

LEGEND		○ TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS @ 50 FT CENTERS ALONG ROADWAY (TANGENTS), 25 FT CENTERS ALONG TAPERS, AND 12 FT CENTERS ALONG RADII.	
	WORK AREA		IMP ATTN TEMP FRN TL3
	TEMPORARY PAVEMENT		TEMPORARY CONCRETE BARRIER
	PROP. BASE COURSE WIDENING WITH 2 1/2" OF TEMPORARY PAVEMENT		DIRECTION OF TRAFFIC
			VERTICAL PANEL @ 50 FT C-C
			TYPE III BARRICADES WITH FLASHING LIGHTS

DO NOT STOP HERE
G20-1103(0)-3660
36 x 18 In.

USER NAME = tkceppeniRdwy.L1s1e)	DESIGNED - CPK	REVISED -
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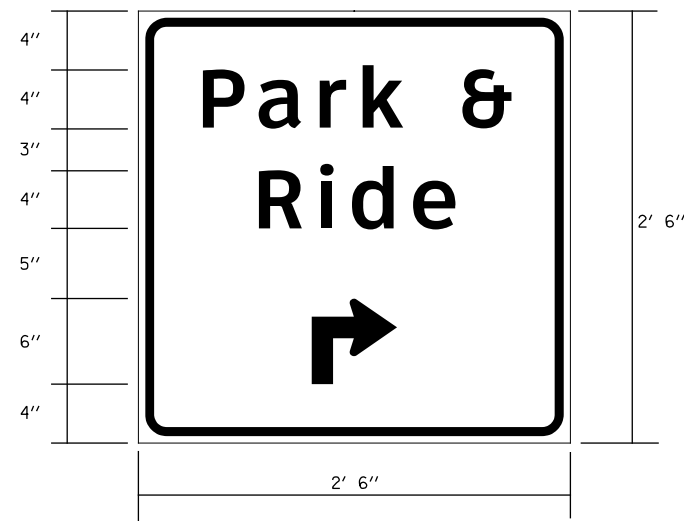
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL
DETAIL FOR I-90 PIPE JACKING OPERATIONS**

SCALE: 1"=50' SHEET MOT-41 OF 42

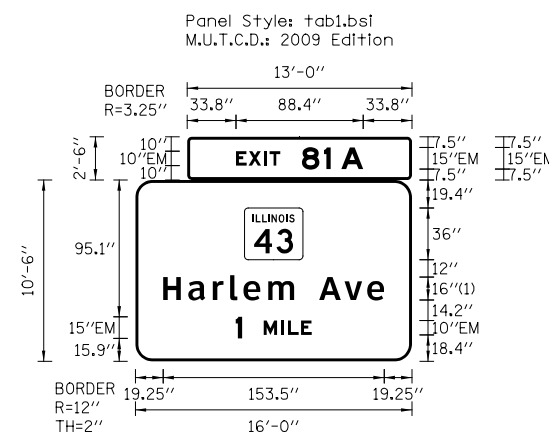
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	101
				60J14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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Left Turn Lane

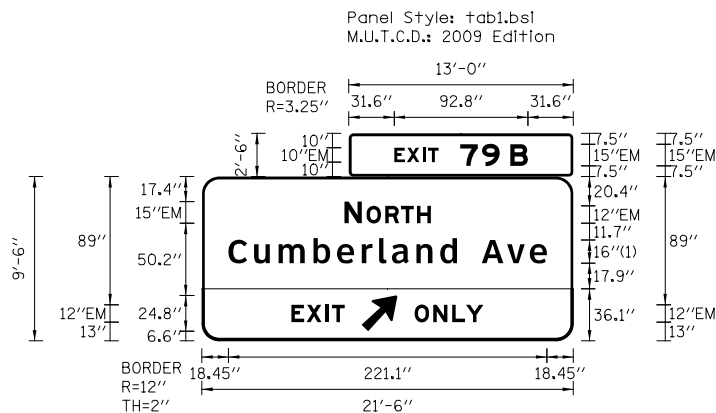
TEMPORARY INFORMATION SIGN
164" X 14"



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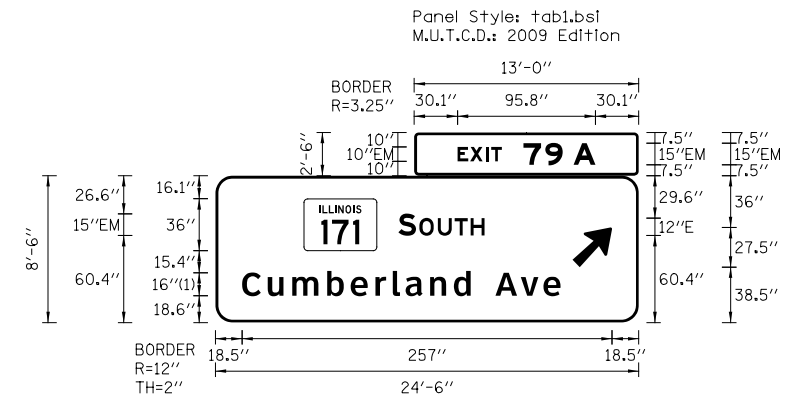
GROUND MOUNTED TEMPORARY INFORMATION SIGNS



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

GROUND MOUNTED TEMPORARY INFORMATION SIGNS



FONT:
(1) ClearViewHwy-5-W

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

GROUND MOUNTED TEMPORARY INFORMATION SIGNS







SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNS" FOR ADDITIONAL INFORMATION.
ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN.

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen(Rdwy_Lisle)	DESIGNED - CPK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL TEMPORARY SIGNING DETAIL			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 1:100	CHECKED - JAH	REVISED -		SCALE: NA	SHEET	MOT-42 OF 42	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = 2/18/2013 7:14:00 PM	DATE - 2/18/2013	REVISED -		60J14								

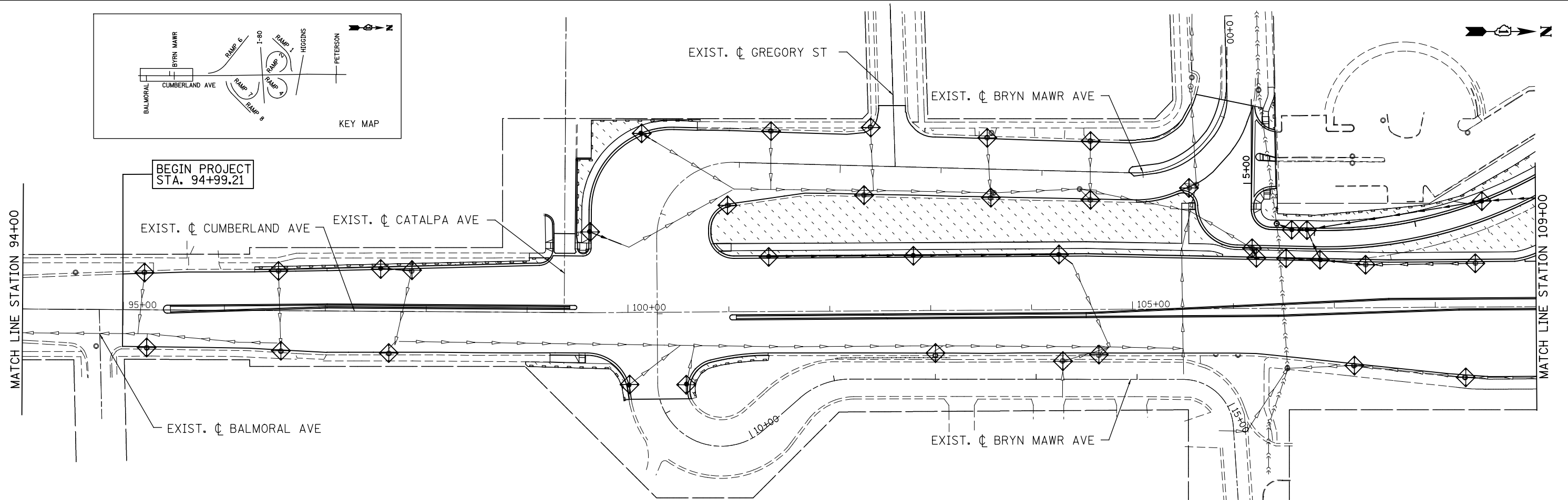
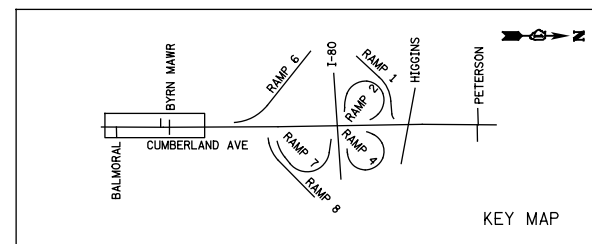
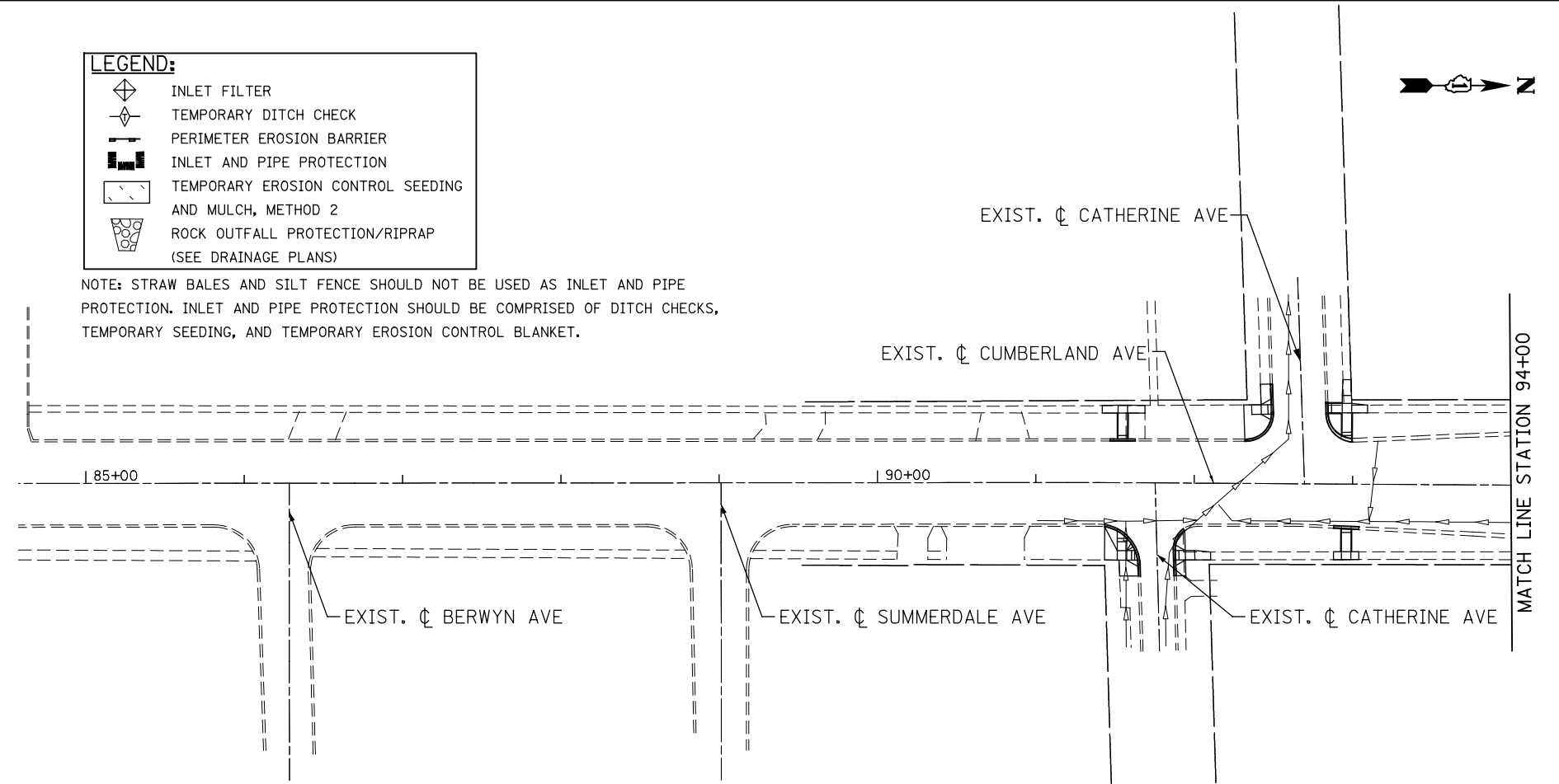
EROSION CONTROL GENERAL NOTES:


1. THE CONSTRUCTION LIMITS WILL BE STAKED/APPROVED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGES IN THE CONSTRUCTION LIMITS.
2. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
3. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
4. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
5. TEMPORARY EROSION CONTROL SEEDING SHALL BE PROVIDED PER SUB-STAGE AS SOON AS ROUGH GRADING IS COMPLETED IN A SECTION, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITIES IN THAT PORTION OF THE SITE HAVE TEMPORARILY OR PERMANENTLY CEASED WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.
6. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
7. THE CONTRACTOR SHALL PROVIDE TO THE RESIDENT ENGINEER A PLAN TO HAVE A STABILIZED CONNECTION BETWEEN THE UPSTREAM AND DOWNSTREAM ENDS OF STORM WATER CONVEYANCE UNDER CONSTRUCTION WHEN RAIN IS FORECASTED DURING STORM SEWER CONSTRUCTION, SO THAT FLOW WILL NOT CAUSE EROSION.
8. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND WILL REQUIRE SILT FENCE AND TEMPORARY SEEDING.

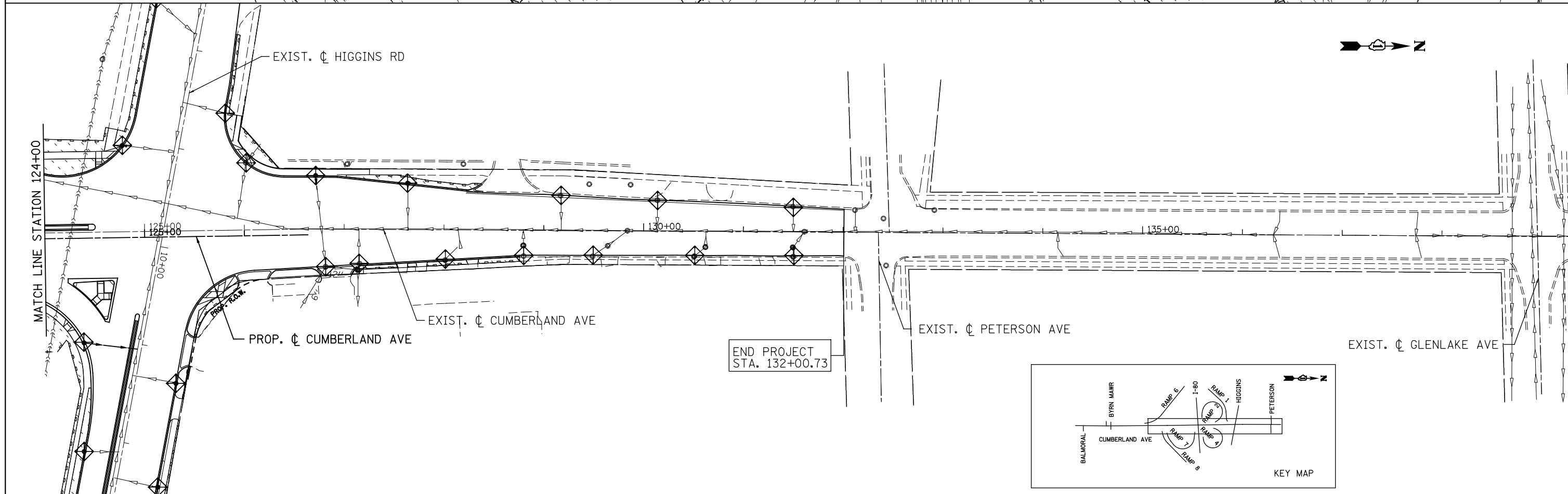
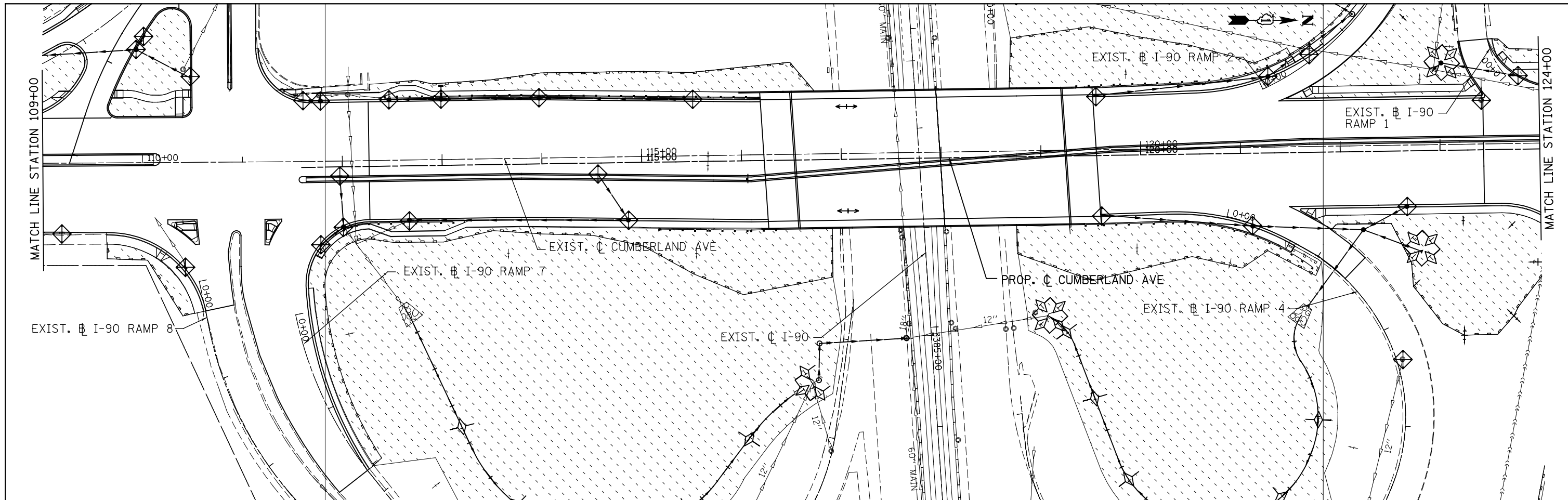
LEGEND:

-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  TEMPORARY EROSION CONTROL SEEDING AND MULCH, METHOD 2
-  ROCK OUTFALL PROTECTION/RIPRAP (SEE DRAINAGE PLANS)

NOTE: STRAW BALES AND SILT FENCE SHOULD NOT BE USED AS INLET AND PIPE PROTECTION. INLET AND PIPE PROTECTION SHOULD BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING, AND TEMPORARY EROSION CONTROL BLANKET.



 PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen(Rdwy_Lisle) PLOT CONFIG = PDF(Grey_Small).plt PLOT SCALE = 1:1000 PLOT DATE = 2/18/2013 5:02:33 PM	DESIGNED - DD DRAWN - DD CHECKED - AJ DATE - 2/18/2013	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL EROSION AND SEDIMENTATION CONTROL PLAN CUMBERLAND AVENUE			F.A.U. RTE. 2746 SECTION 1616B COUNTY COOK ILLINOIS FED. AID PROJECT	TOTAL SHEETS 404 SHEET NO. 103 60J14
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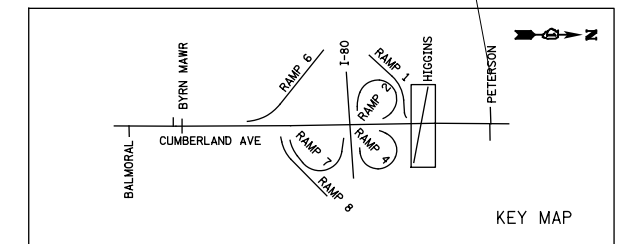
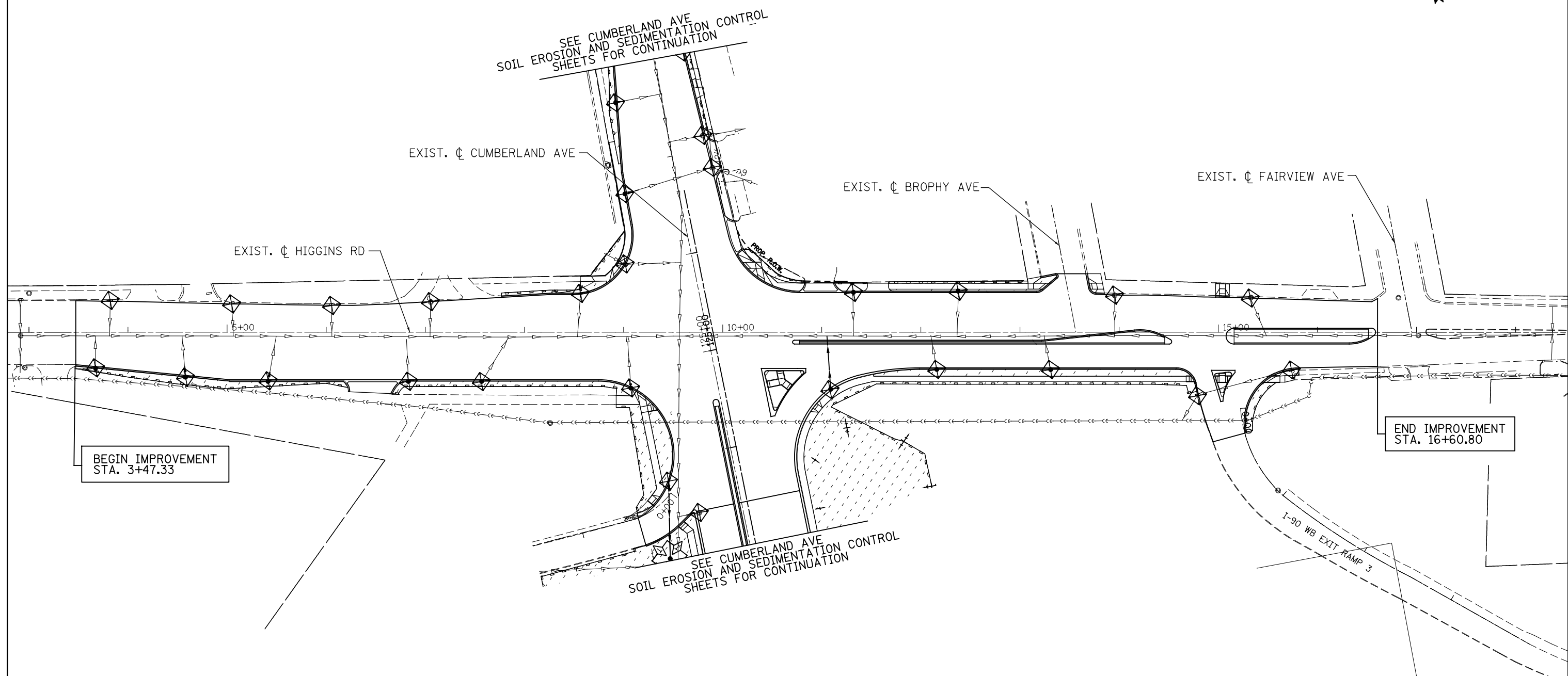
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL EROSION AND SEDIMENTATION CONTROL PLAN
CUMBERLAND AVENUE**

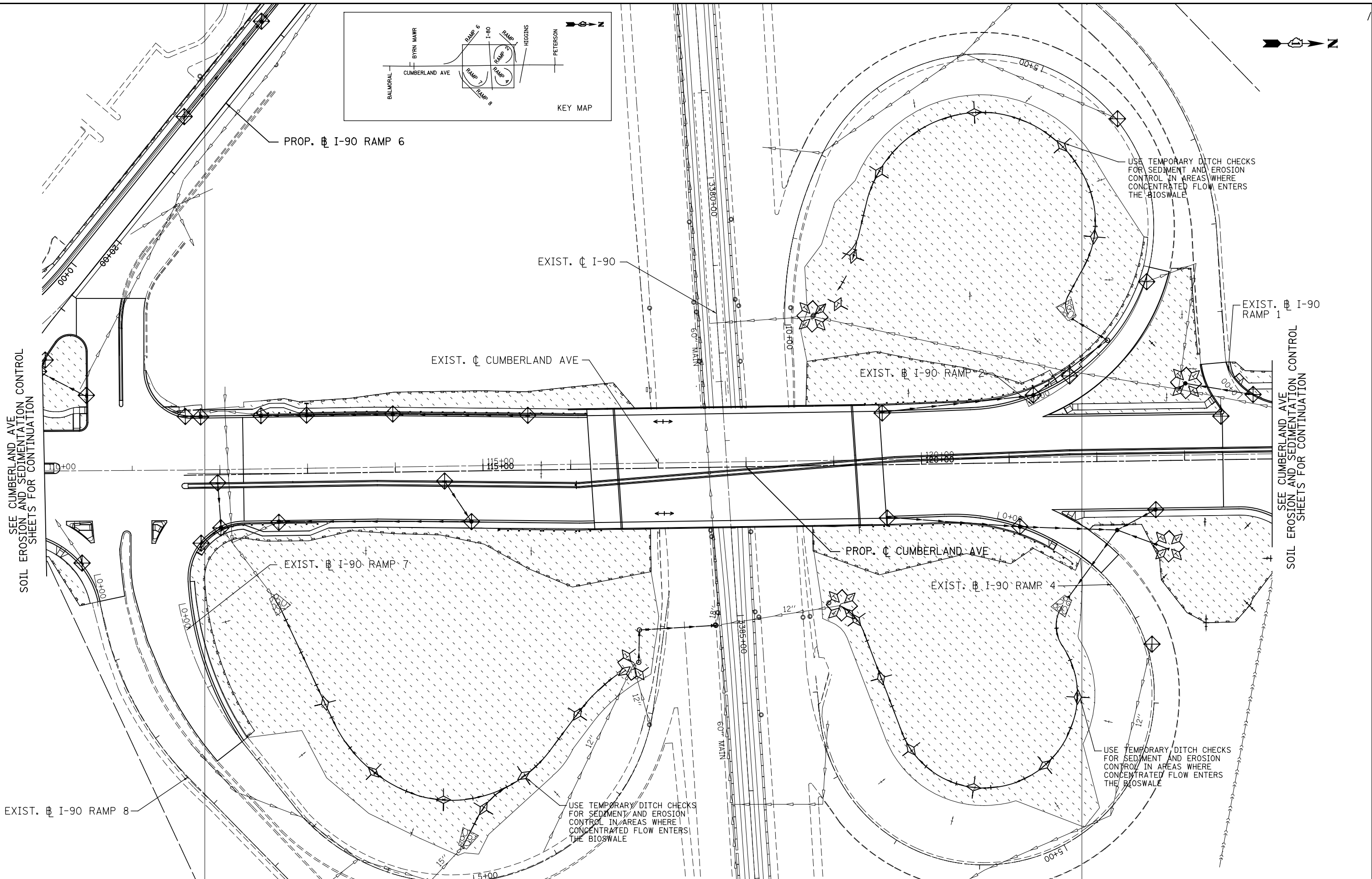
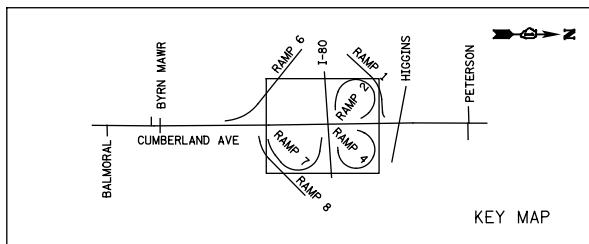
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	104
60J14				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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SEE CUMBERLAND AVE SOIL EROSION AND SEDIMENTATION CONTROL SHEETS FOR CONTINUATION

SEE CUMBERLAND AVE SOIL EROSION AND SEDIMENTATION CONTROL SHEETS FOR CONTINUATION

	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen@rdwy.lisle PLOT CONFIG = PDF(Grey_Small).plt PLOT SCALE = 1:1000 PLOT DATE = 2/18/2013 5:03:15 PM	DESIGNED - DD DRAWN - DD CHECKED - AJ DATE - 2/18/2013	REVISED - REVISED - REVISED - REVISED -
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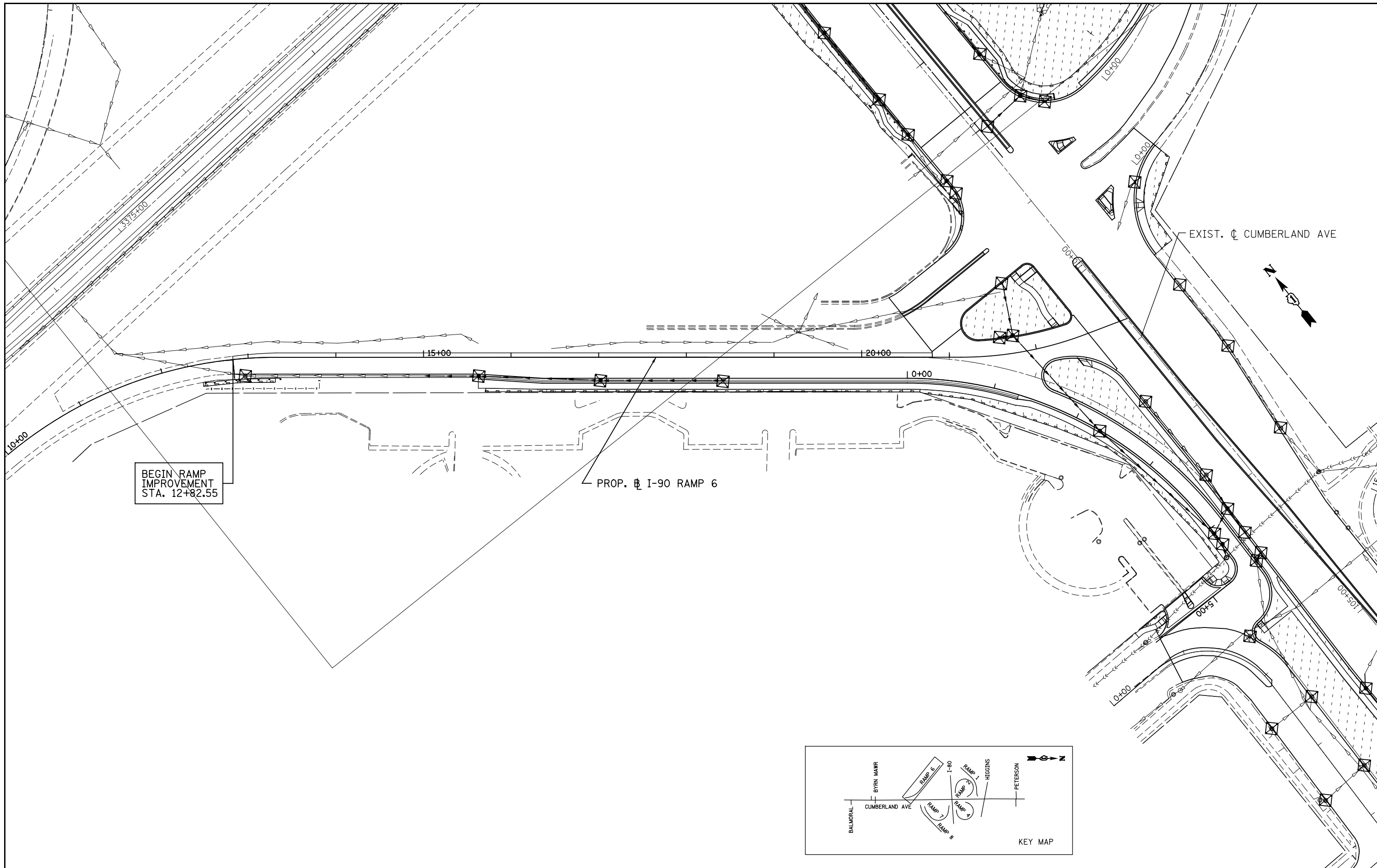
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL EROSION AND SEDIMENTATION CONTROL PLAN
CUMBERLAND AVENUE**

SCALE: 1"=50' SHEET ERO-04 OF 6 STA. 110+00.00 TO STA. 124+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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60J14				

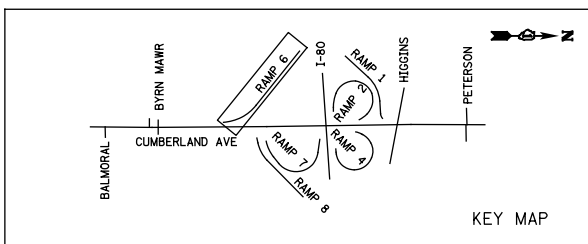
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BEGIN RAMP
IMPROVEMENT
STA. 12+82.55

PROP. I-90 RAMP 6

EXIST. CUMBERLAND AVE



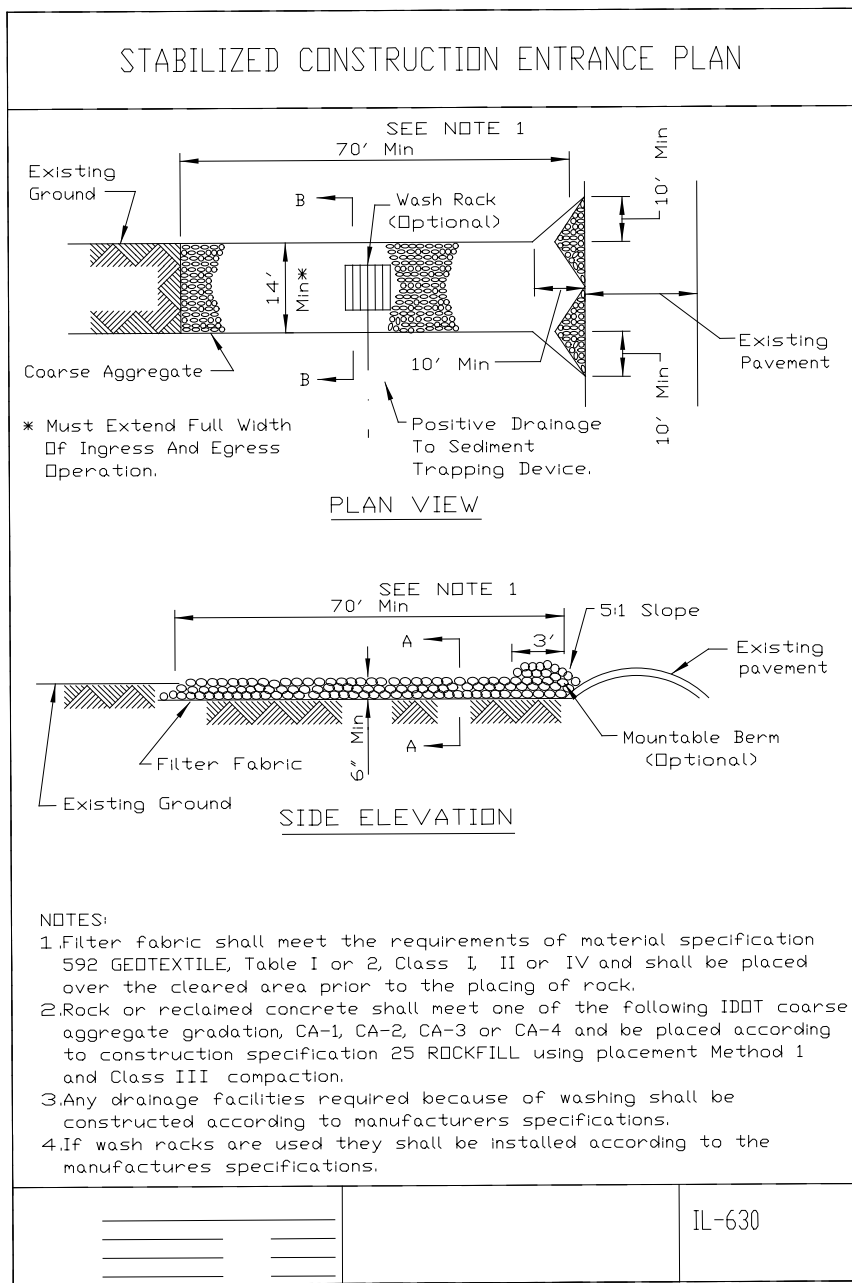
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

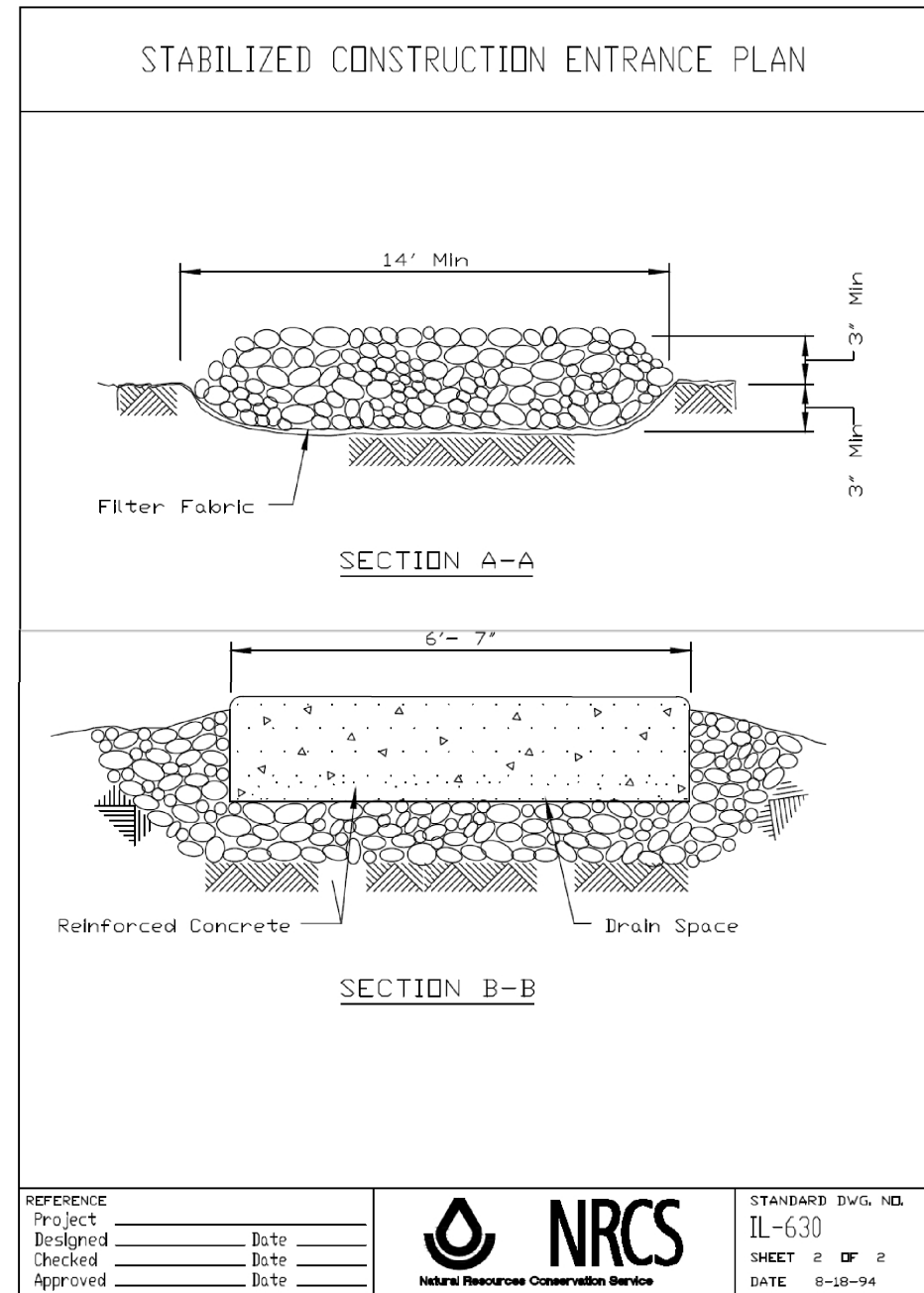
SOIL EROSION AND SEDIMENTATION CONTROL PLAN			
I-90 RAMP 6			
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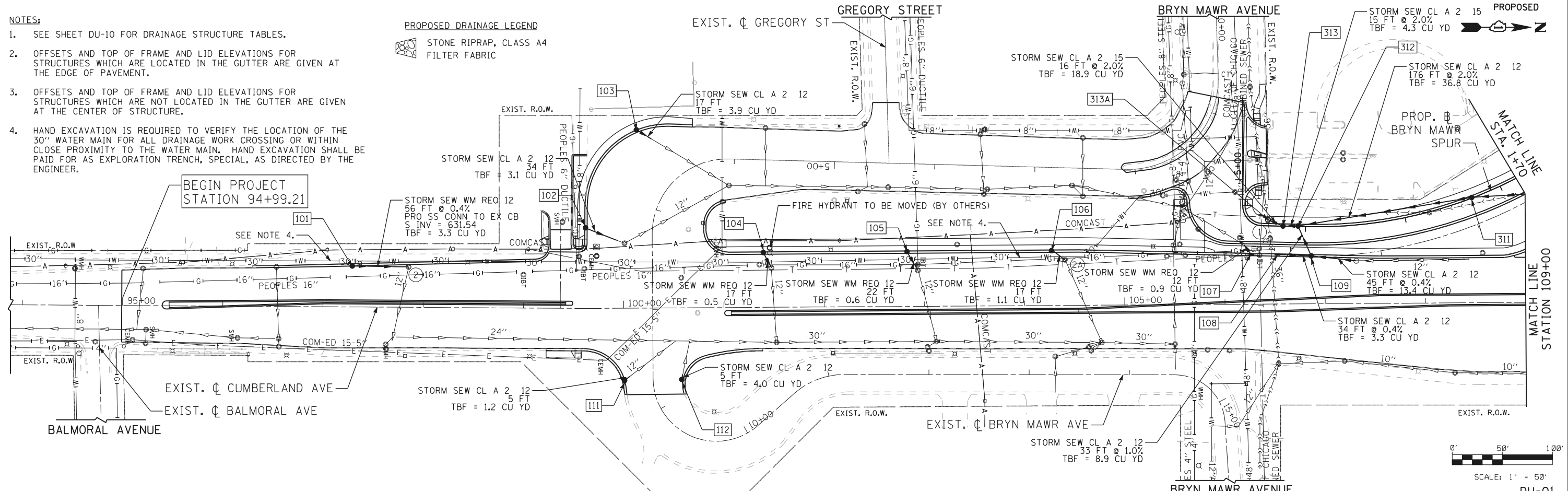
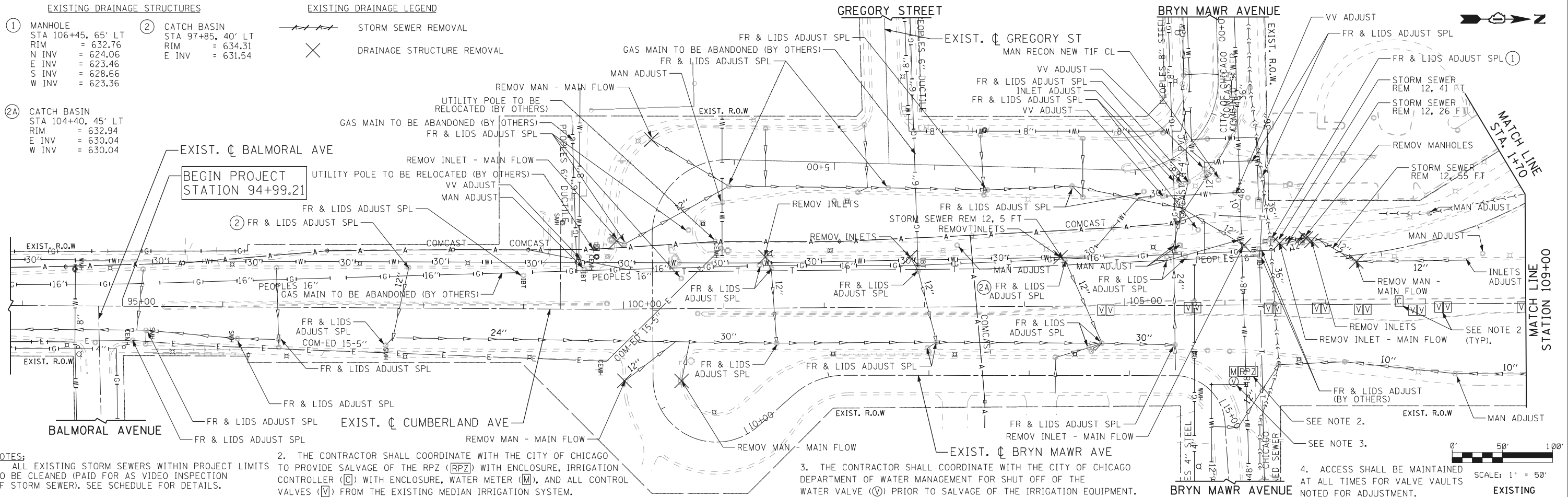
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	107
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			60J14	

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NOTE:
1: LENGTH SHALL BE THE LESSER OF 70 FEET OR THE DISTANCE BETWEEN THE EXISTING PAVEMENT AND THE LIMITS OF GRADING BUT NO LESS THAN 50 FEET.





