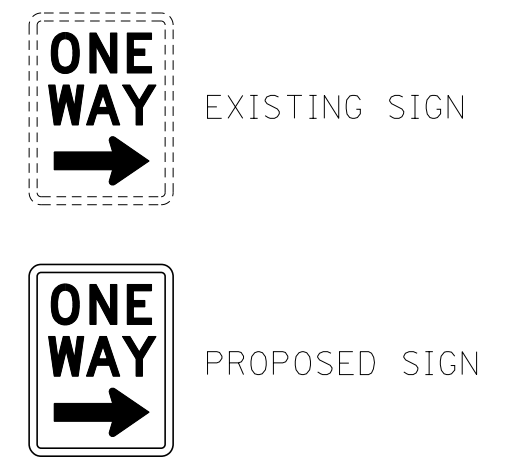
- | | | | |
|---|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) | ⑲ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (6' SKIP - 2' DASH) |
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| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) (9' SKIP - 3' DASH) | ⑮ POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS | ㉑ POLYUREA PAVEMENT MARKING TYPE I - LINE 6" (WHITE) (9' SKIP - 3' DASH) |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) (30' SKIP, 10' DASH) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) | ⑯ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW) | ㉒ POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (WHITE) |
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| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (DOUBLE CENTERLINE) | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (30' SKIP - 10' DASH) | ㉔ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER) |













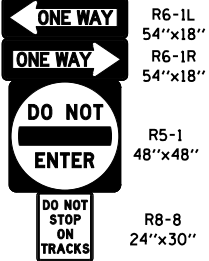




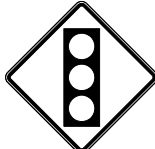
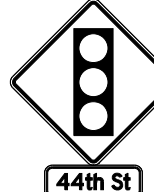







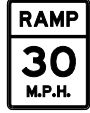






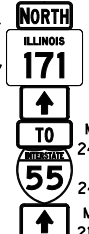
LEGEND

- | | | | |
|---|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) | ⑲ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (6' SKIP - 2' DASH) |
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| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (DOUBLE CENTERLINE) | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) | ⑱ POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (WHITE) (30' SKIP - 10' DASH) | ㉔ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER) |



 R2-1 36"x48"		 R2-1 36"x48"		 R3-1 36"x36"		 R3-2 36"x36"		 R3-5R 30"x36"		 R3-7R 36"x36"		 R3-8 42"x30"		 R3-8 36"x30"		 R5-1 36"x36"		 R5-1 48"x48"	
NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION
NB-PM-11	12+70 RT	NB-WP-54	108+00 RT	NB-TS-69	51+00 RT	NB-TS-70	51+00 RT	NB-TS-14	17+76 RT	NB-PM-12	14+84 RT	NB-PM-40	124+29 RT	NB-PM-02	8+15 LT	NB-TS-23	32+50 LT	NB-TS-68	126+52 LT
NB-WP-28	46+62 RT	NB-WP-72	108+00 RT			NB-TS-71	52+00 LT	NB-TS-15	20+90 RT			NB-TS-42	124+29 LT			NB-TS-24	32+50 RT		
NB-TS-29	46+70 RT															NB-PM-63	123+13 RT		
NB-PM-44	75+91 RT																		
NB-WP-46	75+66 RT																		

 R6-1L 54"x18" R6-1R 54"x18" R5-1 48"x48" R8-8 24"x30"		 R5-1a 36"x24"		 R5-1a 42"x30"		 R5-1100 48"x60"		 W1-8L 30"x36"		 W3-3 36"x36"		 W3-3 36"x36" W16-8P 24"x8" 44th St		 W3-3 36"x36" W16-8P 36"x15" Archer Ave 55th st		 W4-1R 48"x48"		 W4-2 48"x48"	
NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION
NB-TS-41	126+35 RT	NB-TS-31	55+50 RT	NB-PM-65	122+24 RT	NB-WP-25	44+58 RT	NB-PM-59	118+92 RT	NB-PM-37	120+17 RT	NB-PM-55	113+00 RT	SB-WP-45	16+53 LT	NB-TS-22	36+06 RT	NB-TS-73	61+35 RT
		NB-TS-32	55+50 LT	NB-TS-66	122+24 LT			NB-TS-60	120+42 RT					SB-WP-46	16+51 RT	NB-TS-53	111+00 RT		
		NB-PM-62	120+99 RT	NB-PM-67	124+29 RT			NB-PM-61	120+99 RT										
				NB-TS-43	124+29 LT														
				SB-TS-49	12+64 RT														

 W4-3R 48"x48"		 W13-3 36"x48"		 W13-3 36"x48"		 W19-4 48"x48"		 M3-1 24"x12" M1-5 48"x36"		 M3-3 24"x12" M1-5 36"x48" M6-1 21"x15"		 M3-1 (INTERSTATE) 24"x12" M1-1 24"x24" M5-6 (INTERSTATE) 24"x18"		 M3-3 (INTERSTATE) 24"x12" M1-1 24"x24" M6-2 (INTERSTATE) 21"x15"		 E5-1 72"x60"		 M3-1 24"x12" M1-5 36"x48" M6-3 21"x15" M4-5 (INTERSTATE) 24"x12" M1-1 24"x24" M6-3 (INTERSTATE) 21"x15"	
NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION
NB-TS-33	58+32 RT	NB-WP-26	45+44 RT	NB-PM-49	98+20 RT	NB-WP-57	118+02 RT	NB-TS-10	11+83 RT	NB-PM-04	8+40 RT	NB-PM-09	10+69 RT	NB-TS-27	44+75 RT	NB-WP-20	26+59 RT	NB-PM-01	6+95 RT
						NB-WP-58	118+00 RT	NB-PM-38	70+36 RT							NB-TS-36	69+14 RT		
						SB-WP-43	21+75 RT	NB-PM-56	116+83 RT							NB-TS-50	98+08 RT		

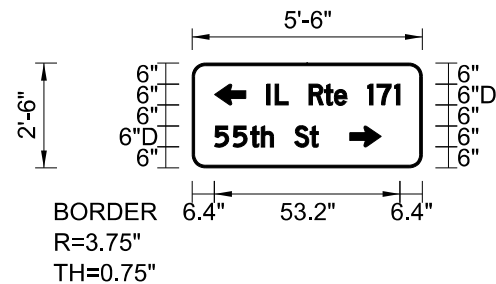
M3-1 24"x12" M1-5 36"x48" M6-1 21"x15" M4-5 (INTERSTATE) 24"x12" M1-1 24"x24" M6-3 (INTERSTATE) 21"x15"	LEFT ON GREEN ARROW ONLY R10-5 30"x36" R4-7 24"x30" 12" GAP BETWEEN THE SIGNS	McCook 300 I1-I100 42"x24"	Lyons 9800 I1-I100 36"x24"
--	--	--	--

NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION												
NB-PM-05	8+81 RT	NB-PM-06	9+66 LT	NB-PM-34	64+72 RT	NB-PM-52	106+20 RT												

FILE NAME =	DESIGNED - MW	REVISED -	 LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 171 SIGNING DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - MW	REVISED -	373				2013-037B-R	COOK	787	121	
USER NAME = Plotted by Bobby	CHECKED - ST	REVISED -				CONTRACT NO. 60W75				
PLOT DATE = 8/24/2015	DATE - 6/12/2015	REVISED -	SCALE: N.T.S. SHEET 2 OF 21 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				

SIGN DETAIL

1:50



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

Panel Style: Guide_Sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-PM-03, STA 8+40 RT
WIDTH x HGHT.	5'-6" x 2'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	3.75"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARUP	90	6.4	18	6	9
ARUP	270	45.2	6	6	9

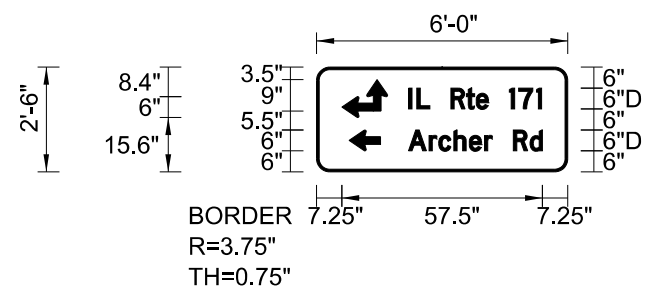
LETTER POSITIONS (X)

LENGTH SERIES SIZE

Letter	L	R	t	e	1	7	1	Length	Series Size
I	21.4	33.5	38	40.8	50.3	53	58.1	38.2	D 2000 6,64.5
S	6.4	11.7	16.8	19.8	29.4	33.8		29.8	D 2000 6,64.5

SIGN DETAIL

1:50



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

Panel Style: Guide_Sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-PM-07, STA 9+68 RT
WIDTH x HGHT.	6'-0" x 2'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	3.75"
MOUNTING	Ground
BACKGROUND	TYPE: ZZ Sheeting COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
ARUP	180	14.4	17.4	6	9
ARUP	270	7.2	15.6	6	9
ARUP	270	9.3	6	6	9

LETTER POSITIONS (X)

LENGTH SERIES SIZE

Letter	X	Y	Length	Series Size
I	26.4	38.2	38.2	D 2000
L	28.8	38.2	6,64.5	
R	38.5	38.2	6,64.5	
t	42.9	38.2	6,64.5	
e	45.7	38.2	6,64.5	
1	55.3	38.2	6,64.5	
7	57.9	38.2	6,64.5	
1	63	38.2	6,64.5	
A	26.4	38.4	38.4	D 2000
r	32.2	38.4	64.5	
c	35	38.4	64.5	
h	39.3	38.4	64.5	
e	43.8	38.4	64.5	
r	48.1	38.4	64.5	
R	56.4	38.4	64.5	
d	61.2	38.4	64.5	

FILE NAME =	DESIGNED - MW	REVISED -
	DRAWN - MW	REVISED -
USER NAME = Plotted by Bobby	CHECKED - ST	REVISED -
PLOT DATE = 8/24/2015	DATE - 6/12/2015	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

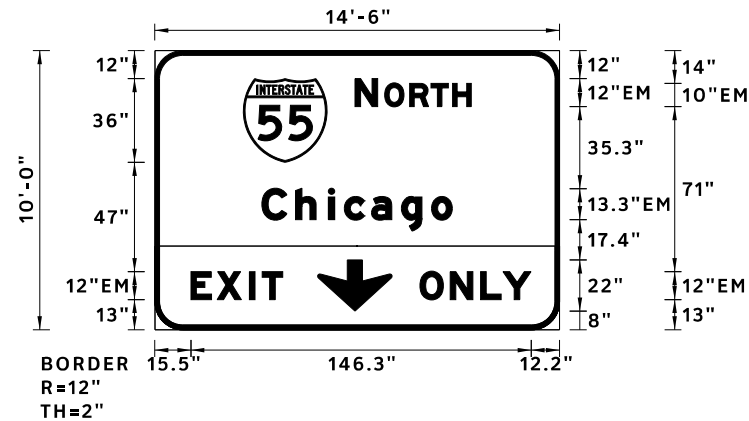
IL ROUTE 171
SIGNING DETAILS

SCALE: N.T.S. SHEET 4 OF 21 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-037B-R	COOK	787	123
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	

SIGN DETAIL

1:75



Panel Style: guide_exp_overhead.ssi
M.U.T.C.D.: 2003 Edition

Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

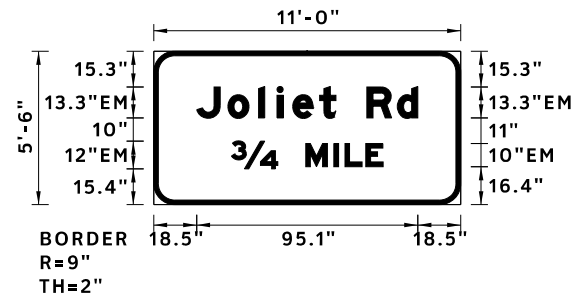
SIGN NUMBER	NB-OH-13, STA 15+57 RT
WIDTH x HGHT.	14'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Sheeting COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: Black,White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	38	72	36	36
DOWN_ARROW	0	70	8	32	22

LETTER POSITIONS (X)															LENGTH	SERIESSIZE		
N	O	R	T	H												EM 2000		
86.1	98.8	109.6	118.8	128												50	12,10	
C	h	i	c	a	g	o											EM 2000	
46	60.5	74.6	81.4	93.1	106	118.9											81.9	13,39.7
E	X	I	T														EM 2000	
15.5	26.7	40.7	46.1														39.5	12
O	N	L	Y														EM 2000	
114	127	140.1	149.7														47.8	12

SIGN DETAIL

1:75



Panel Style: guide_con_distance_edited.ssi
M.U.T.C.D.: 2003 Edition

Panel Style: guide_con_distance_edited.ssi
Dimensions are in inches.tenths

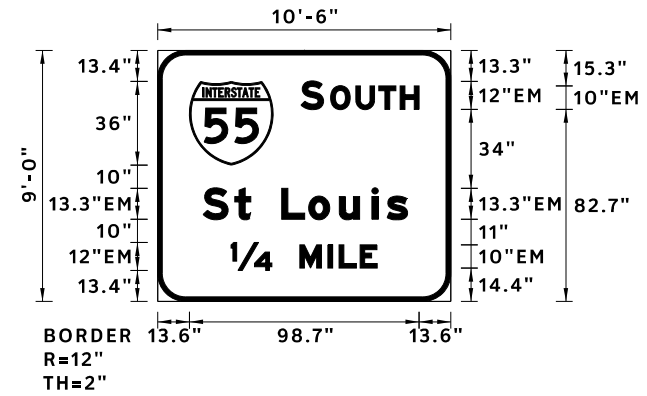
Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-OH-17, STA 24+17 RT
WIDTH x HGHT.	11'-0" x 5'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Sheeting COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WD	HT

LETTER POSITIONS (X)													LENGTH		SERIES SIZE		
J	o	l	i	e	t	R	d										EM 2000
18.5	31.9	45.1	53	59.8	71.4	91.6	104.8							95.1			13.39.7
3/4	M	I	L	E													EM 2000
33.4	65.4	77.5	82.3	91.3										65.3			12.10

SIGN DETAIL
1:75



Panel Style: guide_con_distance_edited.ssi
M.U.T.C.D.: 2003 Edition

Panel Style: guide_con_distance_edited.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-OH-18, STA 24+17 RT
WIDTH x HGHT.	10'-6" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: WhiteWhite

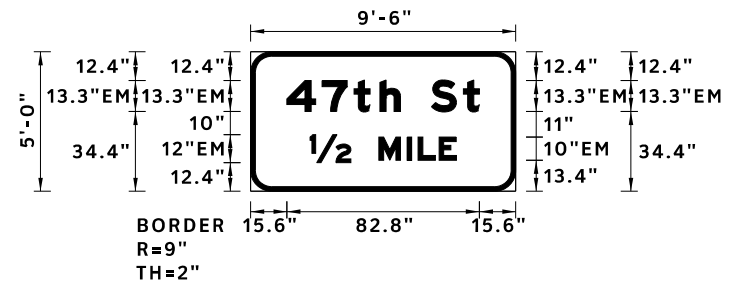
SYMBOL	ROT	X	Y	WD	HT
M1_1	0	13.6	58.6	36	36

LETTER POSITIONS (X)

																		LENGTH	SERIESIZE
S	O	U	T	H														50.7	EM 2000
61.7	74.4	85.2	95.1	104.3														87.9	13,39.7
S	t	L	o	u	i	s												62.9	EM 2000
19.5	33.1	53.3	64.9	78.1	92.2	98.7												12,10	12,10
14	M	I	L	E															
31.5	61.1	73.2	78	87															

SIGN DETAIL

1:75



Panel Style: guide_con_distance_edited.ssi
M.U.T.C.D.: 2003 Edition

Panel Style: guide_con_distance_edited.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-BS-39, STA 72+82 RT
WIDTH x HGHT.	9'-6" x 5'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Sheeting COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																						LENGTH	SERIES/SIZE
4	7	t	h	S	t																		EM 2000
15.6	30.7	44.4	55.6	77.7	91.5																	82.8	13.3,13.39.7
12	M	I	L	E																			EM 2000
25.6	55.2	67.3	72.1	81.1																		62.9	12,10

SIGN DETAIL
1:75



Panel Style: guide_con_distance_edited.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	NB-OH-64, STA 43+20 RT
WIDTH x HGHT.	15'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	21.7	40.3	36	36
ARMED	45	141.6	33.6	18.3	29.3

LETTER POSITIONS (X)


LENGTH SERIES SIZE

Letter	X	Y	WID	HT	Series Size
S	69.7	40.3	36	36	EM 2000
O	82.4	40.3	36	36	EM 2000
U	93.2	40.3	36	36	EM 2000
T	103.1	40.3	36	36	EM 2000
H	112.3	40.3	36	36	EM 2000
S	39.1	89.5	13.3	10	EM 2000
t	52.6	89.5	13.3	10	EM 2000
L	72.9	89.5	13.3	10	EM 2000
o	86	89.5	13.3	10	EM 2000
u	99.2	89.5	13.3	10	EM 2000
i	113.3	89.5	13.3	10	EM 2000
s	119.8	89.5	13.3	10	EM 2000

SIGN SCHEDULE					72000100	72000200	72000300	72400100	72400200	7240310	7240320	7240330	72700100	72800100	73000100	73100100	73400100	73600100	73600200	73700100	73700200	73700300	X0326865	X7310110					
					SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 3	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT	BASE FOR TELESCOPING SIGN SUPPORT	CONCRETE FOUNDATIONS	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION GROUND MOUNT	REMOVE CONCRETE FOUNDATION OVERHEAD	POST MOUNTED FLASHING BEACON INSTALLATION	BASE FOR TELESCOPING SIGN SUPPORT, SPECIAL					
SIGN NAME	STATION	OFFSET	ALIGNMENT	DESCRIPTION	WIDTH (FT)	HEIGHT (FT)	SQ FT	SQ FT	SQ FT	EACH	EACH	SQ FT	SQ FT	SQ FT	POUND	FOOT	FOOT	EACH	CU YD	EACH	EACH	EACH	EACH	EACH					
NB-PM-01	6+95	RT	IL 171 NB	M3-1	2.00	1.00	2.00					2.00																	
				M1-5	3.00	4.00		12.00						12.00															
				M6-3	1.75	1.25	2.19								2.19														
				M4-5	2.00	1.00	2.00								2.00														
				M1-1	2.00	2.00	4.00								4.00														
NB-PM-02	8+15	LT	IL 171 NB	R3-8	3.00	2.50	7.50					7.50																	
				NB-PM-03	8+40	RT	IL 171 NB	Guide Sign	5.50	2.50		13.75				15.00													
NB-PM-04	8+40	RT	IL 171 NB	M3-3	2.00	1.00	2.00					2.00																	
				M1-5	3.00	4.00		12.00						12.00															
				M6-1	1.75	1.25	2.19								2.19														
NB-PM-05	8+81	RT	IL 171 NB	M3-1	2.00	1.00	2.00					2.00																	
				M1-5	3.00	4.00		12.00						12.00															
				M6-1	1.75	1.25	2.19								2.19														
				M4-5	2.00	1.00	2.00								2.00														
				M1-1	2.00	2.00	4.00								4.00														
NB-PM-06	9+66	LT	IL 171 NB	R10-5	2.50	3.00	7.50					7.50																	
				R4-7	2.00	2.50	5.00								5.00														
NB-PM-07	9+68	RT	IL 171 NB	Guide Sign	6.00	2.50		15.00					15.00																
NB-PM-08	9+68	RT	IL 171 NB	Guide Sign	6.00	2.50		15.00					21.25																
NB-PM-08	9+68	RT	IL 171 NB	Guide Sign	6.00	2.50		15.00					21.25																
NB-PM-09	10+69	RT	IL 171 NB	M3-1	2.00	1.00	2.00					2.00																	
				IL 171 NB	M1-1	2.00	2.00	4.00						4.00															
				IL 171 NB	M5-6	2.00	1.50	3.00						3.00															
NB-TS-10	11+83	RT	IL 171 NB	M3-1	2.00	1.00	2.00					2.00																	
				IL 171 NB	M1-5	4.00	3.00		12.00						12.00						13.0								
SB-TS-49	12+64	RT	IL 171 SB	R5-1a	3.50	2.50	8.75																						
NB-PM-11	12+70	RT	IL 171 NB	R2-1	3.00	4.00		12.00					12.00																
NB-PM-12	14-84	RT	IL 171 NB	R3-7R	3.00	3.00	9.00					9.00																	
NB-OH-13	15+57	RT	IL 171 NB	Guide Sign	14.50	10.00			145.00					145.00							2	2							
SB-WP-45	16+53	LT	IL 171 SB	W3-3	3.00	3.00	9.00																						
				W16-8P	3.00	1.25	3.75											17.5									1		
SB-WP-46	16+51	RT	IL 171 SB	W3-3	3.00	3.00	9.00																						
				W16-8P	3.00	1.25	3.75											16.1										1	
NB-TS-14	17+76	RT	IL 171 NB	R3-5R	2.50	3.00	7.50					7.50						16.0											
NB-TS-15	20+90	RT	IL 171 NB	R3-5R	2.50	3.00	7.50					7.50						16.0											
NB-TS-16	21+50	LT	IL 171 NB	Guide Sign	6.00	1.50	9.00			1								28.0											
SB-WP-43	21+75	RT	IL 171 SB	W13-1P	2.00	2.00	4.00																						
				W19-4	4.00	4.00		16.00											32.0										
NB-OH-17	24+17	RT	IL 171 NB	Guide Sign	11.00	5.50			60.50					60.50															
NB-OH-18	24+17	RT	IL 171 NB	Guide Sign	10.50	9.00			94.50					94.50															
NB-OH-19	24+17	RT	IL 171 NB	Guide Sign	14.50	10.00			145.00					145.00															
NB-WP-20	26+59	RT	IL 171 NB	E5-1	6.00	5.00			30.00																				
NB-TS-21	27+59	RT	IL 171 NB	Guide Sign	3.00	1.50	4.50					1																	
NB-TS-22	36+06	RT	IL 171 NB	W4-1R	4.00	4.00		16.00				1						12.3											
NB-TS-23	32+50	LT	RAMP C	R5-1	3.00	3.00	9.00					1						16.9											
NB-TS-24	32+50	RT	RAMP C	R5-1	3.00	3.00	9.00					1						12.4											
NB-OH-64	43+20	RT	IL 171 NB	Guide Sign	15.50	7.50			116.25					116.25															
NB-WP-25	44+58	RT	RAMP A	R5-1100	4.00	5.00		20.00				1						33.8											
NB-WP-26	45+44	RT	RAMP A	W13-3	3.00	4.00		12.00				1						17.3											
NB-TS-27	44+75	RT	IL 171 NB	M3-3	2.00	1.00	2.00																						
				M1-1	2.00	2.00	4.00												14.9										
				M6-2	1.75	1.25	2.19																						
NB-WP-28	46+62	RT	IL 171 NB	R2-1	3.00	4.00		12.00				1						16.7											
NB-TS-29	46+70	RT	IL 171 NB	R2-1	3.00	4.00		12.00				1						16.0											
NB-PM-30	48+32	RT	IL 171 NB	Guide Sign	3.00	1.50	4.50					4.50																	

SIGN SCHEDULE					SIGN AREA		72000100	72000200	72000300	72400100	72400200	7240310	7240320	7240330	72700100	72800100	73000100	73100100	73400100	73600100	73600200	73700100	73700200	73700300	X0326865	X7310110
					SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 3	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT	BASE FOR TELESCOPING SIGN SUPPORT	CONCRETE FOUNDATIONS	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	REMOVE CONCRETE FOUNDATION - OVERHEAD	POST MOUNTED FLASHING BEACON INSTALLATION	BASE FOR TELESCOPING SIGN SUPPORT, SPECIAL		
SIGN NAME	STATION	OFFSET	ALIGNMENT	DESCRIPTION	WIDTH (FT)	HEIGHT (FT)	SQ.FT	SQ.FT	SQ.FT	EACH	EACH	SQ.FT	SQ.FT	SQ.FT	POUND	FOOT	FOOT	EACH	CU YD	EACH	EACH	EACH	EACH	EACH	EACH	
NB-TS-31	55+50	RT	RAMP B	R5-1a	3.00	2.00	6.00			1						9.0									1	
NB-TS-32	55+50	LT	RAMP B	R5-1a	3.00	2.00	6.00			1						9.0									1	
NB-TS-33	58+32	RT	RAMP B	W4-3R	4.00	4.00		16.00			1					13.0		1								
NB-TS-73	61+30	RT	IL 171 NB	W4-2	4.00	4.00		16.00								11.0									1	
NB-PM-34	64+72	RT	IL 171 NB	I1-I100	3.50	2.00	7.00				7.00															
NB-OH-35	67+34	RT	IL 171 NB	Guide Sign	13.50	4.00			54.00					54.00						1				1		
NB-TS-36	69+14	RT	IL 171 NB	E5-1	6.00	5.00			30.00							36.3										
NB-PM-37	120+17	RT	RAMP J	W3-3	3.00	3.00	9.00					16.00														
NB-PM-38	70+36	RT	IL 171 NB	M3-1	2.00	1.00	2.00					2.00														
NB-PM-38	70+36	RT	IL 171 NB	M1-5	4.00	3.00		12.00				12.00														
NB-BS-39	72+82	RT	IL 171 NB	Guide Sign	9.50	5.00			47.50					47.50	594.3				1.4			2	2			
NB-PM-40	124+29	RT	RAMP J	R3-8	3.50	2.50	8.75					10.00														
NB-TS-41	126+35	RT	RAMP J	R5-1	4.00	4.00		16.00				9.00														
NB-TS-41	126+35	RT	RAMP J	R6-1L	4.50	1.50	6.75																			
NB-TS-41	126+35	RT	RAMP J	R6-1R	4.50	1.50	6.75																			
NB-TS-41	126+35	RT	RAMP J	R8-8	2.00	2.50	5.00					5.00														
NB-TS-42	124+29	LT	RAMP J	R3-8	3.50	2.50	8.75																			
NB-TS-43	124+29	LT	RAMP J	R5-1a	3.50	2.50	8.75					1				14.3										
NB-PM-44	75+91	RT	IL 171 NB	R2-1	3.00	4.00		12.00				12.00														
NB-WP-46	75+66	RT	IL 171 NB	R2-1	3.00	4.00		12.00									16.3									
NB-TS-45	76+03	RT	IL 171 NB	Guide Sign	5.00	1.50	7.50			1						34.5										
NB-OH-47	93+54	RT	IL 171 NB	Guide Sign	24.00	12.50			300.00					300.00												
NB-OH-48	93+54	RT	IL 171 NB	Guide Sign	12.50	3.50			43.75					43.75					1				2			
NB-TS-50	98+08	RT	IL 171 NB	E5-1	6.00	5.00			30.00							37.8										
NB-PM-49	98+20	RT	IL 171 NB	W13-3	3.00	4.00		12.00					12.00													
NB-TS-51	102+88	RT	IL 171 NB	Guide Sign	4.50	1.50	6.75					6.75				14.5										
NB-PM-52	106+20	RT	IL 171 NB	I1-I100	3.00	2.00	6.00					6.00														
NB-WP-54	108+00	RT	IL 171 NB	R2-1	3.00	4.00		12.00					1				16.5									
NB-WP-72	108+00	RT	IL 171 NB	R2-1	3.00	4.00		12.00									16.5									
NB-TS-53	111+00	RT	IL 171 NB	W4-1R	4.00	4.00		16.00									33.0									
NB-PM-55	113+00	RT	IL 171 NB	W3-3	3.00	3.00	9.00						6.25													
NB-PM-55	113+00	RT	IL 171 NB	W16-8P	2.00	0.67	1.33						1.33													
NB-PM-56	116+83	RT	IL 171 NB	M3-1	2.00	1.00	2.00						2.00													
NB-PM-56	116+83	RT	IL 171 NB	M1-5	4.00	3.00		12.00					12.00													
NB-WP-58	118+00	RT	IL 171 NB	W19-4	4.00	4.00		16.00										32.3						1		
NB-WP-58	118+00	RT	IL 171 NB	W13-1P	2.00	2.00	4.00																			
NB-WP-57	118+02	RT	IL 171 NB	W19-4	4.00	4.00		16.00																	1	
NB-WP-57	118+02	RT	IL 171 NB	W13-1P	2.00	2.00	4.00																			
NB-PM-59	118+92	RT	IL 171 NB	W1-8L	2.50	3.00	7.50					7.50														
NB-TS-60	120+42	RT	IL 171 NB	W1-8L	2.50	3.00	7.50			1							13.7									
NB-PM-61	120+99	RT	IL 171 NB	W1-8L	2.50	3.00	7.50						7.50													
NB-PM-62	120+99	RT	IL 171 NB	R5-1a	3.00	2.00	6.00						6.00													
NB-PM-63	123+13	RT	IL 171 NB	R5-1	3.00	3.00	9.00						9.00													
NB-PM-65	122+24	RT	RAMP J	R5-1a	3.50	2.50	8.75																			
NB-TS-66	122+24	LT	RAMP J	R5-1a	3.50	2.50	8.75																			
NB-PM-67	124+29	RT	RAMP J	R5-1a	3.50	2.50	8.75																			
NB-TS-68	126+52	LT	RAMP J	R5-1	4.00	4.00		16.00																		
NB-TS-69	51+00	RT	JOLIET RD	R3-1	3.00	3.00	9.00																			
NB-TS-70	51+00	RT	JOLIET RD	R3-2	3.00	3.00	9.00			1																
NB-TS-71	52+00	LT	JOLIET RD	R3-2	3.00	3.00	9.00																			

TOTAL							372.46	402.75	1096.50	10.00	16.00	163.77	230.50	1006.50	594.30	466.70	317.02	1.00	1.40	2.00	2.00	4.00	4.00	6.00	4.00	3.00
ROUNDED TOTAL							373	403	1097	10	16	164	231	1007	595	467	318	1	2	2	2	4	4	6	4	3

FILE NAME =	DESIGNED - MW	REVISED -	 LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 171 SIGNING DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME = Plotted by Bobby	DRAWN - MW	REVISED -				373	2013-037B-R	COOK	787	140	
PLOT DATE = 8/24/2015	CHECKED - ST	REVISED -				CONTRACT NO. 60W75					
						SCALE: N.T.S.	SHEET 21 OF 21 SHEETS	STA.	TO STA.		
ILLINOIS FED. AID PROJECT											

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:
Field Units
F_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

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

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

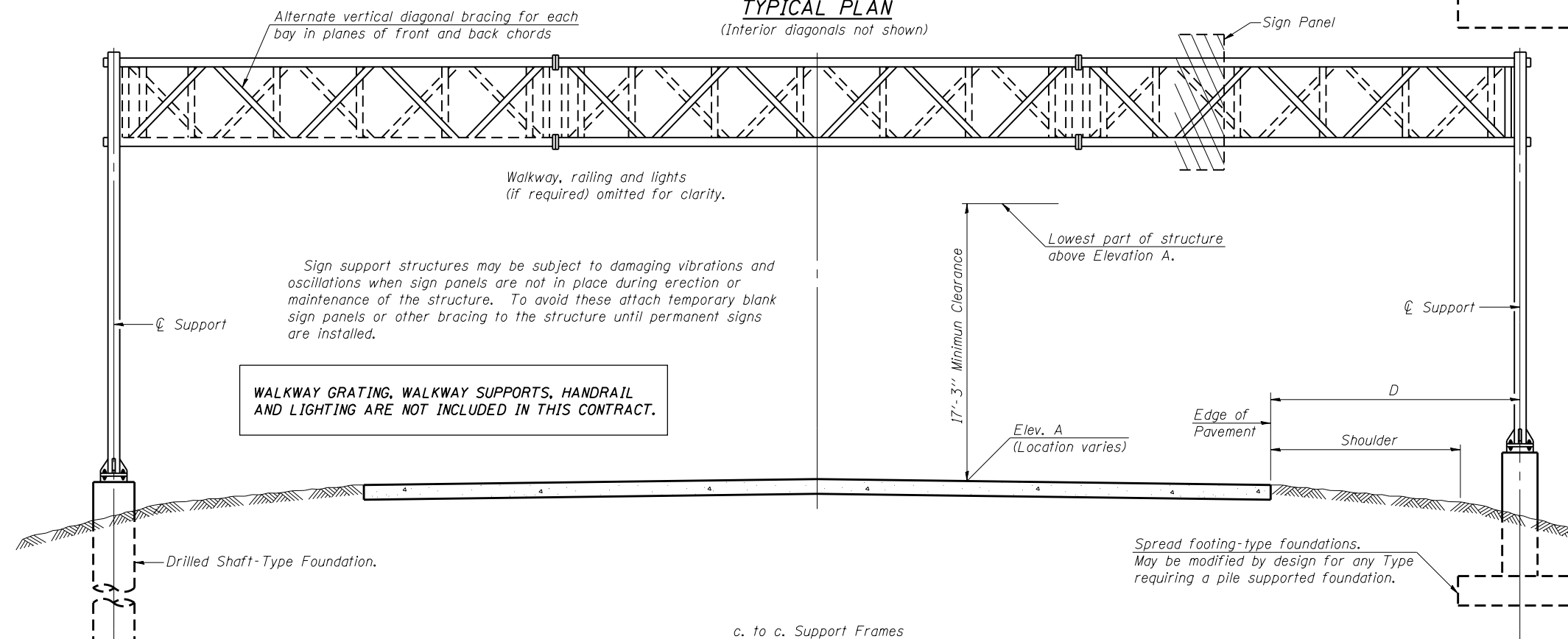
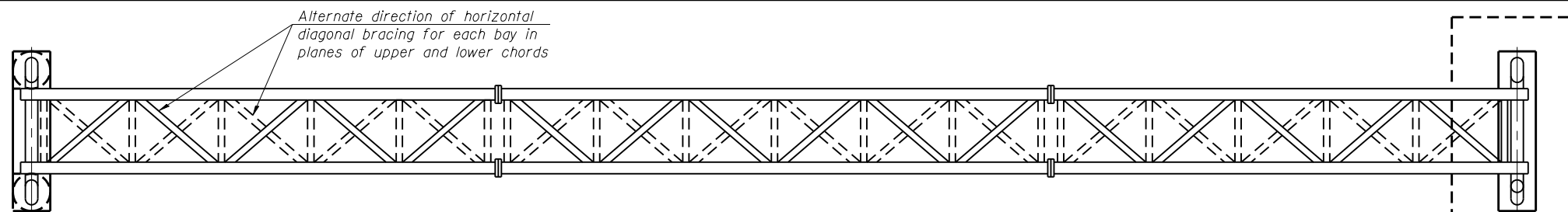
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	156
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	25.6



WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT.

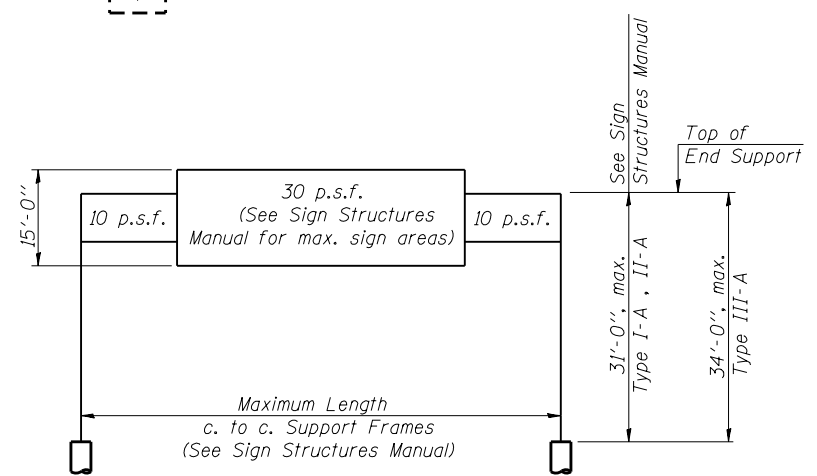
Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these attach temporary blank sign panels or other bracing to the structure until permanent signs are installed.

TYPICAL ELEVATION
(Looking at Face of Signs)**

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S016S171R000.0-005	93+53.70	I-A	88.00'	620.80	22.31'	12.50'	343.75 S.F.
1S016S171R000.0-001	24+16.60	I-A	68.00'	626.60	16.00'	11.50'	338.50 S.F.

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

OS-A-1

8-21-13

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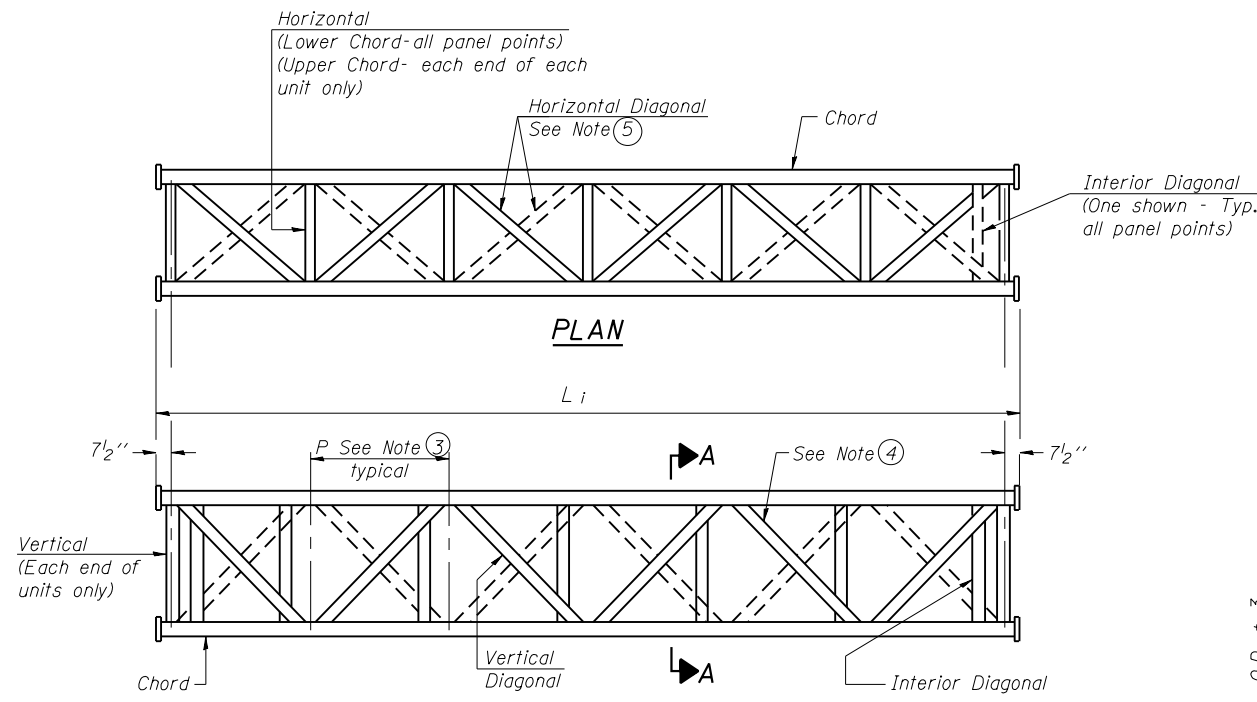
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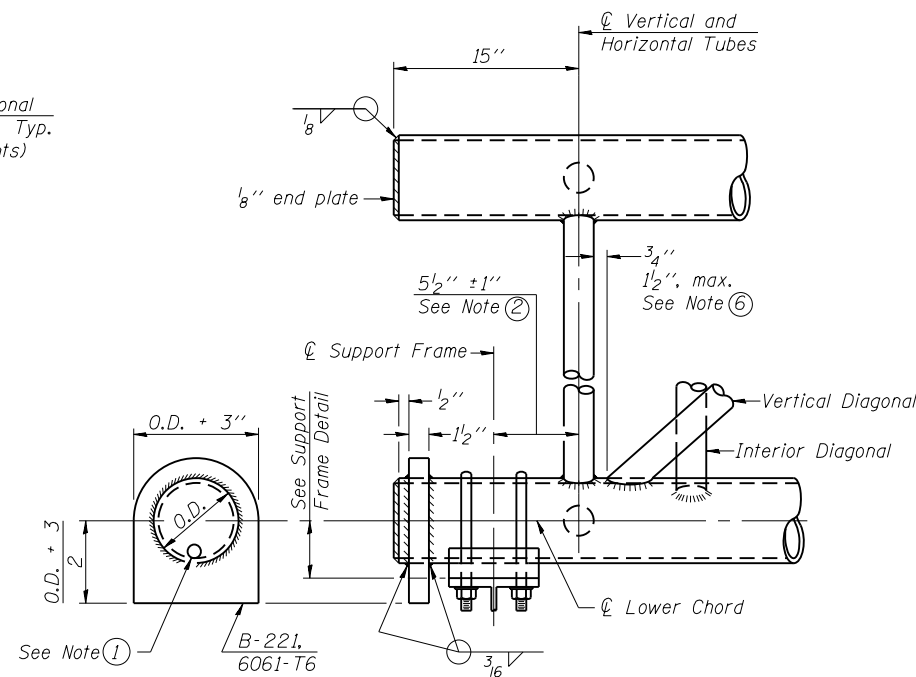
**OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS**

SHEET NO. 1 OF 19 SHEETS

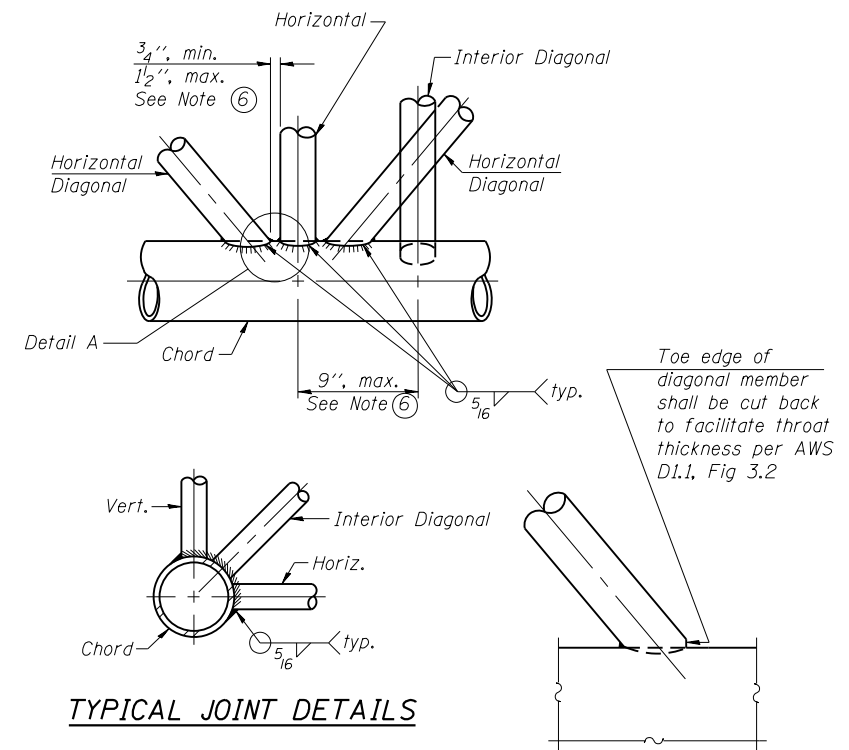
F.A.P. RTE. 372/373 SECTION 2013-037B-R COUNTY COOK TOTAL SHEETS 787 SHEET NO. 141 CONTRACT NO. 60W75 ILLINOIS FED. AID PROJECT



**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.

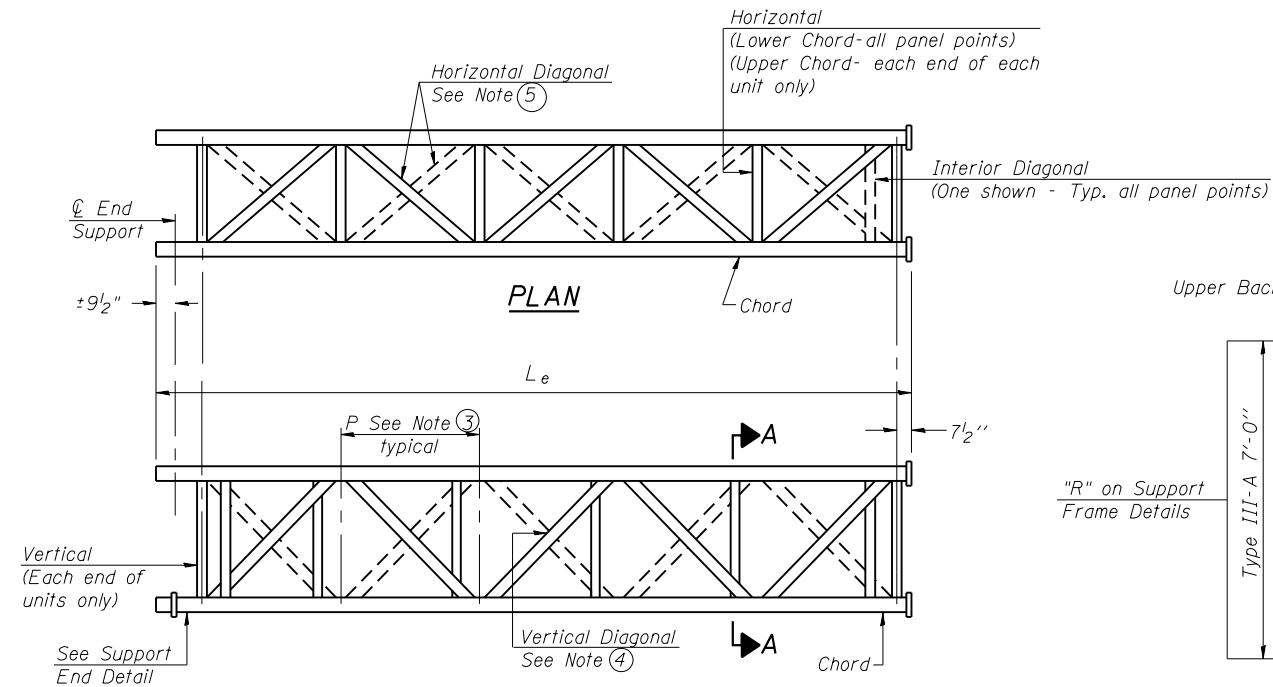


SUPPORT END DETAIL FOR EXTERIOR UNIT

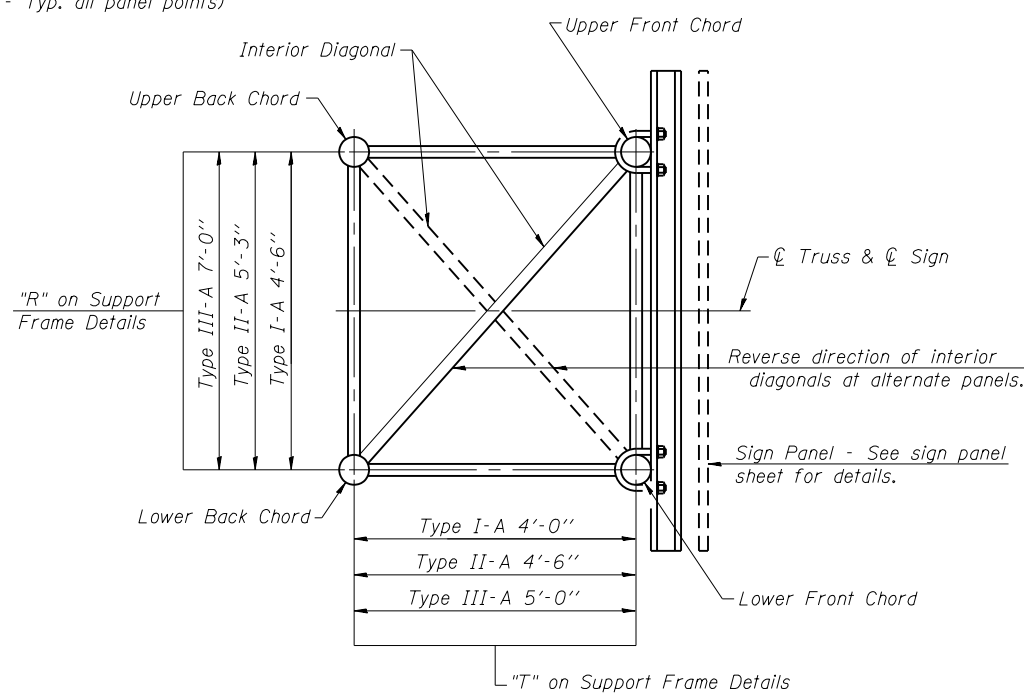


TYPICAL JOINT DETAILS

DETAIL A



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

OS-A-2

6-1-12

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**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

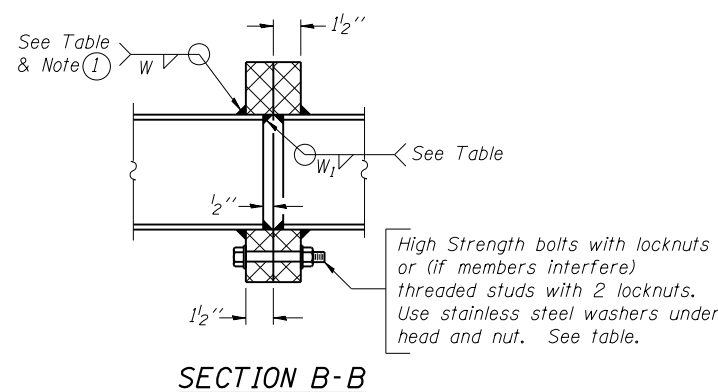
SHEET NO. 2 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	142
CONTRACT NO. 60W75				

ILLINOIS FED. AID PROJECT

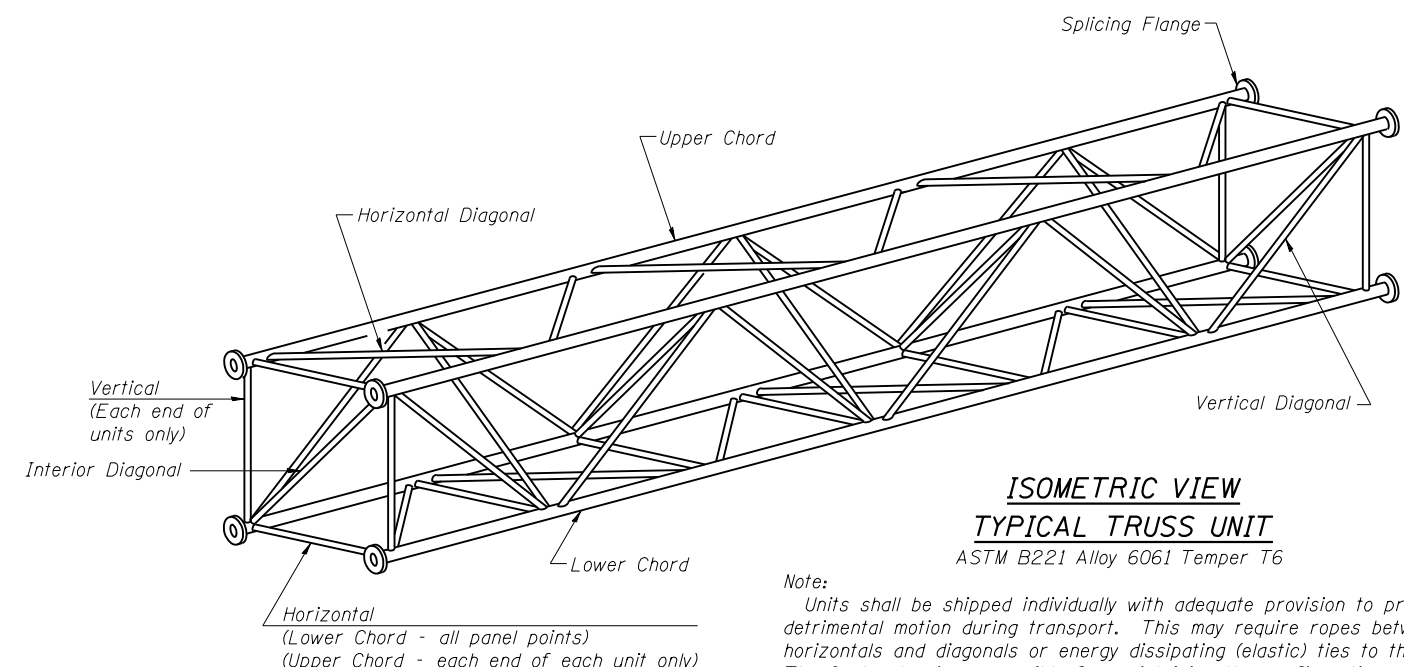
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange							
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B		
															No./Splice	Dia.	W	W ₁				
ISO16S171R000.0-005	93+53.70	I-A	6	30'-1 1/2"	4'-8 1/2"	1	6	29'-6"	4'-8 1/2"	5"	5/16"	2 1/2"	5/16"	2 3/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"		
ISO16S171R000.0-001	24+16.60	I-A	7	34'-10"	4'-8 1/2"	0	-	-	-	5"	5/16"	2 1/2"	5/16"	1 5/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"		

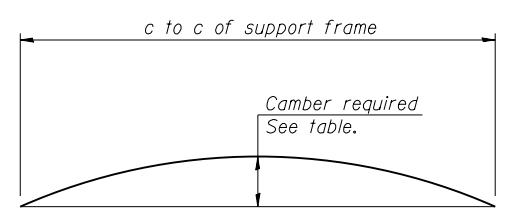


SECTION B-B

① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



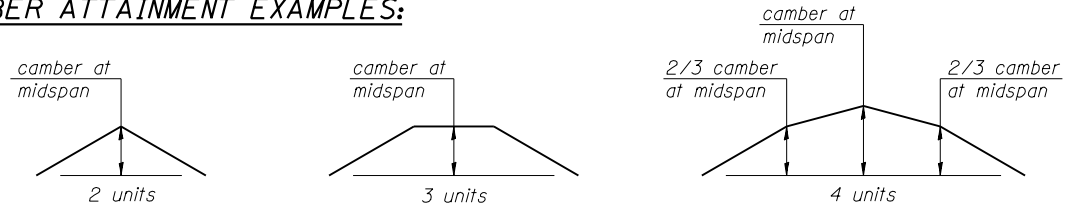
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



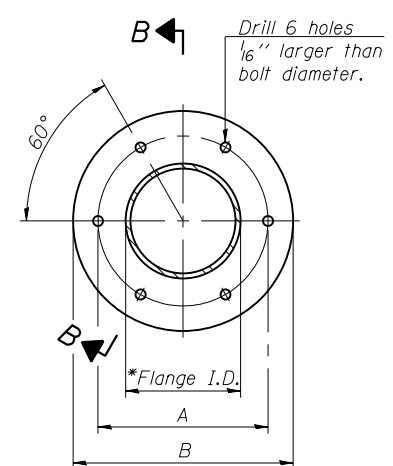
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

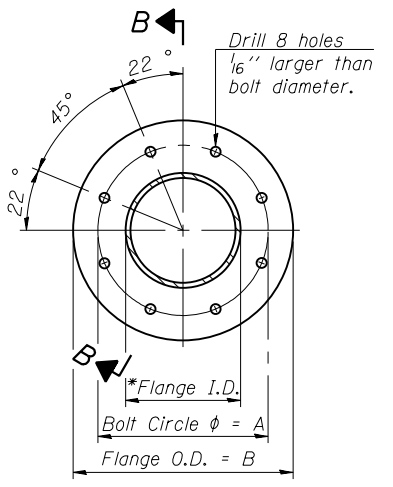
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



**TRUSS TYPES II-A & III-A
SPLICING FLANGES**

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12



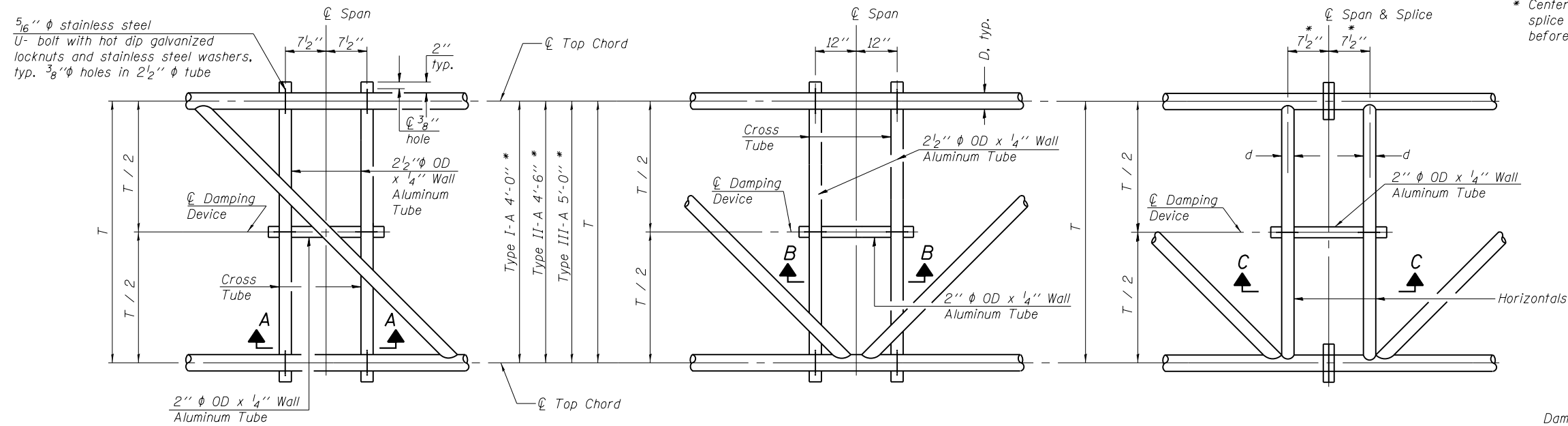
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**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

SHEET NO. 3 OF 19 SHEETS

F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 143
CONTRACT NO. 60W75				ILLINOIS FED. AID PROJECT



PLAN DETAIL "A"
 ☉ Span between Panel Points

PLAN DETAIL "B"
 ☉ Span at Panel Point

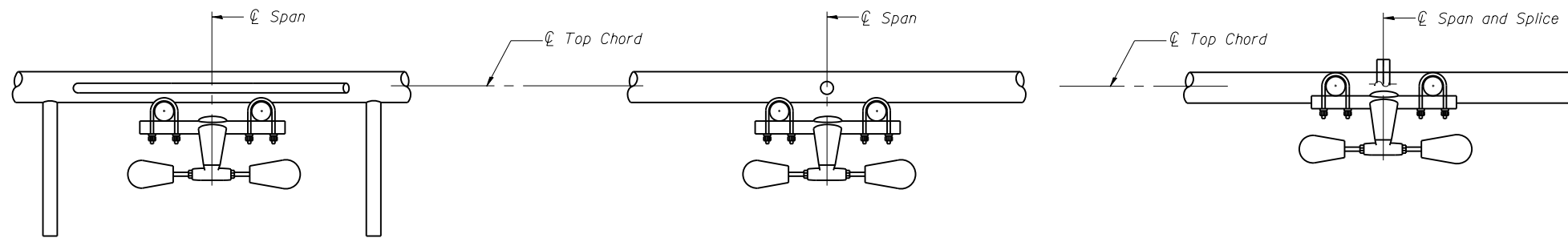
PLAN DETAIL "C"
 ☉ Span at ☉ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

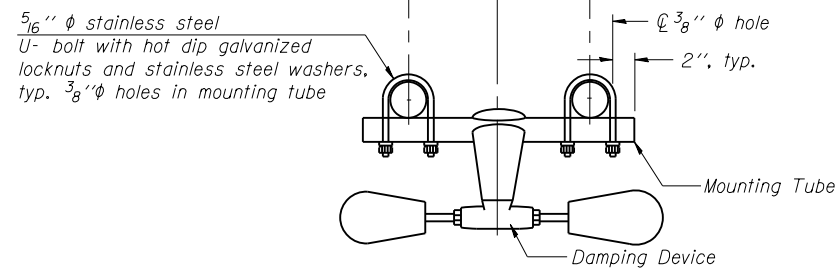
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



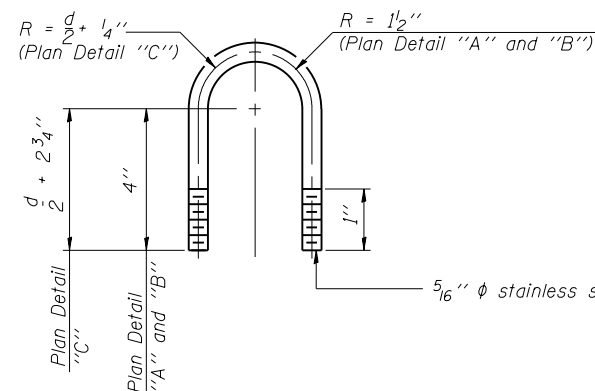
SECTION A-A

SECTION B-B

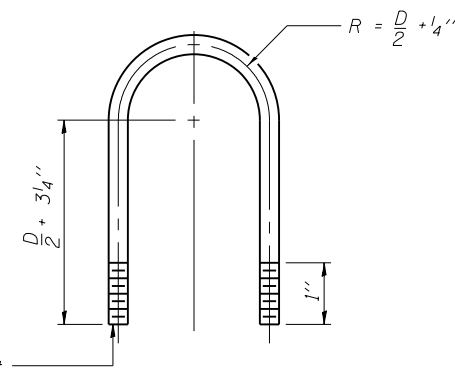
SECTION C-C



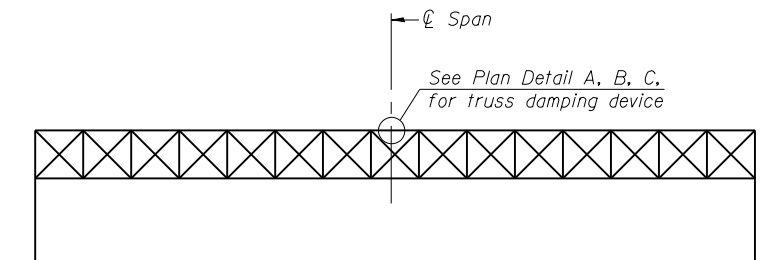
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

OS-A-D

6-1-12

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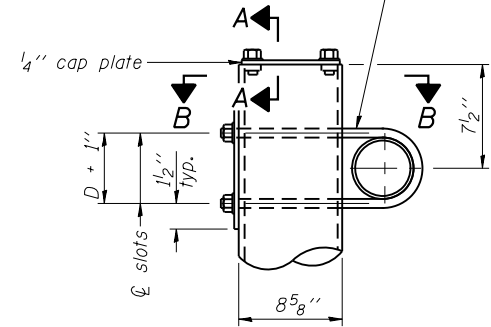
OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