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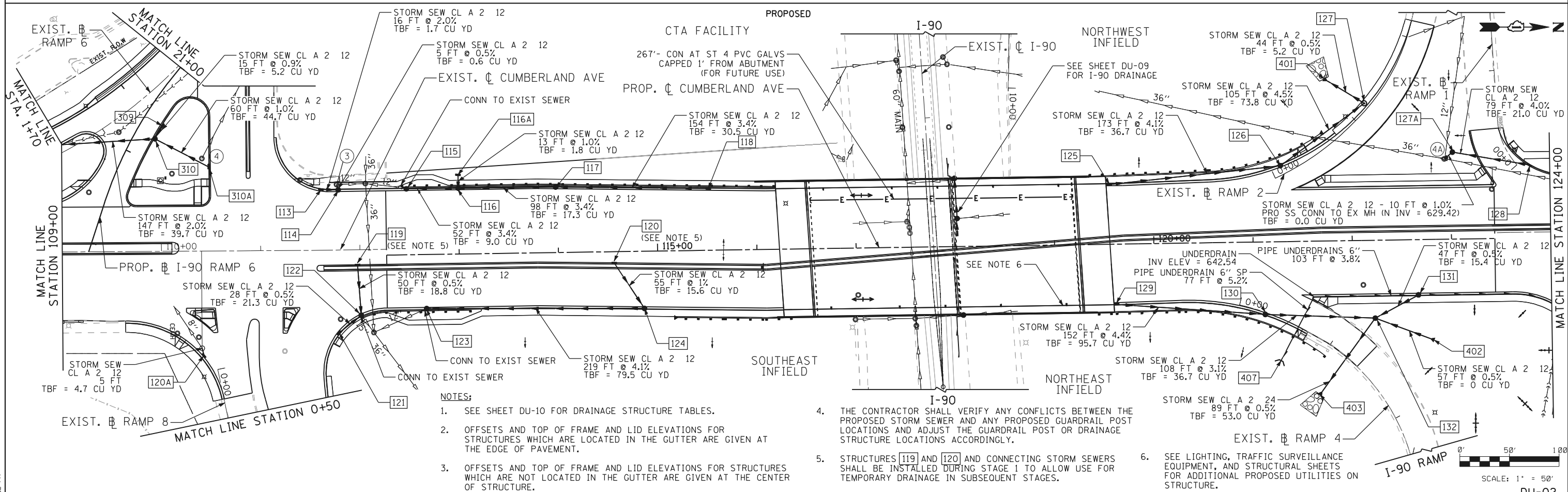
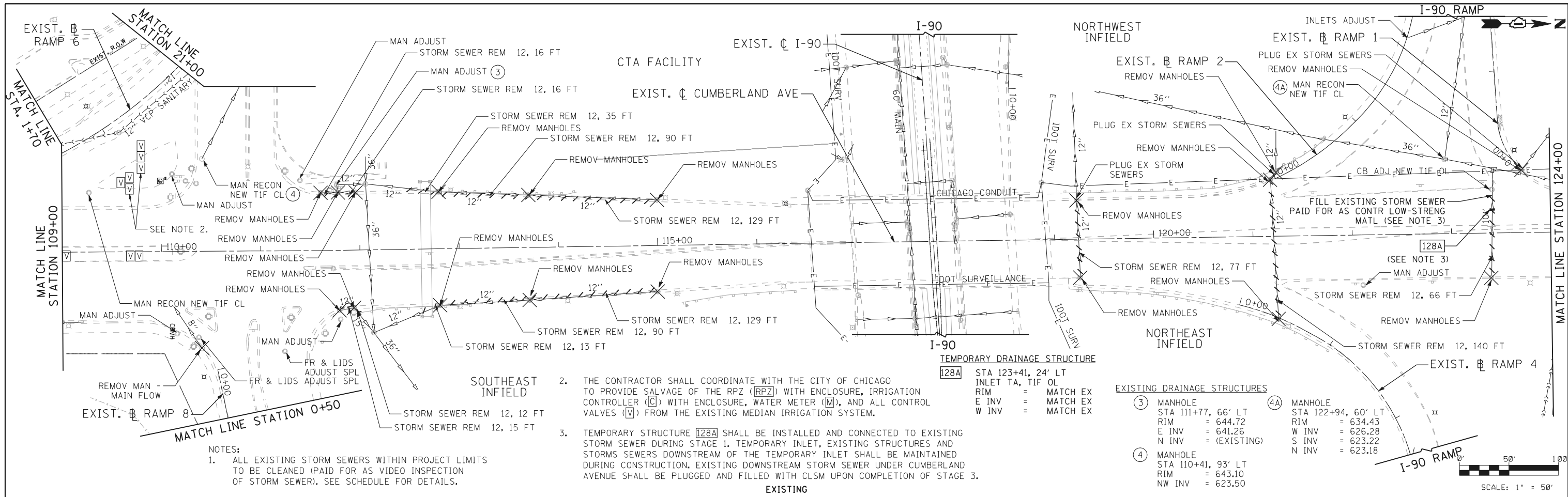
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES PLAN
CUMBERLAND AVENUE**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 94+99.21 TO STA. 109+00

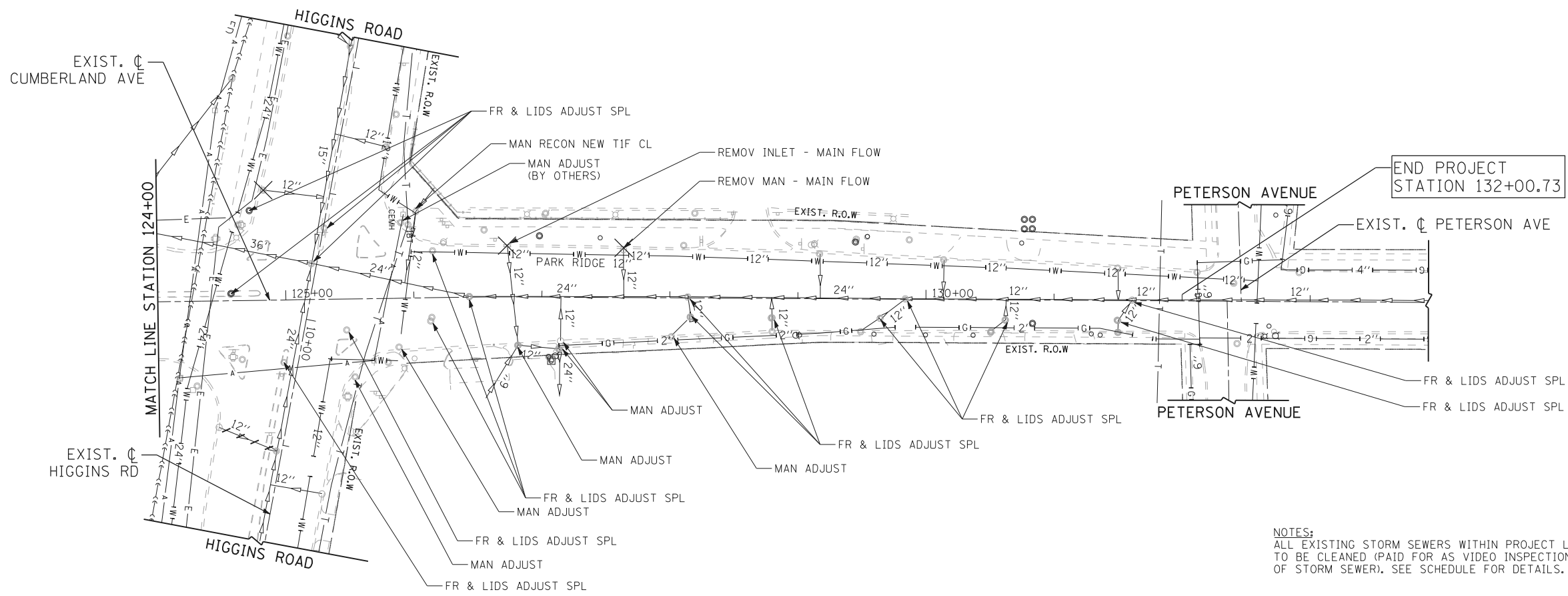
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CONTRACT NO. 60J14				ILLINOIS FED. AID PROJECT

DU-01

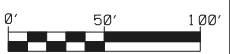


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PLOT DATE = 2/18/2013	DATE = 2/18/2013	REVISED -						DU-02		CONTRACT NO. 60J14		

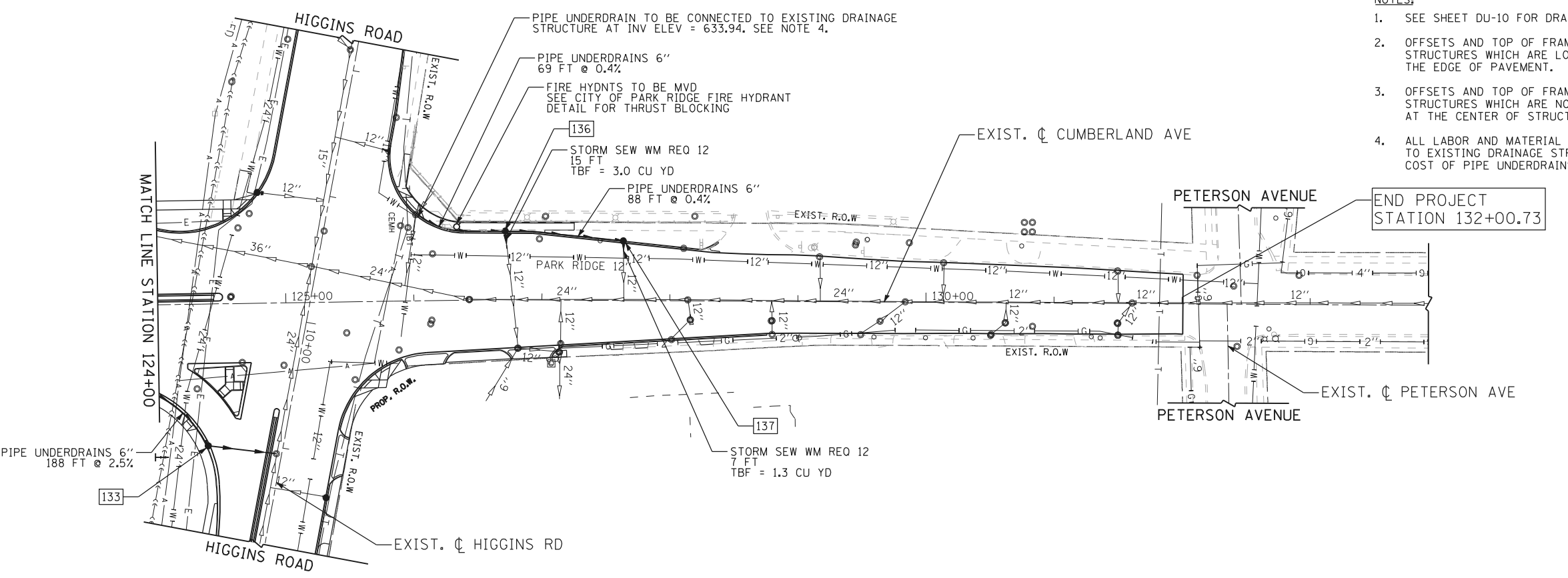


NOTES:
 ALL EXISTING STORM SEWERS WITHIN PROJECT LIMITS TO BE CLEANED (PAID FOR AS VIDEO INSPECTION OF STORM SEWER). SEE SCHEDULE FOR DETAILS.



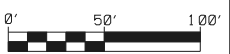
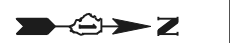
SCALE: 1" = 50'

EXISTING
 PROPOSED



NOTES:

1. SEE SHEET DU-10 FOR DRAINAGE STRUCTURE TABLES.
2. OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE LOCATED IN THE GUTTER ARE GIVEN AT THE EDGE OF PAVEMENT.
3. OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE NOT LOCATED IN THE GUTTER ARE GIVEN AT THE CENTER OF STRUCTURE.
4. ALL LABOR AND MATERIAL FOR CONNECTION OF PIPE UNDERDRAINS TO EXISTING DRAINAGE STRUCTURE SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS 6.



SCALE: 1" = 50'

DU-03

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	DRAWN - GR	REVISED -
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PLOT DATE = 2/18/2013	DATE - 2/18/2013	REVISED -

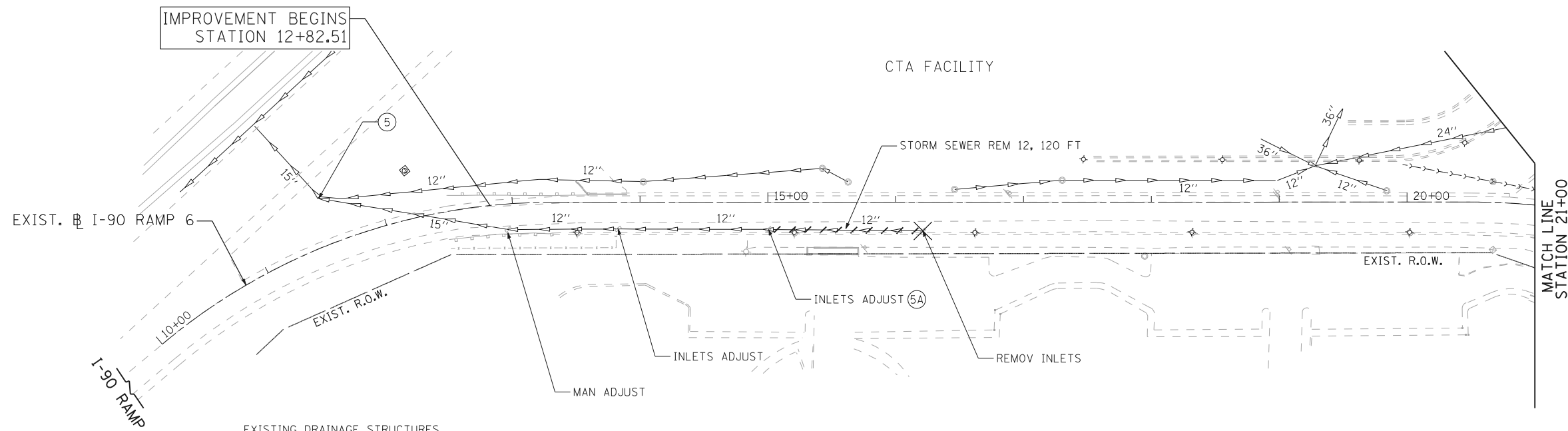


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES PLAN
 CUMBERLAND AVENUE**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 124+00 TO STA. 132+00.73

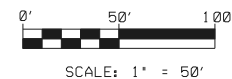
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	111
CONTRACT NO. 60J14			ILLINOIS FED. AID PROJECT	



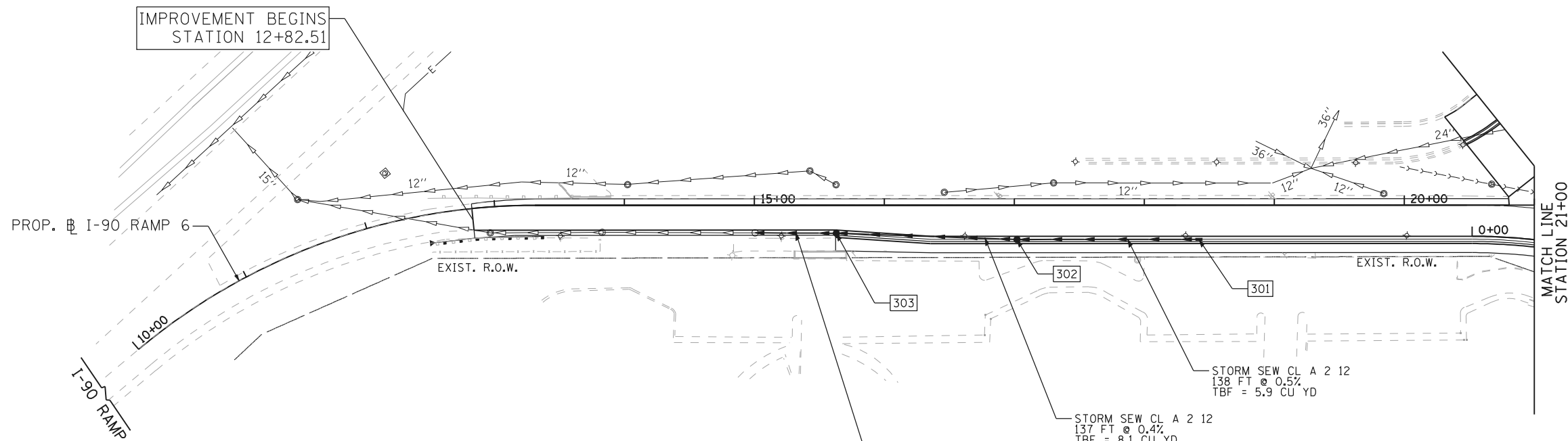
EXISTING DRAINAGE STRUCTURES

- (5) MANHOLE
 STA 11+44, 40' LT
 RIM = 635.59
 N INV = 622.19
 SE INV = 629.99
 S INV = 622.79
- (5A) MANHOLE
 STA 15+01, 21' RT
 RIM = 634.83
 NW INV = 631.96
 SE INV = 631.96

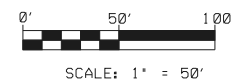
NOTES:
 ALL EXISTING STORM SEWERS WITHIN PROJECT LIMITS TO BE CLEANED (PAID FOR AS VIDEO INSPECTION OF STORM SEWER). SEE SCHEDULE FOR DETAILS.



EXISTING
 PROPOSED



- NOTES:**
- SEE SHEET DU-10 FOR DRAINAGE STRUCTURE TABLES.
 - OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE LOCATED IN THE TYPE B GUTTER ARE GIVEN AT THE FRONT EDGE OF GUTTER.
 - OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE NOT LOCATED IN THE GUTTER ARE GIVEN AT THE CENTER OF STRUCTURE.
 - SEE DRAINAGE DETAIL SHEET DU-15 FOR CONCRETE GUTTER, TYPE B TRANSITIONS AT DRAINAGE STRUCTURES.



DU-05

USER NAME = cgotowski	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE = 1:100	CHECKED - DT	REVISED -
PLOT DATE = 2/18/2013	DATE - 2/18/2013	REVISED -



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES PLAN
 I-90 RAMP 6**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 3+47.33 TO STA. 16+60.80

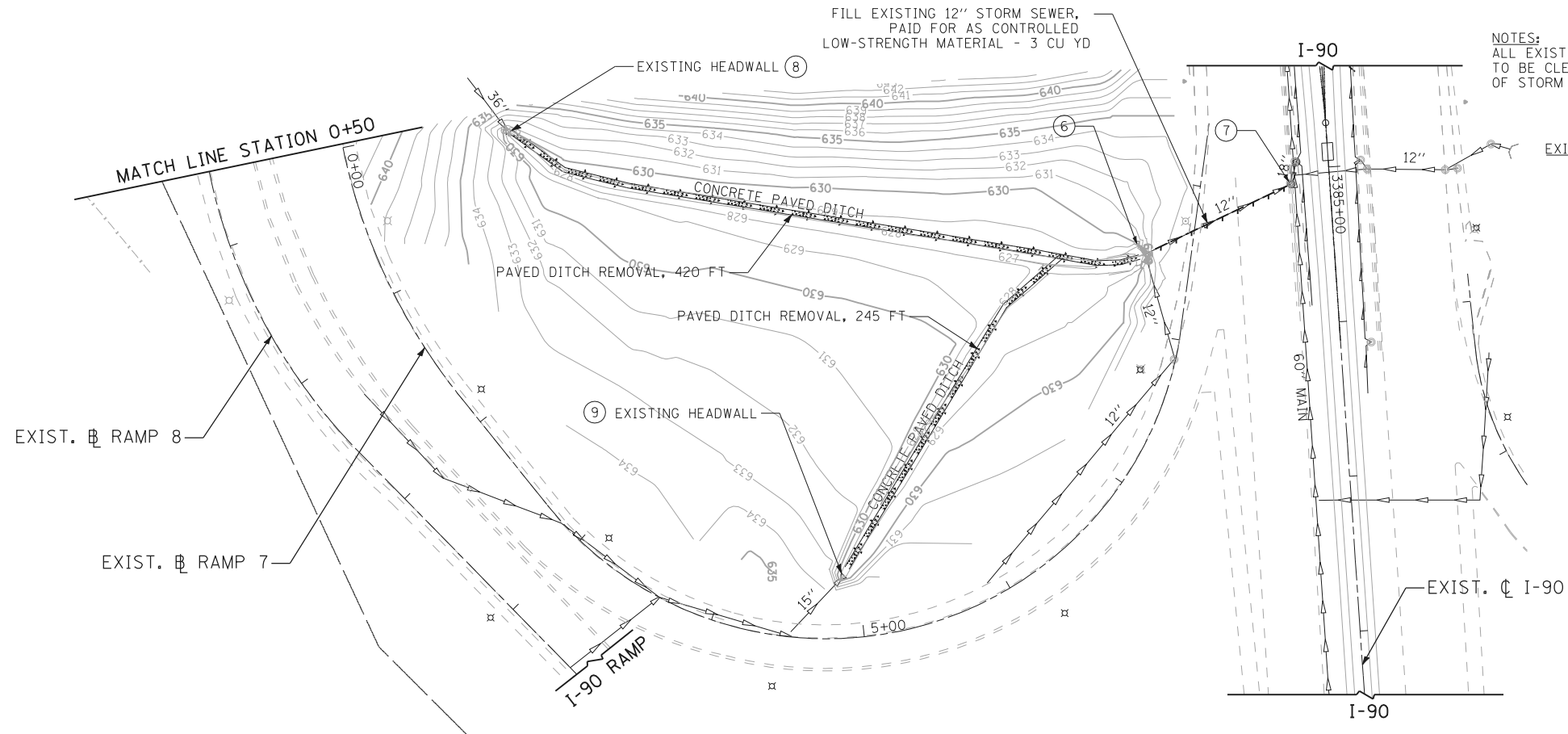
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2746	1616B	COOK	404	113
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ILLINOIS FED. AID PROJECT				

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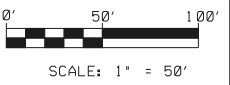
NOTES:
ALL EXISTING STORM SEWERS WITHIN PROJECT LIMITS TO BE CLEANED (PAID FOR AS VIDEO INSPECTION OF STORM SEWER). SEE SCHEDULE FOR DETAILS.

SOUTHEAST INFIELD PROPOSED ELEVATIONS			
POINT	N	E	ELEVATION
1	1936789.70	1119503.20	627.63
2	1936810.92	1119548.47	627.56
3	1936832.82	1119593.77	627.48
4	1936858.70	1119635.89	627.41
5	1936896.78	1119667.98	627.34
6	1936942.93	1119686.54	627.27
7	1936992.66	1119687.01	627.19
8	1937003.31	1119701.12	627.20
9	1937039.41	1119670.05	627.12
10	1937077.28	1119637.80	627.05
11	1937107.33	1119597.84	626.98
12	1937140.16	1119560.26	626.90
13	1936968.94	1119540.36	632.00



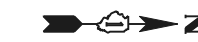
EXISTING DRAINAGE STRUCTURES

- 6 STA 8+58, 36' LT CONTROL STRUCTURE HEADWALL INV AT RESTRICTOR = 626.87 NW INV = 626.65
- 7 MANHOLE 3385+09, 25' RT RIM = 635.69 (12") NW INV = 630.14 (18") NW INV = 626.09 (12") SE INV = 626.14
- 8 FES STA 0+16, 109' LT INV = 627.70
- 9 FES STA 4+87, 42' LT INV = 628.50

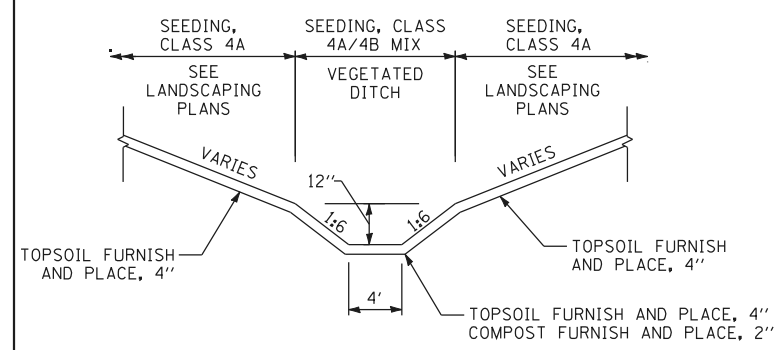


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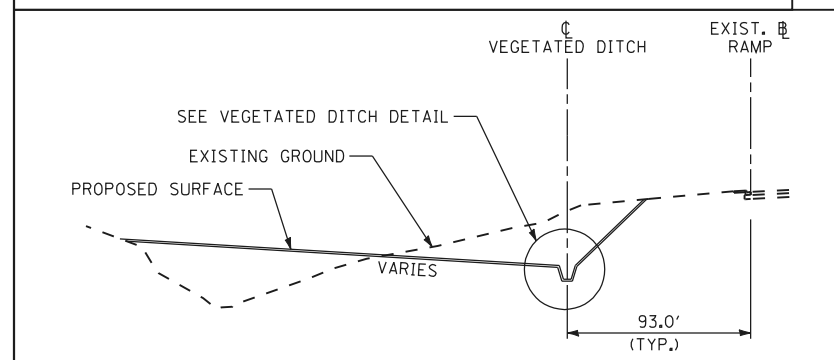
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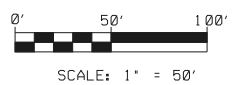
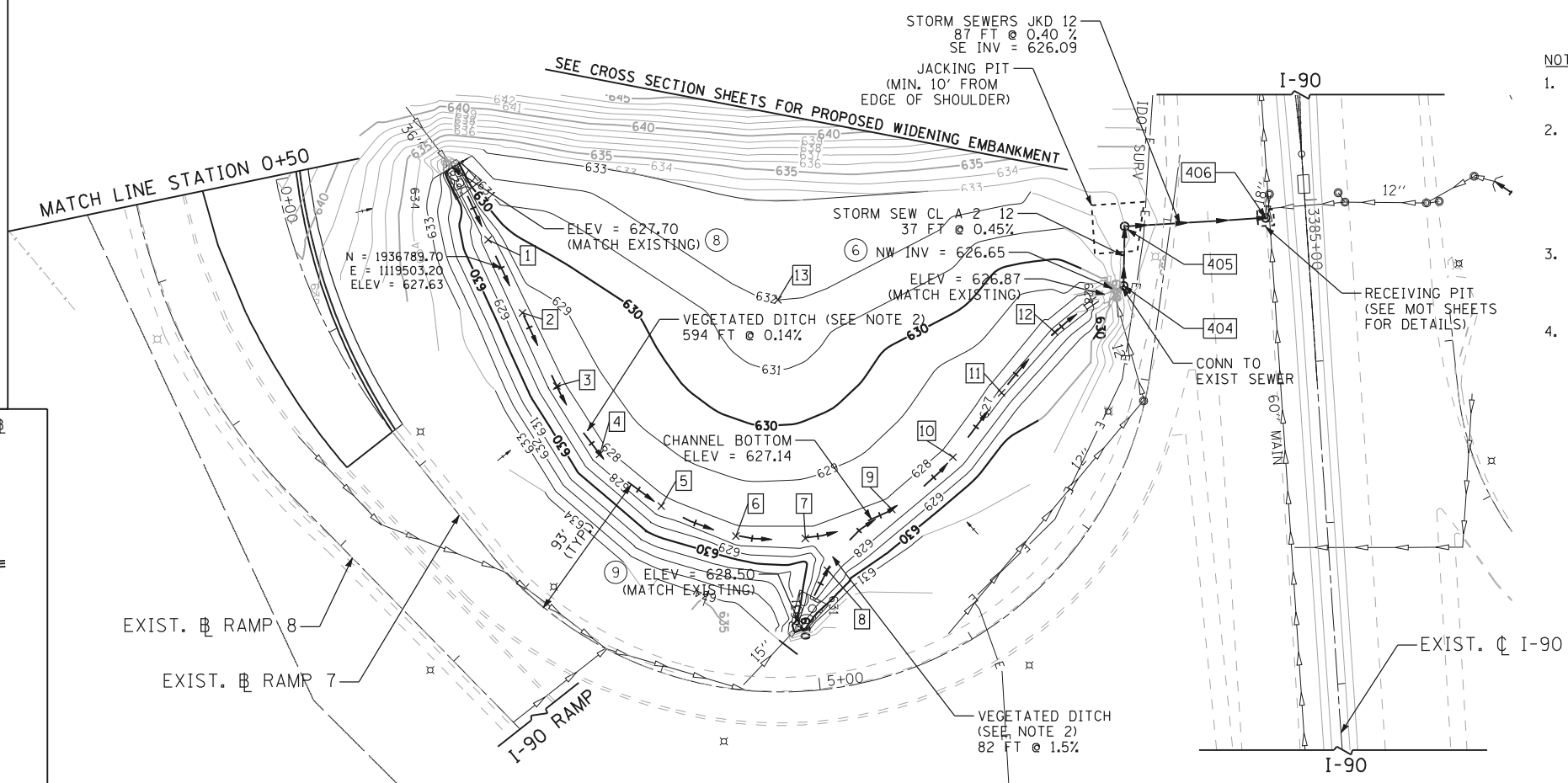
- NOTES:
- SEE SHEET DU-10 FOR DRAINAGE STRUCTURE TABLES.
 - VEGETATED DITCH TO BE PAID FOR AS EARTH EXCAVATION; TOPSOIL FURNISH AND PLACE, 4"; COMPOST FURNISH AND PLACE, 2"; AND SEEDING, CLASS 4A AND SEEDING CLASS 4B. SEE BIO-SWALE DETAIL.
 - OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE LOCATED IN THE GUTTER ARE GIVEN AT THE EDGE OF PAVEMENT.
 - OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE NOT LOCATED IN THE GUTTER ARE GIVEN AT THE CENTER OF STRUCTURE.



VEGETATED DITCH DETAIL (NOT TO SCALE)



TYPICAL INFIELD SECTION (NOT TO SCALE)



DU-06

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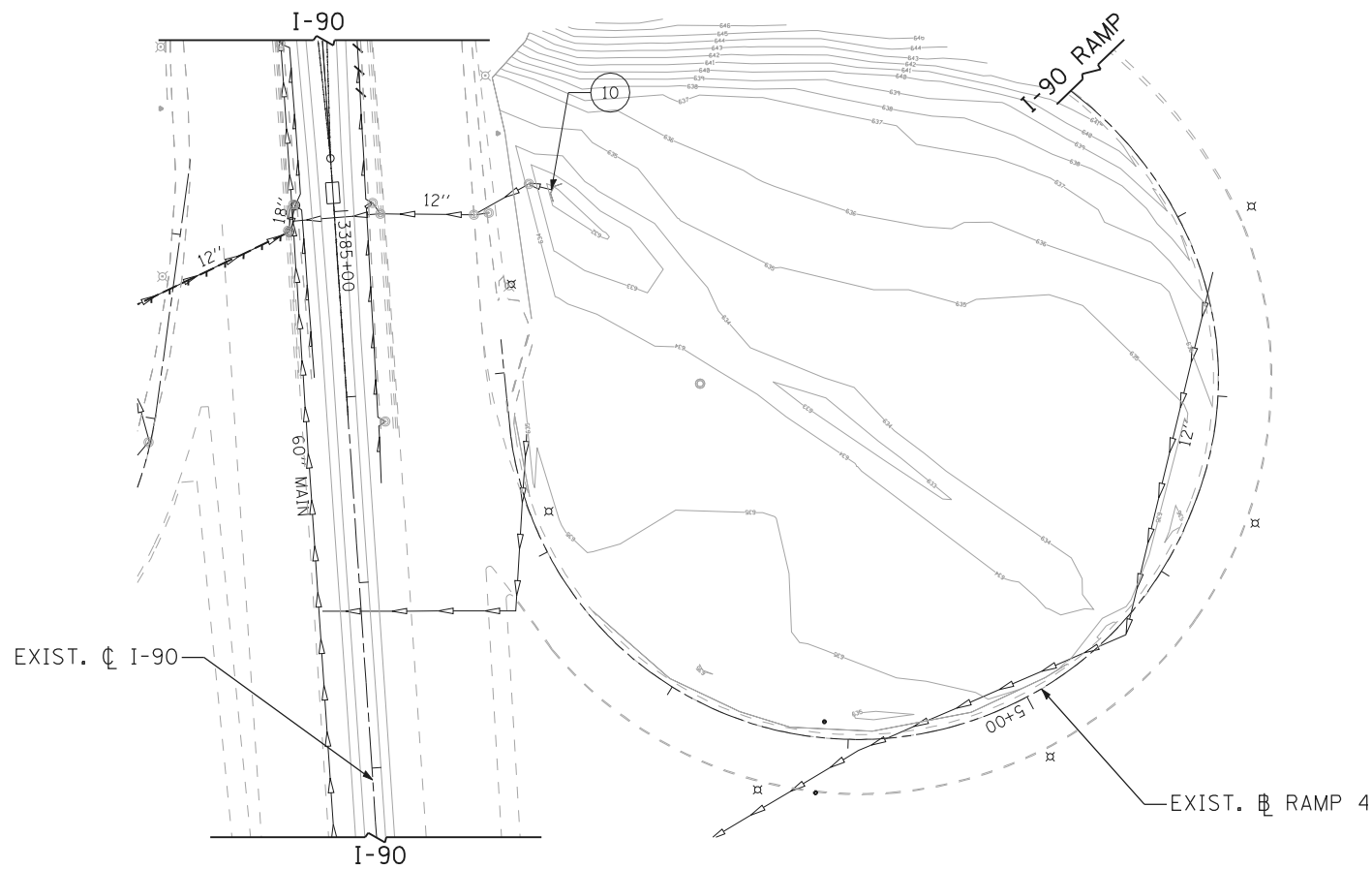


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
I-90 SOUTHEAST INFIELD

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 109+00 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	114
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				



EXISTING DRAINAGE STRUCTURES

- 10 MANHOLE
 STA 3384+90.107' LT
 RIM = 631.67
 S INV = 628.97

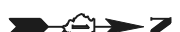
NOTES:
 ALL EXISTING STORM SEWERS WITHIN PROJECT LIMITS TO BE CLEANED (PAID FOR AS VIDEO INSPECTION OF STORM SEWER). SEE SCHEDULE FOR DETAILS.



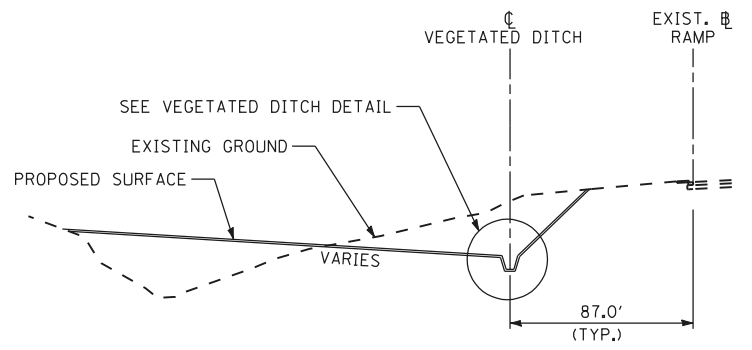
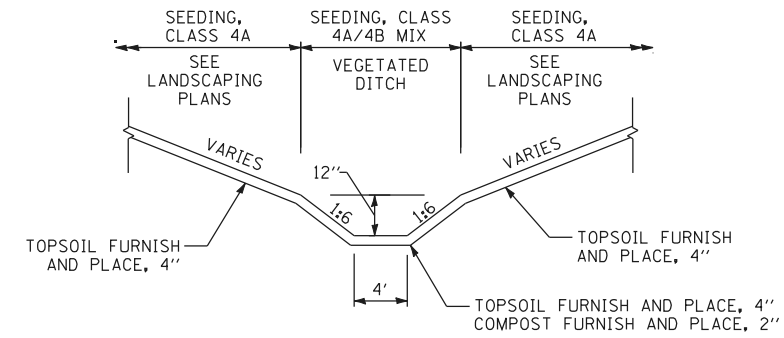
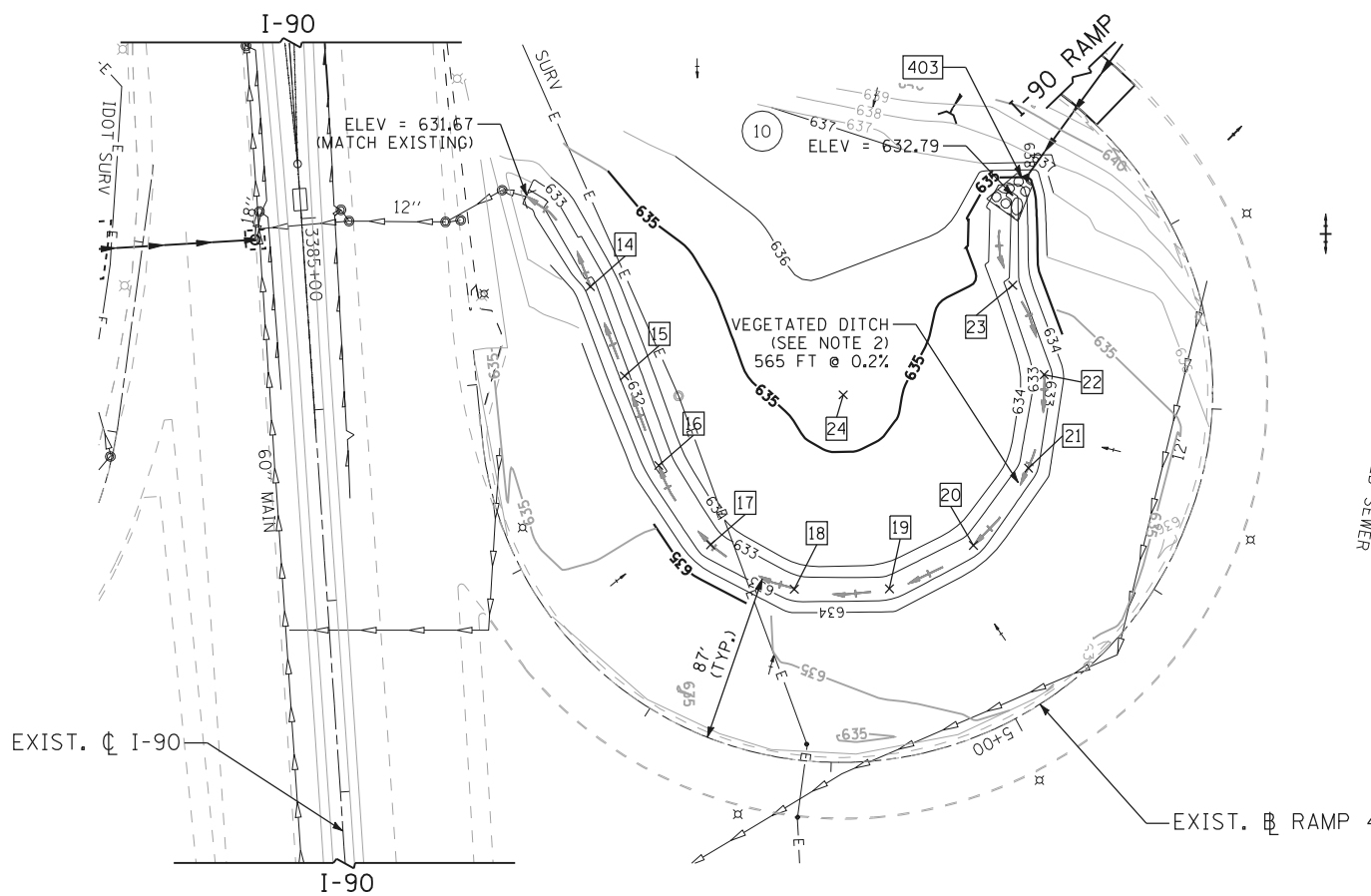
SCALE: 1" = 50'

EXISTING

PROPOSED



- NOTES:**
- SEE SHEET DU-10 FOR DRAINAGE STRUCTURE TABLES.
 - VEGETATED DITCH TO BE PAID FOR AS EARTH EXCAVATION; TOPSOIL FURNISH AND PLACE, 4"; COMPOST FURNISH AND PLACE, 2"; AND SEEDING, CLASS 4A AND SEEDING CLASS 4B. SEE BIO-SWALE DETAIL.
 - OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE LOCATED IN THE GUTTER ARE GIVEN AT THE EDGE OF PAVEMENT.
 - OFFSETS AND TOP OF FRAME AND LID ELEVATIONS FOR STRUCTURES WHICH ARE NOT LOCATED IN THE GUTTER ARE GIVEN AT THE CENTER OF STRUCTURE.



SCALE: 1" = 50'

NORTHEAST INFELD PROPOSED ELEVATIONS			
POINT	N	E	ELEVATION
14	1937445.74	1119514.12	631.79
15	1937463.88	1119560.83	631.89
16	1937481.43	1119607.54	631.99
17	1937508.51	1119648.94	632.09
18	1937552.19	1119672.17	632.19
19	1937601.87	1119671.94	632.29
20	1937645.73	1119649.25	632.39
21	1937674.51	1119608.94	632.49
22	1937682.64	1119560.13	632.59
23	1937666.20	1119513.48	632.69
24	1937577.84	1119572.00	635.50

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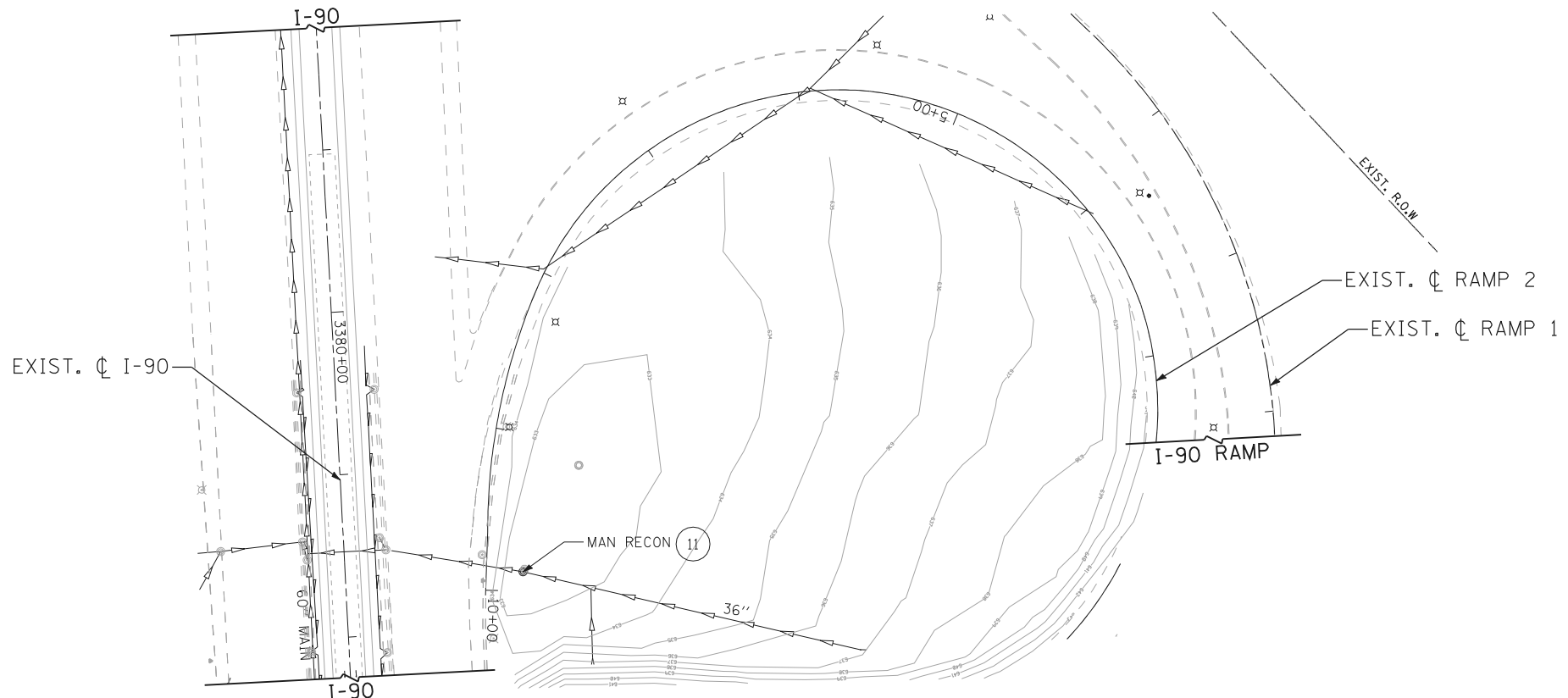
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES PLAN
 I-90 NORTHEAST INFELD**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 109+00 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	115
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

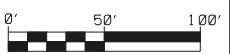
DU-07



NOTES:
 ALL EXISTING STORM SEWERS WITHIN PROJECT LIMITS TO BE CLEANED (PAID FOR AS VIDEO INSPECTION OF STORM SEWER). SEE SCHEDULE FOR DETAILS.

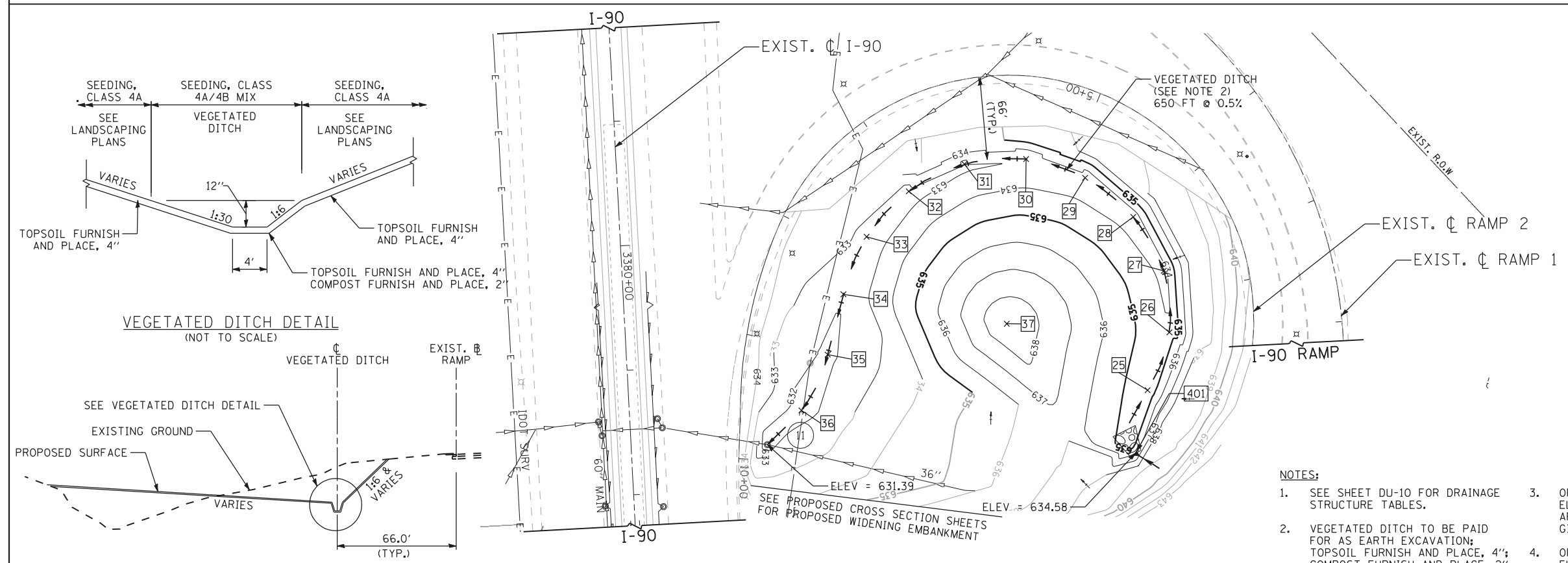
EXISTING DRAINAGE STRUCTURES

11	MANHOLE
	STA 3381+66, 109' LT
	RIM = 631.87
	N INV = 623.42
	S INV = 623.42



SCALE: 1" = 50'

EXISTING
 PROPOSED



NORTHWEST INFIELD PROPOSED ELEVATIONS			
POINT	N	E	ELEVATION
25	1937685.75	1119089.30	634.33
26	1937701.88	1119042.42	634.08
27	1937697.23	1118993.39	633.83
28	1937672.11	1118950.50	633.58
29	1937633.06	1118919.75	633.33
30	1937585.47	1118905.38	633.08
31	1937536.00	1118910.28	632.83
32	1937491.62	1118932.72	632.58
33	1937458.34	1118969.66	632.33
34	1937440.49	1119016.09	632.08
35	1937428.58	1119064.65	631.83
36	1937408.11	1119109.75	631.58
37	1937571.95	1119037.78	639.00



SCALE: 1" = 50'

- NOTES:
- SEE SHEET DU-10 FOR DRAINAGE STRUCTURE TABLES.
 - VEGETATED DITCH TO BE PAID FOR AS EARTH EXCAVATION; TOPSOIL FURNISH AND PLACE, 4"; COMPOST FURNISH AND PLACE, 2"; AND SEEDING, CLASS 4A AND SEEDING CLASS 4B. SEE BIO-SWALE DETAIL.
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TYPICAL INFIELD SECTION
 (NOT TO SCALE)

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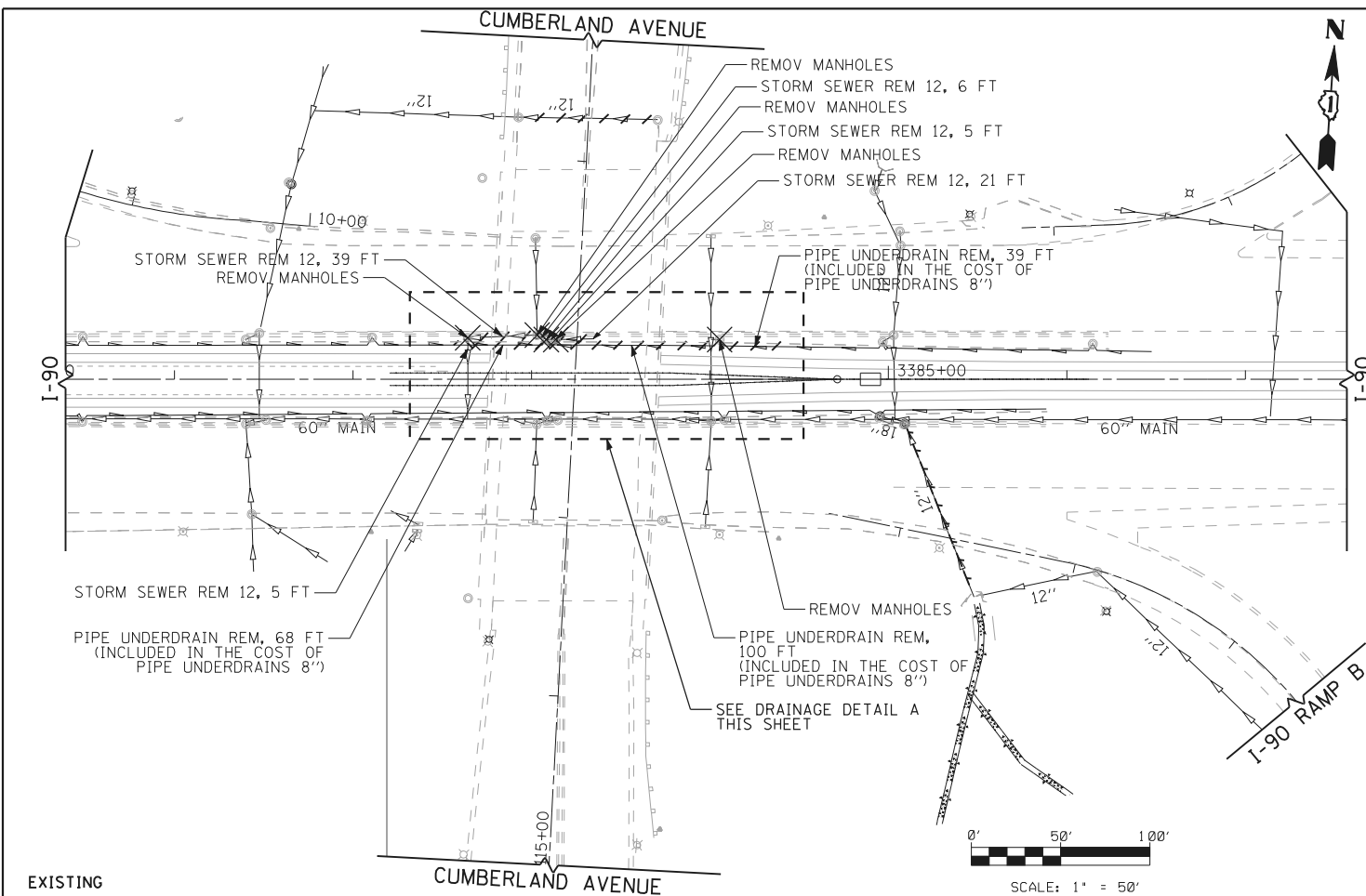
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
 I-90 NORTHWEST INFIELD

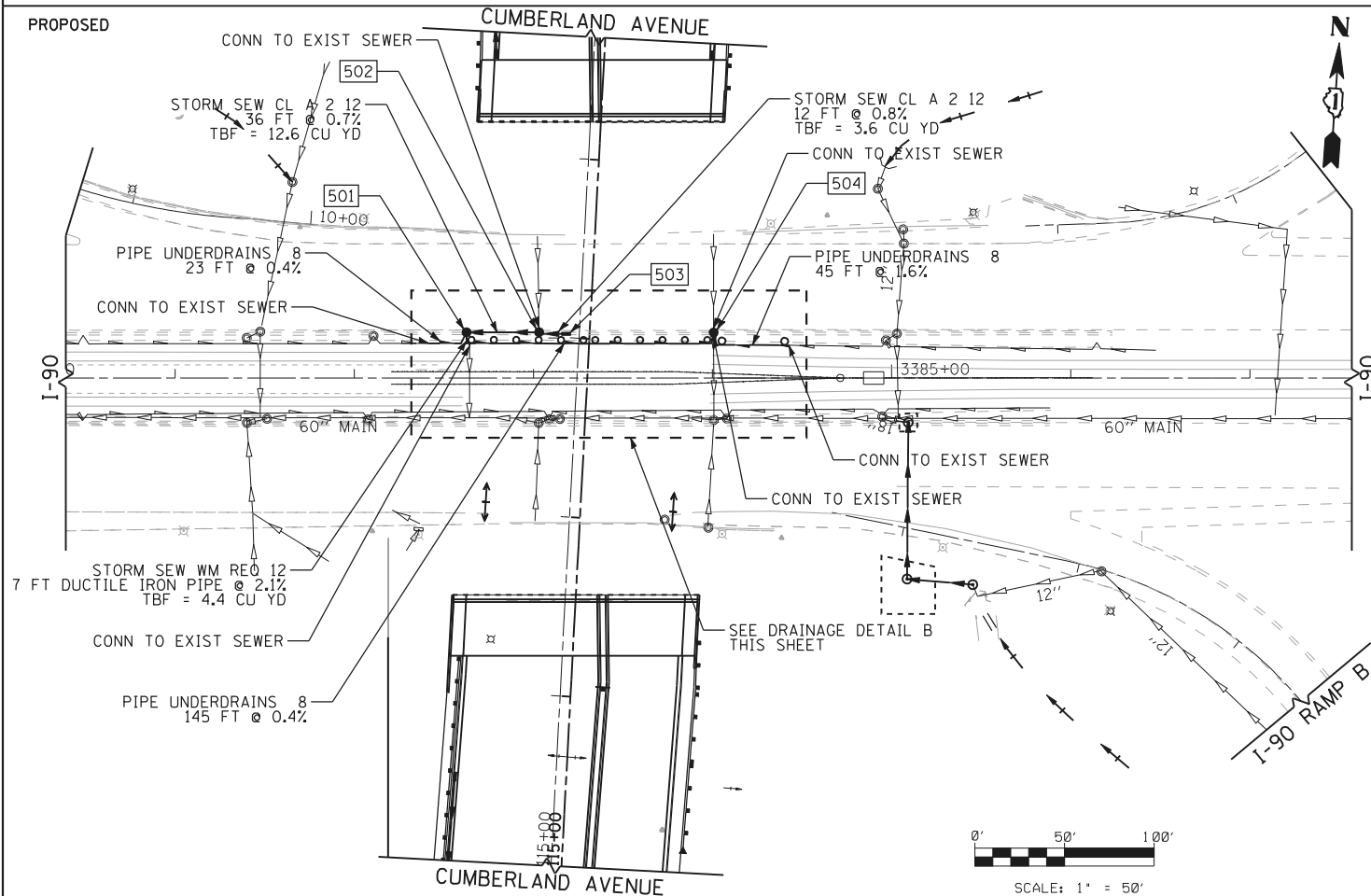
SCALE: 1"=50' SHEET NO. OF SHEETS STA. 94+99.21 TO STA. 109+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	116
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

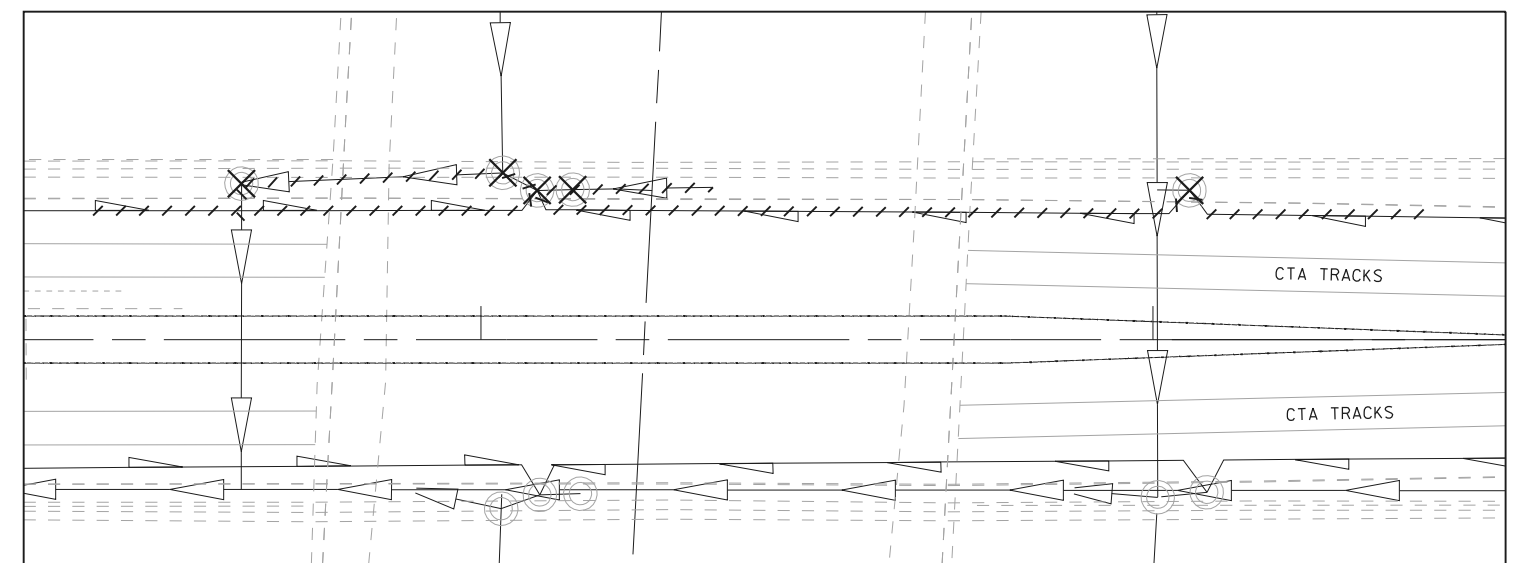
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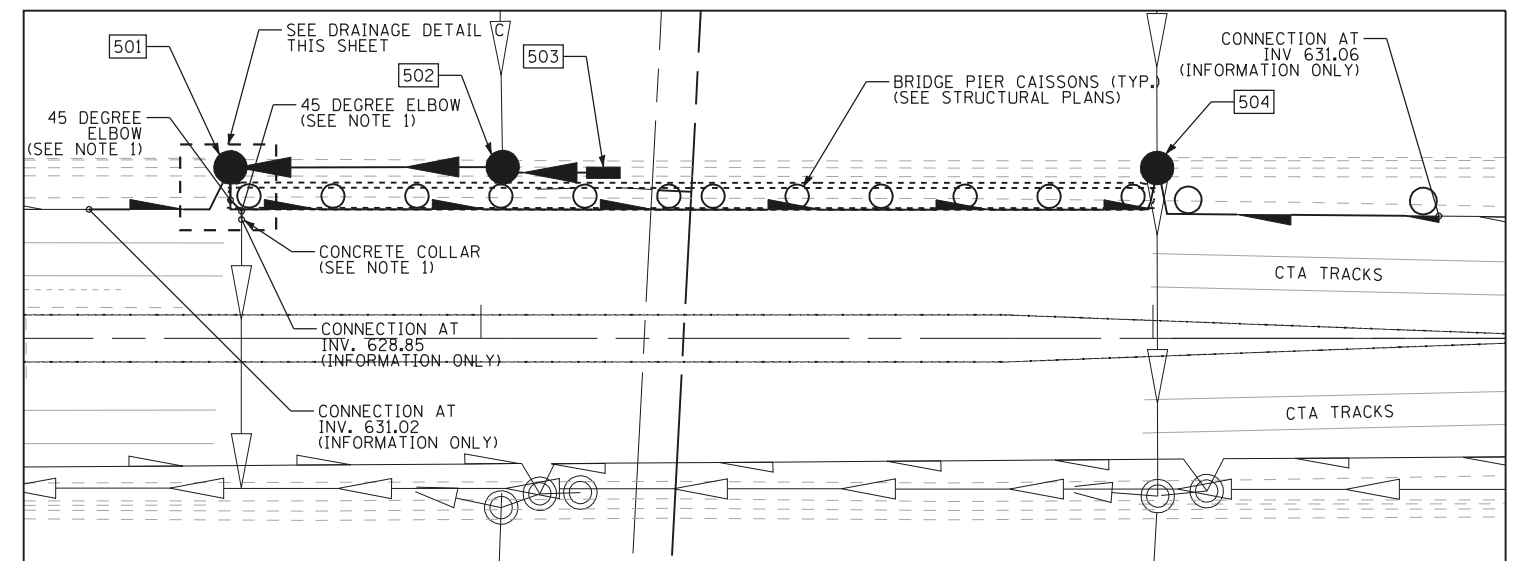
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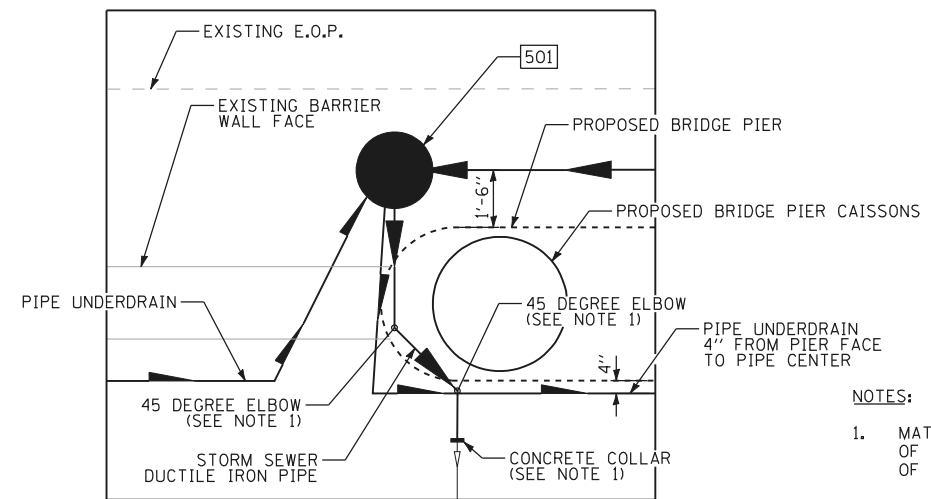
PROPOSED



DETAIL A: EXISTING I-90 DRAINAGE ENLARGED VIEW (NOT TO SCALE)



DETAIL B: PROPOSED I-90 DRAINAGE ENLARGED VIEW (NOT TO SCALE)



DETAIL C: PROPOSED I-90 DRAINAGE ENLARGED VIEW (NOT TO SCALE)

NOTES:

1. MATERIAL AND LABOR REQUIRED FOR INSTALLATION OF ELBOWS AND COLLARS IS INCLUDED IN THE COST OF THE SEWER.
2. SEE SHEET DU-10 FOR DRAINAGE STRUCTURE TABLES.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PLAN
CUMBERLAND AVENUE

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 3380+39 TO STA. 3387+57

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	117
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

DU-09

PROPOSED DRAINAGE STRUCTURES

101	STA 97+29, 41' LT INLETS TA T24F&G RIM = 634.16 N INV = 631.76	114	STA 111+79, 59' LT CB TA 4 DIA T24F&G RIM = 644.45 S INV = 641.28 (EXIST S.S.) S INV = 641.28	125	STA 119+56, 59' LT INLETS TA T24F&G RIM = 653.46 N INV = 649.12	137	STA 127+63, 45' LT CB TC T24F&G RIM = 635.58 E INV = 631.82 S INV = 633.31 (PIPE UNDERDRAIN OUTLET)	304	NOT USED	402	STA 122+81, 101' RT PRC FLAR END SEC 12 GRATING-C FL END S 12 FES INV = 633.62
102	STA 7+18, 65' RT CB TC T24F&G RIM = 633.65 NE INV = 630.70	115	STA 112+48, 65' LT CB TA 4 DIA T24F&G RIM = 645.75 S INV = 641.21 (EXIST S.S.) N INV = 641.81	126	STA 121+29, 75' LT CB TA 4 DIA T24F&G RIM = 645.85 NW INV = 640.50 S INV = 642.00	201	STA 11+35, 40' LT CB TC T24F&G RIM = 635.70 SW INV = 625.36	305	NOT USED	403	STA 121+65, 155' RT PRC FLAR END SEC 24 GRATING-C FL END S 24 FES INV = 632.79
103	STA 6+61, 60' RT CB TC T24F&G RIM = 633.06 NE INV = 628.81	116	STA 113+00, 65' LT CB TA 4 DIA T24F&G RIM = 647.08 W INV = 643.58 N INV = 643.58 S INV = 643.57	127	STA 122+14, 138' LT MAN TA 4 DIA T1F CL RIM = 643.18 SW INV = 643.80 SE INV = 635.80	202	STA 12+38, 40' LT CB TC T24F&G RIM = 635.50 S INV = 632.09	306	NOT USED	404	STA 116+74, 221' RT MAN TA 4 DIA T1F CL RIM = 633.27 S INV = 626.63 (EX S.S.) W INV = 626.62
104	STA 101+40, 53' LT CB TC T24F&G RIM = 633.79 E INV = 631.46	116A	STA 113+00, 80' LT INLET TA T8G RIM = 647.02 E INV = 643.71	127A	STA 123+02, 87' LT CB TA 4 DIA T8G RIM = 635.41 SW INV = 629.70 SE INV = 629.52	203	STA 13+31, 36' RT CB TC T24F&G RIM = 636.03 N INV = 631.03 (EXIST S.S.)	307	NOT USED	405	STA 116+79, 184' RT MAN TA 4 DIA T1F CL RIM = 633.36 E INV = 626.45 N INV = 626.44
105	STA 102+83, 53' LT CB TC T24F&G RIM = 633.27 E INV = 630.94	117	STA 113+98, 64' LT CB TA 4 DIA T24F&G RIM = 650.93 S INV = 646.91 N INV = 647.01	128	STA 123+79, 67' LT INLET TA, T24F&G RIM = 636.36 S INV = 632.86	204	STA 12+16, 36' RT CB TC T24F&G RIM = 635.92 N INV = 630.87 (EXIST S.S.)	308	NOT USED	406	STA 117+63, 180' RT MAN TA 4 DIA T1F CL RIM = 635.69 NW INV = 630.14 (EX S.S.) NW INV = 626.09 (EX S.S.) S INV = 626.09
106	STA 104+27, 53' LT CB TC T24F&G RIM = 632.95 NE INV = 630.62	118	STA 115+52, 60' LT INLETS TA T24F&G RIM = 656.51 S INV = 652.25	129	STA 119+61, 59' RT INLETS TA T24F&G RIM = 653.29 N INV = 647.50	205	STA 7+57, 48' RT CB TC T24F&G RIM = 635.65 N INV = 630.65 (EXIST S.S.)	309	STA 21+61, 21' LT INLETS TA T24F&G RIM = 639.95 E INV = 634.34	407	STA 121+27, 120' RT CONC HDWL FOR P DRAIN FES INV=638.50
107	STA 106+27, 48' LT INLETS TA T24F&G RIM = 632.35 W INV = 629.56	119	STA 111+97, 15' RT INLETS TA T24F&G RIM = 646.13 E INV = 640.87	130	STA 121+12, 71' RT CB TA 4 DIA T24F&G RIM = 646.84 N INV = 640.60 S INV = 640.80	206	STA 6+83, 48' RT CB TC T24F&G RIM = 635.27 N INV = 630.97 (EXIST S.S.)	310	STA 21+76, 21' LT CB TA 4 DIA T24F&G RIM = 639.86 W INV = 634.20 N INV = 634.50 S INV = 634.10	501	STA 118+00, 69' LT CB TA 4 DIA T1F OL RIM = 634.85 E INV = 629.26 S INV = 629.00 SW INV = 630.93 SE INV = 630.93
108	STA 106+52, 48' LT INLETS TA T24F&G RIM = 632.66 N INV = 629.82	120	STA 114+56, 11' RT INLETS TA T24F&G RIM = 640.49 NE INV = 650.18	131	STA 122+66, 54' RT CB TA 4 DIA T24F&G RIM = 640.64 SE INV = 636.08 S INV = 638.64 (UNDERDRAIN OUTLET) N INV = 638.64 (UNDERDRAIN CLEANOUT)	207	STA 5+41, 48' RT CB TC T24F&G RIM = 634.42 N INV = 631.11	310A	STA 110+47, 85' LT INLETS TA T24F&G RIM = 643.00 S INV = 635.10	502	STA 118+02, 28' LT CB TA 4 DIA T1F OL RIM = 634.76 N INV = 629.61 (EX S.S.) E INV = 629.61 W INV = 629.50
109	STA 106+86, 47' LT CB TA 4 DIA T24F&G RIM = 632.85 W INV = 628.08 N INV = 629.68 S INV = 629.68	120A	STA 110+41, 106' RT INLETS TA T24F&G RIM = 642.60 W INV = 634.57	132	STA 122+22, 78' RT CB TA 5 DIA T1F CL (CONC. FLAT SLAB TOP) RIM = 641.69 NW INV = 635.84 S INV = 637.30 NE INV = 633.34 SE INV = 633.24	208	STA 4+58, 44' RT CB TC T24F&G RIM = 633.93 N INV = 630.14	311	STA 2+29, 0' CB TA 4 DIA T24F&G RIM = 634.99 N INV = 631.45 S INV = 631.35	503	STA 118+03, 13' LT INLETS TA T1F OL RIM = 634.37 W INV = 629.70
110	NOT USED	121	STA 111+77, 83' RT INLETS TA T24F&G RIM = 644.15 NW INV = 637.82	133	STA 124+37, 110' RT CB TC T24F&G RIM = 635.90 N INV = 632.10 SW INV = 633.90 (UNDERDRAIN OUTLET)	209	STA 3+67, 35' RT CB TC T24F&G RIM = 633.59 N INV = 630.69	312	STA 4+07, 0' CB TA 4 DIA T24F&G RIM = 632.25 N INV = 627.75 S INV = 627.65 E INV = 627.75	504	STA 118+07, 69' LT CB TA 4 DIA T1F OL RIM = 634.91 N INV = 629.79 (EX S.S.) S INV = 629.72 (EX S.S.) SW INV = 630.32 SE INV = 630.32
111	STA 8+70, 28' RT CB TC T24F&G RIM = 633.71 NW INV = 629.29	122	STA 112+00, 65' RT CB TA 4 DIA T24F&G RIM = 644.79 NE INV = 637.68 (EXIST S.S.) SE INV = 637.68 W INV = 637.68	134	STA 124+80, 86' LT CB TA 4 DIA T24F&G RIM = 636.04 N INV = 632.26	301	STA 18+42, 25.5' RT INLETS TA T10F&G RIM = 635.87 NW INV = 633.31 •BOT STR = 631.15	313	STA 4+22, 0' CB TA 4 DIA T24F&G RIM = 632.23 N INV = 627.35 SW INV = 623.56		
112	STA 8+71, 29' LT CB TC T24F&G RIM = 633.72 W INV = 626.75	123	STA 112+66, 53' RT CB TA 4 DIA T24F&G RIM = 646.45 SE INV = 639.62 (EXIST S.S.) N INV = 640.62	135	STA 125+82, 117' LT INLETS TA T24F&G RIM = 635.84 S INV = 630.05	302	STA 17+02, 25.5' RT CB TC T10F&G RIM = 635.44 NW INV = 632.69 SE INV = 632.69 •BOT STR = 630.60	313A	STA 4+38, 6' RT MAN TYPE B T IF CL (CHGO) RIM = 632.70 E INV = 623.24 W INV = 623.24 NE INV = 623.24		
113	STA 111+61, 60' LT INLETS TA T24F&G RIM = 644.65 N INV = 641.60	124	STA 114+86, 56' RT CB TA 4 DIA T24F&G RIM = 654.87 S INV = 649.63 SW INV = 649.63	136	STA 126+71, 52' LT CB TC T10F&G RIM = 635.75 E INV = 631.78 S INV = 633.66 (UNDERDRAIN OUTLET) N INV = 633.66 (UNDERDRAIN CLEANOUT)	303	STA 15+63, 21' RT CB TC T10F&G RIM = 635.02 NW INV = 632.18 SE INV = 632.18 •BOT STR = 630.79	401	STA 1+07, 51' LT PRC FLAR END SEC 12 GRATING-C FL END S 12 FES INV = 634.58		

* BOTTOM OF STRUCTURE ELEVATION PROVIDED FOR MINIMUM 6" CLEARANCE ABOVE THE PROPOSED RETAINING WALL FOOTING

NOTE:
THE FINAL RIM ELEVATION OF ALL PROPOSED, ADJUSTED, OR RECONSTRUCTED DRAINAGE STRUCTURES SHALL BE DETERMINED FROM THE FINISHED GRADES OF THE PROPOSED PAVEMENT SURFACE AND CUTTER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE FINAL RIM ELEVATION OF ALL DRAINAGE STRUCTURES PRIOR TO STARTING ANY DRAINAGE WORK.

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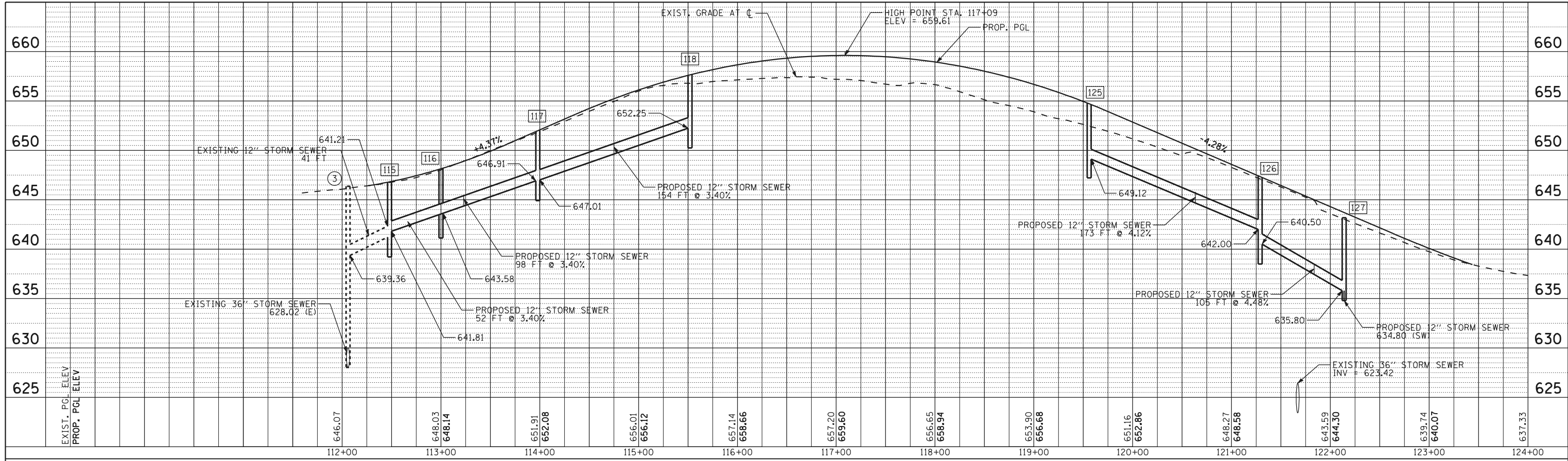
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES STRUCTURE SCHEDULE
CUMBERLAND AVENUE AT I-90

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

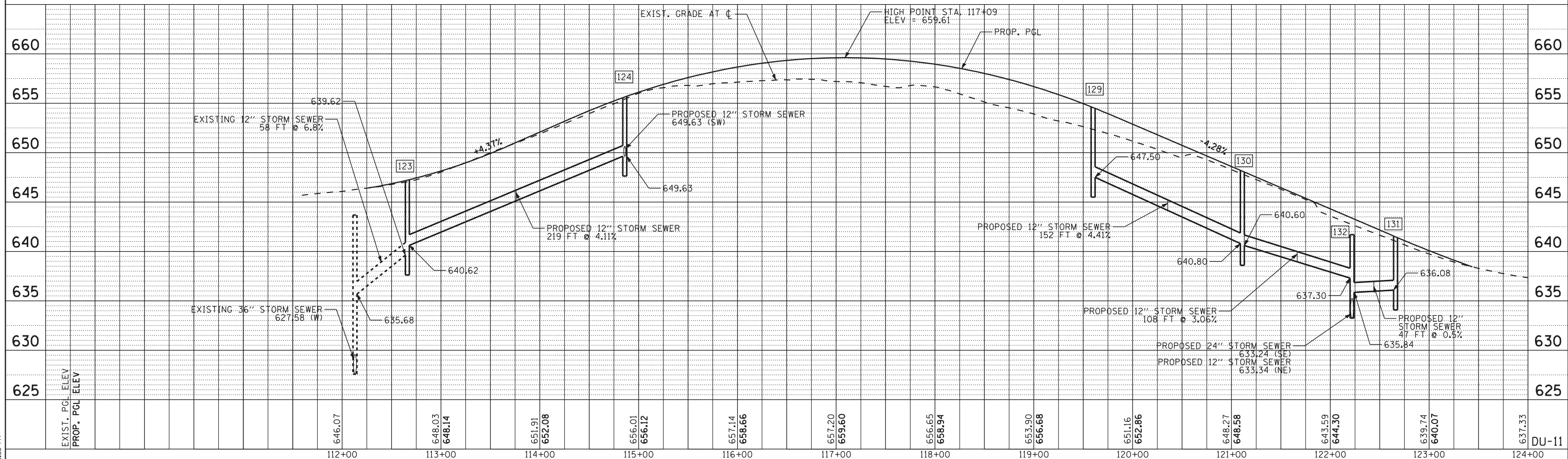
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	118
CONTRACT NO. 60J14				DU-10
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



CUMBERLAND AVENUE DRAINAGE PROFILE - WEST
CUMBERLAND AVENUE DRAINAGE PROFILE - EAST

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



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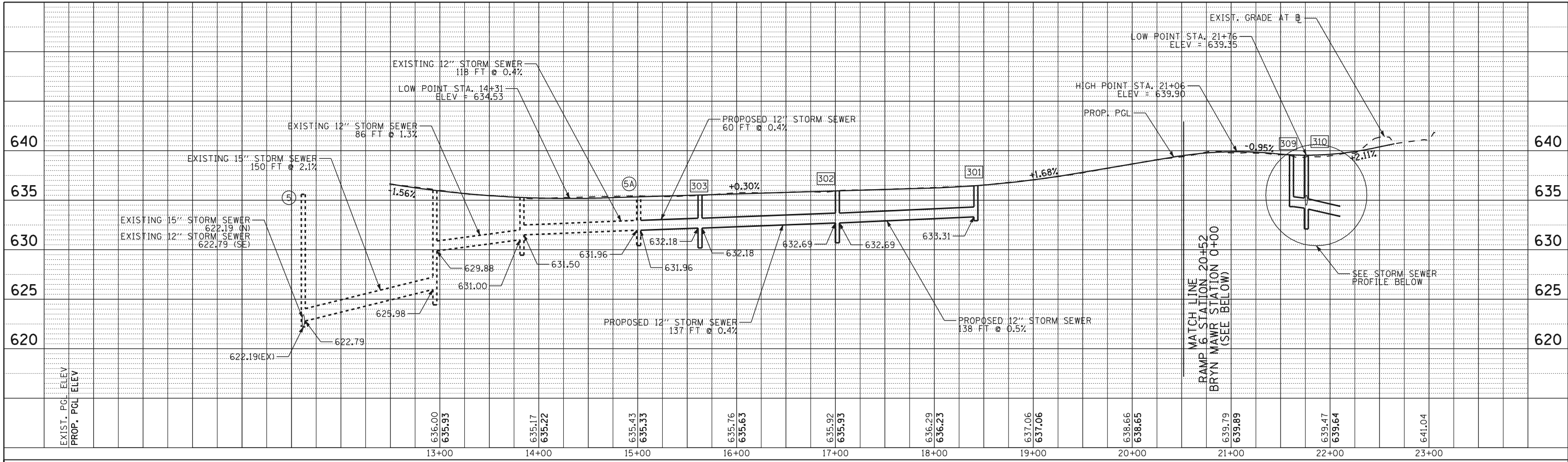
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PROFILE		
CUMBERLAND AVENUE		
SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. 109+00 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	119
CONTRACT NO. 60J14				ILLINOIS FED. AID PROJECT

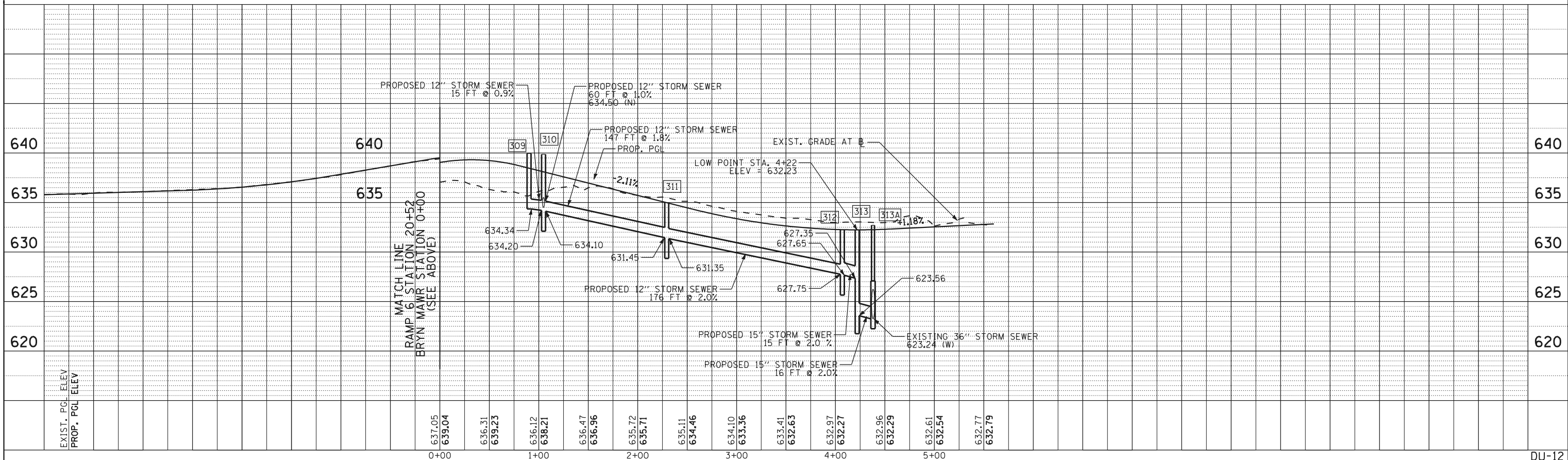
DU-11

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



I-90 RAMP 6 DRAINAGE PROFILE - SOUTH
I-90 RAMP 6/BRYN MAWR DRAINAGE PROFILE

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



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USER NAME - cgutowski	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE - 1:100	CHECKED - DT	REVISED -
PLOT DATE - 2/18/2013	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITIES PROFILE
I-90 RAMP 6

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

F.A.U. RTE. 2746	SECTION 1616B	COUNTY COOK	TOTAL SHEETS 404	SHEET NO. 120
CONTRACT NO. 60J14			ILLINOIS FED. AID PROJECT	

DU-12

X0323160 VIDEO INSPECTION OF STORM SEWER (STORM SEWERS TO BE CLEANED)							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-01	95+23	24	RT	94+99	24	RT	47
DU-01	95+20	24	RT	95+14	37	LT	61
DU-01	95+23	24	RT	95+23	37	RT	14
DU-01	96+14	24	RT	95+23	32	RT	91
DU-01	96+55	32	RT	96+14	32	RT	41
DU-01	96+56	32	RT	96+55	40	RT	8
DU-01	96+55	40	LT	96+53	32	RT	72
DU-01	97+62	37	RT	97+85	40	LT	82
DU-01	97+62	37	RT	97+69	30	RT	10
DU-01	97+69	30	RT	101+52	35	RT	383
DU-01	101+47	51	LT	101+41	38	LT	15
DU-01	101+52	35	RT	103+12	35	RT	160
DU-01	102+94	50	LT	102+86	36	LT	16
DU-01	103+03	41	RT	103+11	35	RT	10
DU-01	103+11	35	RT	104+77	37	RT	165
DU-01	104+77	45	LT	104+40	37	RT	90
DU-01	104+30	87	RT	104+30	51	RT	36
DU-01	104+30	51	RT	104+64	42	RT	35
DU-01	104+64	42	RT	104+76	37	RT	14
DU-01	104+66	45	RT	104+76	37	RT	13
DU-01	106+19	97	LT	105+57	59	LT	72
DU-01	106+53	60	RT	106+26	217	LT	278
DU-01	106+53	60	RT	106+26	217	LT	278
DU-01	104+77	37	RT	105+49	39	RT	73
DU-01	105+48	60	LT	105+49	39	RT	99
DU-01	105+49	39	RT	105+50	65	RT	25
DU-01	107+31	43	LT	108+39	43	LT	109
DU-01	107+19	60	RT	106+5	57	RT	66
DU-01	108+29	57	RT	107+19	70	RT	111
DU-01	109+00	70	RT	108+29	70	RT	71
DU-02	109+18	71	RT	109+00	70	RT	18
DU-02	110+40	55	RT	110+11	98	RT	51
DU-02	110+41	93	LT	110+79	166	LT	84
DU-02	111+76	66	LT	111+78	58	LT	8
DU-02	111+76	66	LT	112+06	67	LT	29
DU-02	112+06	67	LT	112+07	94	LT	28
DU-02	112+12	67	LT	112+06	84	RT	150
DU-02	111+93	58	RT	112+12	84	RT	32
DU-02	112+61	64	RT	112+56	142	RT	73
DU-02	112+79	84	RT	112+12	57	RT	72
DU-02	112+50	67	LT	112+06	61	LT	39
DU-02	122+94	75	LT	119+43	149	LT	359
DU-02	124+00	75	LT	122+94	53	LT	108
DU-02	123+42	44	LT	123+41	65	LT	21
DU-03	125+20	53	LT	124+00	28	LT	123
DU-03	126+43	1	LT	125+20	28	LT	126
DU-03	126+55	79	RT	126+80	38	RT	48
DU-03	126+73	39	LT	126+80	38	RT	77
DU-03	126+80	38	RT	127+14	41	RT	33
DU-03	127+14	41	RT	127+14	77	RT	37
DU-03	127+14	34	RT	127+14	1	LT	34

X0323160 VIDEO INSPECTION OF STORM SEWER (STORM SEWERS TO BE CLEANED)							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
CUMBERLAND							
DU-03	128+14	1	LT	125+43	1	LT	170
DU-03	127+63	39	LT	128+63	0	RT	39
DU-03	128+01	29	RT	128+16	15	RT	21
DU-03	128+16	15	LT	128+14	1	RT	16
DU-03	129+84	1	LT	128+14	0	LT	170
DU-03	128+80	26	LT	128+79	1	RT	26
DU-03	129+17	35	LT	129+17	1	LT	35
DU-03	129+49	25	RT	129+83	0	LT	42
DU-03	130+13	31	LT	130+13	0	LT	30
DU-03	131+61	0	LT	129+84	1	LT	177
DU-03	130+51	24	RT	130+62	16	RT	14
DU-03	130+62	16	RT	130+62	1	LT	16
DU-03	131+49	25	LT	131+50	1	LT	24
DU-03	131+50	25	RT	131+50	15	RT	9
DU-03	131+50	15	RT	131+61	1	LT	20
DU-03	132+00	1	LT	131+61	1	LT	39
BRYN MAWR							
DU-01	0+59	32	RT	0+00	34	RT	58
DU-01	0+72	34	RT	0+59	36	RT	9
DU-01	1+59	36	RT	0+72	28	LT	98
DU-01	1+67	28	LT	1+59	21	LT	12
DU-01	1+64	28	LT	1+67	21	LT	7
DU-01	1+62	21	LT	1+67	82	LT	66
DU-01	1+71	49	LT	2+62	17	LT	112
DU-01	2+51	30	RT	2+51	28	LT	58
DU-01	2+51	28	LT	2+62	17	LT	15
DU-01	3+46	17	LT	2+62	23	LT	85
DU-01	4+45	24	LT	3+46	24	LT	99
DU-01	3+50	23	LT	3+46	28	LT	6
DU-01	3+55	28	LT	3+50	31	RT	60
DU-01	4+76	24	LT	4+66	29	LT	11
DU-01	4+71	24	LT	4+66	38	RT	63
DU-01	5+69	32	RT	5+68	26	LT	58
DU-01	7+33	26	LT	6+04	28	RT	119
DU-01	6+57	26	LT	6+04	47	RT	90
DU-01	6+04	26	LT	4+45	24	LT	159
DU-01	7+30	36	RT	7+33	28	RT	8
DU-01	8+69	24	LT	8+30	28	RT	65
DU-01	15+23	14	RT	14+97	70	LT	79
HIGGINS							
DU-04	3+66	32	RT	3+67	4	RT	28
DU-04	3+47	4	RT	3+62	4	RT	21
DU-04	3+81	31	LT	3+81	4	RT	35
DU-04	4+57	4	RT	4+54	35	RT	31
DU-04	3+67	4	RT	6+38	4	RT	272
DU-04	5+04	29	LT	5+06	4	RT	33
DU-04	5+43	40	RT	5+49	4	RT	37
DU-04	6+05	27	LT	6+05	4	RT	31
DU-04	6+83	4	RT	6+80	50	RT	45
DU-04	7+05	31	LT	7+04	5	RT	35
DU-04	6+38	4	RT	7+84	5	RT	146

X0323160 VIDEO INSPECTION OF STORM SEWER (STORM SEWERS TO BE CLEANED)							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
HIGGINS							
DU-04	7+56	51	RT	7+84	5	RT	54
DU-04	7+84	5	RT	9+56	4	RT	172
DU-04	8+56	36	LT	8+53	5	RT	41
DU-04	9+07	52	RT	9+03	4	RT	47
DU-04	8+80	80	LT	9+01	69	LT	24
DU-04	9+01	69	LT	9+57	70	LT	56
DU-04	11+05	4	RT	9+56	4	RT	149
DU-04	10+95	52	RT	11+05	4	RT	48
DU-04	11+31	37	LT	11+05	4	RT	48
DU-04	12+36	4	RT	11+05	4	RT	131
DU-04	12+17	45	RT	12+10	3	RT	43
DU-04	12+38	37	LT	12+36	4	RT	41
DU-04	13+95	4	RT	12+36	3	RT	159
DU-04	13+30	38	RT	13+24	4	RT	34
DU-04	13+95	38	LT	13+95	3	RT	41
DU-04	15+48	3	RT	13+95	4	RT	153
DU-04	15+73	38	RT	14+63	89	RT	128
DU-04	15+32	35	LT	15+48	4	RT	42
DU-04	16+61	4	RT	15+48	3	RT	113
I-90 RAMP 1							
DU-02	1+56	61	LT	0+30	26	LT	145
DU-08	3380+35	471	RT	3381+21	301	RT	381
I-90 RAMP 2							
DU-02	2+00	1	RT	2+37	52	RT	60
I-90 RAMP 6							
DU-05	12+97	143	LT	10+87	91	LT	159
DU-05	11+62	37	LT	11+43	111	LT	78
DU-05	14+02	16	LT	11+62	37	LT	255
DU-05	15+42	27	LT	14+02	16	LT	141
DU-05	15+62	16	LT	15+42	27	LT	23
DU-05	16+46	10	LT	17+30	17	LT	84
DU-05	17+30	17	LT	19+28	28	LT	200
DU-05	18+85	49	LT	19+28	28	LT	47
DU-05	19+49	73	LT	19+28	28	LT	50
DU-05	19+84	9	LT	19+28	28	LT	59
DU-05	20+77	59	LT	19+28	28	LT	152
I-90 RAMP 7							
DU-06	1+48	49	RT	4+49	2	LT	322
DU-06	3+52	68	RT	3+63	0	RT/LT	73
DU-06	4+49	2	LT	4+88	37	LT	49
DU-06	5+89	10	LT	8+50	30	LT	235
DU-06	7+86	0	LT	8+50	30	LT	71
I-90							
DU-06	3384+96	118	LT	3384+99	21	RT	139
DU-07	3386+26	95	LT	3387+13	21	RT	199
DU-07	2+34	6	LT	3388+50	185	LT	450
DU-08	3381+65	109	LT	3381+65	8	RT	117
DU-08	3382+24	318	LT	3381+65	109	LT	217
TOTAL							12221

PRE-CONSTRUCTION
POST-CONSTRUCTION

X0323160 I-90 RAMP 12.scheduledgn
 2/18/2013 2:06:00 PM

USER NAME = cgotowski	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE = 1:100	CHECKED - DT	REVISED -
PLOT DATE = 2/18/2013	DATE - 2/18/2013	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCHEDULE
CUMBERLAND AVENUE AT I-90**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	121
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J14	

DU-13

550A0330 - STORM SEWERS, CLASS A, TYPE 2 10"							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-04	12+38	42	LT	12+38	36	LT	5
TOTAL							5

550A0340 - STORM SEWERS, CLASS A, TYPE 2 12"							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-01	7+18	67	RT	7+31	36	RT	34
DU-01	6+56	63	RT	6+57	46	RT	17
DU-01	8+70	28	RT	8+67	23	RT	5
DU-01	8+70	29	LT	8+65	30	LT	5
DU-01	106+86	47	LT	4+15	0	RT	33
DU-01	107+31	43	LT	106+86	48	LT	45
DU-01	106+86	48	LT	106+52	49	LT	34
DU-01	2+30	1	RT	3+89	2	RT	176
DU-02	1+05	63	LT	2+29	0	RT	147
DU-02	21+61	21	LT	21+76	21	LT	15
DU-02	110+47	85	LT	109+94	113	LT	60
DU-02	111+61	61	LT	111+79	61	LT	16
DU-02	111+79	61	LT	111+79	66	LT	5
DU-02	113+00	66	LT	112+48	66	LT	52
DU-02	113+98	66	LT	113+00	66	LT	98
DU-02	115+52	62	LT	113+98	66	LT	154
DU-02	110+42	105	RT	110+40	98	RT	5
DU-02	111+78	83	RT	112+00	66	RT	28
DU-02	111+98	9	RT	112+00	66	RT	50
DU-02	113+00	80	LT	113+00	66	LT	13
DU-02	114+86	58	RT	112+66	54	RT	219
DU-02	114+56	11	RT	114+86	58	RT	55
DU-02	119+56	60	LT	121+29	76	LT	173
DU-02	121+29	76	LT	122+14	138	LT	105
DU-02	122+14	138	LT	121+77	161	LT	44
DU-02	119+60	60	RT	121+11	73	RT	152
DU-02	121+11	73	RT	122+22	78	RT	108
DU-02	122+66	56	RT	122+22	78	RT	47
DU-02	122+77	100	RT	122+22	78	RT	57
DU-02	123+79	67	LT	123+02	87	LT	79
DU-02	123+02	87	LT	122+94	60	LT	10
DU-04	125+82	117	LT	125+76	125	LT	5
DU-04	124+37	110	RT	11+05	4	RT	50
DU-04	11+35	42	LT	11+31	37	LT	5
DU-05	18+42	26	RT	17+02	26	RT	138
DU-05	17+02	26	RT	15+63	21	RT	137
DU-05	155+63	4	RT	15+01	21	RT	60
DU-06	116+75	184	RT	116+83	184	RT	37
DU-09	118+03	13	LT	118+02	28	LT	12
DU-09	118+02	28	LT	118+00	69	LT	36
TOTAL							2521

550A0360 - STORM SEWERS, CLASS A, TYPE 2 15"							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-01	3+89	2	RT	4+04	1	RT	15
DU-01	4+04	1	RT	4+39	11	RT	16
TOTAL							31

550A0410 - STORM SEWERS, CLASS A, TYPE 2 24"							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-02	121+67	152	RT	122+22	78	RT	89
TOTAL							89

Z0056606 - STORM SEWER (WATER MAIN REQUIREMENTS) 10 INCH							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-04	3+67	36	RT	3+67	31	RT	5
DU-04	4+58	45	RT	4+57	34	RT	11
DU-04	5+41	50	RT	5+43	40	RT	10
TOTAL							26

Z0056608 - STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH FOOT
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-01	97+29	41	LT	97+85	40	LT	56
DU-01	101+40	55	LT	101+48	39	LT	17
DU-01	102+83	55	LT	102+94	36	LT	22
DU-01	104+27	53	LT	104+40	45	LT	17
DU-01	106+27	48	LT	106+19	59	LT	12
DU-03	126+71	54	LT	126+73	40	LT	15
DU-03	127+63	47	LT	127+64	38	LT	7
DU-04	124+73	86	LT	124+84	92	LT	4
DU-09	118+00	69	LT	117+92	67	LT	7
TOTAL							157

20800150 - TRENCH BACKFILL FOR STORM SEWER REMOVAL UNDER ROADWAY							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			VOLUME CU YD
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-01	106+55	60	LT	106+81	66	LT	9.7
DU-01	106+87	63	LT	106+81	66	LT	2.5
DU-01	107+31	43	LT	106+81	66	LT	24.1
DU-01	106+81	66	LT	106+45	65	LT	42.4
DU-02	115+00	46	LT	113+71	53	LT	42.0
DU-02	113+71	53	LT	112+80	57	LT	30.5
DU-02	112+80	57	LT	112+48	61	LT	12.3
DU-02	111+61	58	LT	111+79	58	LT	4.7
DU-02	111+97	58	LT	111+79	58	LT	4.5
DU-02	114+99	46	RT	113+70	53	RT	46.7
DU-02	113+70	53	RT	112+80	57	RT	32.1
DU-02	112+80	57	RT	112+66	60	RT	11.9
DU-02	111+79	61	RT	111+93	58	RT	6.8
DU-02	111+93	58	RT	112+00	66	RT	11.9
DU-02	123+40	45	RT	123+41	44	LT	134.2
DU-02	121+25	83	RT	121+18	57	LT	34.9
DU-02	119+25	39	RT	119+23	39	LT	77.9
DU-04	10+95	52	RT	11+05	4	LT	21.8
TOTAL							550.9

NOTE: ALL STORM SEWER, CLASS A, SHALL BE REINFORCED CONCRETE PIPE.