SHEET NO. 4 OF 19 SHEETS

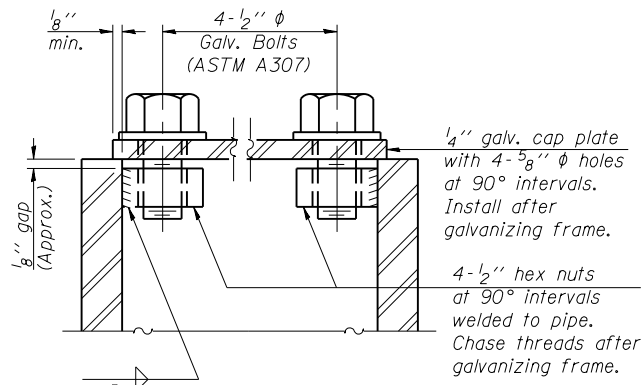
F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 144
CONTRACT NO. 60W75				

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3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 8" φ pipe.
(4 slots required per pipe)

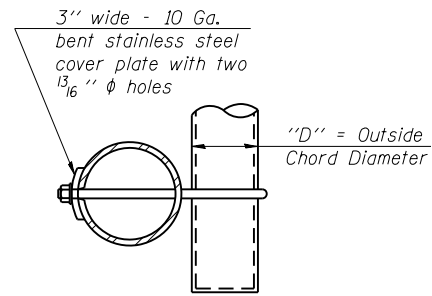


DETAIL A

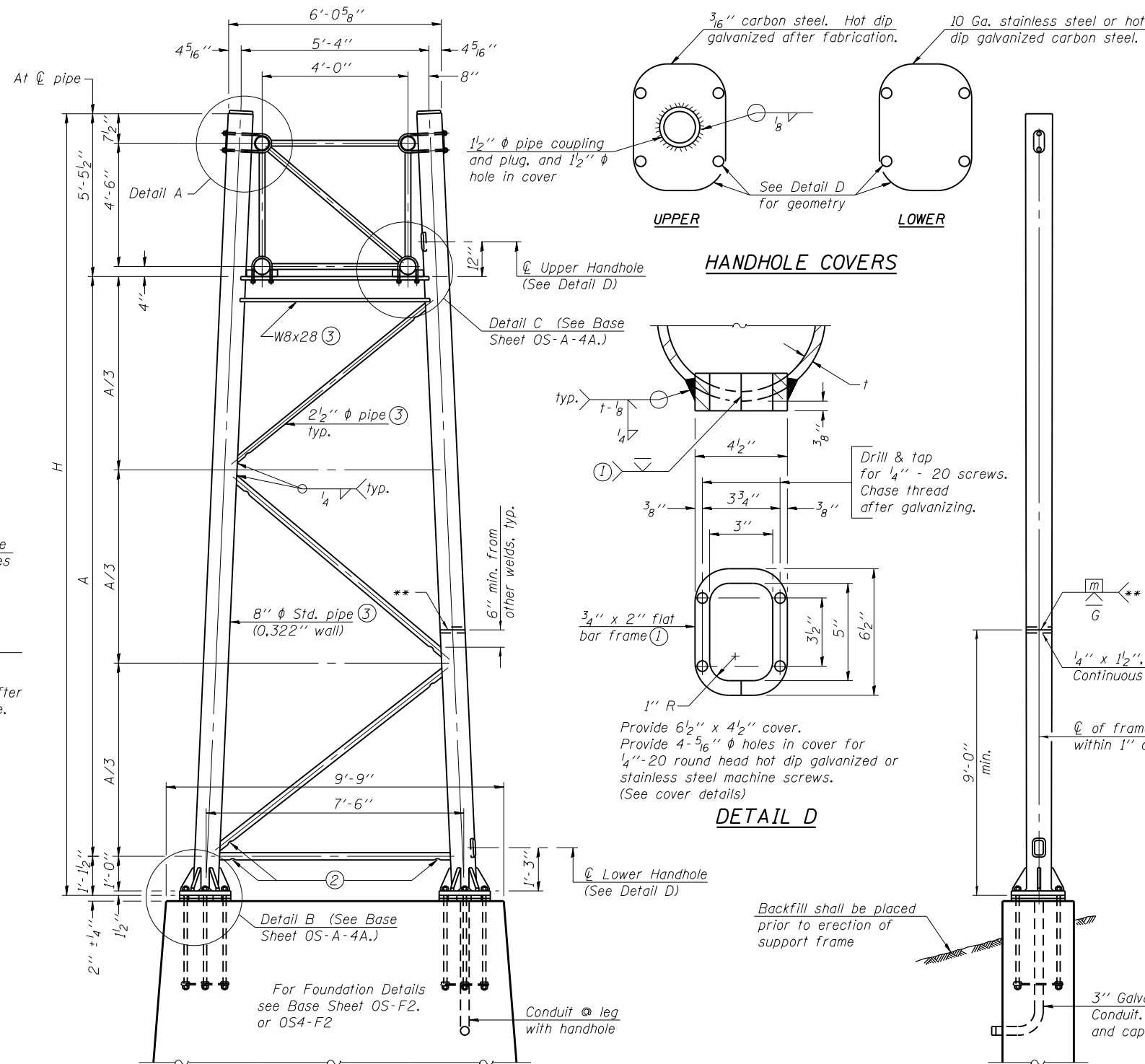


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

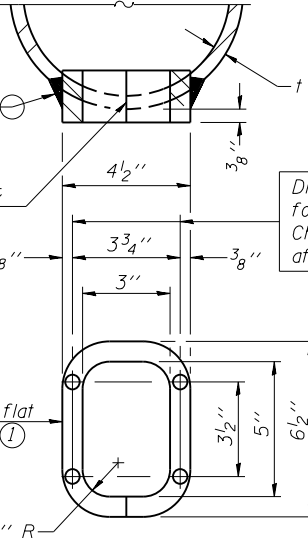


SECTION B-B



SIDE ELEVATION

HANDHOLE COVERS



DETAIL D

Provide 6 1/2" x 4 1/2" cover. Provide 4 5/16" φ holes in cover for 1/4"-20 round head hot dip galvanized or stainless steel machine screws. (See cover details)

END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

8" φ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		H ⑥	A
		Left	Right		
ISO16S171R000.0-005	93+53.70	X	X	27'-5 1/2"	20'-10 1/2"
ISO16S171R000.0-001	24+16.60	X	X	27'-5 1/2"	20'-10 1/2"

OS-A-4

6-1-12

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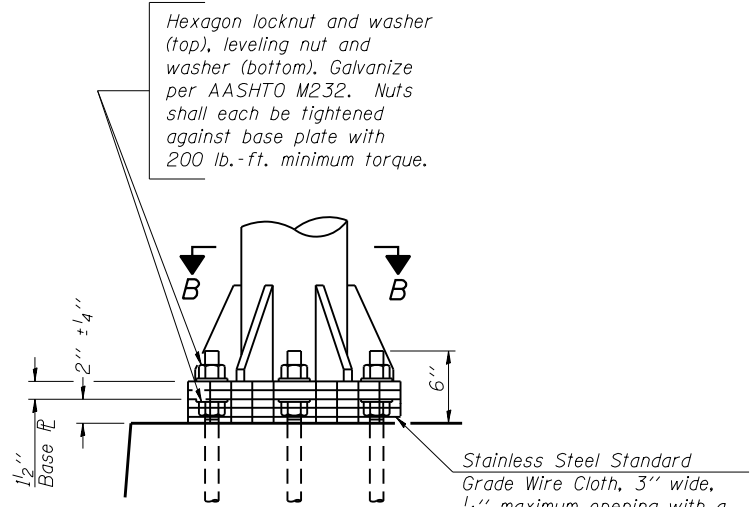
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STATE OF ILLINOIS
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OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS

SHEET NO. 5 OF 19 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
372/373 2013-037B-R COOK 787 145
CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT

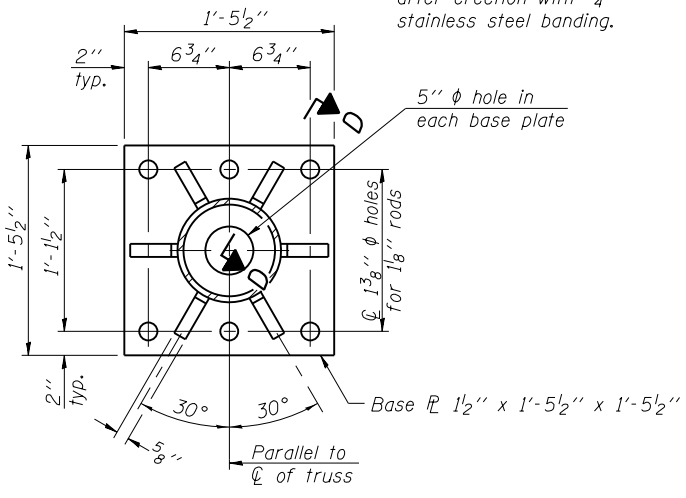


DETAIL B

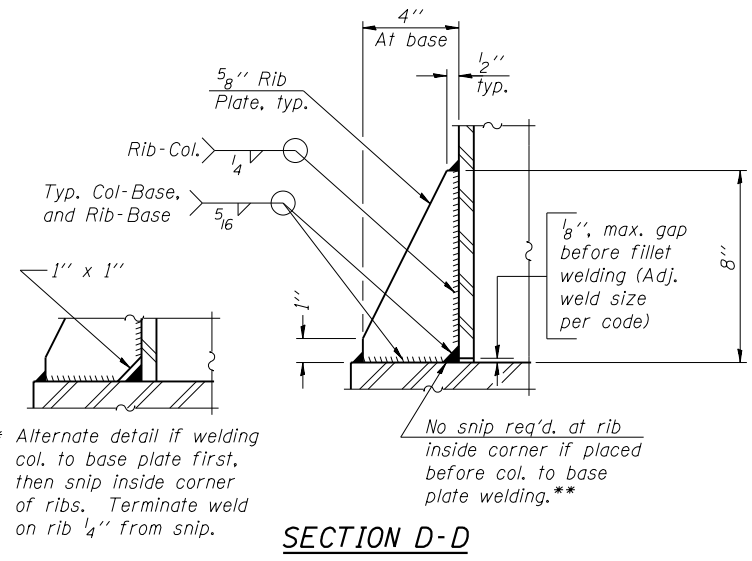
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



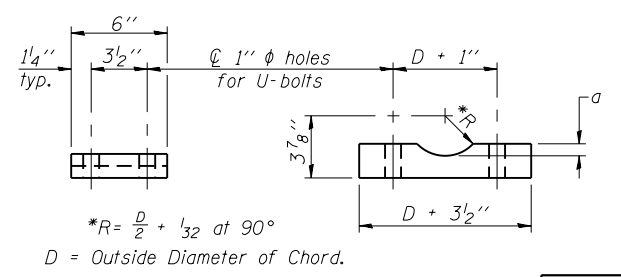
SECTION B-B



SECTION D-D

** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

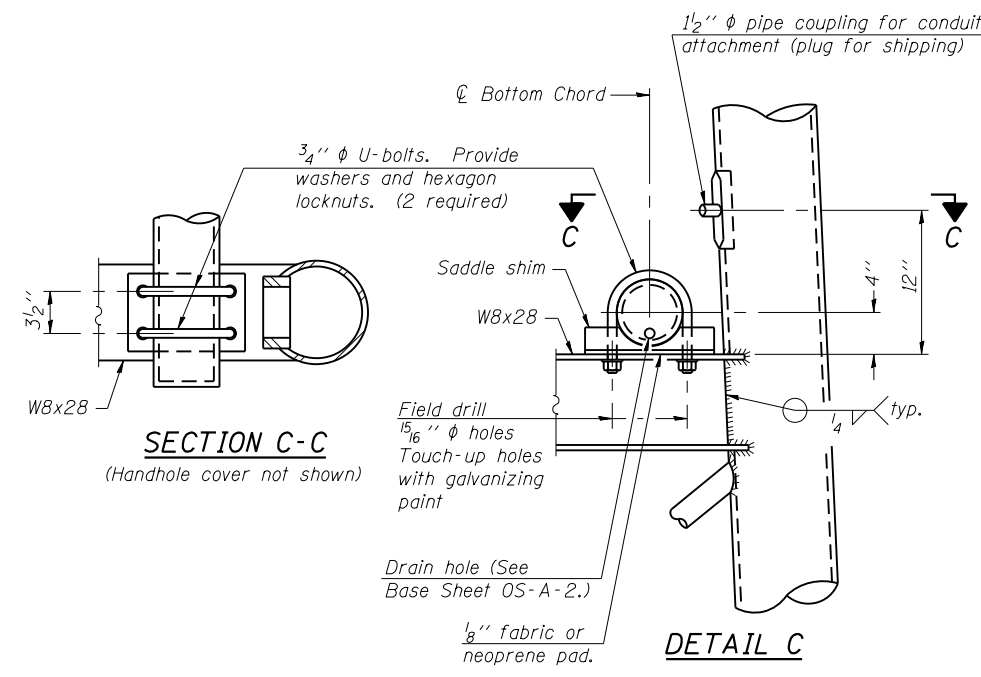
No snip req'd. at rib inside corner if placed before col. to base plate welding.**



SADDLE SHIM DETAIL

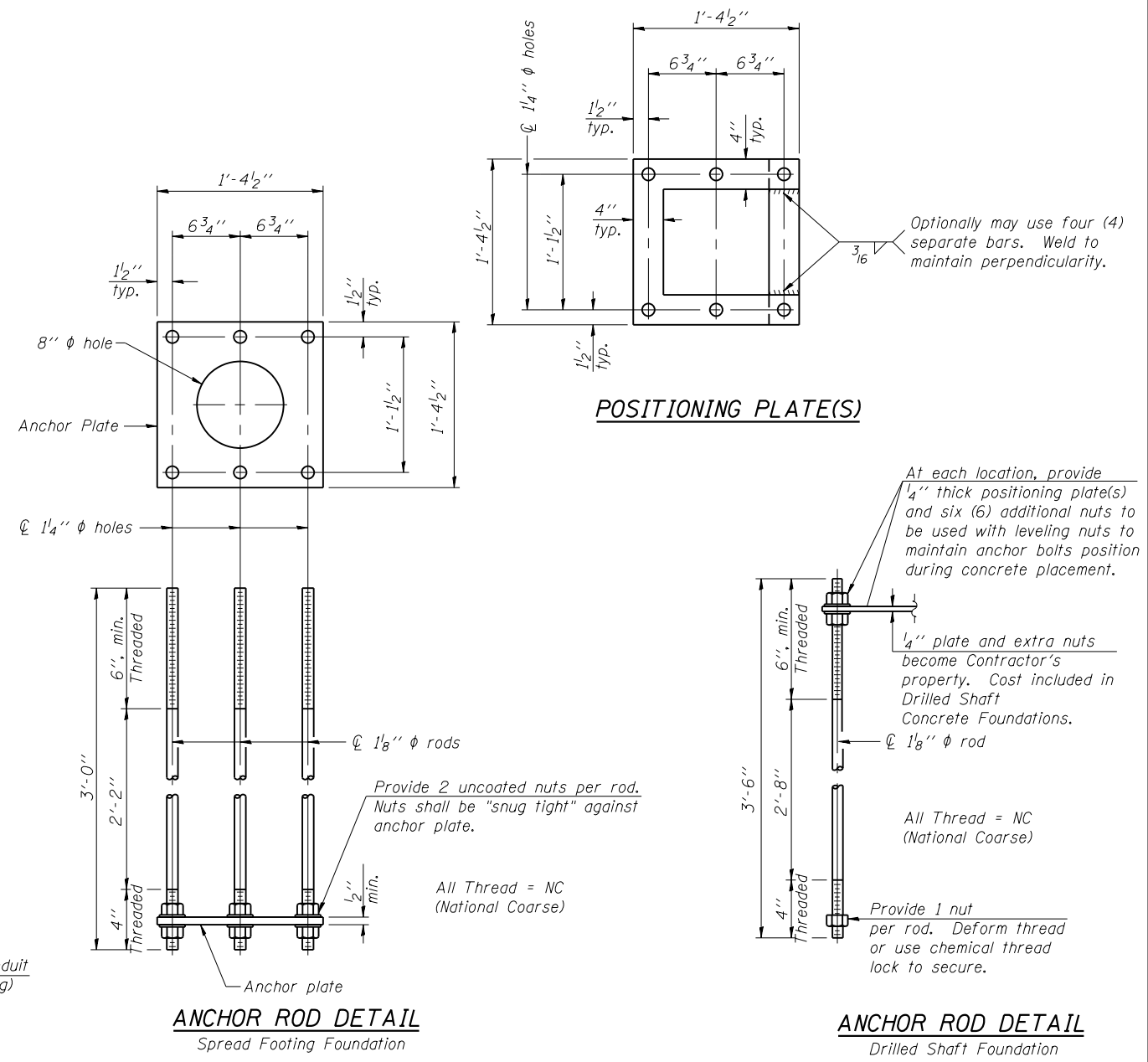
ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"



SECTION C-C
(Handhole cover not shown)

DETAIL C



ANCHOR ROD DETAIL
Spread Footing Foundation

ANCHOR ROD DETAIL
Drilled Shaft Foundation

TYPE I-A TRUSS
8" Ø PIPE SUPPORT FRAME DETAILS

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

OS-A-4A

6-1-12

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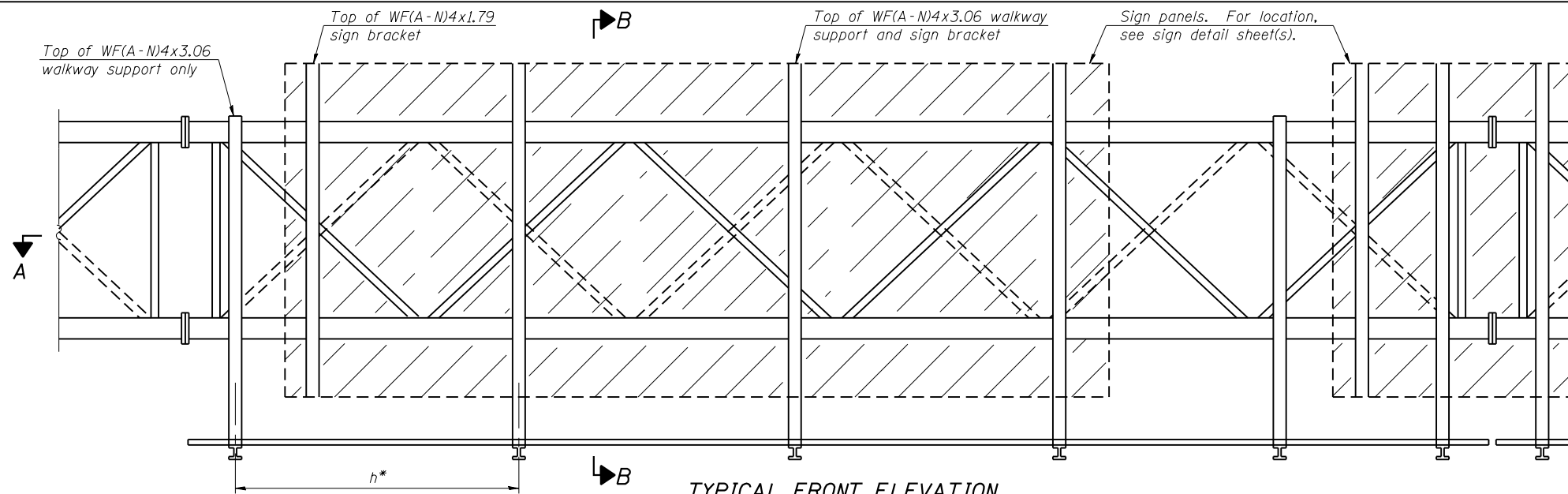
STATE OF ILLINOIS
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OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SHEET NO. 6 OF 19 SHEETS

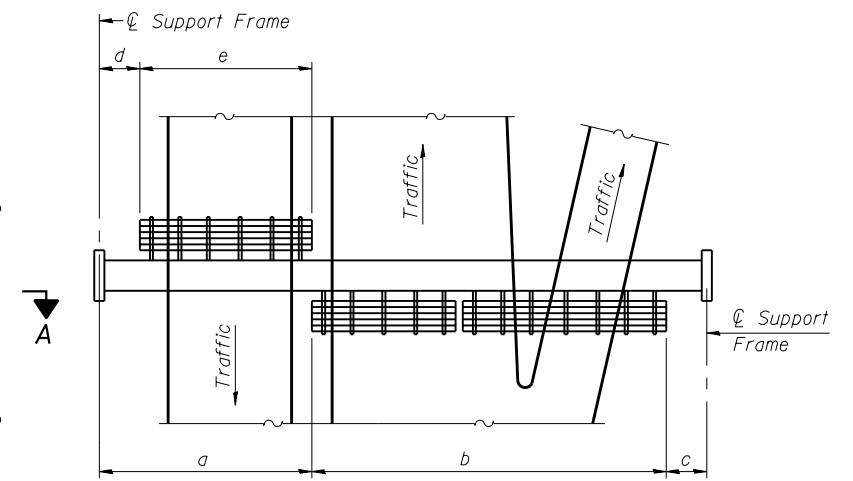
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	146
CONTRACT NO. 60W75				

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TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



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

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to \varnothing of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to \varnothing of nearest support bracket)

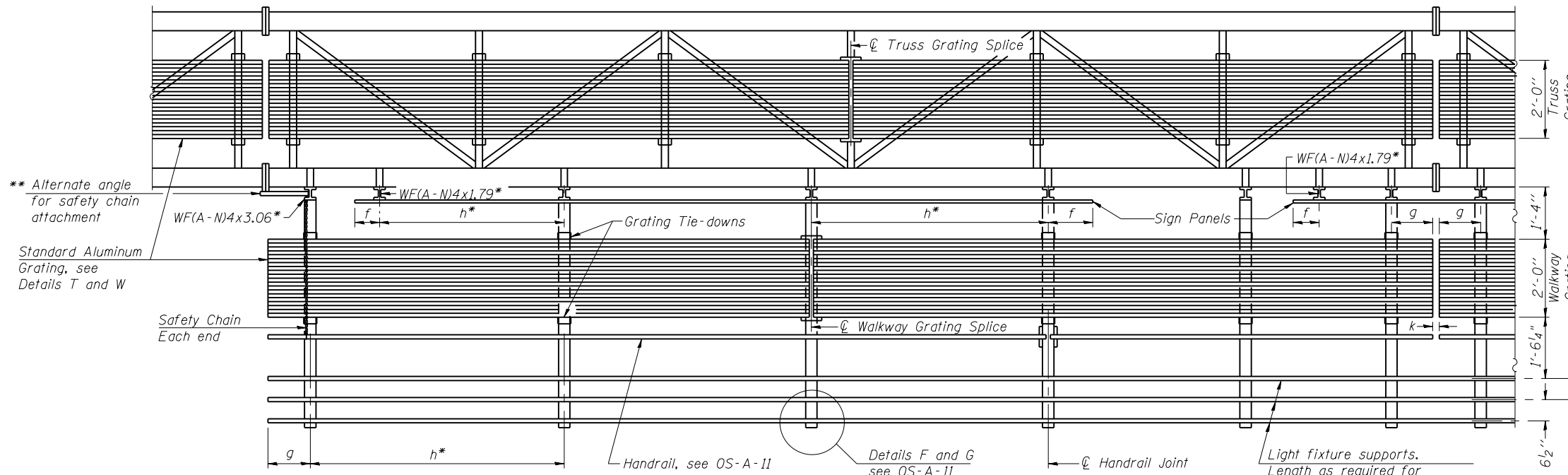
h = 6'-0" maximum (\varnothing to \varnothing sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.

For Handrail Details see Base Sheet OS-A-11.



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Handrail joints, grating, and light support splices placed as needed.

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths

Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12"$ on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard widths.

OS-A-9

6-1-12

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME = _____
FILE NAME = _____
PLOT SCALE = _____
PLOT DATE = 07/30/2015

DESIGNED - HP
CHECKED - JJA
DRAWN - HP
CHECKED - JJA

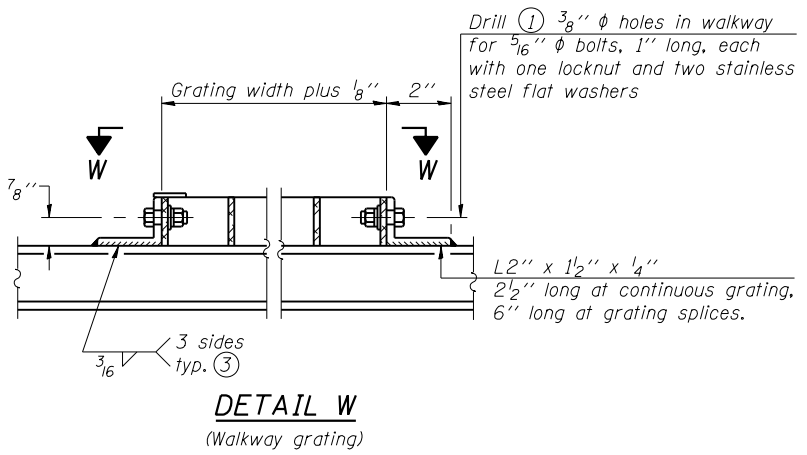
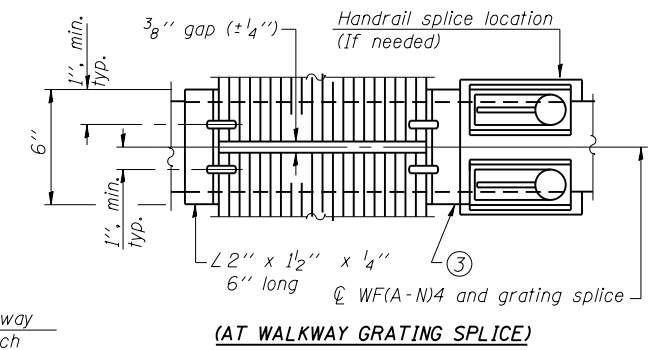
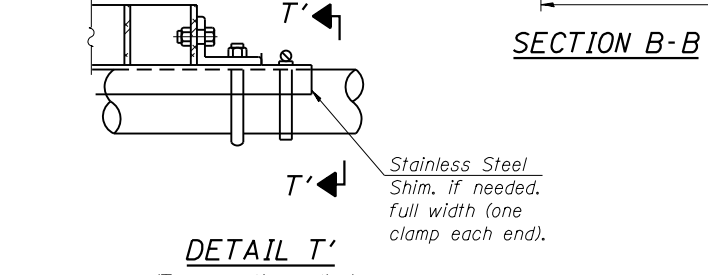
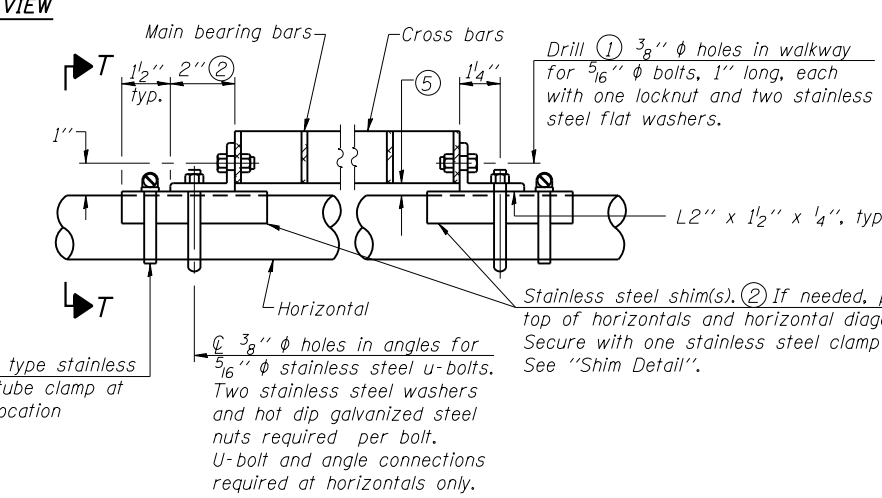
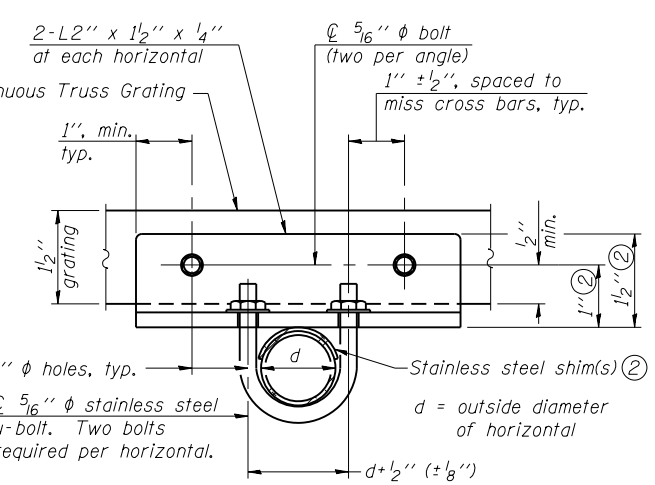
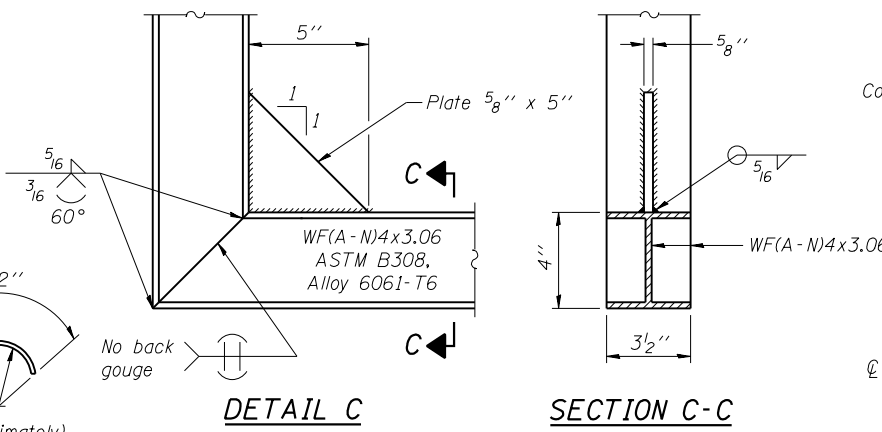
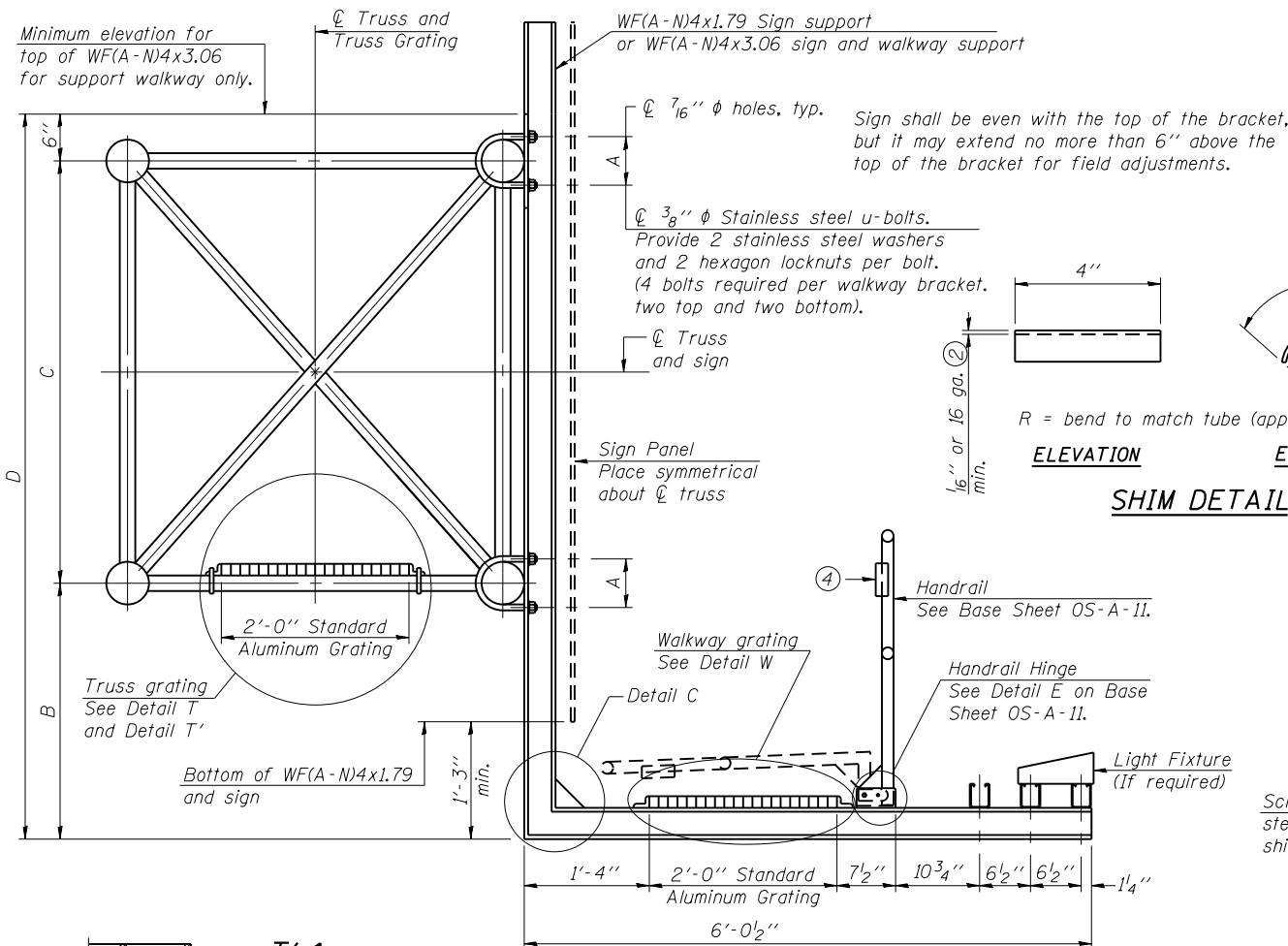
REVISED - _____
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REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

SHEET NO. 7 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	147
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "4" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
ISO16S171R000.0-005	93+53.70	6"	4'-0"	4'-6"	9'-0"
ISO16S171R000.0-001	24+16.60	6"	3'-6"	4'-6"	8'-6"

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-II.)
- ④ R 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- ⑥ Based on actual height of tallest sign given on OS-A-1.

OS-A-10

6-1-12

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =
FILE NAME =
PLOT SCALE =
PLOT DATE = 07/30/2015

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CHECKED - JJA

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REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

SHEET NO. 8 OF 19 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
372/373 2013-037B-R COOK 787 148
CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

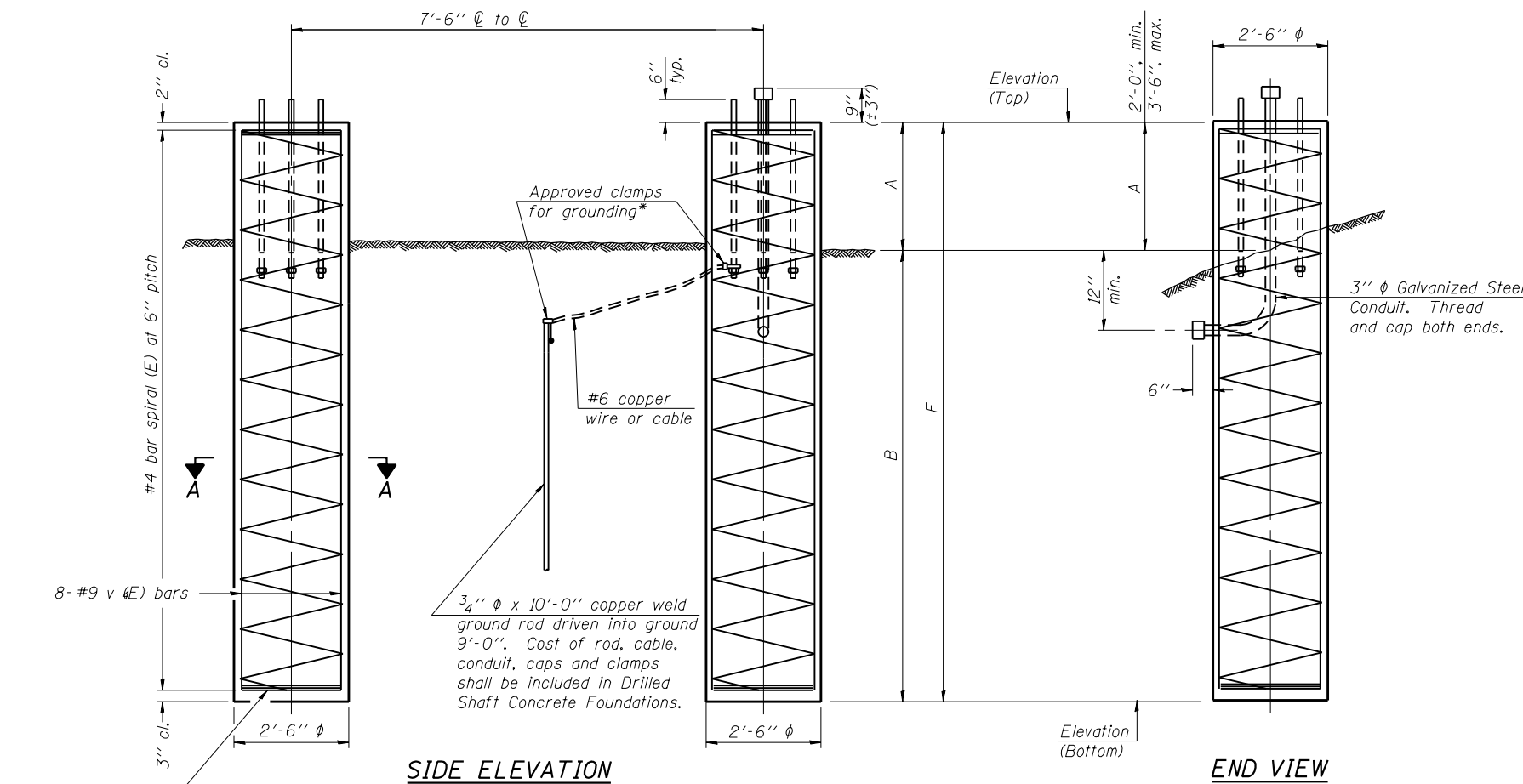
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

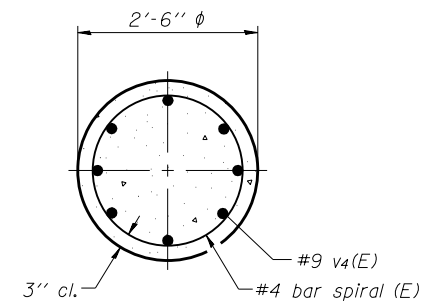
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

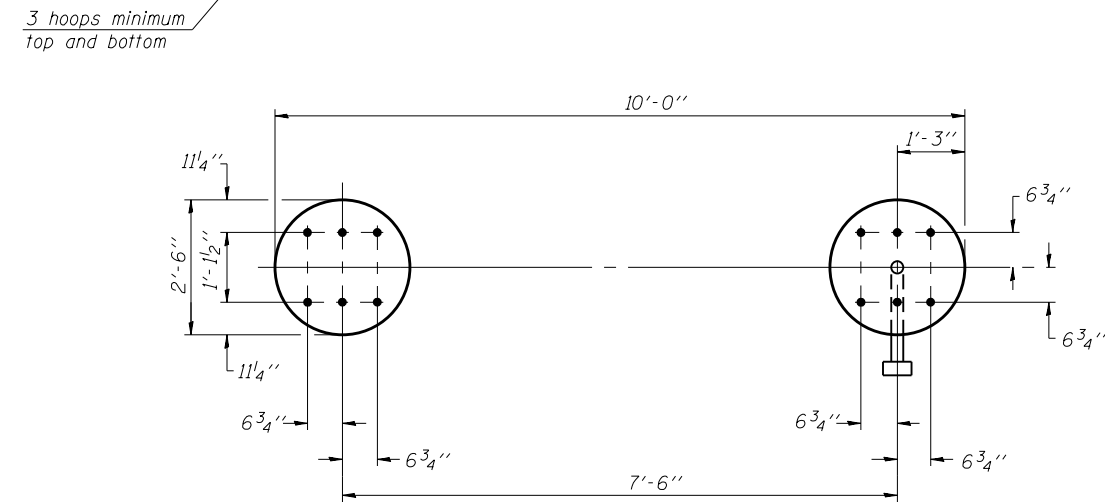


SIDE ELEVATION

END VIEW



SECTION A-A



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 8" Ø SUPPORT FRAME
TYPE I-A TRUSS**

Structure Number	Station	Elevation Top	Elevation Bottom	Left Foundation			Right Foundation			Class DS Concrete (Cu. Yds.)		
				A	B	F	Elevation Top	Elevation Bottom	A		B	F
ISO16S171R000.0-005	93+53.70	620.80	603.30	3.00'	14.50'	17.50'	620.80	603.30	3.00'	14.50'	17.50'	12.8
ISO16S171R000.0-001	24+16.60	626.60	609.10	3.00'	14.50'	17.50'	626.60	609.10	3.00'	14.50'	17.50'	12.8

OS4-F2

8-21-13

Lin Engineering, Ltd.
Consulting Engineers
Springfield, Illinois

USER NAME =	DESIGNED - HP	REVISED -
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PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS**

SHEET NO. 9 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	149
CONTRACT NO. 60W75				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:

Field Units
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

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

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

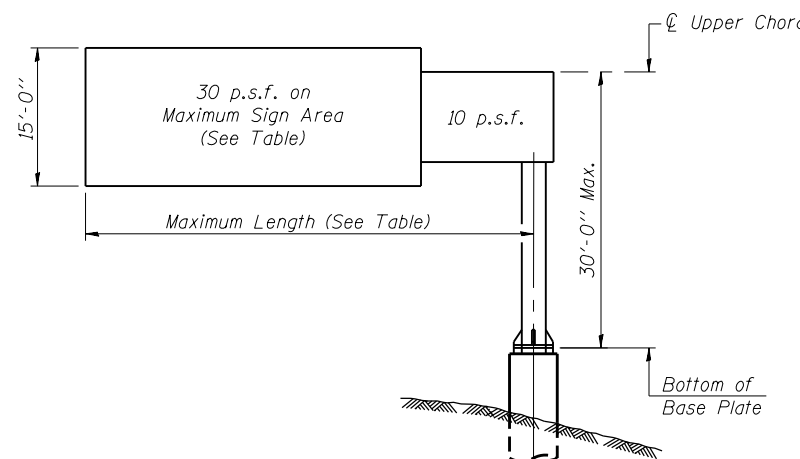
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

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

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D _s	Total Sign Area
IC016S171R000.0-002	67+34.00	III-C-A	30.00'	620.60	18.27'	4.00'	56.00 S.F.
IC016S171R000.0-001	43+20.00	III-C-A	30.00'	620.60	12.40'	7.50'	116.25 S.F.
IC016S171R000.0-000	15+57.00	III-C-A	30.00'	619.80	15.44'	10.00'	145.00 S.F.

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

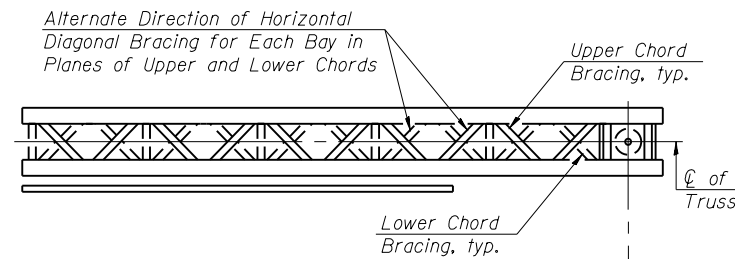
Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components.

Note:

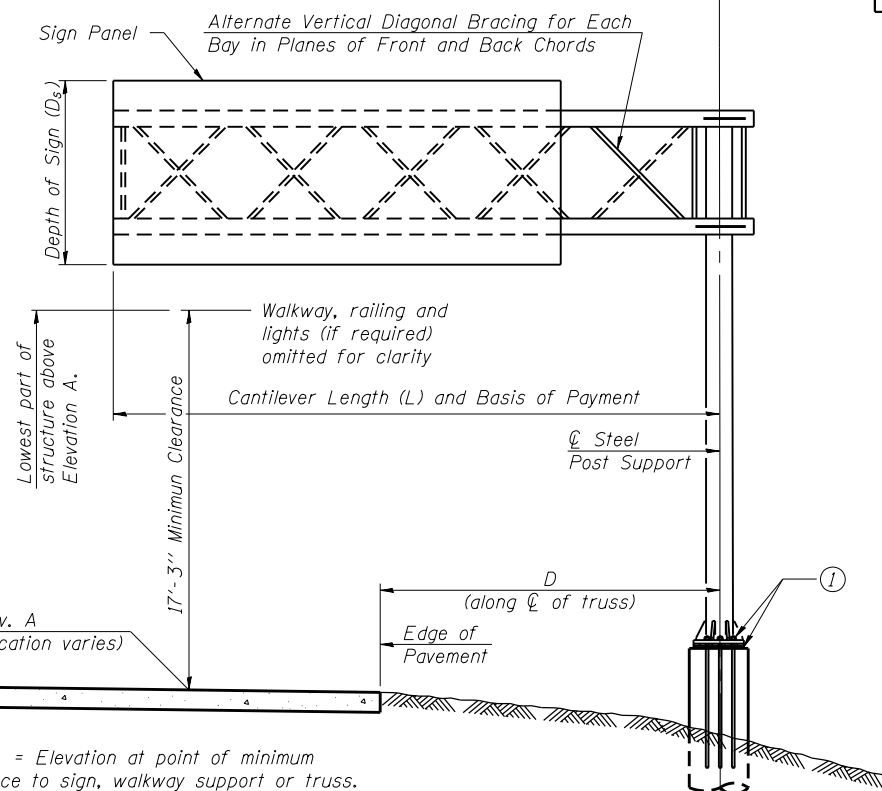
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



TYPICAL PLAN
(Walkway not shown)



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

TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	90
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	30.6

OSC-A-1

8-21-13



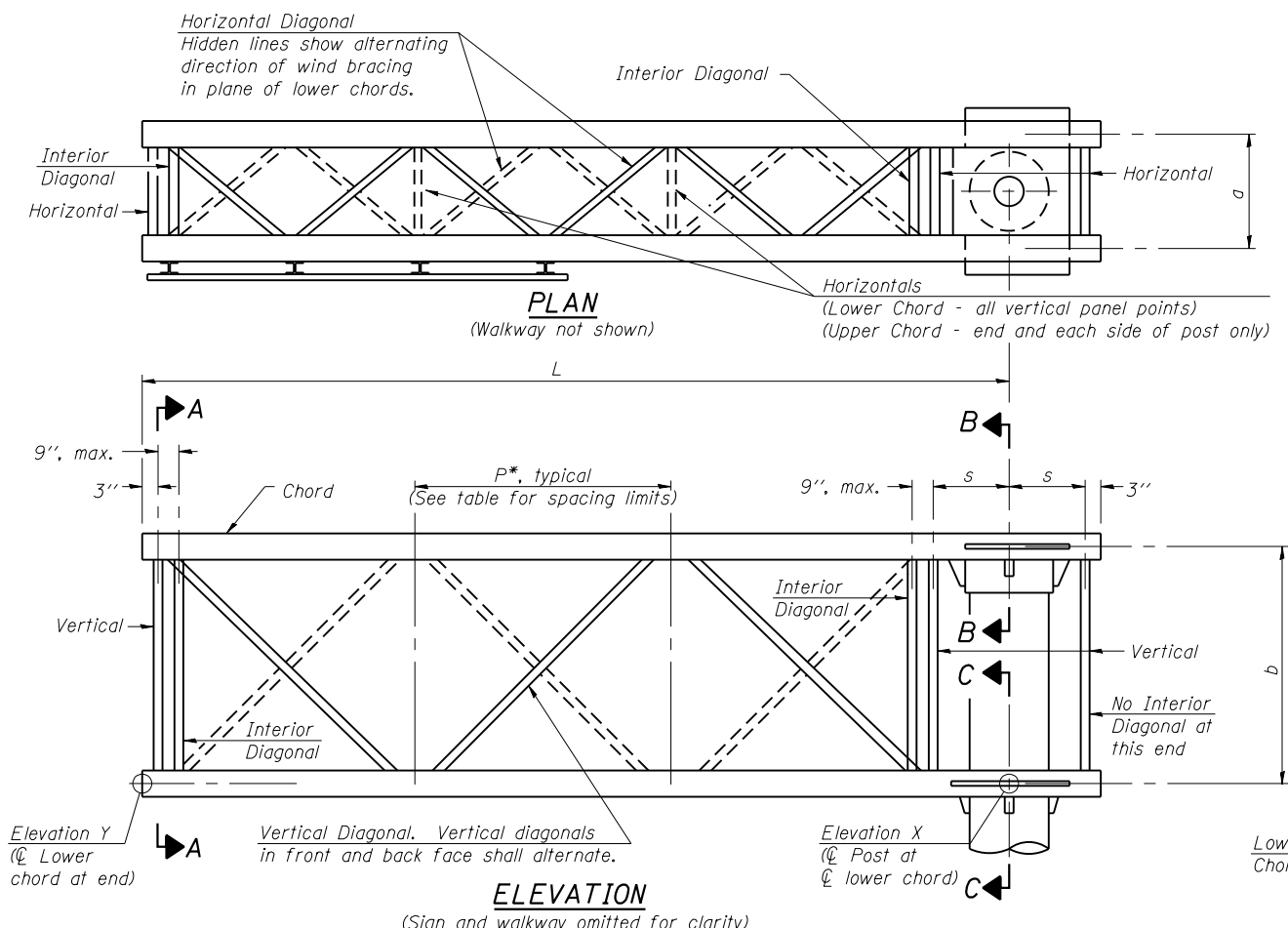
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FILE NAME =	CHECKED - JJA	REVISED -
PLOT SCALE =	DRAWN - HP	REVISED -
PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SHEET NO. 10 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	150
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



TYPICAL TRUSS UNIT
(Sign and walkway omitted for clarity)

Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.

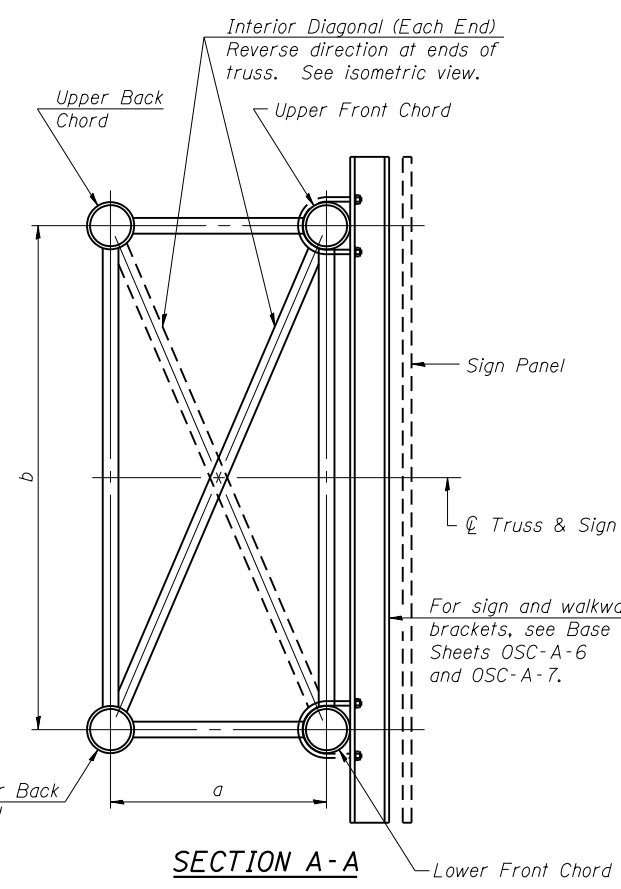
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

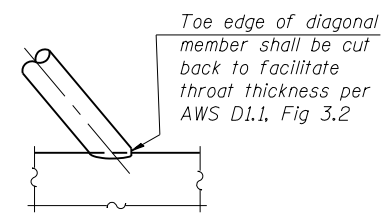
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*P = \frac{L - s - 3''}{\# \text{ Panels}}$$

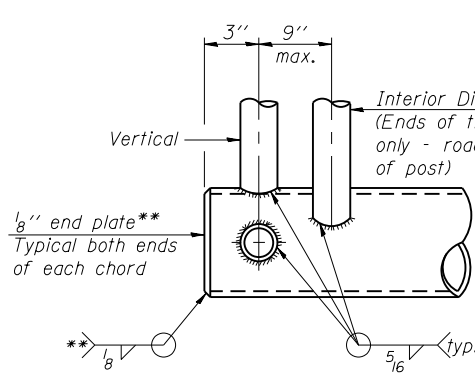
Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
IC016S171R000.0-002	67+34.00	III-C-A	30.00'	7	4.00'
IC016S171R000.0-001	43+20.00	III-C-A	30.00'	7	4.00'
IC016S171R000.0-000	15+57.00	III-C-A	30.00'	7	4.00'



SECTION A-A

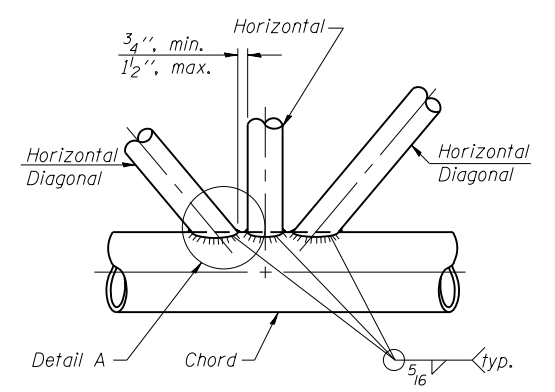


DETAIL A

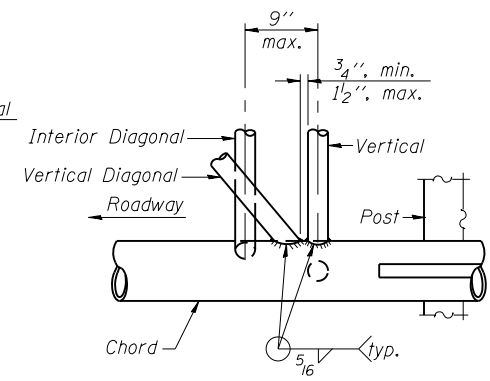


CANTILEVER END JOINT DETAIL

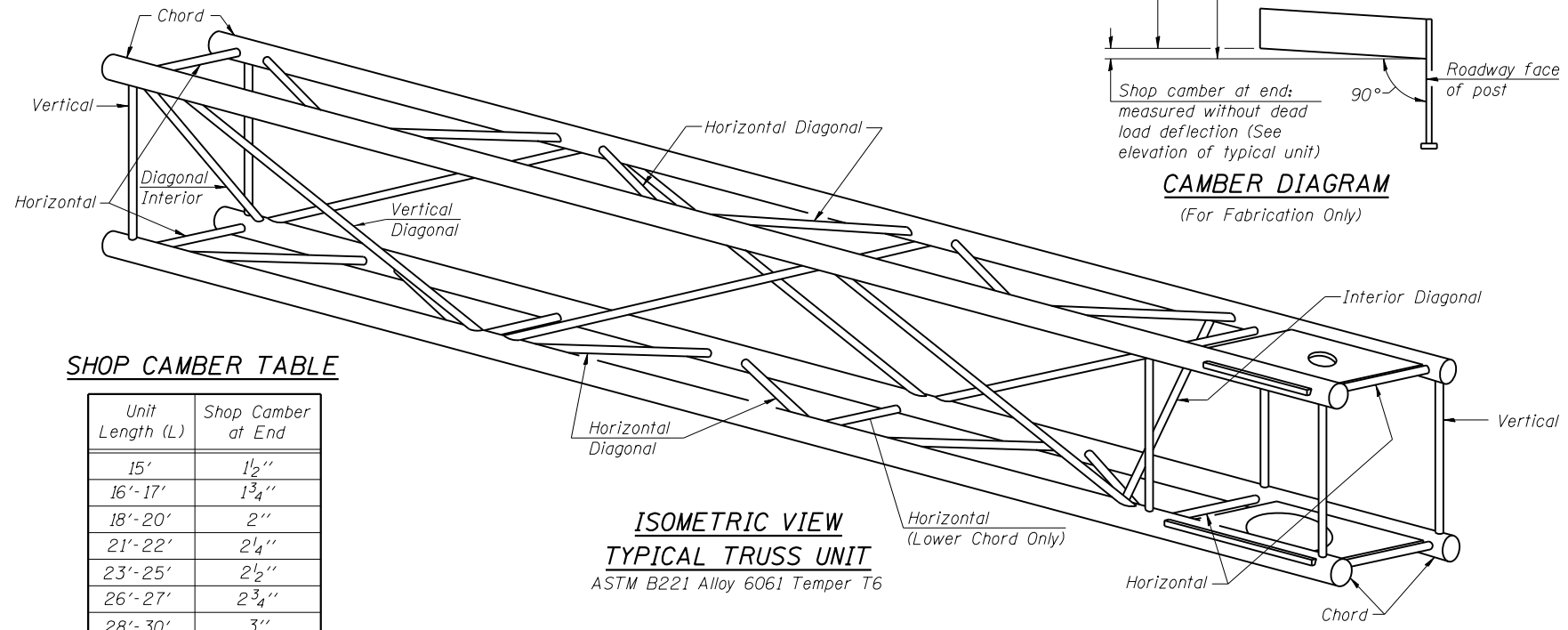
** Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2" ϕ Drain hole in end plate / drive-fit cap.