20800150 - TRENCH BACKFILL FOR NEW STORM SEWERS							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			VOLUME CU YD
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	
DU-01	97+29	41	LT	97+85	40	LT	3.3
DU-01	7+18	67	RT	7+31	36	RT	3.1
DU-01	6+56	63	RT	6+57	46	RT	3.9
DU-01	8+70	28	RT	8+67	23	RT	1.2
DU-01	8+70	29	LT	8+65	30	LT	4.0
DU-01	106+27	48	LT	106+19	59	LT	0.9
DU-01	106+86	47	LT	4+07	0	RT	8.9
DU-01	107+31	43	LT	106+86	48	LT	13.4
DU-01	106+86	48	LT	106+52	49	LT	3.3
DU-01	2+29	0	RT	4+07	0	RT	36.8
DU-01	4+07	0	RT	4+22	0	RT	4.3
DU-01	4+22	0	RT	4+38	6	LT	18.9
DU-01	101+40	55	LT	101+48	39	LT	0.5
DU-01	102+83	55	LT	102+94	36	LT	0.6
DU-01	104+27	53	LT	104+40	45	LT	1.1
DU-02	1+05	63	LT	2+29	18	LT	39.7
DU-02	21+61	21	LT	21+76	21	LT	5.2
DU-02	110+47	85	LT	109+94	113	LT	44.7
DU-02	111+61	61	LT	111+79	61	LT	1.7
DU-02	111+79	61	LT	111+77	66	LT	0.6
DU-02	113+00	80	LT	113+00	66	LT	1.8
DU-02	113+00	66	LT	112+48	66	LT	9.0
DU-02	113+98	66	LT	113+00	66	LT	17.3
DU-02	115+52	62	LT	113+98	66	LT	30.5
DU-02	110+42	105	RT	110+40	98	RT	4.7
DU-02	111+78	83	RT	112+00	66	RT	21.3
DU-02	111+98	9	RT	112+00	66	RT	18.8
DU-02	114+86	58	RT	112+66	54	RT	79.5
DU-02	114+56	11	RT	114+86	58	RT	15.6
DU-02	119+56	60	LT	121+29	76	LT	36.7
DU-02	121+29	76	LT	122+14	138	LT	73.8
DU-02	122+14	138	LT	121+77	161	LT	5.2
DU-02	119+60	60	RT	121+11	73	RT	95.7
DU-02	121+11	73	RT	122+22	78	RT	36.7
DU-02	122+66	56	RT	122+22	78	RT	15.4
DU-02	121+66	159	RT	122+22	78	RT	53.0
DU-02	123+79	67	LT	122+94	60	LT	21.0
DU-03	126+71	54	LT	126+73	40	LT	3.0
DU-03	127+63	47	LT	127+64	38	LT	1.3
DU-04	11+35	42	LT	11+31	37	LT	6.8
DU-04	12+38	42	LT	12+38	36	LT	0.7
DU-04	3+67	35	RT	3+67	30	RT	0.5
DU-04	4+58	45	RT	4+57	34	RT	2.0
DU-04	5+41	50	RT	5+43	40	RT	2.3
DU-04	124+80	86	LT	124+84	86	LT	0.7
DU-04	124+36	110	RT	11+05	4	RT	12.2
DU-04	125+82	117	LT	125+77	117	LT	2.0
DU-05	18+42	26	RT	17+02	26	RT	5.9
DU-05	17+02	26	RT	15+63	21	RT	8.1
DU-05	155+63	4	RT	15+01	21	RT	4.0
DU-09	118+03	13	LT	118+02	28	LT	3.6
DU-09	118+02	28	LT	118+00	69	LT	12.6
DU-09	118+00	69	LT	117+92	67	LT	4.4
TOTAL							802.3

DU-14

\\160J14-ent-draw-13_scheduledgn
 2/18/2013 2:06:03 PM

USER NAME = cgotowski	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE = 1:100	CHECKED - DT	REVISED -
PLOT DATE = 2/18/2013	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULE
CUMBERLAND AVENUE AT I-90

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

F.A.U. RTE. 2746	SECTION 1616B	COUNTY COOK	TOTAL SHEETS 404	SHEET NO. 122
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J14	

54213657 - PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	1+07	51	LT	1
DU-02	122+81	101	RT	1
TOTAL				2

54213669 - PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	121+65	155	RT	1
TOTAL				1

60200805 - CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	123+02	87	LT	1
TOTAL				1

60201340 - CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-01	2+29	0	RT	1
DU-01	4+07	0	RT	1
DU-01	4+22	0	RT	1
DU-01	106+86	47	LT	1
DU-02	111+79	59	LT	1
DU-02	112+48	65	LT	1
DU-02	113+00	65	LT	1
DU-02	113+98	64	LT	1
DU-02	112+00	65	RT	1
DU-02	112+66	53	RT	1
DU-02	114+86	56	RT	1
DU-02	121+29	75	LT	1
DU-02	121+12	71	RT	1
DU-02	122+66	54	RT	1
DU-02	21+76	21	LT	1
DU-04	124+80	86	LT	1
TOTAL				16

60200105 - CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-09	118+00	69	LT	1
DU-09	118+02	28	LT	1
DU-09	118+07	69	RT	1
TOTAL				3

60203905 - CATCH BASINS TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	122+22	78	RT	1
TOTAL				1

- MANHOLE, TYPE B, TYPE 1 FRAME, CLOSED LID (CITY OF CHICAGO)				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-01	4+38	6	RT	1
TOTAL				1

60207805 - CATCH BASINS, TYPE C, TYPE 10 FRAME AND GRATE				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-05	17+02	26	RT	1
DU-05	15+63	21	RT	1
TOTAL				2

60208240 - CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-01	7+18	65	RT	1
DU-01	6+61	60	RT	1
DU-01	101+40	53	LT	1
DU-01	102+83	53	LT	1
DU-01	104+27	53	LT	1
DU-01	8+70	28	RT	1
DU-01	8+71	29	LT	1
DU-03	126+71	52	LT	1
DU-03	127+63	45	LT	1
DU-04	11+35	40	LT	1
DU-04	12+38	40	LT	1
DU-04	124+37	110	RT	1
DU-04	13+31	36	RT	1
DU-04	12+16	36	RT	1
DU-04	7+57	48	RT	1
DU-04	6+83	48	RT	1
DU-04	5+41	48	RT	1
DU-04	4+58	44	RT	1
DU-04	3+67	35	RT	1
TOTAL				19

60218400 - MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	122+14	138	LT	1
DU-06	116+74	221	RT	1
DU-06	116+79	184	RT	1
DU-06	117+63	180	RT	1
TOTAL				4

60107800 - PIPE UNDERDRAINS 8"							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	FOOT
DU-09	118+02	111	RT	118+07	69	RT	45
DU-09	118+07	69	RT	118+00	69	LT	145
DU-09	118+00	69	LT	117+93	89	LT	23
TOTAL							213

60107700 - PIPE UNDERDRAINS 6"							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	FOOT
DU-02	121+61	54	RT	122+66	54	RT	103
DU-03	122+66	54	RT	124+37	110	RT	188
DU-03	126+02	73	LT	126+71	52	LT	69
DU-03	126+71	52	LT	127+63	45	LT	88
TOTAL							448

60236200 - INLETS, TYPE A, TYPE 8 GRATE				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	113+00	80	LT	1
TOTAL				1

60236700 - INLETS, TYPE A, TYPE 10 FRAME AND GRATE				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-05	18+42	25.5	LT	1
TOTAL				1

60237470 - INLETS, TYPE A, TYPE 24 FRAME AND GRATE				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-01	97+29	41	LT	1
DU-01	106+27	48	LT	1
DU-01	106+52	48	LT	1
DU-02	111+61	60	LT	1
DU-02	115+52	60	LT	1
DU-02	111+97	15	RT	1
DU-02	114+56	11	RT	1
DU-02	110+41	106	RT	1
DU-02	111+77	83	RT	1
DU-02	119+56	59	LT	1
DU-02	123+79	67	LT	1
DU-02	119+61	59	RT	1
DU-02	21+61	21	LT	1
DU-02	110+47	85	LT	1
DU-04	125+82	117	LT	1
TOTAL				15

60234200 - INLETS, TYPE A, TYPE 1 FRAME, OPEN LID				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	123+41	24	LT	1
DU-09	118+03	13	LT	1
TOTAL				2

60258200 - MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-01	106+45	65	LT	1
DU-01	105+63	123	LT	1
DU-02	110+41	93	LT	1
DU-02	109+27	60	LT	1
DU-02	122+94	75	LT	1
DU-03	126+02	67	LT	1
TOTAL				6

60100060 - CONCRETE HEADWALLS FOR PIPE DRAINS				
SHEET	STATION	OFFSET	RT/LT	EACH
DU-02	121+27	120	RT	1
TOTAL				1

60108200 - PIPE UNDERDRAINS 6" (SPECIAL)							
SHEET	FROM (UPSTREAM)			TO (DOWNSTREAM)			LENGTH
	STATION	OFFSET	RT/LT	STATION	OFFSET	RT/LT	FOOT
DU-02	121+61	54	RT	121+27	120	RT	77
TOTAL							77

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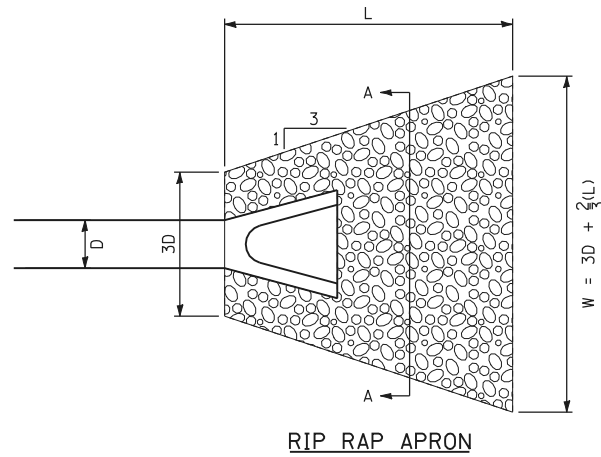


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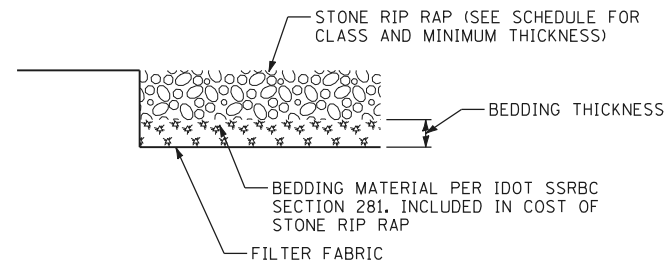
DRAINAGE SCHEDULE
CUMBERLAND AVENUE AT I-90

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	123
CONTRACT NO. 60J14			DU-15	
ILLINOIS FED. AID PROJECT				



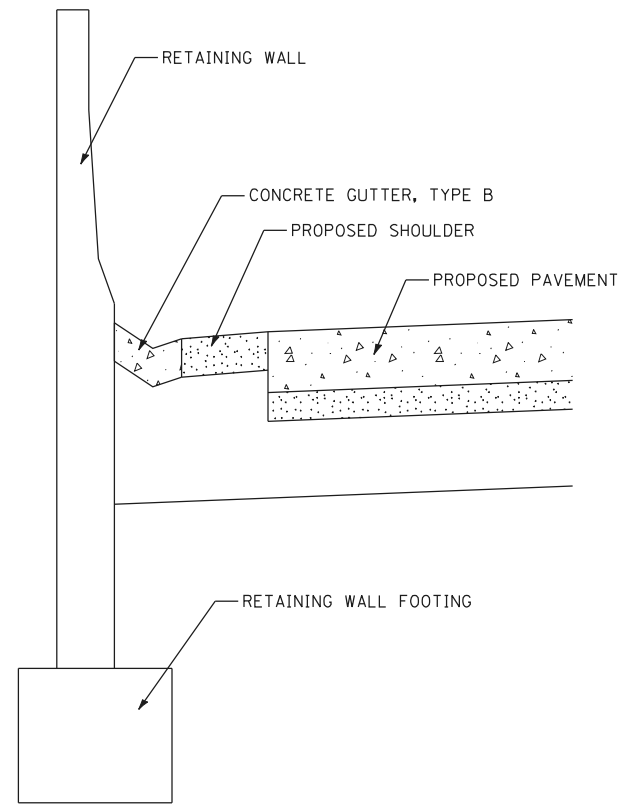
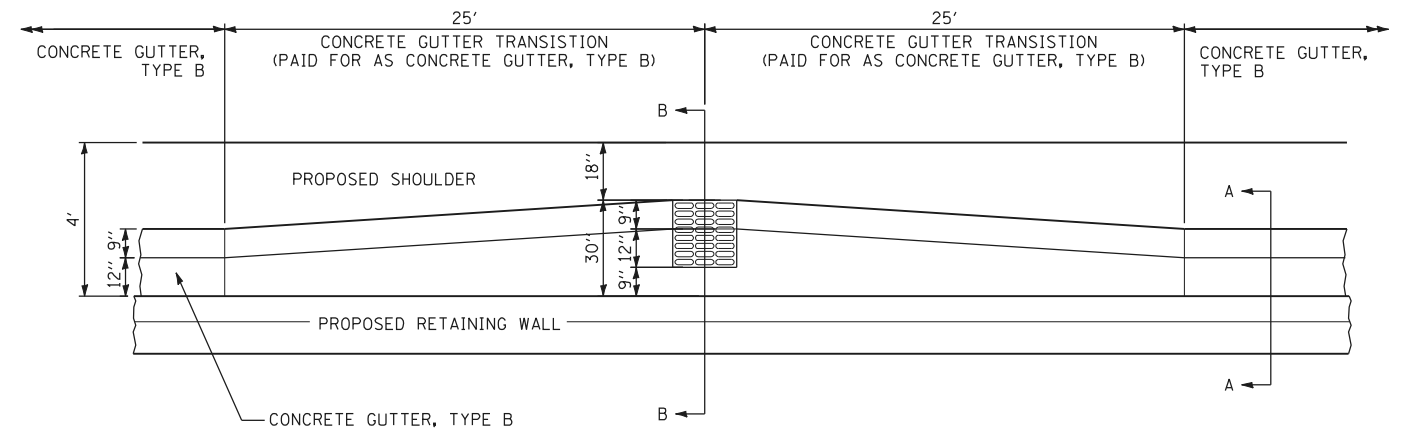
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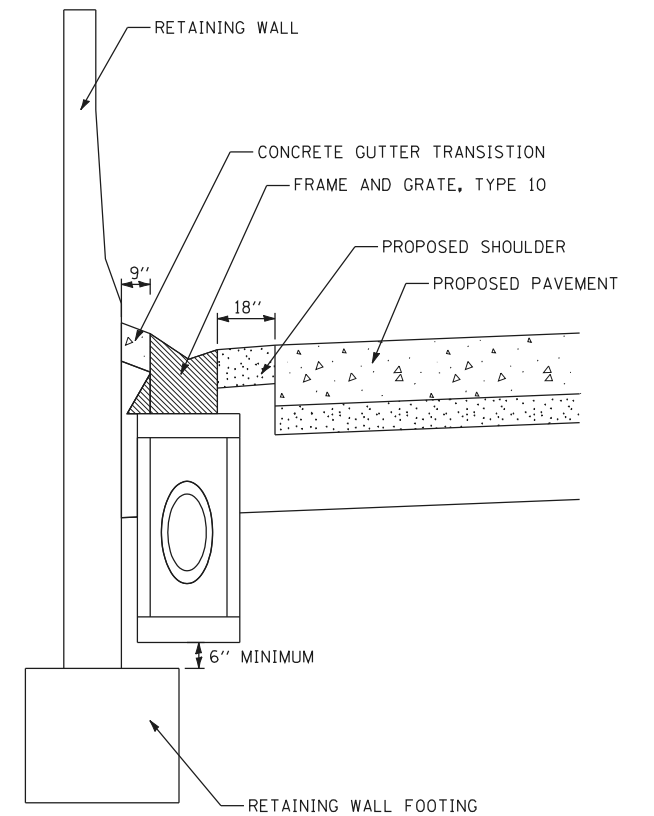
SECTION A-A

STONE RIPRAP DETAIL

28100107 - STONE RIPRAP, CLASS A4										
SHEET	LOCATION			PIPE SIZE (IN.)	3D (FT.)	L (FT.)	W (FT.)	MINIMUM THICKNESS (IN.)	BEDDING THICKNESS (IN.)	QUANTITY (SQ. YD.)
	STATION	OFFSET	RT/LT							
DU-06	112+58	145'	RT	36"	9 FT	12 FT	17 FT	16"	6"	17
DU-06	114+70	435'	RT	15"	4 FT	8 FT	9 FT	16"	6"	6
DU-07	121+65	160'	RT	24"	6 FT	8 FT	11 FT	16"	6"	8
DU-08	121+73	157'	LT	12"	3 FT	6 FT	7 FT	16"	6"	3
TOTAL										34



SECTION A-A



SECTION B-B

CONCRETE GUTTER, TYPE B DETAIL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
CUMBERLAND AVENUE AT I-90

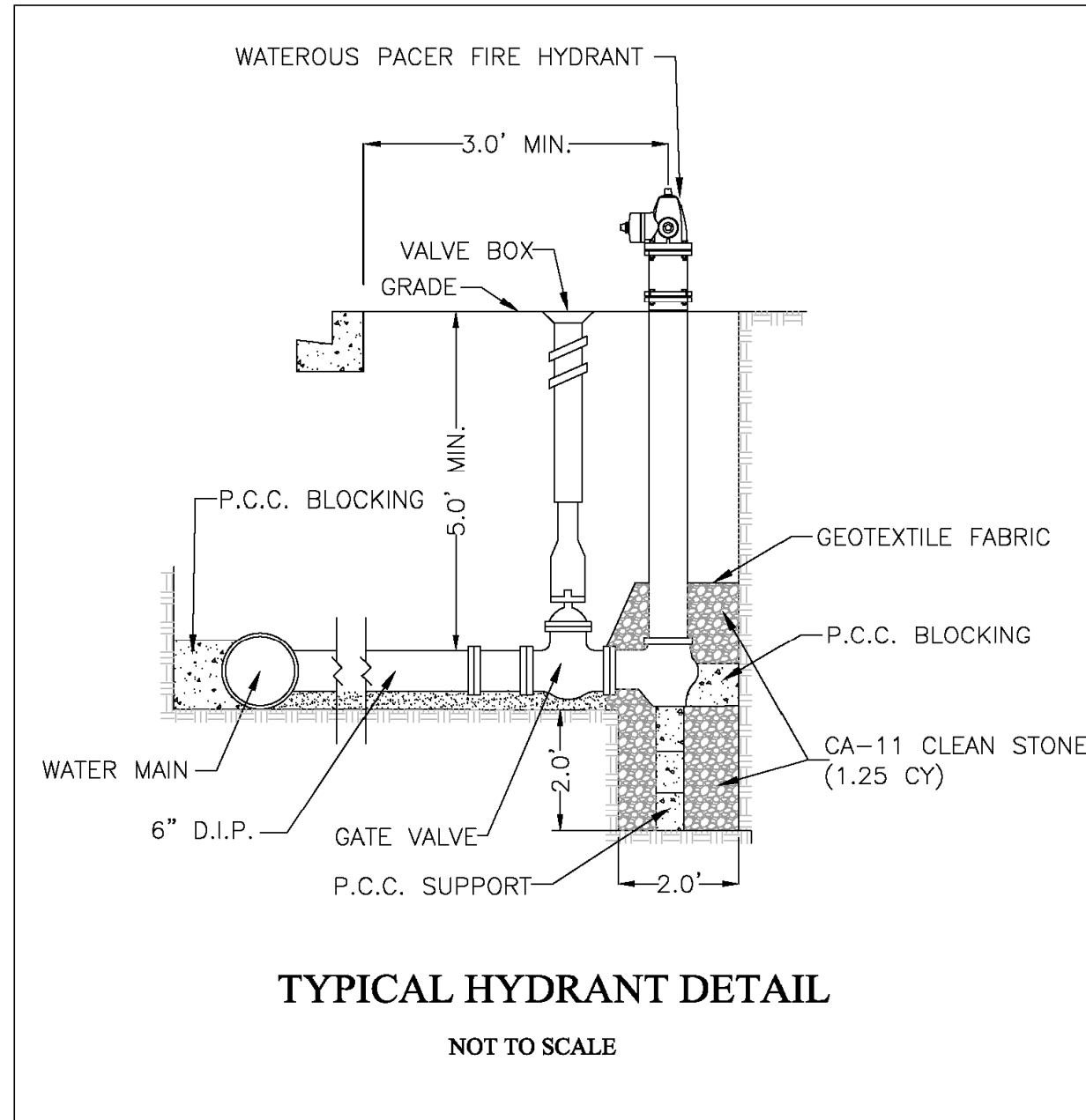
SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	124
CONTRACT NO. 60J14			DU-16	
ILLINOIS FED. AID PROJECT				

NOTES:

1. THRUST BLOCKING PER THE CITY OF PARK RIDGE FIRE HYDRANT DETAIL SHALL BE PROVIDED FOR ALL CITY OF PARK RIDGE FIRE HYDRANTS TO BE MOVED. ALL MATERIALS AND WORK REQUIRED TO MEET THE DETAIL SHALL BE CONSIDERED INCLUDED IN THE COST OF FIRE HYDRANTS TO BE MOVED.

2. THE CONTRACTOR SHALL CONTACT THE CITY OF PARK RIDGE A MINIMUM OF 48 HOURS PRIOR TO PERFORMING THE WORK FOR FIRE HYDRANTS TO BE MOVED. (CONTACT PERSON - SUPERINTENDENT BRIAN WIEBE OR TOM THOMPSON AT 847-318-5240).



TYPICAL HYDRANT DETAIL

NOT TO SCALE

CITY OF PARK RIDGE FIRE HYDRANT DETAIL

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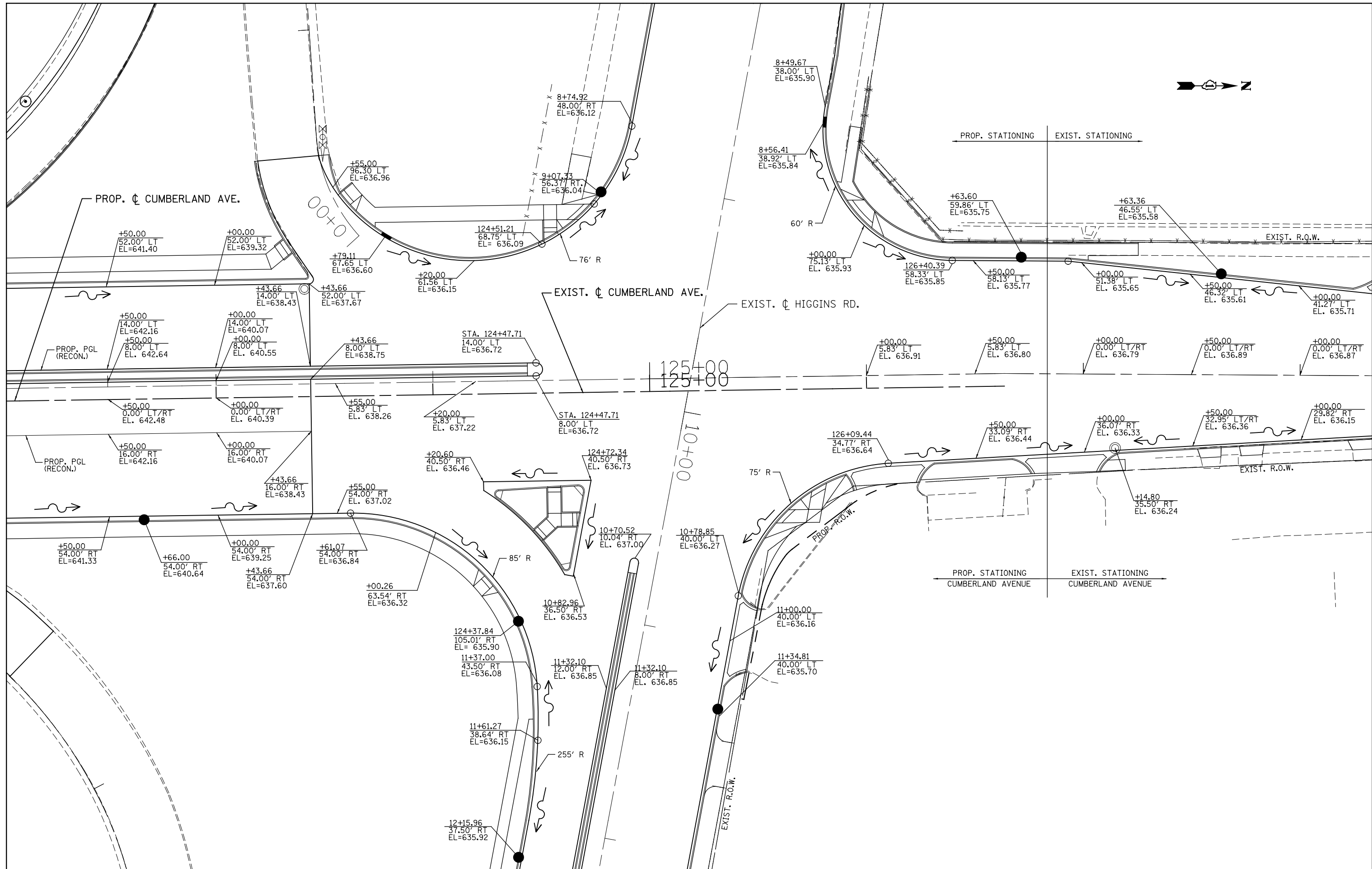


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CITY OF PARK RIDGE FIRE HYDRANT DETAIL
 CUMBERLAND AVENUE AT I-90**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	125
CONTRACT NO. 60J14			DU-17	
ILLINOIS FED. AID PROJECT				



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 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

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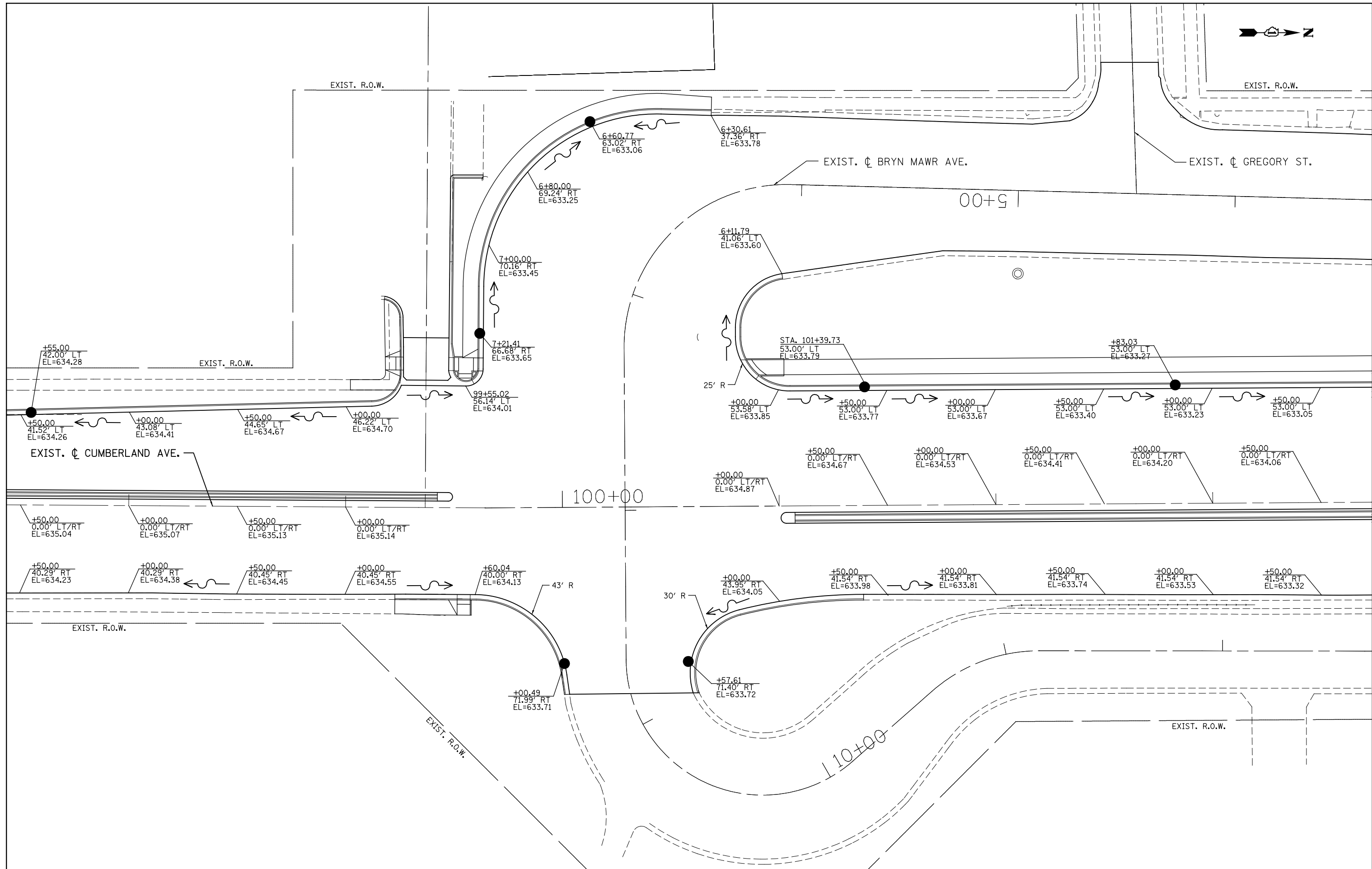
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION DETAIL
 CUMBERLAND & HIGGINS**

SCALE: 1"=20' SHEET INT-01 OF 10 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	126
				60J14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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PATRICK ENGINEERING INC.
 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

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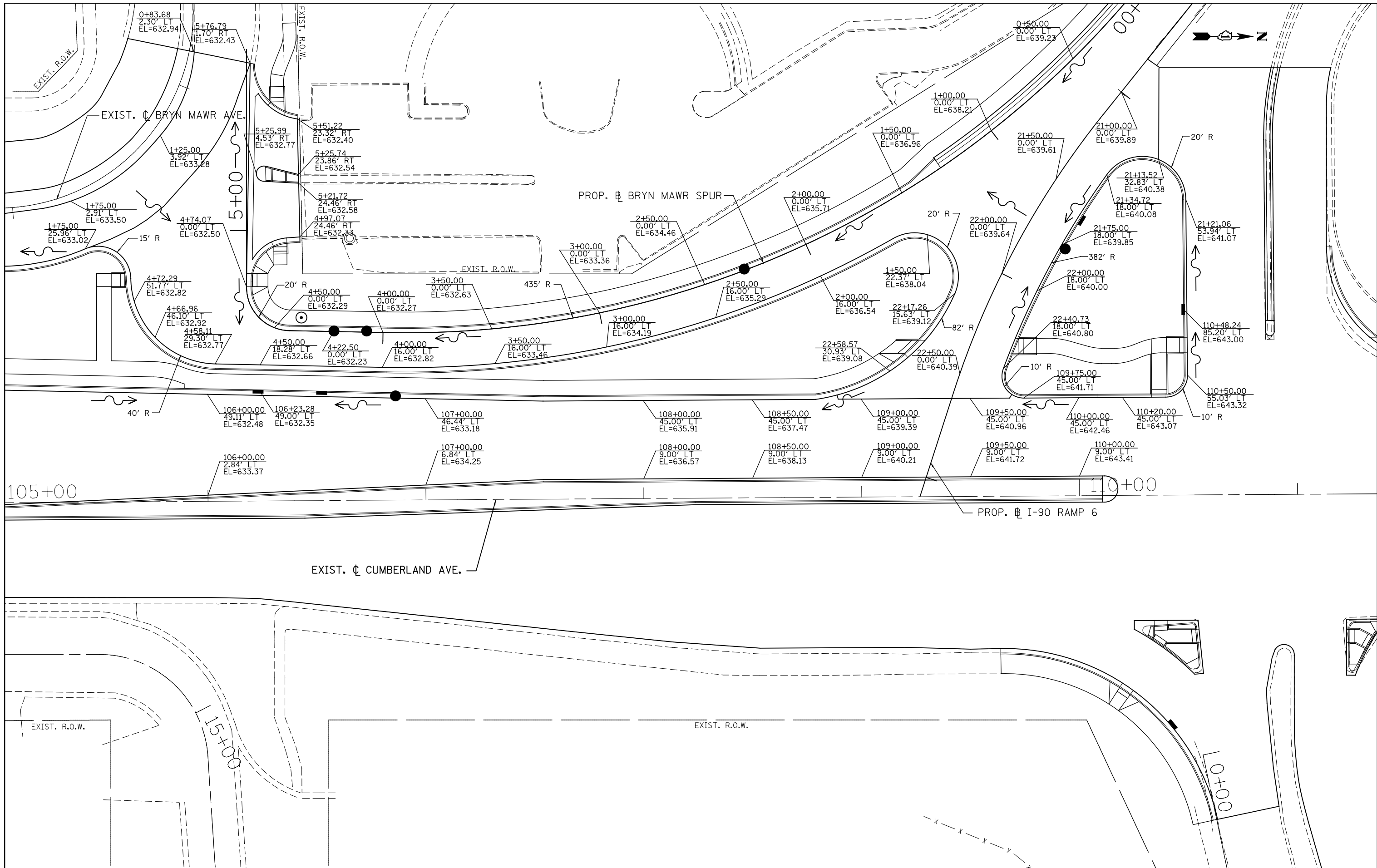
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION DETAIL
 CUMBERLAND & BRYN MAWR**

SCALE: 1"=20' SHEET INT-02 OF 10 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	127
				60J14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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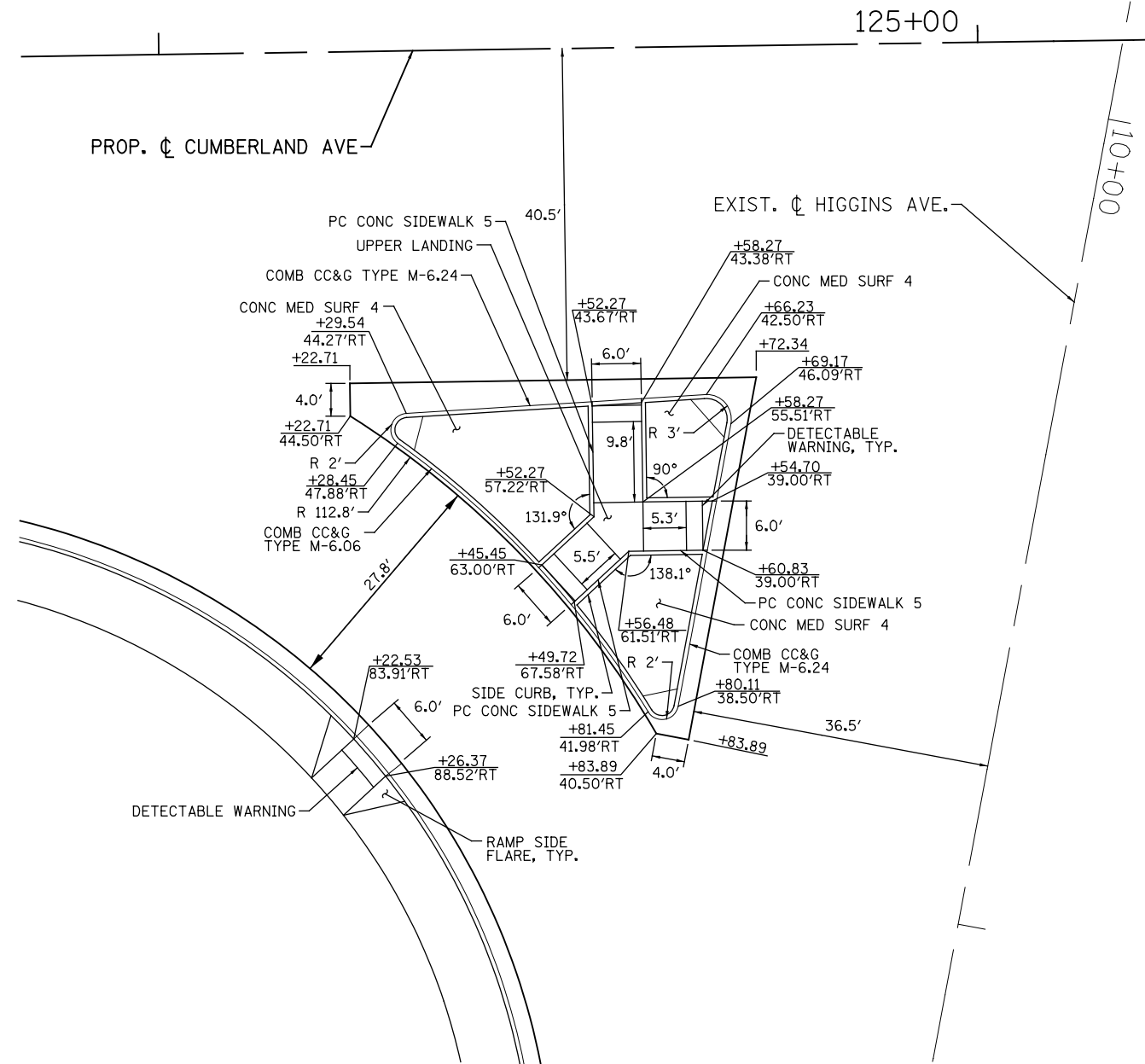
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSECTION DETAIL BRYN MAWR SPUR RAMP			
SCALE: 1"=20'	SHEET INT-03 OF 10	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	128
60J14				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

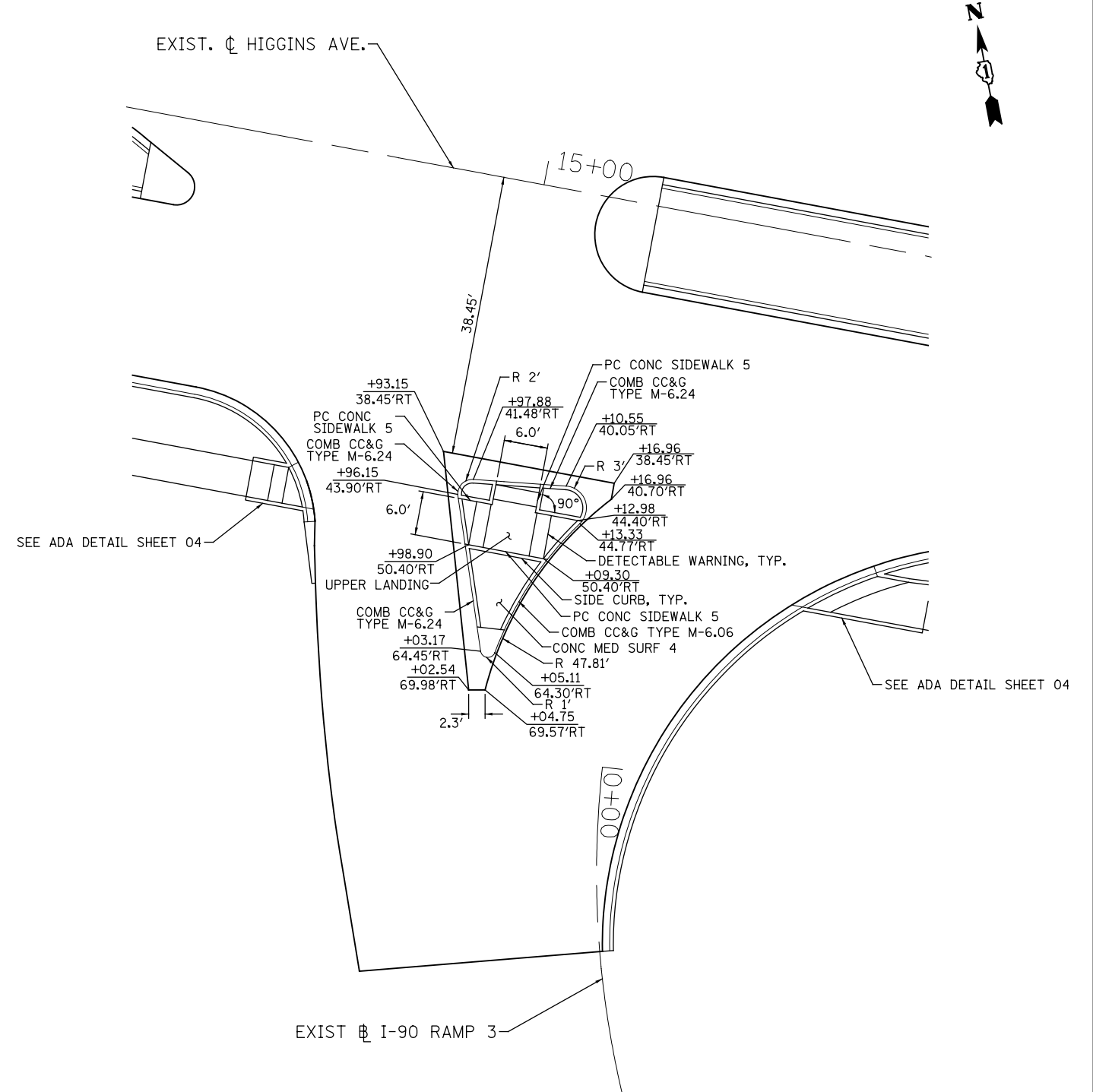
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CUMBERLAND AVENUE & HIGGINS ROAD

NOTES

1. PROP. ISLAND MEDIANS MUST CONFORM TO IDOT STANDARD DETAIL 606301-04
2. PROP. ADA CROSSWALKS RAMP MUST CONFORM TO IDOT STANDARD DETAILS 424001-06, 424006, 424011, 424016, 424021, 424026, 424031.