TRUSS INTERIOR JOINT DETAIL



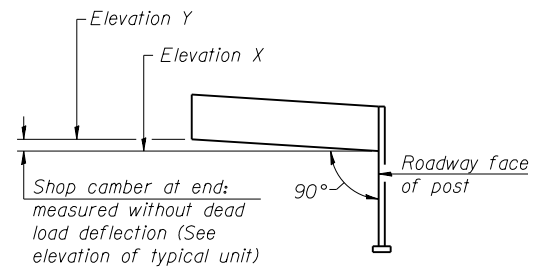
POST END JOINT DETAIL



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



CAMBER DIAGRAM
(For Fabrication Only)

OSC-A-2

6-1-12



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PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

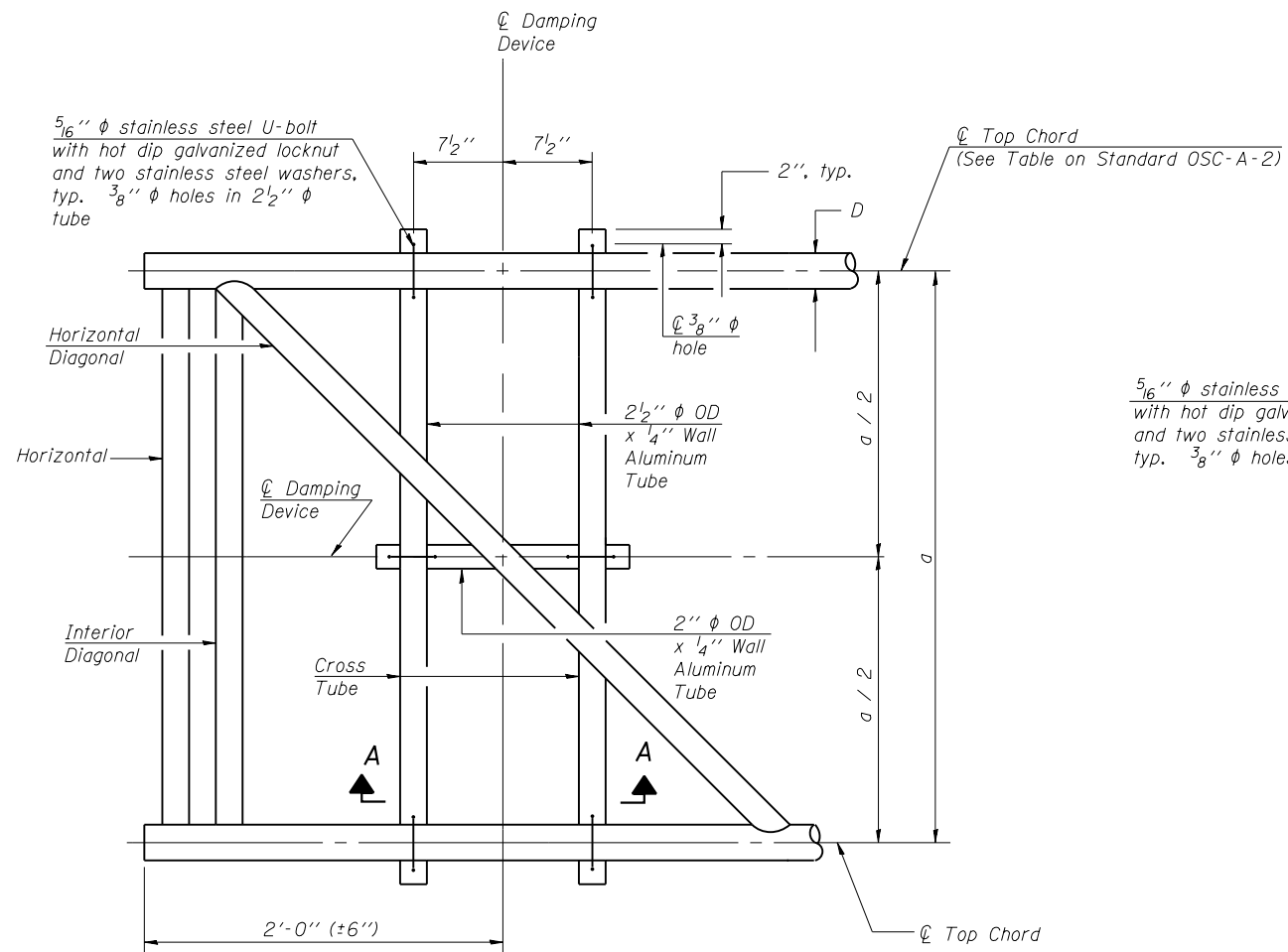
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

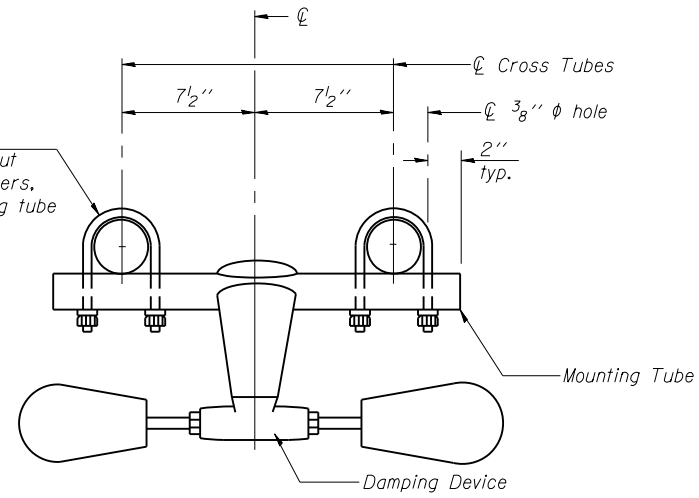
SHEET NO. 11 OF 19 SHEETS

F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 151
CONTRACT NO. 60W75				

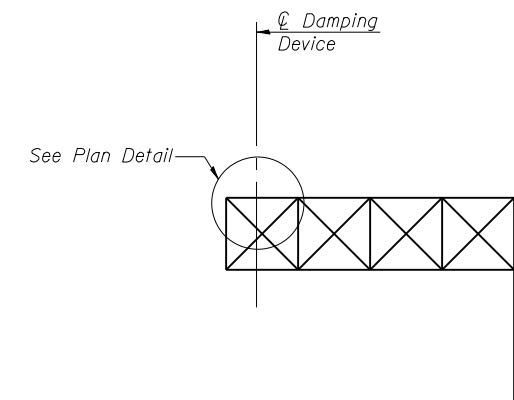
ILLINOIS FED. AID PROJECT



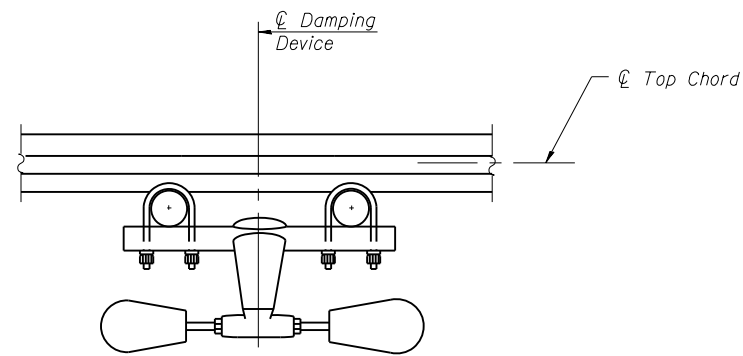
PLAN DETAIL



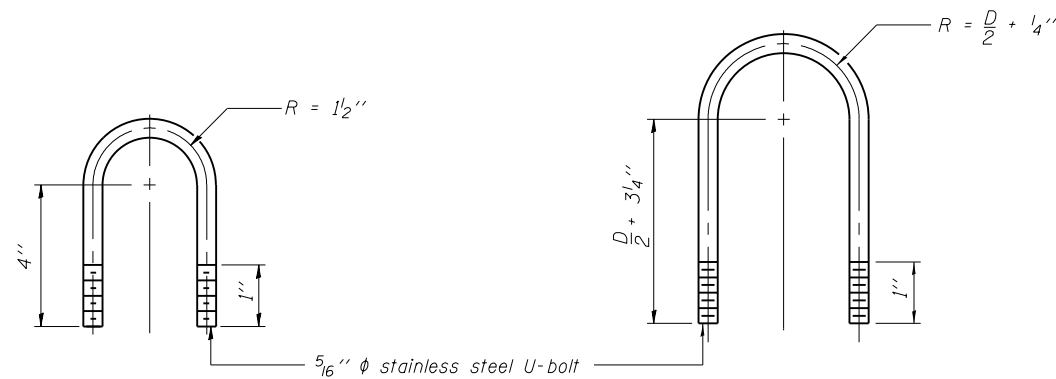
TRUSS DAMPING DEVICE CONNECTION DETAIL



ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

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

GENERAL NOTES

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

OSC-A-D

6-1-12



USER NAME =	DESIGNED - HP	REVISED -
FILE NAME =	CHECKED - JJA	REVISED -
PLOT SCALE =	DRAWN - HP	REVISED -
PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

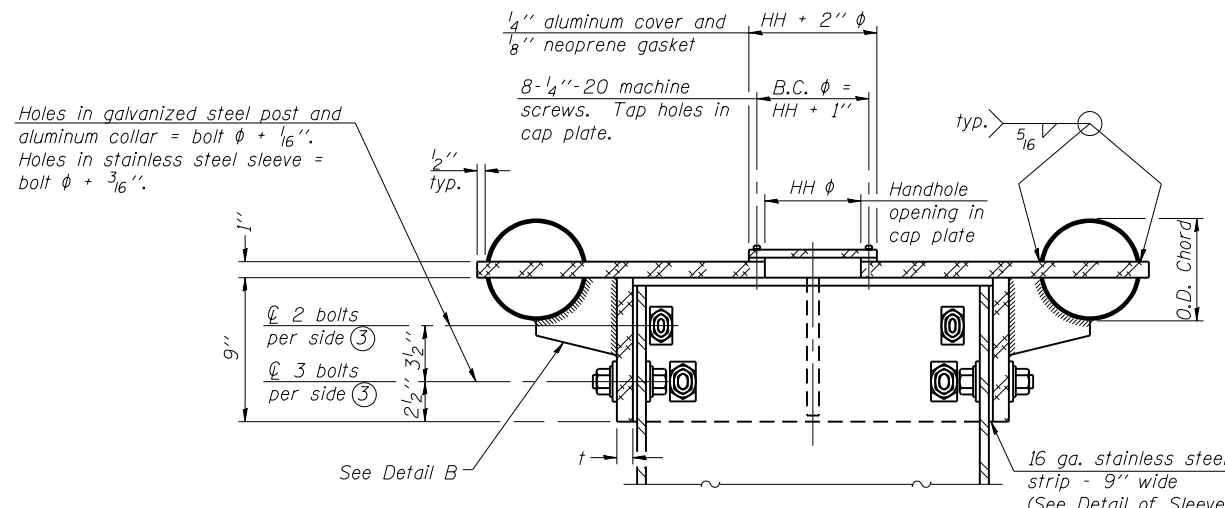
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

SHEET NO. 12 OF 19 SHEETS

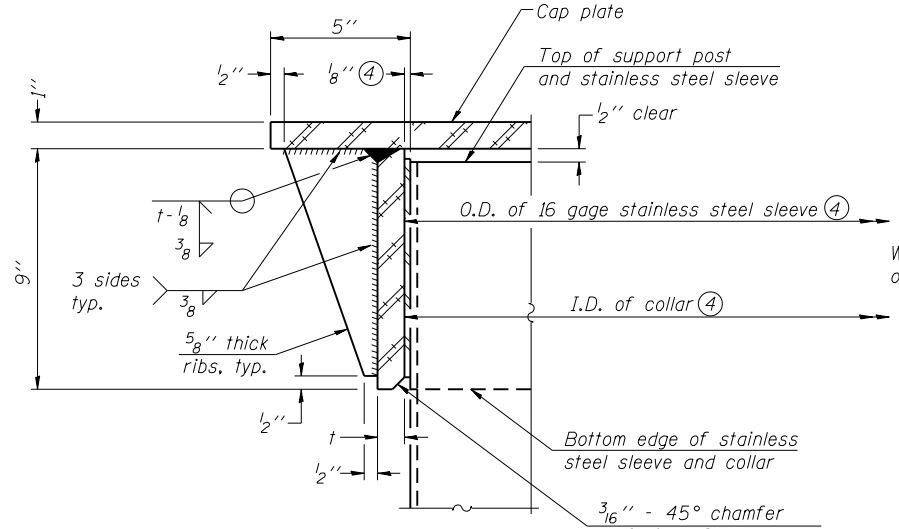
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	152
CONTRACT NO. 60W75				

ILLINOIS FED. AID PROJECT

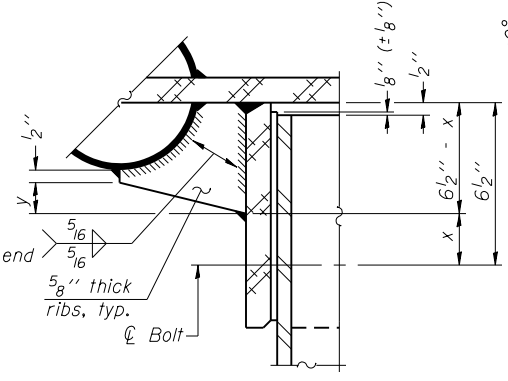


④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.

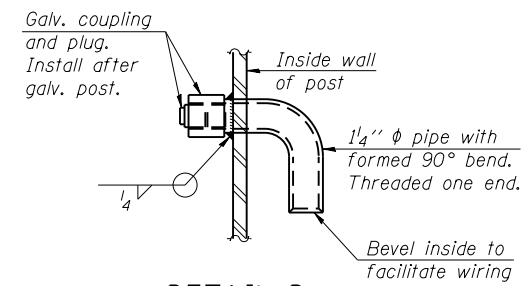
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



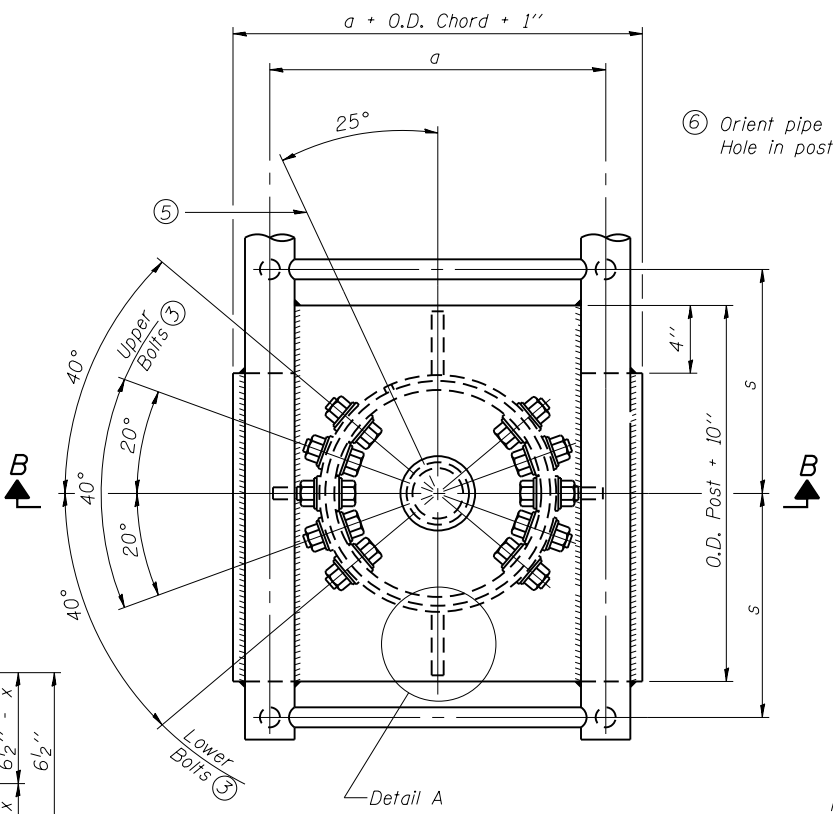
DETAIL A
(Two locations)
3/16" - 45° chamfer on inside of collar to facilitate field assembly



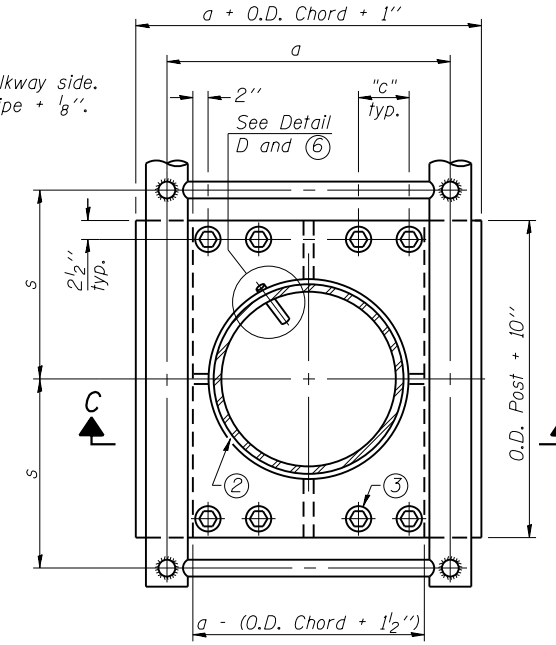
DETAIL B
Two locations
(For details not shown, see Detail C)



DETAIL D

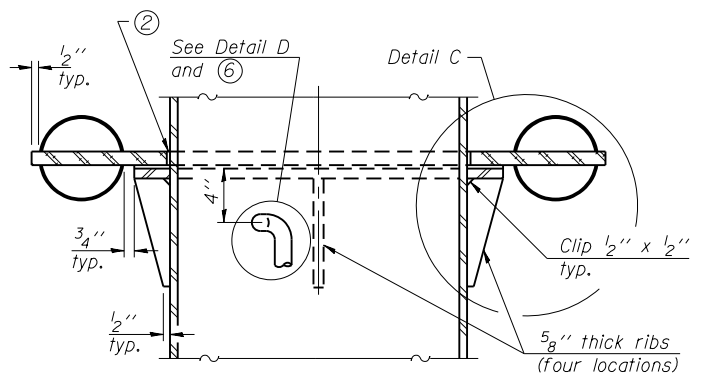


PLAN VIEW - TOP OF COLUMN
⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

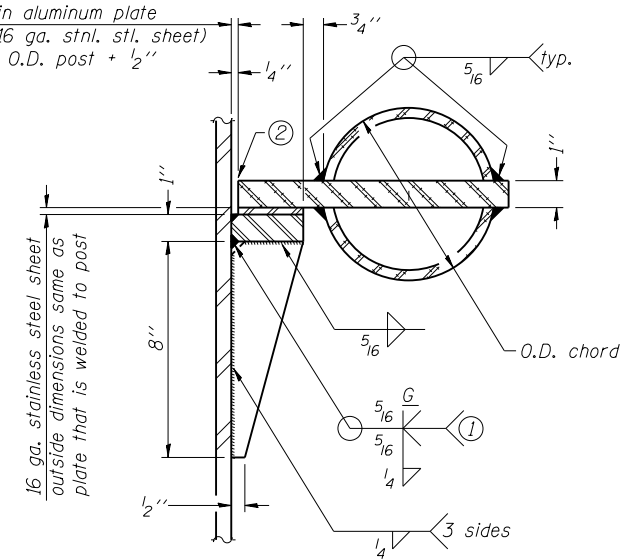


SECTION THRU POST ABOVE LOWER CHORDS

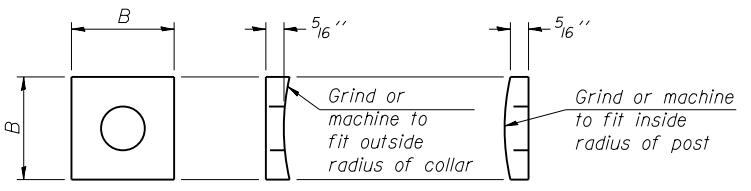
Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"



SECTION C-C



DETAIL C



CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

DETAIL OF STAINLESS STEEL SLEEVE

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

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" phi (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" phi (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" phi (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" phi (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3

6-1-12

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =
FILE NAME =
PLOT SCALE =
PLOT DATE = 07/30/2015

DESIGNED - HP
CHECKED - JJA
DRAWN - HP
CHECKED - JJA

REVISED -
REVISED -
REVISED -
REVISED -

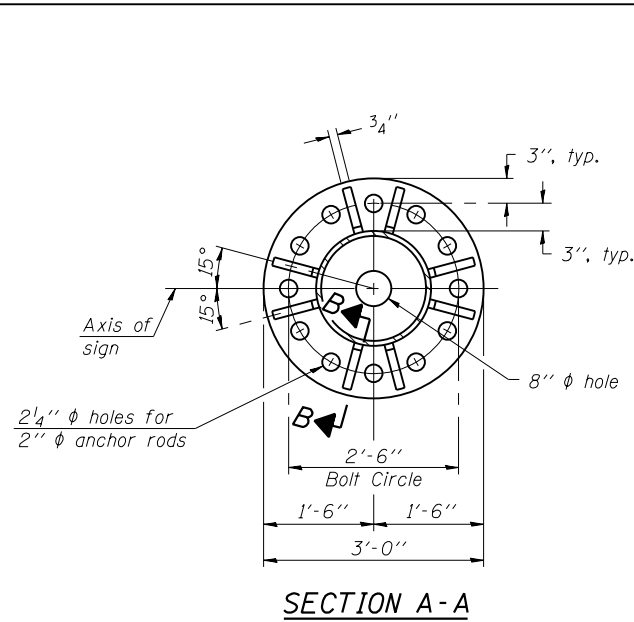
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

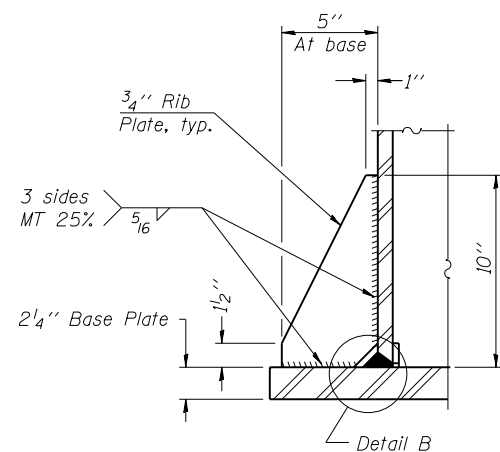
SHEET NO. 13 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	153
CONTRACT NO. 60W75				

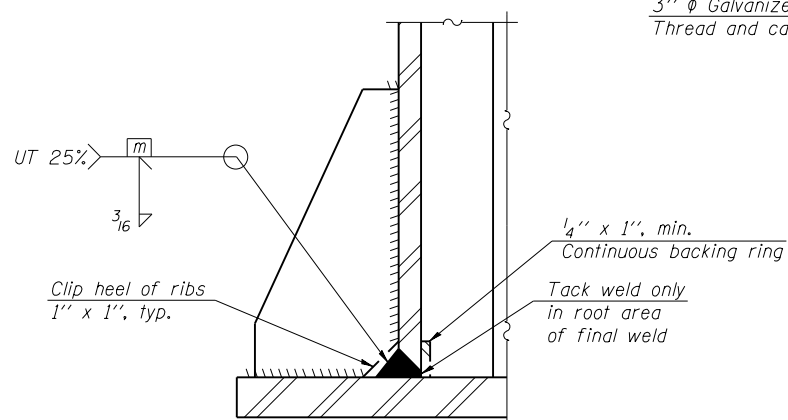
ILLINOIS FED. AID PROJECT



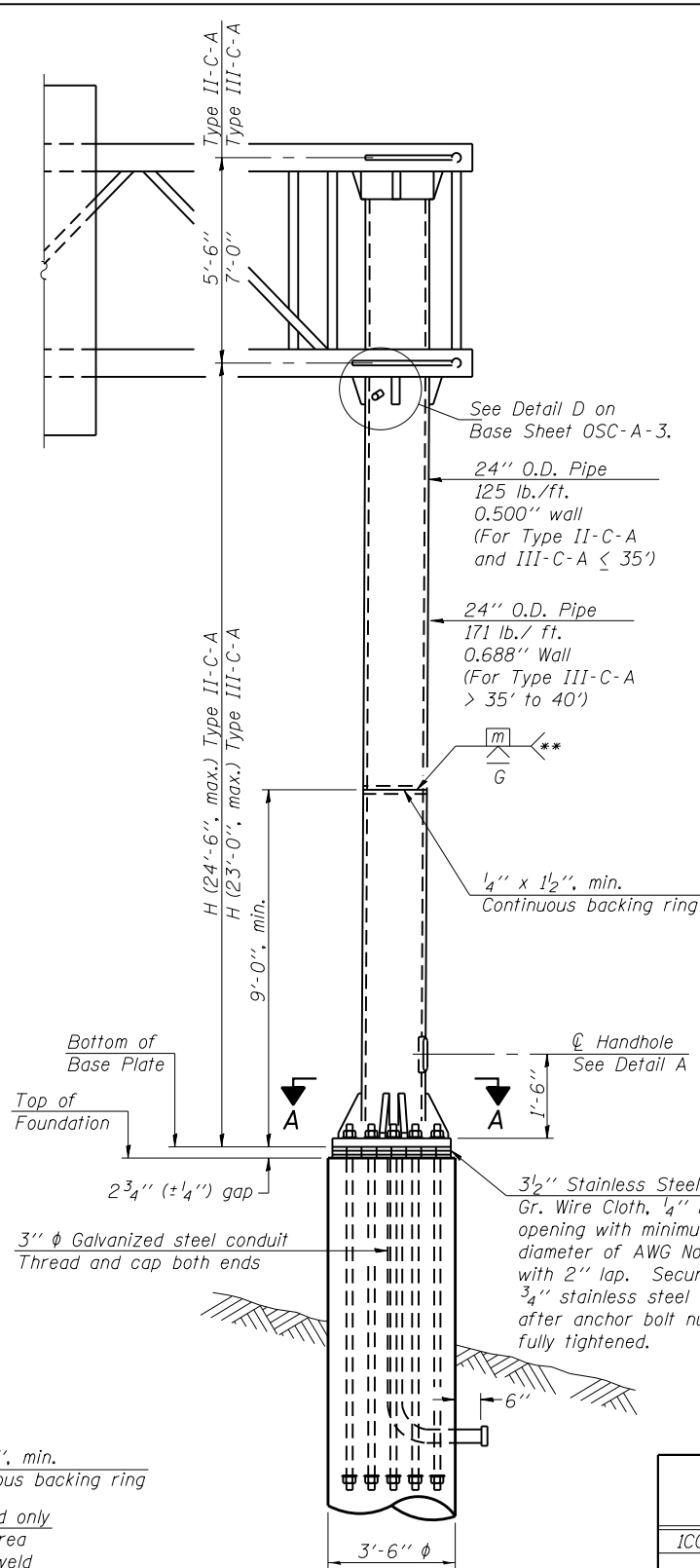
SECTION A-A



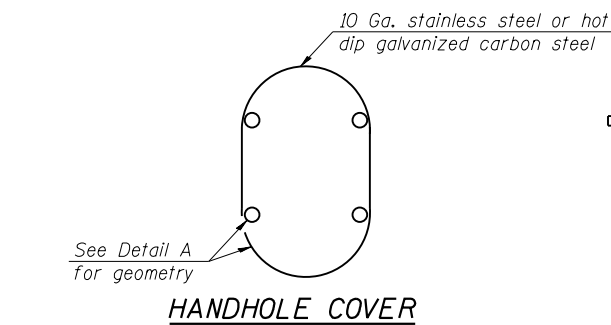
SECTION B-B



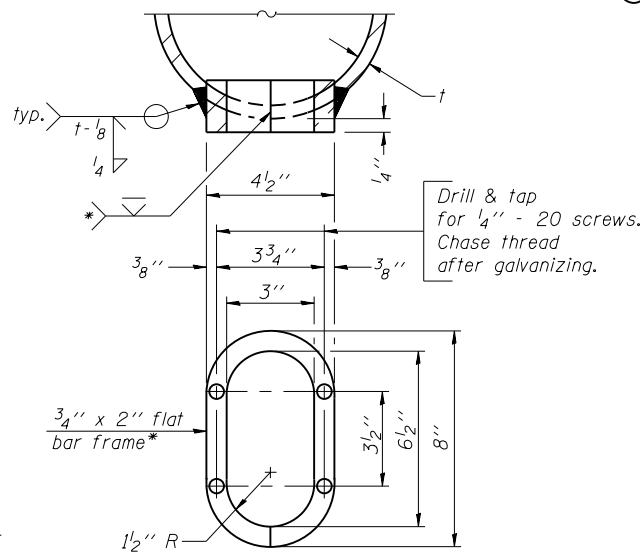
DETAIL B
(Typical rib)



FRONT ELEVATION
For Foundation Details see Base Sheet OSC-A-9.



HANDHOLE COVER

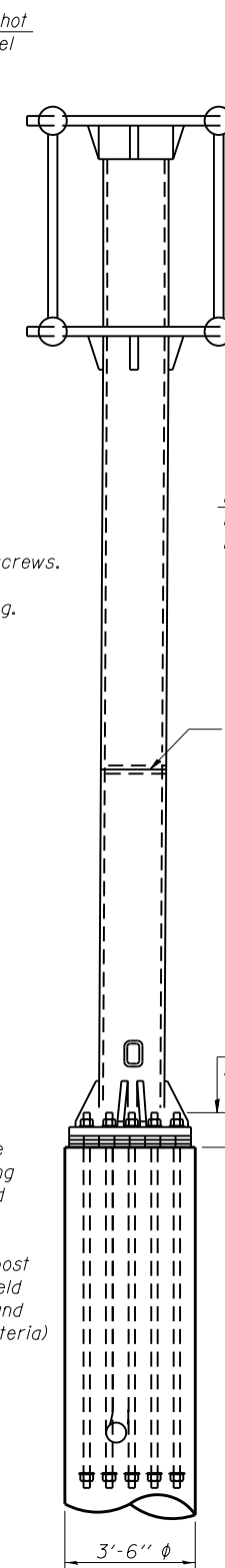


DETAIL A

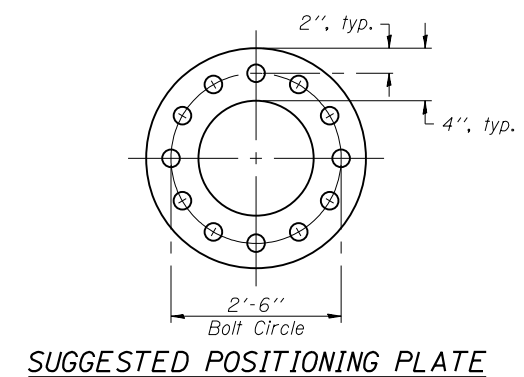
Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" diameter holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

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

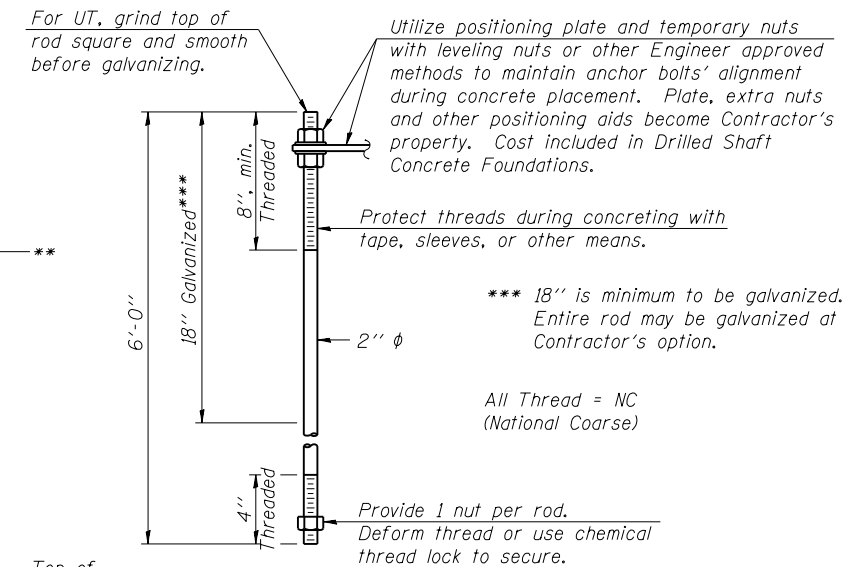
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III Inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

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

All Thread = NC (National Coarse)

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

Structure Number	Station	H
1C016S171R000.0-002	67+34.00	21.02'
1C016S171R000.0-001	43+20.00	21.02'
1C016S171R000.0-000	15+57.00	21.02'

Note: "H" based on 15'-0" or actual sign height, whichever is greater.

OSC-A-5

6-1-12

LE LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	DESIGNED - HP	REVISED -
FILE NAME =	CHECKED - JJA	REVISED -
PLOT SCALE =	DRAWN - HP	REVISED -
PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

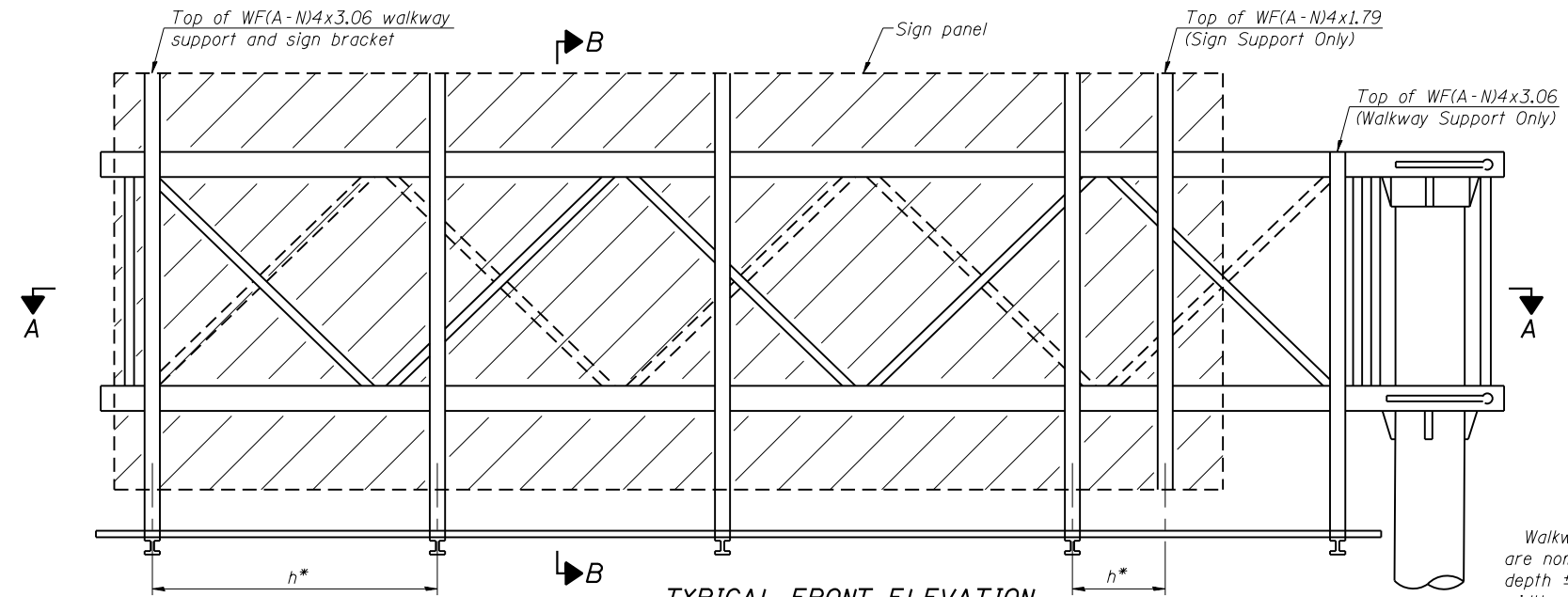
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	154
CONTRACT NO. 60W75				

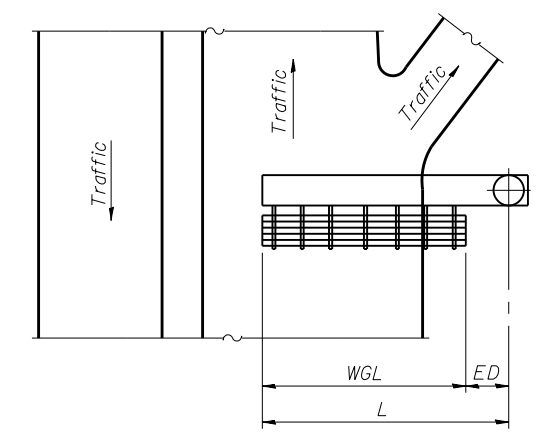
SHEET NO. 14 OF 19 SHEETS

ILLINOIS FED. AID PROJECT

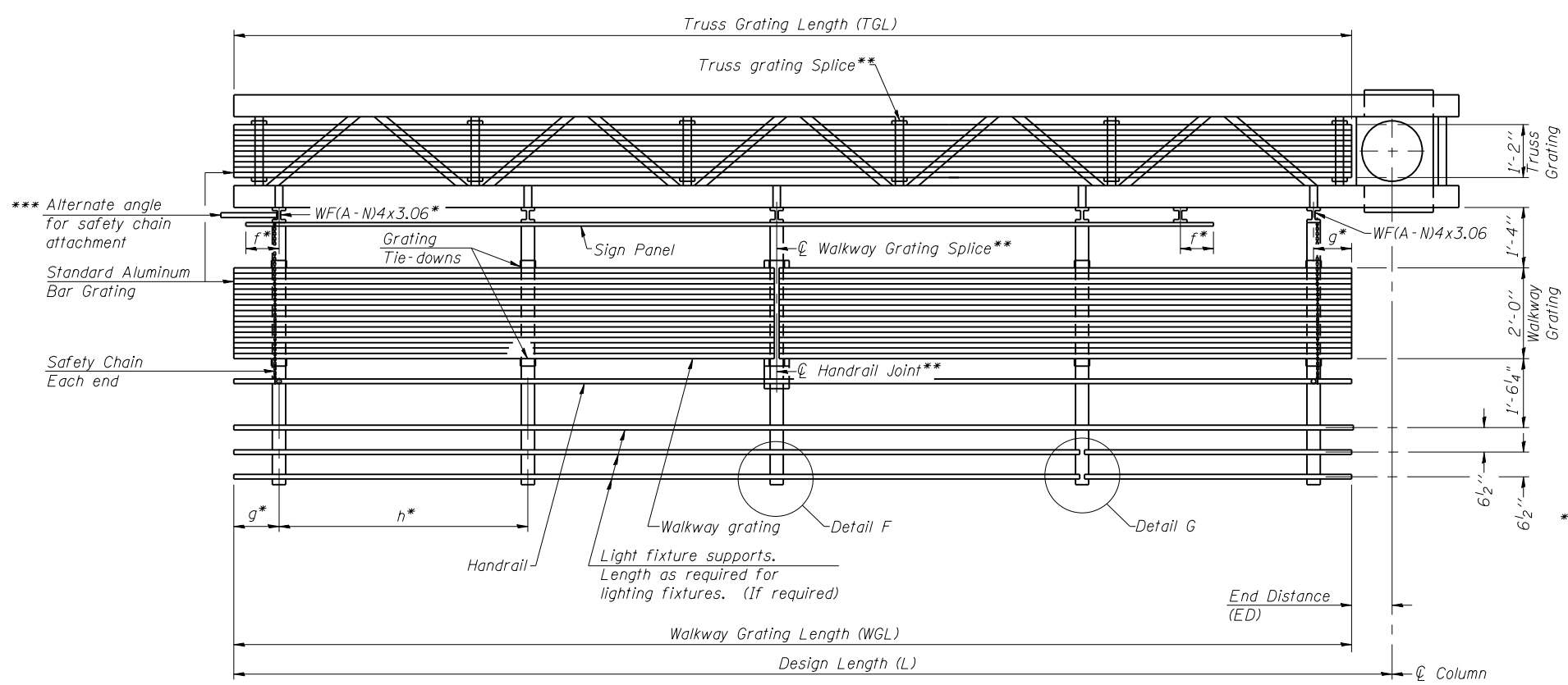


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

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



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



SECTION A-A

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

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

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

Structure Number	Station	WGL	ED	TGL
IC016S171R000.0-002	67+34.00			28.50'
IC016S171R000.0-001	43+20.00			28.50'
IC016S171R000.0-000	15+57.00			28.50'

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

BRACKET TABLE

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
	14'-0"	3
	20'-0"	4
	26'-0"	5
	32'-0"	6

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

OSC-A-6

6-1-12



USER NAME =	DESIGNED - HP	REVISED -
FILE NAME =	CHECKED - JJA	REVISED -
PLOT SCALE =	DRAWN - HP	REVISED -
PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

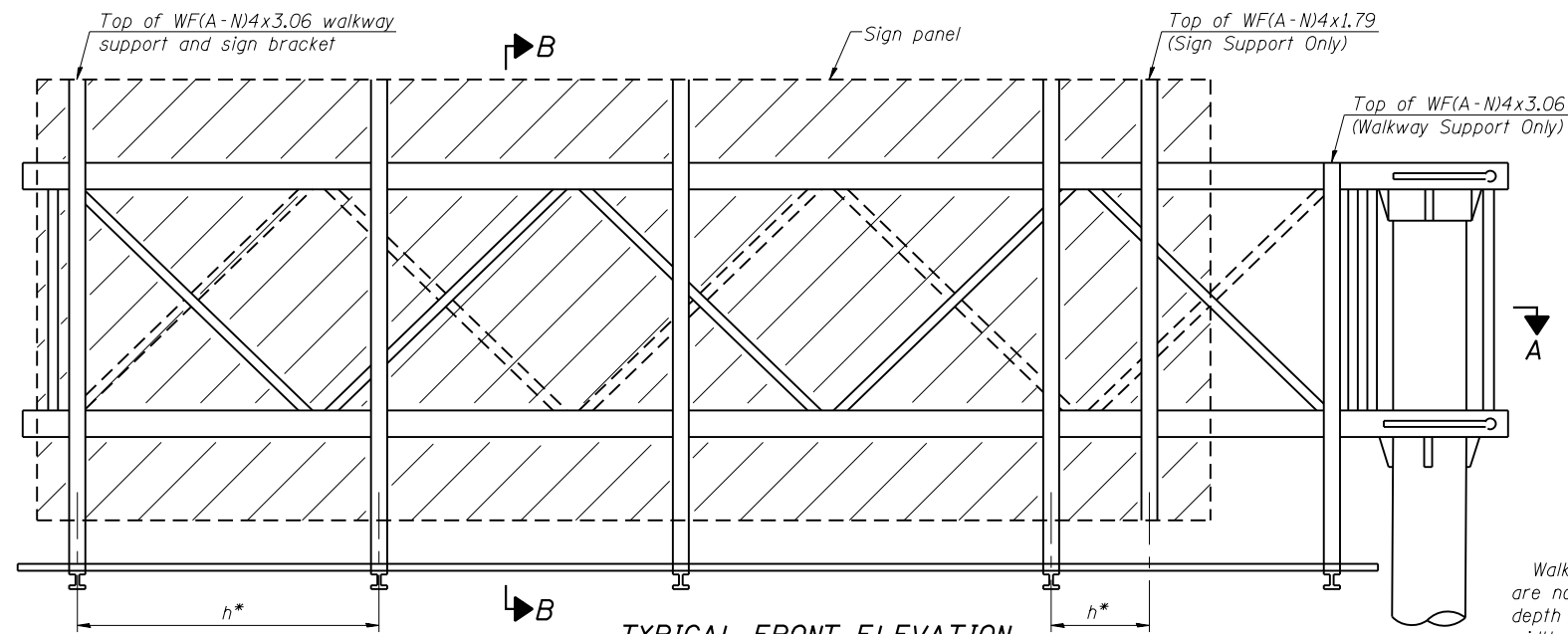
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

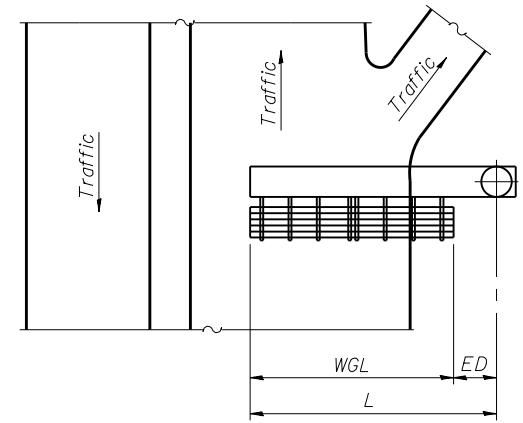
SHEET NO. 15 OF 19 SHEETS

F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 155
CONTRACT NO. 60W75				

ILLINOIS FED. AID PROJECT

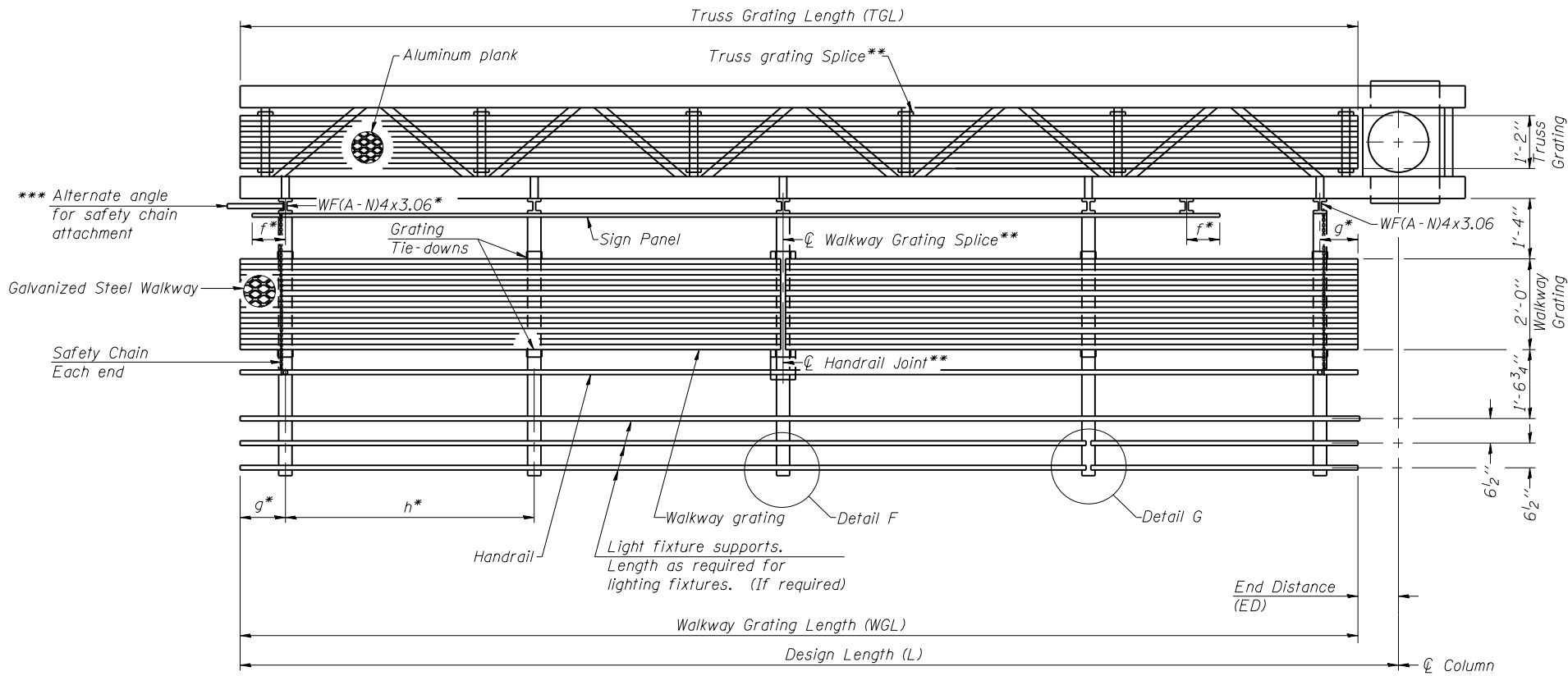


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.



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

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



SECTION A-A

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

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

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

Structure Number	Station	WGL	ED	TGL
1C016S171R000.0-002	67+34.00			28.50'
1C016S171R000.0-001	43+20.00			28.50'
1C016S171R000.0-000	15+57.00			28.50'

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

BRACKET TABLE

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

OSC-A-6S

6-1-12



USER NAME =	DESIGNED - HP	REVISED -
FILE NAME =	CHECKED - JJA	REVISED -
PLOT SCALE =	DRAWN - HP	REVISED -
PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

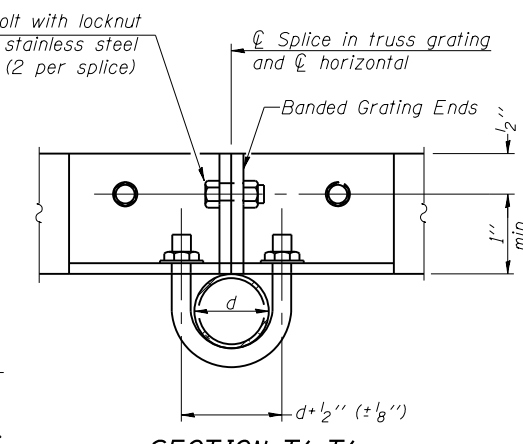
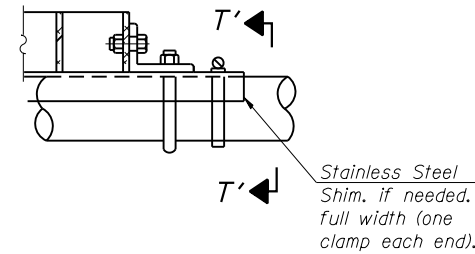
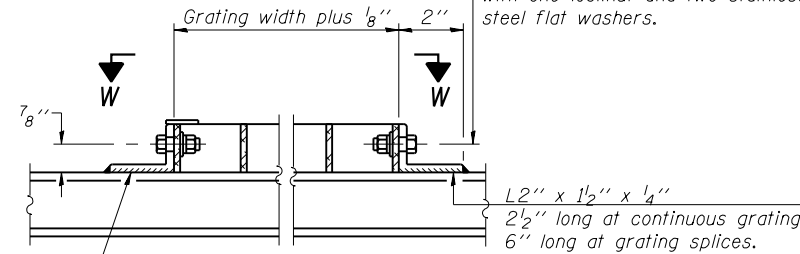
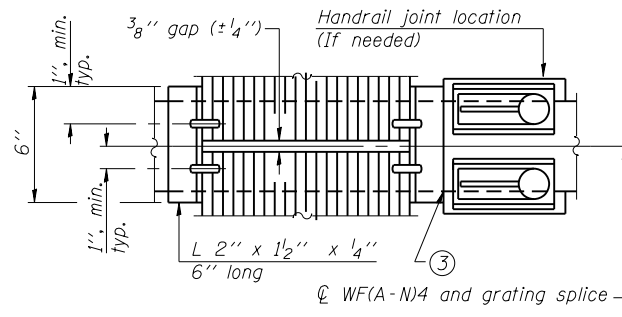
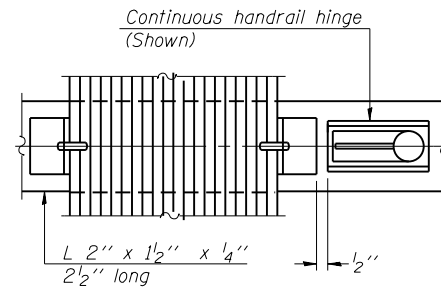
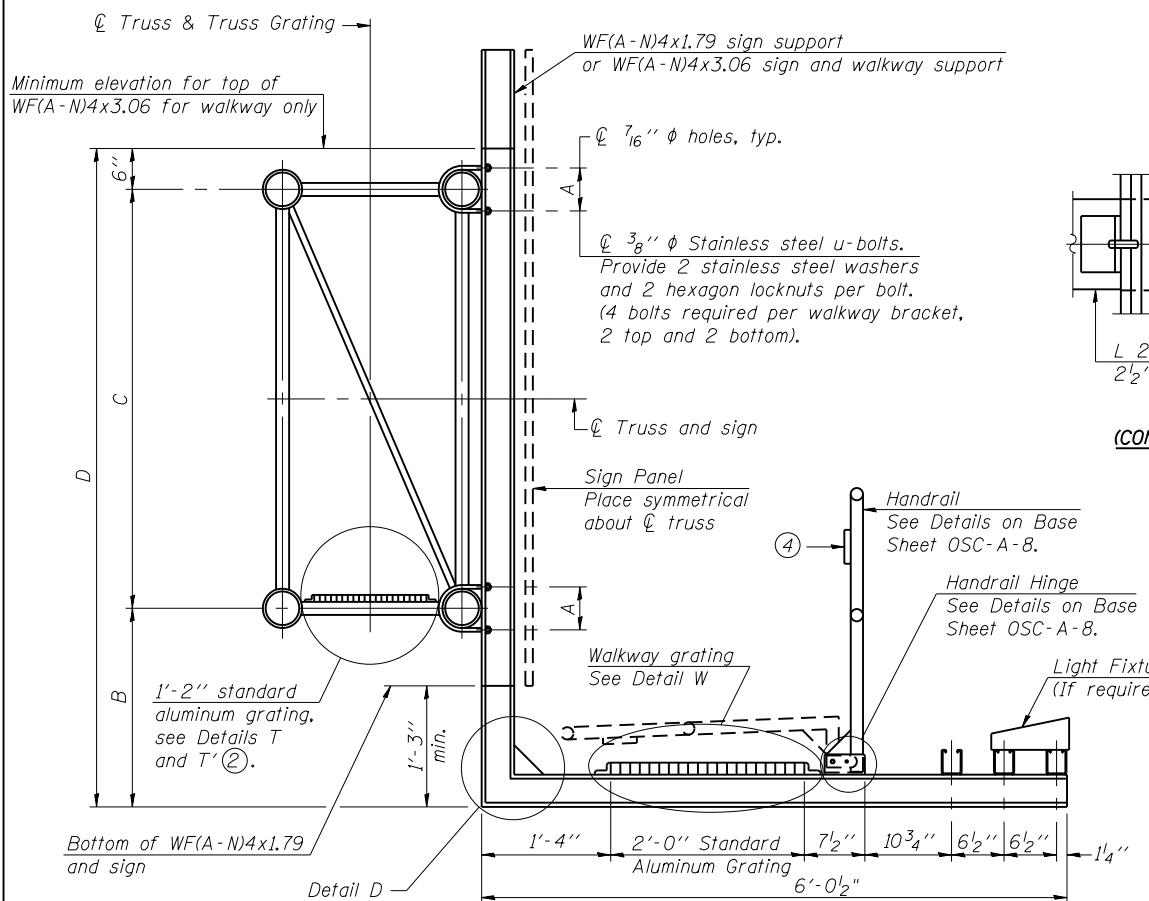
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 16 OF 19 SHEETS

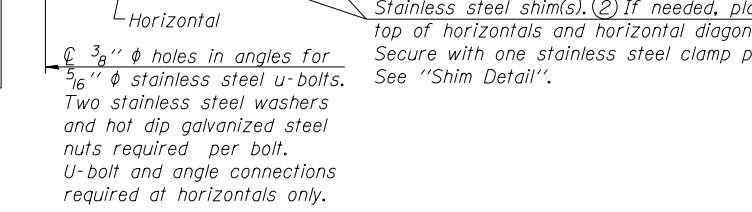
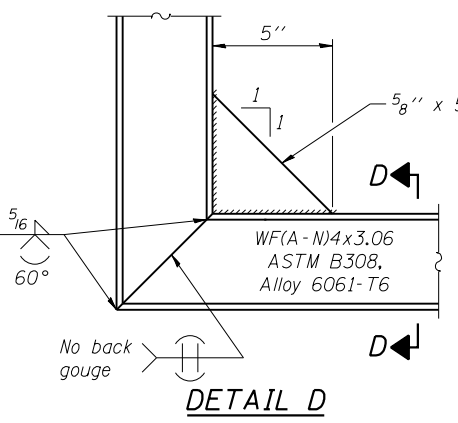
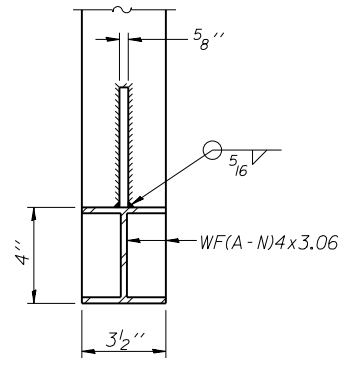
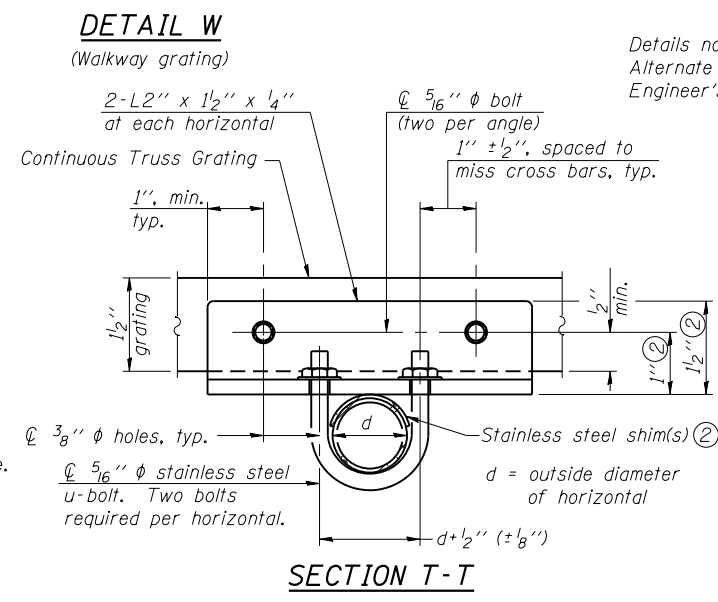
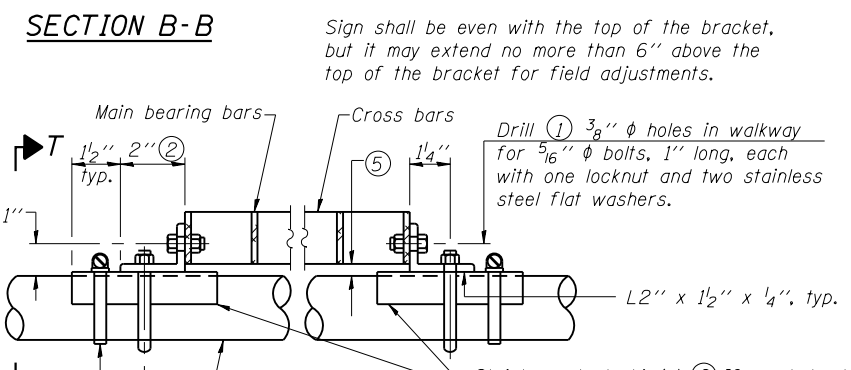
F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 156
CONTRACT NO. 60W75				

ILLINOIS FED. AID PROJECT



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

OR
 Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- ④ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- ⑥ Based on actual sign height, D_s, given on OSC-A-1.

Structure Number	Station	A	⑥ B	C	⑥ D
1C016S171R000.0-002	67+34.00	7 1/2"	6"	7'-0"	8'-0"
1C016S171R000.0-001	43+20.00	7 1/2"	6"	7'-0"	8'-0"
1C016S171R000.0-000	15+57.00	7 1/2"	1'-6"	7'-0"	9'-0"

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

OSC-A-7

6-1-12

LE LIN ENGINEERING, LTD.
 Consulting Engineers
 Springfield, Illinois

USER NAME =
 FILE NAME =
 PLOT SCALE =
 PLOT DATE = 07/30/2015

DESIGNED - HP
 CHECKED - JJA
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 CHECKED - JJA

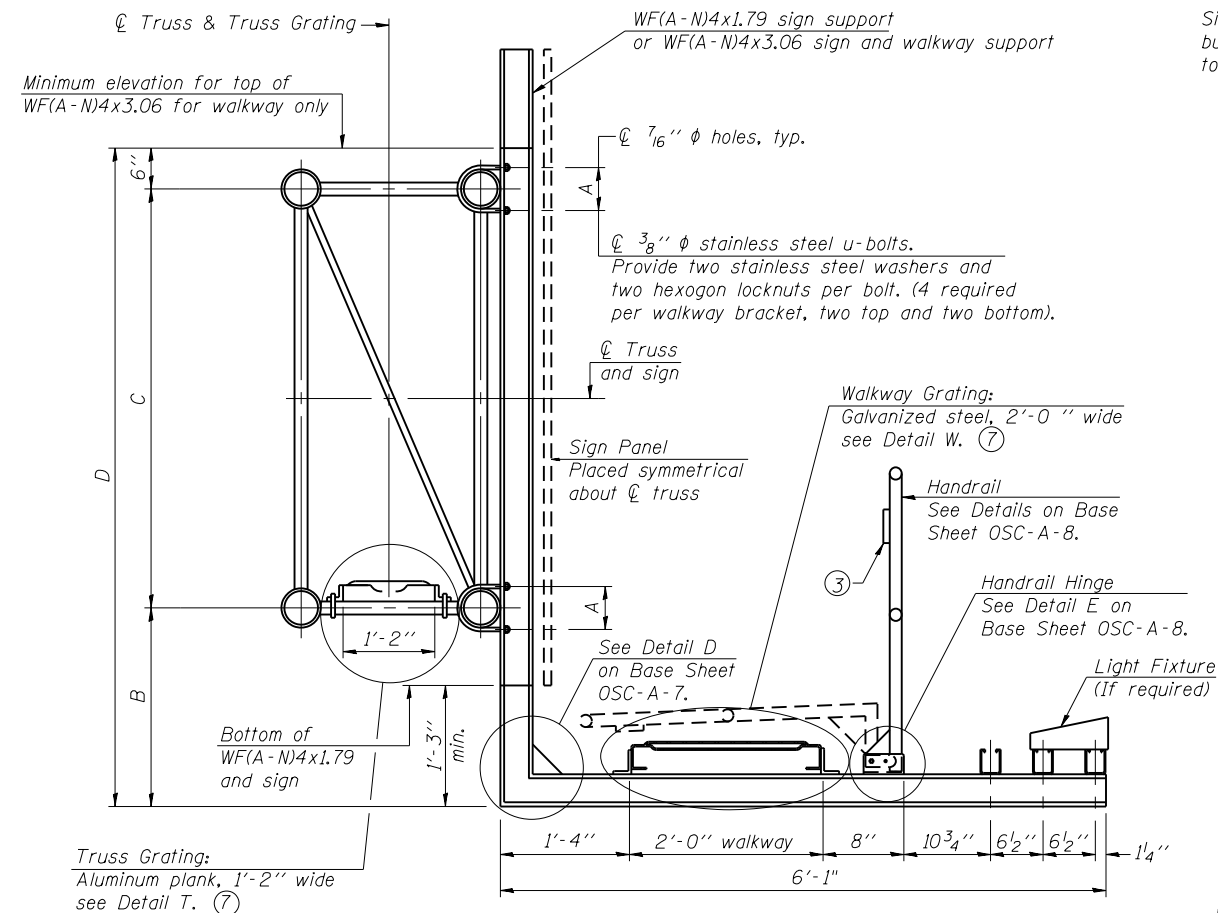
REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

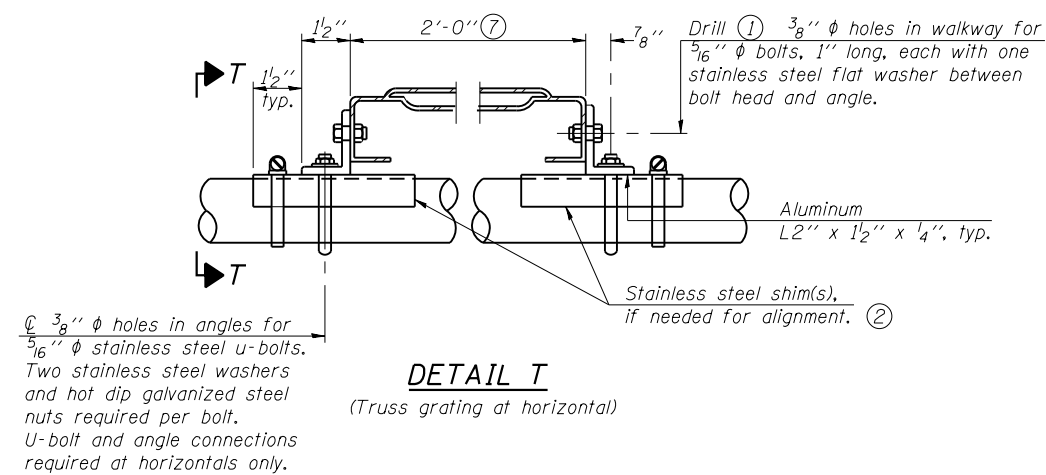
**CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS
 ALUMINUM TRUSS & STEEL POST**

SHEET NO. 17 OF 19 SHEETS

F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 157
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				

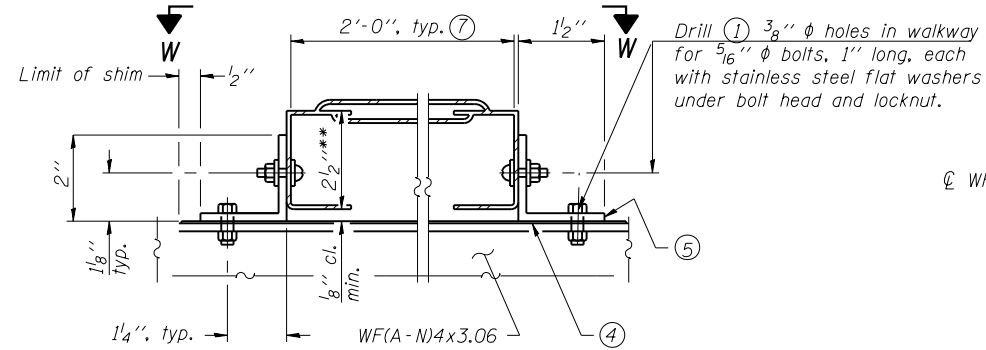


SECTION B-B

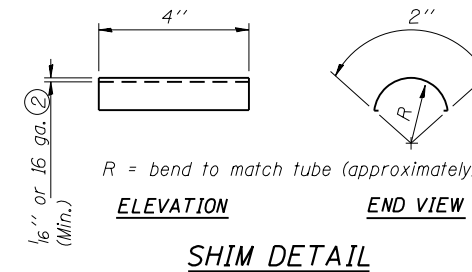


DETAIL T
(Truss grating at horizontal)

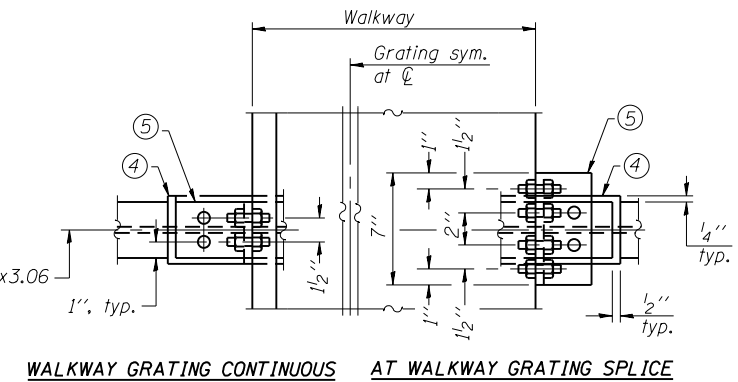
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



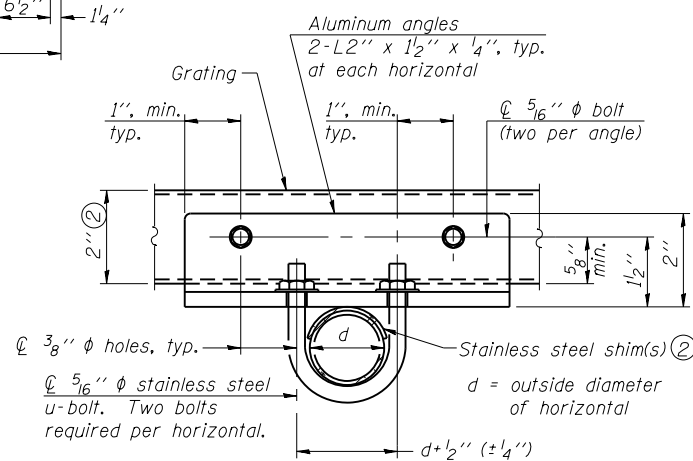
DETAIL W
GALVANIZED STEEL WALKWAY GRATING



SHIM DETAIL

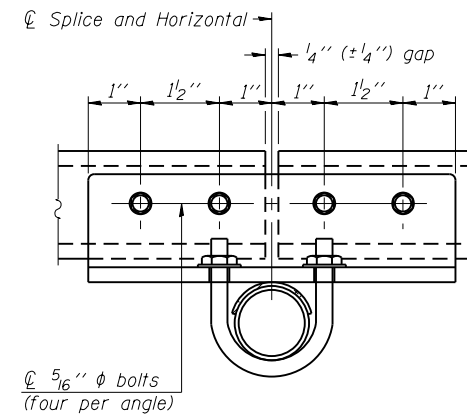


SECTION W-W



SECTION T-T
(Truss Grating Continuous)

ALUMINUM TRUSS GRATING



SECTION T-T

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

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

WALKWAY GRATING, WALKWAY SUPPORTS, HANDRAIL AND LIGHTING ARE NOT INCLUDED IN THIS CONTRACT. INFORMATION SHOWN ON THIS SHEET SHALL BE USED FOR TRUSS GRATING AND SIGN BRACKETS ONLY.

Structure Number	Station	A	⑧ B	C	⑧ D
1C016S171R000.0-002	67+34.00	7 1/2"	6"	7'-0"	8'-0"
1C016S171R000.0-001	43+20.00	7 1/2"	6"	7'-0"	8'-0"
1C016S171R000.0-000	15+57.00	7 1/2"	1'-6"	7'-0"	9'-0"

OSC-A-7S

6-1-12

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Consulting Engineers
Springfield, Illinois

USER NAME =	DESIGNED - HP	REVISED -
FILE NAME =	CHECKED - JJA	REVISED -
PLOT SCALE =	DRAWN - HP	REVISED -
PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

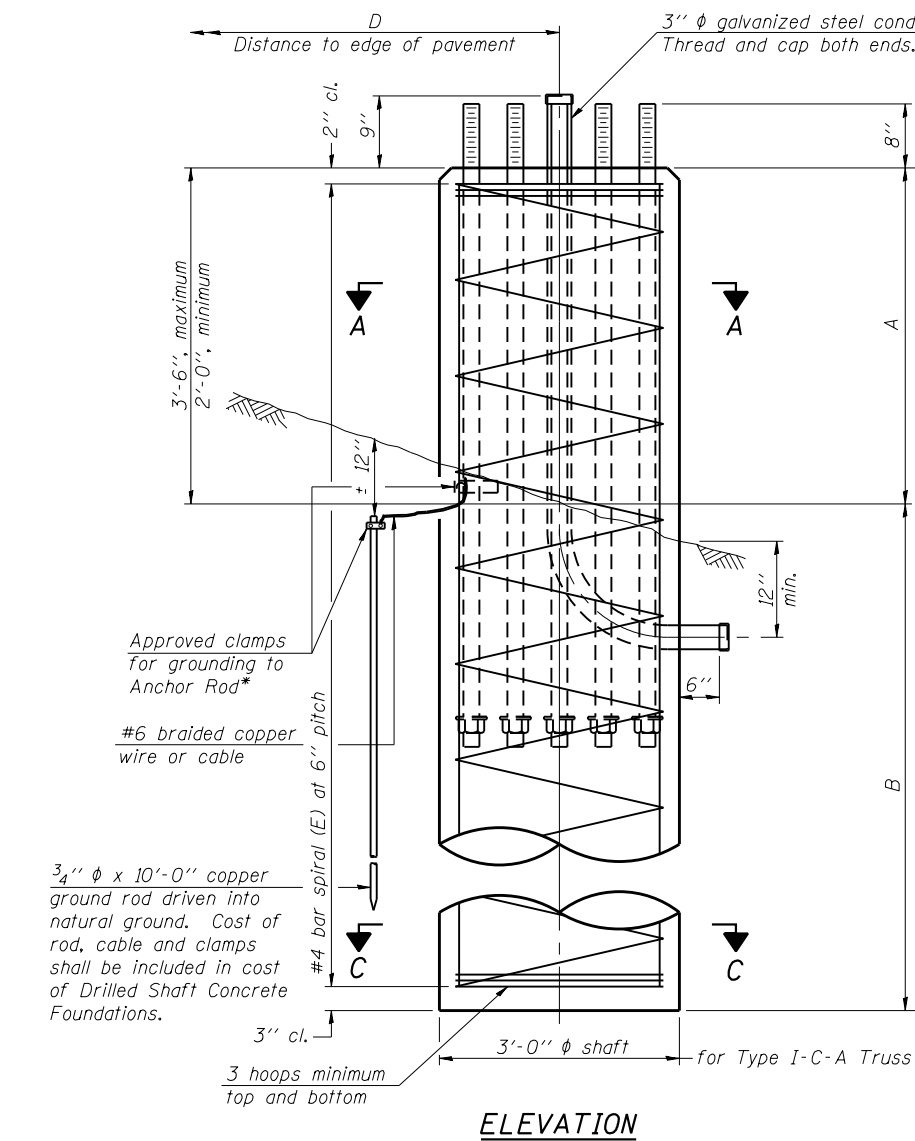
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

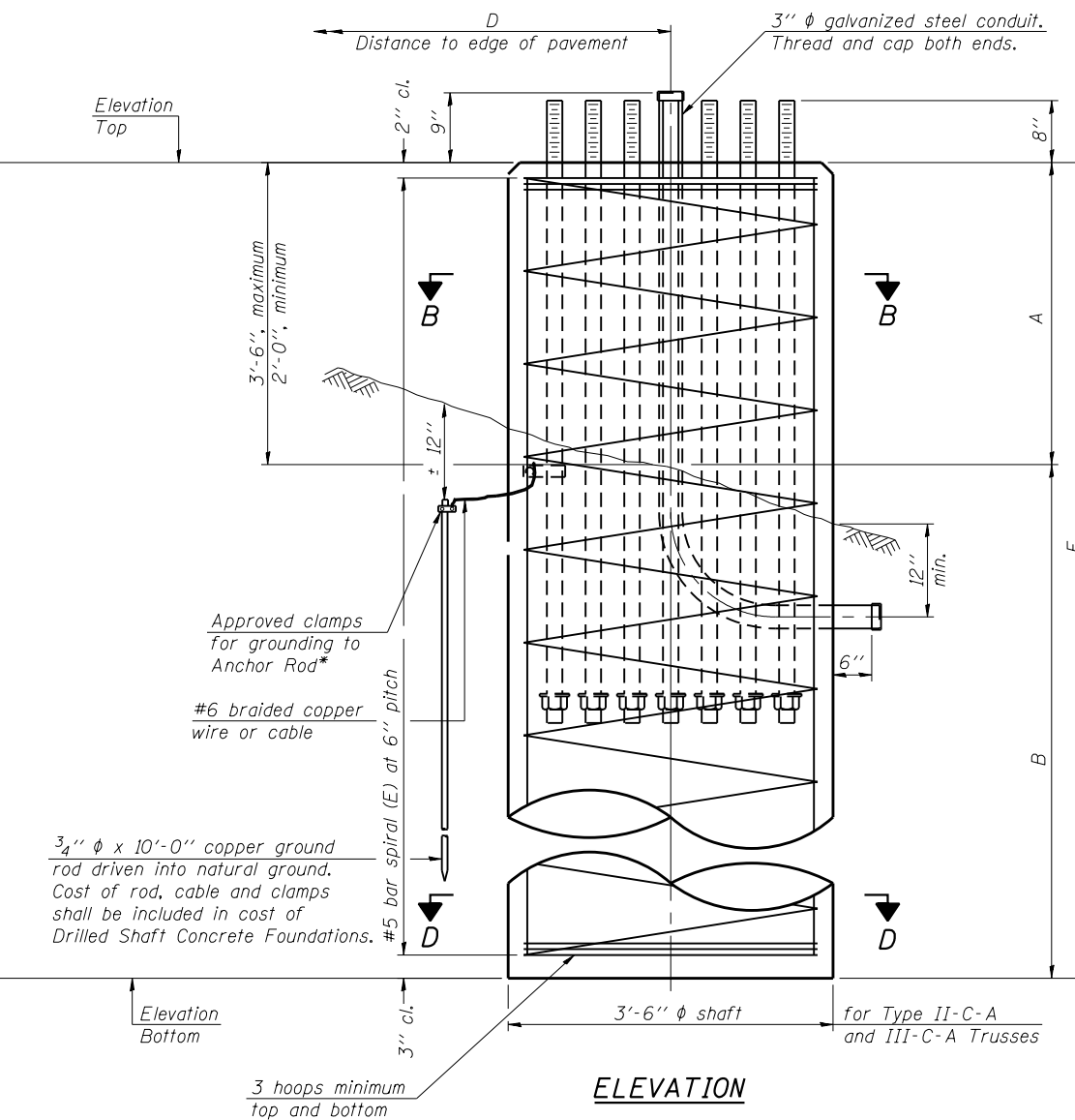
SHEET NO. 18 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	158
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				

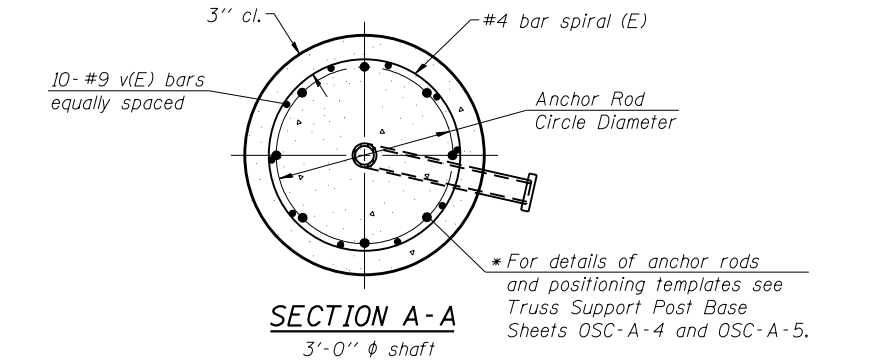
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



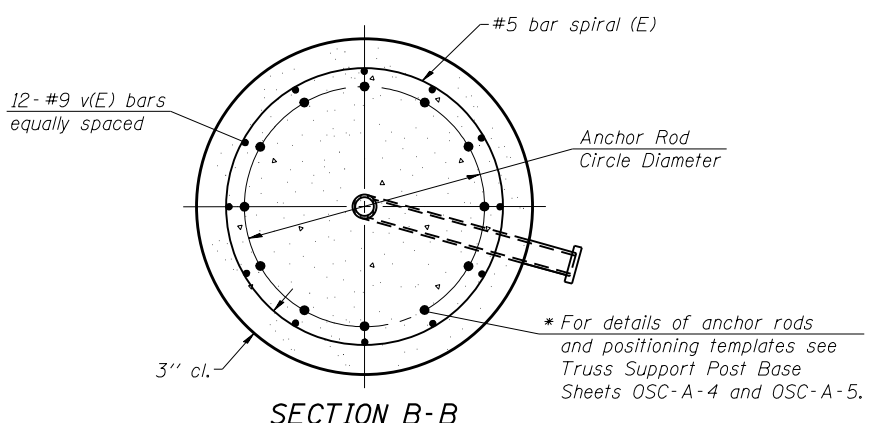
ELEVATION



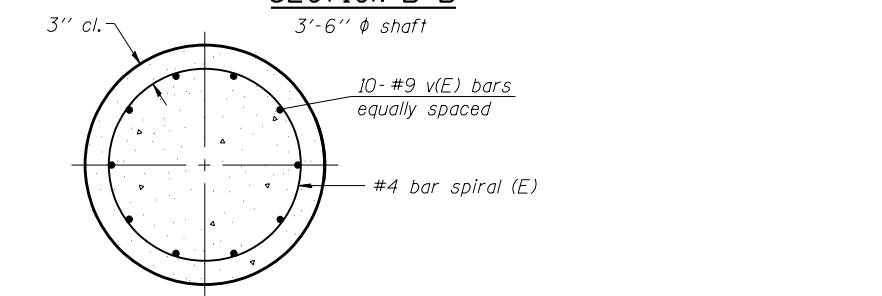
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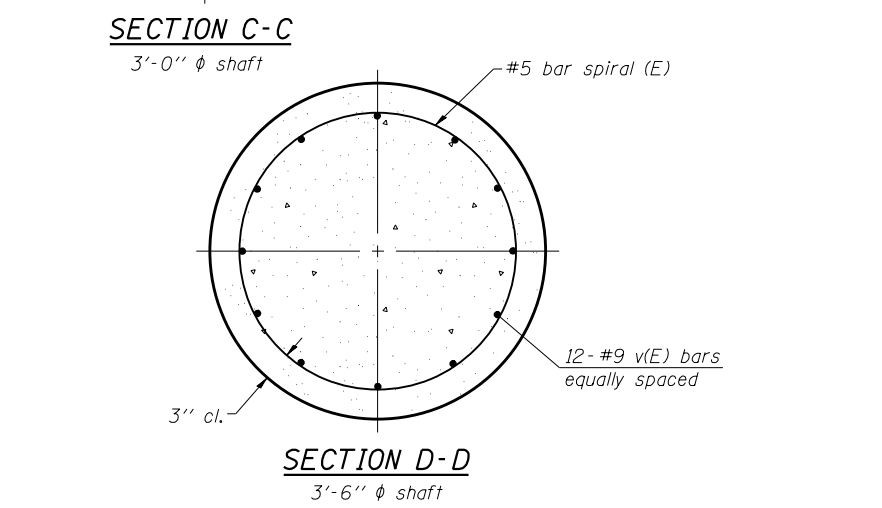
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Q_u) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Q_u	A	B	F	Class DS Concrete Cubic Yards
1C016S171R000.0-002	67+34.00	III-C-A	3.50'	620.60	592.10	1.25 tsf	2.00'	26.50'	28.50'	10.2
1C016S171R000.0-001	43+20.00	III-C-A	3.50'	620.60	592.10	1.25 tsf	2.00'	26.50'	28.50'	10.2
1C016S171R000.0-000	15+57.00	III-C-A	3.50'	619.80	591.30	1.25 tsf	2.00'	26.50'	28.50'	10.2

OSC-A-9

8-21-13

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Consulting Engineers
Springfield, Illinois

USER NAME =	DESIGNED - HP	REVISED -
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PLOT SCALE =	DRAWN - HP	REVISED -
PLOT DATE = 07/30/2015	CHECKED - JJA	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

SHEET NO. 19 OF 19 SHEETS

F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 159
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



GSJ Job No. 10025

SOIL BORING LOG

Page 1 of 1

Date 9/16/13

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY CW

SECTION 2013-037B-R LOCATION NW 1/4, SEC. 13, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M
Station	(ft)	(Bulge)	(Shear)	(Penetrometer)	n/a ft	(ft)	(Bulge)	(Shear)	(Penetrometer)
12.0" ASPHALT									
12.0" CRUSHED STONE	626.80								
CLAY LOAM-dark brown & gray spotted black-stiff to very stiff (Fill)	625.80								
	3								
	5								
	9								
	3								
	3	1.5		12					
	5	P							
	-5								
	3								
	4	1.8		17					
	7	B							
	5								
	6	3.6		18					
	7	B							
	-10								
	5								
	7	1.5		18					
	8	B							
	4								
	6	2.2		18					
	-15	B							
	3								
	5	2.1		18					
	8	B							
	3								
	4	1.4		20					
	7	B							
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



GSJ Job No. 10025

SOIL BORING LOG

Page 1 of 1

Date 9/17/13

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY CW

SECTION 2013-037B-R LOCATION SW 1/4, SEC. 12, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M
Station	(ft)	(Bulge)	(Shear)	(Penetrometer)	n/a ft	(ft)	(Bulge)	(Shear)	(Penetrometer)
13.0" ASPHALT									
5.0" CLAYEY SAND & GRAVEL	625.52								
CLAY LOAM-brown & gray-very stiff (Fill)	625.10								
	3								
	4								
	5								
	6	3.3		19					
	10	B							
	-5								
	8								
	12	3.5		17					
	13	P							
	4								
	6	2.2		19					
	10	B							
	-10								
	6								
	7	2.0		18					
	12	P							
	7								
	12	3.2		16					
	-15	B							
	12								
	12			25					
	14								
	608.60								
SILTY CLAY-brown & gray-medium stiff (Fill)									
	5								
	7	0.8		34					
	7	B							
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



GSJ Job No. 10025

SOIL BORING LOG

Page 1 of 1

Date 9/16/13

ROUTE FAP 372 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY CW

SECTION 2013-037B-R LOCATION SE 1/4, SEC. 11, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD HSA/MUD ROTARY HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	B	U	M	Surface Water Elev.	DEPTH	B	U	M
Station	(ft)	(Bulge)	(Shear)	(Penetrometer)	n/a ft	(ft)	(Bulge)	(Shear)	(Penetrometer)
12.0" ASPHALT									
6.0" CRUSHED STONE	619.60								
CLAY LOAM-dark brown & gray-stiff to very stiff (Fill)	619.10								
	3								
	4	2.0		24					
	5	B							
	3								
	3	1.3		22					
	4	B							
	-5								
	3								
	4	2.3		14					
	7	P							
	4								
	4	1.8		16					
	6	P							
	-10								
	7								
	6	3.3		18					
	7	B							
	3								
	3	1.2		19					
	-15	B							
	3								
	5	2.3		20					
	6	P							
	5								
	6								
	7								
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

FILE NAME =	DESIGNED -	REVISED -
...\\D160W75-sh1-n-NB-01.dgn	DRAWN -	REVISED -
USER NAME = jmajewski	CHECKED -	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
SOIL BORING LOGS

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	160
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



GSI Job No. 10025

SOIL BORING LOG

Page 1 of 1

Date 1/19/15

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY NW

SECTION 2013-037B-R LOCATION NW 1/4, SEC. 13, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD GEO PROBE HAMMER TYPE N/A

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
Station	(ft)	(/6")	(tsf)	(%)	n/a ft	n/a ft	First Encounter
BORING NO.					Upon Completion		
Station					After		
Offset					Hrs.		
Ground Surface Elev.					ft		
TOPSOIL-black				30			
	610.00						
CLAY LOAM with Gravel & Stone-brown & gray (Fill)				12			
				9			
				12			
	603.50						
Auger Refusal @ -8.5'. End Of Boring @ -8.5'. Boring backfilled with cuttings.	-10						
	-15						
	-20						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



GSI Job No. 10025

SOIL BORING LOG

Page 1 of 1

Date 1/19/15

ROUTE FAP 373 (IL 171) DESCRIPTION IL Route 171 from 47th St. to 55th St. LOGGED BY NW

SECTION 2013-037B-R LOCATION NW 1/4, SEC. 13, TWP. T38N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
Station	(ft)	(/6")	(tsf)	(%)	n/a ft	n/a ft	First Encounter
BORING NO.					Upon Completion		
Station					After		
Offset					Hrs.		
Ground Surface Elev.					ft		
11.0" ASPHALT	612.98						
CLAY LOAM-brown & gray-very stiff (Possible Fill)	5	4	4.3 B	16			
	6						
	3						
	8	4.5		15			
	9	P					
	-5						
	10						
	8	3.0		8			
	10	P					
	7						
	14	3.0		14			
	16	P					
	-10						
	8						
	50/4"			13			
	3						
	4	3.3		20			
	8	B					
	-15						
CLAY LOAM-brown & gray-very stiff (Possible Fill)	4						
	7	2.7		19			
	7	B					
	2						
	4	2.7		21			
	5	B					
	-20						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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USER NAME = jmajewski	CHECKED -	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

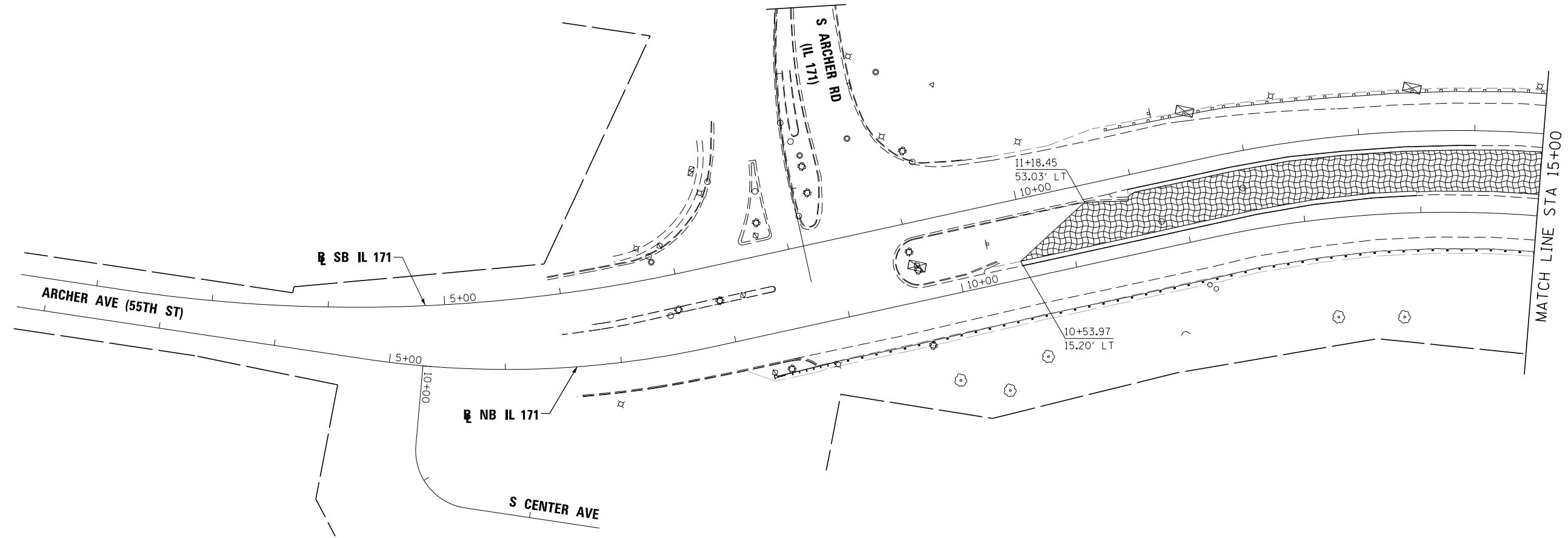


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
SOIL BORING LOGS

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

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	162
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED)
EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B,
EROSION CONTROL BLANKET

FILE NAME =	DESIGNED - SEW	REVISED -
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USER NAME = jmajewski	CHECKED - WLS	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

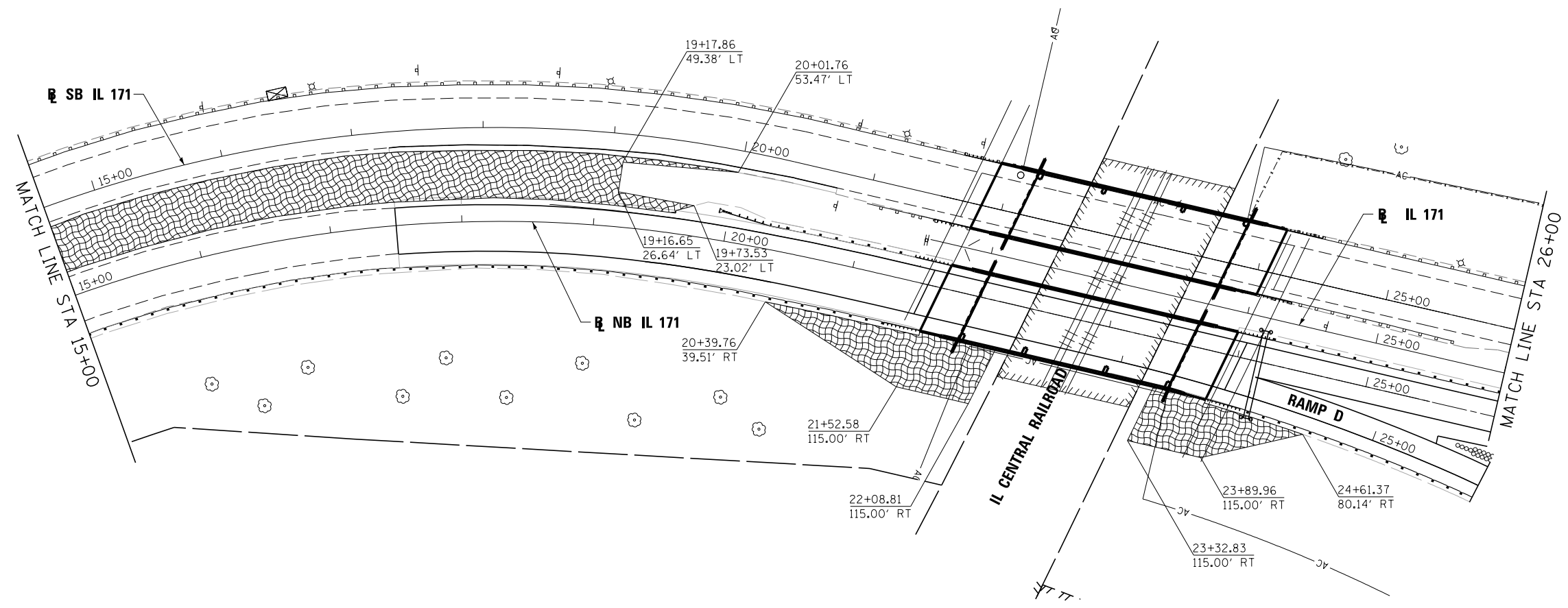


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL 171

SCALE: 1"=50' SHEET 1 OF 8 SHEETS STA. TO STA. 15+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	163
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED) EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B, EROSION CONTROL BLANKET

FILE NAME =	DESIGNED - SEW	REVISED -
... \D160W75-sh1-IL171-1s-NB-02.dgn	DRAWN - TMB	REVISED -
USER NAME = jmajewski	CHECKED - WLS	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

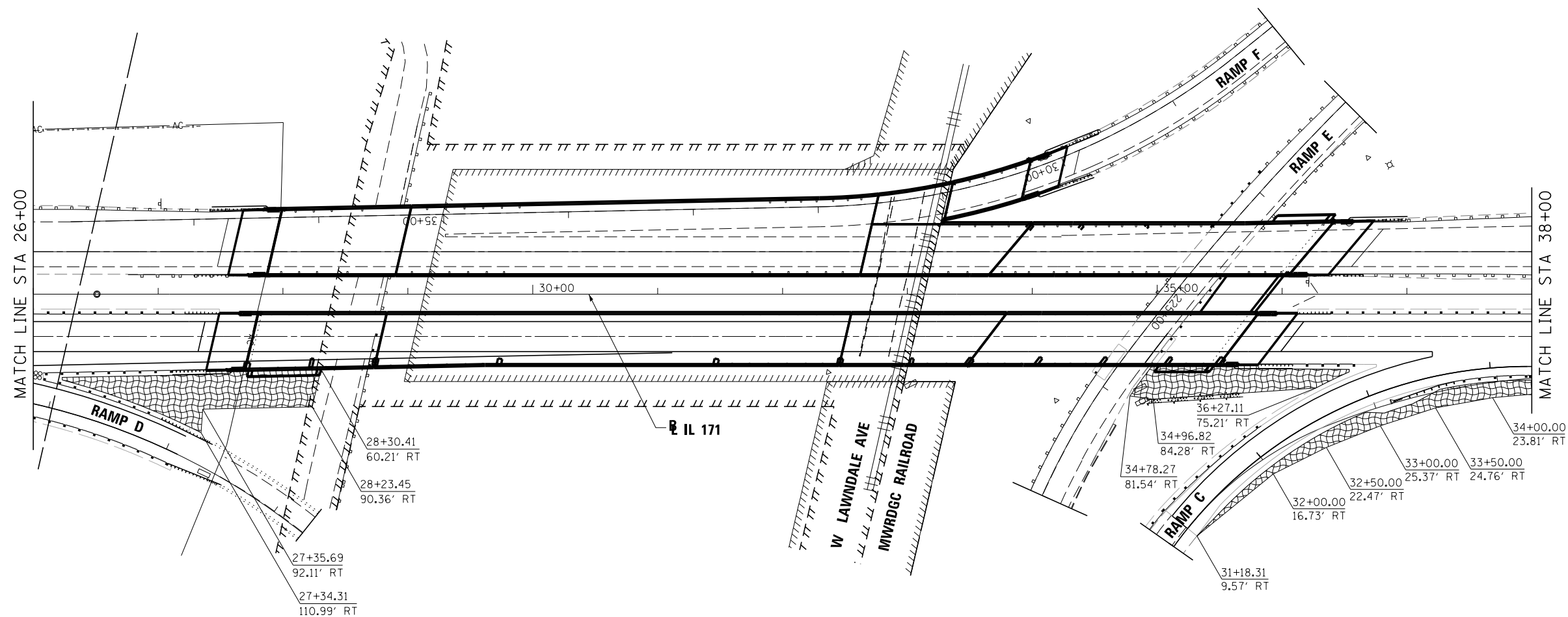


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL 171

SCALE: 1"=50' SHEET 2 OF 8 SHEETS STA. 15+00.00 TO STA. 26+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	164
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED)
EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B,
EROSION CONTROL BLANKET

FILE NAME =	DESIGNED - SEW	REVISED -
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USER NAME = jmajewski	CHECKED - WLS	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

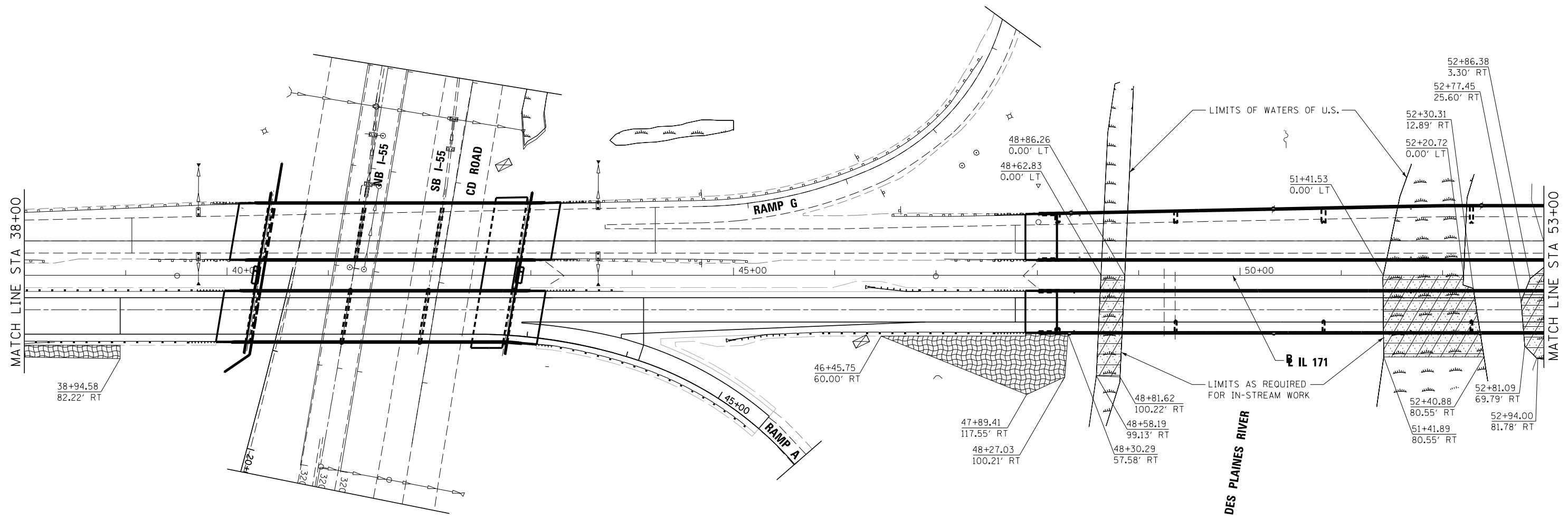


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL 171

SCALE: 1"=50' SHEET 3 OF 8 SHEETS STA. 26+00.00 TO STA. 38+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	165
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED)
EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B,
EROSION CONTROL BLANKET

FILE NAME =	DESIGNED - SEW	REVISED -
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PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

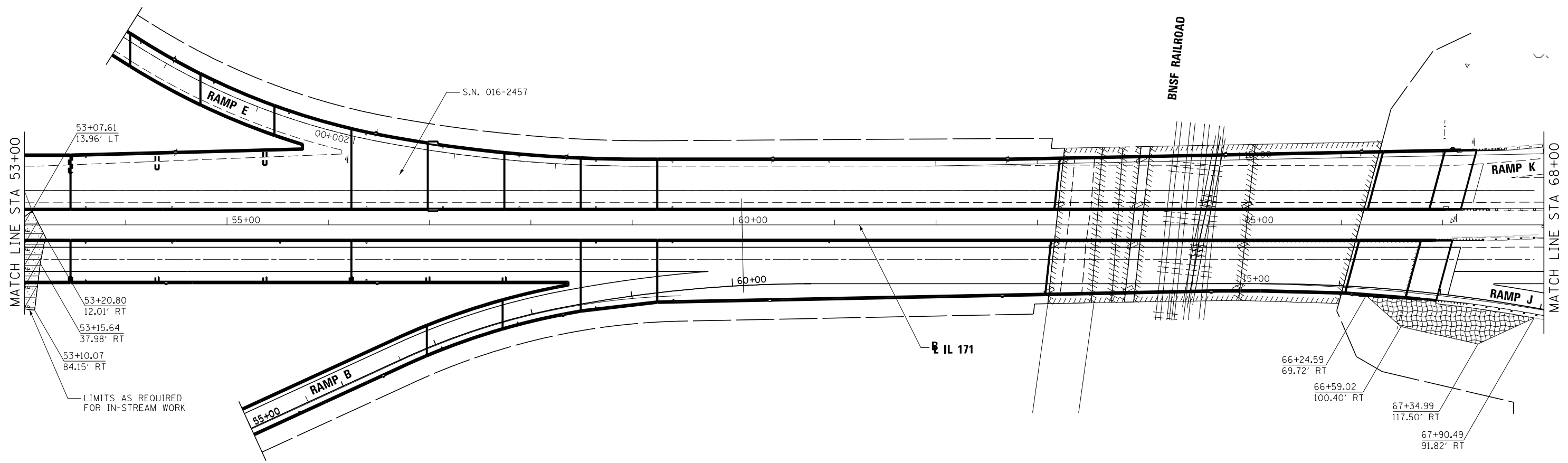


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
IL 171**

SCALE: 1"=50' SHEET 4 OF 8 SHEETS STA. 38+00.00 TO STA. 53+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	166
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERTS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED)
EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B,
EROSION CONTROL BLANKET

FILE NAME =	DESIGNED - SEW	REVISED -
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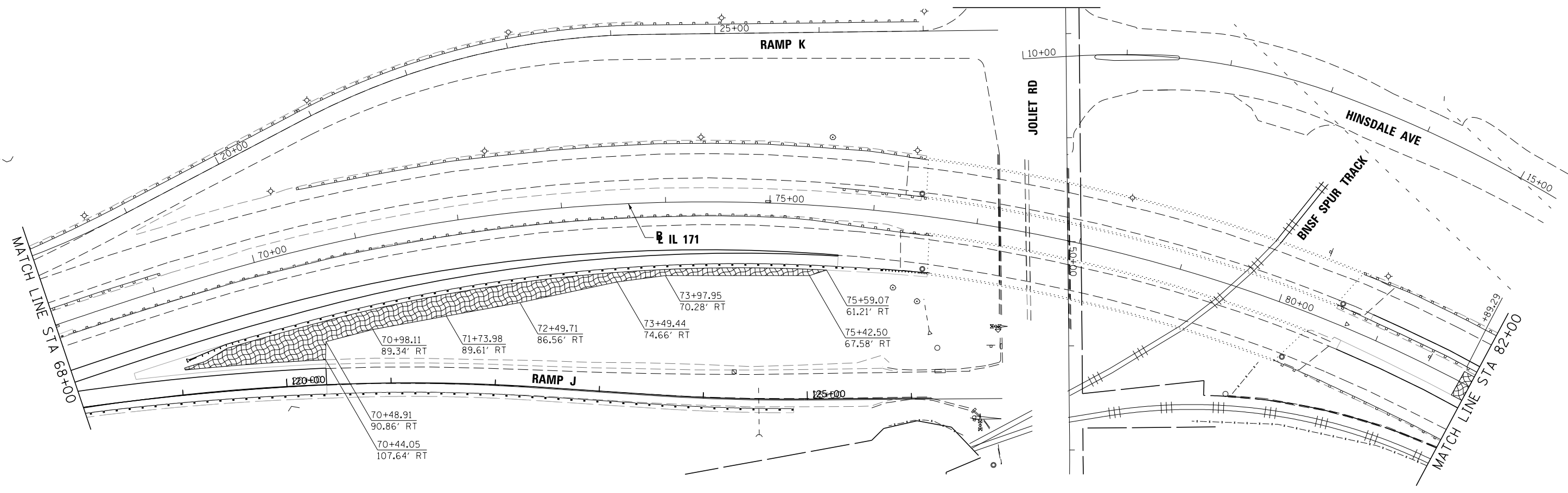
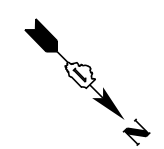


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL 171

SCALE: 1"=50' SHEET 5 OF 8 SHEETS STA. 53+00.00 TO STA. 68+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	167
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED)
EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B,
EROSION CONTROL BLANKET

FILE NAME =	DESIGNED - SEW	REVISED -
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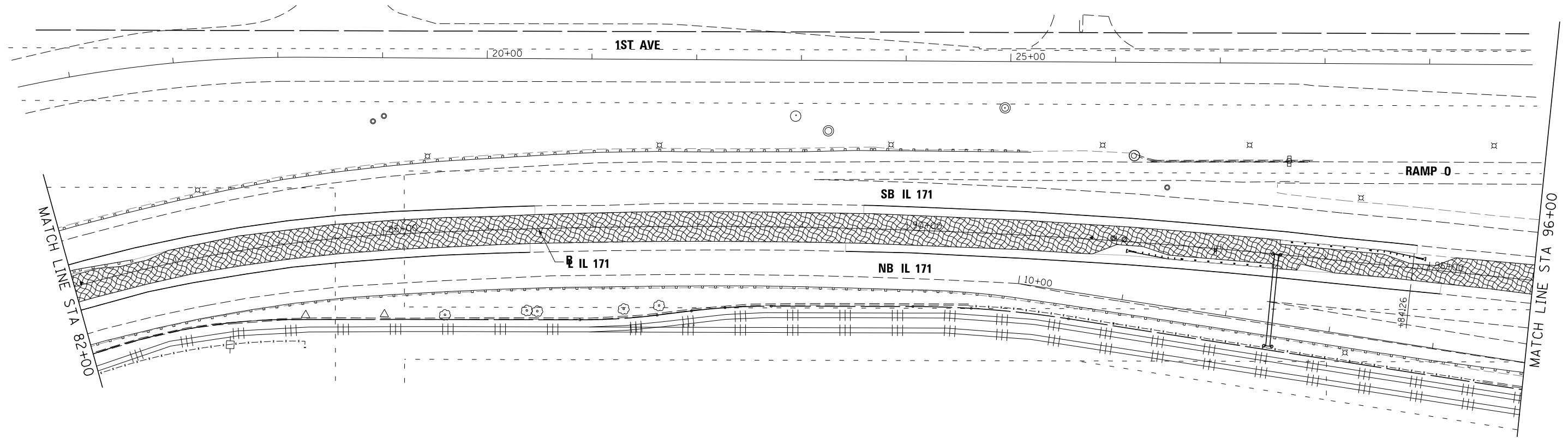
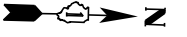


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL 171

SCALE: 1"=50' SHEET 6 OF 8 SHEETS STA. 68+00.00 TO STA. 82+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	168
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W75	



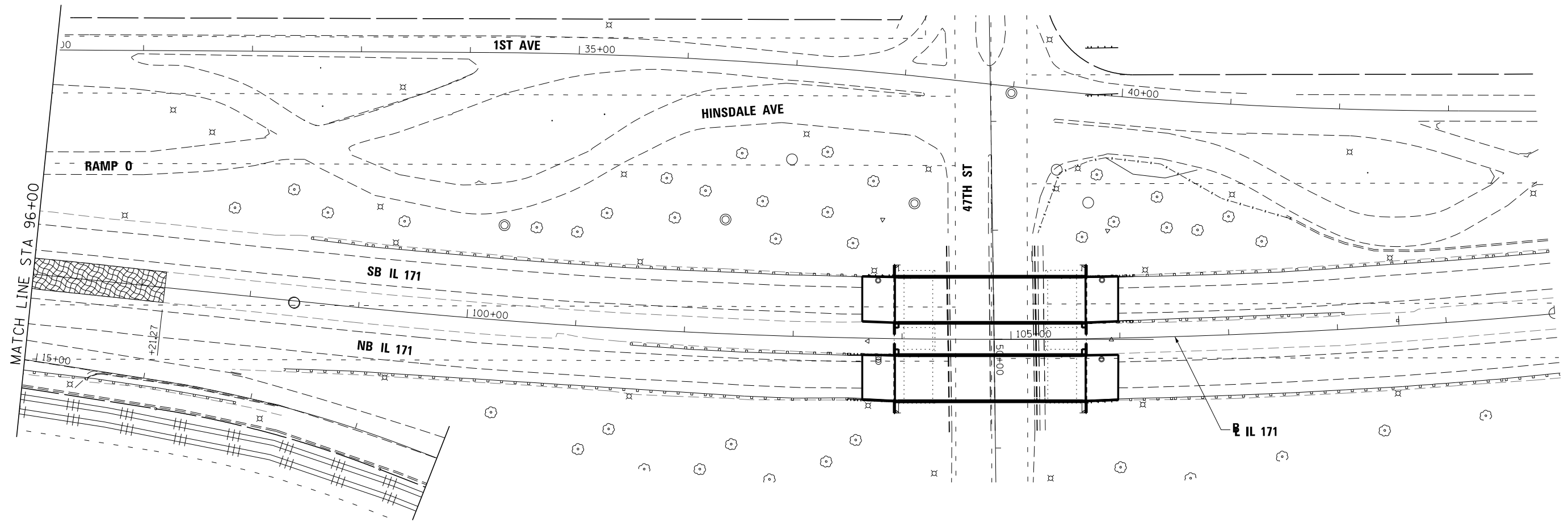
NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERTS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED) EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B, EROSION CONTROL BLANKET

FILE NAME = ...\\D160W75-shr-IL171-1s-NB-07.dgn	DESIGNED - SEW DRAWN - TMB	REVISED - REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN IL 171		F.A.P. RFE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = jmajewski	CHECKED - WLS	REVISED -					372/373	2013-037B-R	COOK	787	169
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -			SCALE: 1"=50' SHEET 7 OF 8 SHEETS STA. 82+00.00 TO STA. 96+00.00				ILLINOIS FED. AID PROJECT		
						CONTRACT NO. 60W75					



NOTES:

1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 (MODIFIED) AND 4B SHALL BE FROM NOVEMBER 15 TO MARCH 15. ALL SEEDING NOT SHOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT HIS/HER EXPENSE.
2. TOPSOIL FURNISH AND PLACE, 6" SHOULD BE PLACED IN LOCATIONS OF THE MEDIAN CROSS OVERS.

LEGEND:

- WETLAND
- 4" TOPSOIL, SEEDING, CLASS 2A
- 6" TOPSOIL, SEEDING, CLASS 4, (MODIFIED)
EROSION CONTROL BLANKET
- 6" TOPSOIL, SEEDING, CLASS 4B,
EROSION CONTROL BLANKET

FILE NAME =	DESIGNED - SEW	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL 171

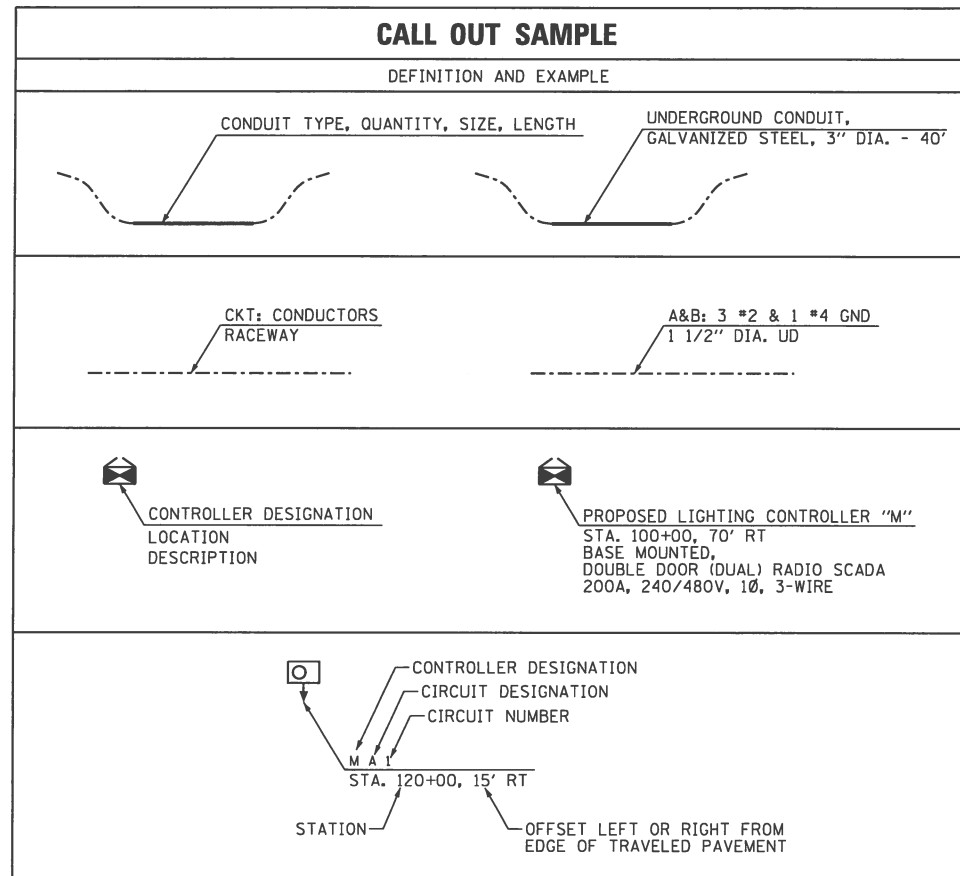
SCALE: 1"=50' SHEET 8 OF 8 SHEETS STA. 96+00.00 TO STA. 110+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	170
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	

LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING HIGH MAST LIGHTING TOWER UNIT TO BE REMOVED, 120 FT. 750W HPS LUMINAIRES, ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES
	EXISTING UNDERPASS LUMINAIRE
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
	EXISTING BASE MOUNTED LIGHTING CONTROLLER
	EXISTING BASE MOUNTED LIGHTING CONTROLLER, TO BE REMOVED
	EXISTING ELECTRIC SERVICE INSTALLATION
	EXISTING JUNCTION BOX
	EXISTING CONDUIT TO BE REMOVED
	EXISTING UNDERGROUND UNIT DUCT TO BE ABANDONED
	EXISTING SIGN LIGHTING TO BE REMOVED
	EXISTING LIGHT POLE
	EXISTING LIGHT POLE, TO BE REMOVED
	EXISTING NAVIGATION LIGHT
	EXISTING NAVIGATION LIGHT, TO BE REMOVED
	PROPOSED HIGH MAST LIGHTING TOWER UNIT, 120 FT. 400W HPS LUMINAIRES, ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES, SHADED BOX INDICATES TOWER HANDHOLE ORIENTATION
	PROPOSED TEMPORARY LIGHTING UNIT, SIZE AND TYPE AS NOTED
	PROPOSED LIGHTING UNIT MOUNTED ON BREAKAWAY TRANSFORMER BASE, 47.5 FT. M.H., 400W HPS TYPE M-C-III COBRAHEAD LUMINAIRE MOUNTED ON 15 FT DAVIT ARM U.N.O.
	PROPOSED STRUCTURE MOUNTED LIGHTING UNIT, 47.5 FT. M.H., 400W HPS TYPE M-C-III COBRAHEAD LUMINAIRE MOUNTED ON 6 FT DAVIT ARM U.N.O.
	PROPOSED NAVIGATION LIGHT, RED 180 DEGREE
	PROPOSED NAVIGATION LIGHT, GREEN 360 DEGREE
	PROPOSED UNDERPASS LUMINAIRE, PIER MOUNT, 100W HPS TYPE M-C-IV
	PROPOSED LIGHTING CONTROLLER, SIZE AND TYPE AS NOTED
	PROPOSED ELECTRIC SERVICE INSTALLATION
	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN EXPOSED OR EMBEDDED CONDUIT, SIZE AND TYPE AS NOTED
	PROPOSED CABLE OR UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED
	ELECTRIC GROUND ROD

INDEX OF SHEETS

1	LEGEND, ABBREVIATIONS, AND INDEX OF DRAWINGS
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18-24	PROPOSED LIGHTING PLAN IL 171
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32	UNDERPASS LIGHTING PLAN RAMP E UNDER IL 171
33	LIGHTING CONTROLLER "M" WIRING DIAGRAM
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35	LIGHTING CONTROLLER "V" WIRING DIAGRAM
36	LIGHTING CONTROLLER "Z" WIRING DIAGRAM
37-38	CONDUIT TRANSITION DETAILS
39-40	NAVIGATION LIGHTING DETAILS
41	HIGH MAST LIGHT TOWER PAD DETAIL - TYPE A
42	HIGH MAST LIGHT TOWER PAD DETAIL - TYPE B



ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSANGER WIRE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SS	STAINLESS STEEL
STA.	STATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFN	LIQUID TIGHT FLEXIBLE NON-METALLIC

IDOT-D1 STANDARDS:

DRAWING NO.	STANDARD NO.	TITLE
43	BE-205A	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
44	BE-205B	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
45	BE-205C	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
46	BE-205D	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
47	BE-220	ELECTRIC SERVICE INSTALLATION, AERIAL, REMOTE DISCONNECT
48	BE-305	LIGHT POLE FOUNDATION, METAL
49	BE-330	LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL, 15" (381 MM) BOLT CIRCLE
50	BE-410	DAVIT LIGHT POLE, 47'-6" (14.478 M) MOUNTING HEIGHT
51	BE-505A	HIGH MAST LIGHT TOWER 120 FT TO 140 FT
52	BE-505B	HIGH MAST LIGHT TOWER 120 FT TO 140 FT
53	BE-505C	HIGH MAST LIGHT TOWER 120 FT TO 140 FT
54	BE-506A	HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL
55	BE-506B	HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL
56	BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
57	BE-702	MISC. ELECTRICAL DETAILS, SHEET A
58	BE-703	MISC. ELECTRICAL DETAILS, SHEET B
59	BE-800	TEMPORARY LIGHT POLE DETAILS
60	BE-801	TEMPORARY AERIAL CABLE INSTALLATION
61	BE-902	PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEGEND, ABBREVIATIONS, AND
INDEX OF DRAWINGS

SCALE: NO SCALE SHEET 1 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	171
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



LIGHTING BILL OF MATERIALS

S.P.	DESCRIPTION	UNIT	TOTAL QUANTITY
	LOCATING UNDERGROUND CABLE	FOOT	25000
*	ELECTRIC SERVICE INSTALLATION	EACH	2
*	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
*	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1807
*	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	145
*	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	1296
*	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	170
	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	3331
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	2
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	17
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	17
*	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	30082
*	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1493
*	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	507
*	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	200
*	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	7620
*	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	21060
*	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	903
*	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	39
*	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT	EACH	206
*	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	2
	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 6 FT. DAVIT ARM	EACH	18
	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	21
*	LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12	EACH	39
	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	21
	LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	641.5
	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	21
	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	6
	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	49
	REMOVAL OF POLE FOUNDATION	EACH	22
	REMOVAL OF NAVIGATION OBSTRUCTION WARNING LIGHTING SYSTEM	L SUM	1
	REMOVAL OF LIGHTING CONTROLLER	EACH	2
	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10,556
*	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	39
*	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	13
*	LIGHT TOWER, SERVICE PAD	EACH	16
*	LIGHT TOWER, SERVICE PAD, SPECIAL	EACH	23
*	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA	EACH	2
*	NAVIGATION LIGHTING SYSTEM	L SUM	1
*	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	41
*	REMOVAL OF TOWER FOUNDATION	EACH	45

GENERAL NOTES

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST VERSION), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- CONTRACTOR SHALL INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT STRUCTURE JOINTS AS NEEDED PER IDOT-D1 STANDARD DRAWING NO. BE-703 AT NO ADDITIONAL COST.
- CONTRACTOR SHALL INSTALL LIGHT POLES AND HIGH MAST LIGHT TOWERS AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE PAY ITEM REQUIRING THIS WORK.
- THE CONTRACTOR SHALL CALL NASER GHOLEH AT (708) 524-2145 TO REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK, LIGHTING OR OTHER BEGINS.
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT APPROVAL OF THE ENGINEER. ALL EXISTING LIGHT POLES AND HIGH MAST LIGHT TOWERS SHALL OPERATE FROM DUSK TO DAWN DAILY FOR THE DURATION OF THIS PROJECT TO MAINTAIN ILLUMINATION OF TRAVELED ROADWAYS. SPECIFIC LIGHT POLES AND HIGH MAST LIGHT TOWERS SHALL BE REMOVED AND REPLACED PER THE PLANS BY THE CONTRACTOR DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- THE SUGGESTED CONSTRUCTION STAGING FOR LIGHTING WORK IS AS FOLLOWS:
 - LOCATE EXISTING UNDERGROUND LIGHTING CABLES AT THE I-55 INTERCHANGE
 - INSTALL NEW LIGHTING CONTROLLER "M", CONTROLLER "N", AND ELECTRIC SERVICES
 - REMOVE AND REPLACE NORTHBOUND LIGHTING
 - REMOVE AND REPLACE NAVIGATION LIGHTING
 - INSTALL CONDUIT SYSTEMS AND UNDERPASS LIGHTING FOR THE IL-171 BRIDGES OVER RAMP E
 - INSTALL PROPOSED HIGH MAST TOWER FOUNDATIONS, WORK PADS, AND TOWERS
 - CUTOVER LIGHTING CIRCUITS DURING DAY TO AVOID OUTAGES AT NIGHT
 - REMOVE EXISTING HIGH MAST LIGHTING AS PROPOSED HIGH MAST LIGHTING BECOMES OPERATIONAL
 - REMOVE EXISTING LIGHTING CONTROLLER "M", CONTROLLER "N", AND ELECTRIC SERVICES
- CONTRACTOR SHALL COORDINATE ELECTRIC SERVICE REPLACEMENTS FOR CONTROLLERS "M" AND "N" WITH COMED. CONTACT DARRYL BELL AT 630.985.0410. CONTROLLER "M" ACCOUNT NUMBER IS 0534411008. CONTROLLER "N" ACCOUNT NUMBER IS 0885081050.

UNIT DUCT DESIGNATIONS

THE CONTRACTOR SHALL INSTALL UNIT DUCT ACCORDING TO THE FOLLOWING TABLE:

LOCATION #	CONTROLLER	UNIT DUCT
L0173	M	UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
L0175	N	UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
L0171	V	UNIT DUCT, 600V, 3-1/C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE
L0177	Z	UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE

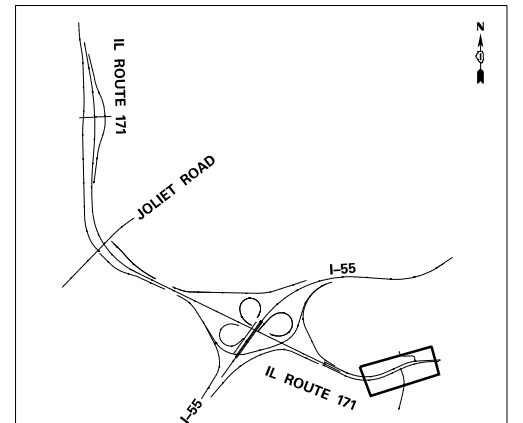
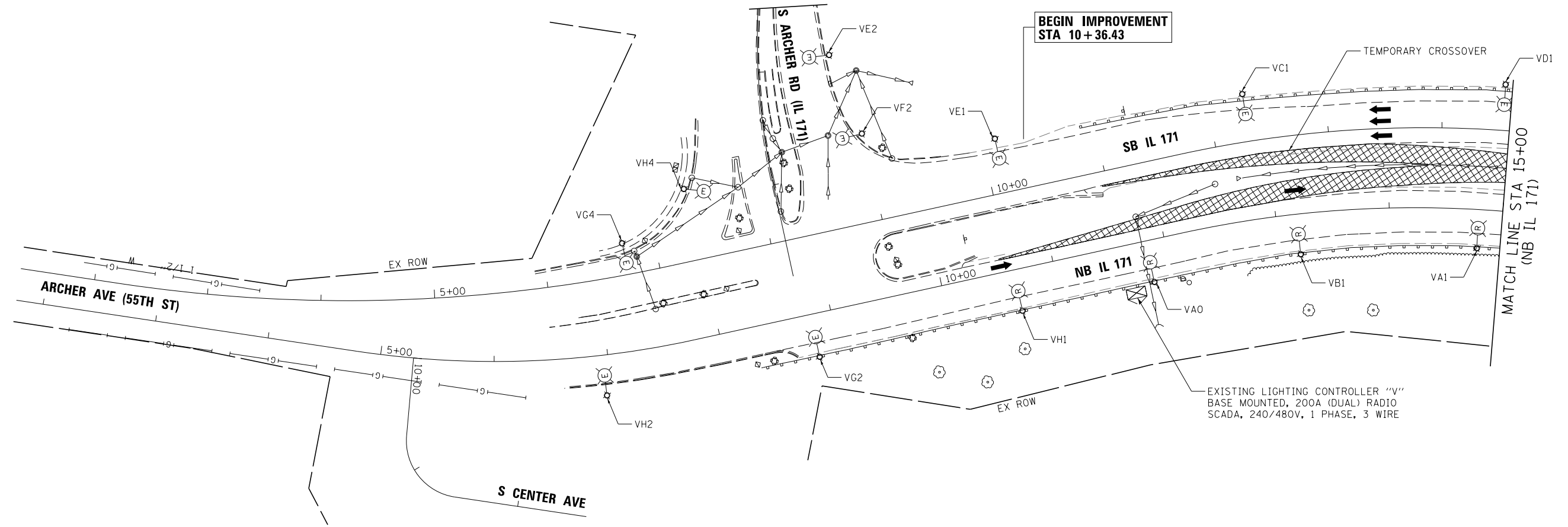
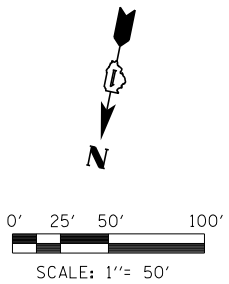
FILE NAME =	DESIGNED - GRR	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES AND GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \D160W75-sh-t-light-S00-GenNotes.dgn	DRAWN - JLW	REVISED -				372/373	2013-037B-R	COOK	787	172
USER NAME = jworthington	CHECKED - GHT	REVISED -				CONTRACT NO. 60W75				
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -	SCALE: NO SCALE SHEET 2 OF 61 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT					

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER FOUNDATION LOCATION			HIGH MAST TOWER HEIGHT (FT)	LUMINAIRE AIMING	SERVICE PAD TYPE (SEE NOTE 7)	LUMINAIRE AIMING
	STATION	OFFSET (NOTE 4)	BASELINE				
6 MAB3	351+34	38' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B
4 MAB4	357+70	43' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B
4 MAB5	363+87	42' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B
8 MEF1	35+77	35' RT	RAMP B	15.0	A	PERPENDICULAR TO I-55	A
8 MEF2	336+69	40' RT	I-55	17.5	A	PERPENDICULAR TO I-55	A
6 MEF3	343+89	31' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B
6 MIJ1	41+83	51' LT	RAMP B	16.5	A	PERPENDICULAR TO RAMP B	A
8 MIJ2	53+47	44' LT	RAMP A	16.5	A	PERPENDICULAR TO I-55	A
6 MIJ3	48+75	70' RT	RAMP A	15.0	A	PERPENDICULAR TO RAMP A	A
4 MIJ4	44+46	40' RT	RAMP A	15.0	B	PERPENDICULAR TO IL-171	B
4 MKL1	24+13	48' RT	RAMP G	16.5	B	PERPENDICULAR TO IL-171	B
6 MKL2	315+08	49' LT	RAMP G	25.0	A	PERPENDICULAR TO I-55	A
4 MKL3	20+20	65' RT	RAMP G	17.5	A	PERPENDICULAR TO RAMP G	A
6 MKL4	212+06	32' RT	RAMP E	17.5	B	7 DEGREES LEFT OF PERP. TO RAMP E	B
6 MMN1	114+61	50' LT	RAMP H	16.5	B	PERPENDICULAR TO I-55	B
6 MMN2	119+35	46' RT	RAMP H	15.0	A	PERPENDICULAR TO I-55	A
6 NAB3	348+71	50' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B
4 NAB4	353+79	47' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B
4 NAB5	358+74	50' RT	I-55	15.0	B	PERPENDICULAR TO I-55	B
4 NAB6	363+89	49' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B
6 NCD1	38+66	76' RT	RAMP D	16.5	A	PERPENDICULAR TO RAMP E	A
6 NCD2	329+62	46' RT	I-55	16.5	A	PERPENDICULAR TO I-55	A
4 NCD3	240+75	49' RT	RAMP E	16.5	A	PERPENDICULAR TO I-55	A
6 NCD4	341+99	50' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B
6 NEF1	26+62	50' RT	RAMP C	16.5	A	13 DEGREES LEFT OF PERP. TO RAMP C	A
6 NEF2	30+69	66' RT	RAMP C	17.5	B	9 DEGREES LEFT OF PERP. TO RAMP C	B
6 NEF3	22+74	50' RT	RAMP C	17.5	A	PERPENDICULAR TO I-55	A
4 NEF4	38+58	41' RT	IL-171	15.0	B	PERPENDICULAR TO IL-171	B
4 NGH1	38+66	57' LT	IL-171	17.5	B	PERPENDICULAR TO IL-171	B
4 NGH4	315+27	51' RT	I-55	16.5	B	PERPENDICULAR TO I-55	B
6 NGH5	217+22	61' RT	RAMP E	17.5	B	PERPENDICULAR TO RAMP E	B
6 NIJ1	18+70	50' RT	RAMP F	15.0	A	PERPENDICULAR TO I-55	A
4 NIJ2	13+49	44' RT	RAMP F	15.5	A	PERPENDICULAR TO I-55	A
6 NKL1	33+46	65' LT	RAMP D	17.5	B	PERPENDICULAR TO RAMP D	B
4 NKL2	33+42	30' RT	IL-171	17.5	A	PERPENDICULAR TO IL-171	A
6 NKL6	28+01	29' RT	RAMP D	17.5	B	31 DEGREES LEFT OF PERP. TO RAMP D	B
4 NMN1	30+51	30' RT	RAMP F	20.5	B	PERPENDICULAR TO IL-171	B
6 NMN2	26+43	45' RT	RAMP F	15.0	B	PERPENDICULAR TO RAMP F	B
4 NMN5	36+05	49' RT	RAMP F	17.5	B	PERPENDICULAR TO IL-171	B

NOTES:

1. SEE LEGEND AND ABBREVIATIONS DRAWING FOR SYMBOLS AND CALLOUTS.
2. SEE HIGH MAST DETAIL DRAWINGS FOR LIGHT TOWER AND FOUNDATION DETAILS.
3. THE SCHEDULE ON THIS DRAWING REPLACES THE "SHAFT LENGTH TABLE" ON LIGHT TOWER FOUNDATION DETAIL.
4. OFFSET SHOWN IS TO CENTERLINE OF DRILLED SHAFT.
5. COORDINATE ALL WORK WITH CIVIL WORK, STRUCTURAL WORK, AND SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS.
6. THE CONTRACTOR SHALL VERIFY THE EXISTING AND PROPOSED GROUND ELEVATIONS AND SLOPES PRIOR TO BEGINNING ANY FOUNDATION DRILLING WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FOUNDATION AND WORK PAD LOCATIONS OR TYPES. THE FOUNDATIONS MUST BE DRILLED TO THE DESIGN DEPTH. MODIFICATIONS TO THE WORK PAD TYPES SHALL BE APPROVED BY THE ENGINEER.
7. SERVICE PAD TYPE A IS FLAT. SERVICE PAD TYPE B INCLUDES LOW RETAINING WALL DUE TO SLOPE.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-exlight-NB-01.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

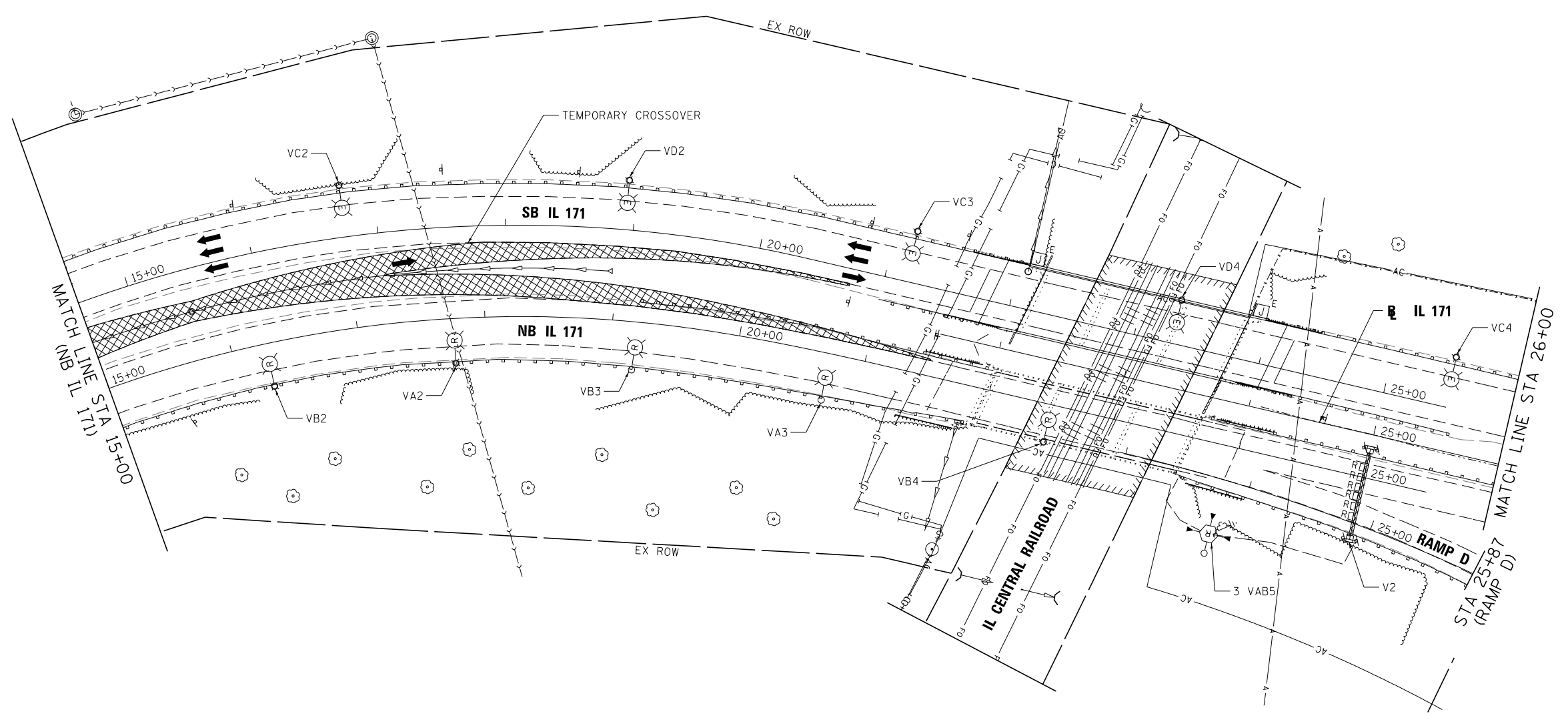
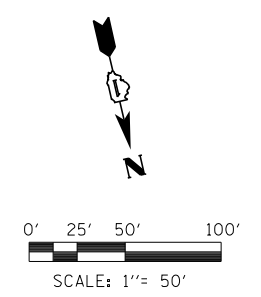


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

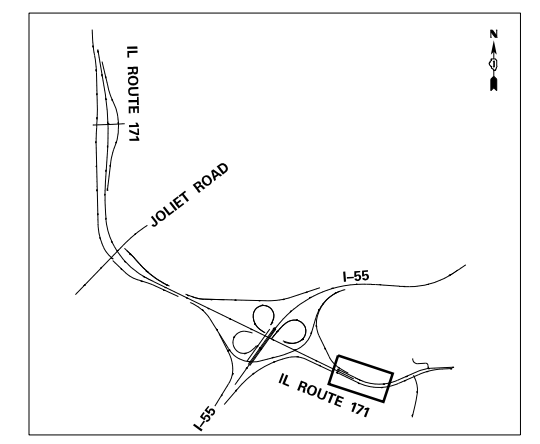
**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 4 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	174
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTE:
 1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.