HIGGINS ROAD & I-90 RAMP 3

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkceppeni@rdwy.lisle	DESIGNED - CPK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ISLAND DETAIL HIGGINS ROAD AT CUMBERLAND AVENUE AND I-90 WB EXIT RAMP 3		F.A.U. RTE. 2746	SECTION 1616B	COUNTY COOK	TOTAL SHEETS 404	SHEET NO. 129
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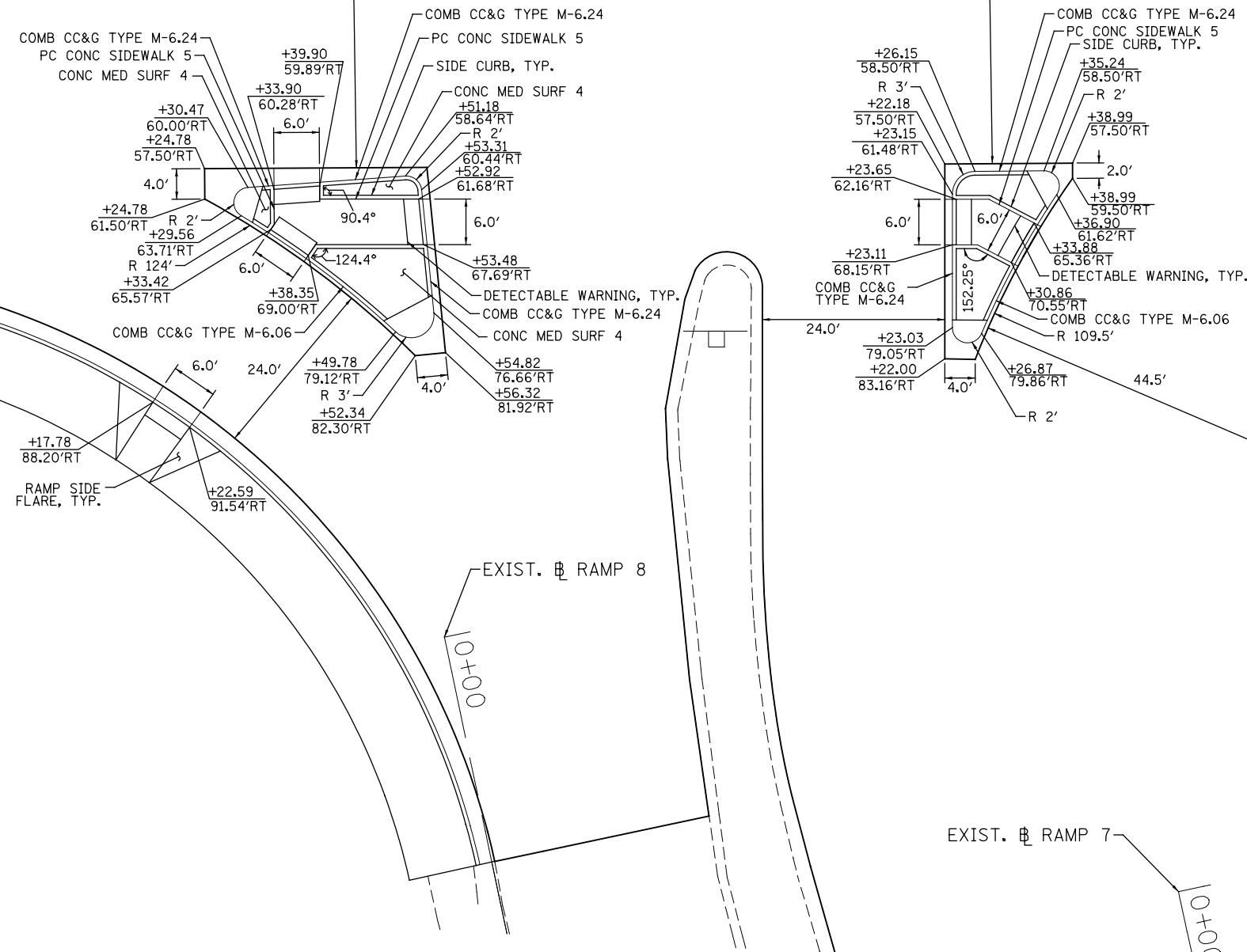


PROP. CL CUMBERLAND AVE

EXIST. CL CUMBERLAND AVE

110+00

112+00



NOTES

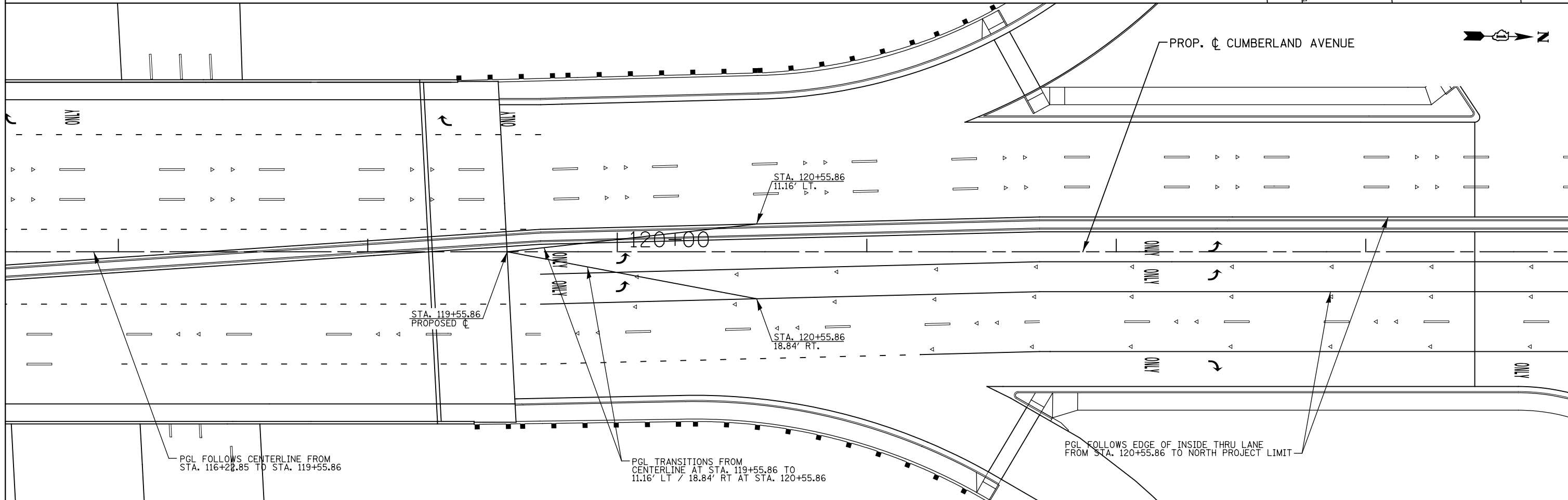
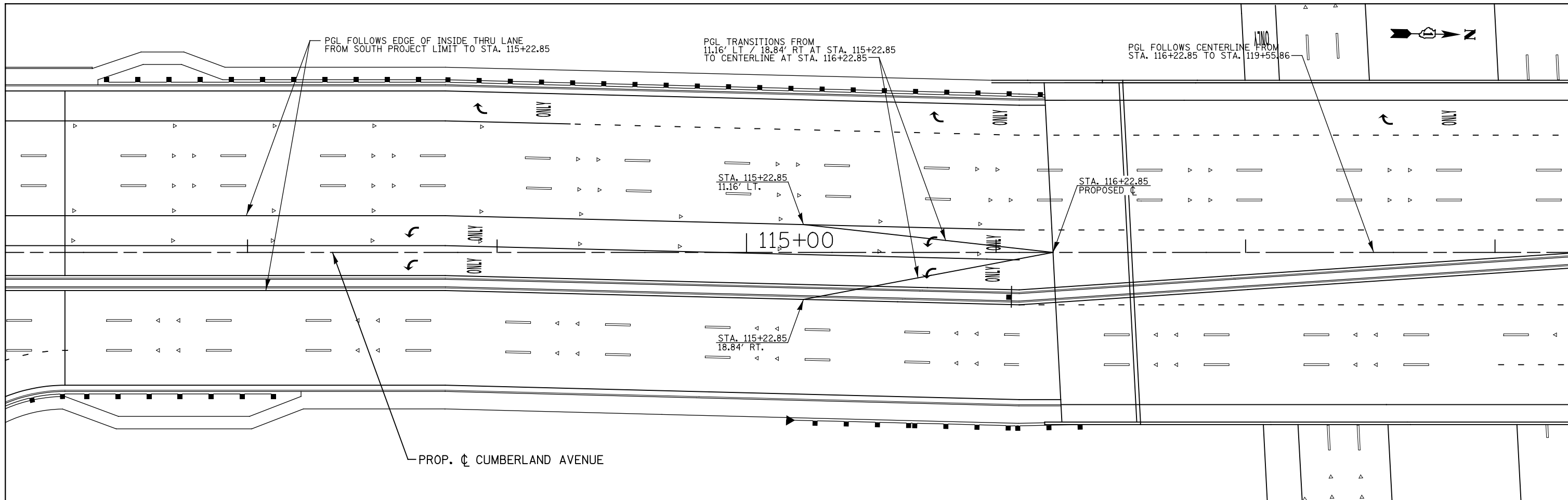
1. PROP. ISLAND MEDIANS MUST CONFORM TO IDOT STANDARD DETAIL 606301-04
2. PROP. ADA CROSSWALKS RAMPS MUST CONFORM TO IDOT STANDARD DETAILS 424001-06, 424006, 424011, 424016, 424021, 424026, 424031.

CUMBERLAND AVENUE & RAMP 7 & RAMP 8

EXIST. CL RAMP 7

EXIST. CL RAMP 8

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkceppeni@rdwy.lisle	DESIGNED - CPK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ISLAND DETAIL CUMBERLAND AVENUE AND I-90 RAMPS 7 & 8		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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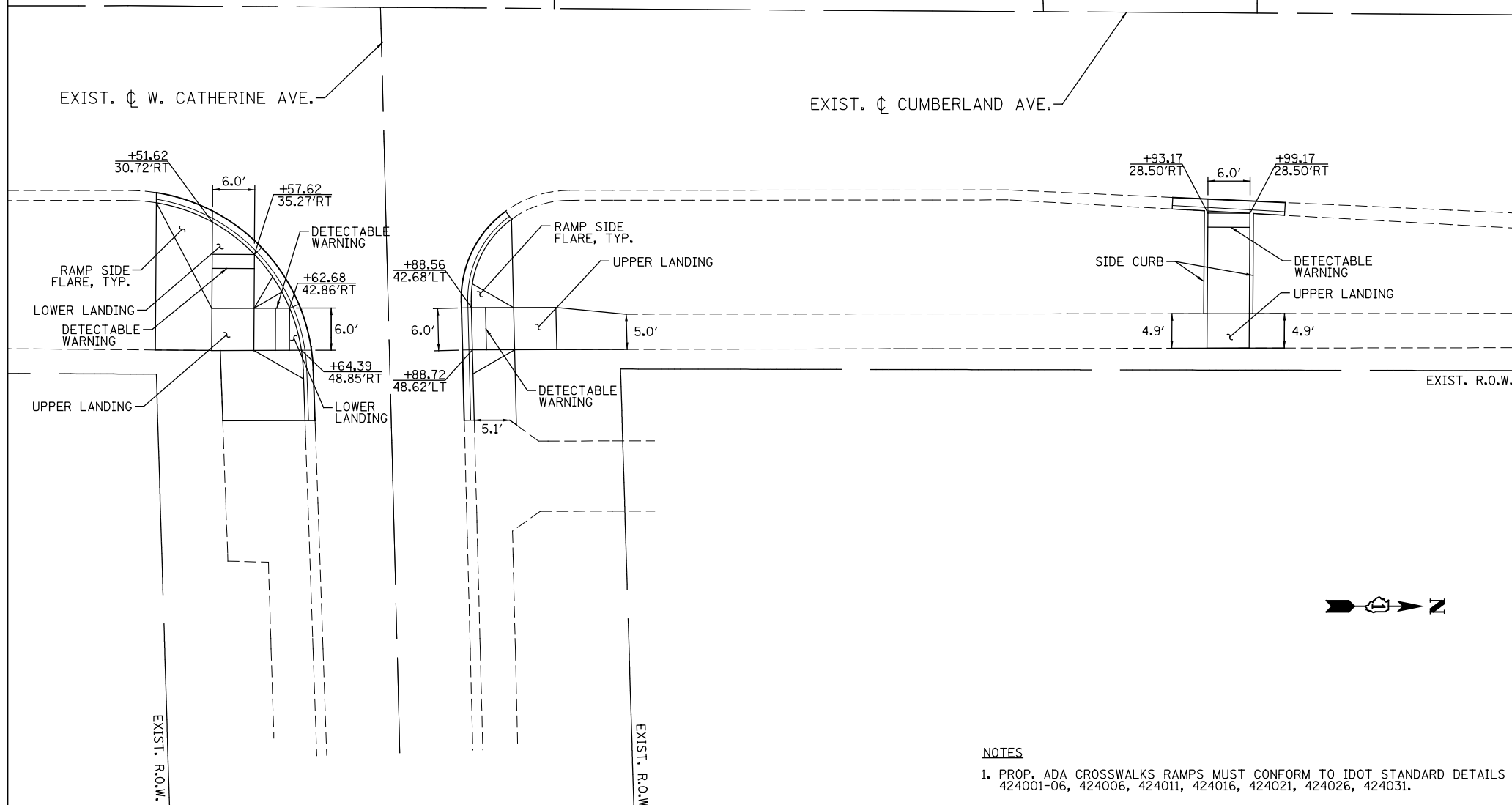
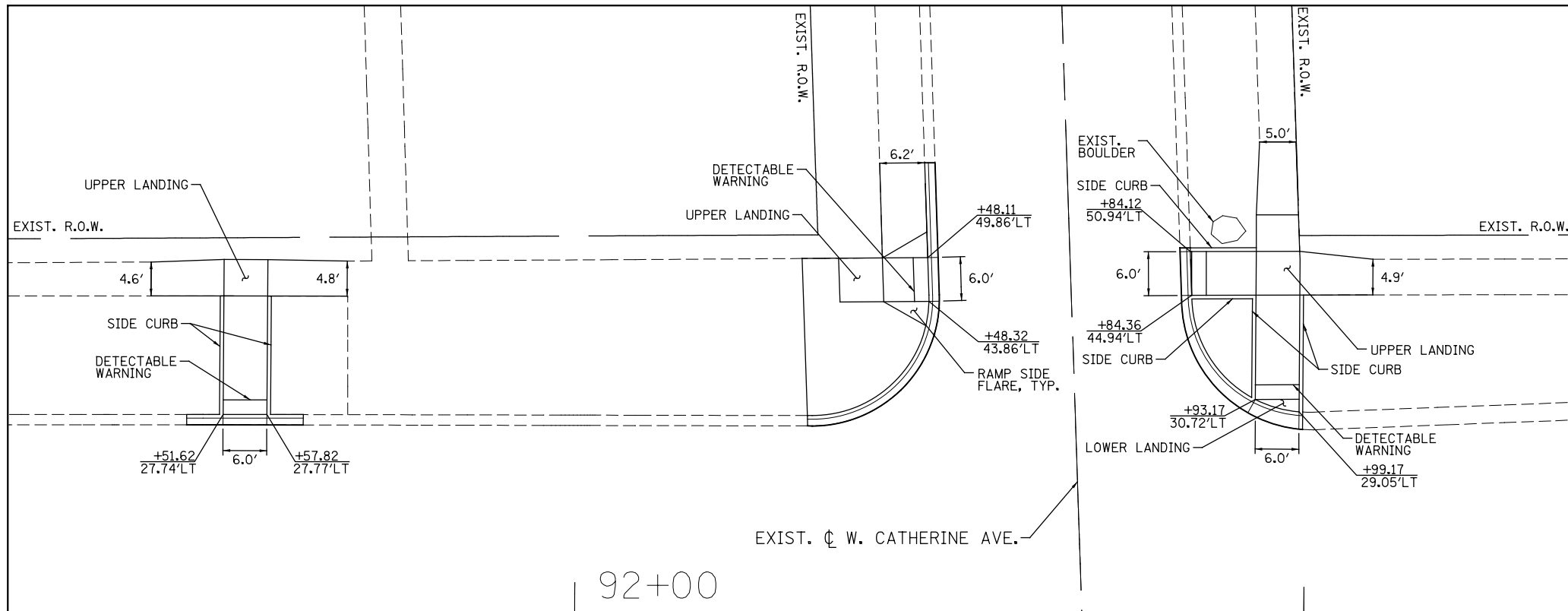
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

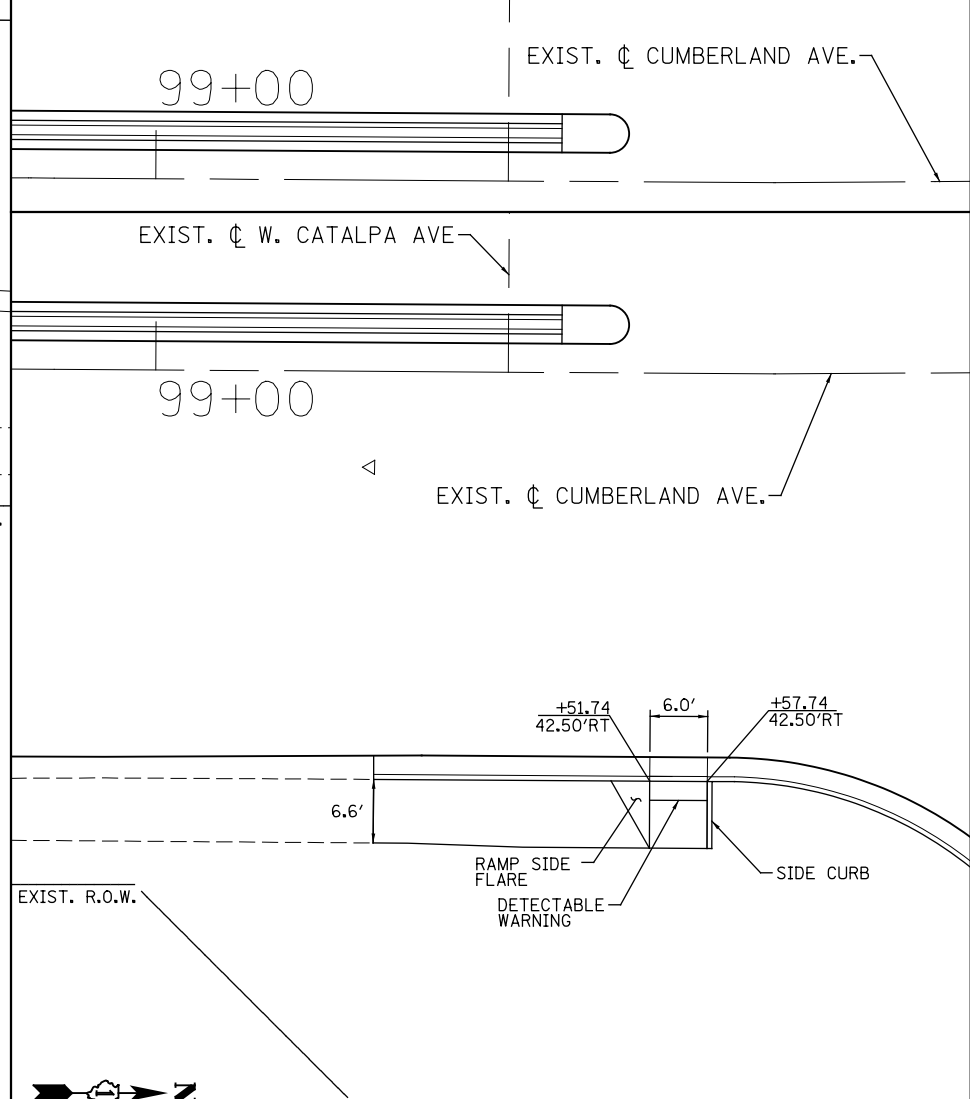
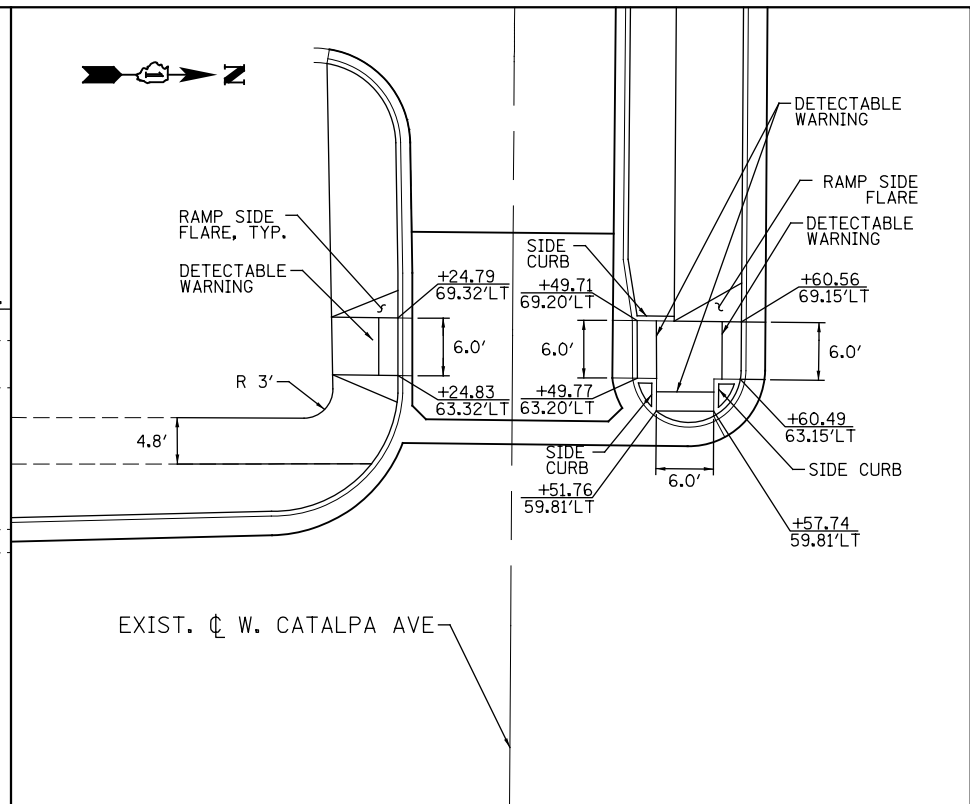
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SCALE: 1"=20'	SHEET INT-06 OF 10
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	131
60J14				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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NOTES
 1. PROP. ADA CROSSWALKS RAMPS MUST CONFORM TO IDOT STANDARD DETAILS 424001-06, 424006, 424011, 424016, 424021, 424026, 424031.



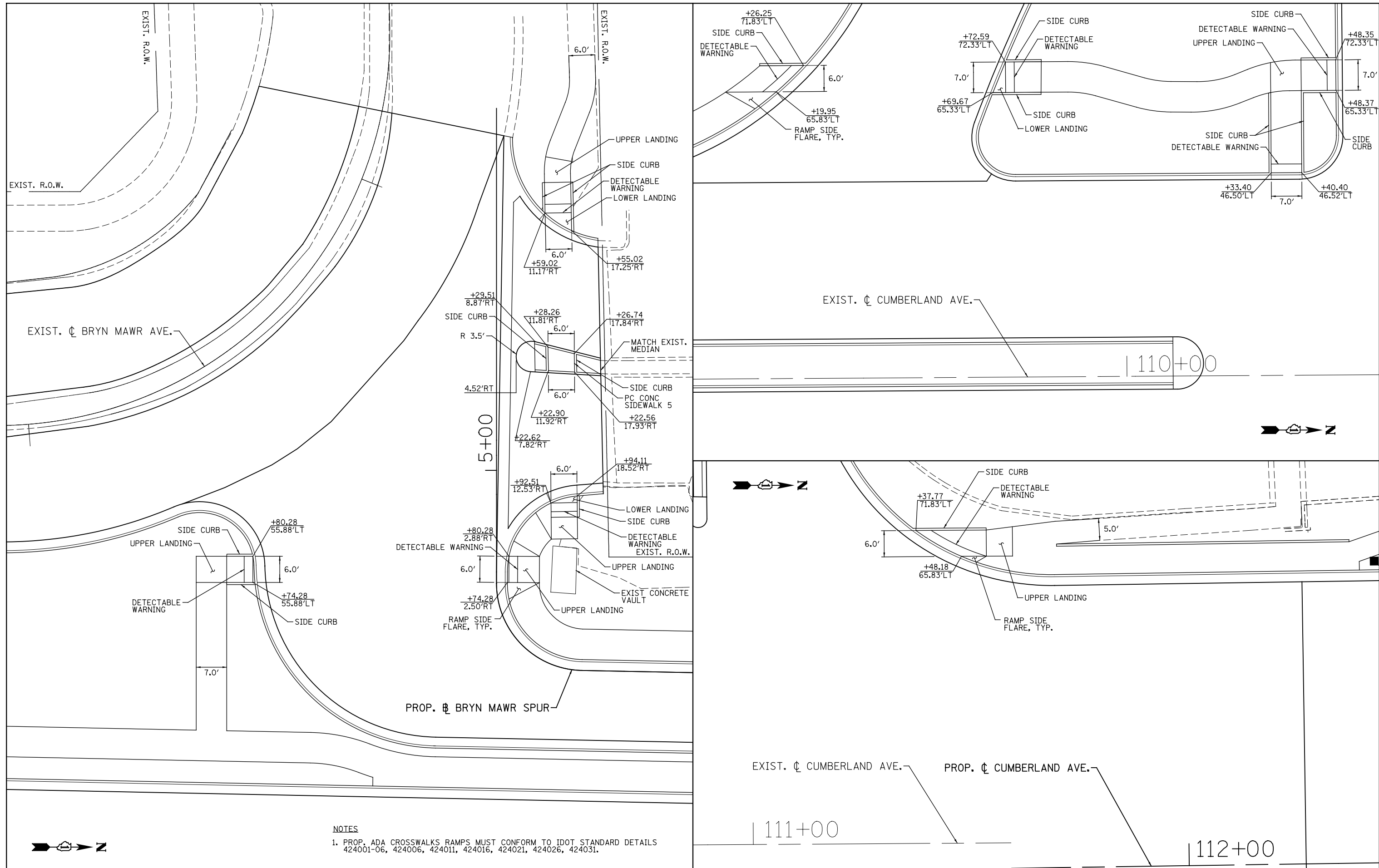
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAIL
CUMBERLAND AVENUE

SCALE: 1"=20' SHEET INT-07 OF 10 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	132
				60J14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- NOTES**
1. PROP. ADA CROSSWALKS RAMPS MUST CONFORM TO IDOT STANDARD DETAILS 424001-06, 424006, 424011, 424016, 424021, 424026, 424031.

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 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

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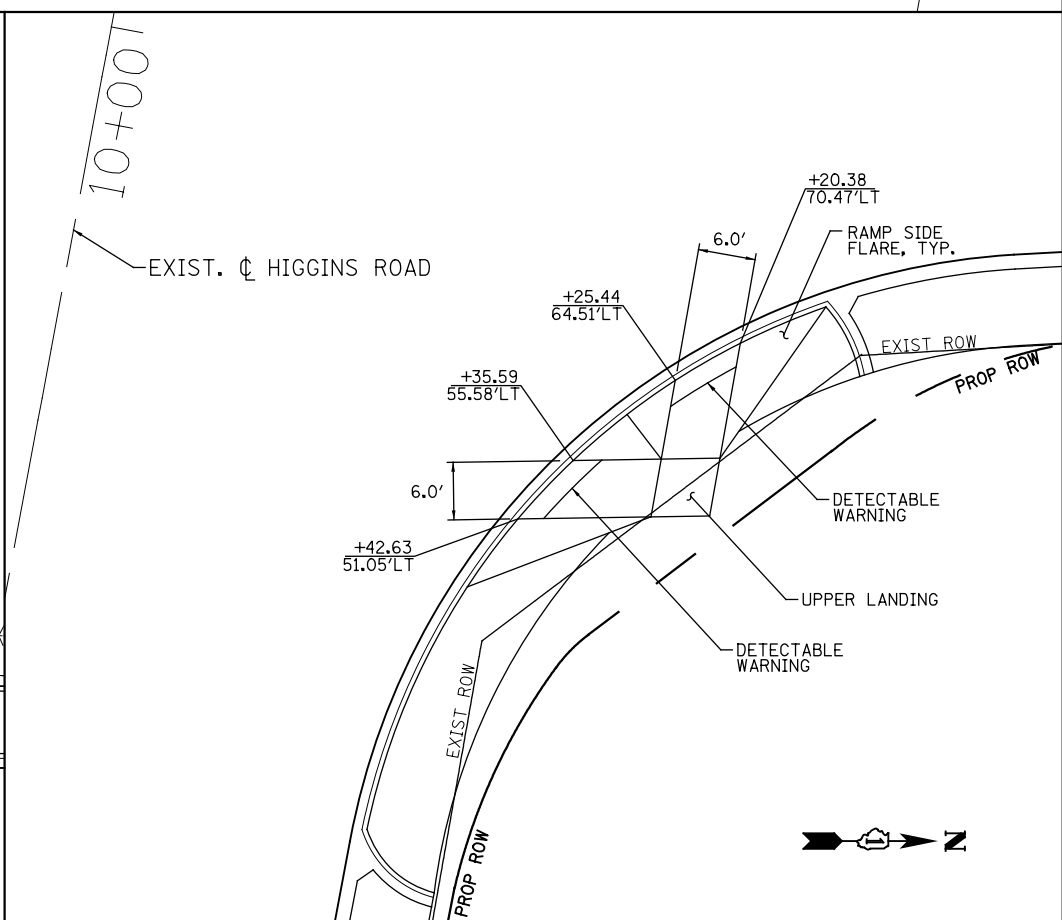
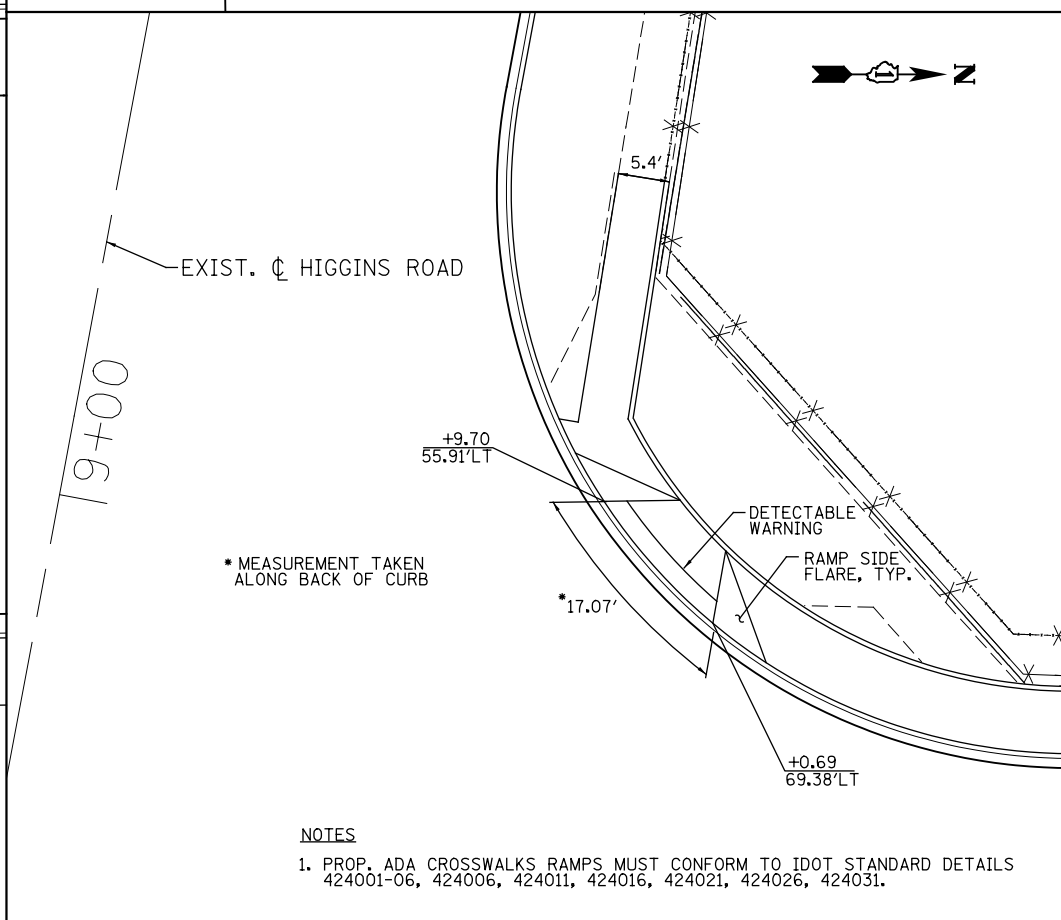
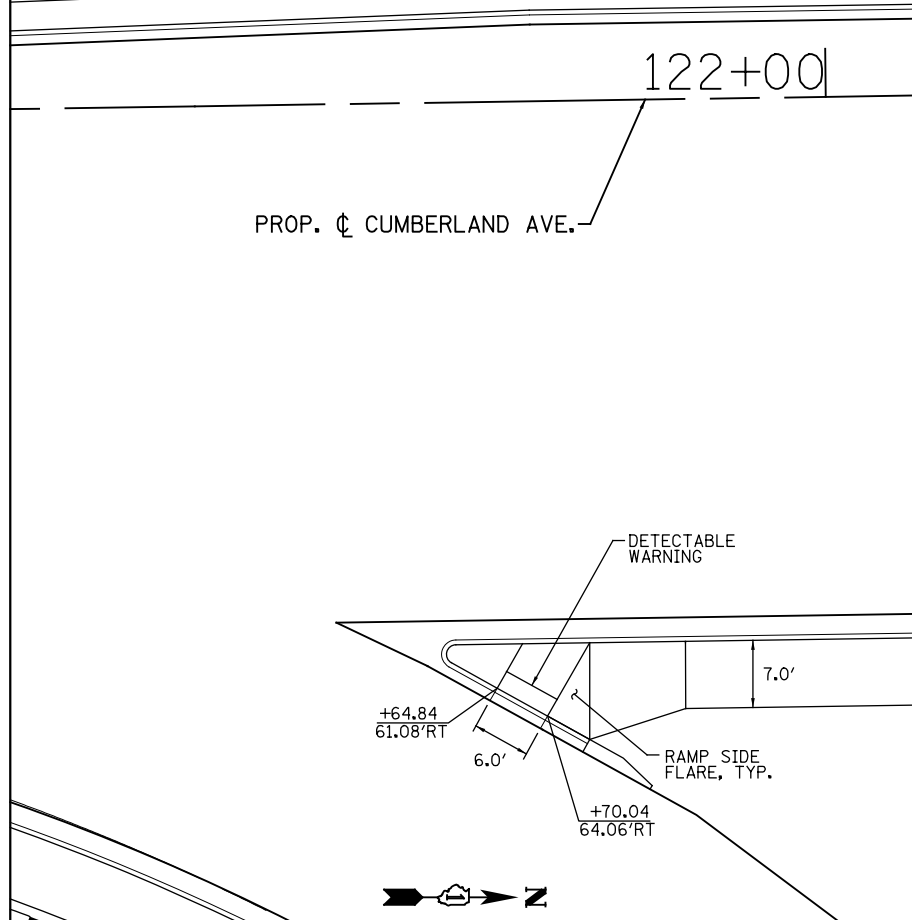
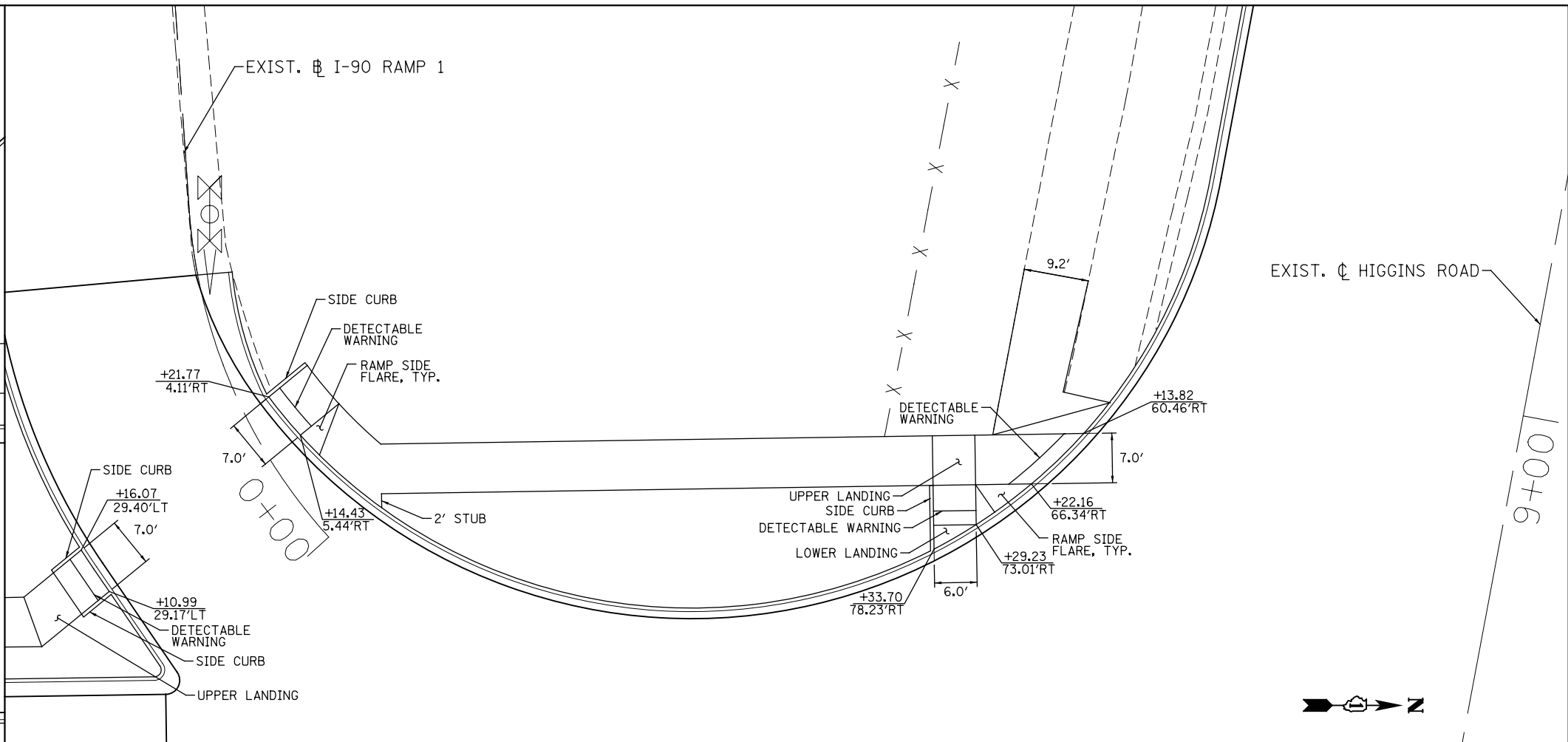
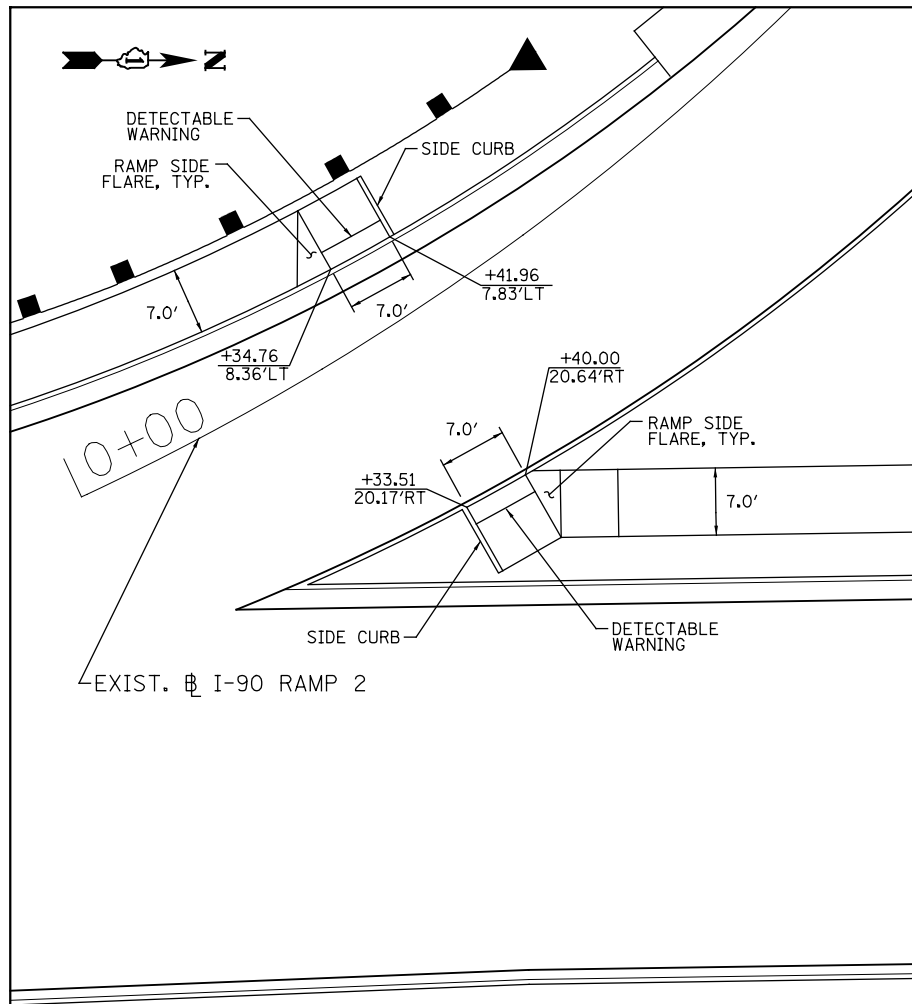
REVISED -
 REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAIL
 CUMBERLAND AVENUE**

SCALE: 1"=20' SHEET INT-08 OF 10 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	133
				60J14



* MEASUREMENT TAKEN ALONG BACK OF CURB

- NOTES**
1. PROP. ADA CROSSWALKS RAMPS MUST CONFORM TO IDOT STANDARD DETAILS 424001-06, 424006, 424011, 424016, 424021, 424026, 424031.

PATRICK ENGINEERING INC.
 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

USER NAME = tkoeppen(Rdwy_Lisle)	DESIGNED - CPK	REVISED -
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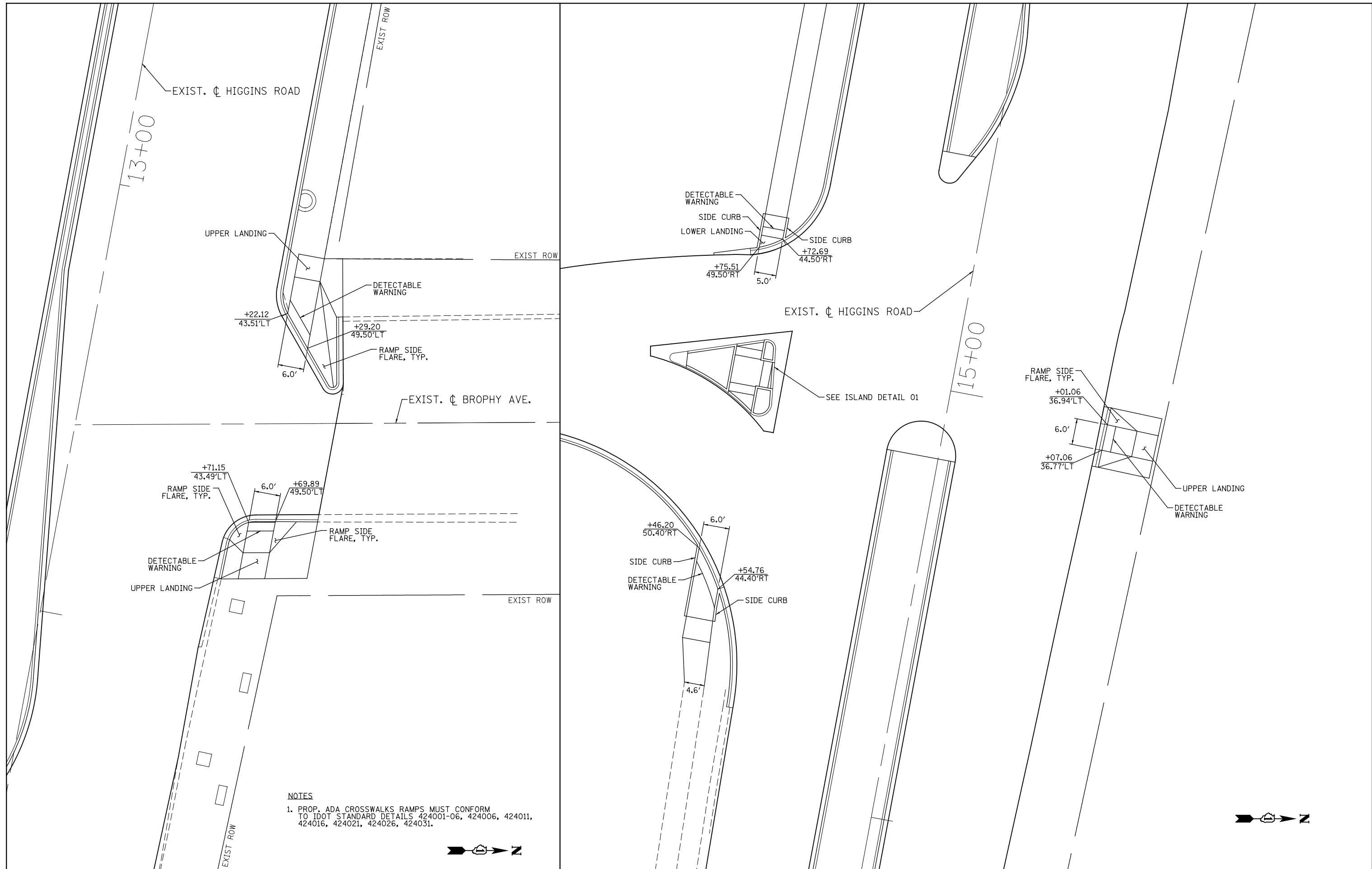
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAIL
 CUMBERLAND AVENUE**

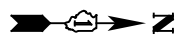
SCALE: 1"=20' SHEET INT-09 OF 10 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	134
				60J14

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



NOTES
 1. PROP. ADA CROSSWALKS RAMP MUST CONFORM TO IDOT STANDARD DETAILS 424001-06, 424006, 424011, 424016, 424021, 424026, 424031.



	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen(Rdwy_Lisle) PLOT CONFIG = PDF(Grey_Small).plt PLOT SCALE = 1:20 PLOT DATE = 2/18/2013 5:11:52 PM	DESIGNED - CPK DRAWN - JSS CHECKED - JAH DATE - 2/18/2013	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

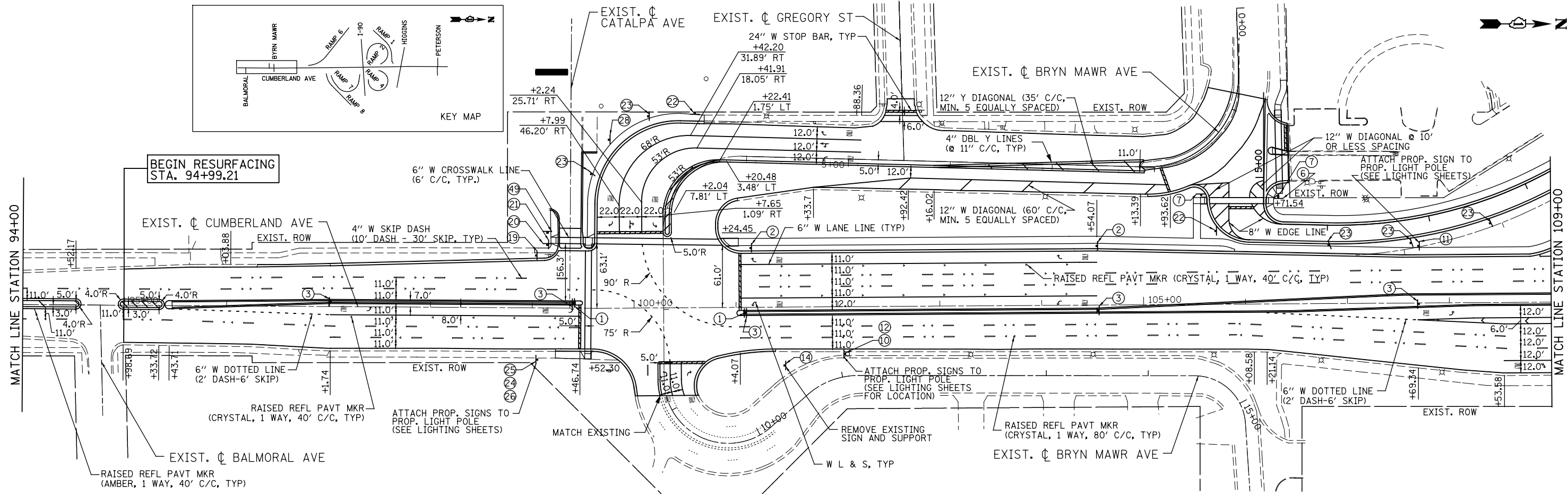
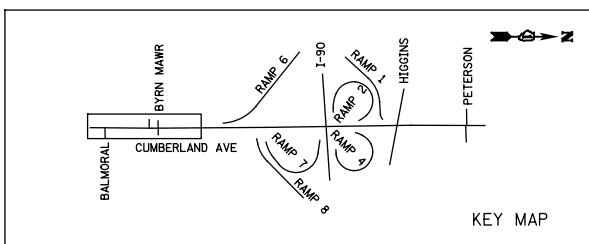
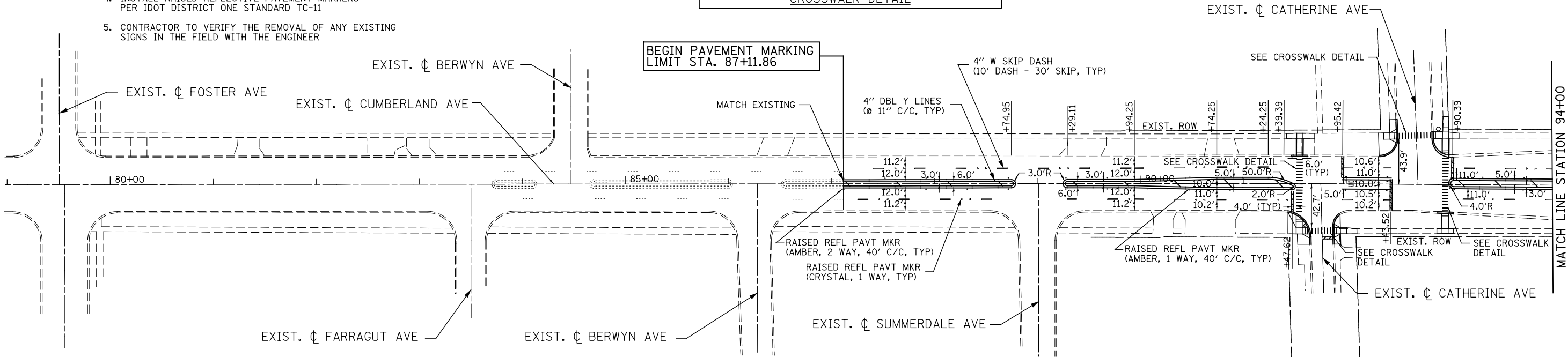
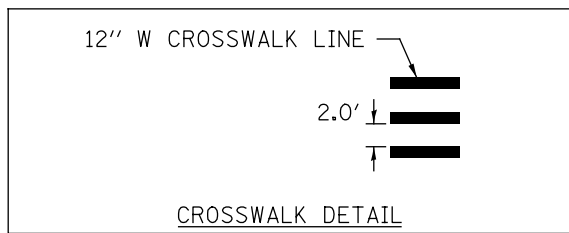
**ADA RAMP DETAIL
 CUMBERLAND AVENUE**

SCALE: 1"=20' SHEET INT-10 OF 10 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	135
				60J14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NOTES:

1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING.
2. FINAL PAVEMENT MARKING ON HMA PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKING.
3. THE CONTRACTOR SHALL CONTACT WALTER CZARNY AT 847-715-8419 TWO WEEKS PRIOR TO INSTALLING FINAL PAVEMENT MARKINGS.
4. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS PER IDOT DISTRICT ONE STANDARD TC-11
5. CONTRACTOR TO VERIFY THE REMOVAL OF ANY EXISTING SIGNS IN THE FIELD WITH THE ENGINEER



PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

USER NAME = tkoeppen@rdwy.lisle
PLOT CONFIG = PDF(Grey_Small).plt
PLOT SCALE = 1:1000
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DESIGNED - CPK
DRAWN - MJP
CHECKED - JAH
DATE - 2/18/2013

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

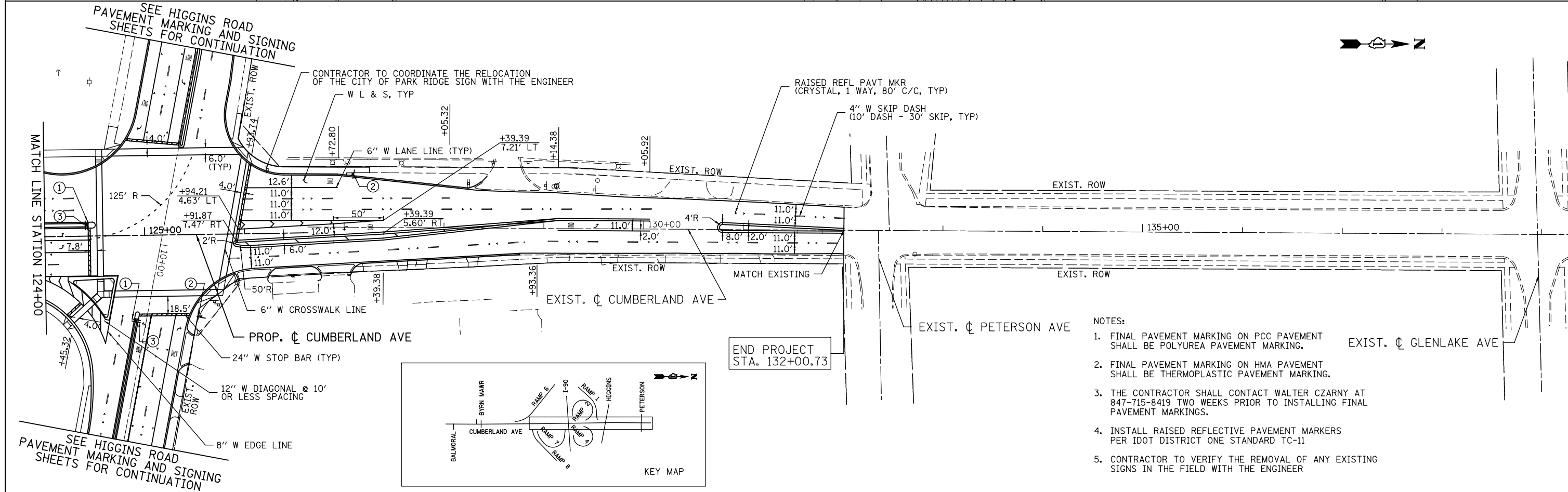
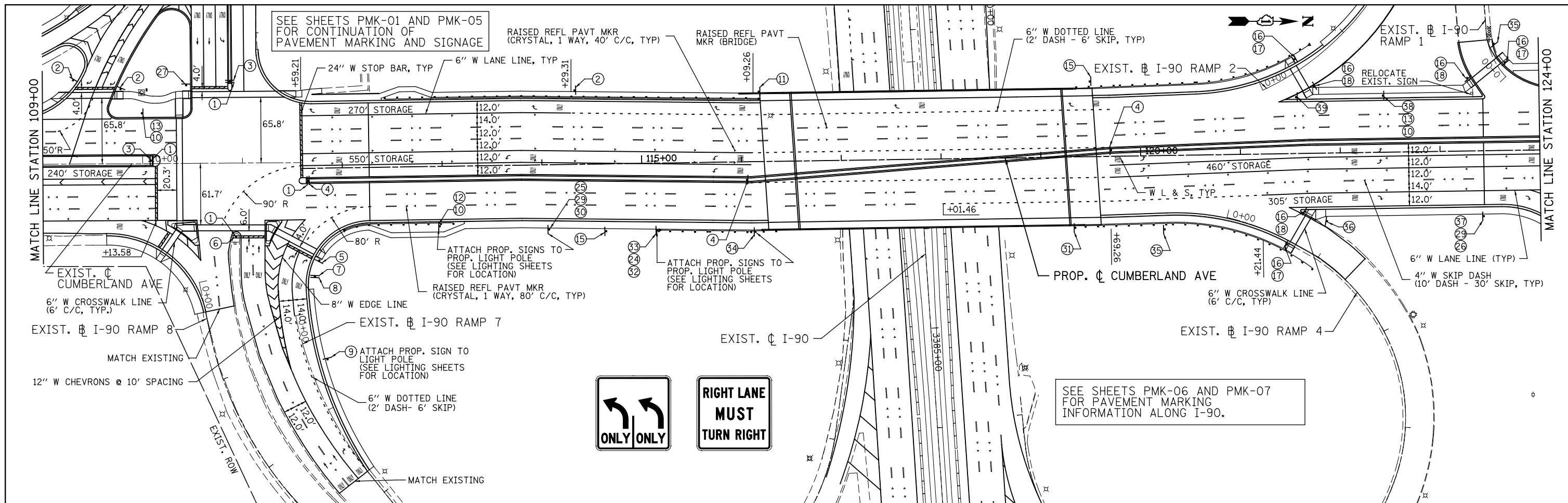
PAVEMENT MARKING AND SIGNING PLAN
CUMBERLAND AVENUE

SCALE: 1"=50' SHEET PMK-01 OF 9 STA. 87+11.86 TO STA. 109+00

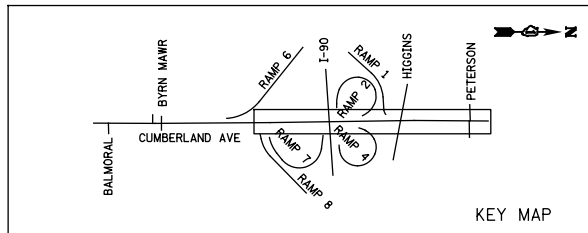
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	136
				60J14

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

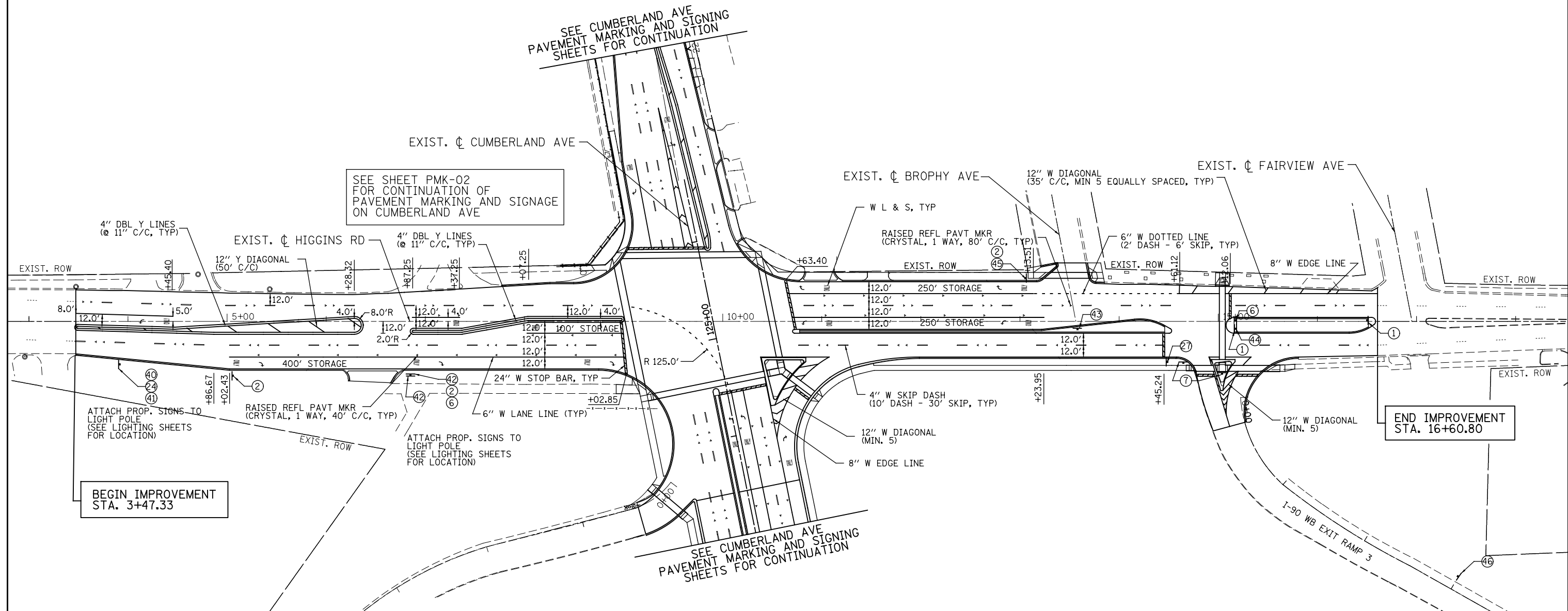
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- NOTES:
1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING.
 2. FINAL PAVEMENT MARKING ON HMA PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKING.
 3. THE CONTRACTOR SHALL CONTACT WALTER CZARNY AT 847-715-8419 TWO WEEKS PRIOR TO INSTALLING FINAL PAVEMENT MARKINGS.
 4. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS PER IDOT DISTRICT ONE STANDARD TC-11
 5. CONTRACTOR TO VERIFY THE REMOVAL OF ANY EXISTING SIGNS IN THE FIELD WITH THE ENGINEER



PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkcepeni@rdwy.lisle PLOT CONFIG = PDF(Grey_Small).plt PLOT SCALE = 1:1000 PLOT DATE = 2/18/2013 5:13:25 PM	DESIGNED - CPK DRAWN - MJP CHECKED - JAH DATE - 2/18/2013	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN CUMBERLAND AVENUE		F.A.U. RTE. 2746 SECTION 1616B COUNTY COOK TOTAL SHEETS 404 SHEET NO. 137	60J14
	SCALE: 1"=50' SHEET PMK-02 OF 9 STA. 109+00 TO STA. 132+00				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

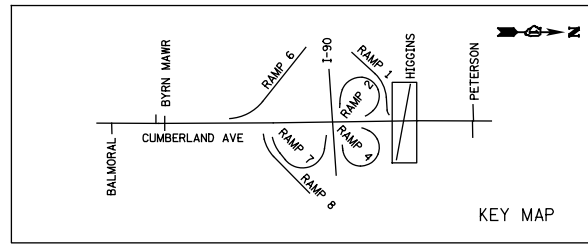


END IMPROVEMENT
STA. 16+60.80

BEGIN IMPROVEMENT
STA. 3+47.33

NOTES:

1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING.
2. FINAL PAVEMENT MARKING ON HMA PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKING.
3. THE CONTRACTOR SHALL CONTACT WALTER CZARNY AT 847-715-8419 TWO WEEKS PRIOR TO INSTALLING FINAL PAVEMENT MARKINGS.
4. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS PER IDOT DISTRICT ONE STANDARD TC-11
5. CONTRACTOR TO VERIFY THE REMOVAL OF ANY EXISTING SIGNS IN THE FIELD WITH THE ENGINEER



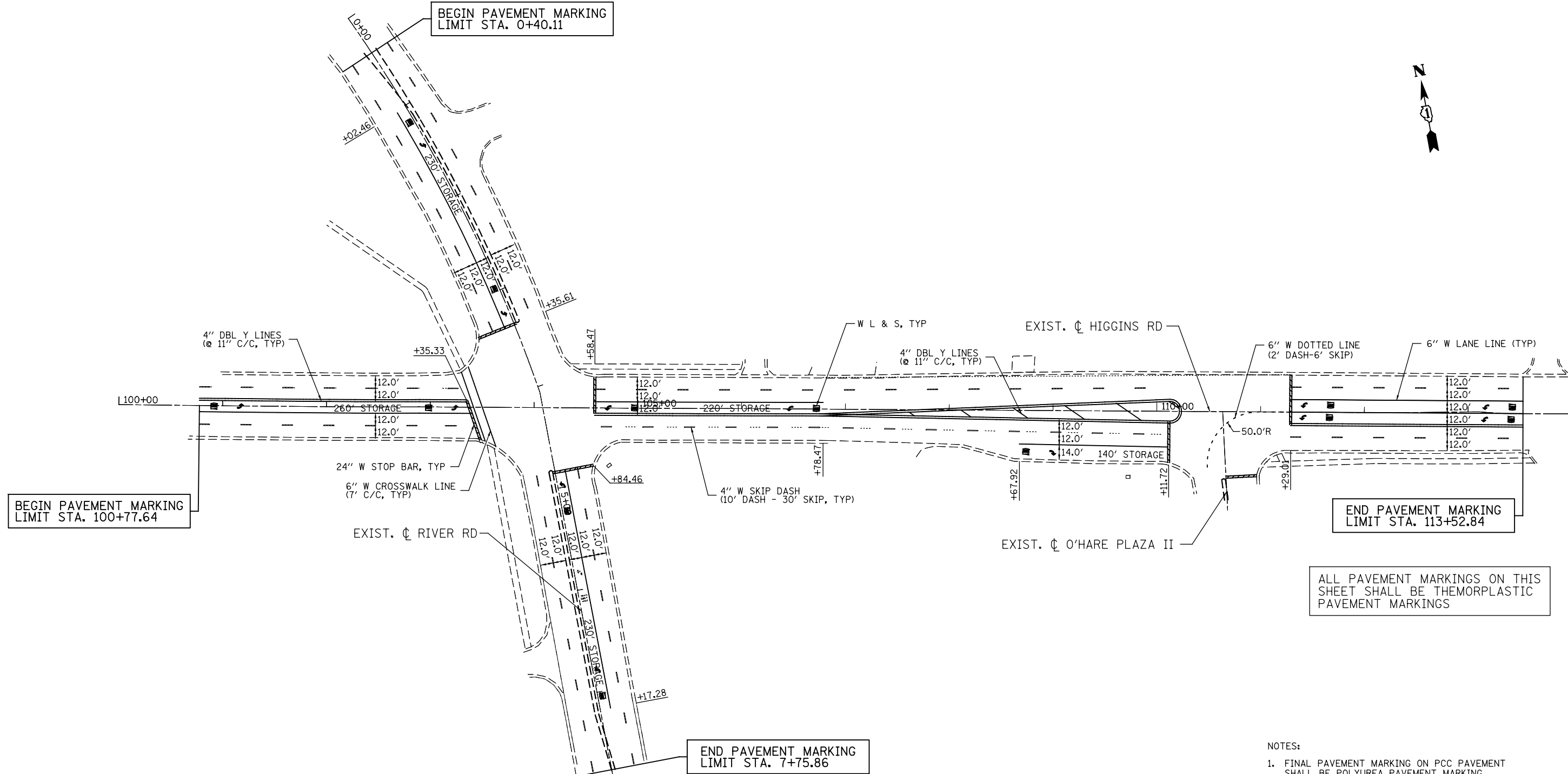
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
HIGGINS ROAD

SCALE: 1"=50' SHEET PMK-03 OF 9 STA. 3+47.33 TO STA. 16+60.80

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	138
60J14				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BEGIN PAVEMENT MARKING
LIMIT STA. 100+77.64

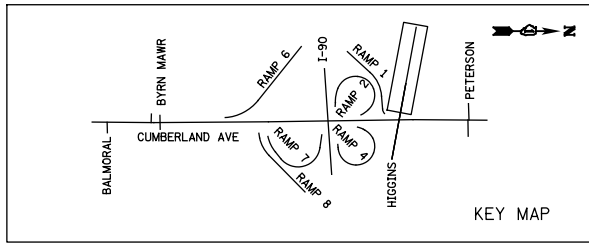
BEGIN PAVEMENT MARKING
LIMIT STA. 0+40.11

END PAVEMENT MARKING
LIMIT STA. 7+75.86

END PAVEMENT MARKING
LIMIT STA. 113+52.84

ALL PAVEMENT MARKINGS ON THIS
SHEET SHALL BE THERMOPLASTIC
PAVEMENT MARKINGS

- NOTES:
1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING.
 2. FINAL PAVEMENT MARKING ON HMA PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKING.
 3. THE CONTRACTOR SHALL CONTACT WALTER CZARNY AT 847-715-8419 TWO WEEKS PRIOR TO INSTALLING FINAL PAVEMENT MARKINGS.
 4. CONTRACTOR TO VERIFY THE REMOVAL OF ANY EXISTING SIGNS IN THE FIELD WITH THE ENGINEER



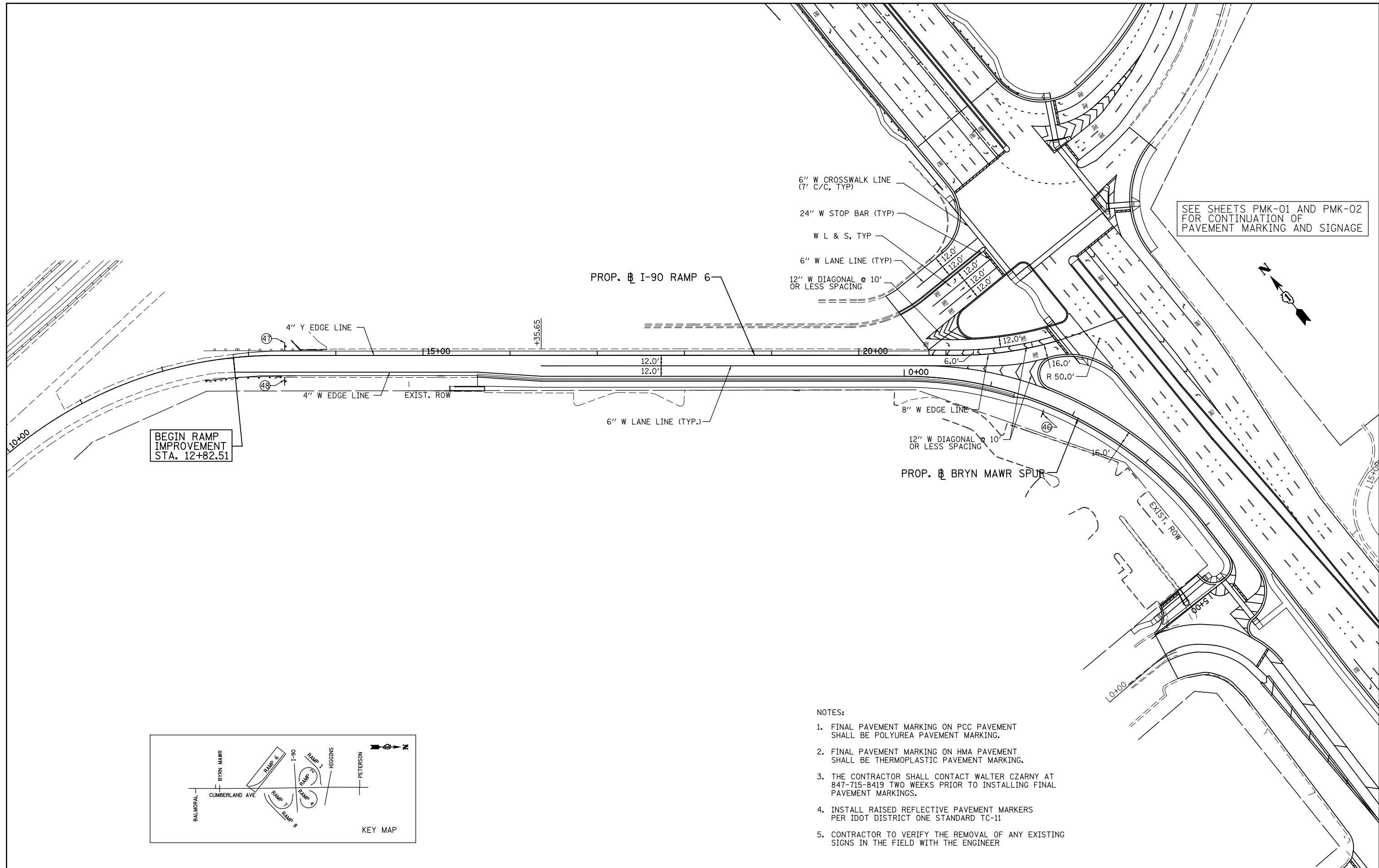
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
HIGGINS ROAD

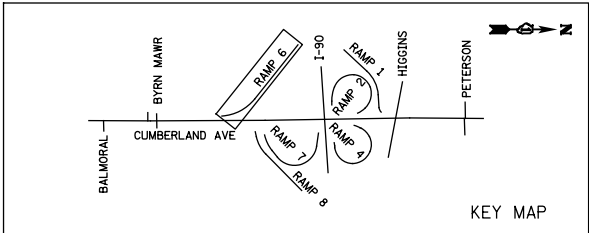
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	139
				60J14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SEE SHEETS PMK-01 AND PMK-02 FOR CONTINUATION OF PAVEMENT MARKING AND SIGNAGE

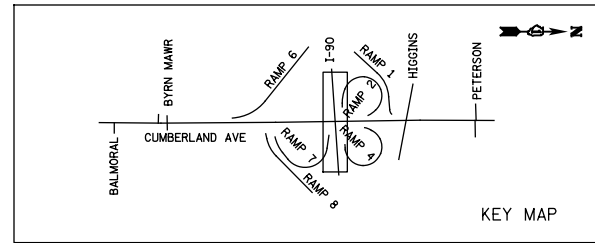
BEGIN RAMP IMPROVEMENT STA. 12+82.51



- NOTES:
1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING.
 2. FINAL PAVEMENT MARKING ON HMA PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKING.
 3. THE CONTRACTOR SHALL CONTACT WALTER CZARNY AT 847-715-8419 TWO WEEKS PRIOR TO INSTALLING FINAL PAVEMENT MARKINGS.
 4. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS PER IDOT DISTRICT ONE STANDARD TC-11
 5. CONTRACTOR TO VERIFY THE REMOVAL OF ANY EXISTING SIGNS IN THE FIELD WITH THE ENGINEER

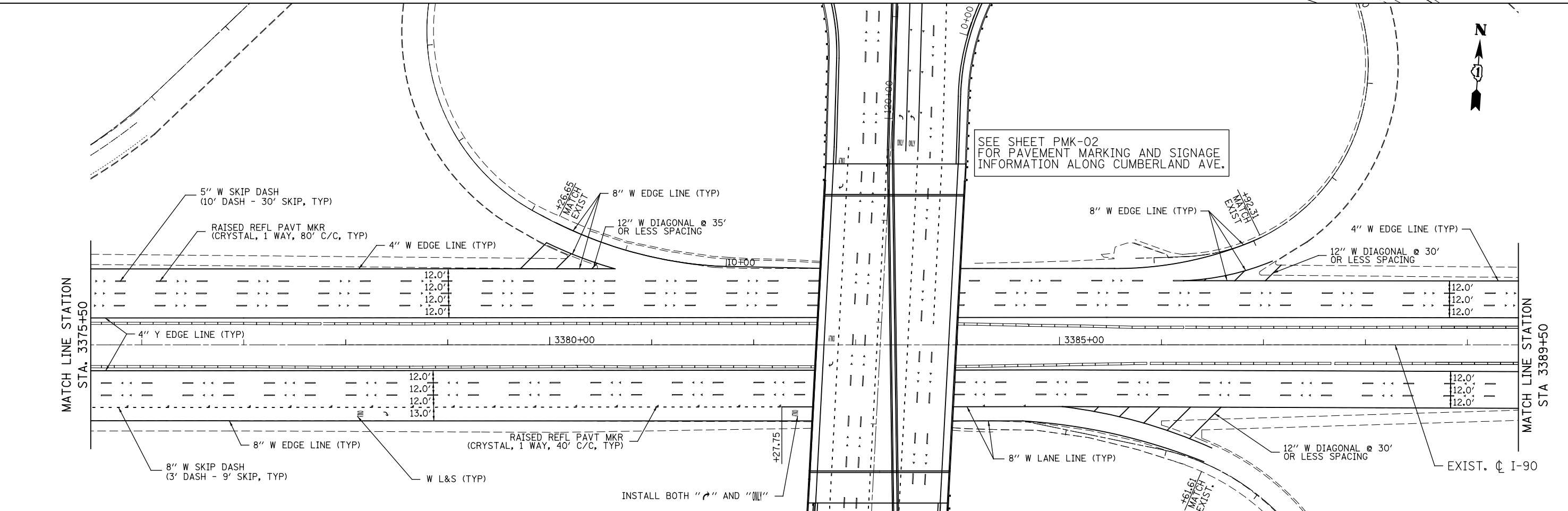
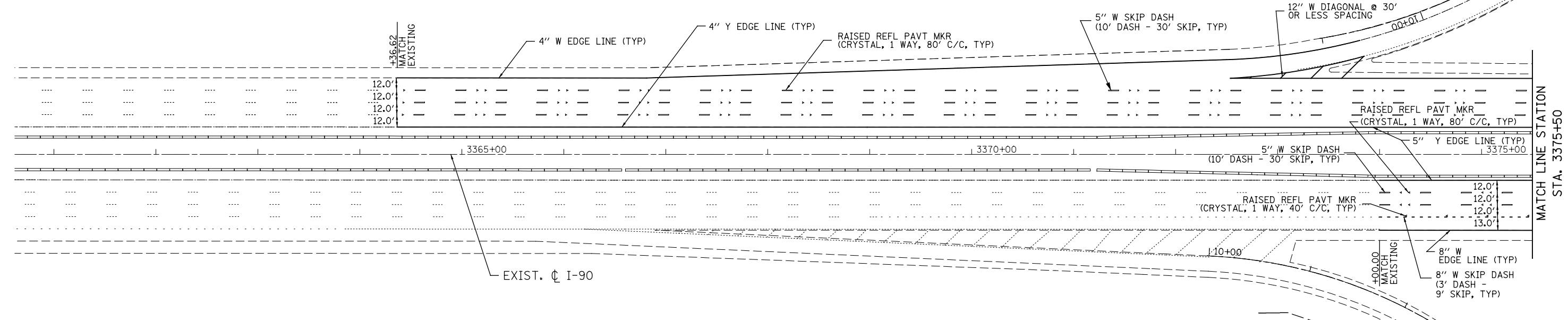
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PLOT SCALE = 1:1000	CHECKED - JAH	REVISED -										
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NOTES:

1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING.
2. FINAL PAVEMENT MARKING ON HMA PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKING.
3. THE CONTRACTOR SHALL CONTACT WALTER CZARNY AT 847-715-8419 TWO WEEKS PRIOR TO INSTALLING FINAL PAVEMENT MARKINGS.
4. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS PER IDOT DISTRICT ONE STANDARD TC-11
5. CONTRACTOR TO VERIFY THE REMOVAL OF ANY EXISTING SIGNS IN THE FIELD WITH THE ENGINEER

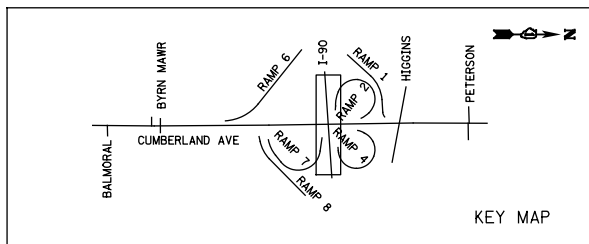
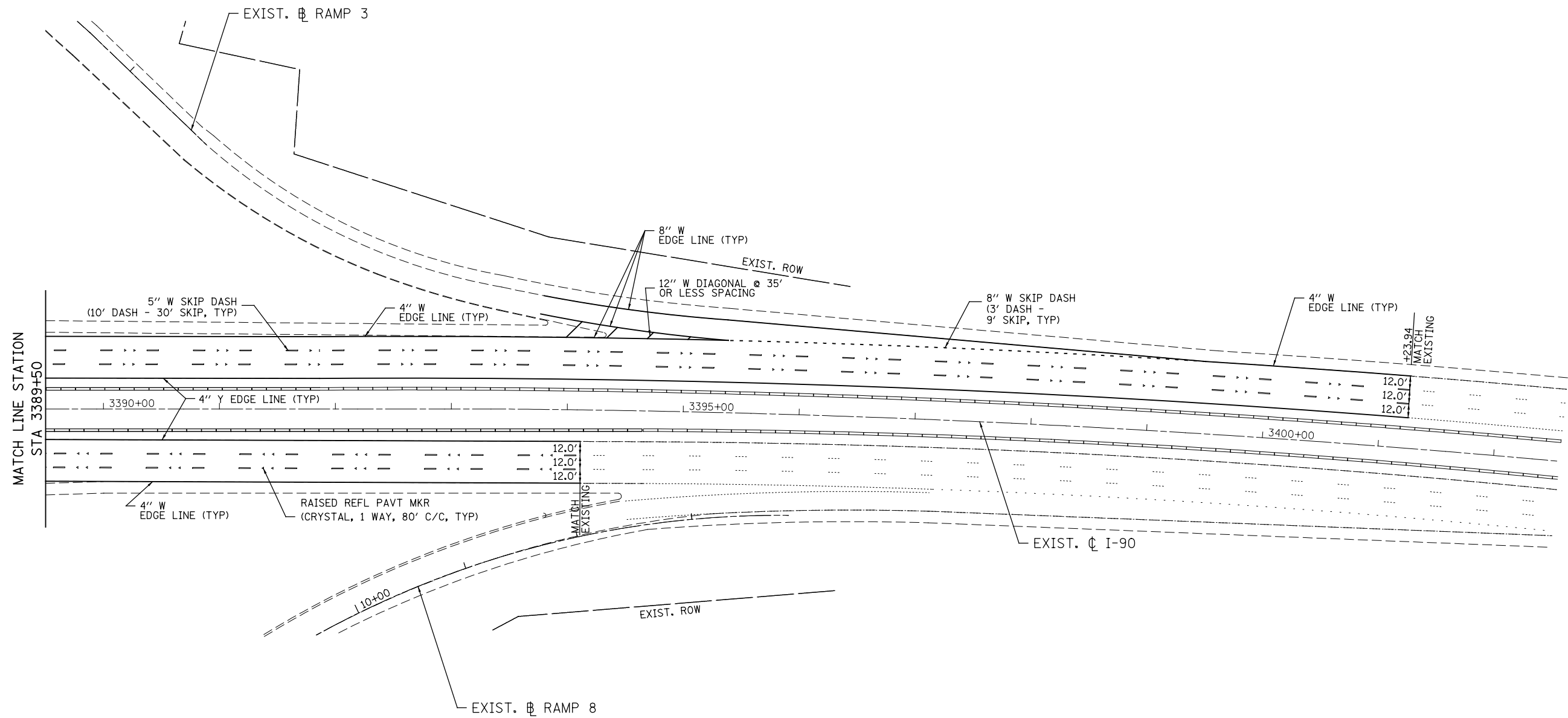
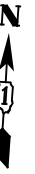


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
I-90

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	141
				60J14



- NOTES:
1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING.
 2. FINAL PAVEMENT MARKING ON HMA PAVEMENT SHALL BE THERMOPLASTIC PAVEMENT MARKING.
 3. THE CONTRACTOR SHALL CONTACT WALTER CZARNY AT 847-715-8419 TWO WEEKS PRIOR TO INSTALLING FINAL PAVEMENT MARKINGS.
 4. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS PER IDOT DISTRICT ONE STANDARD TC-11
 5. CONTRACTOR TO VERIFY THE REMOVAL OF ANY EXISTING SIGNS IN THE FIELD WITH THE ENGINEER

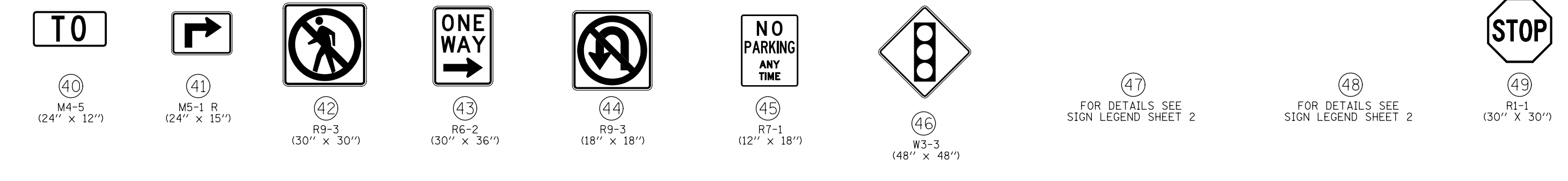
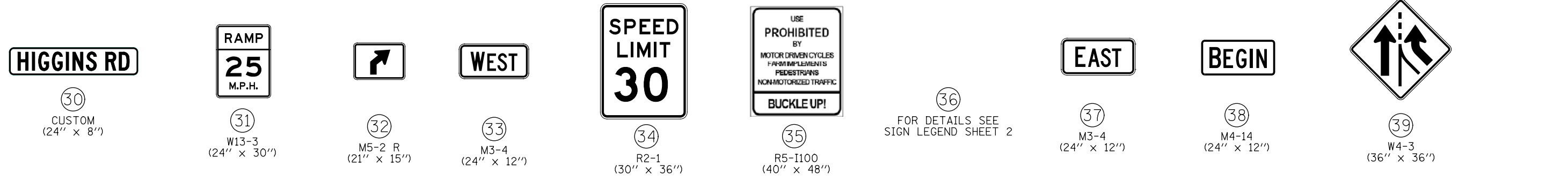
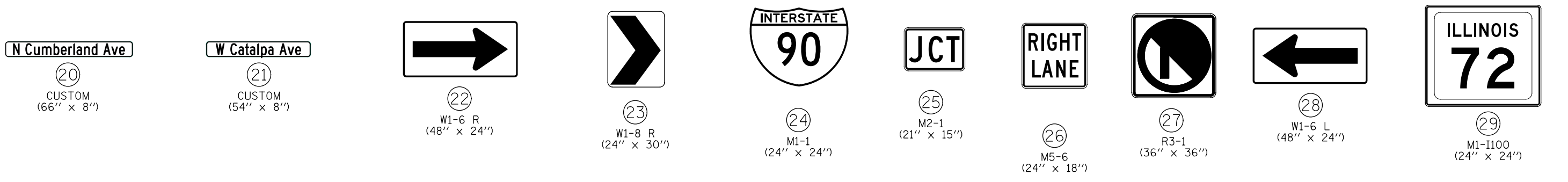
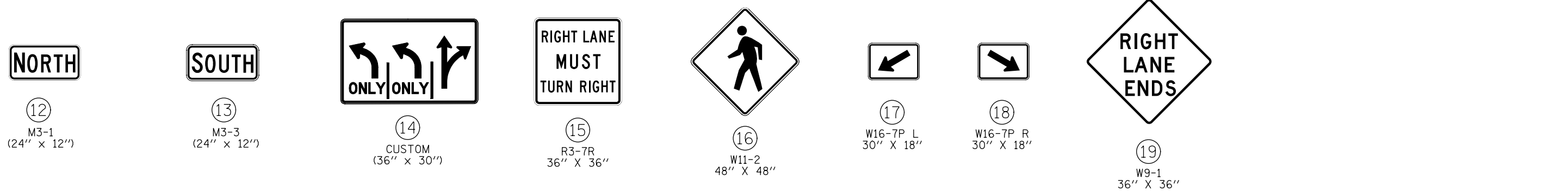
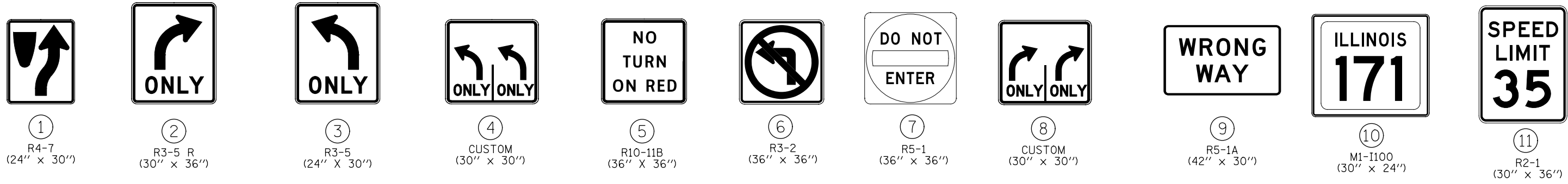
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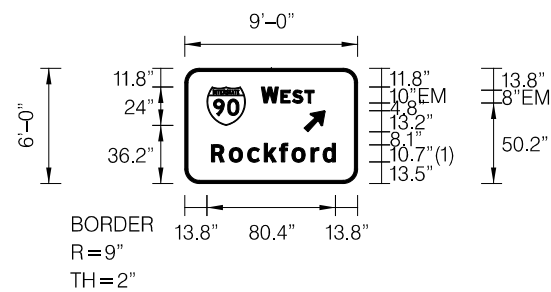
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN
I-90**

SCALE: 1"=50' SHEET PMK-07 OF 9 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	142
			60J14	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





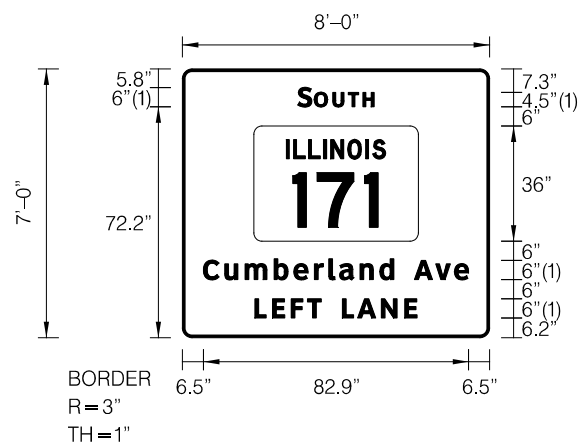
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(1) ClearviewHwy-5-W

SIGN NUMBER	name
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CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: Reflective COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	14.1	34.2	24	24
AR_Type A	315	74.8	30.3	10.6	16.8

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE	
W	E	S	T												EM 2000
48.1	60.1	67.5	75.1												33 10.8
R	o	c	k	f	o	r	d								EM 2000
14.1	24.6	34.2	44.6	53.9	60.7	71.2	78.2								71.2 10.78

SIGN NUMBER 36



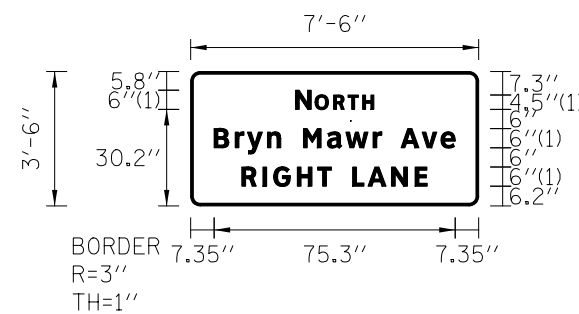
FONT:
(1) ClearviewHwy-5-W

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CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1-H100A-3-42-20D	0	22.3	30.2	51.4	36

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE	
S	O	U	T	H											ClearviewHwy-5-W
36.1	41.2	47	51.9	56.5											23.8 6.4.5
C	u	m	b	e	r	l	a	n	d	A	v	e			ClearviewHwy-5-W
6.5	13.2	19.6	28.7	34.8	41.3	45.8	49.1	55.5	61.7	66.1	72.6	79.2	85.1		82.9 6.4.9
L	E	F	T		L	A	N	E							ClearviewHwy-5-W
22.7	28.1	34	39.1	43.4	50	54.8	62.2	69.5							50.6 6