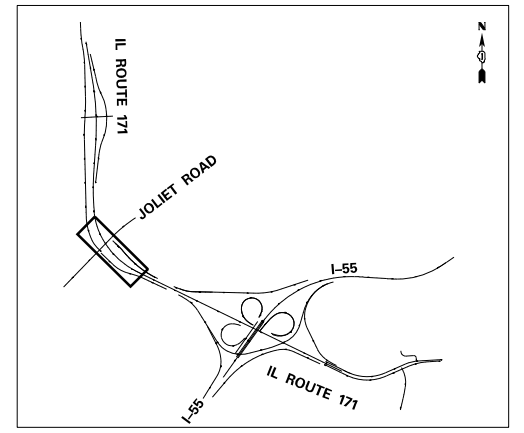
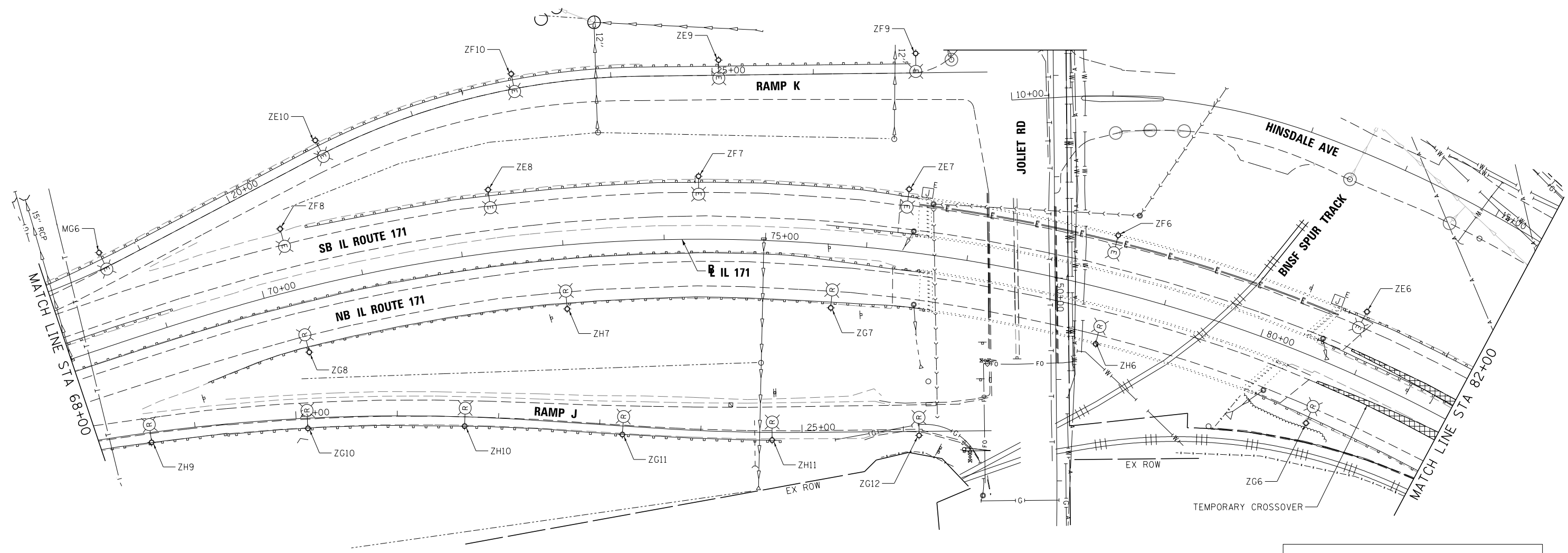
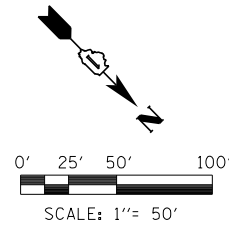
FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-ex-light-NB-02.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
 TEMPORARY LIGHTING PLAN**
 SCALE: 1"=50' SHEET 5 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	175
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sht-IL171-exlight-NB-06.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



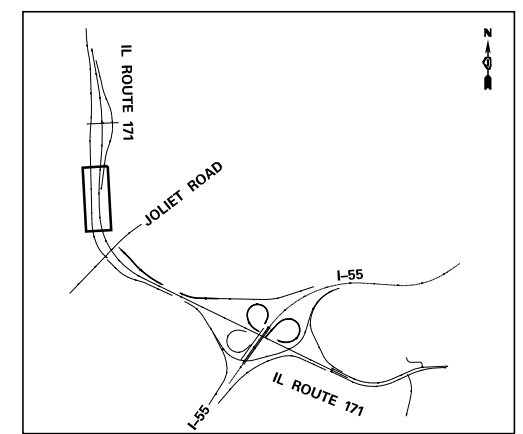
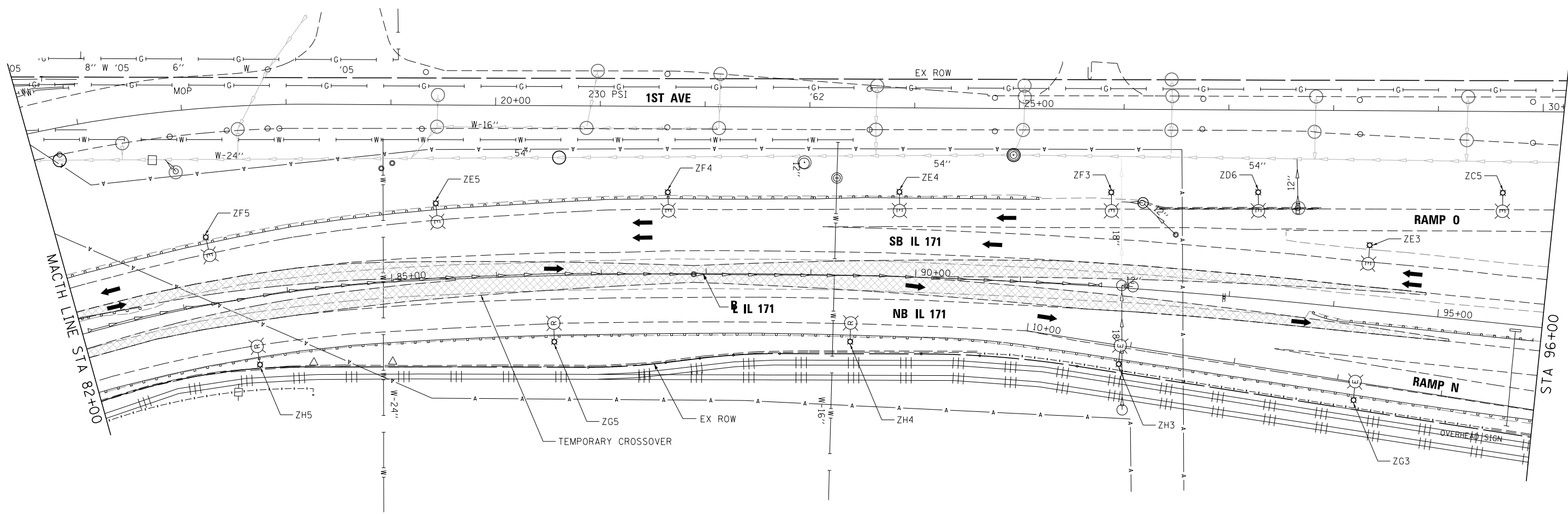
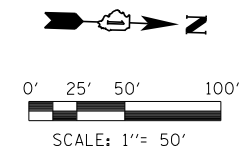
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 9 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	179
				CONTRACT NO. 60W75

ILLINOIS FED. AID PROJECT



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sht-IL171-exlight-NB-07.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

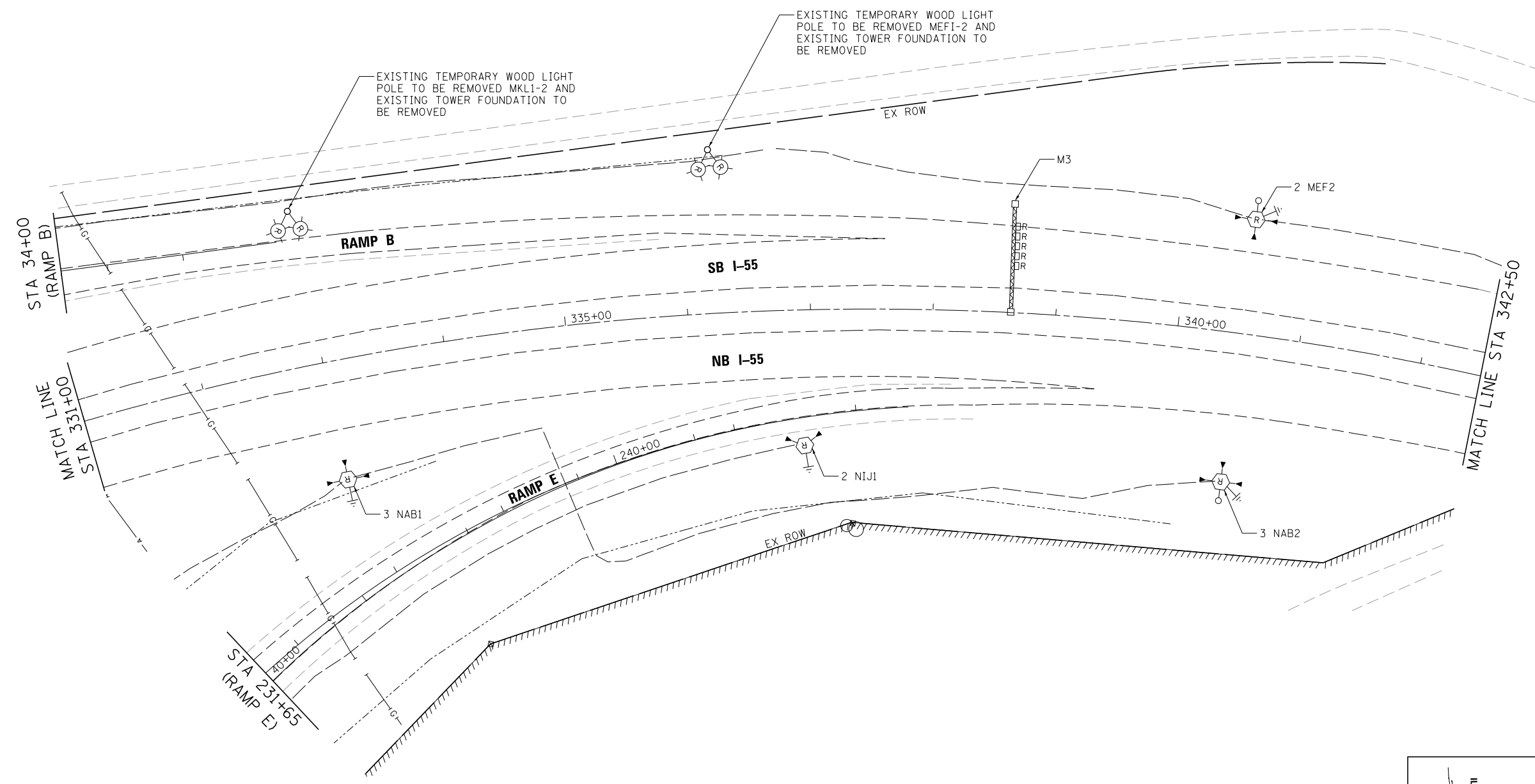
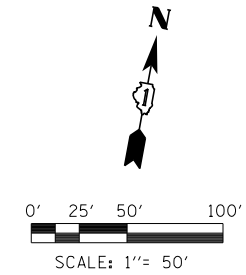


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

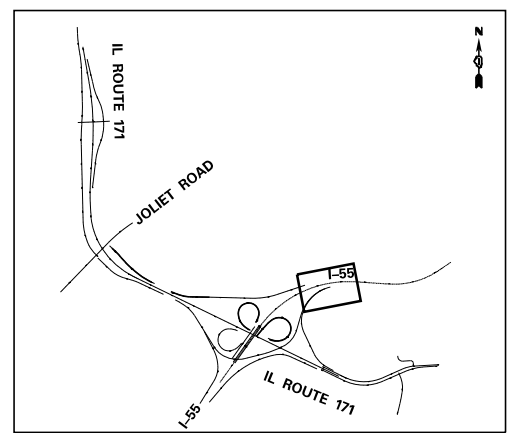
SCALE: 1"=50' SHEET 10 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	180
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.
2. REMOVAL OF AERIAL CABLE SHALL BE INCLUDED IN THE COST OF THE TEMPORARY LIGHTING UNIT.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sh1-155-exlight-NB-12.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

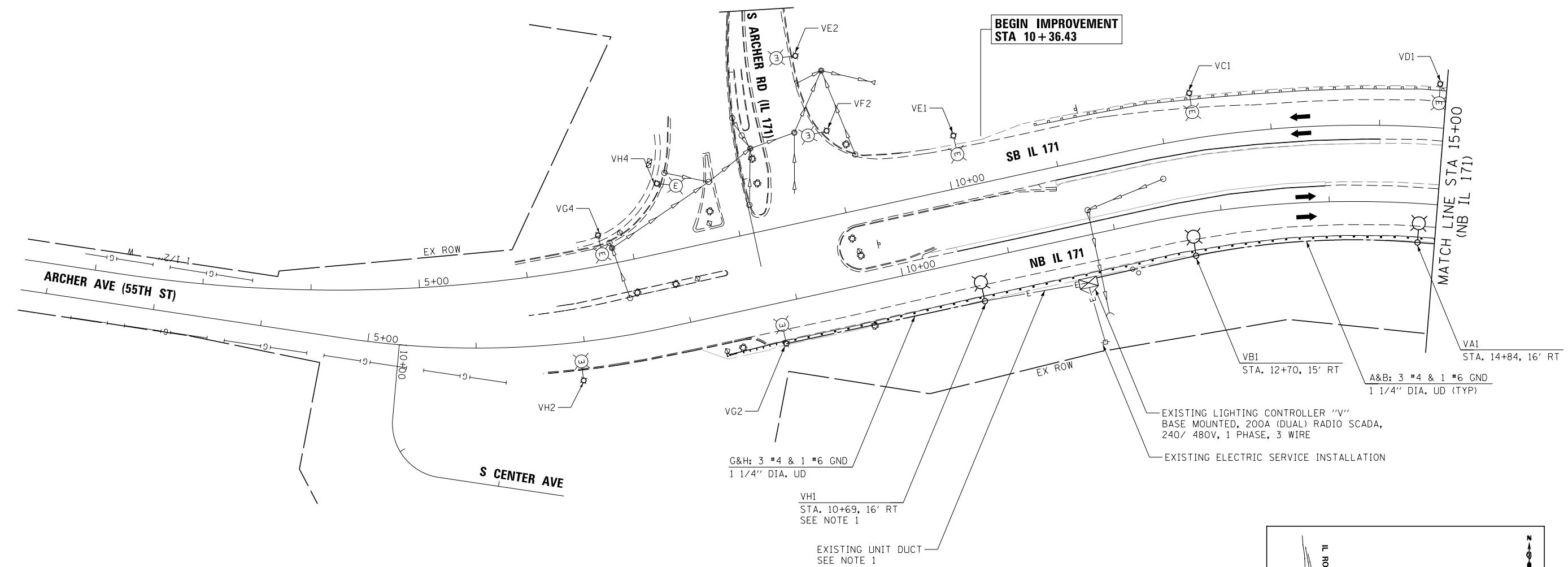
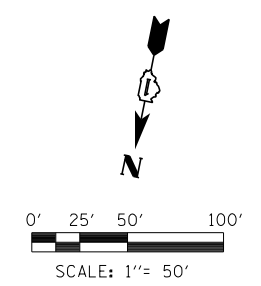


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

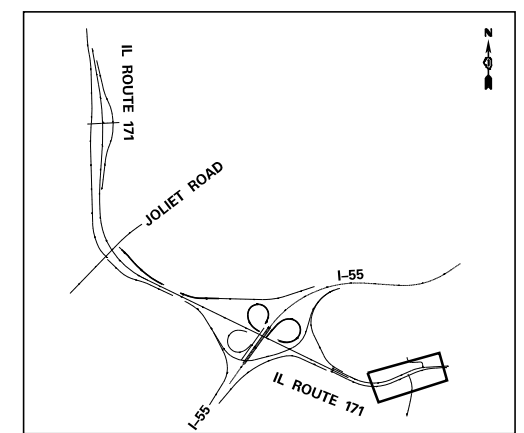
**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 15 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	185
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



NOTE:
 1. CONTRACTOR SHALL INTERCEPT THE EXISTING UNIT DUCT WITH CIRCUITS GH FROM CONTROLLER "V" AND CONNECT TO THE PROPOSED VH1 LIGHT POLE. THE EXISTING UNIT DUCT TO THE EXISTING VH1 POLE WAS RECENTLY INSTALLED IN THE SOUTHBOUND CONTRACT 60J16.



FILE NAME =	DESIGNED - GRR	REVISED -
... \D160W75-sh1-IL171-pr1ight-NB-01.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

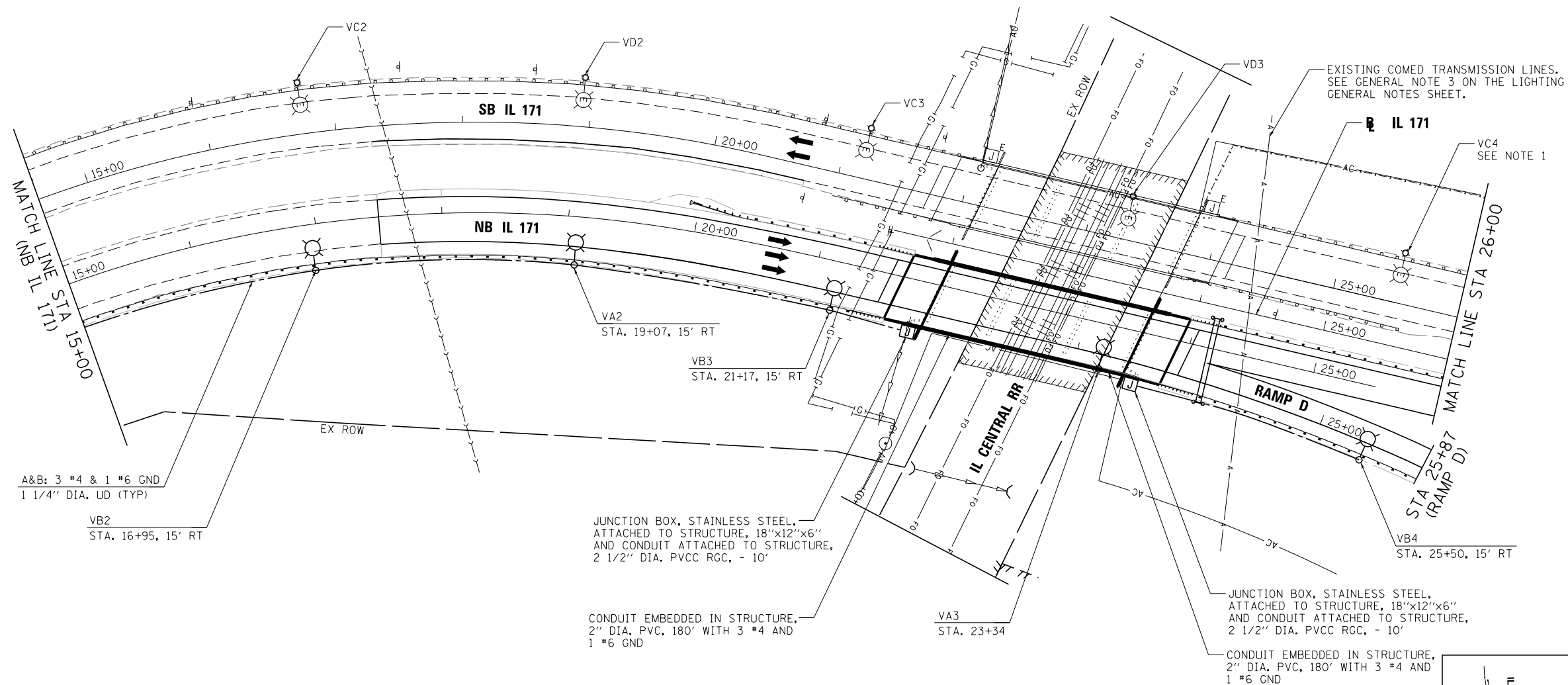
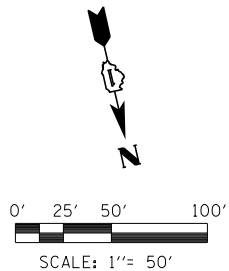


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

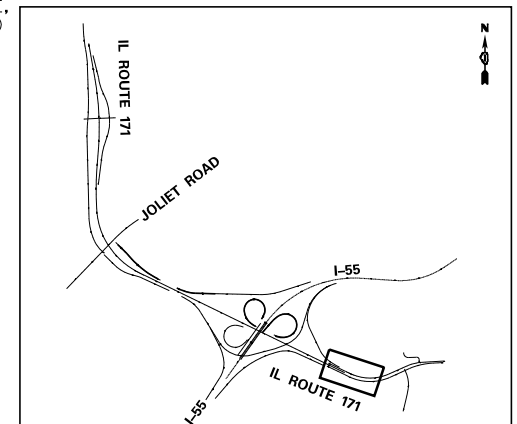
PROPOSED LIGHTING PLAN
 IL 171

SCALE: 1"=50' SHEET 18 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	188
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



NOTE:
 1. AFTER PROPOSED CIRCUITS MN FROM CONTROLLER "N" TO THE PROPOSED HIGH MAST TOWER 4 NMNS AND EXISTING NAVIGATION LIGHTING WEST OF THIS POLE ARE INSTALLED, CONTRACTOR SHALL DISCONNECT EXISTING CONTROLLER "V" CIRCUITS CD FEED TO THE EXISTING HIGH MAST TOWER 3 VCD5 AND NAVIGATION LIGHTS AT THIS POLE. DISCONNECTION SHALL BE PERFORMED PRIOR TO CONNECTING THE EXISTING NAVIGATION LIGHTING TO CONTROLLER "N" CIRCUITS MN.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-pr-light-NB-02.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

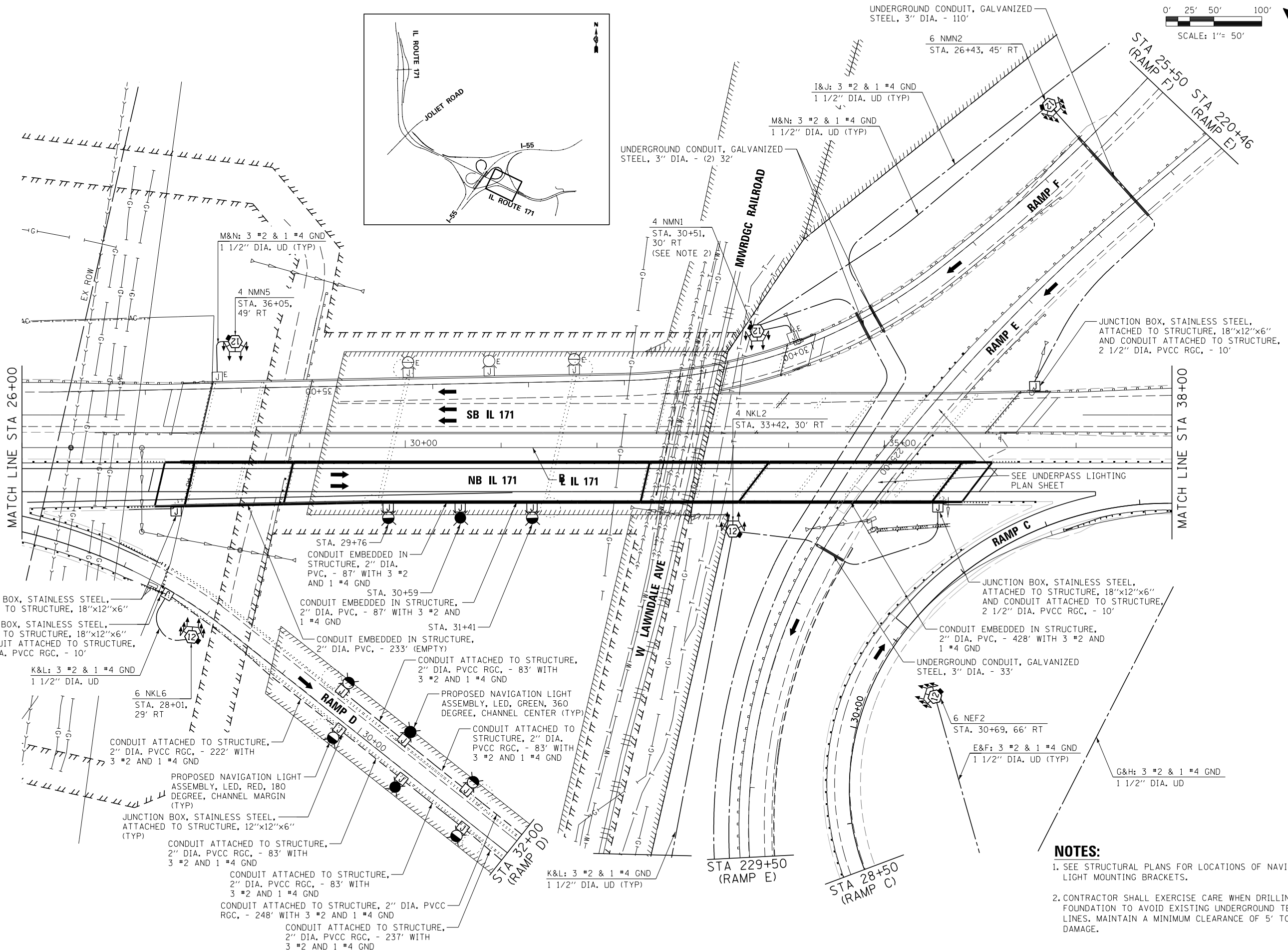
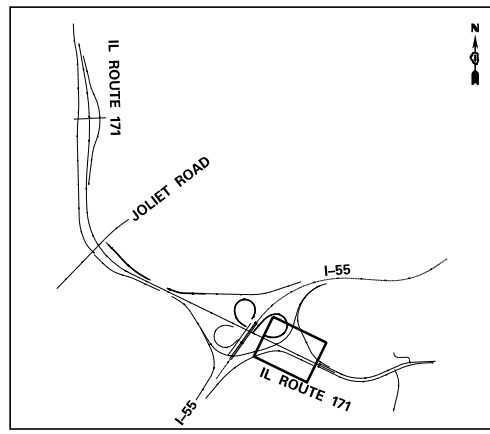
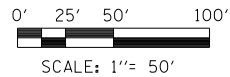


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
IL 171**

SCALE: 1"=50' SHEET 19 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	189
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



- NOTES:**
- SEE STRUCTURAL PLANS FOR LOCATIONS OF NAVIGATION LIGHT MOUNTING BRACKETS.
 - CONTRACTOR SHALL EXERCISE CARE WHEN DRILLING FOUNDATION TO AVOID EXISTING UNDERGROUND TELEPHONE LINES. MAINTAIN A MINIMUM CLEARANCE OF 5' TO AVOID DAMAGE.

FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-pr-light-NB-03.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



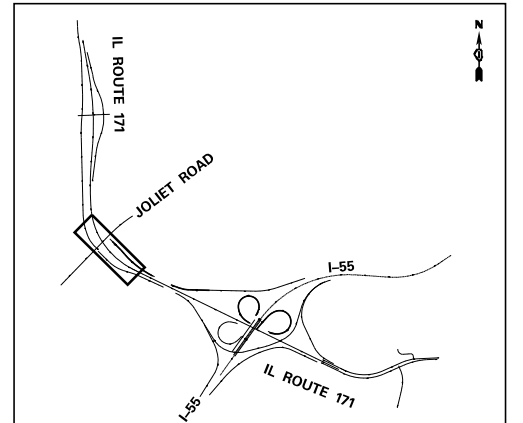
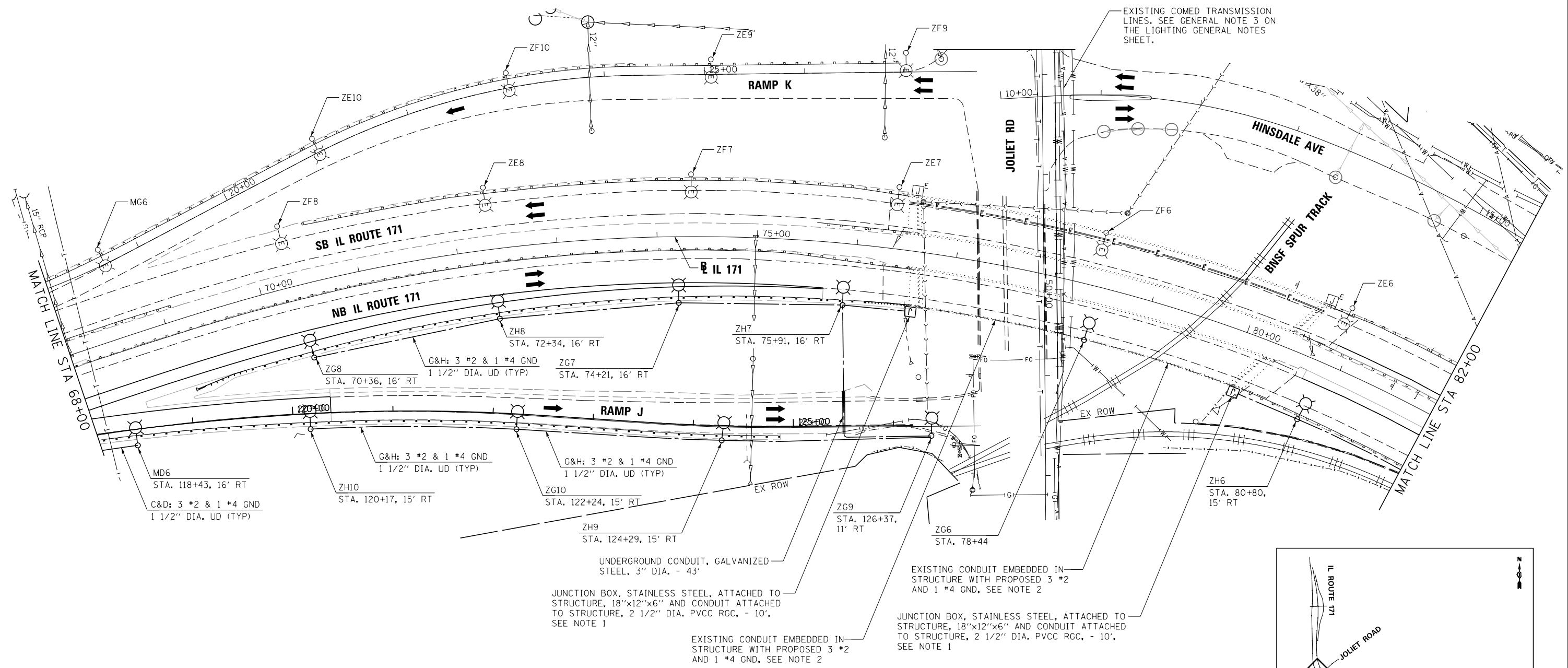
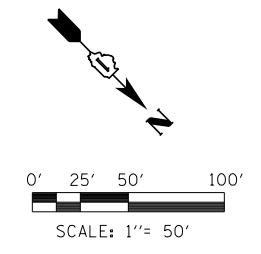
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN IL 171	
SCALE: 1"=50'	SHEET 20 OF 61 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	190
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	

NOTES:

- CONTRACTOR SHALL REMOVE THE EXISTING "LB" FITTING, CONDUIT NIPPLE, AND CONDUIT RUNNING DOWN TO THE GROUND. THE COSTS FOR THIS REMOVAL WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX AND 2 1/2" DIA. PVCC RGC DOWN TO THE GROUND.
- CONTRACTOR SHALL REMOVE THE EXISTING CABLES FROM THE CONDUIT PRIOR TO INSTALLATION OF THE PROPOSED CABLES. REMOVAL OF THE EXISTING CABLES SHALL BE PAID FOR UNDER PAY ITEM "REMOVE ELECTRIC CABLE FROM CONDUIT" FOR EACH CABLE REMOVED.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-pr1ight-NB-06.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

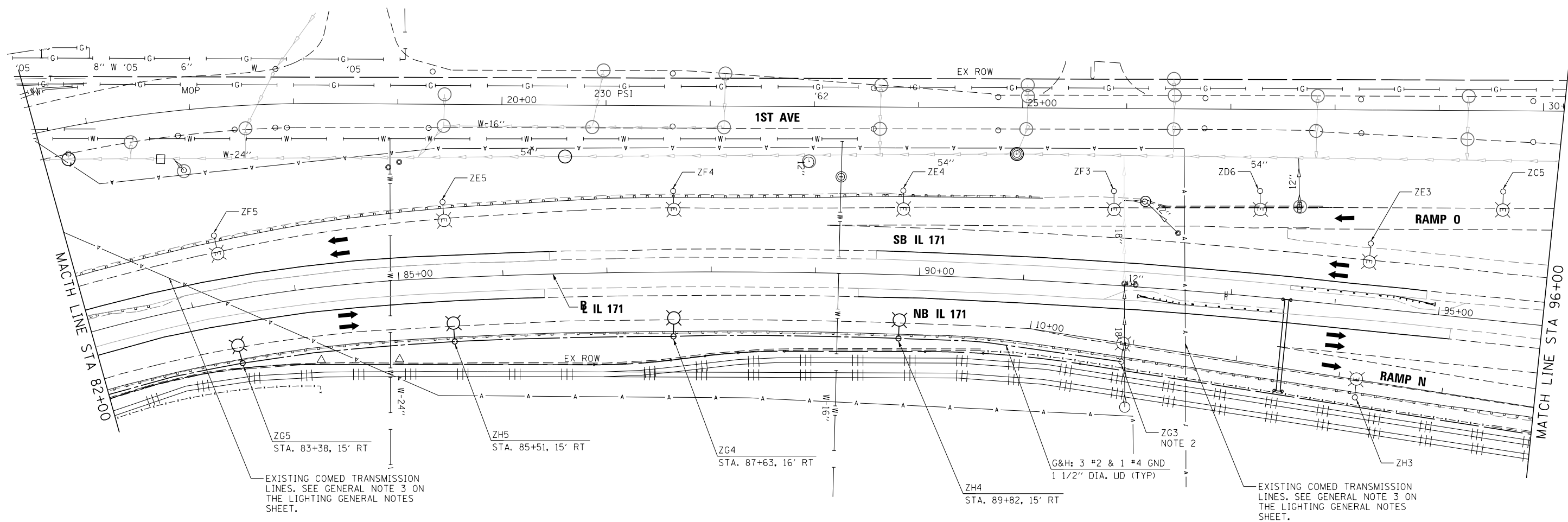
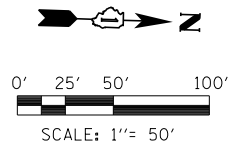


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
IL 171**

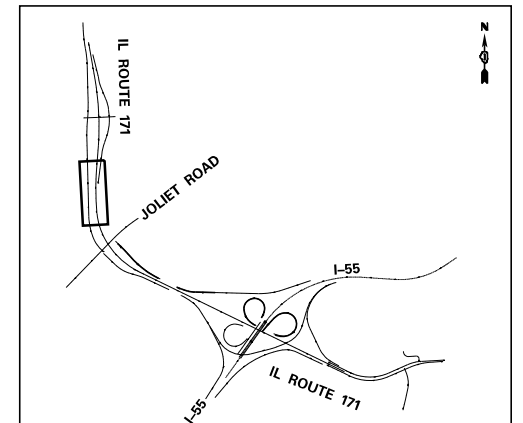
SCALE: 1"=50' SHEET 23 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	193
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. CONTROLLER "Z" IS LOCATED IN NORTHWEST QUADRANT OF 47TH STREET INTERCHANGE.
2. CONTRACTOR SHALL INSTALL UNIT DUCT TO THIS EXISTING LIGHT POLE THAT WAS INSTALLED UNDER CONTRACT 60J16. DISCONNECT EXISTING UNIT DUCT RUNNING SOUTH PRIOR TO CONNECTING PROPOSED UNIT DUCT. ANY CABLE SPLICES AND FUSES REQUIRED SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNIT DUCT.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shd-IL171-pr-light-NB-07.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

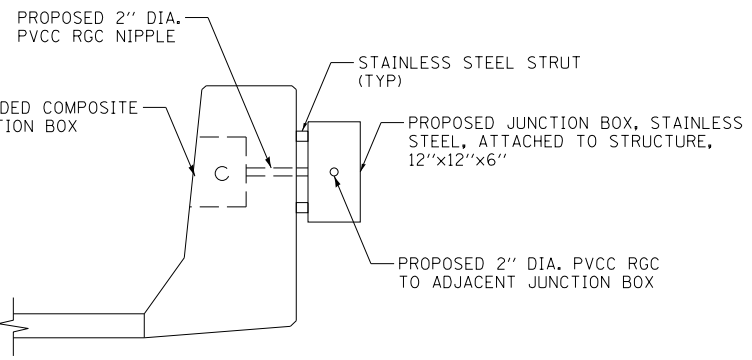
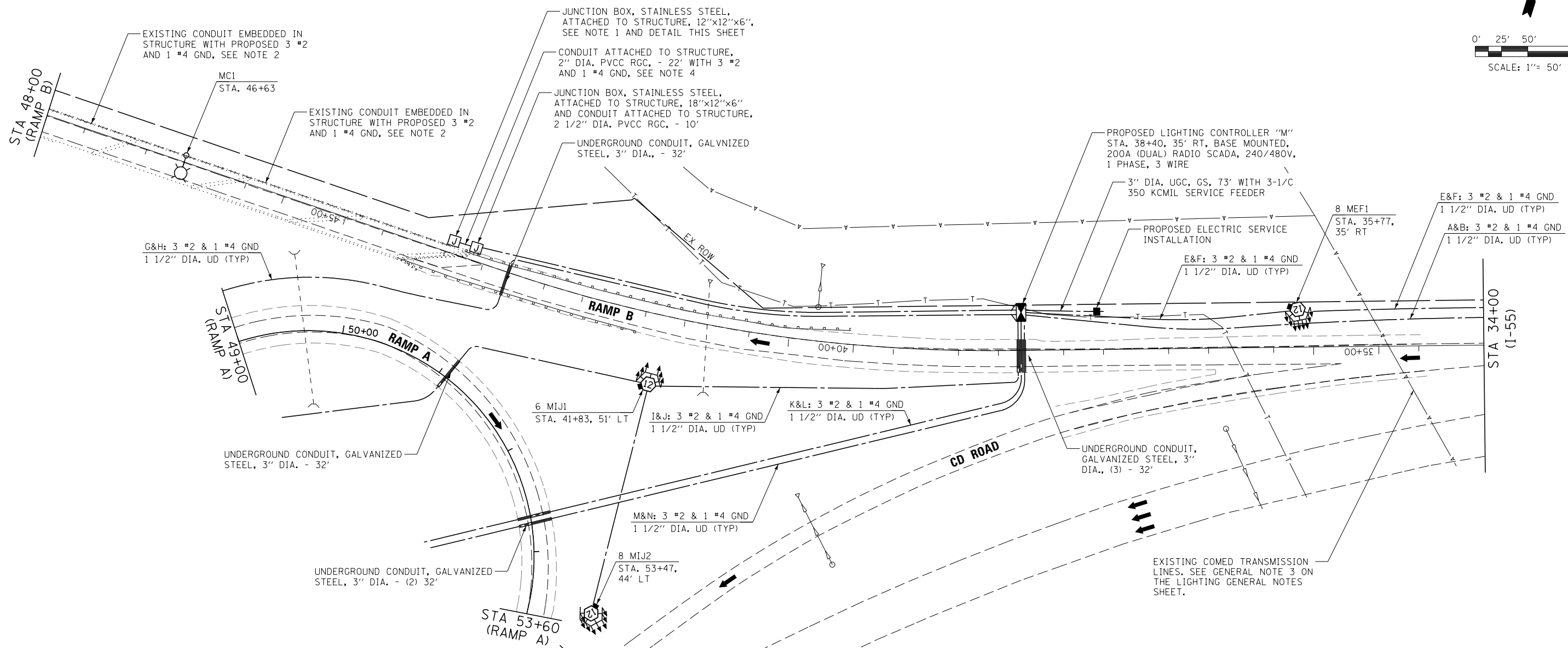
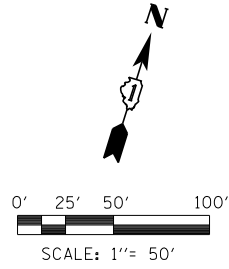


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
IL 171**

SCALE: 1"=50' SHEET 24 OF 61 SHEETS STA. TO STA.

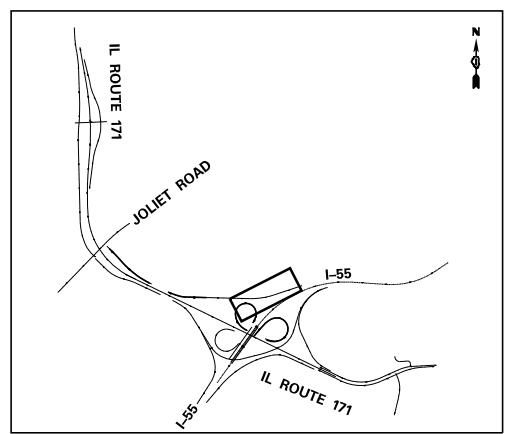
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	194
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



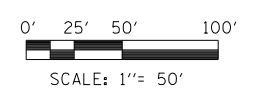
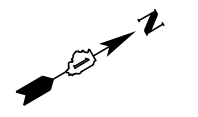
TRANSITION TO EXISTING EMBEDDED JUNCTION BOX DETAIL

NOTES:

1. CONTRACTOR SHALL REMOVE THE EXISTING "LB" FITTING, CONDUIT NIPPLE, AND CONDUIT RUNNING DOWN TO THE GROUND. THE COSTS FOR THIS REMOVAL WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX.
2. CONTRACTOR SHALL REMOVE THE EXISTING CABLES FROM THE CONDUIT PRIOR TO INSTALLATION OF THE PROPOSED CABLES. REMOVAL OF THE EXISTING CABLES SHALL BE PAID FOR UNDER PAY ITEM "REMOVE ELECTRIC CABLE FROM CONDUIT" FOR EACH CABLE REMOVED.
3. ROW FENCE REMOVAL AND REPAIR AT THE PROPOSED AND EXISTING LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE LIGHTING CONTROLLER WORK.
4. PROVIDE AND INSTALL PVCC RGC EXPANSION/DEFLECTION AXDX FITTING IN CONDUIT AT OPEN ABUTMENT JOINT.

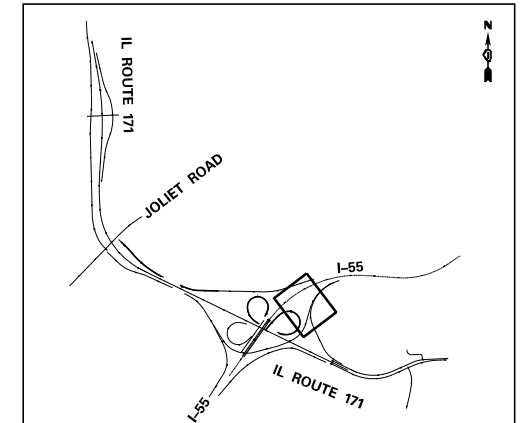
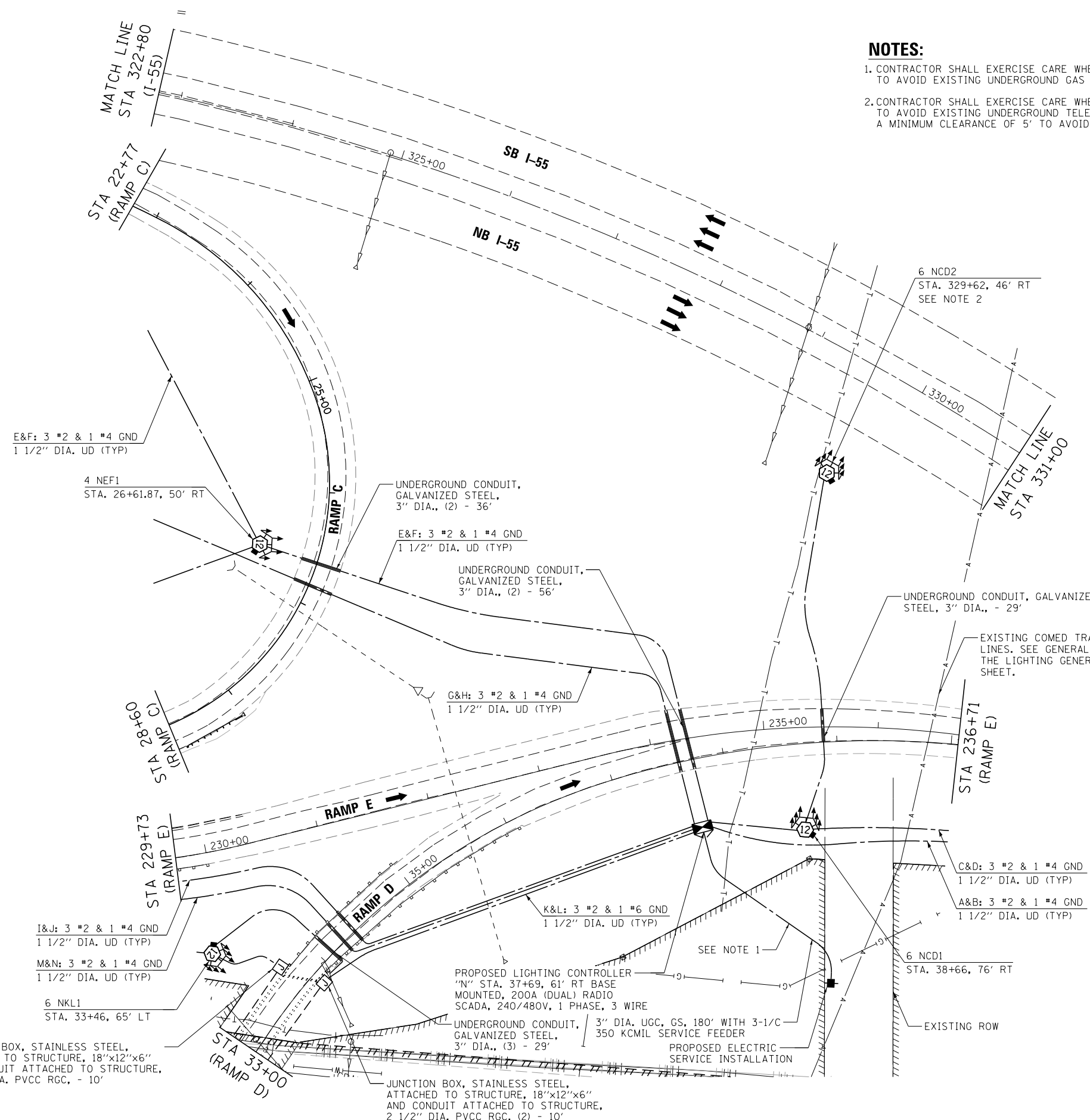


FILE NAME = ...\\D160W75-sh1-155-pr1ight-NB-10.dgn	DESIGNED - GRR	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN			F.A.P. R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME = jworthington	DRAWN - JLW	REVISED -			I-55			372/373	2013-037B-R	COOK	787	197	
PLOT DATE = 8/31/2015	CHECKED - GHT	REVISED -			SCALE: 1"=50' SHEET 27 OF 61 SHEETS STA. TO STA.			CONTRACT NO. 60W75					
	DATE - 6/12/2015	REVISED -			ILLINOIS FED. AID PROJECT								



NOTES:

1. CONTRACTOR SHALL EXERCISE CARE WHEN INSTALLING CONDUIT TO AVOID EXISTING UNDERGROUND GAS PIPELINE IN THIS AREA.
2. CONTRACTOR SHALL EXERCISE CARE WHEN DRILLING FOUNDATION TO AVOID EXISTING UNDERGROUND TELEPHONE LINES. MAINTAIN A MINIMUM CLEARANCE OF 5' TO AVOID DAMAGE.



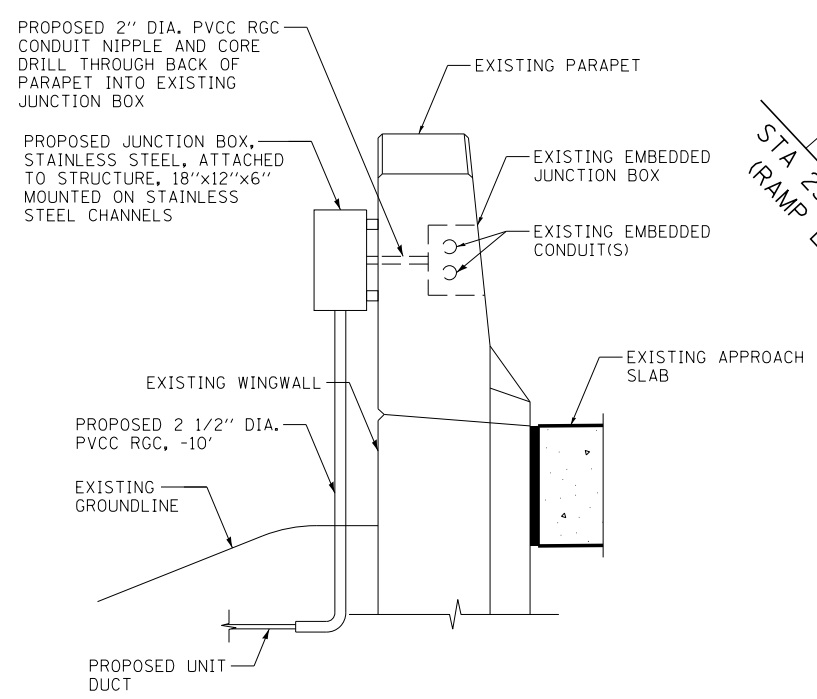
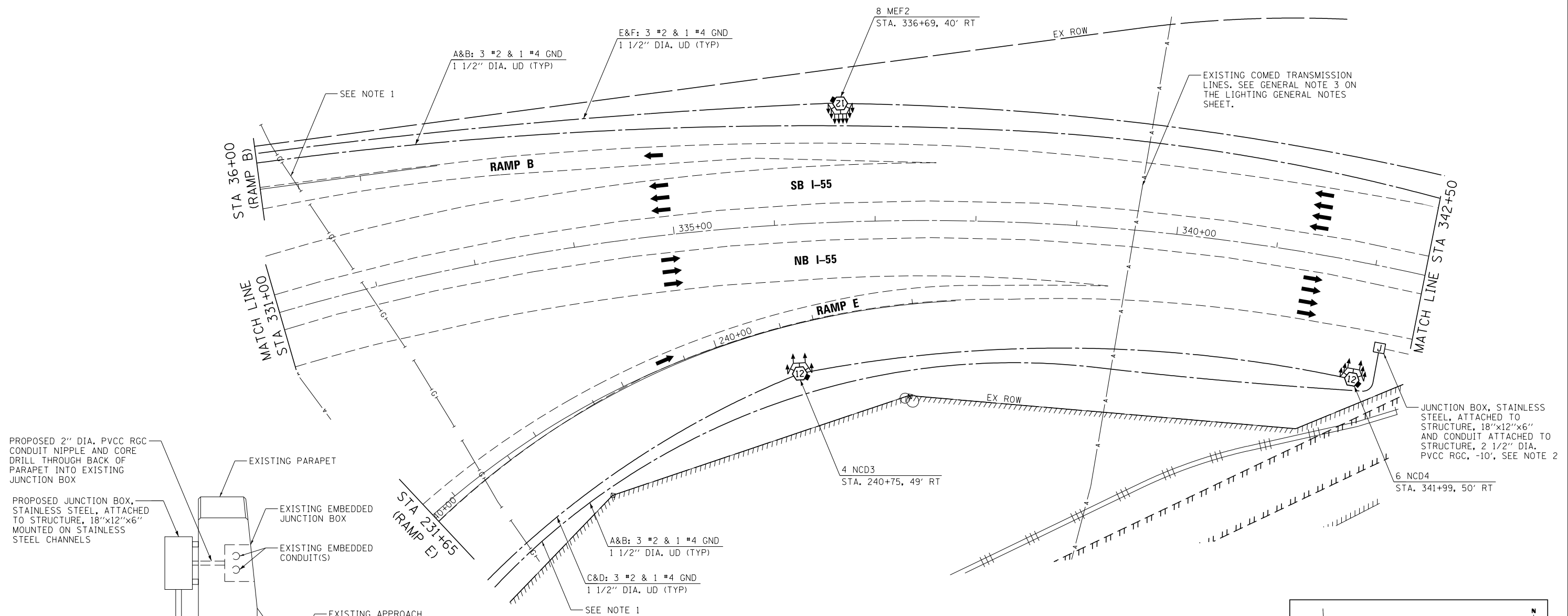
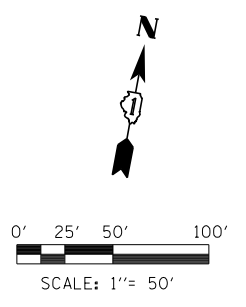
FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sh1-155-pr1ght-NB-11.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN	
I-55	
SCALE: 1"=50'	SHEET 28 OF 61 SHEETS
STA.	TO STA.

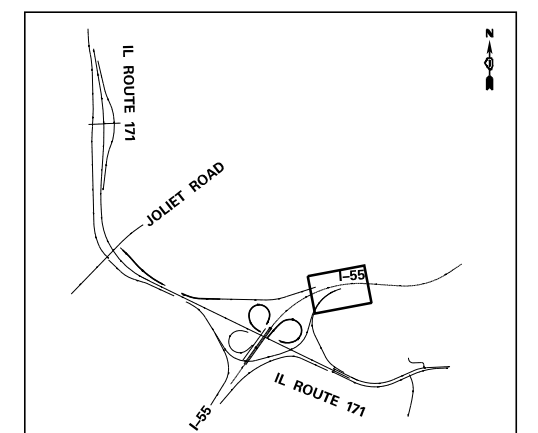
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	198
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



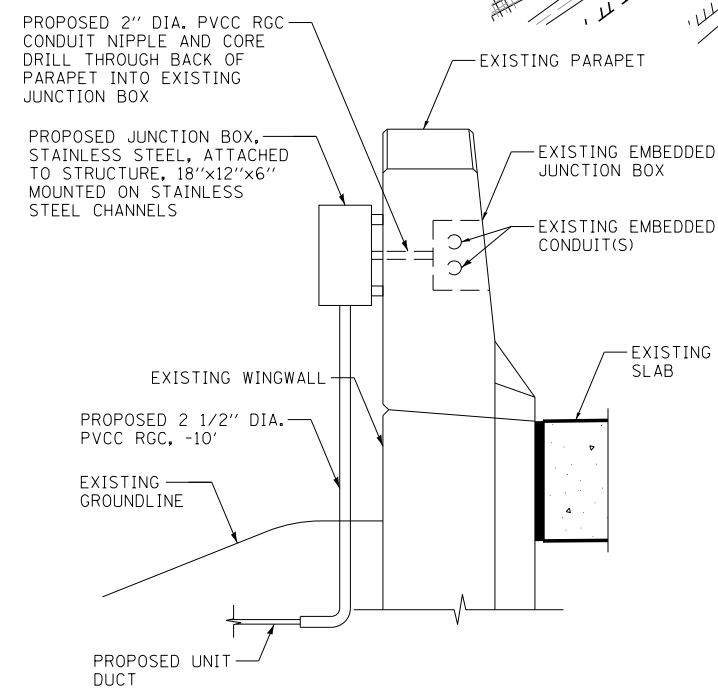
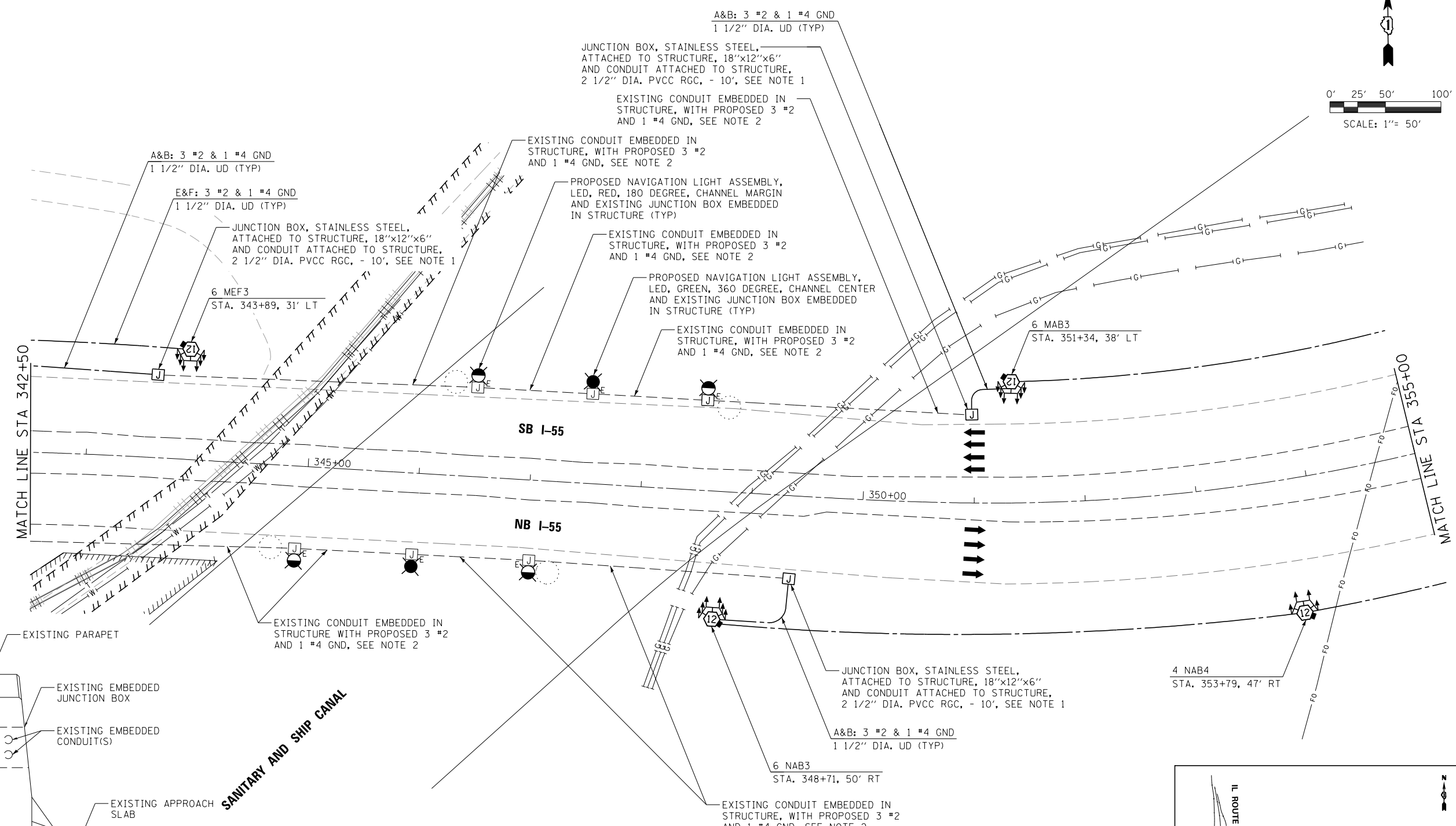
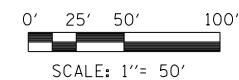
EXISTING EMBEDDED JUNCTION BOX DETAIL

NOTES:

1. CONTRACTOR SHALL EXERCISE CARE WHEN INSTALLING CONDUIT TO AVOID EXISTING UNDERGROUND GAS PIPELINE IN THIS AREA.
2. CONTRACTOR SHALL CORE DRILL THROUGH THE EXISTING PARAPET WALL INTO THE BACK OF THE EXISTING EMBEDDED JUNCTION BOX. THE COSTS FOR THIS CORING WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX AND 2 1/2" DIA. PVCC RGC DOWN TO THE GROUND.