SIGN NUMBER 47



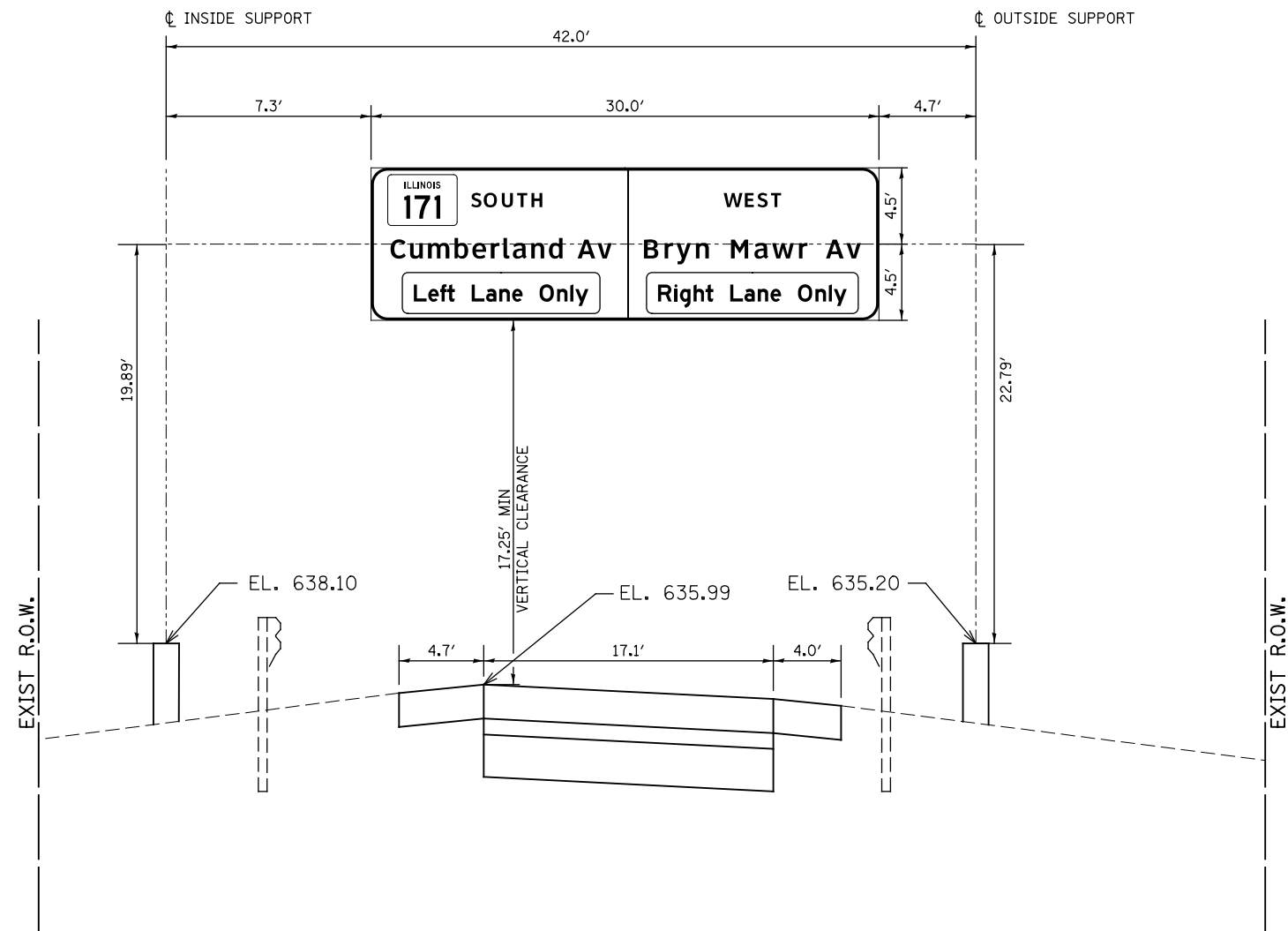
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LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE	
N	O	R	T	H											ClearviewHwy-5-W
32.8	38.9	44.7	49.2	53.8											24.5 6.4.5
B	r	y	n		M	a	w	r		A	v	e			ClearviewHwy-5-W
7.3	13.9	17.7	24	28.1	35.3	42.8	48.5	57	59.8	65.7	72.3	78.2	75.3		6.4.9
R	I	G	H	T		L	A	N	E						ClearviewHwy-5-W
16	22.6	25.9	33.3	39.7	44	50.6	55.4	62.8	70.1						57.9 6

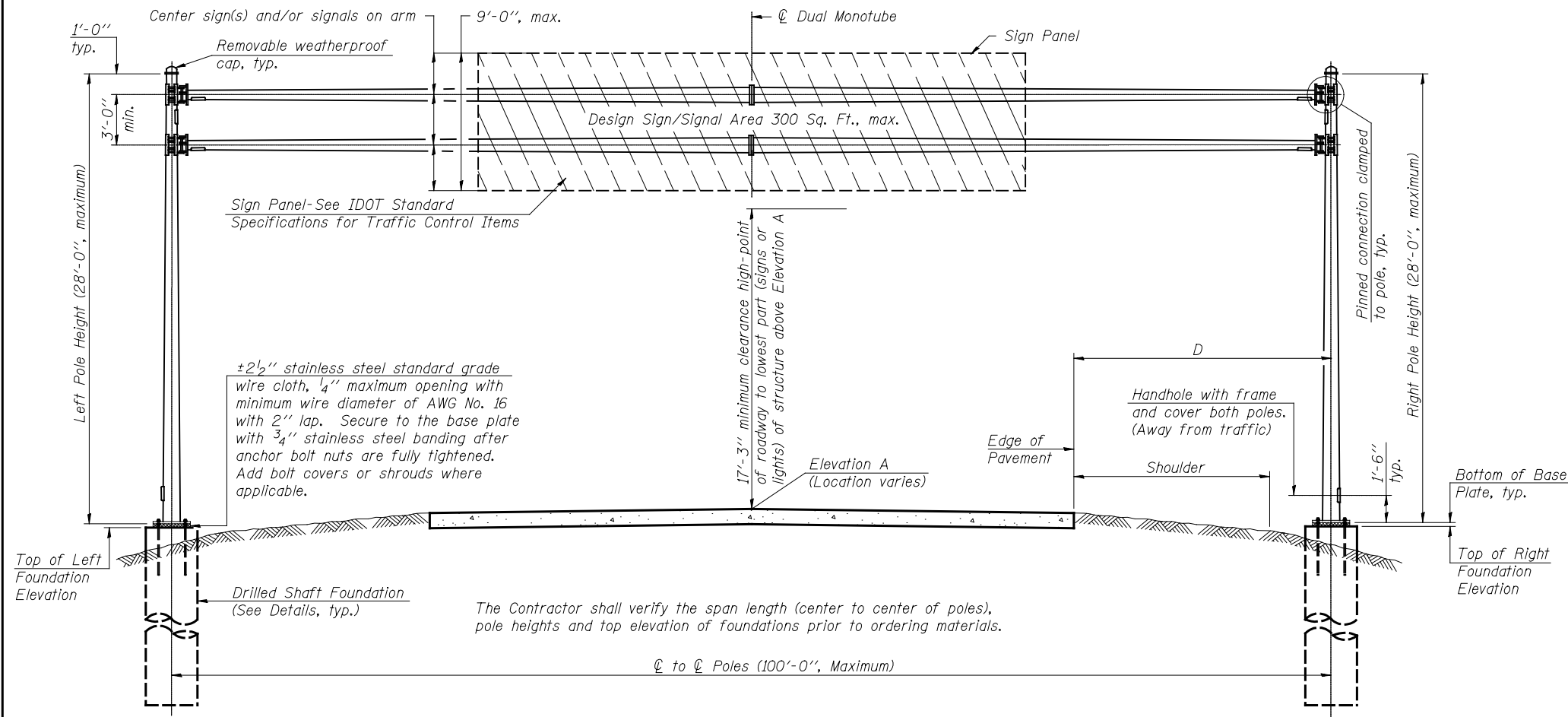
SIGN NUMBER 48

NOTE:
FONT:
(1) ClearviewHwy-5-W
(2) SEE PAVEMENT MARKING AND SIGNING PLAN FOR PLACEMENT INFORMATION



OVERHEAD SIGN
 I-90 RAMP 6
 STA. 12+95.00
 (LOOKING SOUTHEAST)

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkceppen(Rdwy_Lisle)	DESIGNED - CPK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURE SIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT CONFIG= PDF(Grey_Small).plt	DRAWN - MJP	REVISED -		2746	1616B	COOK	404	145			
	PLOT SCALE = 1:10	CHECKED - JAH	REVISED -		60J14							
	PLOT DATE = 2/19/2013 9:29:00 AM	DATE - 2/18/2013	REVISED -		SCALE:	SHEET	SGN-1 OF 10	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



GENERAL NOTES

DESIGN: Current (at time of letting) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (Fatigue Category II - natural wind gust only).

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Recurring Special Provisions. ("Standard Specifications") All references to "Mast Arm Assembly and Pole" are applicable, unless otherwise noted.

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

ANCHOR RODS: Shall conform to ASTM F1554 Grade 105. No welding shall be permitted on rods.

FASTENERS: All connection bolts shall be High Strength Bolts M164, Galvanize M232 (A153), Type 3, or stainless steel heavy hex conforming to ASTM A193, Grade B8 or B8M, Class 1. U-bolts shall be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished, or an equivalent material acceptable to the Engineer. Nuts for stainless steel bolts shall be stainless steel conforming to ASTM A194, Grade 8 (AISI Type 304) or Grade 8F (AISI Type 303). All nuts shall be "locknuts" with nylon or steel inserts and semifinished hexagonal heads equivalent to the finished heavy hex series of the American National Standard. Washers for stainless steel bolts shall be stainless steel conforming to ASTM A240, Type 302 or 304.

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

CAMBER: Minimum AASHTO camber = $L / 1000 + \text{dead load camber}$

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

The Contractor shall verify the span length (center to center of poles), pole heights and top elevation of foundations prior to ordering materials.

ELEVATION

Looking at face of signs.
Looking upstation for structures with signs both sides.

SIGN STRUCTURE DATA TABLE

Structure Number	Station	C to C Poles	Elevation A	Dimension D	Actual Sign/Signal Area	Left Foundation					Right Foundation					Class SI Concrete (Cu. Yds.)
						Elevation Top	Elev. Bottom	A	B	F	Elevation Top	Elev. Bottom	A	B	F	
IM016I190R000.6	12+95.00 (Ramp 6)	42.0	635.99	11'-2"	270	638.10	624.60	1'-6"	12'-0"	13'-6"	635.20	621.70	1'-6"	12'-0"	13'-6"	7.1

BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE- SPAN, DUAL MONOTUBE	Foot	42.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	7.1

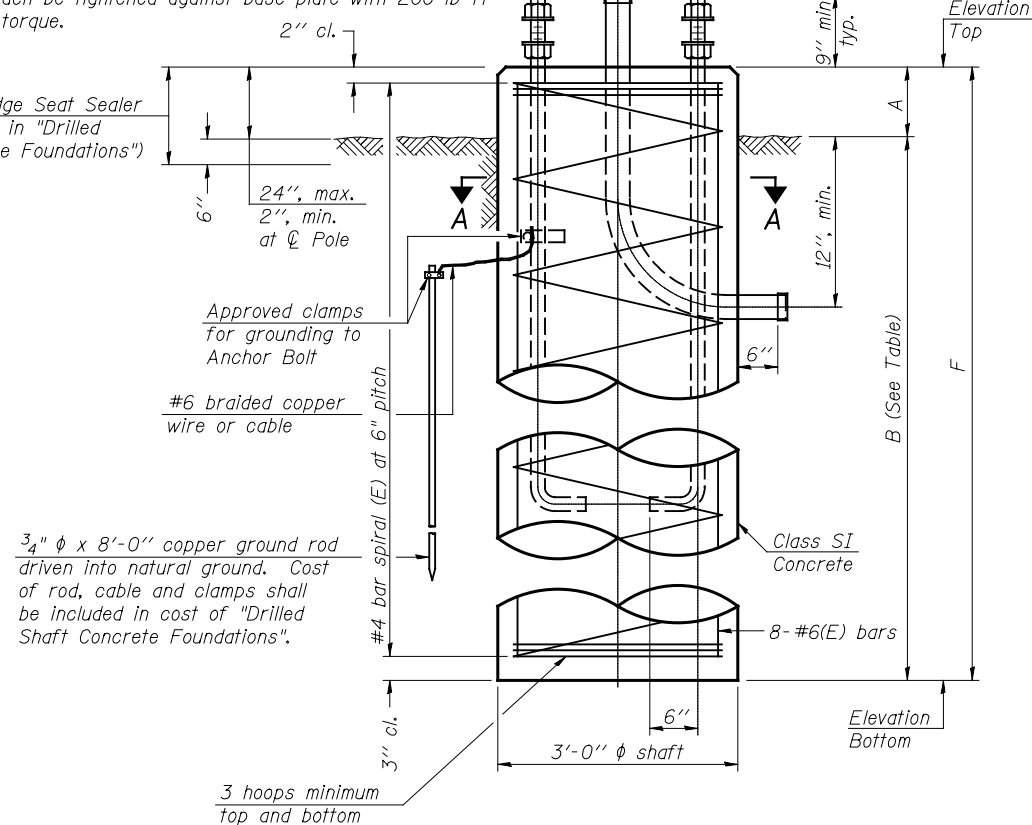
DUALTUBE - 1 6-1-12

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = PLOT SCALE = PLOT DATE =	DESIGNED - CPK DRAWN - MJP CHECKED - JAH DATE - 2/18/2013	REVISED REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELEVATION AND NOTES DUAL MONOTUBE SIGN STRUCTURE	F.A.U RTE. = 2746 SECTION = 1616B COUNTY = COOK TOTAL SHEETS = 404 SHEET NO. = 147	CONTRACT NO. 60J14 ILLINOIS FED. AID PROJECT
	SCALE: SHEET NO. SGN-3 OF 10 SHEETS						
	Q:\IDOT\21850_006_CumberlandAve\Drawings\CADD Sheets\0160J14-shr-sign-OHDT1.dgn						

Ø anchor rod. Thread upper 8". Galvanize upper 19" per AASHTO M232. Provide one hexagon locknut and washer (top) and one leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb-ft torque.

Ø 3" Ø galvanized steel conduit. Thread and cap both ends.

Limits of Bridge Seat Sealer (Cost included in "Drilled Shaft Concrete Foundations")



Span (Ft.)	B (Ft.)
Span ≤ 65	12
65 < Span ≤ 85	13
85 < Span ≤ 100	14

FOUNDATIONS:

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.

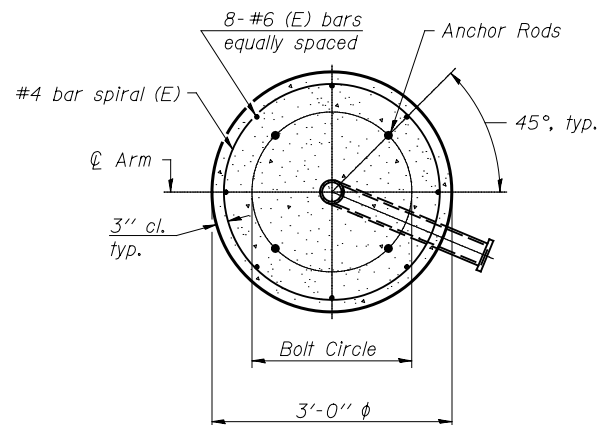
Concrete shall be placed monolithically, without construction joints.

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

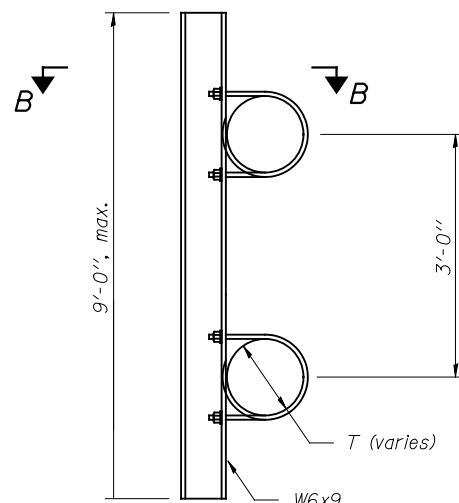
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DETAILS

Typical, except conduit may only be required at one foundation. Provide conduit openings both poles.

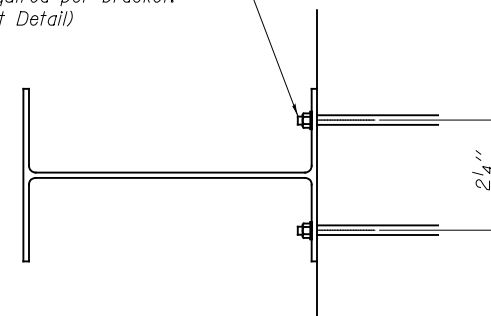


SECTION A-A



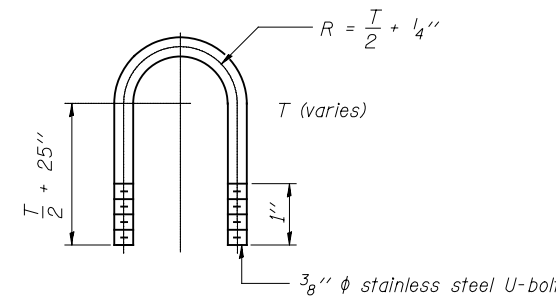
SIGN MOUNTING BRACKET

3/8" Ø stainless steel U-bolt (Provide 2 stainless steel washers and 2 hex locknuts per bolt.) 2 bolts required per bracket. (See U-Bolt Detail)



SECTION B-B

6'-0" maximum spacing. 2'-0" maximum sign overhang beyond end bracket.



U-BOLT DETAIL
(Typical)

DUALTUBE - 2 6-1-12

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

USER NAME =	DESIGNED - CPK	REVISED
DRAWN - MJP	REVISIONS	
PLOT SCALE =	CHECKED - JAH	REVISED
PLOT DATE =	DATE - 2/18/2013	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOUNDATION AND DETAILS
DUAL MONOTUBE SIGN STRUCTURE

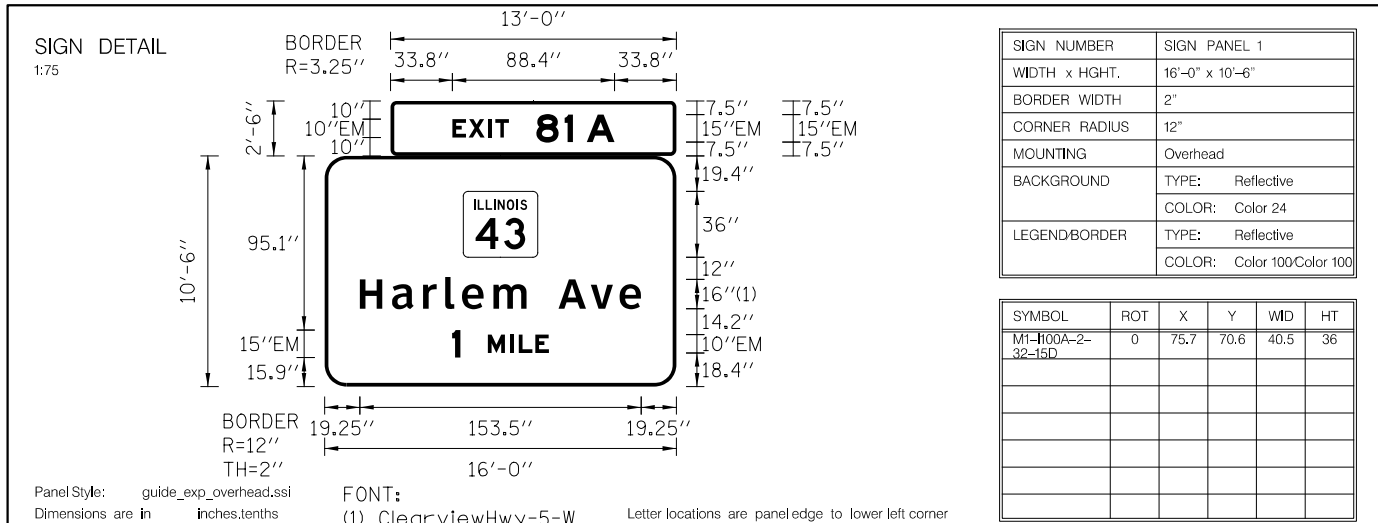
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	148
CONTRACT NO. 60J14			ILLINOIS FED. AID PROJECT	

BLOOM COMPANIES, LLC.		BORING LOG		Chicago, IL				
JOB NO:	BM3-1334	CLIENT:	Illinois Department of Transportation	BORING NO:	B-1			
PROJECT:	Proposed Retaining Wall and Sign Structure	STATION:	11+95	PROJECT:	Proposed Retaining Wall and Sign Structure			
LOCATION:	Cumberland Avenue Exit Ramp at I-90 East	OFFSET:	21.0 RT	LOCATION:	Cumberland Avenue Exit Ramp at I-90 East			
BORING RIG & METHOD:	Diedrich D-50 w/Hollow Stem Augers		SURF ELEV:	636.4	BORING RIG & METHOD:	Diedrich D-50 w/Hollow Stem Augers		
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAIN %	WATER CONTENT %
	0.0-1.0	635.8	3.5" Bituminous Concrete Pavement		Auger			3.8
		634.9	FILL: Gr Sand A-1-a, trace Gravel					
	1.0-2.5			14	4	2.4	15	12.2
5	3.5-5.0		Very Stiff Gr Silty Clay A-6, trace Gravel	10	4	(3.2)		19.3
	6.0-7.5	629.4		14	4			18.4
10	8.5-10.0		Medium Dense Gr Sand A-3, trace Gravel	16	3			8.1
	11.0-12.5	623.4		18	5			15.1
			Medium Dense Gr Sand A-2-4, trace Gravel					
15	13.5-15.0	621.4		16	5			20.8
	16.0-17.5		Stiff Gr Silty Clay A-4, trace Gravel	18	3	1.6	15	11.7
20	18.5-20.0	616.4		12	7	(1.2)		13.7
			Boring Terminated @ 20 feet					
REMARKS Caved in at 10.5'. Backfilled w/soil cutting and Bentonite Chips. - Automatic Hammer Used.						() Denotes Calibrated Penetrometer Estimate		
WATER	13.5 FT. ELEV.	622.9	DURING DRILLING	☒	CORE SIZE	IN.	DATE:	Nov 28, 11
WATER	Dry FT. ELEV.		AT COMPLETION	☒	CASING LENGTH	FT.	DRILLER:	G. Shlmon
WATER	FT. ELEV.		AFTER HRS.	☒	CASING DIAMETER	IN.	INSPECTOR:	M. Sanati

BLOOM COMPANIES, LLC.		BORING LOG		Chicago, IL				
JOB NO:	BM3-1334	CLIENT:	Illinois Department of Transportation	BORING NO:	B-2			
PROJECT:	Proposed Retaining Wall and Sign Structure	STATION:	11+95	PROJECT:	Proposed Retaining Wall and Sign Structure			
LOCATION:	Cumberland Avenue Exit Ramp at I-90 East	OFFSET:	12.0 LT	LOCATION:	Cumberland Avenue Exit Ramp at I-90 East			
BORING RIG & METHOD:	Diedrich D-50 w/Hollow Stem Augers		SURF ELEV:	636.6	BORING RIG & METHOD:	Diedrich D-50 w/Hollow Stem Augers		
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAIN %	WATER CONTENT %
	0.0-1.0	635.6	FILL: Br to Gr Silty Clay A-7-6, trace Gravel		Auger			11.2
	1.0-2.5			13	5	3.8	15	11.7
5	3.5-5.0		Stiff to Very Stiff Gr Silty Clay A-6 (occasional sand seams)	14	3	1.5	15	18.8
	6.0-7.5			12	4			12.6
10	8.5-10.0	628.6		16	2			16.7
			Loose Gr/Br M-C Sand A-3, trace Gravel					
	11.0-12.5	625.6		18	5			10.9
			Loose to Medium Dense Gr Sand A-2-4					
15	13.5-15.0			18	7			18.3
	16.0-17.5	619.1		18	3			21.2
			Very Stiff Gr Silty Clay A-6, trace Gravel					
20	18.5-20.0	616.6		18	5			16.1
			Boring Terminated @ 20 feet					
REMARKS Caved in at 10.5'. Backfilled w/soil cutting and Bentonite Chips. - Automatic Hammer Used.						() Denotes Calibrated Penetrometer Estimate		
WATER	13.5 FT. ELEV.	623.1	DURING DRILLING	☒	CORE SIZE	IN.	DATE:	Nov 28, 11
WATER	Dry FT. ELEV.		AT COMPLETION	☒	CASING LENGTH	FT.	DRILLER:	G. Shlmon
WATER	FT. ELEV.		AFTER HRS.	☒	CASING DIAMETER	IN.	INSPECTOR:	M. Sanati

BLOOM COMPANIES, LLC.		BORING LOG		Chicago, IL				
JOB NO:	BM3-1334	CLIENT:	Illinois Department of Transportation	BORING NO:	B-3			
PROJECT:	Proposed Retaining Wall and Sign Structure	STATION:	14+58	PROJECT:	Proposed Retaining Wall and Sign Structure			
LOCATION:	Cumberland Avenue Exit Ramp at I-90 East	OFFSET:	16.8 RT	LOCATION:	Cumberland Avenue Exit Ramp at I-90 East			
BORING RIG & METHOD:	Diedrich D-50 w/Hollow Stem Augers		SURF ELEV:	634.8	BORING RIG & METHOD:	Diedrich D-50 w/Hollow Stem Augers		
DEPTH	SAMPLE FROM - TO	ELEV.	SOIL DESCRIPTION	REC.	BLOWS/6"	q _u	STRAIN %	WATER CONTENT %
	0.0-1.0	634.1	6.5" Bituminous Concrete Pavement		Auger			1.5
	1.0-2.5	632.8	FILL: Gray Sand A-1-a, trace Gravel	12	5	(1.5)		17.7
5	3.5-5.0		Stiff to Very Stiff Gr Silty Clay A-6, trace Gravel	16	2	3.5	15	16.6
	6.0-7.5			14	2			18.8
10	8.5-10.0	626.8		14	9			18.6
			Medium Dense Gr Sand A-2-4, trace Gravel					
	11.0-12.5	624.8		13	2			19.9
15	13.5-15.0		Stiff to Very Stiff Gr Silty Clay A-6, trace Gravel	16	3	2.8	15	22.8
	16.0-17.5			16	6	3.0	15	10.5
20	18.5-20.0	614.8		16	3			20.3
			Boring Terminated @ 20 feet					
REMARKS Caved in at 15'. Backfilled w/soil cutting, Bentonite Chips and Cold Asphalt patch. - Automatic Hammer Used.						() Denotes Calibrated Penetrometer Estimate		
WATER	11.0 FT. ELEV.	623.8	DURING DRILLING	☒	CORE SIZE	IN.	DATE:	Nov 28, 11
WATER	14.0 FT. ELEV.	620.8	AT COMPLETION	☒	CASING LENGTH	FT.	DRILLER:	G. Shlmon
WATER	FT. ELEV.		AFTER HRS.	☒	CASING DIAMETER	IN.	INSPECTOR:	M. Sanati

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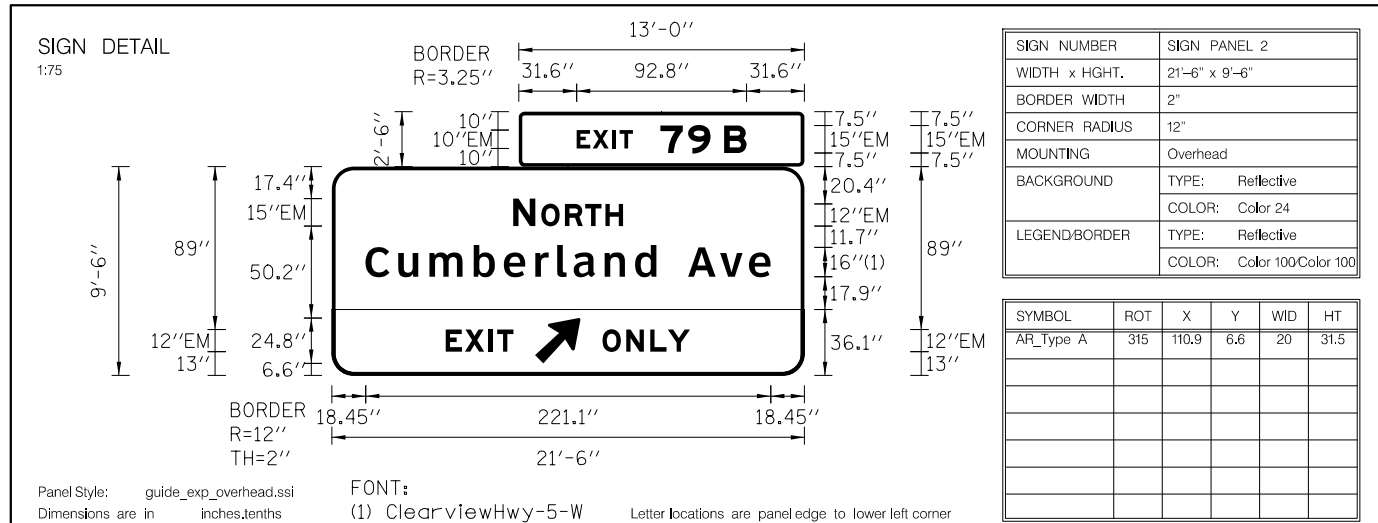


SIGN NUMBER	SIGN PANEL 1
WIDTH x HGHT.	16'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: Reflective COLOR: Color 100/Color 100

SYMBOL	ROT	X	Y	WD	HT
M1-H00A-2-32-15D	0	75.7	70.6	40.5	36

Panel Style: guide_exp_overhead.ssi FONT: (1) ClearviewHwy-5-W Letter locations are paneledge to lower left corner
 Dimensions are in inches,tenths

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE	
E	X	I	T	B	1	A								EM 2000	
33.8	42.6	53.4	57.2	79.6	95	107								88.4	10,15
H	a	r	l	e	m		A	v	e					ClearviewHwy-5-W	
19.2	36.8	53.8	65.8	75	92.2	110.4	127.7	145.3	161					153.5	16/13
1	M	I	L	E										EM 2000	
69.6	89.1	101.2	106	115										52.8	15,10



SIGN NUMBER	SIGN PANEL 2
WIDTH x HGHT.	21'-6" x 9'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Color 24
LEGEND/BORDER	TYPE: Reflective COLOR: Color 100/Color 100

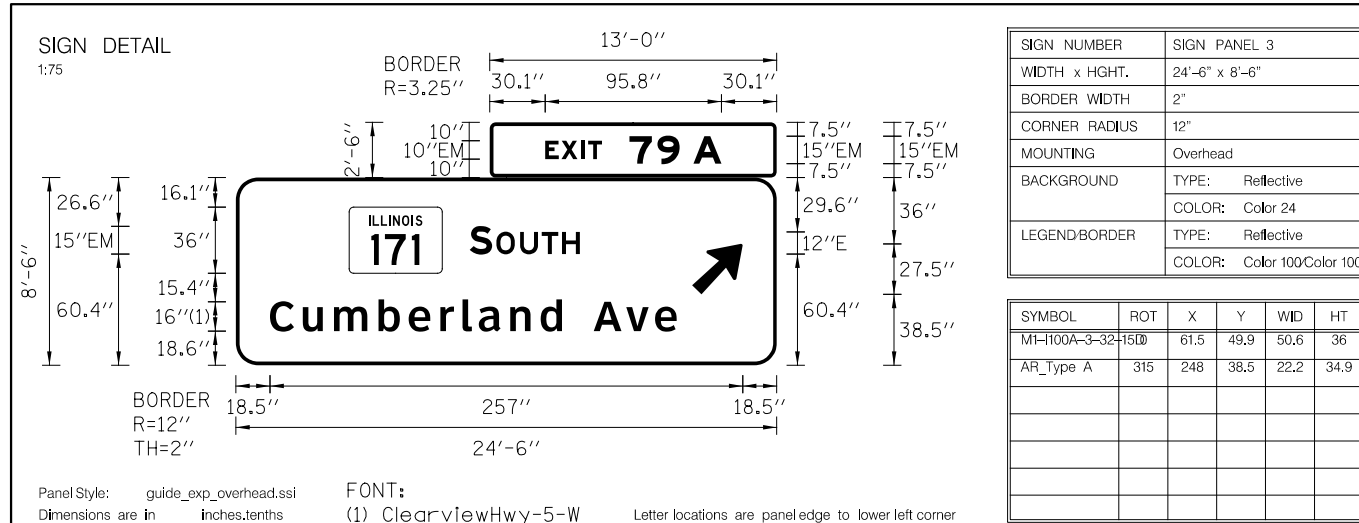
SYMBOL	ROT	X	Y	WD	HT
AR_Type A	315	110.9	6.6	20	31.5

Panel Style: guide_exp_overhead.ssi FONT: (1) ClearviewHwy-5-W Letter locations are paneledge to lower left corner
 Dimensions are in inches,tenths

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE	
E	X	I	T	7	9	B								EM 2000	
31.6	40.4	51.2	55	77.4	92.6	112.2								92.8	10,15
N	O	R	T	H										EM 2000	
99	114.3	127.3	138.3	149.3										60.1	15,12
C	u	m	b	e	r	l	a	n	d		A	v	e	ClearviewHwy-5-W	
18.4	36.3	53.3	77.5	93.9	111.1	123.1	132	149	165.6	177.2	194.5	212.1	227.8	221.1	16/13
E	X	I	T											EM 2000	
62.2	72.7	85.7	90.2											37	12
O	N	L	Y											EM 2000	
147.7	160.7	173.8	183.4											47.8	12

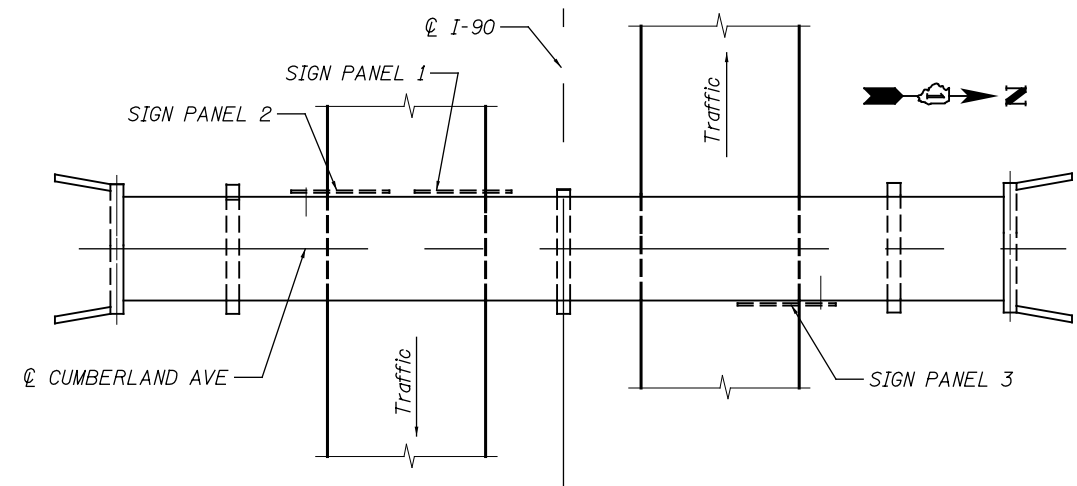
NOTE:
 (1) SEE BRIDGE MOUNTED SIGN PANEL LAYOUT DETAIL.

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LETTER POSITIONS (X)

LETTER	X	LENGTH	SERIES/SIZE
E	30.1	95.8	EM 2000
X	38.9		10,15
I	49.7		
T	53.5		
7	75.9		
9	91.1		
A	110.7		
S	127.1	59.8	EM 2000, E 2000
O	141.6		15,12
U	154.4		
T	166.2		
H	177.2		
C	18.5	221.1	ClearviewHwy-5-W
u	36.4		1613
m	53.4		
b	77.6		
e	94		
r	111.2		
i	123.2		
a	132.1		
n	149.1		
d	165.6		
A	177.3		
v	194.5		
e	212.1		
	227.9		



BRIDGE MOUNTED SIGN PANEL LAYOUT

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GENERAL NOTES

SPECIFICATIONS:

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

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

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

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

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

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

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

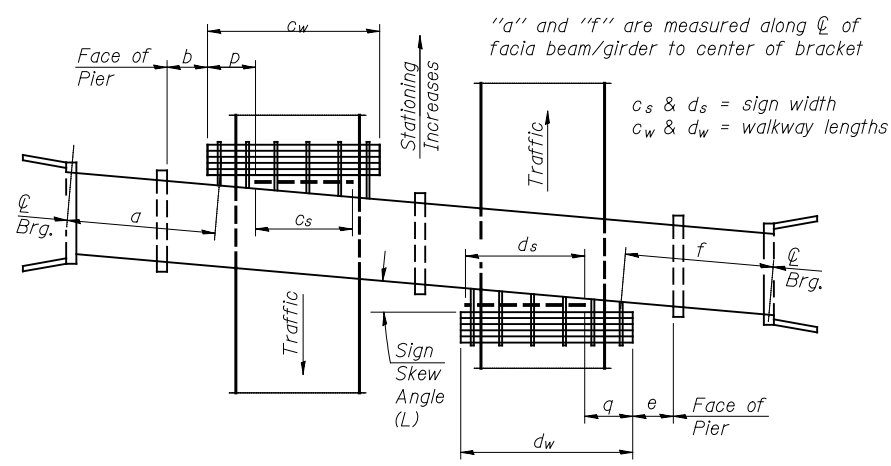
ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" φ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum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

(1) Bracket spacing $g \leq 6'-0"$, max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.

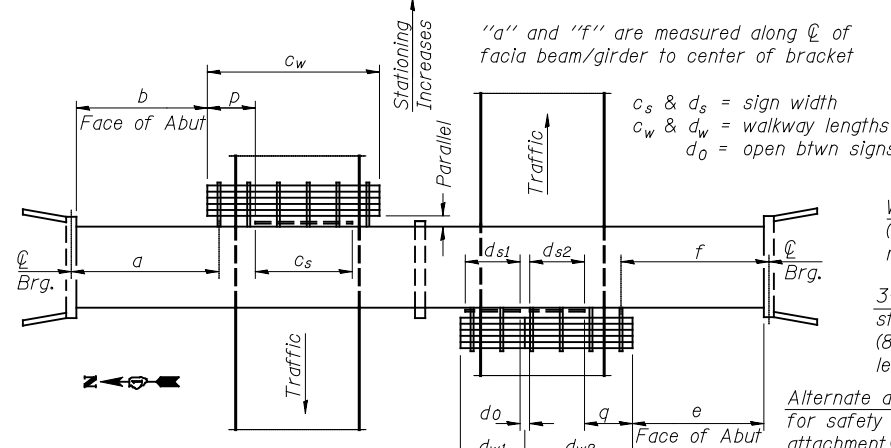
(2) Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.

(3) Unit price includes brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on sign panel length (c_s , d_{s1} , d_{s2}).

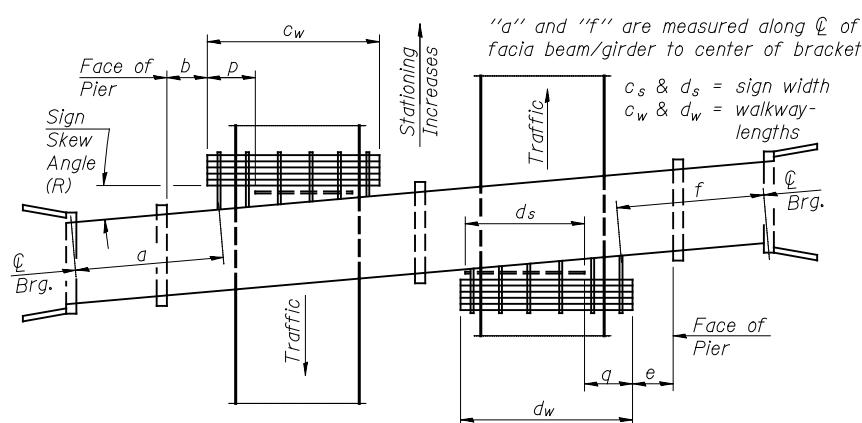
(4) Walkway and lighting not required. Use alternate brackets without walkway supports.