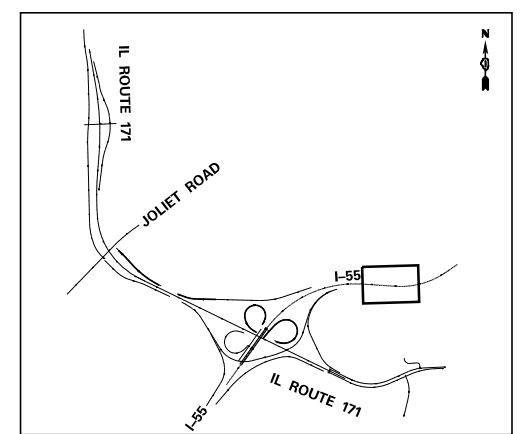


FILE NAME = ... \D160W75-sh-t-155-pr-light-NB-12.dgn	DESIGNED - GRR	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN I-55		F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 199		
USER NAME = jworthington	CHECKED - GHT	REVISED -					CONTRACT NO. 60W75						
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -			SCALE: 1"=50'		SHEET 29 OF 61 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				



EXISTING EMBEDDED JUNCTION BOX DETAIL

- NOTES:**
1. CONTRACTOR SHALL CORE DRILL THROUGH THE EXISTING PARAPET WALL INTO THE BACK OF THE EXISTING EMBEDDED JUNCTION BOX. THE COSTS FOR THIS CORING WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX AND 2 1/2" DIA. PVCC RGC DOWN TO THE GROUND.
 2. CONTRACTOR SHALL REMOVE THE EXISTING CABLES FROM THE CONDUIT PRIOR TO INSTALLATION OF THE PROPOSED CABLES. REMOVAL OF THE EXISTING CABLES SHALL BE PAID FOR UNDER PAY ITEM "REMOVE ELECTRIC CABLE FROM CONDUIT" FOR EACH CABLE REMOVED.
 3. SEE NAVIGATION LIGHTING DETAILS FOR ASSEMBLY MOUNTING DETAILS.



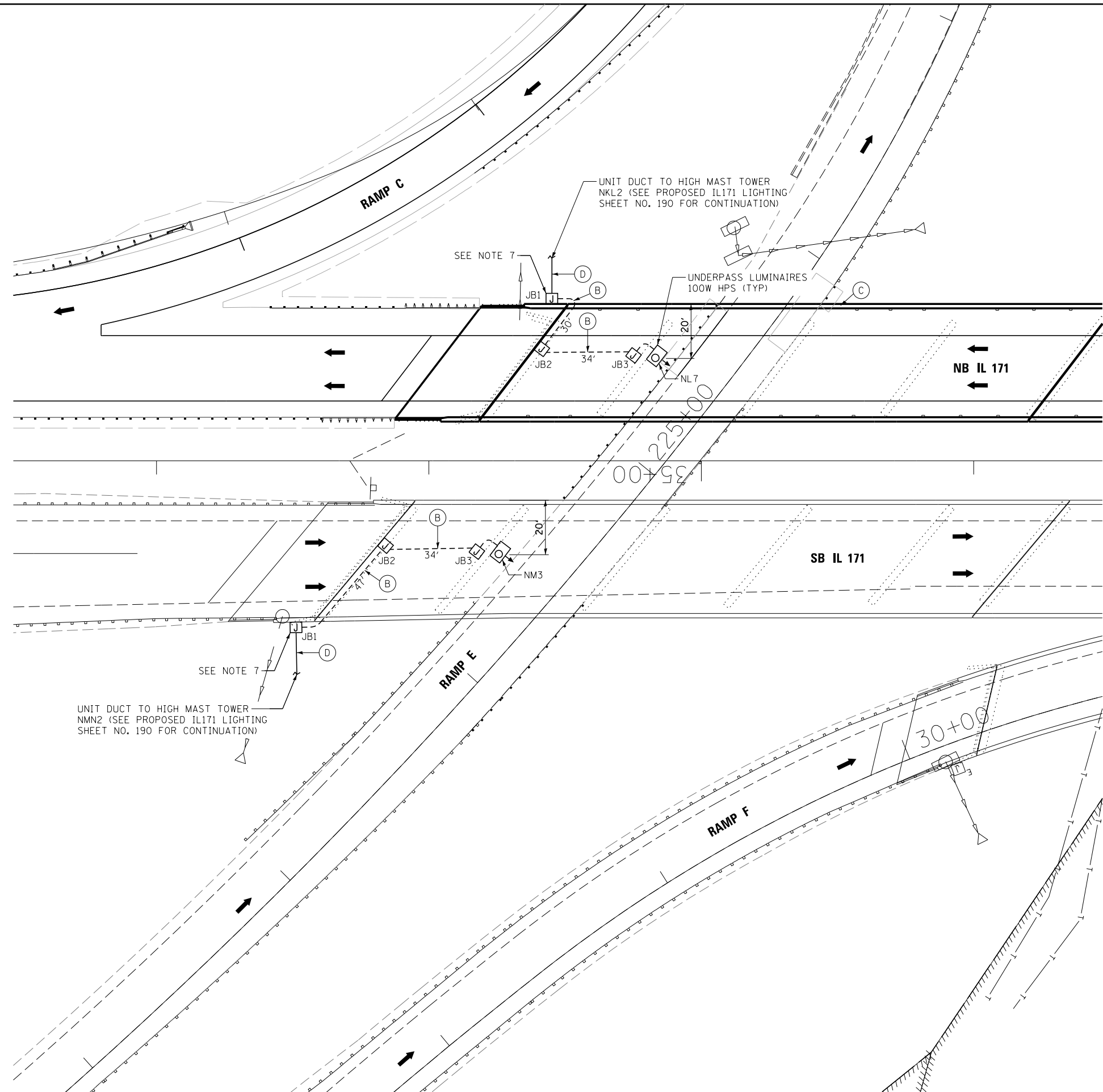
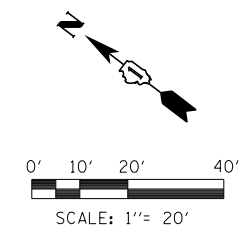
FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sh-155-pr-light-NB-13.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN	
I-55	
SCALE: 1"=50'	SHEET 30 OF 61 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	200
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



LEGEND

- (A) CONDUIT ATTACHED TO STRUCTURE, 1" DIA. PVCC RGC WITH 3-1/2 NO. 10 AND 1/2 NO. 10 GND.
 - (B) CONDUIT ATTACHED TO STRUCTURE, 1" DIA. PVCC RGC WITH 2-1/2 NO. 10 AND 1/2 NO. 10 GND.
 - (C) CONDUIT EMBEDDED IN STRUCTURE, 2" DIA. PVC WITH 3-1/2 NO. 2 AND 1/2 NO. 4 GND.
 - (D) CONDUIT ATTACHED TO STRUCTURE, 2 1/2 " DIA. PVCC RGC WITH UNIT DUCT AS NOTED ON PLANS (FOR TRANSITION TO UNDERGROUND) - 10'
- JB1 JUNCTION BOX, STAINLESS STEEL, 18"x12"x6", ATTACHED TO PARAPET
- JB2 JUNCTION BOX, STAINLESS STEEL, 12"x12"x6", ATTACHED TO ABUTMENT
- JB3 JUNCTION BOX, STAINLESS STEEL, 6"x6"x4", ATTACHED TO TOP OF PIER CAP

NOTES:

1. UNDERPASS LUMINAIRES SHALL BE MOUNTED TO THE FACE OF PIERS AT A MOUNTING HEIGHT OF APPROXIMATELY 15'.
2. THE DISTANCES SHOWN BETWEEN THE UNDERPASS LUMINAIRE IS MEASURED FROM CENTER OF LUMINAIRES.
3. THE CABLE SPLICES AT THE JUNCTION BOX SHALL BE DONE ACCORDING TO THE SPLICING DETAIL SHOWN ON IDOT-D1 STANDARD DETAIL DRAWING NO. BE-702 PROVIDE DOUBLE POLE FUSE HOLDERS WITH 5 AMP FUSE AND SOLID NEUTRAL.
4. UNDERPASS LUMINAIRES SHALL BE INSTALLED AS SHOWN ON IDOT-D1 STANDARDS DRAWING NO. BE-902. SEE THIS DETAIL FOR FURTHER INFORMATION ON CONDUIT ROUTING AND INSTALLATION.
5. AT ALL LOCATIONS WHERE EXPANSION/DEFLECTION CAN OCCUR IN CONDUIT ATTACHED TO STRUCTURE AND FOR CONNECTION TO LUMINAIRES THE CONTRACTOR SHALL UTILIZE LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT.
6. SEE LIGHTING PLAN SHEET FOR CONDUIT EMBEDDED IN PARAPET WALL AND ASSOCIATED CABLING.
7. CONTRACTOR SHALL PROVIDE AND INSTALL TWO POLE WEATHERPROOF FUSE HOLDERS INSIDE THE FIRST UNDERPASS LIGHTING JUNCTION BOX. PROVIDE 10A FUSE AND SOLID NEUTRAL FOR EACH FUSE HOLDER.

FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-underpass-RampE.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

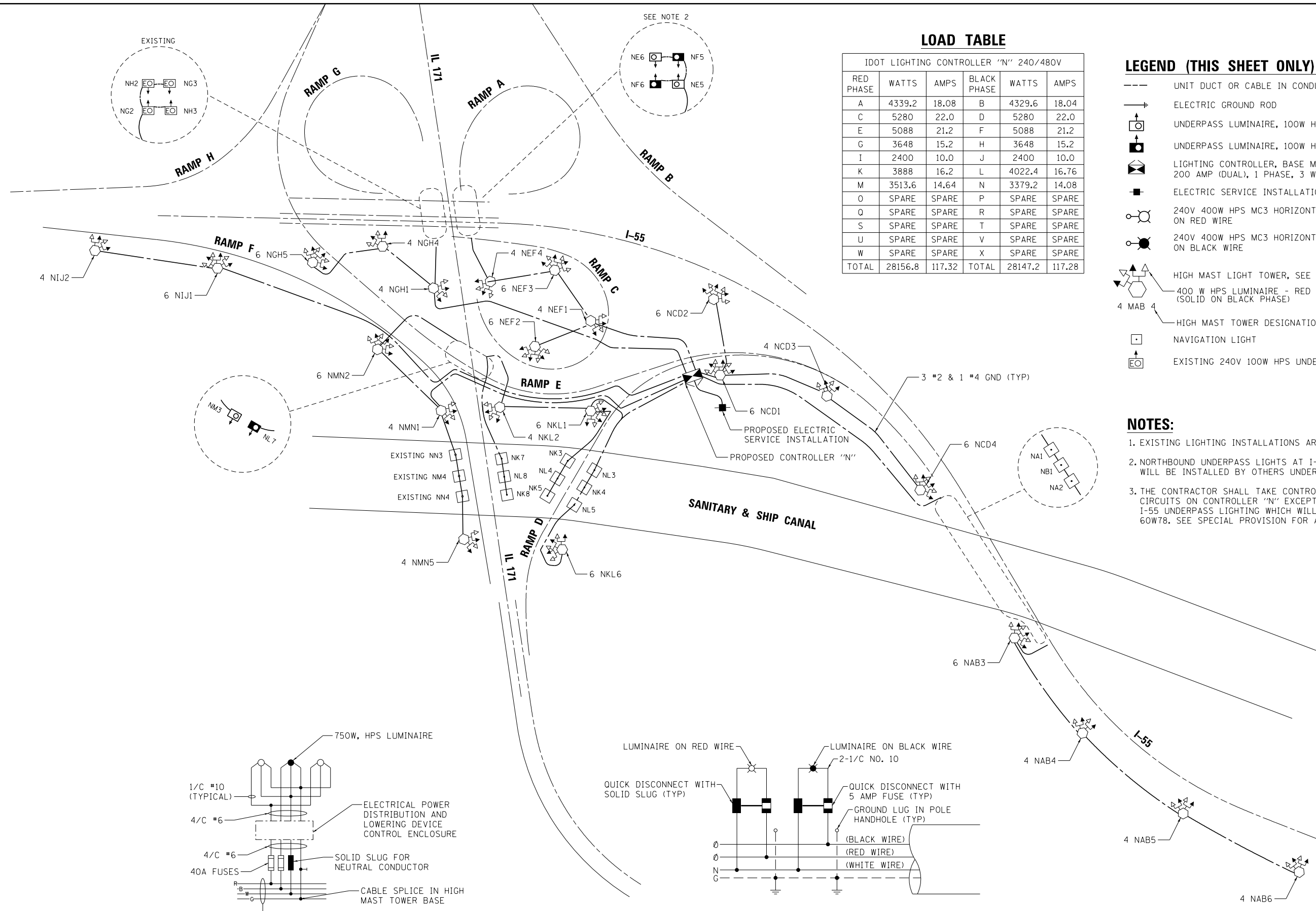


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**UNDERPASS LIGHTING PLAN
RAMP E UNDER IL171**

SCALE: 1"=20' SHEET 32 OF 61 SHEETS STA. TO STA.

F.A.P. R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	202
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



LOAD TABLE

IDOT LIGHTING CONTROLLER "N" 240/480V					
RED PHASE	WATTS	AMPS	BLACK PHASE	WATTS	AMPS
A	4339.2	18.08	B	4329.6	18.04
C	5280	22.0	D	5280	22.0
E	5088	21.2	F	5088	21.2
G	3648	15.2	H	3648	15.2
I	2400	10.0	J	2400	10.0
K	3888	16.2	L	4022.4	16.76
M	3513.6	14.64	N	3379.2	14.08
O	SPARE	SPARE	P	SPARE	SPARE
Q	SPARE	SPARE	R	SPARE	SPARE
S	SPARE	SPARE	T	SPARE	SPARE
U	SPARE	SPARE	V	SPARE	SPARE
W	SPARE	SPARE	X	SPARE	SPARE
TOTAL	28156.8	117.32	TOTAL	28147.2	117.28

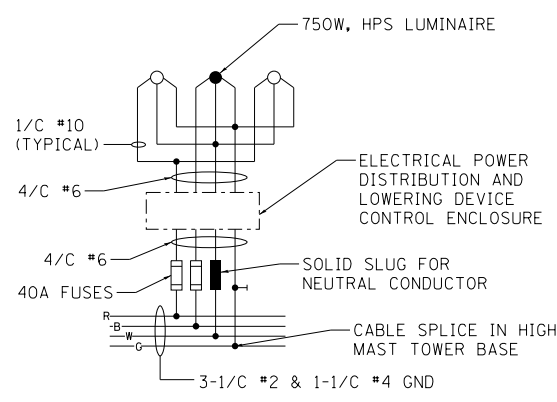
LEGEND (THIS SHEET ONLY):

- UNIT DUCT OR CABLE IN CONDUIT
- ⊥ ELECTRIC GROUND ROD
- ⊕ UNDERPASS LUMINAIRE, 100W HPS, 240V ON RED WIRE
- ⊖ UNDERPASS LUMINAIRE, 100W HPS, 240V ON BLACK WIRE
- ⊞ LIGHTING CONTROLLER, BASE MOUNTED, 240/480V, 200 AMP (DUAL), 1 PHASE, 3 WIRE, RADIO SCADA
- ⊞ ELECTRIC SERVICE INSTALLATION
- ⊕ 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON RED WIRE
- ⊖ 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON BLACK WIRE
- ⊕ HIGH MAST LIGHT TOWER, SEE TYPICAL WIRING DIAGRAM
- ⊕ 400 W HPS LUMINAIRE - RED PHASE (SOLID ON BLACK PHASE)
- 4 MAB 4 HIGH MAST TOWER DESIGNATION
- ⊞ NAVIGATION LIGHT
- ⊞ EXISTING 240V 100W HPS UNDERPASS LUMINAIRE

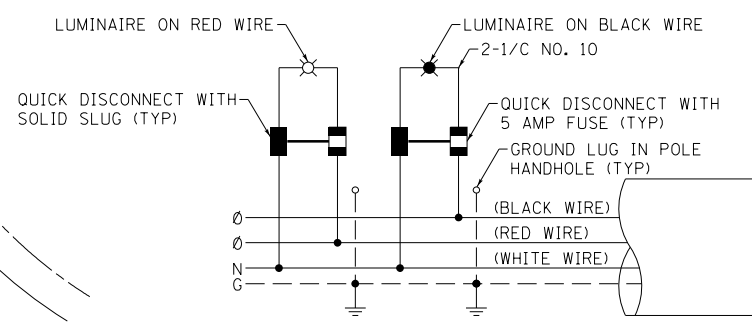
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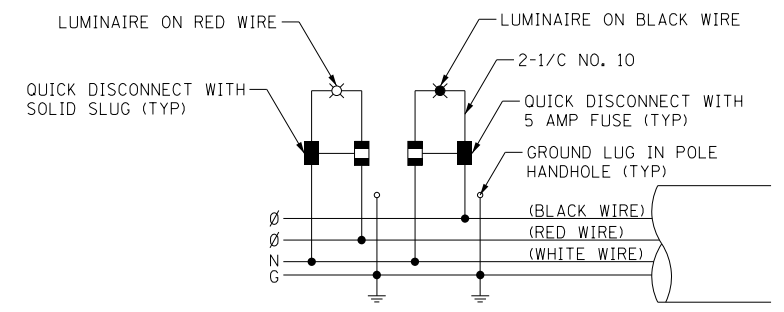
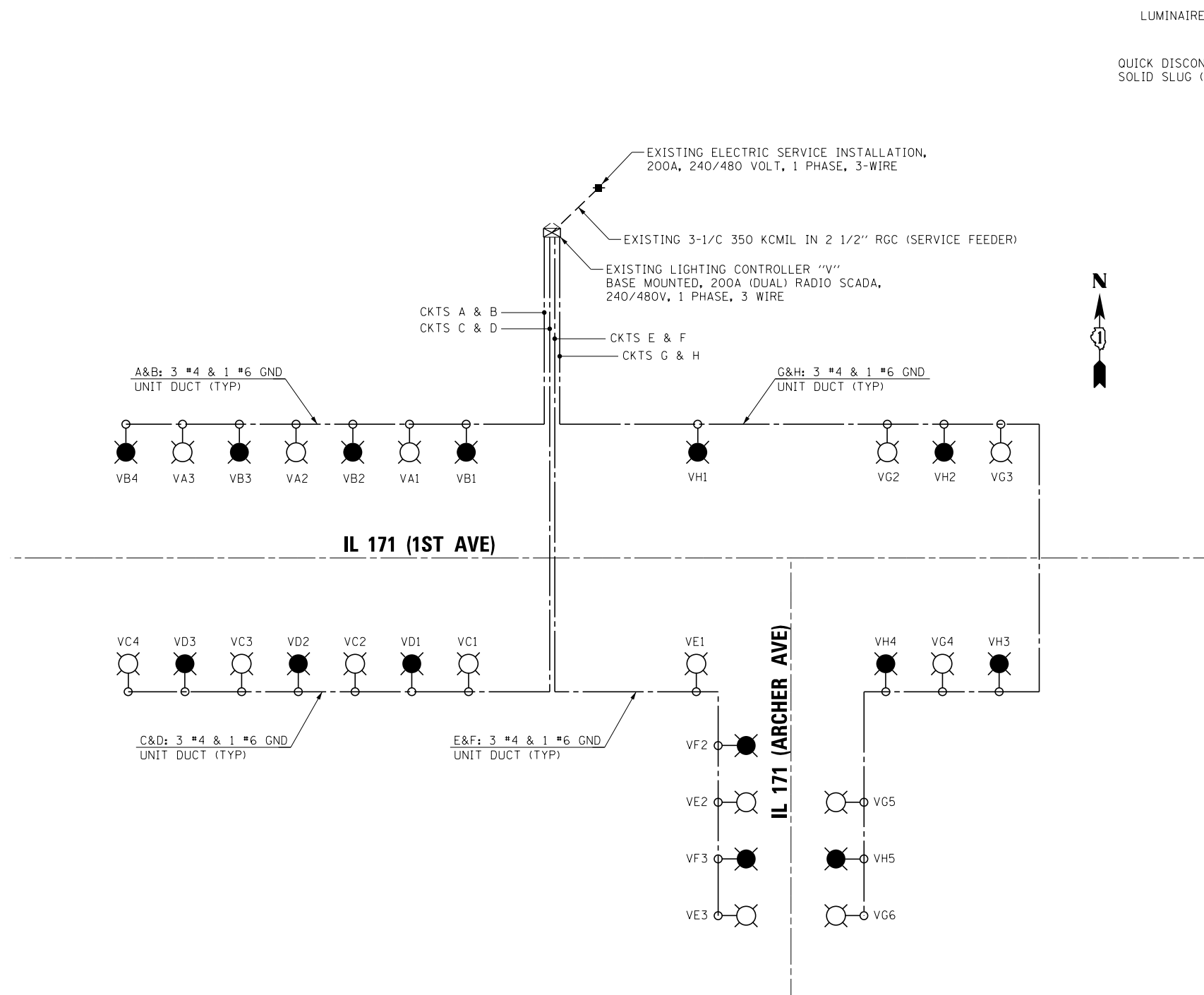
1. EXISTING LIGHTING INSTALLATIONS ARE "FOR INFORMATION ONLY".
2. NORTHBOUND UNDERPASS LIGHTS AT I-55 SHOWN ARE PROPOSED AND WILL BE INSTALLED BY OTHERS UNDER CONTRACT 60W78.
3. THE CONTRACTOR SHALL TAKE CONTROL AND MAINTAIN ALL LIGHTING CIRCUITS ON CONTROLLER "N" EXCEPT FOR THE EXISTING AND PROPOSED I-55 UNDERPASS LIGHTING WHICH WILL BE MAINTAINED BY CONTRACT 60W78. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

TYPICAL HIGH MAST TOWER WIRING DIAGRAM



TYPICAL LIGHT POLE WIRING DIAGRAM





TYPICAL LIGHT POLE WIRING DIAGRAM

LOAD TABLE

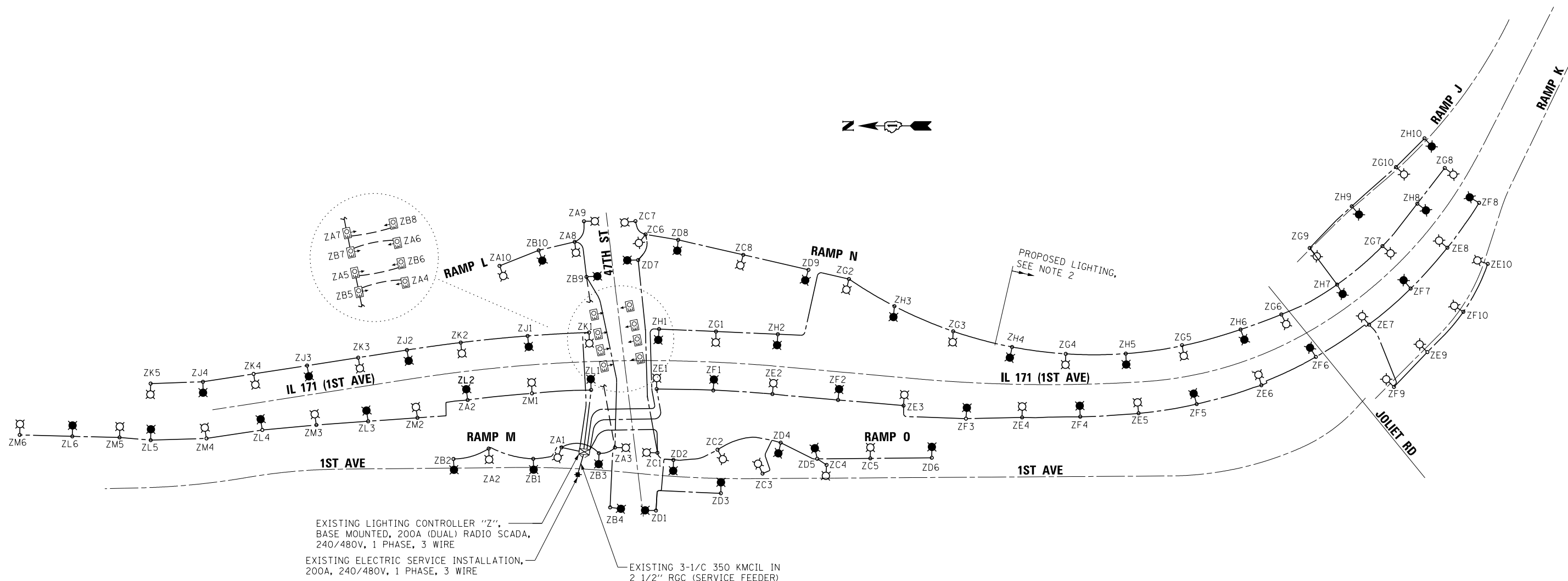
IDOT LIGHTING CONTROLLER "V" 240/480V					
RED PHASE	WATTS	AMPS	BLACK PHASE	WATTS	AMPS
A	1434	6.0	B	1912	8.0
C	1912	8.0	D	1434	6.0
E	1434	6.0	F	956	4.0
G	2390	10.0	H	2390	10.0
I	SPARE	SPARE	J	SPARE	SPARE
TOTAL	7170	30.0	TOTAL	6692	28.0

NOTES:

- EXISTING LIGHTING INSTALLATIONS ARE "FOR INFORMATION ONLY".
- SOUTHBOUND LIGHTS AND LIGHTS AT/EAST OF ARCHER AVE ARE EXISTING TO REMAIN.

LEGEND (THIS SHEET ONLY):

- UNIT DUCT OR CABLE IN CONDUIT
- ⊕ ELECTRIC GROUND ROD
- ⊗ EXISTING LIGHTING CONTROLLER, BASE MOUNTED, 240/480V, 200 AMP (DUAL) RADIO SCADA, 1 PHASE, 3 WIRE
- ⊕ ELECTRIC SERVICE INSTALLATION
- 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON RED WIRE
- 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON BLACK WIRE



LEGEND

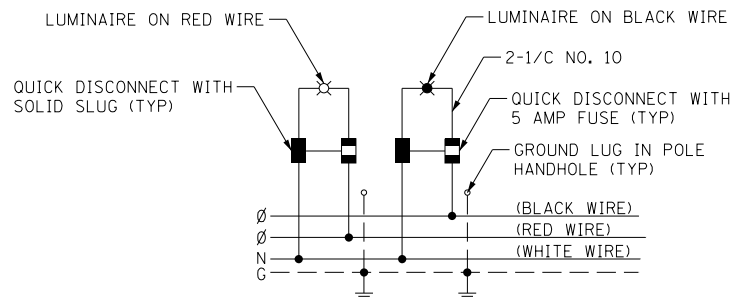
- UNIT DUCT OR CABLE IN CONDUIT
- ELECTRIC GROUND ROD
- ⊠ EXISTING LIGHTING CONTROLLER, BASE MOUNTED, 240/480V, 200 AMP (DUAL) RADIO SCADA, 1 PHASE, 3 WIRE
- ELECTRIC SERVICE INSTALLATION
- 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON RED WIRE
- 240V 400W HPS MC3 HORIZONTAL MOUNT LUMINAIRE ON BLACK WIRE
- ⊕ UNDERPASS LUMINAIRE, 100W HPS, 240V ON RED WIRE
- ⊖ UNDERPASS LUMINAIRE, 100W HPS, 240V ON BLACK WIRE
- ⊞ EXISTING 240V 100W HPS UNDERPASS LUMINAIRE

LOAD TABLE

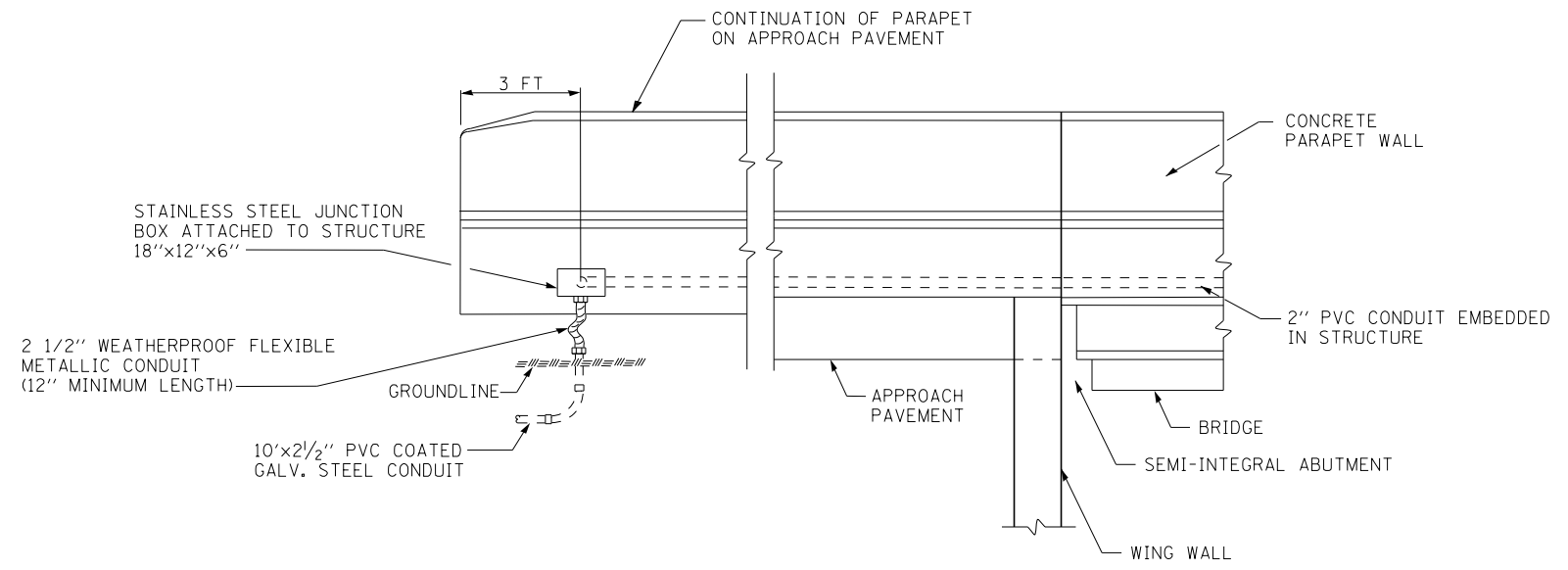
IDOT LIGHTING CONTROLLER "Z" 240/480V					
RED PHASE	WATTS	AMPS	BLACK PHASE	WATTS	AMPS
A	3348	14.0	B	3348	14.0
C	3824	15.9	D	4302	17.9
E	4780	19.9	F	4780	19.9
G	4780	19.9	H	4780	19.9
I	SPARE	SPARE	J	1912	8.0
K	2390	10.0	L	2868	12.0
M	2868	12.0	N	SPARE	SPARE
O	SPARE	SPARE	P	SPARE	SPARE
TOTAL	21990	91.7	TOTAL	21990	91.7

NOTES:

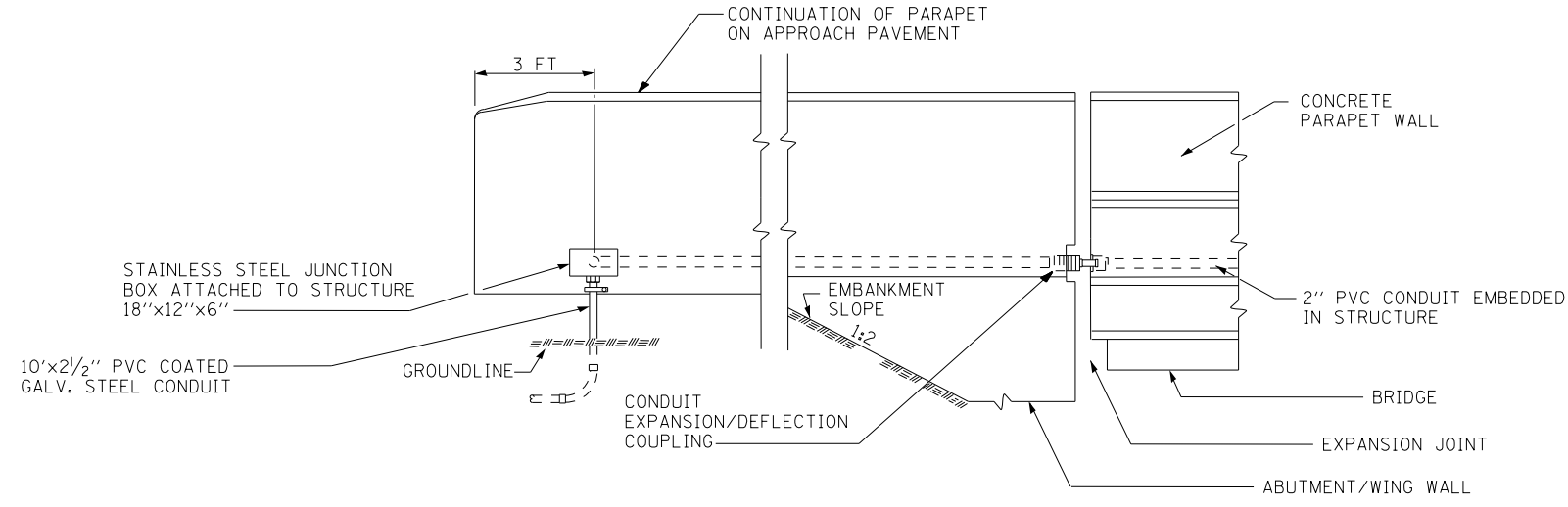
1. EXISTING LIGHTING INSTALLATIONS ARE "FOR INFORMATION ONLY".
2. SOUTHBOUND LIGHTS AND ALL LIGHTS AT THE 47TH STREET INTERCHANGE ARE EXISTING AND WILL REMAIN.




TYPICAL LIGHT POLE WIRING DIAGRAM

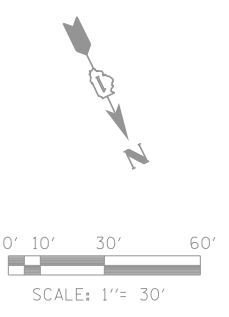
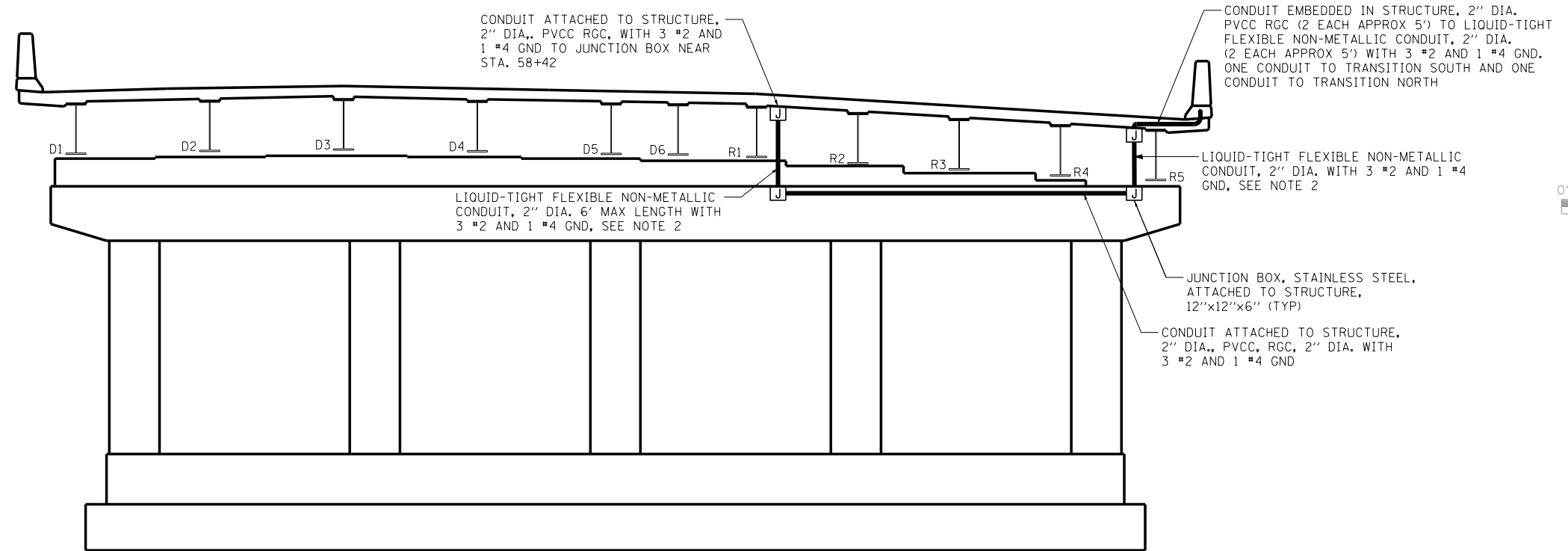


CONDUIT DETAIL
(SEMI-INTEGRAL ABUTMENT-SN 016-0489)



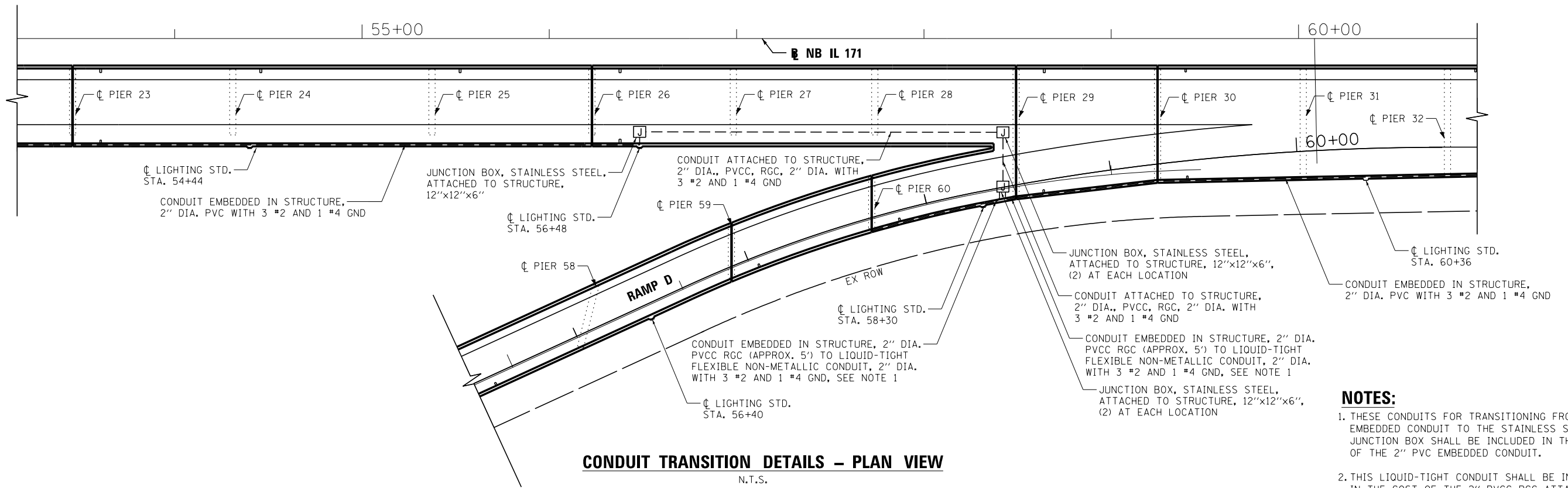
CONDUIT DETAIL
(OPEN ABUTMENT)

FILE NAME =	DESIGNED - GRR	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONDUIT TRANSITION DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \D160W75-sh1-1L171-conduit-detail-NB-01.dgn	DRAWN - JLW	REVISED -						372/373	2013-037B-R	COOK	787	207
USER NAME = jworthington	CHECKED - GHT	REVISED -			SCALE: N.T.S. SHEET 37 OF 61 SHEETS STA. TO STA.			CONTRACT NO. 60W75				
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -			ILLINOIS FED. AID PROJECT							



CONDUIT TRANSITION DETAILS – ELEVATION AT PIER 29 –
CL BRG. PIER 29 – SN 016-2456


N.T.S.



CONDUIT TRANSITION DETAILS – PLAN VIEW

N.T.S.

- NOTES:**
1. THESE CONDUITS FOR TRANSITIONING FROM 2" PVC EMBEDDED CONDUIT TO THE STAINLESS STEEL JUNCTION BOX SHALL BE INCLUDED IN THE COST OF THE 2" PVC EMBEDDED CONDUIT.
 2. THIS LIQUID-TIGHT CONDUIT SHALL BE INCLUDED IN THE COST OF THE 2" PVCC RGC ATTACHED TO STRUCTURE.

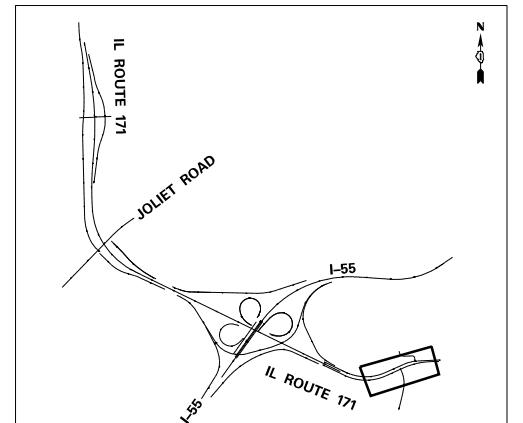
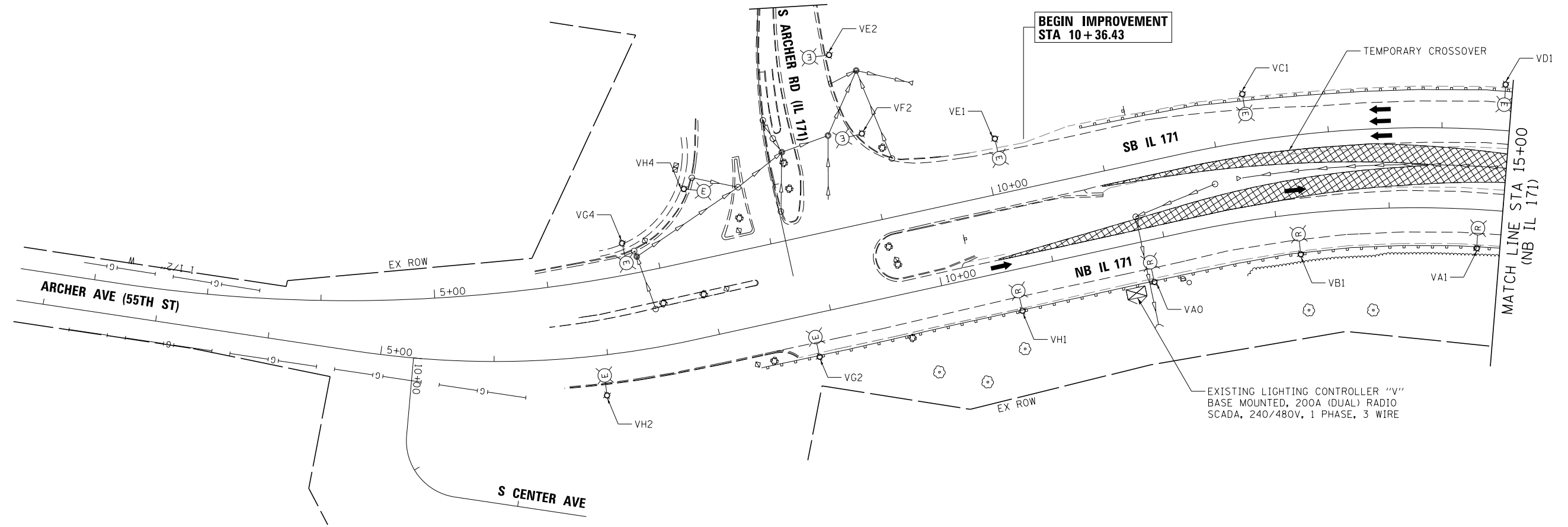
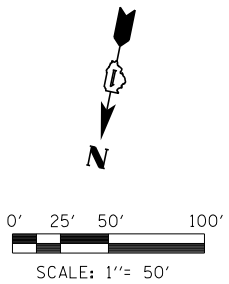
FILE NAME =	DESIGNED - GRR	REVISED -		<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	CONDUIT TRANSITION DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \D160W75-sh1-IL171-conduit-detail-NB-02.dgn	DRAWN - JLW	REVISED -			372/373	2013-037B-R	COOK	787	208			
USER NAME = jworthington	CHECKED - GHT	REVISED -			CONTRACT NO. 60W75							
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -			SCALE: N.T.S.	SHEET 38 OF 61 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER FOUNDATION LOCATION			HIGH MAST LIGHT TOWER FOUNDATION DESIGN DEPTH (FT)	HIGH MAST TOWER HEIGHT (FT)	LUMINAIRE AIMING	SERVICE PAD TYPE (SEE NOTE 7)	LUMINAIRE AIMING
	STATION	OFFSET (NOTE 4)	BASELINE					
6 MAB3	351+34	38' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B	
4 MAB4	357+70	43' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B	
4 MAB5	363+87	42' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B	
8 MEF1	35+77	35' RT	RAMP B	15.0	A	PERPENDICULAR TO I-55	A	AVOID EXISTING UNDERGROUND LIGHTING CABLE NEARBY
8 MEF2	336+69	40' RT	I-55	17.5	A	PERPENDICULAR TO I-55	A	
6 MEF3	343+89	31' LT	I-55	17.5	B	PERPENDICULAR TO I-55	B	
6 MIJ1	41+83	51' LT	RAMP B	16.5	A	PERPENDICULAR TO RAMP B	A	AVOID EXISTING UNDERGROUND LIGHTING CABLE NEARBY
8 MIJ2	53+47	44' LT	RAMP A	16.5	A	PERPENDICULAR TO I-55	A	
6 MIJ3	48+75	70' RT	RAMP A	15.0	A	PERPENDICULAR TO RAMP A	A	
4 MIJ4	44+46	40' RT	RAMP A	15.0	B	PERPENDICULAR TO IL-171	B	
4 MKL1	24+13	48' RT	RAMP G	16.5	B	PERPENDICULAR TO IL-171	B	
6 MKL2	315+08	49' LT	RAMP G	25.0	A	PERPENDICULAR TO I-55	A	
4 MKL3	20+20	65' RT	RAMP G	17.5	A	PERPENDICULAR TO RAMP G	A	
6 MKL4	212+06	32' RT	RAMP E	17.5	B	7 DEGREES LEFT OF PERP. TO RAMP E	B	
6 MMN1	114+61	50' LT	RAMP H	16.5	B	PERPENDICULAR TO I-55	B	
6 MMN2	119+35	46' RT	RAMP H	15.0	A	PERPENDICULAR TO I-55	A	
6 NAB3	348+71	50' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B	
4 NAB4	353+79	47' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B	
4 NAB5	358+74	50' RT	I-55	15.0	B	PERPENDICULAR TO I-55	B	
4 NAB6	363+89	49' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B	AVOID EXISTING UNDERGROUND LIGHTING CABLE NEARBY
6 NCD1	38+66	76' RT	RAMP D	16.5	A	PERPENDICULAR TO RAMP E	A	
6 NCD2	329+62	46' RT	I-55	16.5	A	PERPENDICULAR TO I-55	A	
4 NCD3	240+75	49' RT	RAMP E	16.5	A	PERPENDICULAR TO I-55	A	
6 NCD4	341+99	50' RT	I-55	17.5	B	PERPENDICULAR TO I-55	B	
6 NEF1	26+62	50' RT	RAMP C	16.5	A	13 DEGREES LEFT OF PERP. TO RAMP C	A	
6 NEF2	30+69	66' RT	RAMP C	17.5	B	9 DEGREES LEFT OF PERP. TO RAMP C	B	
6 NEF3	22+74	50' RT	RAMP C	17.5	A	PERPENDICULAR TO I-55	A	
4 NEF4	38+58	41' RT	IL-171	15.0	B	PERPENDICULAR TO IL-171	B	
4 NGH1	38+66	57' LT	IL-171	17.5	B	PERPENDICULAR TO IL-171	B	
4 NGH4	315+27	51' RT	I-55	16.5	B	PERPENDICULAR TO I-55	B	
6 NGH5	217+22	61' RT	RAMP E	17.5	B	PERPENDICULAR TO RAMP E	B	AVOID EXISTING UNDERGROUND LIGHTING CABLE NEARBY
6 NIJ1	18+70	50' RT	RAMP F	15.0	A	PERPENDICULAR TO I-55	A	AVOID EXISTING UNDERGROUND LIGHTING CABLE NEARBY
4 NIJ2	13+49	44' RT	RAMP F	15.5	A	PERPENDICULAR TO I-55	A	AVOID EXISTING UNDERGROUND LIGHTING CABLE NEARBY
6 NKL1	33+46	65' LT	RAMP D	17.5	B	PERPENDICULAR TO RAMP D	B	
4 NKL2	33+42	30' RT	IL-171	17.5	A	PERPENDICULAR TO IL-171	A	
6 NKL6	28+01	29' RT	RAMP D	17.5	B	31 DEGREES LEFT OF PERP. TO RAMP D	B	
4 NMN1	30+51	30' RT	RAMP F	20.5	B	PERPENDICULAR TO IL-171	B	AVOID EXISTING UNDERGROUND TELEPHONE CABLE NEARBY
6 NMN2	26+43	45' RT	RAMP F	15.0	B	PERPENDICULAR TO RAMP F	B	
4 NMN5	36+05	49' RT	RAMP F	17.5	B	PERPENDICULAR TO IL-171	B	

NOTES:

- SEE LEGEND AND ABBREVIATIONS DRAWING FOR SYMBOLS AND CALLOUTS.
- SEE HIGH MAST DETAIL DRAWINGS FOR LIGHT TOWER AND FOUNDATION DETAILS.
- THE SCHEDULE ON THIS DRAWING REPLACES THE "SHAFT LENGTH TABLE" ON LIGHT TOWER FOUNDATION DETAIL.
- OFFSET SHOWN IS TO CENTERLINE OF DRILLED SHAFT.
- COORDINATE ALL WORK WITH CIVIL WORK, STRUCTURAL WORK, AND SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS.
- THE CONTRACTOR SHALL VERIFY THE EXISTING AND PROPOSED GROUND ELEVATIONS AND SLOPES PRIOR TO BEGINNING ANY FOUNDATION DRILLING WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FOUNDATION AND WORK PAD LOCATIONS OR TYPES. THE FOUNDATIONS MUST BE DRILLED TO THE DESIGN DEPTH. MODIFICATIONS TO THE WORK PAD TYPES SHALL BE APPROVED BY THE ENGINEER.
- SERVICE PAD TYPE A IS FLAT. SERVICE PAD TYPE B INCLUDES LOW RETAINING WALL DUE TO SLOPE.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-exlight-NB-01.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

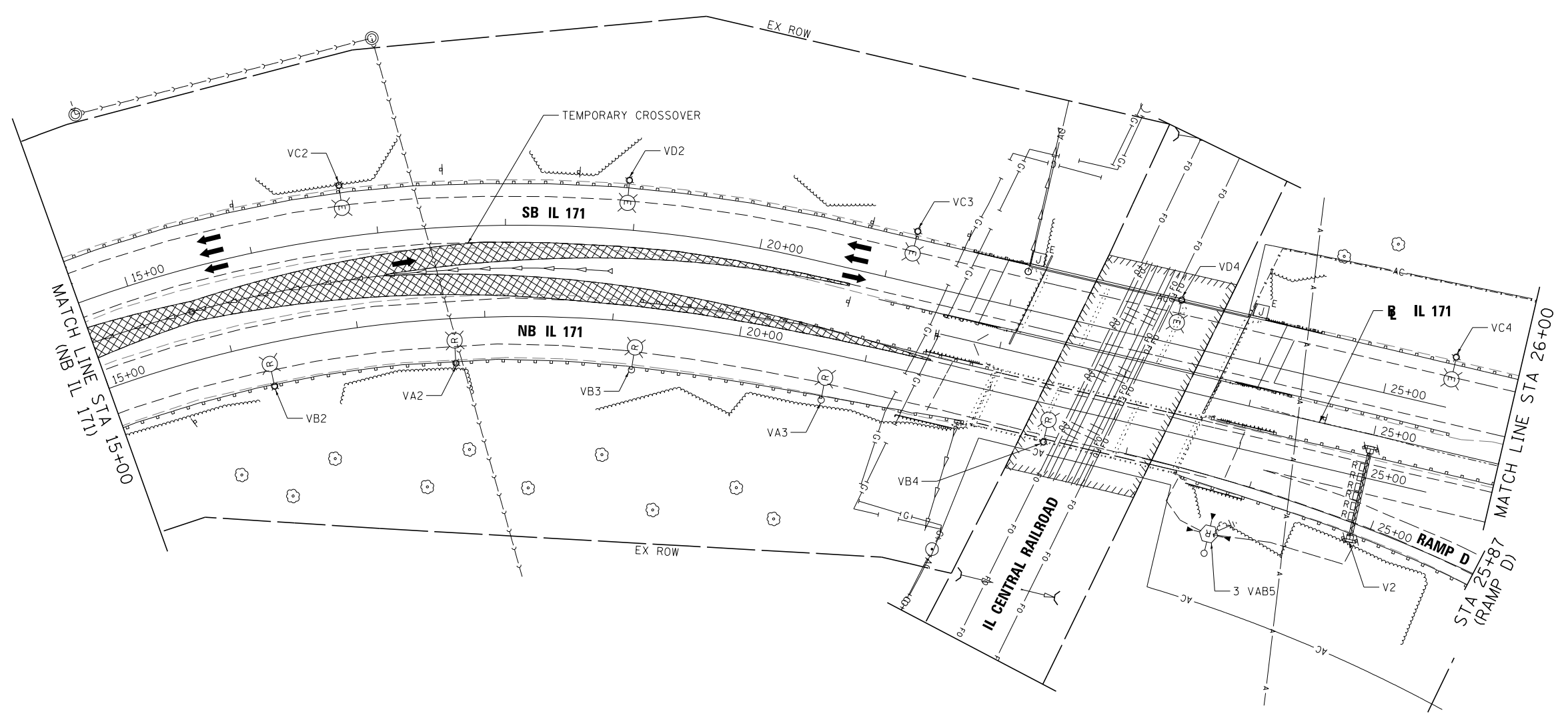
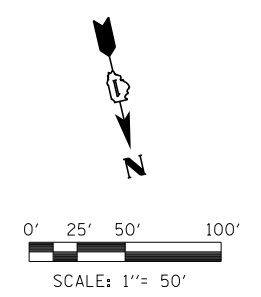


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

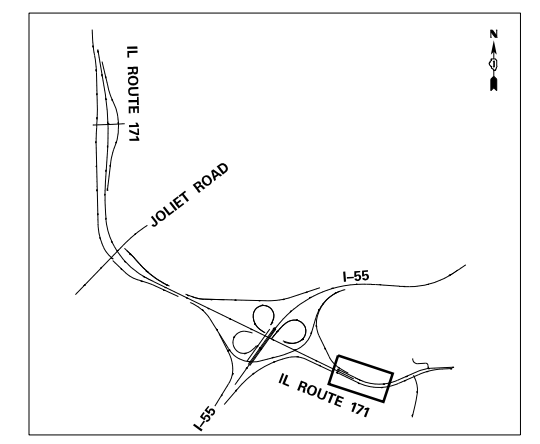
**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 4 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	174
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



NOTE:
 1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-exlight-NB-02.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



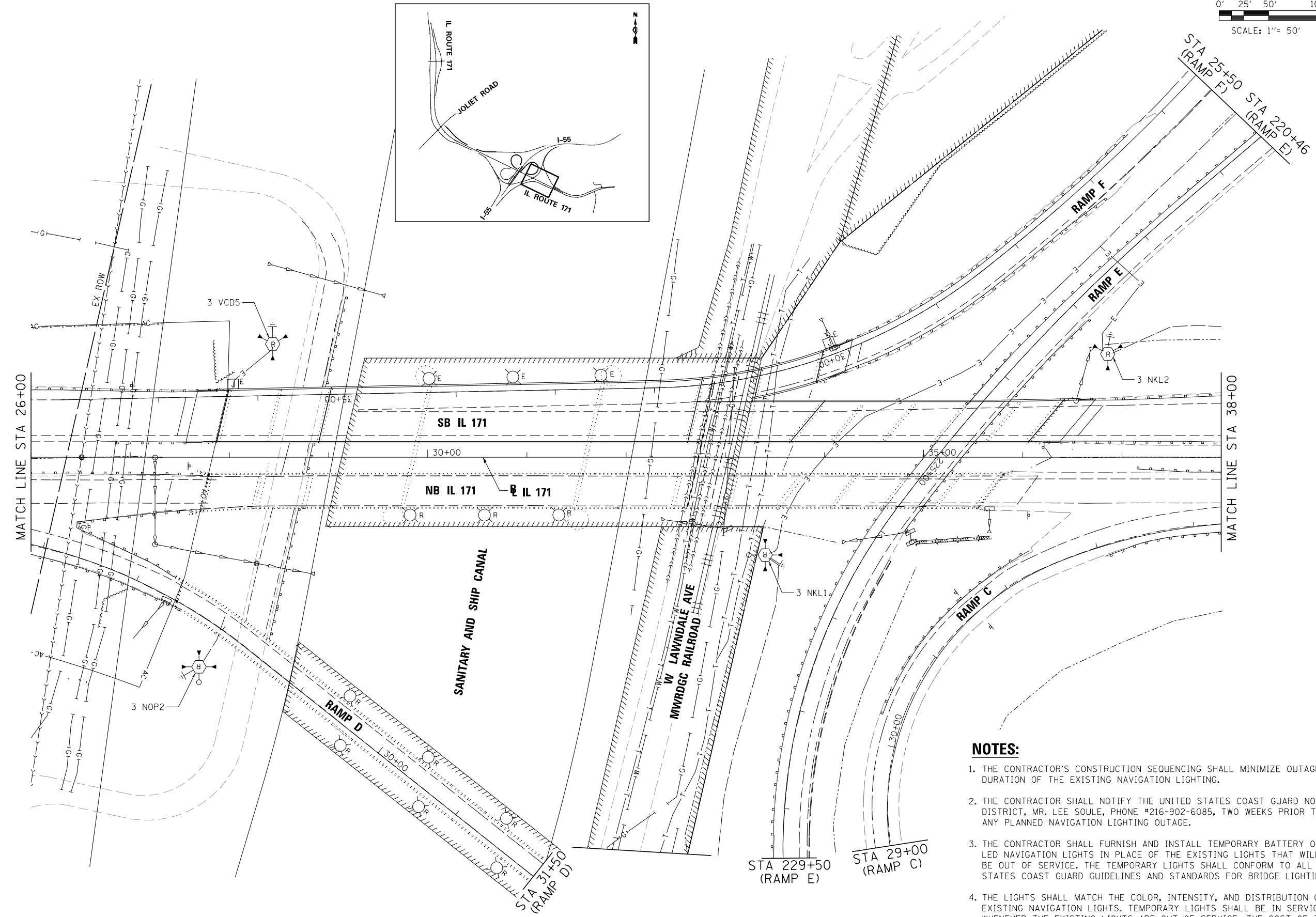
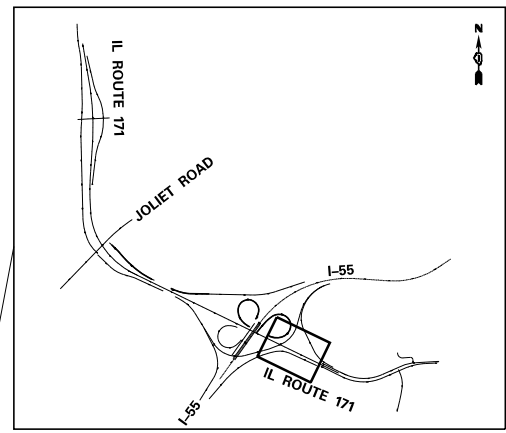
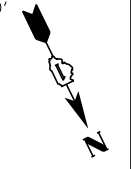
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
 TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 5 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	175
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	

0' 25' 50' 100'
SCALE: 1" = 50'



NOTES:

1. THE CONTRACTOR'S CONSTRUCTION SEQUENCING SHALL MINIMIZE OUTAGE DURATION OF THE EXISTING NAVIGATION LIGHTING.
2. THE CONTRACTOR SHALL NOTIFY THE UNITED STATES COAST GUARD NORTH DISTRICT, MR. LEE SOULE, PHONE *216-902-6085, TWO WEEKS PRIOR TO ANY PLANNED NAVIGATION LIGHTING OUTAGE.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY BATTERY OPERATED LED NAVIGATION LIGHTS IN PLACE OF THE EXISTING LIGHTS THAT WILL BE BE OUT OF SERVICE. THE TEMPORARY LIGHTS SHALL CONFORM TO ALL UNITED STATES COAST GUARD GUIDELINES AND STANDARDS FOR BRIDGE LIGHTING.
4. THE LIGHTS SHALL MATCH THE COLOR, INTENSITY, AND DISTRIBUTION OF THE EXISTING NAVIGATION LIGHTS. TEMPORARY LIGHTS SHALL BE IN SERVICE WHENEVER THE EXISTING LIGHTS ARE OUT OF SERVICE. THE COST OF TEMPORARY LED NAVIGATION LIGHTS SHALL BE INCLUDED IN THE PRICE OF THE ITEM "NAVIGATION LIGHTING SYSTEM".

FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sht-IL171-exlight-NB-03.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

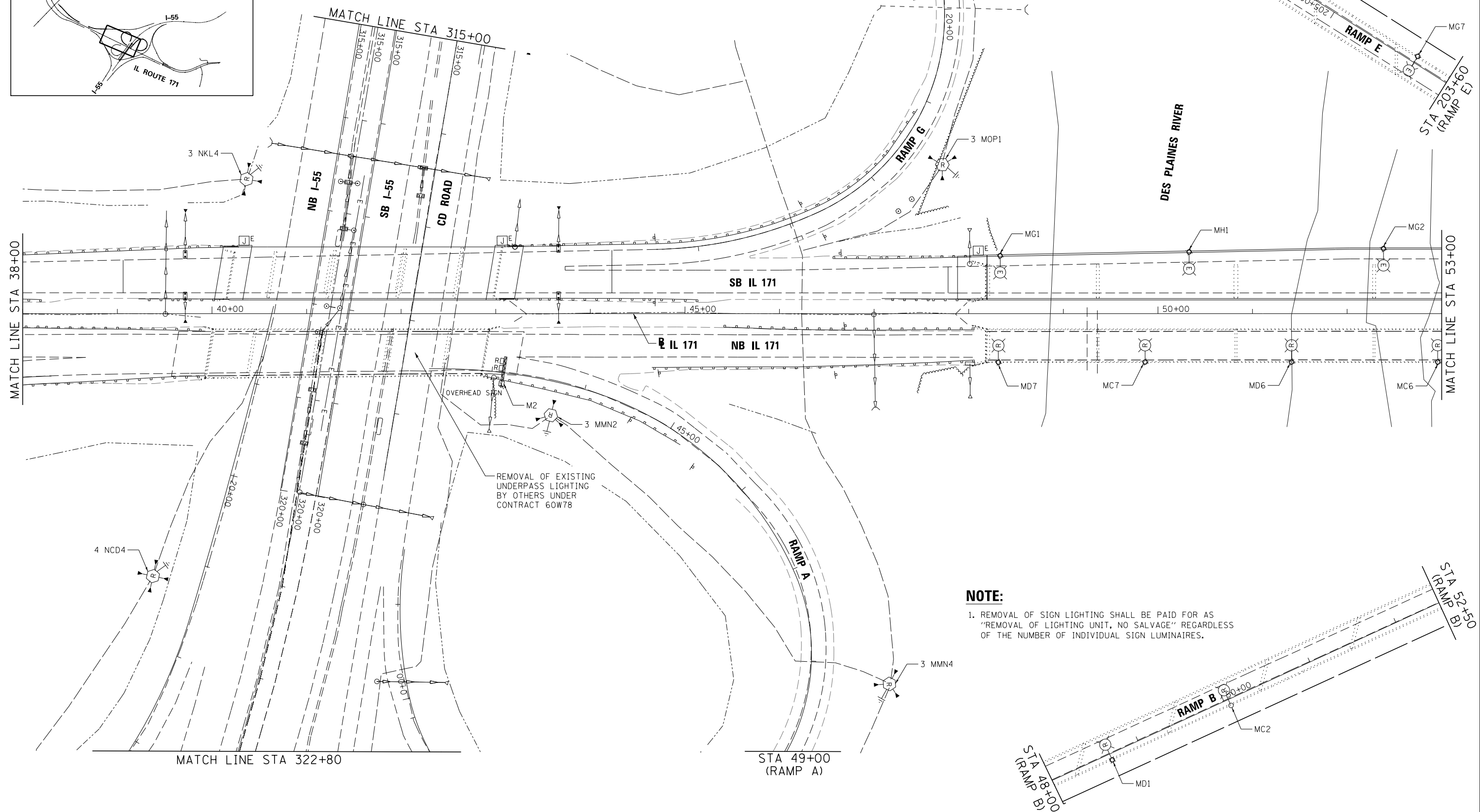
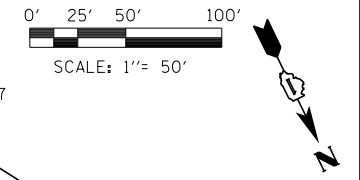
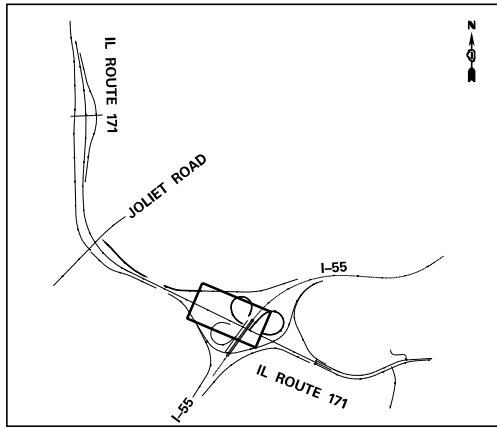


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 6 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	176
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



REMOVAL OF EXISTING UNDERPASS LIGHTING BY OTHERS UNDER CONTRACT 60W78

NOTE:
 1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.

FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-ex-light-NB-04.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

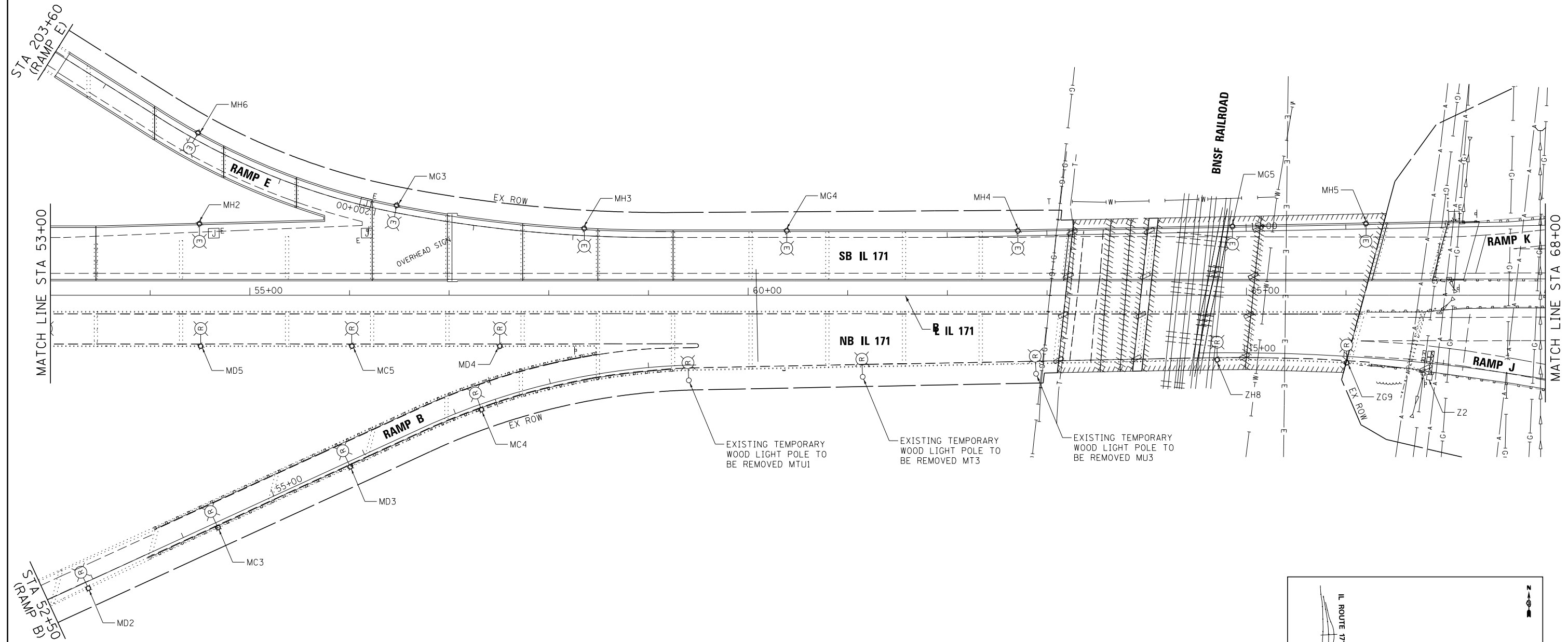
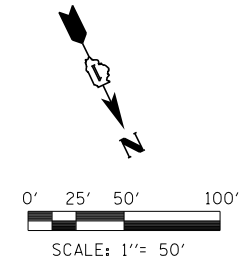


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND
 TEMPORARY LIGHTING PLAN

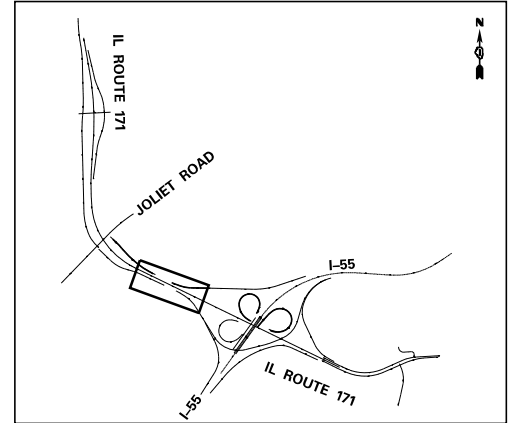
SCALE: 1"=50' SHEET 7 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	177
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.
2. REMOVAL OF AERIAL CABLE SHALL BE INCLUDED IN THE COST OF THE REMOVAL OF TEMPORARY LIGHTING UNIT.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-exlight-NB-05.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

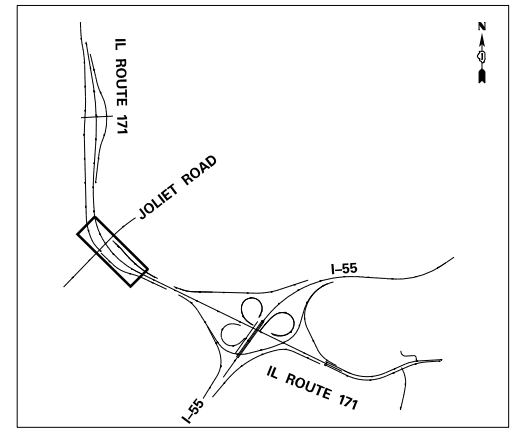
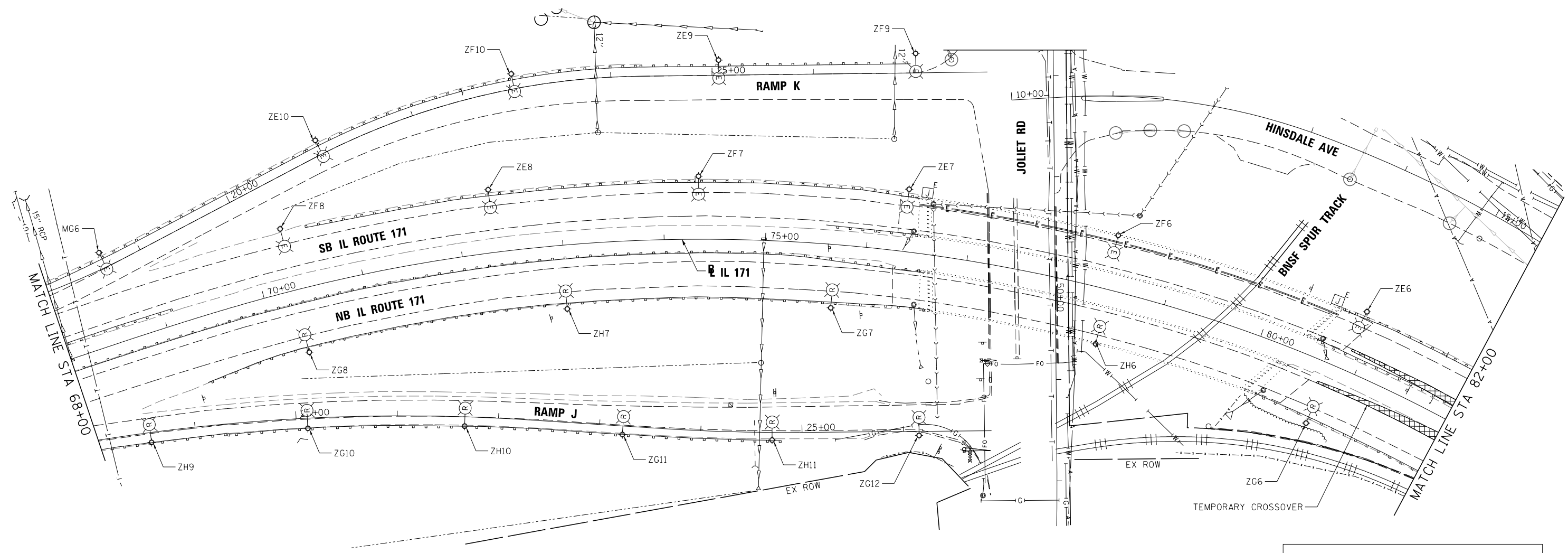
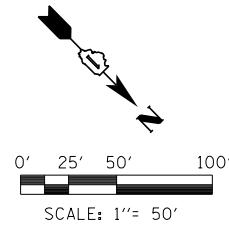


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 8 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	178
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



FILE NAME =	DESIGNED - GRR	REVISED -
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USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



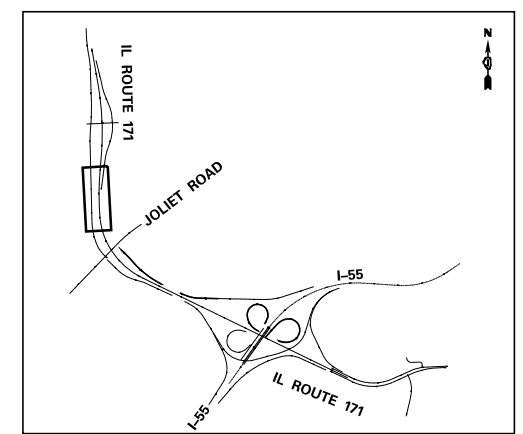
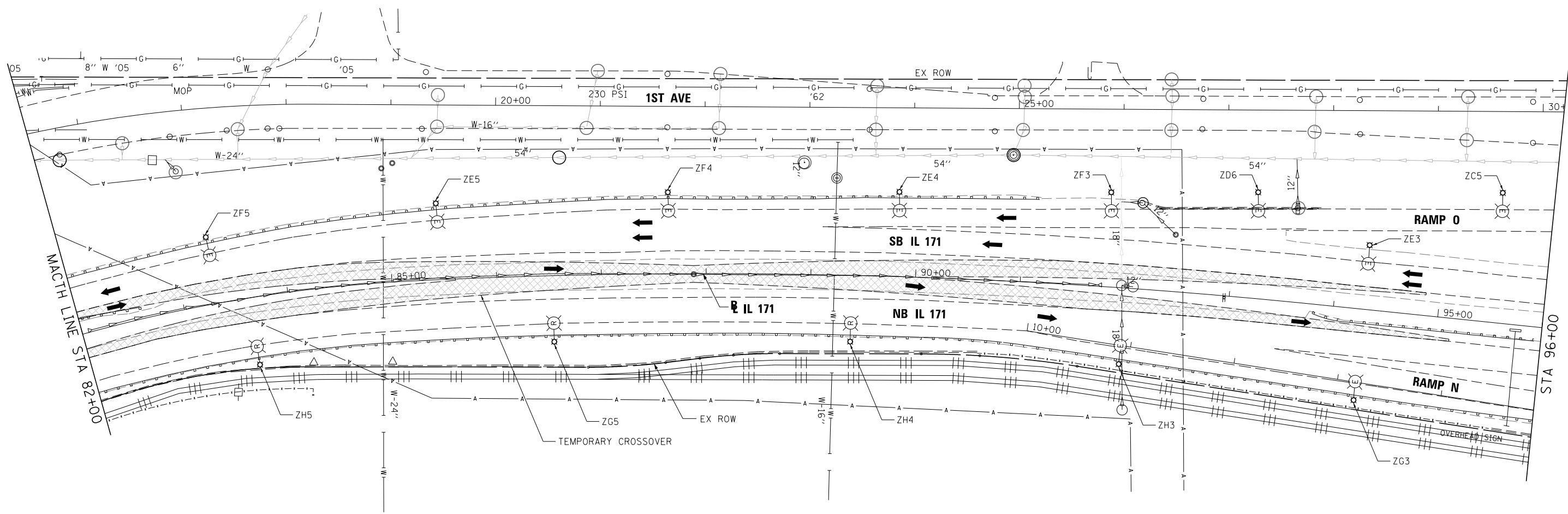
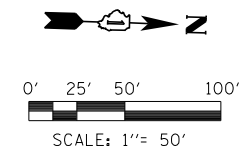
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 9 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	179
CONTRACT NO. 60W75				

ILLINOIS FED. AID PROJECT



FILE NAME =	DESIGNED - GRR	REVISED -
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USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

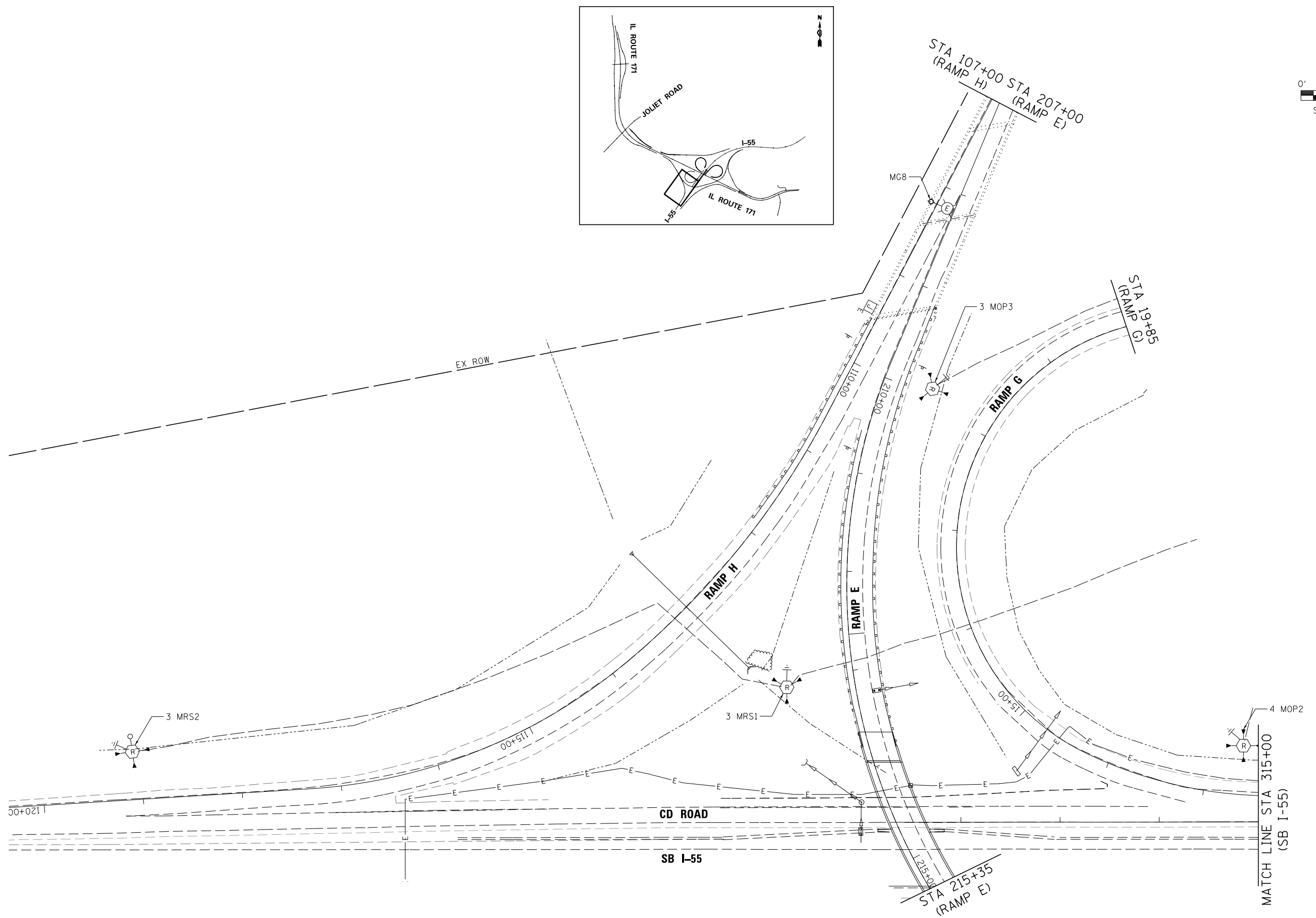
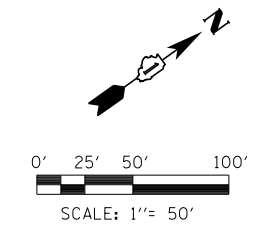
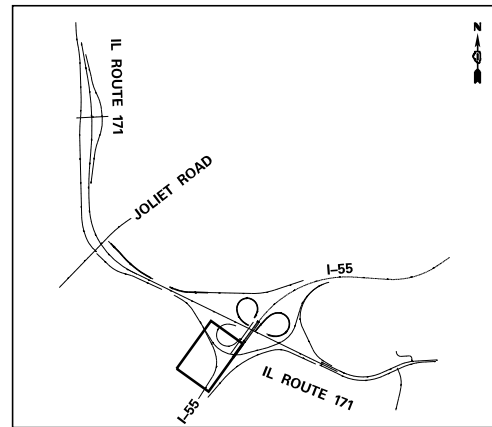


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 10 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	180
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sh1-155-exlight-NB-08.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

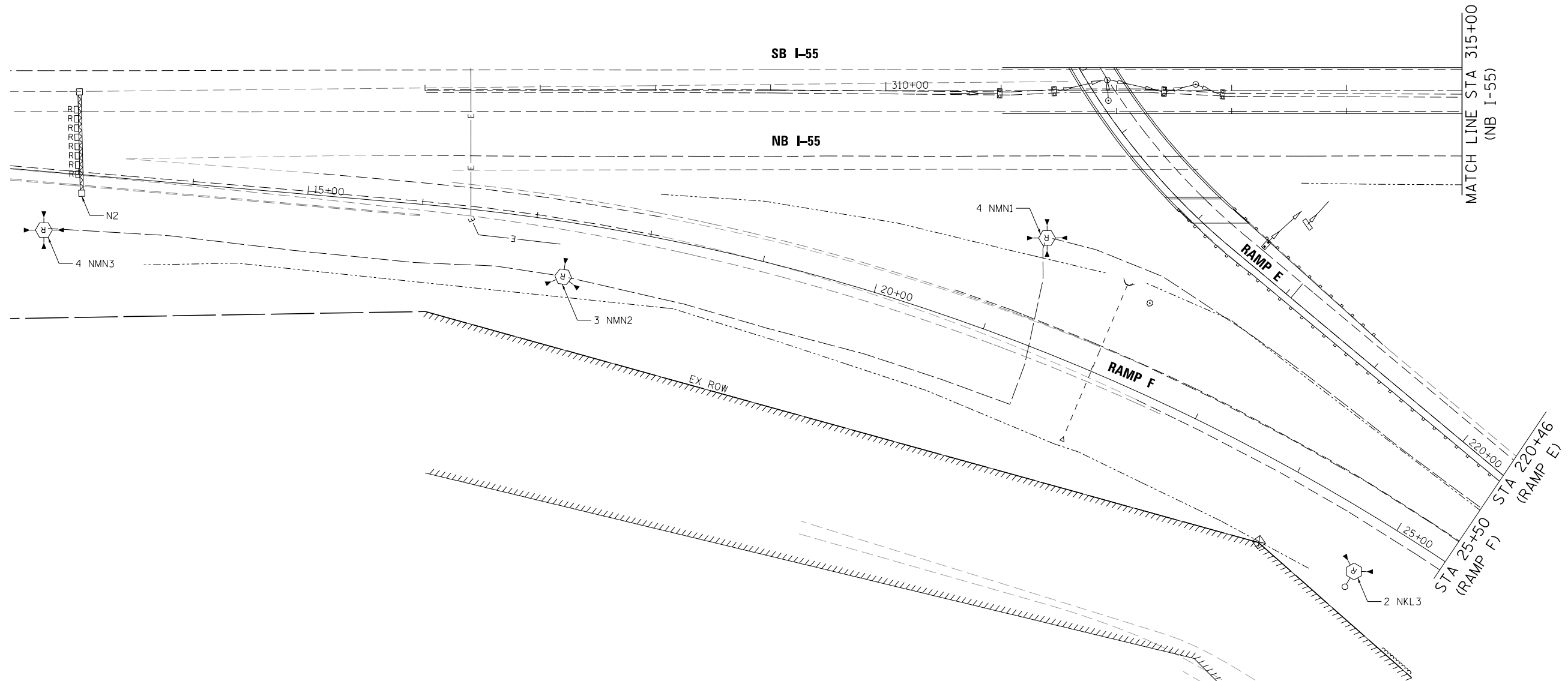
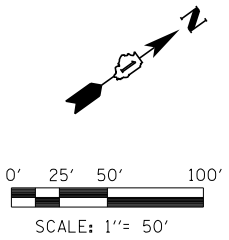


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN

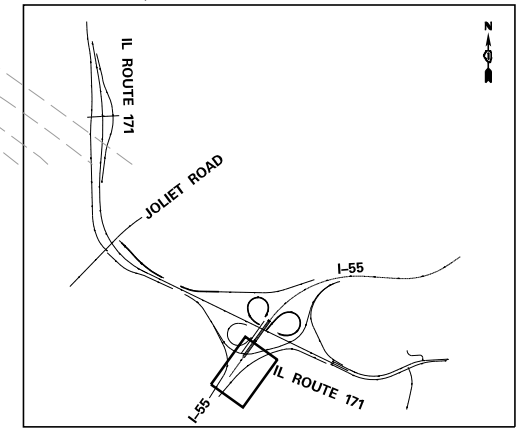
SCALE: 1"=50' SHEET 11 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	181
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTE:

1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.



FILE NAME =	DESIGNED - GRR	REVISED -
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PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

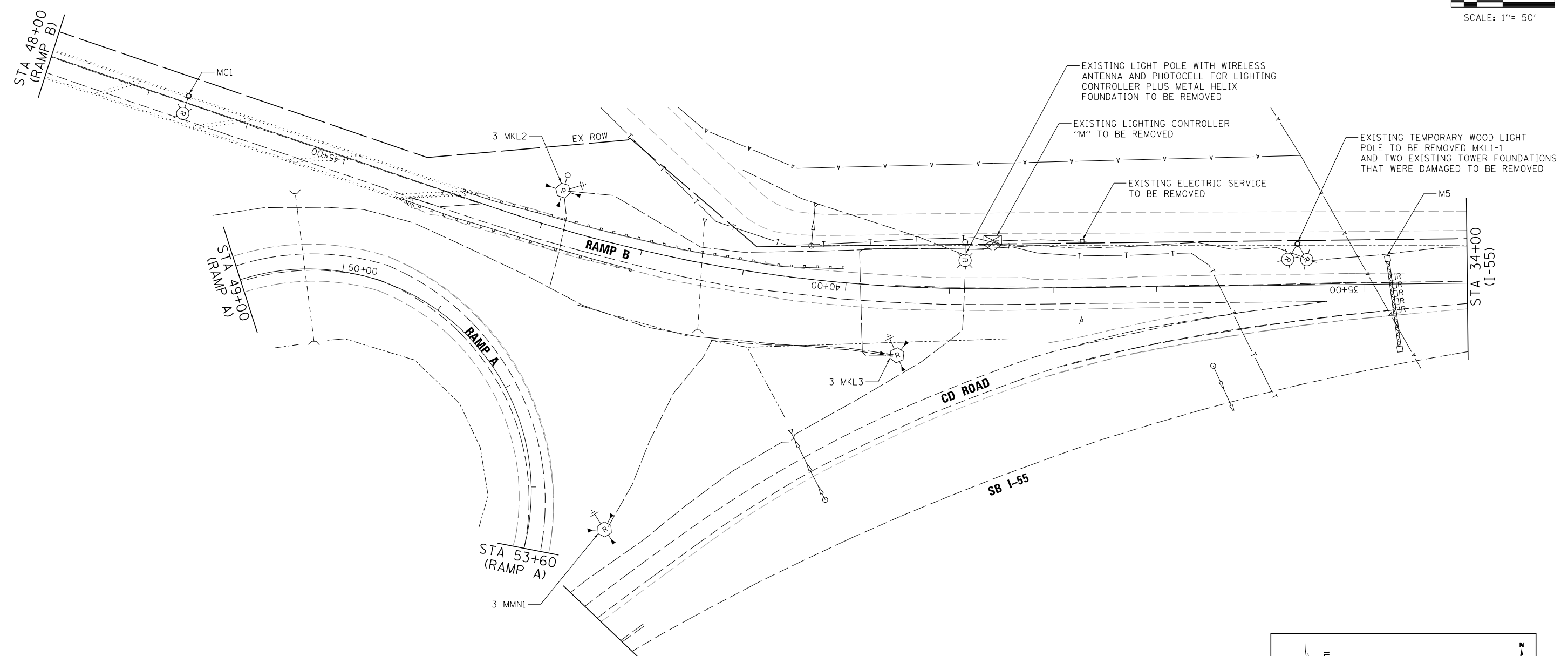
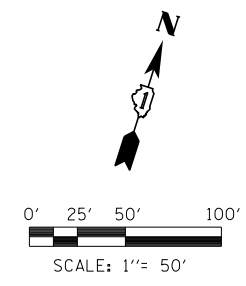


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

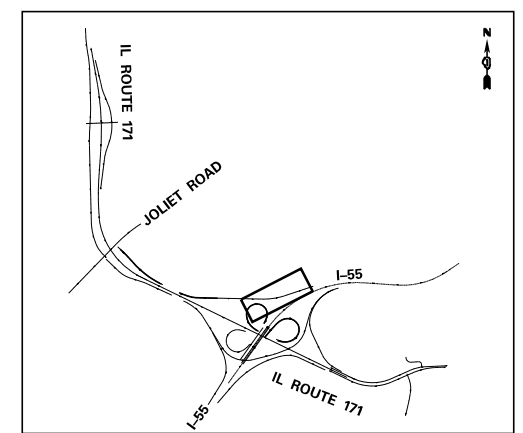
SCALE: 1"=50' SHEET 12 OF 61 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	182
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



NOTES:

1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.
2. REMOVAL OF AERIAL CABLE SHALL BE INCLUDED IN THE COST OF THE TEMPORARY LIGHTING UNIT.



FILE NAME =	DESIGNED - GRR	REVISED -
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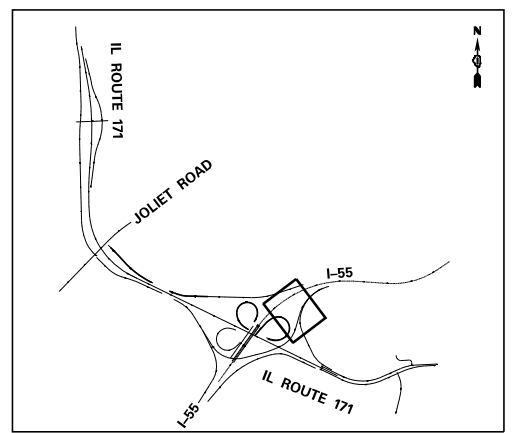
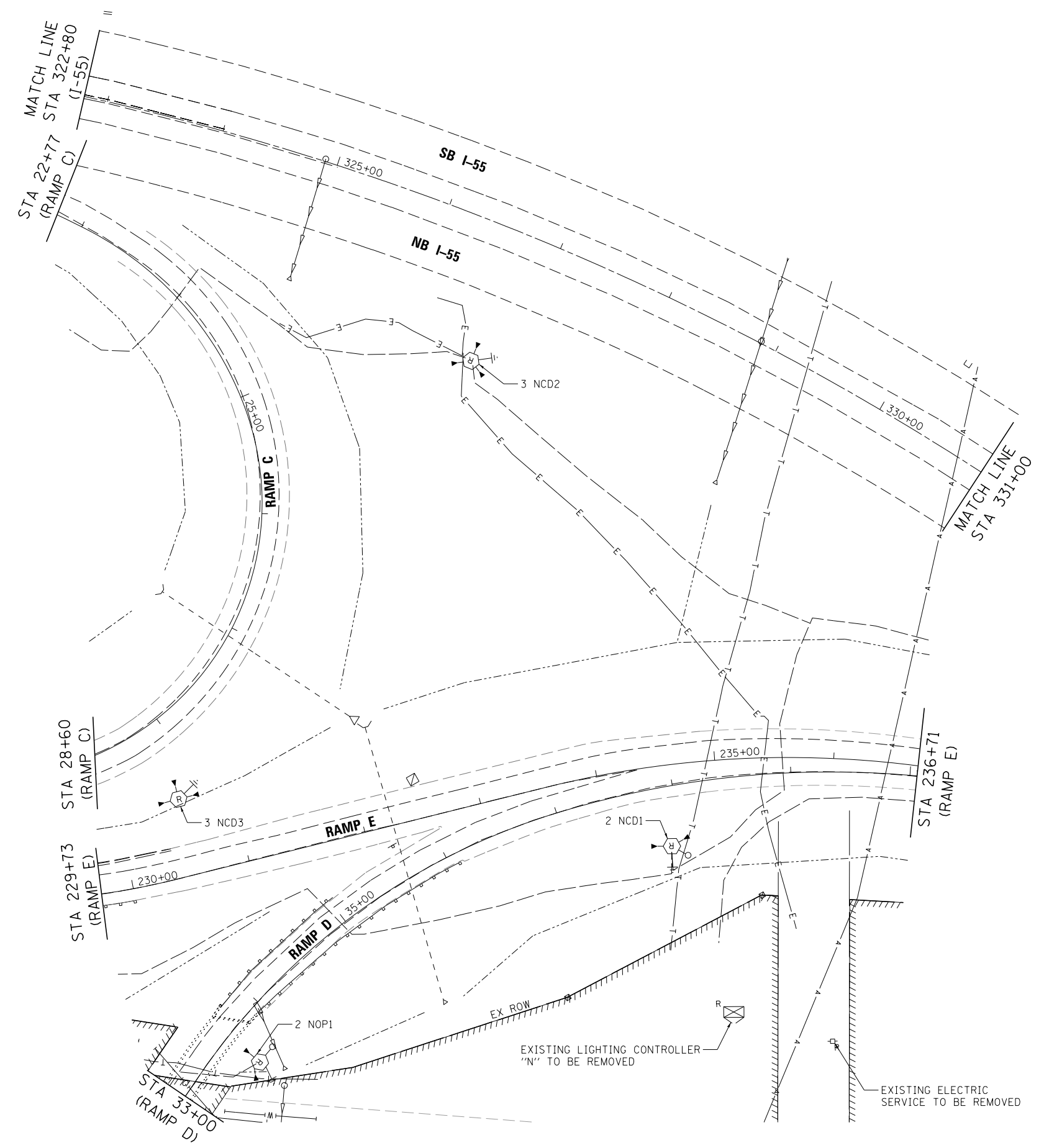
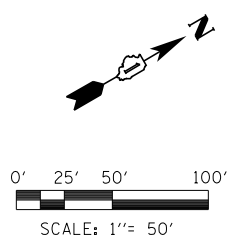


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 13 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	183
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



FILE NAME =	DESIGNED - GRR	REVISED -
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PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

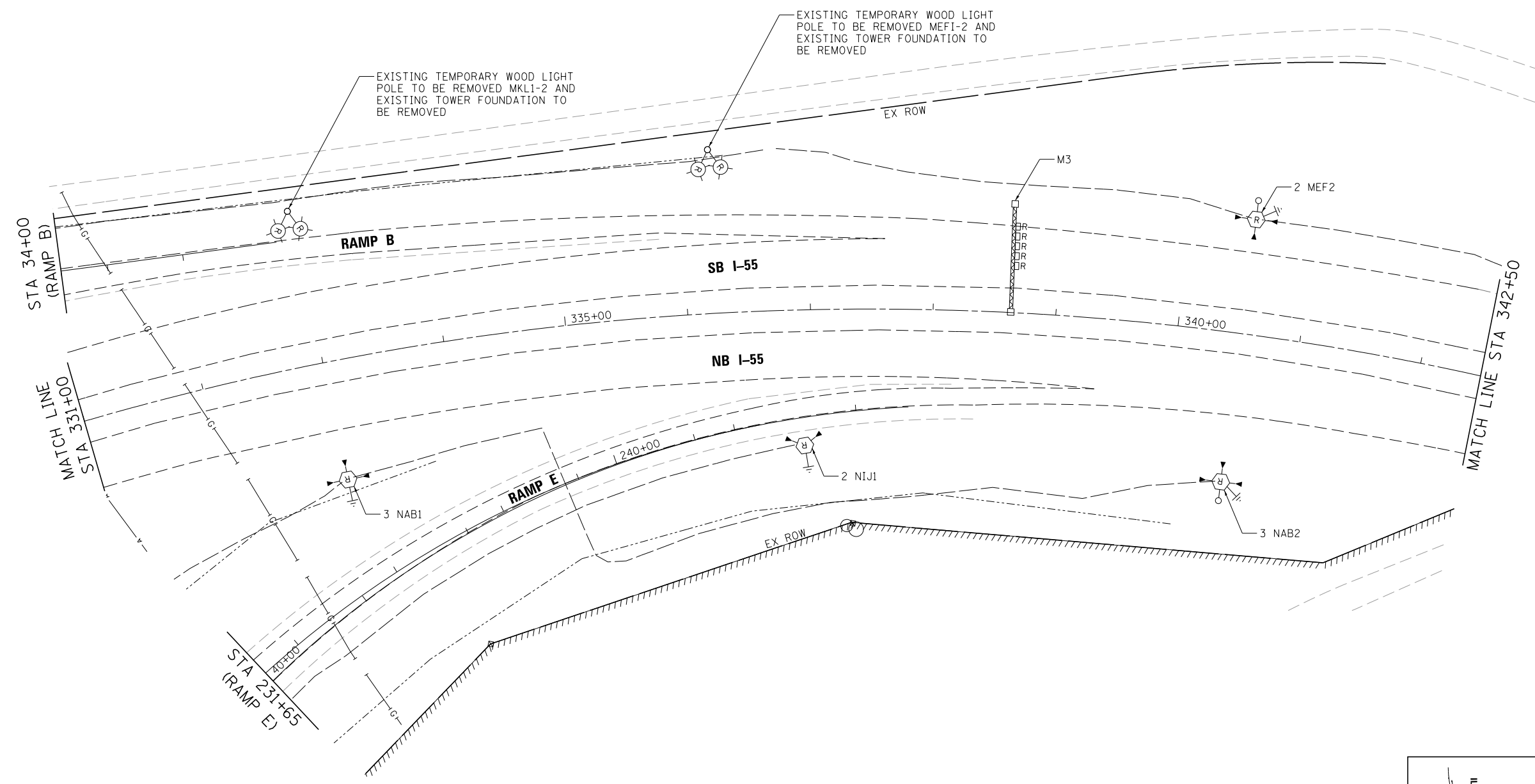
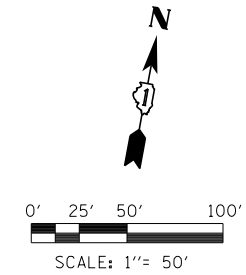


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

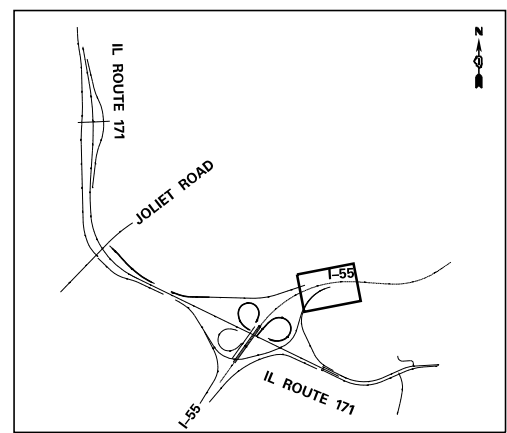
SCALE: 1"=50' SHEET 14 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	184
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.
2. REMOVAL OF AERIAL CABLE SHALL BE INCLUDED IN THE COST OF THE TEMPORARY LIGHTING UNIT.



FILE NAME =	DESIGNED - GRR	REVISED -
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PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

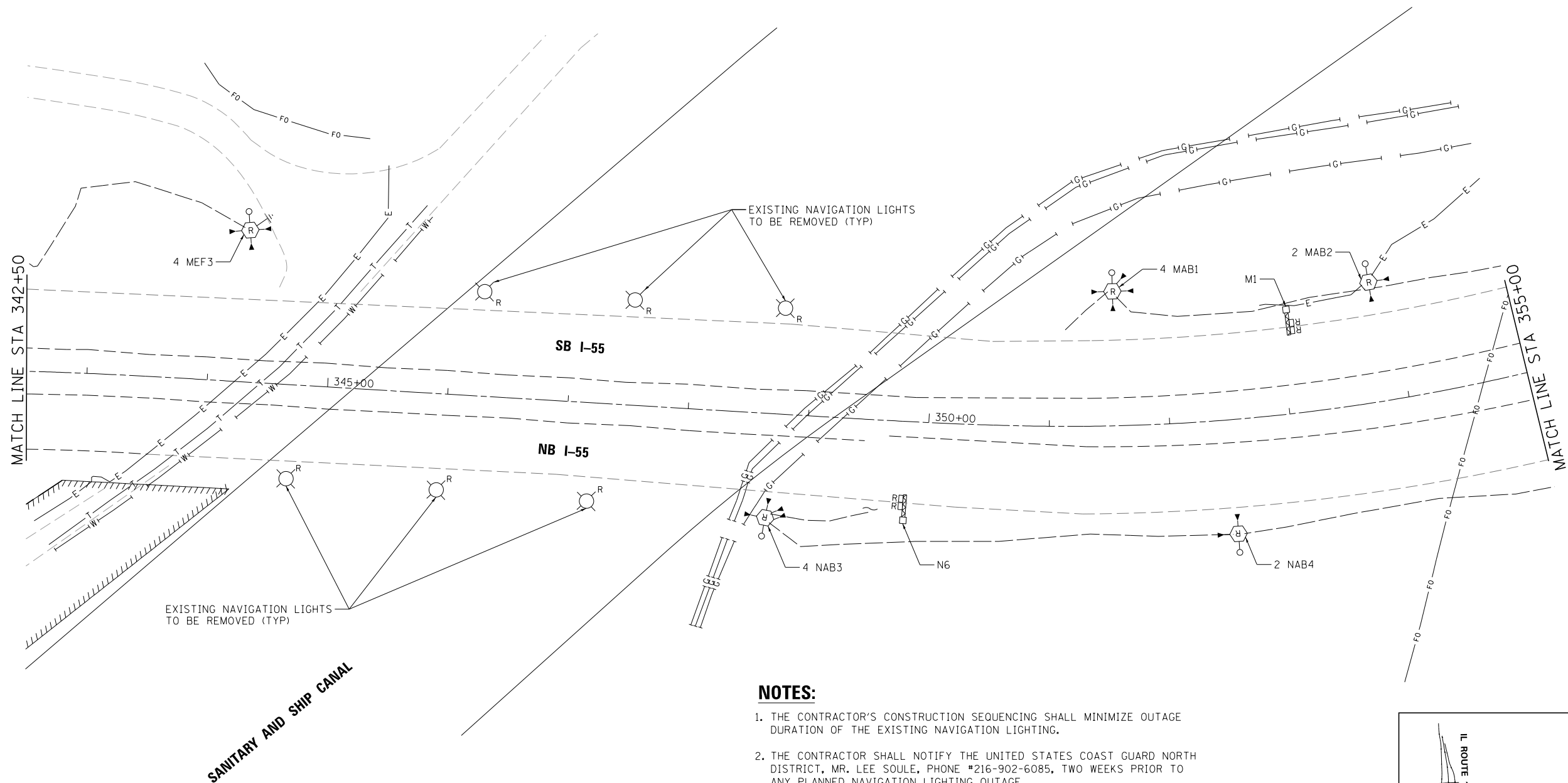
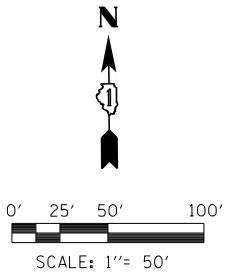


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

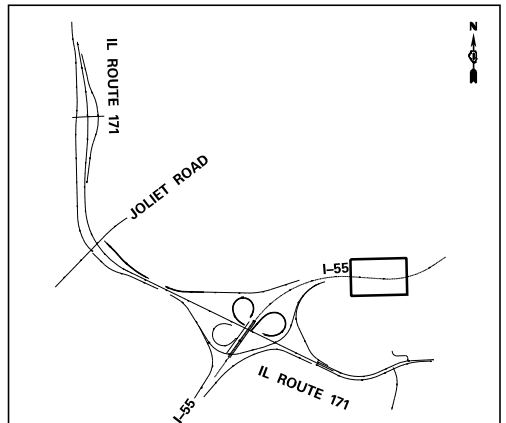
SCALE: 1"=50' SHEET 15 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	185
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



NOTES:

1. THE CONTRACTOR'S CONSTRUCTION SEQUENCING SHALL MINIMIZE OUTAGE DURATION OF THE EXISTING NAVIGATION LIGHTING.
2. THE CONTRACTOR SHALL NOTIFY THE UNITED STATES COAST GUARD NORTH DISTRICT, MR. LEE SOULE, PHONE *216-902-6085, TWO WEEKS PRIOR TO ANY PLANNED NAVIGATION LIGHTING OUTAGE.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY BATTERY OPERATED LED NAVIGATION LIGHTS IN PLACE OF THE EXISTING LIGHTS THAT WILL BE BE OUT OF SERVICE. THE TEMPORARY LIGHTS SHALL CONFORM TO ALL UNITED STATES COAST GUARD GUIDELINES AND STANDARDS FOR BRIDGE LIGHTING.
4. THE LIGHTS SHALL MATCH THE COLOR, INTENSITY, AND DISTRIBUTION OF THE EXISTING NAVIGATION LIGHTS. TEMPORARY LIGHTS SHALL BE IN SERVICE WHENEVER THE EXISTING LIGHTS ARE OUT OF SERVICE. THE COST OF TEMPORARY LED NAVIGATION LIGHTS SHALL BE INCLUDED IN THE PRICE OF THE ITEM "NAVIGATION LIGHTING SYSTEM".
5. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.



FILE NAME =	DESIGNED - GRR	REVISED -
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PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

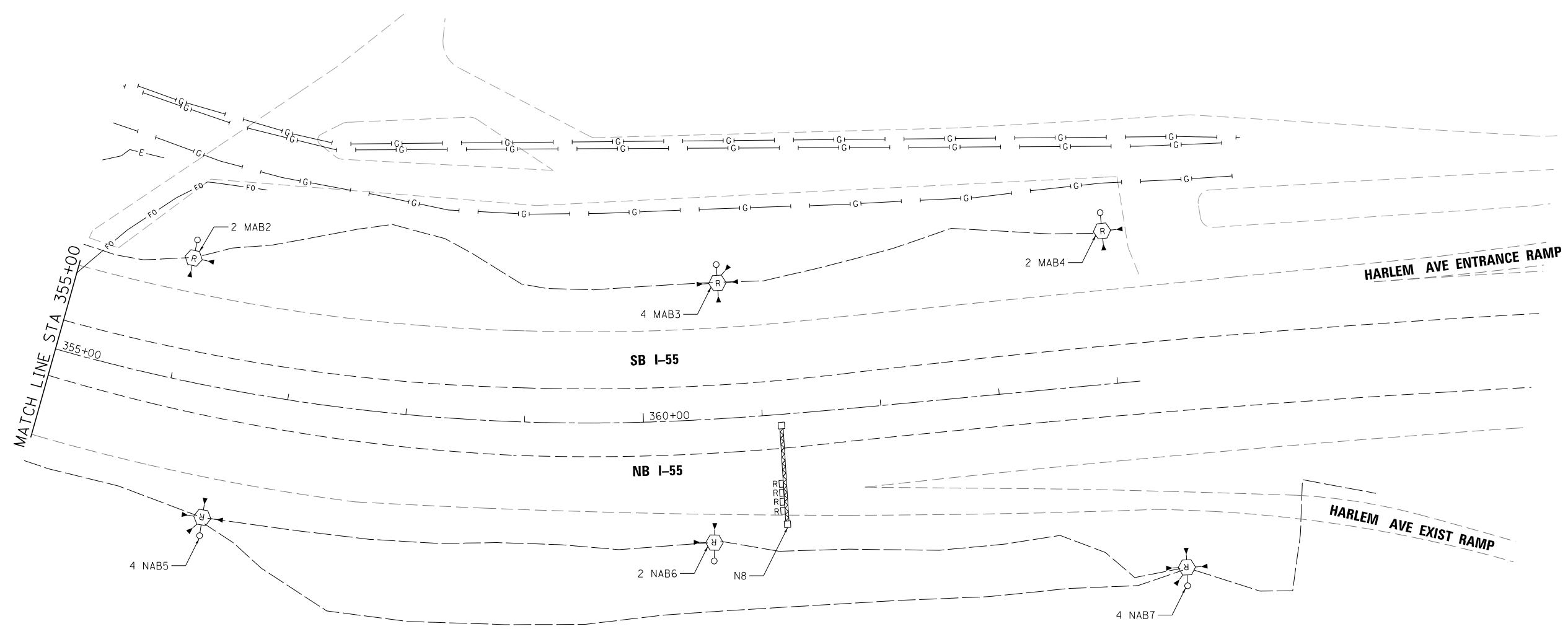
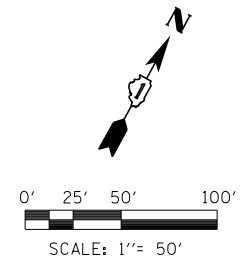


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

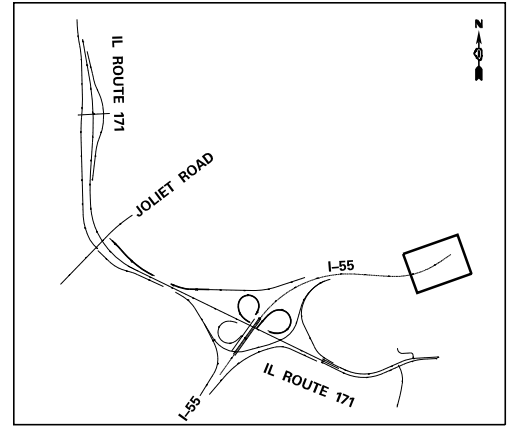
**EXISTING LIGHTING REMOVAL AND
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 16 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	186
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



NOTE:
 1. REMOVAL OF SIGN LIGHTING SHALL BE PAID FOR AS "REMOVAL OF LIGHTING UNIT, NO SALVAGE" REGARDLESS OF THE NUMBER OF INDIVIDUAL SIGN LUMINAIRES.



FILE NAME =	DESIGNED - GRR	REVISED -
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PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -

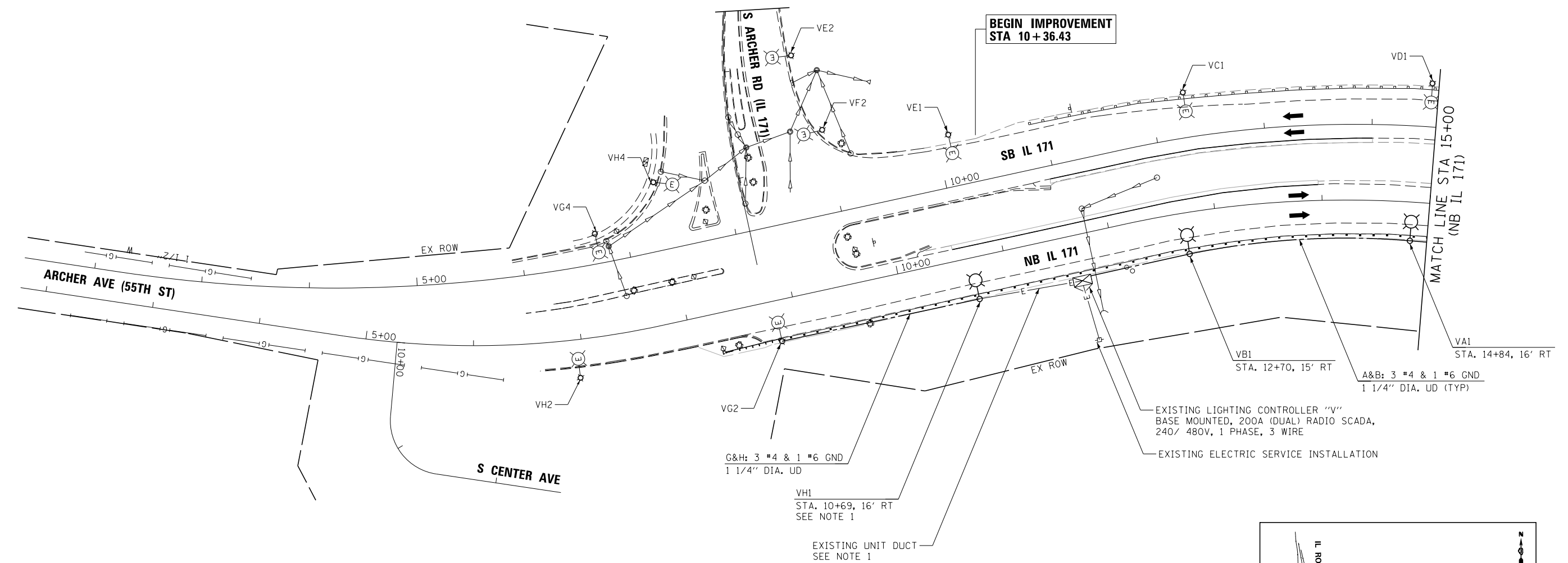
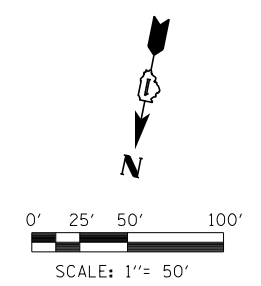


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

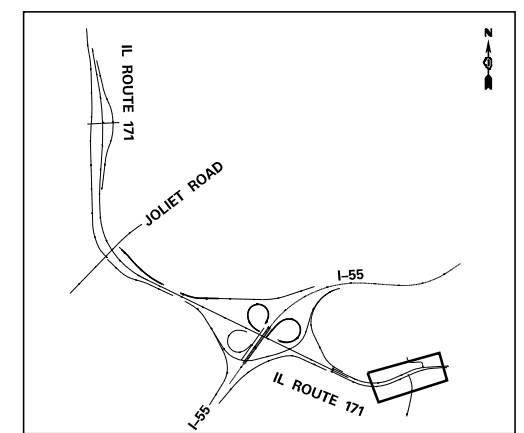
EXISTING LIGHTING REMOVAL AND
 TEMPORARY LIGHTING PLAN

SCALE: 1"=50' SHEET 17 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	187
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



NOTE:
 1. CONTRACTOR SHALL INTERCEPT THE EXISTING UNIT DUCT WITH CIRCUITS GH FROM CONTROLLER "V" AND CONNECT TO THE PROPOSED VH1 LIGHT POLE. THE EXISTING UNIT DUCT TO THE EXISTING VH1 POLE WAS RECENTLY INSTALLED IN THE SOUTHBOUND CONTRACT 60J16.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-prlight-NB-01.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



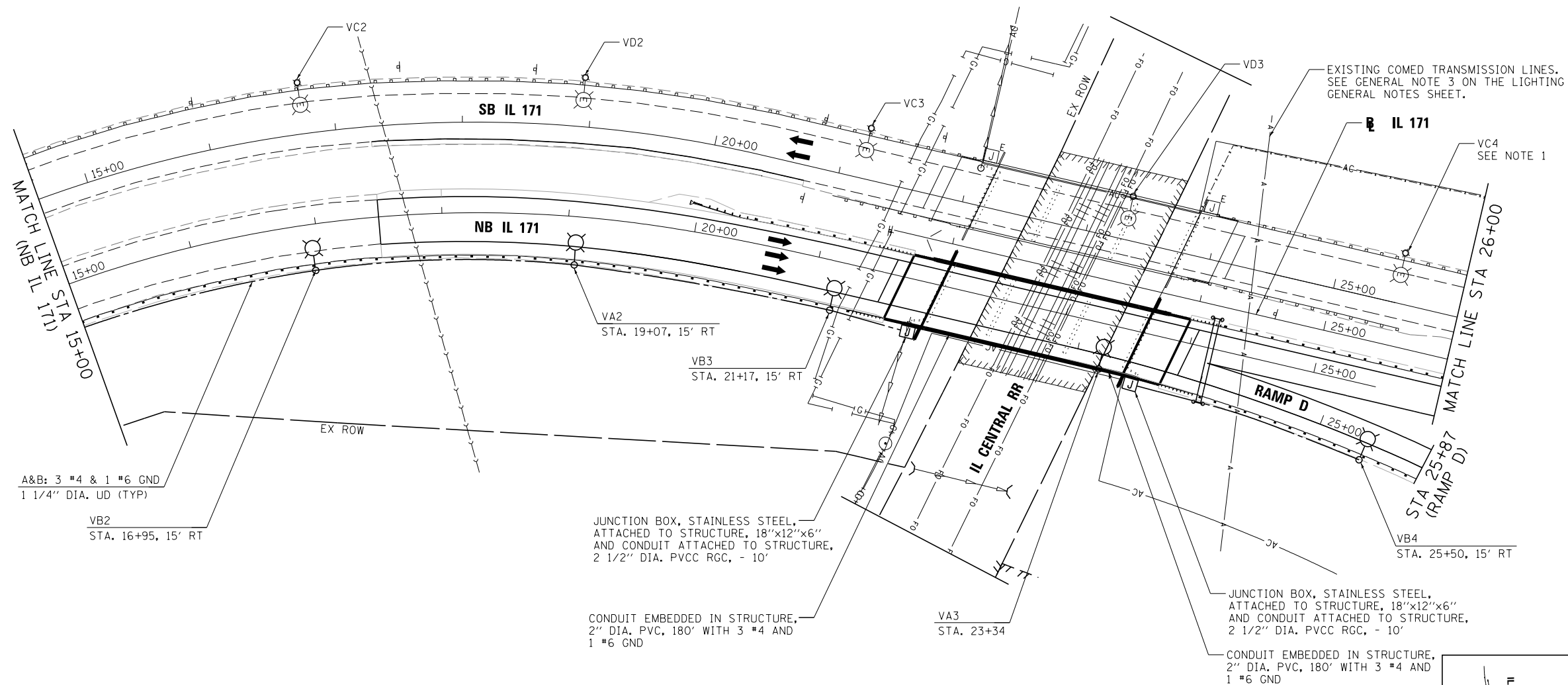
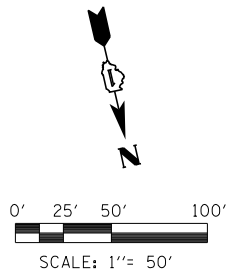
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
 IL 171

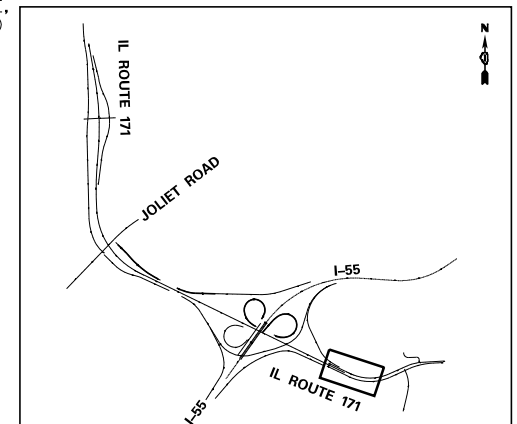
SCALE: 1"=50' SHEET 18 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	188
				CONTRACT NO. 60W75

ILLINOIS FED. AID PROJECT



NOTE:
 1. AFTER PROPOSED CIRCUITS MN FROM CONTROLLER "N" TO THE PROPOSED HIGH MAST TOWER 4 NMN5 AND EXISTING NAVIGATION LIGHTING WEST OF THIS POLE ARE INSTALLED, CONTRACTOR SHALL DISCONNECT EXISTING CONTROLLER "V" CIRCUITS CD FEED TO THE EXISTING HIGH MAST TOWER 3 VCD5 AND NAVIGATION LIGHTS AT THIS POLE. DISCONNECTION SHALL BE PERFORMED PRIOR TO CONNECTING THE EXISTING NAVIGATION LIGHTING TO CONTROLLER "N" CIRCUITS MN.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-pr-light-NB-02.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

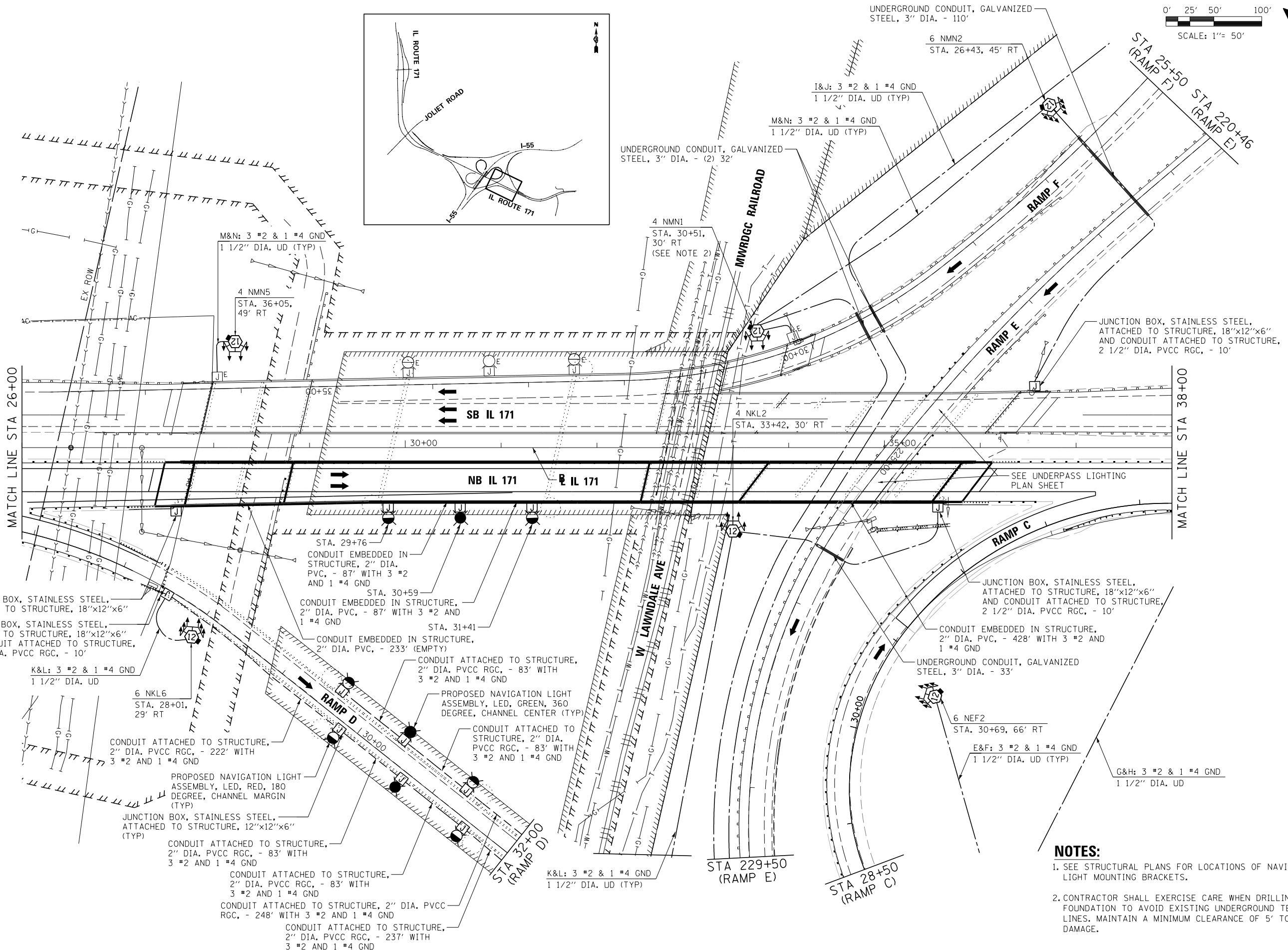
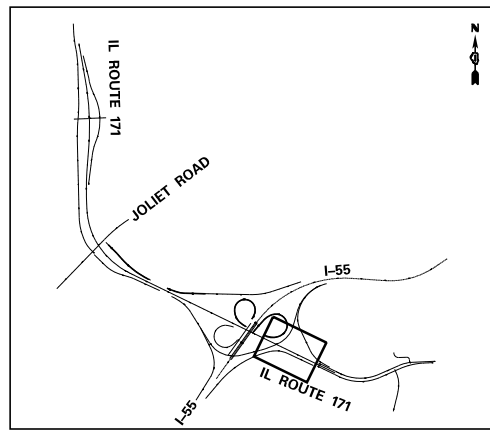
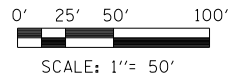


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
 IL 171

SCALE: 1"=50' SHEET 19 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	189
				CONTRACT NO. 60W75
ILLINOIS FED. AID PROJECT				



JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x6"
 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x6" AND CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA. PVCC RGC, - 10'

K&L: 3 #2 & 1 #4 GND
 1 1/2" DIA. UD

6 NKL6
 STA. 28+01, 29' RT

CONDUIT ATTACHED TO STRUCTURE, 2" DIA. PVCC RGC, - 222' WITH 3 #2 AND 1 #4 GND

PROPOSED NAVIGATION LIGHT ASSEMBLY, LED, RED, 180 DEGREE, CHANNEL MARGIN (TYP)

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x12"x6" (TYP)

CONDUIT ATTACHED TO STRUCTURE, 2" DIA. PVCC RGC, - 83' WITH 3 #2 AND 1 #4 GND

CONDUIT ATTACHED TO STRUCTURE, 2" DIA. PVCC RGC, - 83' WITH 3 #2 AND 1 #4 GND

CONDUIT ATTACHED TO STRUCTURE, 2" DIA. PVCC RGC, - 248' WITH 3 #2 AND 1 #4 GND

CONDUIT ATTACHED TO STRUCTURE, 2" DIA. PVCC RGC, - 237' WITH 3 #2 AND 1 #4 GND

STA. 29+76
 CONDUIT EMBEDDED IN STRUCTURE, 2" DIA. PVC, - 87' WITH 3 #2 AND 1 #4 GND

STA. 30+59
 CONDUIT EMBEDDED IN STRUCTURE, 2" DIA. PVC, - 87' WITH 3 #2 AND 1 #4 GND

STA. 31+41
 CONDUIT EMBEDDED IN STRUCTURE, 2" DIA. PVC, - 233' (EMPTY)

CONDUIT ATTACHED TO STRUCTURE, 2" DIA. PVCC RGC, - 83' WITH 3 #2 AND 1 #4 GND

PROPOSED NAVIGATION LIGHT ASSEMBLY, LED, GREEN, 360 DEGREE, CHANNEL CENTER (TYP)

CONDUIT ATTACHED TO STRUCTURE, 2" DIA. PVCC RGC, - 83' WITH 3 #2 AND 1 #4 GND

K&L: 3 #2 & 1 #4 GND
 1 1/2" DIA. UD (TYP)

I&J: 3 #2 & 1 #4 GND
 1 1/2" DIA. UD (TYP)

M&N: 3 #2 & 1 #4 GND
 1 1/2" DIA. UD (TYP)

UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. - 110'

6 NMN2
 STA. 26+43, 45' RT

UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. - (2) 32'

4 NMN1
 STA. 30+51, 30' RT
 (SEE NOTE 2)

4 NKL2
 STA. 33+42, 30' RT

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"x12"x6" AND CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA. PVCC RGC, - 10'

CONDUIT EMBEDDED IN STRUCTURE, 2" DIA. PVC, - 428' WITH 3 #2 AND 1 #4 GND

UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. - 33'

6 NEF2
 STA. 30+69, 66' RT

E&F: 3 #2 & 1 #4 GND
 1 1/2" DIA. UD (TYP)

G&H: 3 #2 & 1 #4 GND
 1 1/2" DIA. UD

NOTES:

- SEE STRUCTURAL PLANS FOR LOCATIONS OF NAVIGATION LIGHT MOUNTING BRACKETS.
- CONTRACTOR SHALL EXERCISE CARE WHEN DRILLING FOUNDATION TO AVOID EXISTING UNDERGROUND TELEPHONE LINES. MAINTAIN A MINIMUM CLEARANCE OF 5' TO AVOID DAMAGE.

FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-shr-IL171-pr-light-NB-03.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

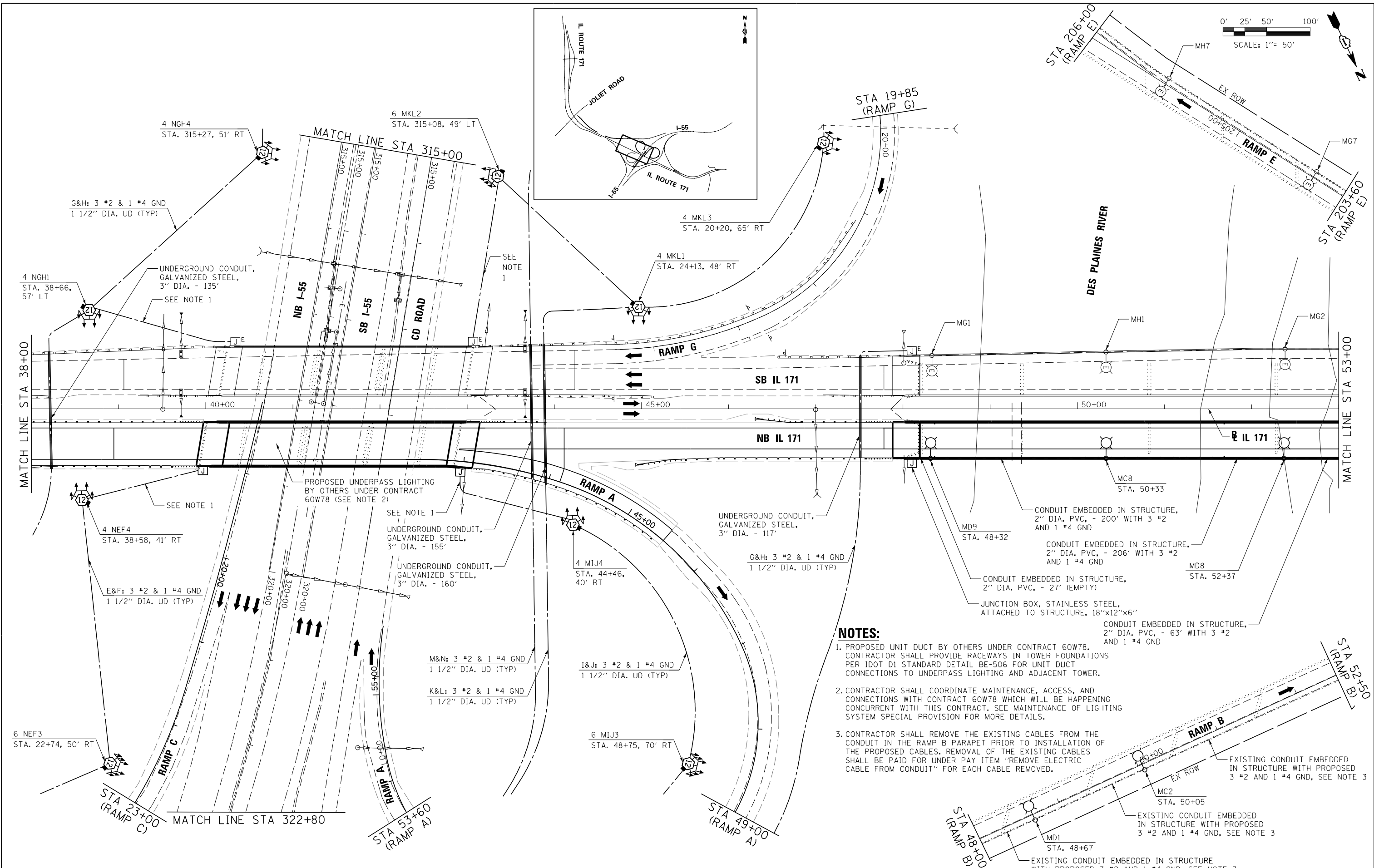


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
 IL 171**

SCALE: 1"=50' SHEET 20 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	190
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

- PROPOSED UNIT DUCT BY OTHERS UNDER CONTRACT 60W78. CONTRACTOR SHALL PROVIDE RACEWAYS IN TOWER FOUNDATIONS PER IDOT D1 STANDARD DETAIL BE-506 FOR UNIT DUCT CONNECTIONS TO UNDERPASS LIGHTING AND ADJACENT TOWER.
- CONTRACTOR SHALL COORDINATE MAINTENANCE, ACCESS, AND CONNECTIONS WITH CONTRACT 60W78 WHICH WILL BE HAPPENING CONCURRENT WITH THIS CONTRACT. SEE MAINTENANCE OF LIGHTING SYSTEM SPECIAL PROVISION FOR MORE DETAILS.
- CONTRACTOR SHALL REMOVE THE EXISTING CABLES FROM THE CONDUIT IN THE RAMP B PARAPET PRIOR TO INSTALLATION OF THE PROPOSED CABLES. REMOVAL OF THE EXISTING CABLES SHALL BE PAID FOR UNDER PAY ITEM "REMOVE ELECTRIC CABLE FROM CONDUIT" FOR EACH CABLE REMOVED.

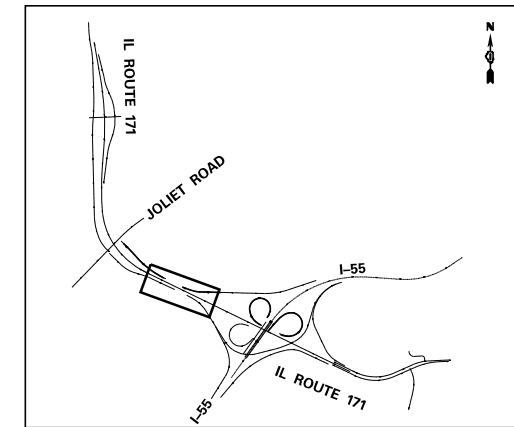
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...\\D160W75-sh-IL171-pr-light-NB-04.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -



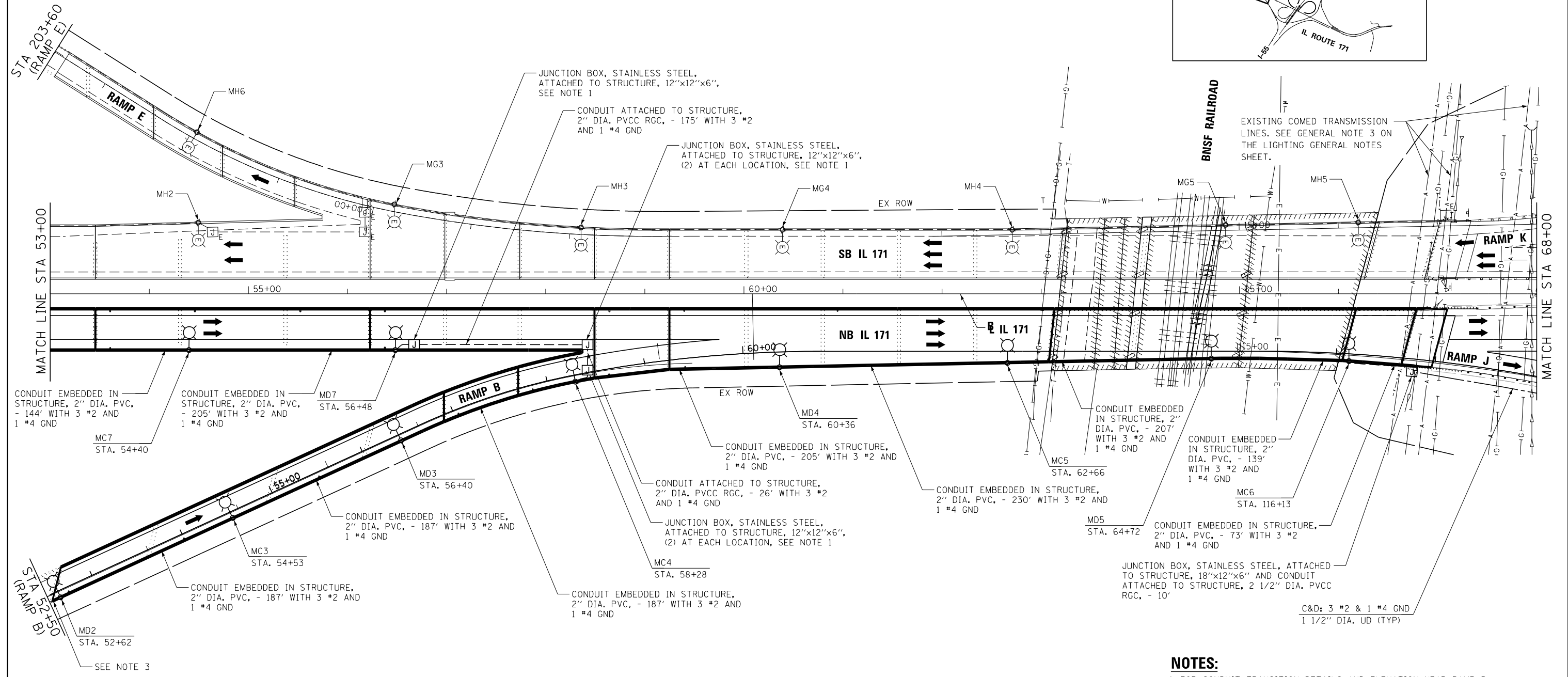
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN IL 171	
SCALE: 1"=50'	SHEET 21 OF 61 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	191
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



0' 25' 50' 100'
SCALE: 1"= 50'



- NOTES:**
- FOR CONDUIT TRANSITION DETAILS AND ELEVATION NEAR RAMP B GORE PIER AREA, SEE CONDUIT TRANSITION DETAILS SHEET.
 - CONDUITS AND JUNCTION BOXES ATTACHED TO THE BRIDGE DECK SHALL BE SUPPORTED USING STAINLESS STEEL CONTINUOUS CONCRETE INSERTS (CHANNELS) 12" LONG. INSERTS SHALL BE CAST IN BRIDGE DECK.
 - CONTRACTOR SHALL CONNECT THE EXISTING CONDUIT EMBEDDED IN THE EXISTING PARAPET WALL TO THE PROPOSED CONDUIT EMBEDDED IN THE NEW PARAPET WALL. CONTRACTOR SHALL USE CONDUIT REDUCER FITTING AS NECESSARY IF EXISTING CONDUIT SIZE IS DIFFERENT THAN PROPOSED.

FILE NAME =	DESIGNED - GRR	REVISED -
...D160W75-sh1-IL171-pr1ght-NB-05.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -



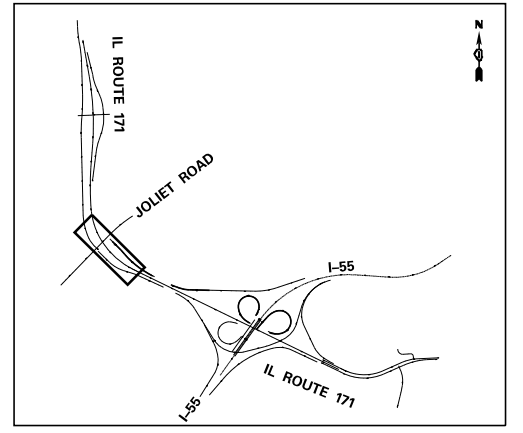
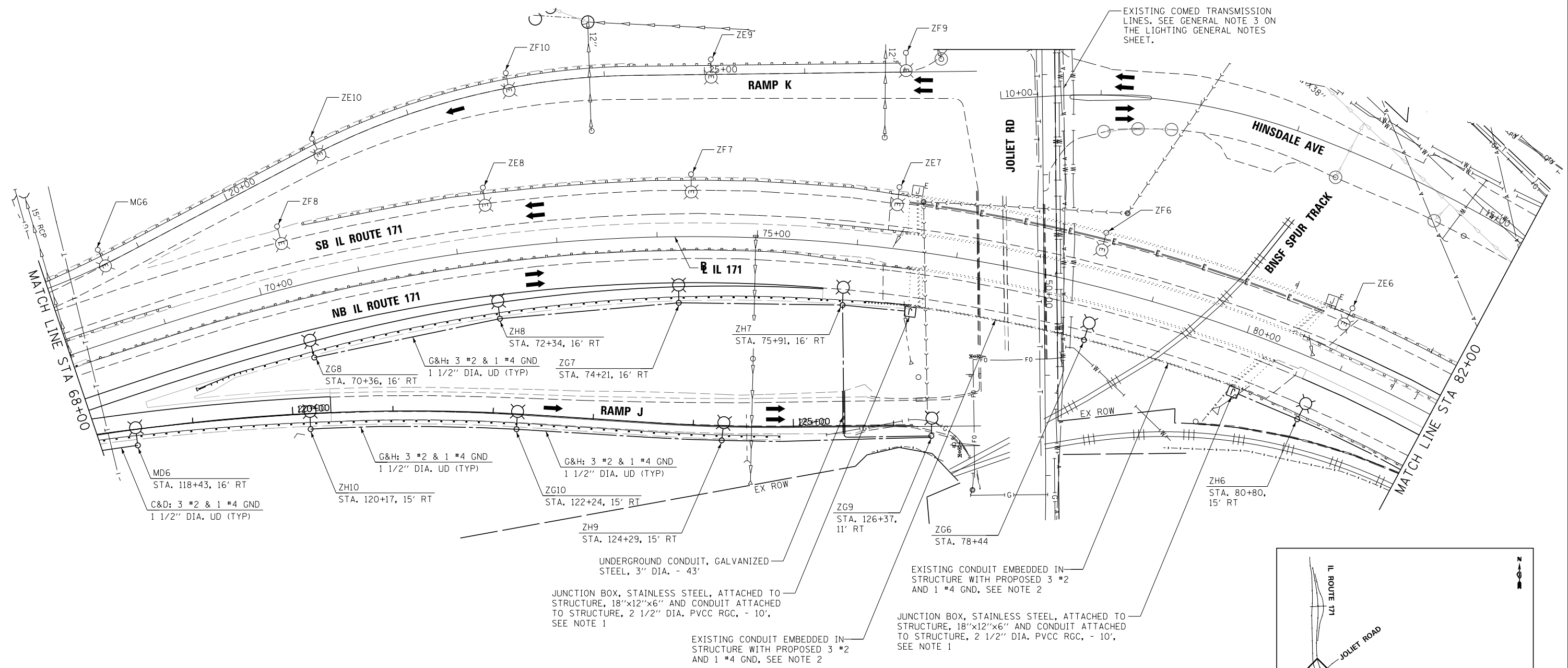
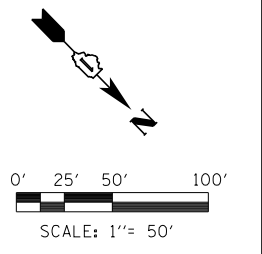
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
IL 171
SCALE: 1"=50' SHEET 22 OF 61 SHEETS STA. TO STA.

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	192
CONTRACT NO. 60W75				ILLINOIS FED. AID PROJECT

NOTES:

- CONTRACTOR SHALL REMOVE THE EXISTING "LB" FITTING, CONDUIT NIPPLE, AND CONDUIT RUNNING DOWN TO THE GROUND. THE COSTS FOR THIS REMOVAL WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX AND 2 1/2" DIA. PVCC RGC DOWN TO THE GROUND.
- CONTRACTOR SHALL REMOVE THE EXISTING CABLES FROM THE CONDUIT PRIOR TO INSTALLATION OF THE PROPOSED CABLES. REMOVAL OF THE EXISTING CABLES SHALL BE PAID FOR UNDER PAY ITEM "REMOVE ELECTRIC CABLE FROM CONDUIT" FOR EACH CABLE REMOVED.



FILE NAME =	DESIGNED - GRR	REVISED -
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USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

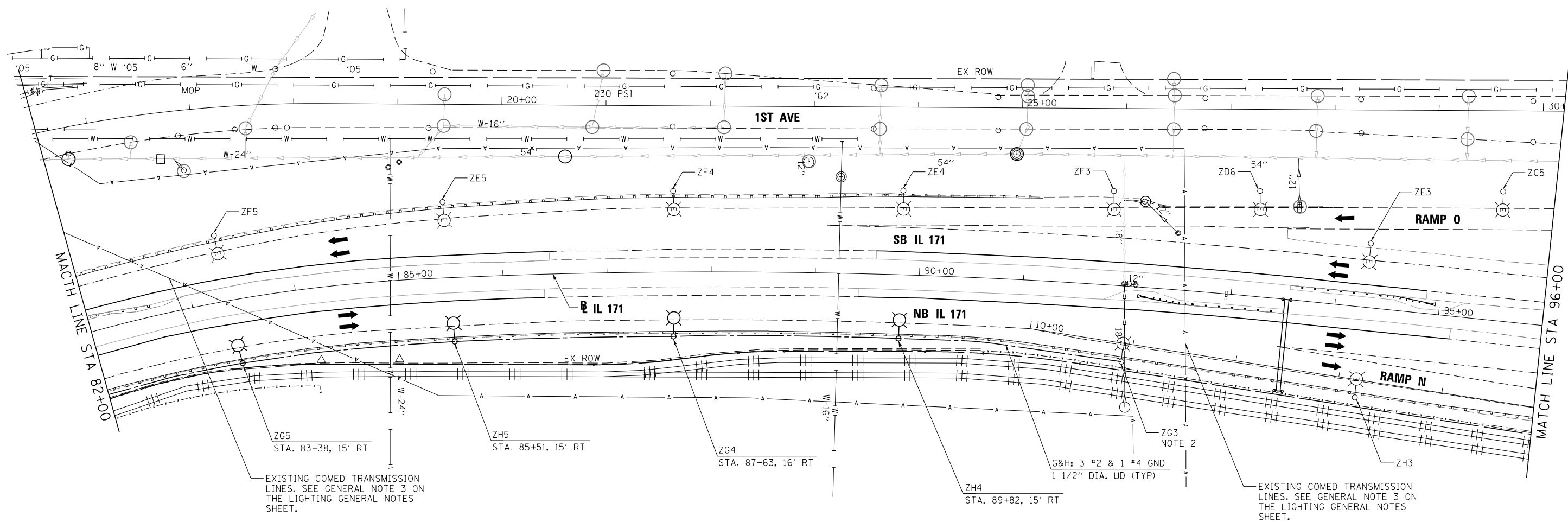
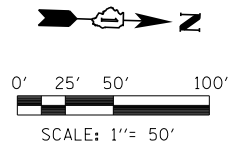


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
IL 171**

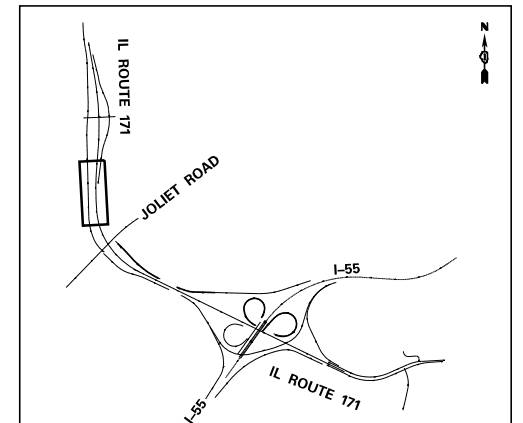
SCALE: 1"=50' SHEET 23 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	193
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



NOTES:

1. CONTROLLER "Z" IS LOCATED IN NORTHWEST QUADRANT OF 47TH STREET INTERCHANGE.
2. CONTRACTOR SHALL INSTALL UNIT DUCT TO THIS EXISTING LIGHT POLE THAT WAS INSTALLED UNDER CONTRACT 60J16. DISCONNECT EXISTING UNIT DUCT RUNNING SOUTH PRIOR TO CONNECTING PROPOSED UNIT DUCT. ANY CABLE SPLICES AND FUSES REQUIRED SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNIT DUCT.



FILE NAME =	DESIGNED - GRR	REVISED -
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PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

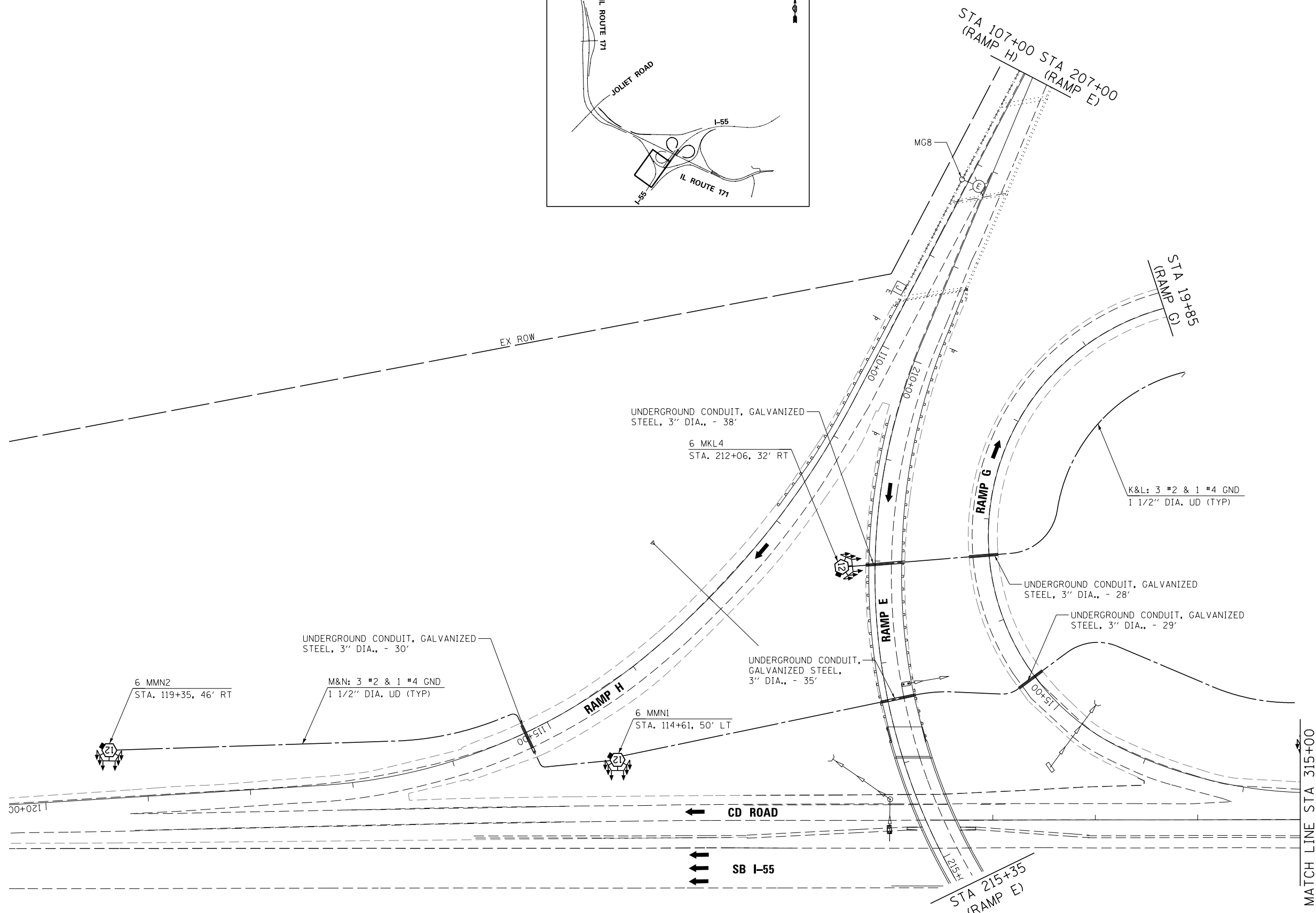
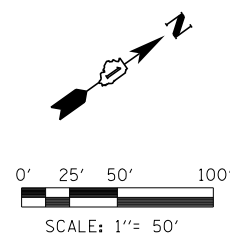
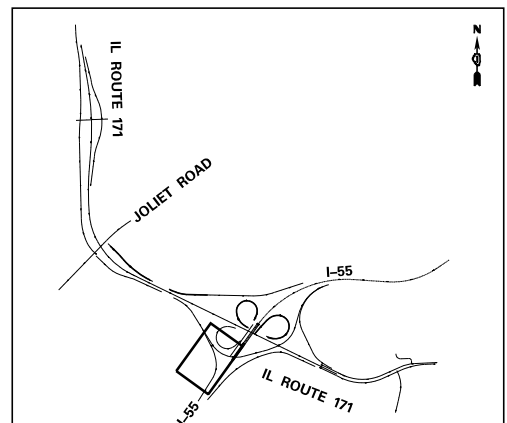


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
IL 171**

SCALE: 1"=50' SHEET 24 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	194
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



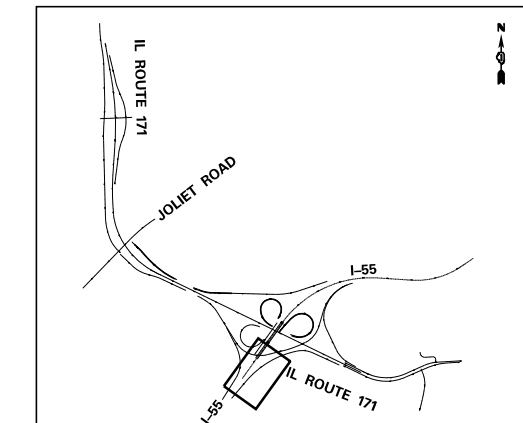
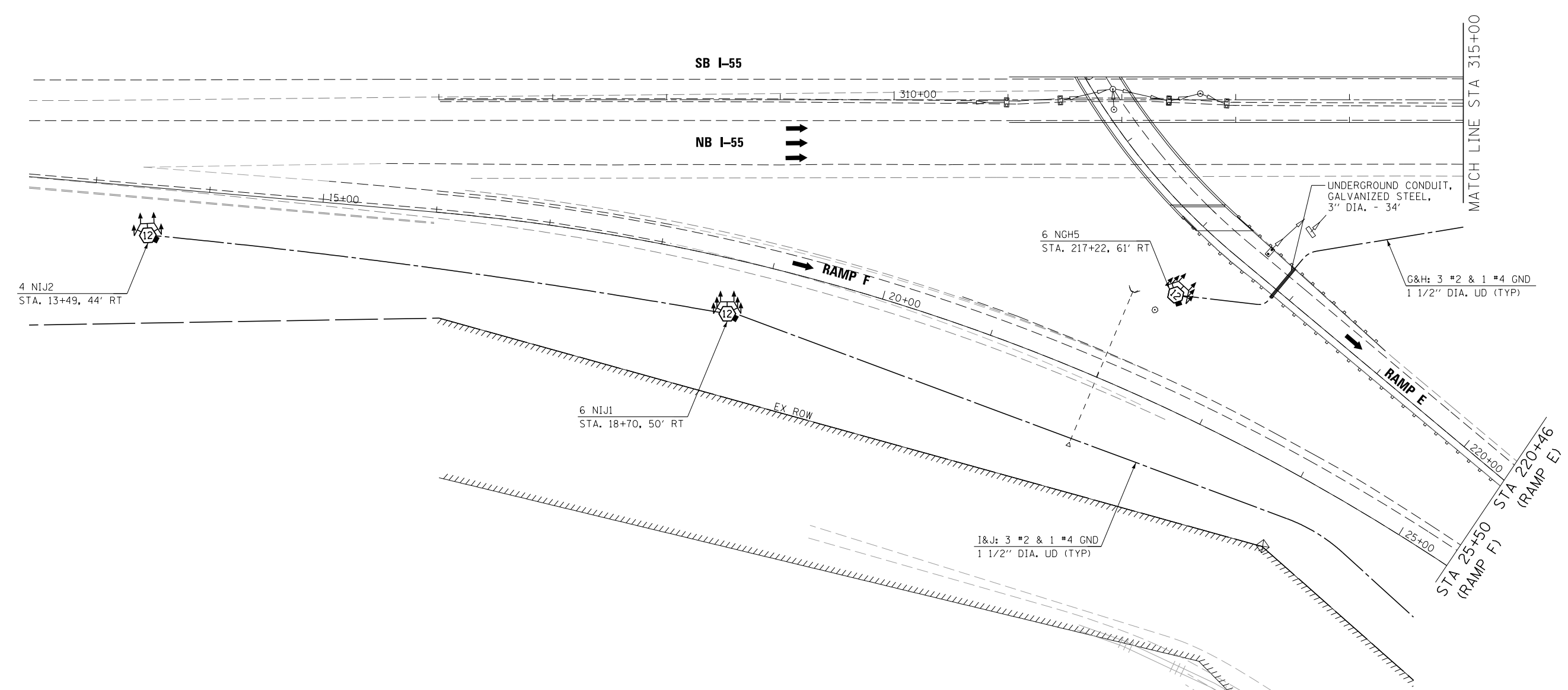
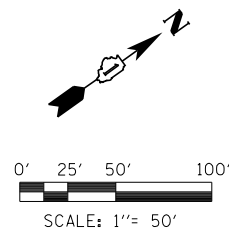
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USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN	
I-55	
SCALE: 1"=50'	SHEET 25 OF 61 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	195
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	



FILE NAME =	DESIGNED - GRR	REVISED -
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PLOT DATE = 6/17/2015	DATE - 6/12/2015	REVISED -



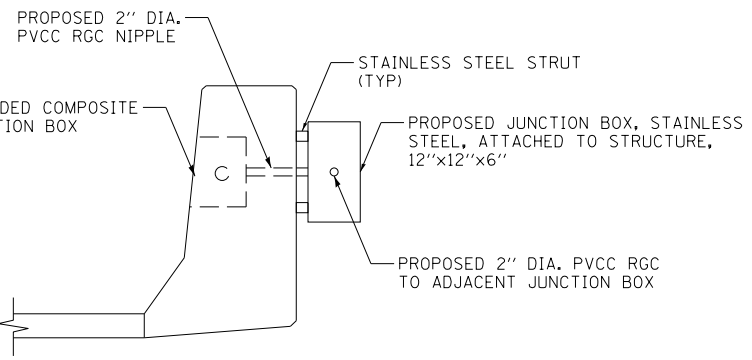
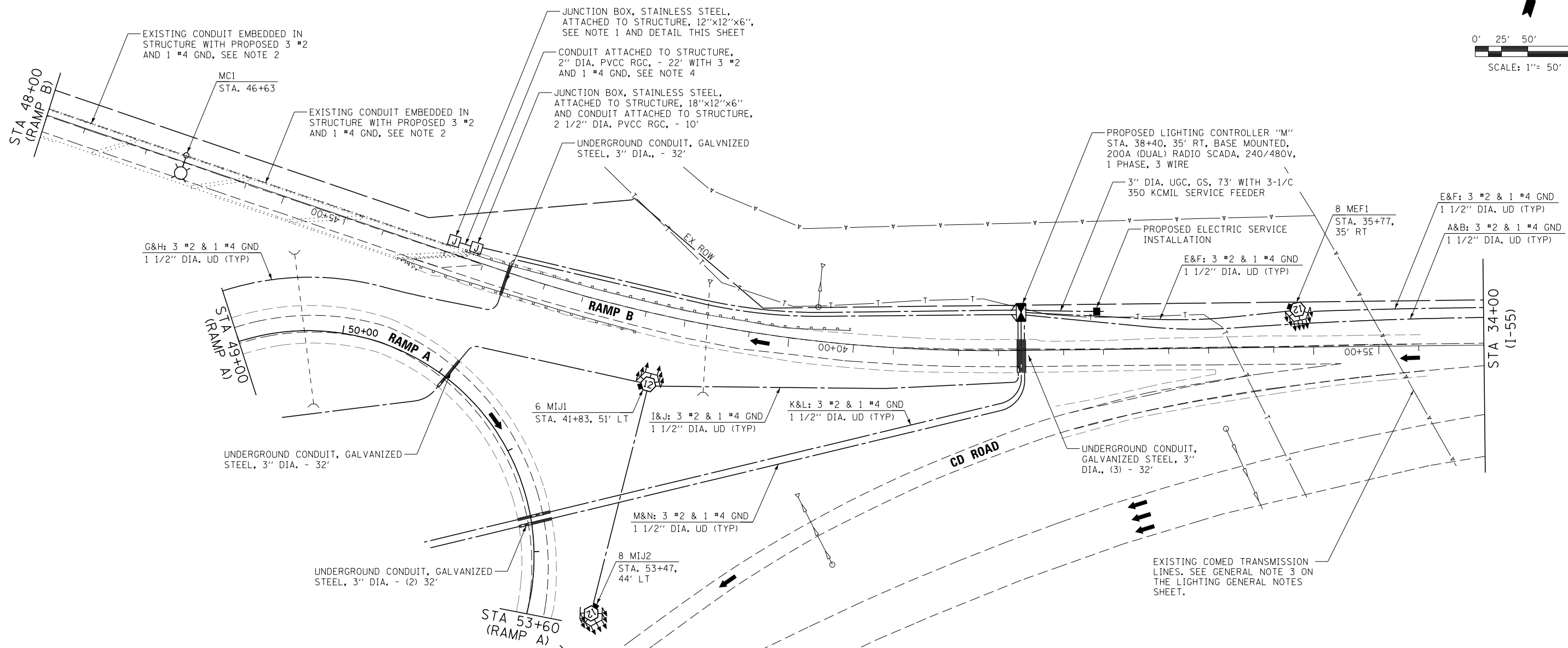
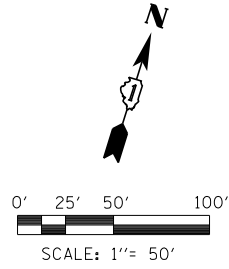
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-55**

SCALE: 1"=50' SHEET 26 OF 61 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	196
				CONTRACT NO. 60W75

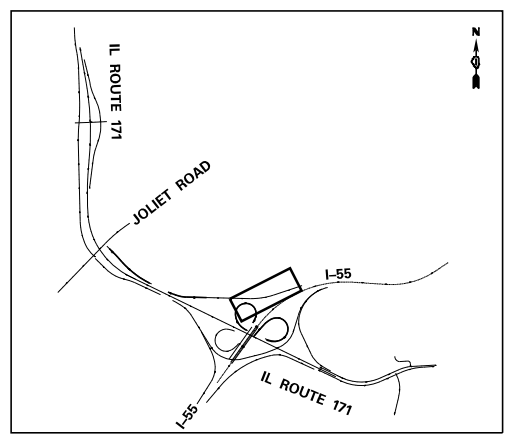
ILLINOIS FED. AID PROJECT



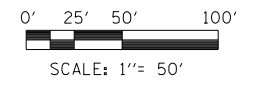
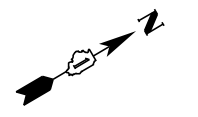
TRANSITION TO EXISTING EMBEDDED JUNCTION BOX DETAIL

NOTES:

1. CONTRACTOR SHALL REMOVE THE EXISTING "LB" FITTING, CONDUIT NIPPLE, AND CONDUIT RUNNING DOWN TO THE GROUND. THE COSTS FOR THIS REMOVAL WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX.
2. CONTRACTOR SHALL REMOVE THE EXISTING CABLES FROM THE CONDUIT PRIOR TO INSTALLATION OF THE PROPOSED CABLES. REMOVAL OF THE EXISTING CABLES SHALL BE PAID FOR UNDER PAY ITEM "REMOVE ELECTRIC CABLE FROM CONDUIT" FOR EACH CABLE REMOVED.
3. ROW FENCE REMOVAL AND REPAIR AT THE PROPOSED AND EXISTING LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE LIGHTING CONTROLLER WORK.
4. PROVIDE AND INSTALL PVCC RGC EXPANSION/DEFLECTION AXDX FITTING IN CONDUIT AT OPEN ABUTMENT JOINT.

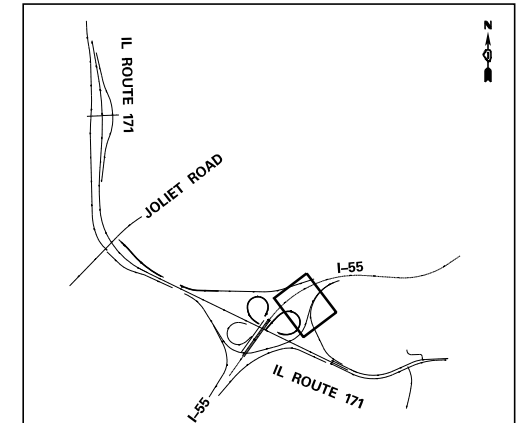
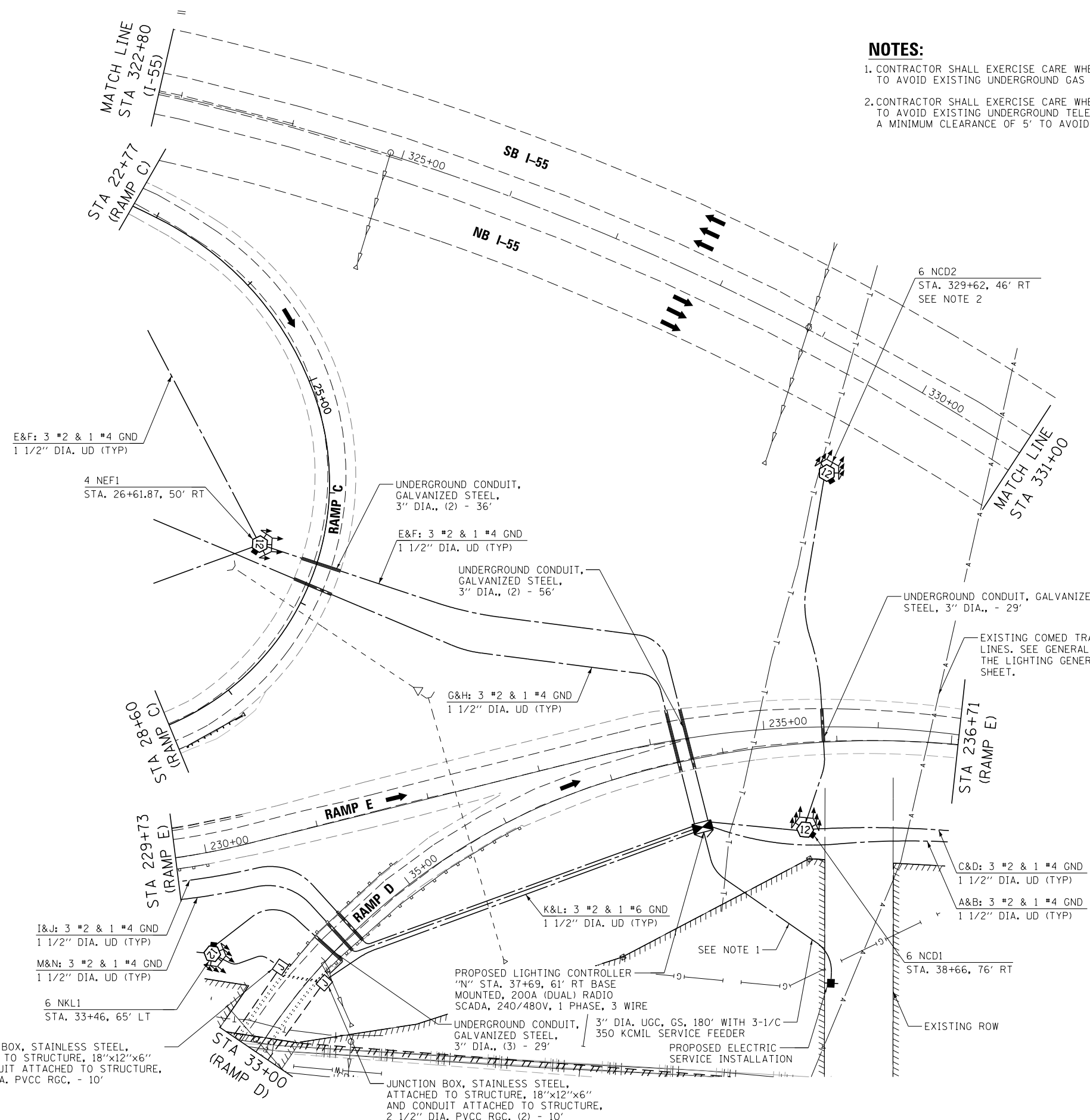


FILE NAME = ...\\D160W75-sh1-155-pr1ight-NB-10.dgn	DESIGNED - GRR	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN			F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 197	
USER NAME = jworthington	DRAWN - JLW	REVISED -			I-55			CONTRACT NO. 60W75					
CHECKED - GHT	DATE - 6/12/2015	REVISED -			SCALE: 1"=50'	SHEET 27 OF 61 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -											



NOTES:

1. CONTRACTOR SHALL EXERCISE CARE WHEN INSTALLING CONDUIT TO AVOID EXISTING UNDERGROUND GAS PIPELINE IN THIS AREA.
2. CONTRACTOR SHALL EXERCISE CARE WHEN DRILLING FOUNDATION TO AVOID EXISTING UNDERGROUND TELEPHONE LINES. MAINTAIN A MINIMUM CLEARANCE OF 5' TO AVOID DAMAGE.



FILE NAME =	DESIGNED - GRR	REVISED -
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USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -

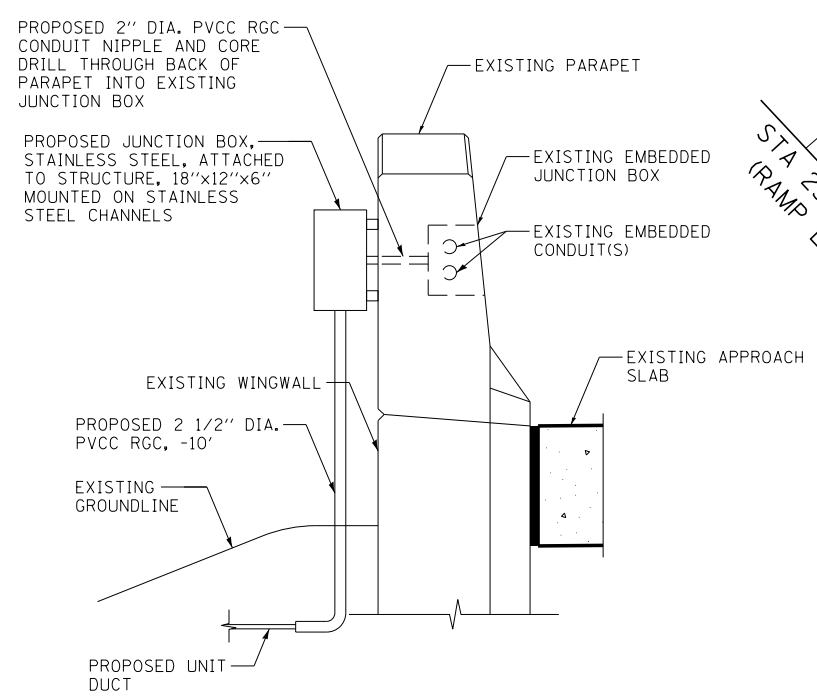
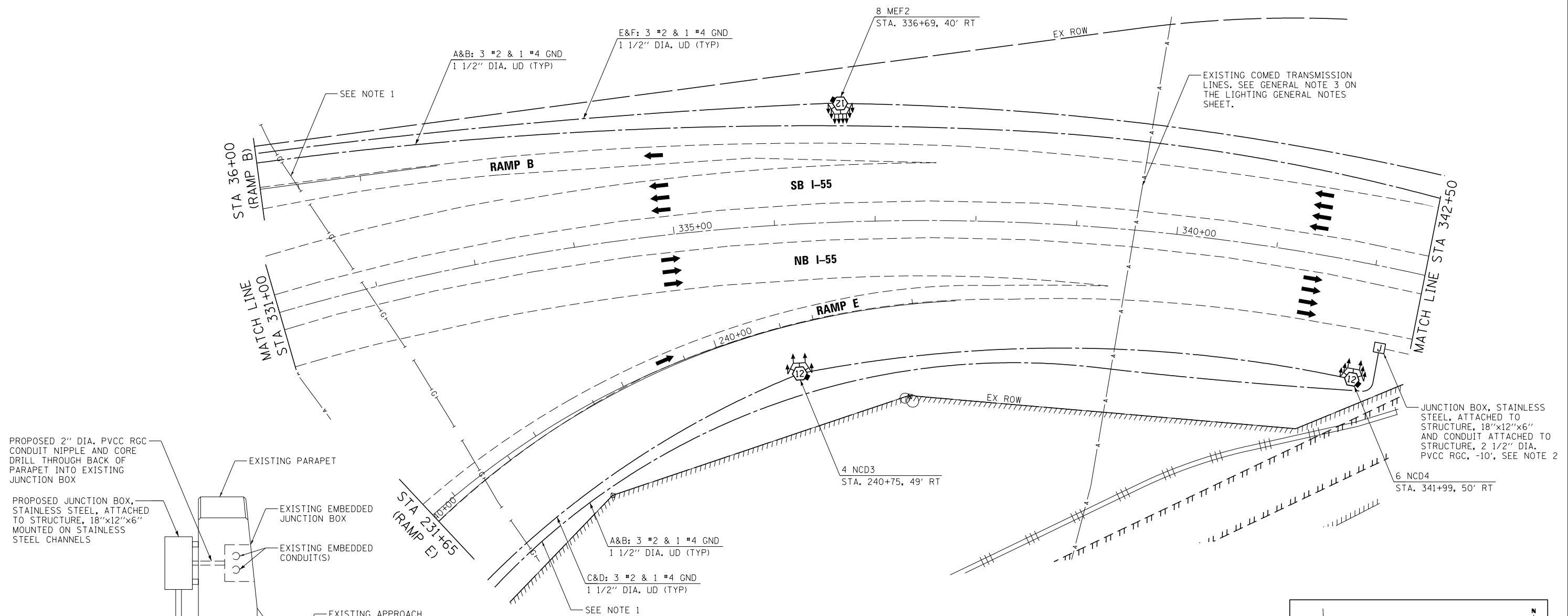
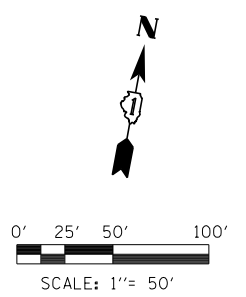


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

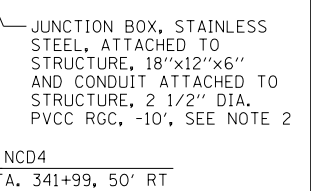
**PROPOSED LIGHTING PLAN
I-55**

SCALE: 1"=50' SHEET 28 OF 61 SHEETS STA. TO STA.

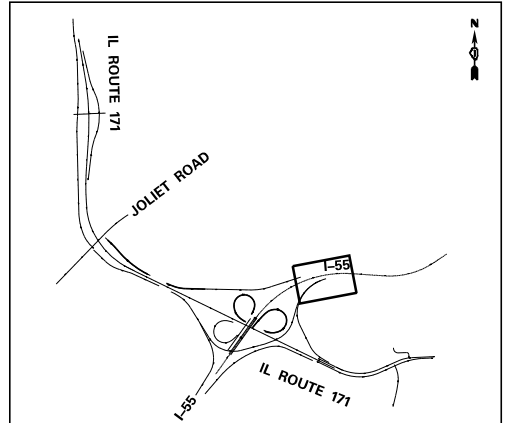
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	198
CONTRACT NO. 60W75				
ILLINOIS FED. AID PROJECT				



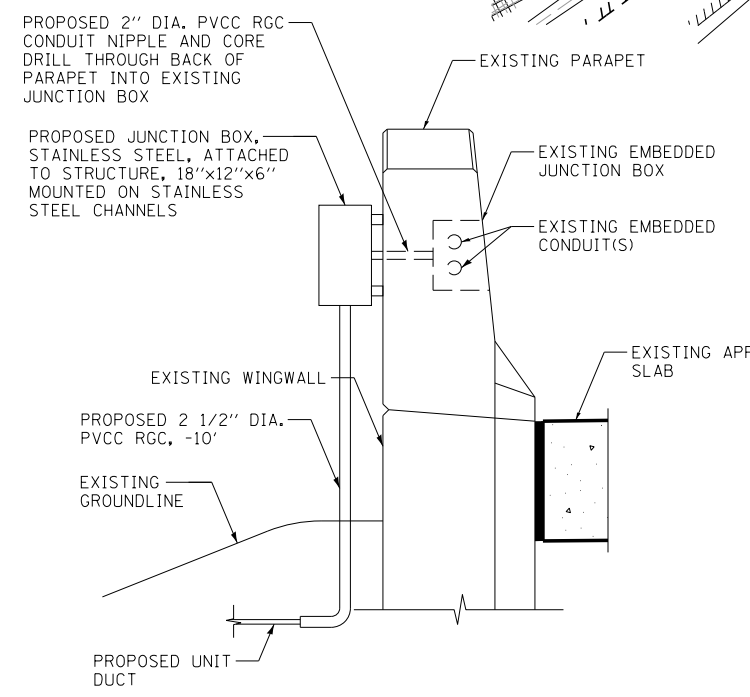
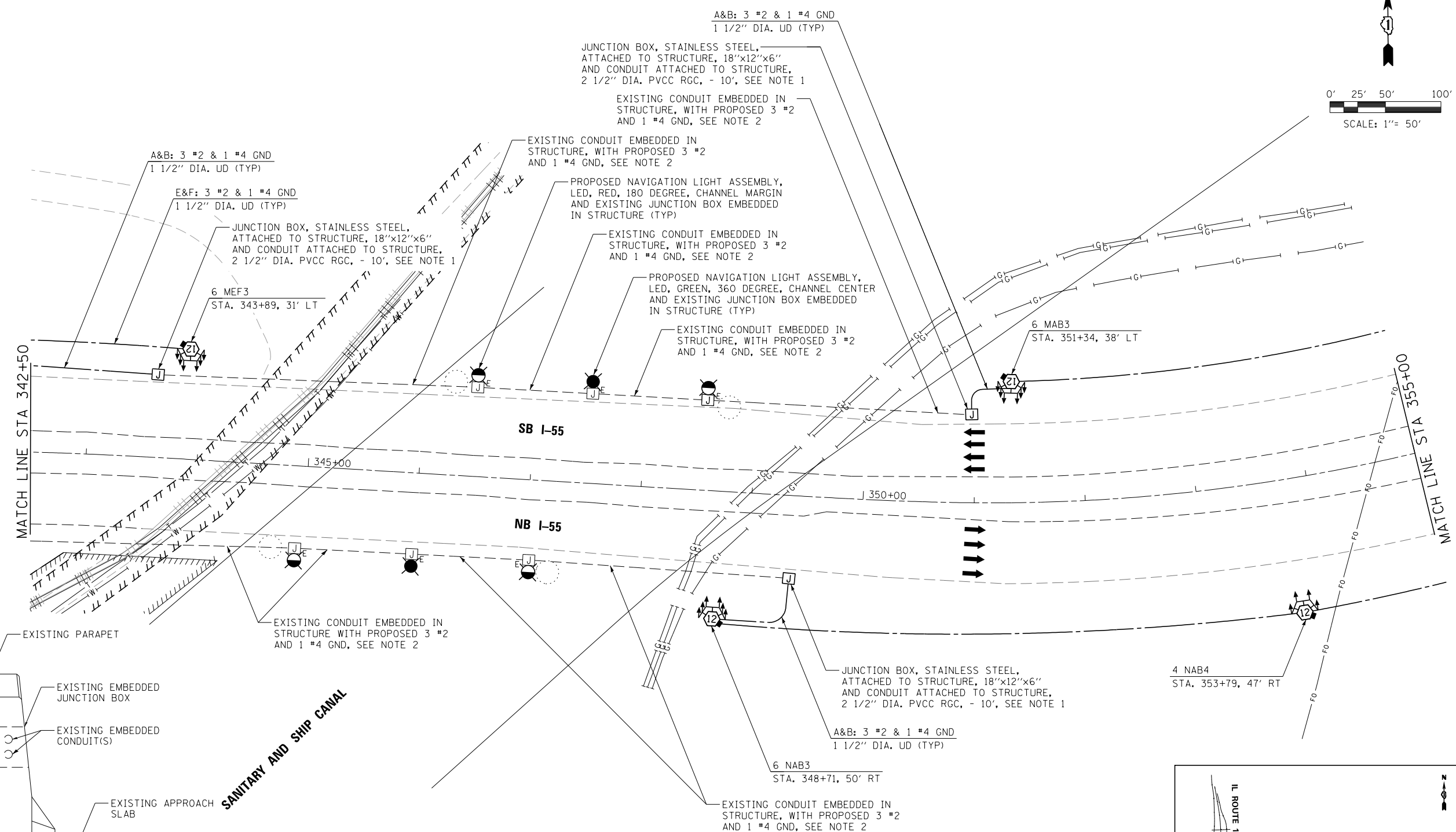
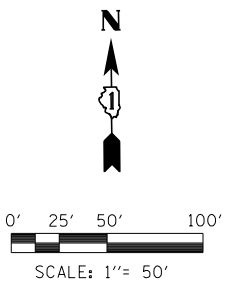
EXISTING EMBEDDED JUNCTION BOX DETAIL



- NOTES:**
- CONTRACTOR SHALL EXERCISE CARE WHEN INSTALLING CONDUIT TO AVOID EXISTING UNDERGROUND GAS PIPELINE IN THIS AREA.
 - CONTRACTOR SHALL CORE DRILL THROUGH THE EXISTING PARAPET WALL INTO THE BACK OF THE EXISTING EMBEDDED JUNCTION BOX. THE COSTS FOR THIS CORING WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX AND 2 1/2" DIA. PVCC RGC DOWN TO THE GROUND.

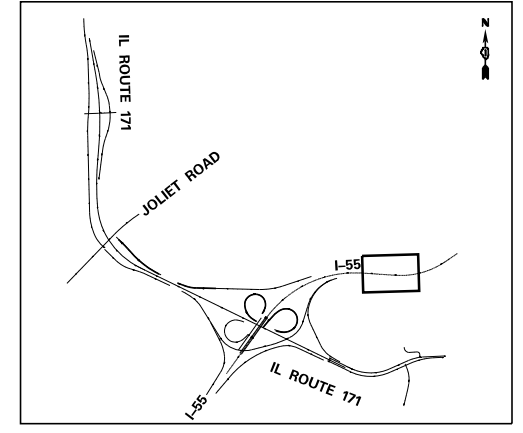


FILE NAME = ... \D160W75-sh-t-155-pr-light-NB-12.dgn	DESIGNED - GRR	REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLAN I-55		F.A.P. RTE. 372/373	SECTION 2013-037B-R	COUNTY COOK	TOTAL SHEETS 787	SHEET NO. 199
USER NAME = jworthington	CHECKED - GHT	REVISED -					CONTRACT NO. 60W75				
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -			ILLINOIS FED. AID PROJECT						
					SCALE: 1"=50'	SHEET 29 OF 61 SHEETS	STA. TO STA.				



EXISTING EMBEDDED JUNCTION BOX DETAIL

- NOTES:**
1. CONTRACTOR SHALL CORE DRILL THROUGH THE EXISTING PARAPET WALL INTO THE BACK OF THE EXISTING EMBEDDED JUNCTION BOX. THE COSTS FOR THIS CORING WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED JUNCTION BOX. CONTRACTOR SHALL THEN INSTALL THE PROPOSED STAINLESS STEEL JUNCTION BOX WITH NEW 2" DIA. PVCC RGC NIPPLE BETWEEN THE EXISTING EMBEDDED JUNCTION BOX AND THE PROPOSED ATTACHED JUNCTION BOX AND 2 1/2" DIA. PVCC RGC DOWN TO THE GROUND.
 2. CONTRACTOR SHALL REMOVE THE EXISTING CABLES FROM THE CONDUIT PRIOR TO INSTALLATION OF THE PROPOSED CABLES. REMOVAL OF THE EXISTING CABLES SHALL BE PAID FOR UNDER PAY ITEM "REMOVE ELECTRIC CABLE FROM CONDUIT" FOR EACH CABLE REMOVED.
 3. SEE NAVIGATION LIGHTING DETAILS FOR ASSEMBLY MOUNTING DETAILS.



FILE NAME =	DESIGNED - GRR	REVISED -
...\\D160W75-sh-155-pr-light-NB-13.dgn	DRAWN - JLW	REVISED -
USER NAME = jworthington	CHECKED - GHT	REVISED -
PLOT DATE = 8/31/2015	DATE - 6/12/2015	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN	
I-55	
SCALE: 1"=50'	SHEET 30 OF 61 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372/373	2013-037B-R	COOK	787	200
CONTRACT NO. 60W75			ILLINOIS FED. AID PROJECT	