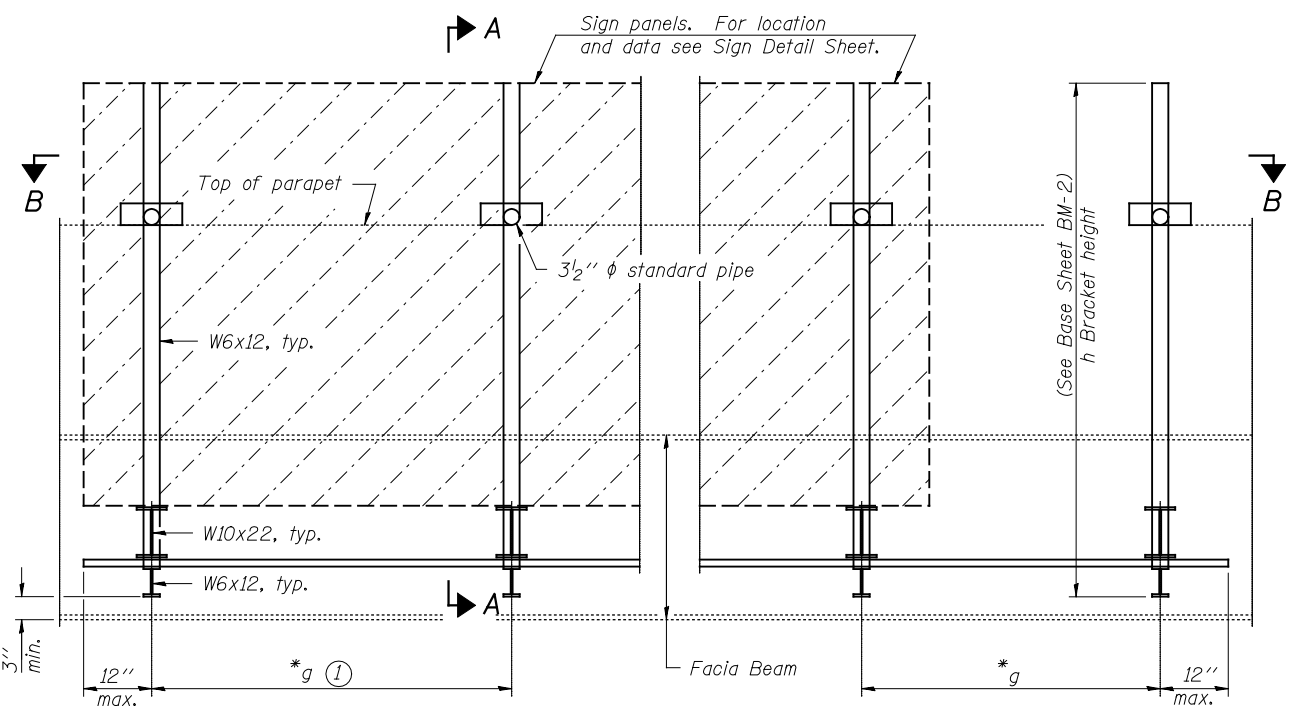
PLAN
(Left Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



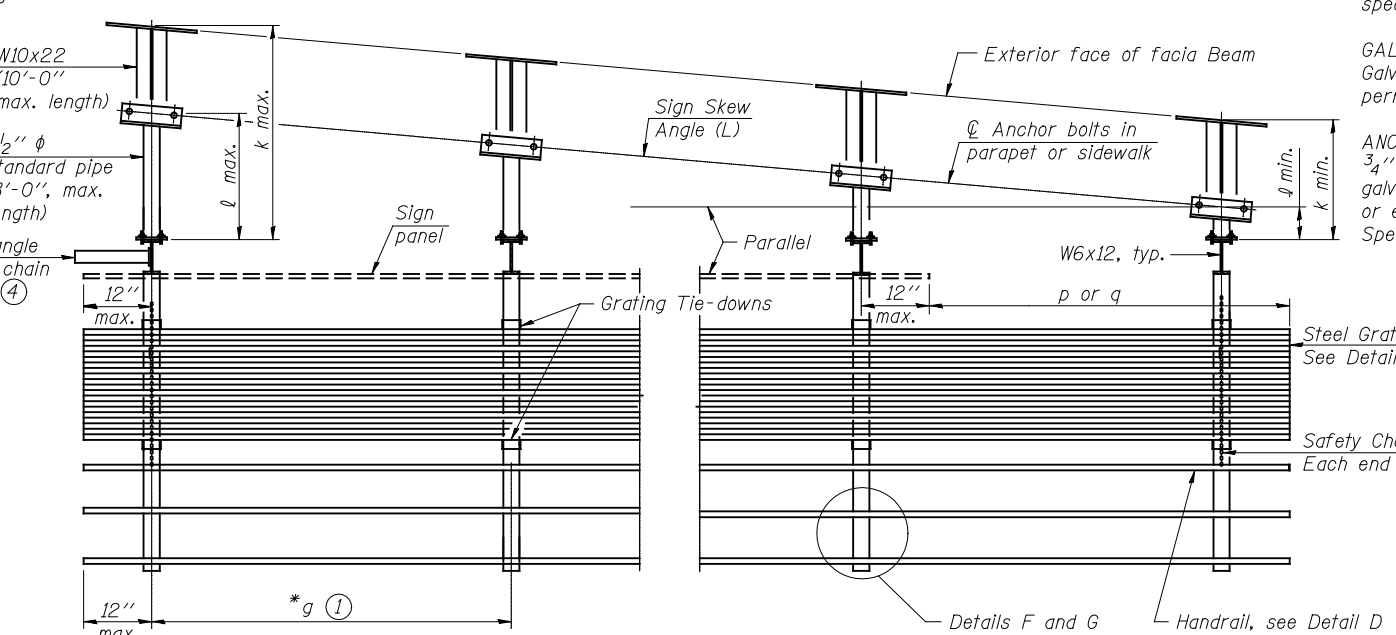
PLAN
(For Sign Skew $\leq 15^\circ$, all brackets constant)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



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



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



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

TOTAL BILL OF MATERIAL

(3) OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	62.0
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Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c _s	c _w	d ₀	d _{s1}	d _{s2}	d _{w1}	d _{w2}	e	f	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c _w + d _w)
1B0161090R064.1	3° L	3383+30	016-1250	2746	—	—	—	—	4'-6"	16'-0"	21'-6"	—	—	—	43'-11 ⁵ / ₈ "	9	—	—	—
1B0161090L064.1	3° L	3383+30	016-1250	2746	64'-11 ³ / ₄ "	—	24'-6"	—	—	—	—	—	—	—	—	5	—	—	—

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

BM-1

6-1-12

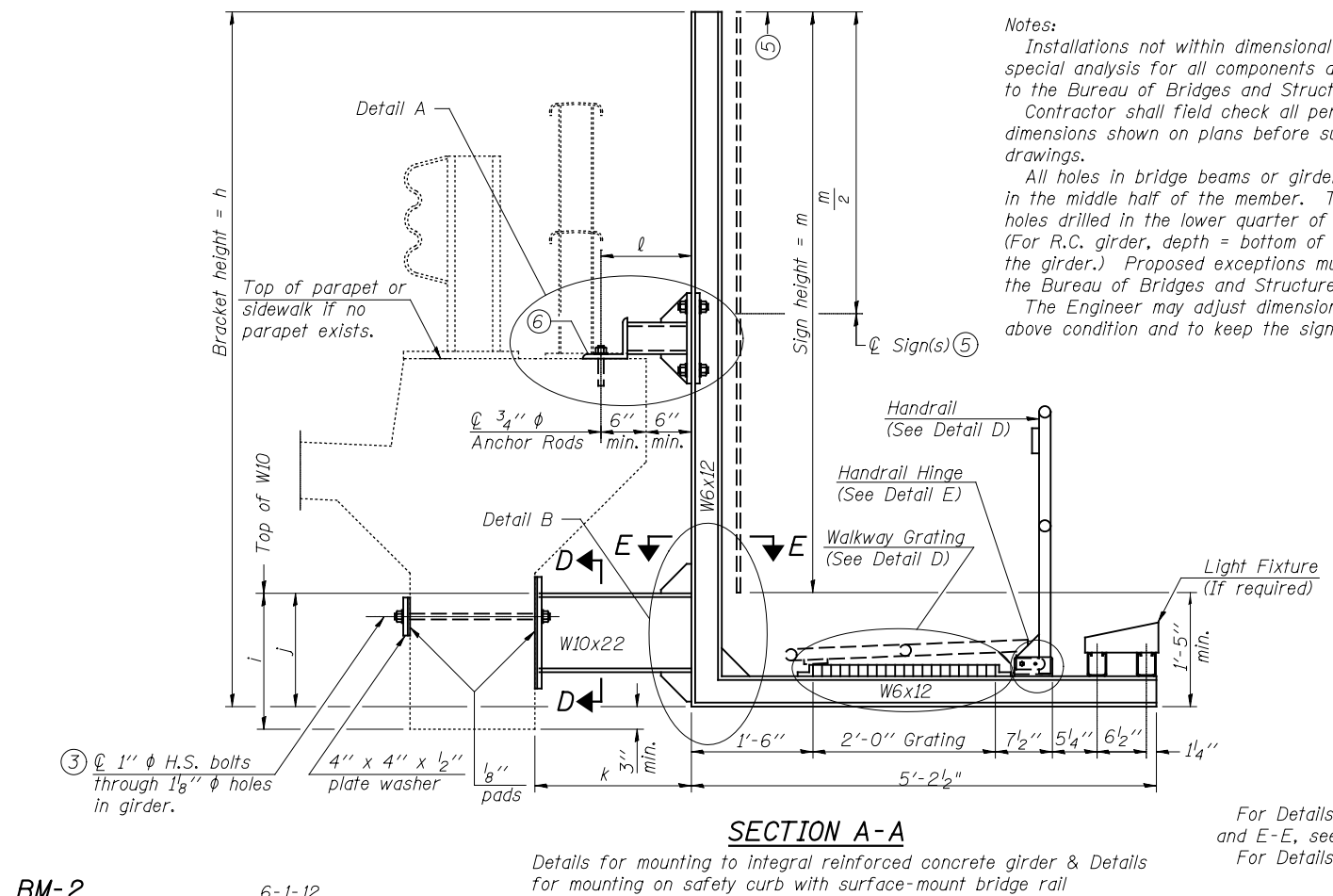
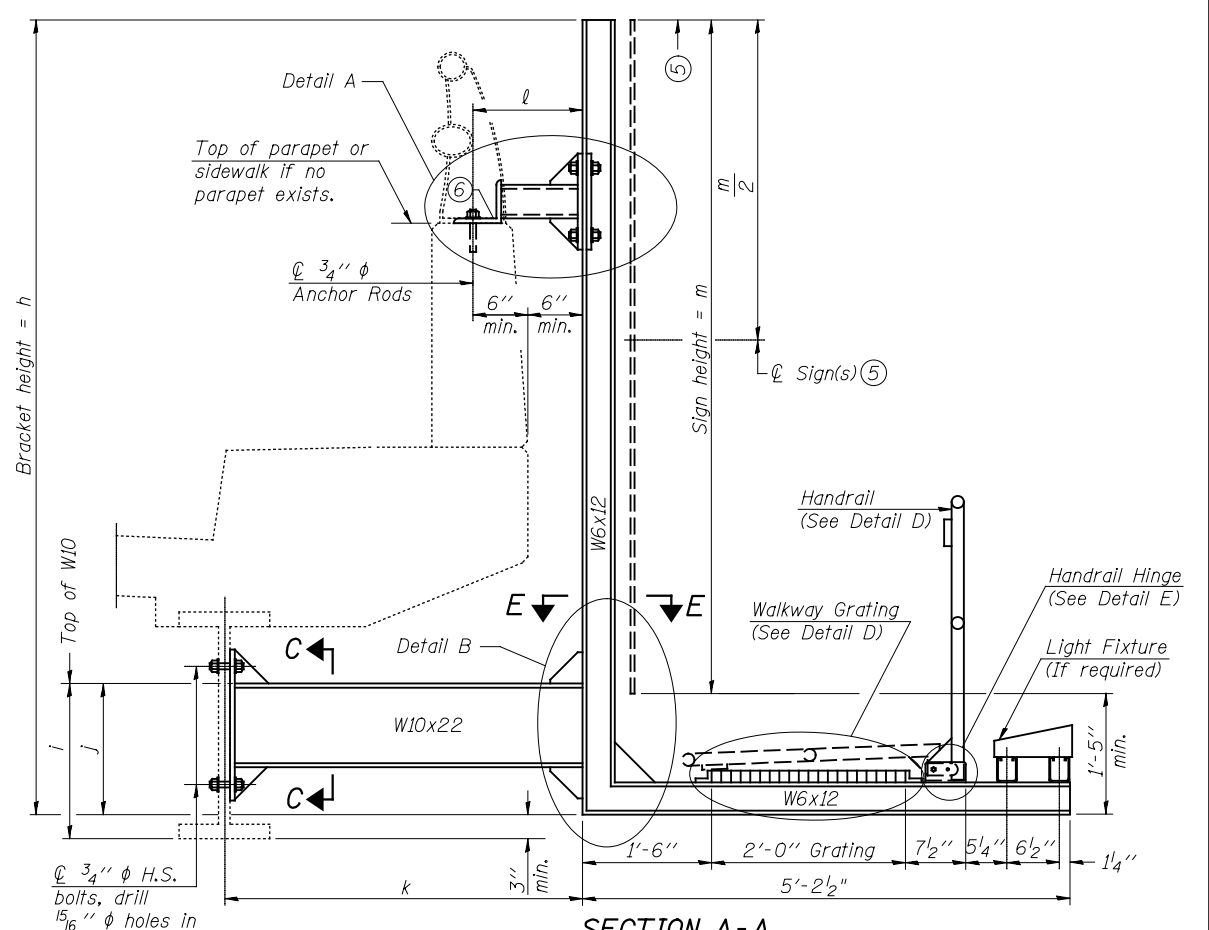
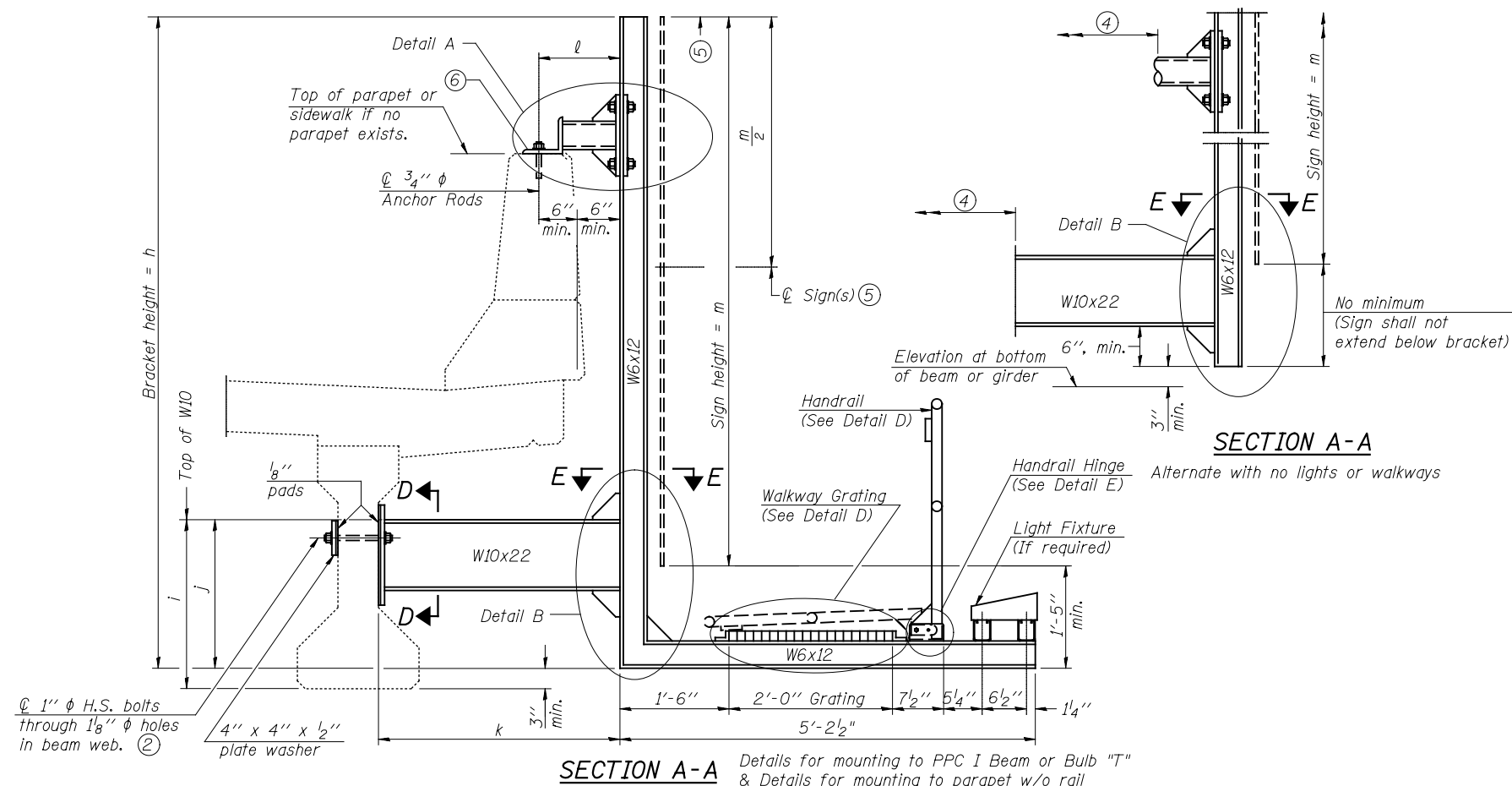
PATRICK ENGINEERING INC.
4870 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

DESIGNED - RLD	REVISIONS
DRAWN - CPK	REVISIONS
CHECKED - JAH	REVISIONS
DATE - 2/18/2013	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNTED SIGN STRUCTURE
GENERAL PLAN AND ELEVATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	152
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				



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

- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- ④ For attachment details of 3 1/2" pipe and W10x22, see other sections as applicable.
- ⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- ⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
1B01610900R64.1	3382+60	13'-3"	2'-4"	2'-1"	4'-4"	1'-10"	13'-0"
1B01610900L64.1	3384+00	11'-3"	2'-4"	2'-1"	3'-6"	1'-0"	11'-0"

BM-2 6-1-12

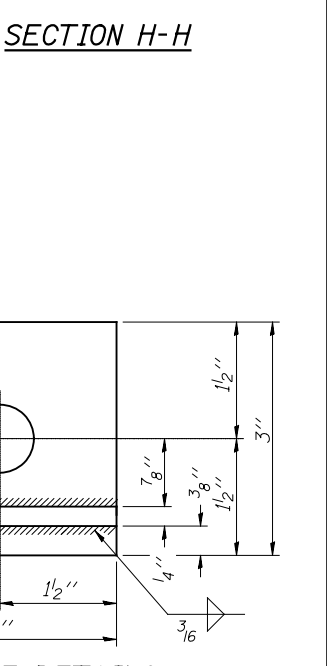
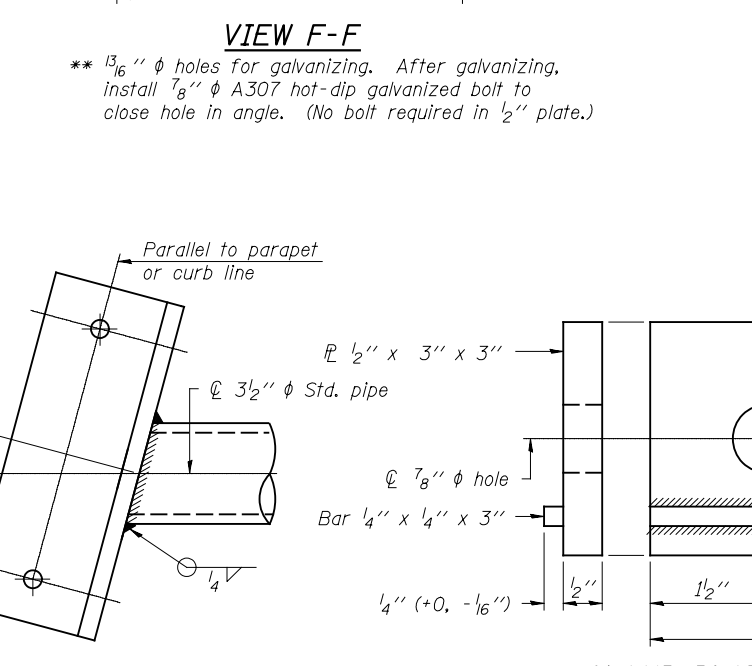
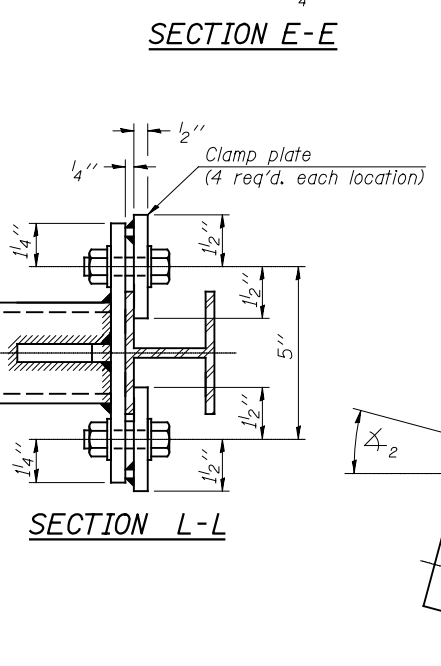
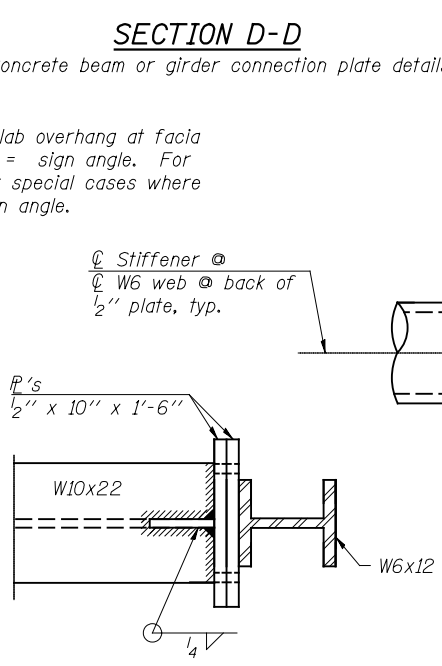
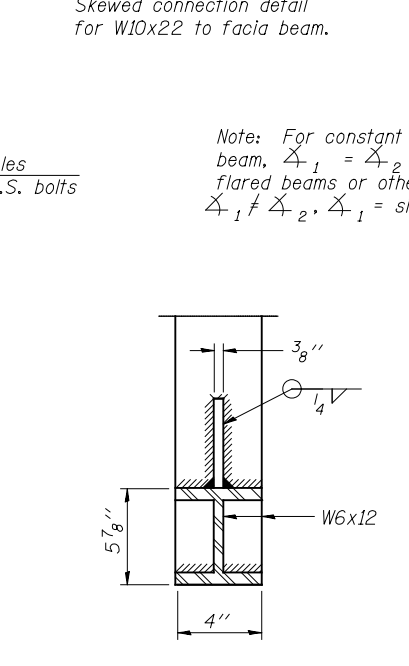
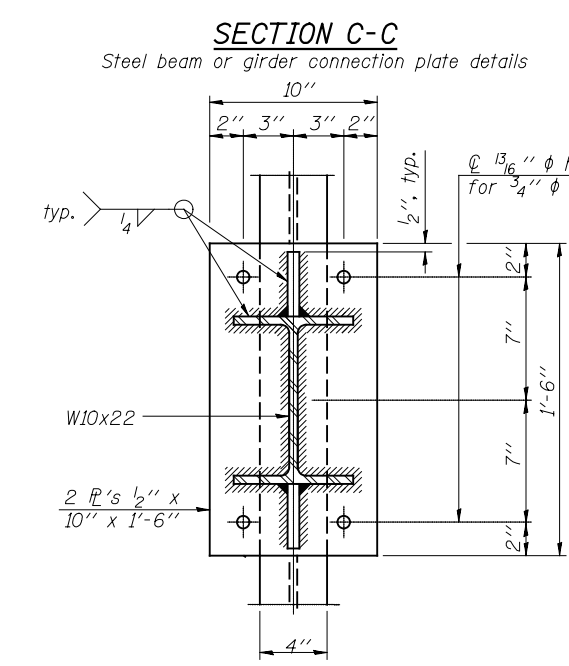
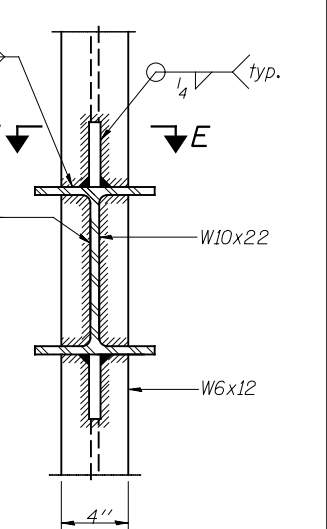
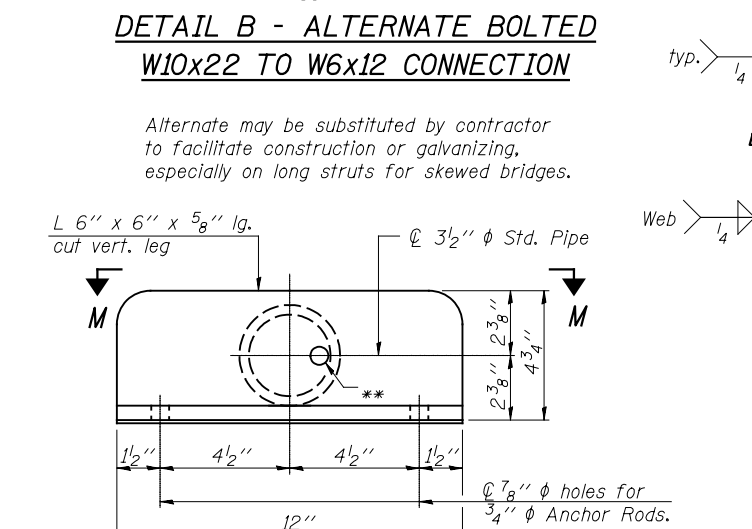
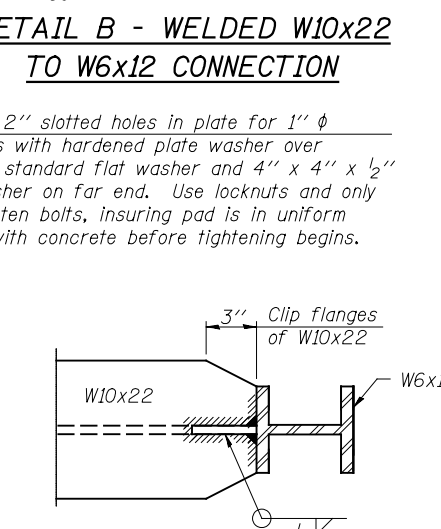
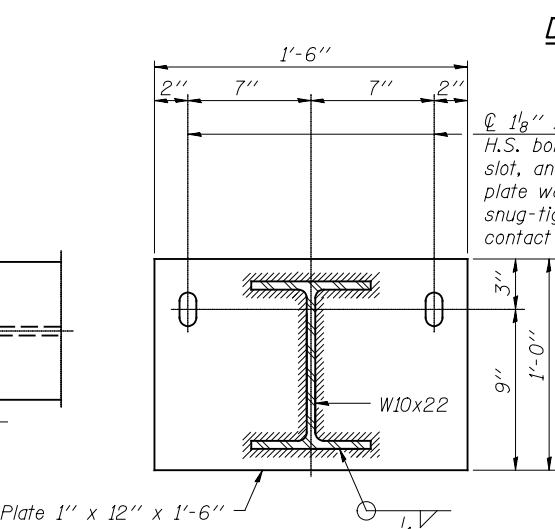
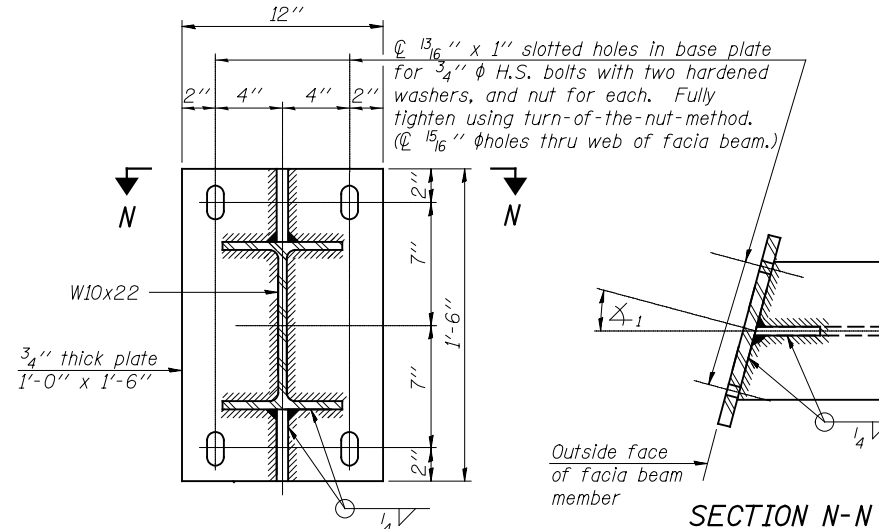
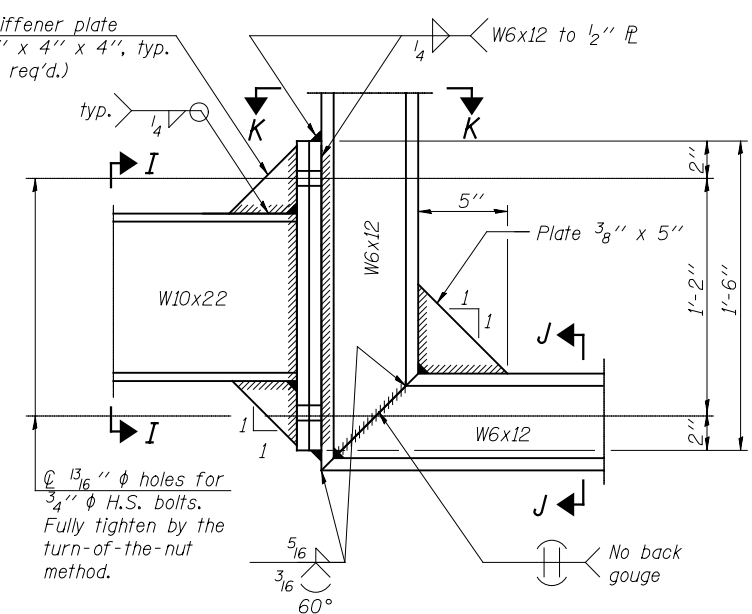
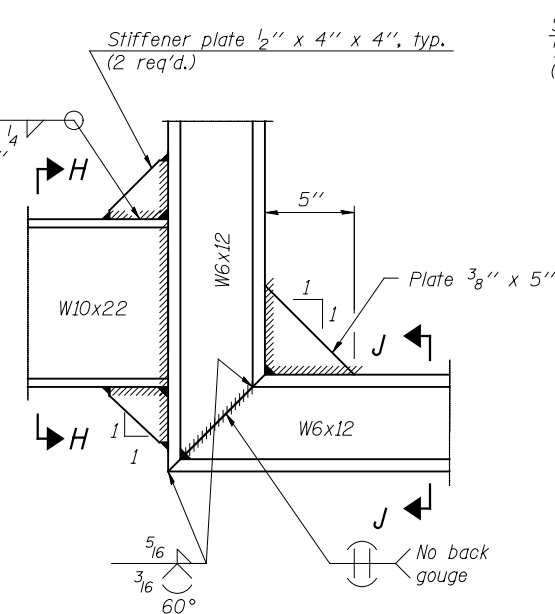
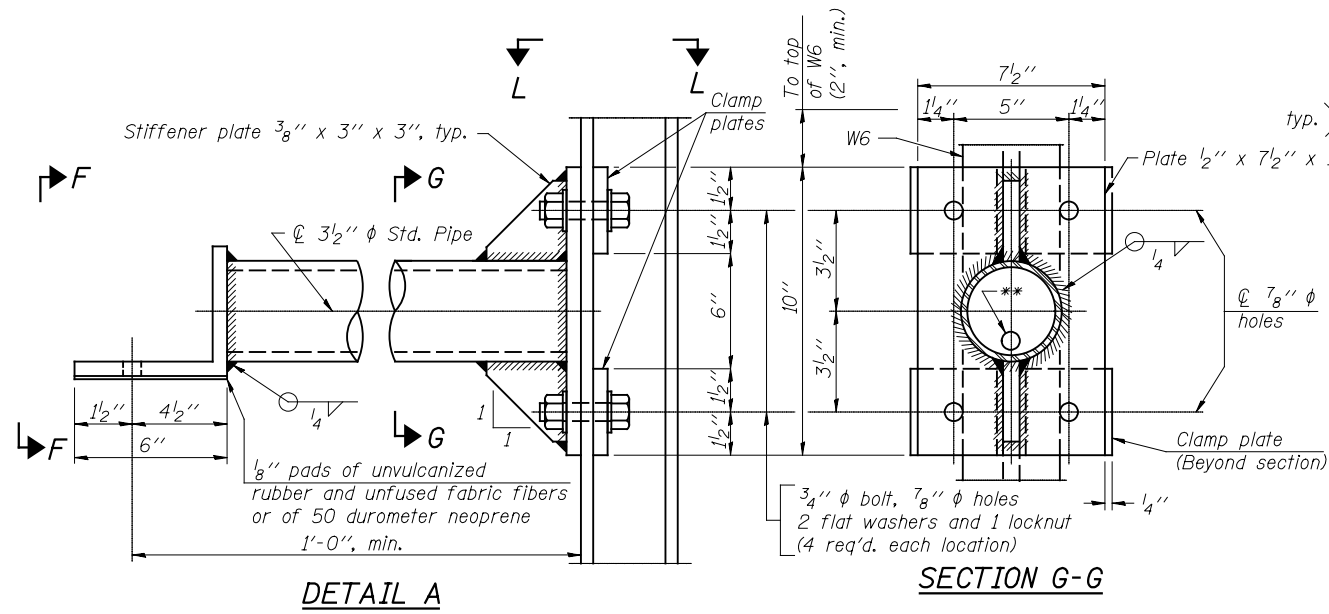
PATRICK ENGINEERING INC.
 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

USER NAME =	DESIGNED - RLD	REVISED
PLOT SCALE =	DRAWN - CPK	REVISED
PLOT DATE =	CHECKED - JAH	REVISED
	DATE - 2/18/2013	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNTED SIGN STRUCTURE
 WALKWAY AND CONNECTION DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	153
CONTRACT NO. 60J14				



BM-3

6-1-12

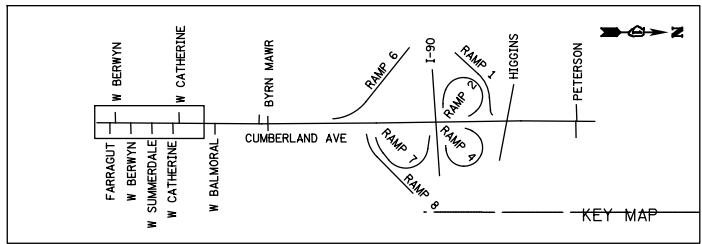
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	PATRICK ENGINEERING	DATE - 2/18/2013	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNTED SIGN STRUCTURE
CONNECTION DETAILS

SCALE: SHEET NO. SGN-10 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	154
CONTRACT NO. 60J14			ILLINOIS FED. AID PROJECT	

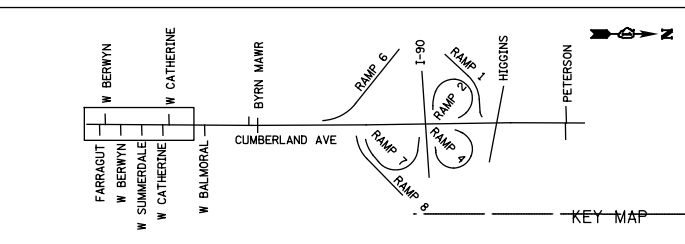
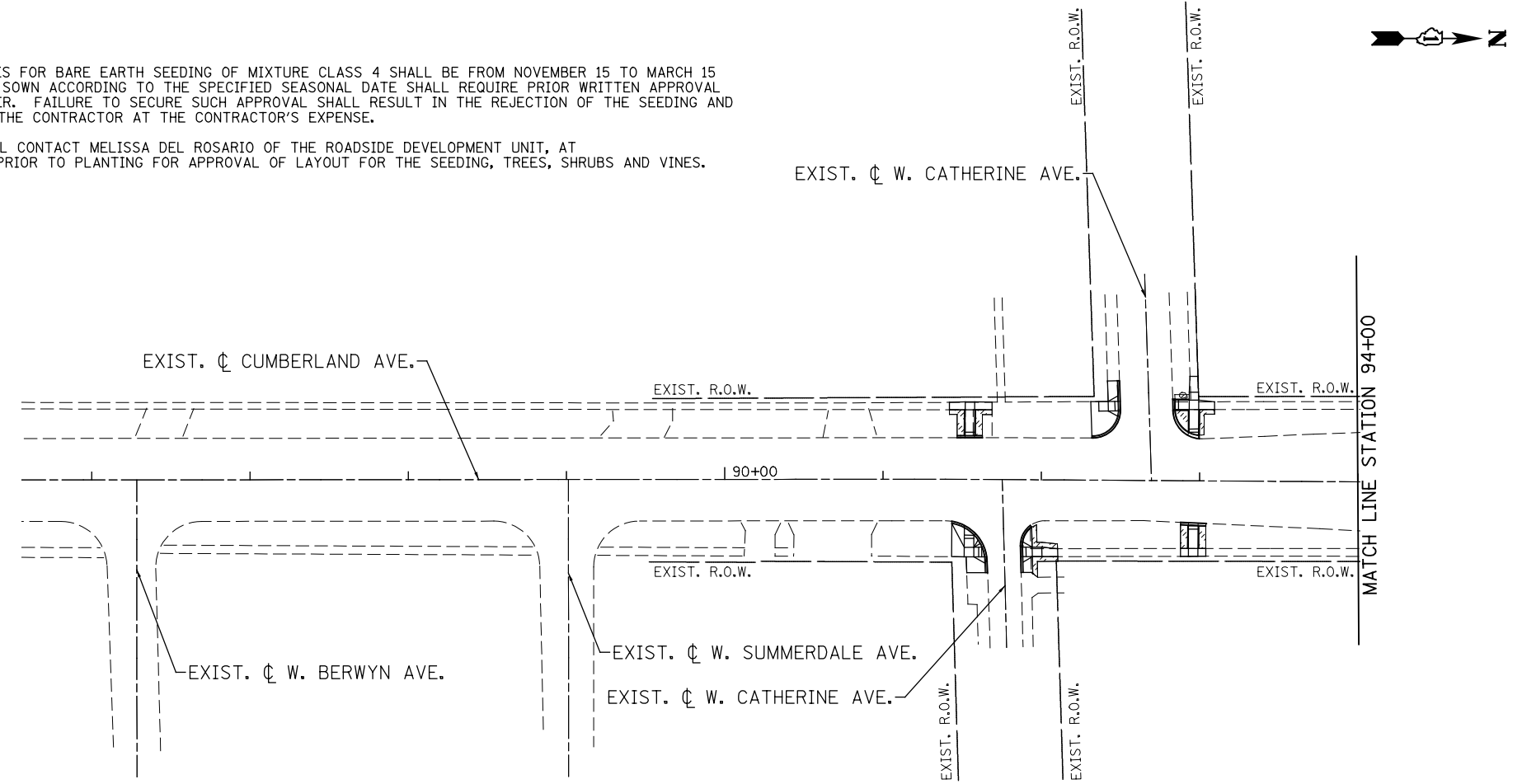


NOTES

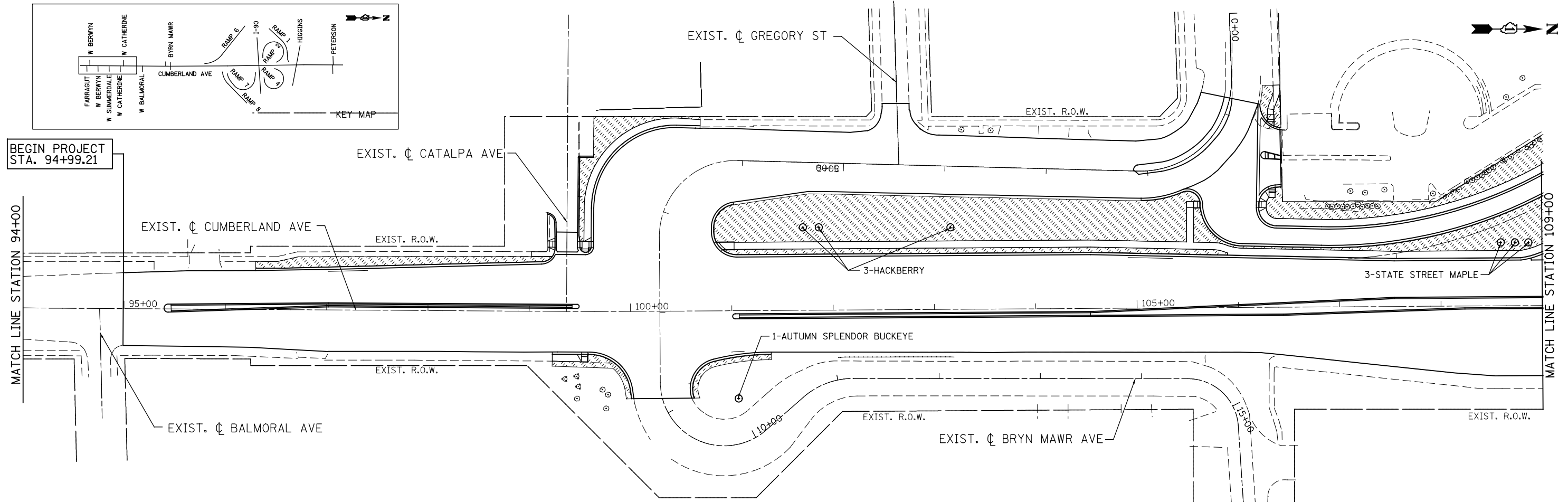
1. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 4 SHALL BE FROM NOVEMBER 15 TO MARCH 15 ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. THE ENGINEER WILL CONTACT MELISSA DEL ROSARIO OF THE ROADSIDE DEVELOPMENT UNIT, AT LEAST 72 HOURS PRIOR TO PLANTING FOR APPROVAL OF LAYOUT FOR THE SEEDING, TREES, SHRUBS AND VINES.

LEGEND:

- TOPSOIL FURNISH AND PLACE, 4"
- SODDING, SALT TOLERANT
- NITROGEN AND POTASSIUM FERTILIZER NUTRIENT



BEGIN PROJECT STA. 94+99.21



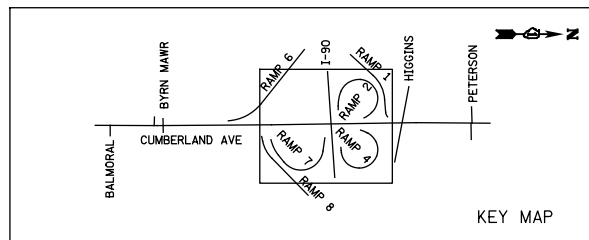
PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen(Rdwy_Lisle)	DESIGNED - CPK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN CUMBERLAND AVENUE			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SCALE: 1"=50' SHEET LCPE-1 OF 5 STA. 86+00 TO STA. 109+00												

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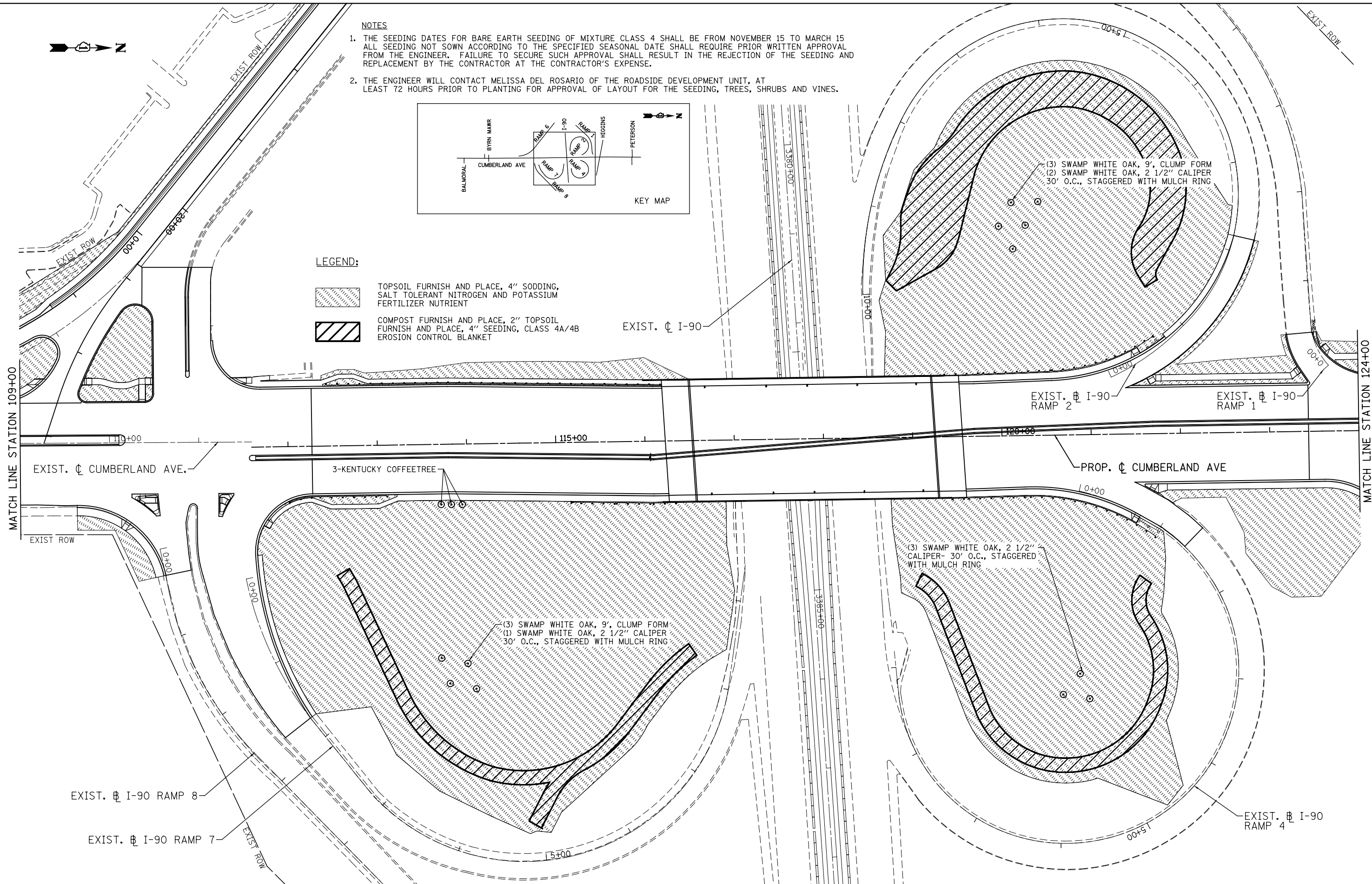
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LEGEND:

- TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT NITROGEN AND POTASSIUM FERTILIZER NUTRIENT
- COMPOST FURNISH AND PLACE, 2" TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 4A/4B EROSION CONTROL BLANKET



MATCH LINE STATION 109+00

MATCH LINE STATION 124+00

	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkceppen(Rdwy_Lisle) PLOT CONFIG = PDF(Grey_Small).plt PLOT SCALE = 1:100 PLOT DATE = 2/18/2013 5:26:12 PM	DESIGNED - CPK DRAWN - MJP CHECKED - JAH DATE - 2/18/2013	REVISED - REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
I-90 RAMPS**

SCALE: 1"=50' SHEET LCPE-2 OF 5 STA. 109+00 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	156
				60J14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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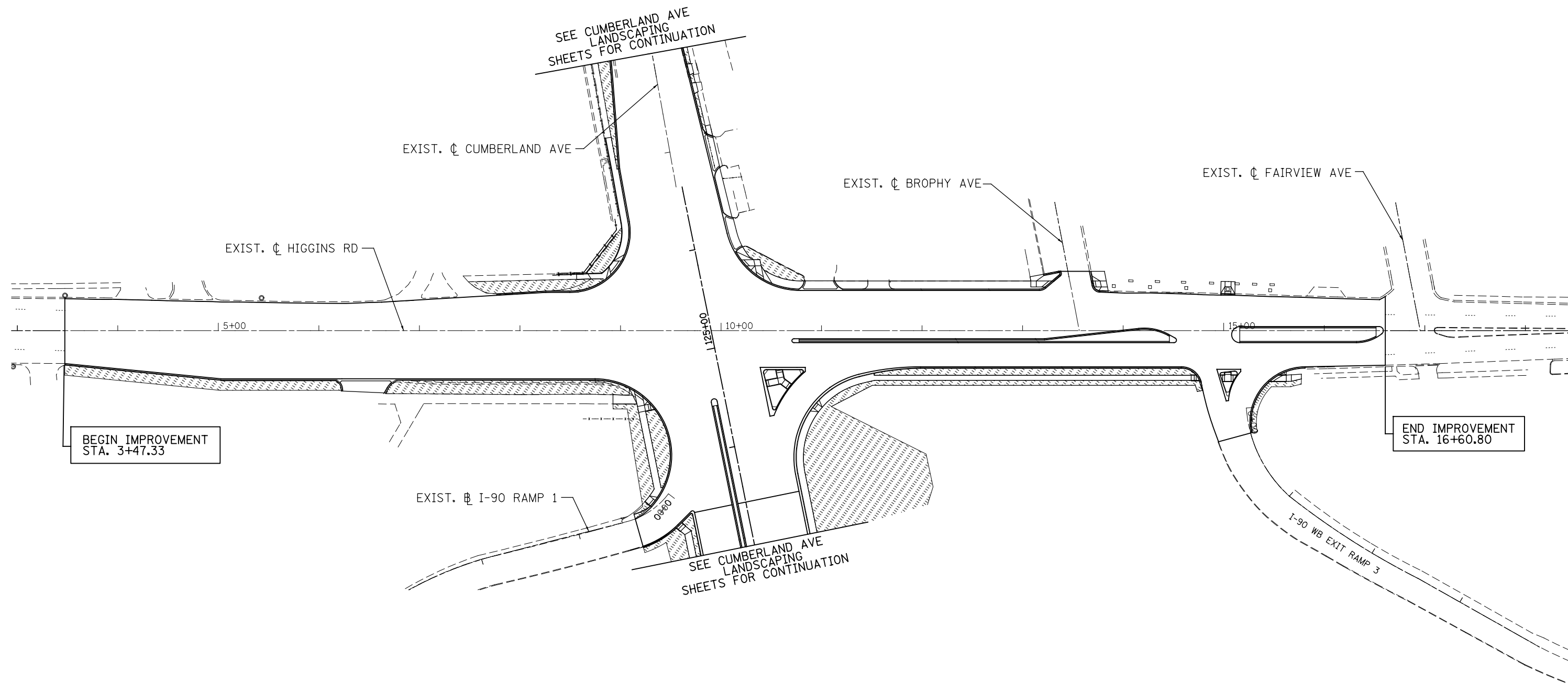
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LEGEND:

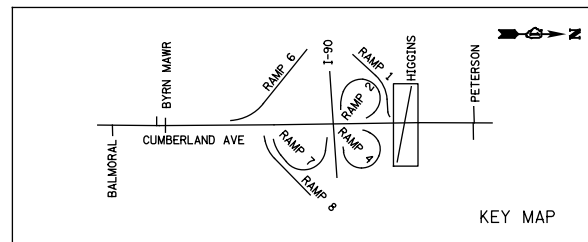


TOPSOIL FURNISH AND PLACE, 4"
SODDING, SALT TOLERANT
NITROGEN AND POTASSIUM FERTILIZER NUTRIENT



BEGIN IMPROVEMENT
STA. 3+47.33

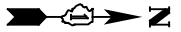
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STA. 16+60.80



KEY MAP

PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen(Rdwy_Lisle)	DESIGNED - CPK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN HIGGINS ROAD		F.A.U. RTE. 2746	SECTION 1616B	COUNTY COOK	TOTAL SHEETS 404	SHEET NO. 157
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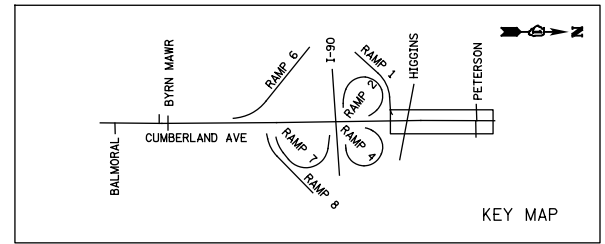
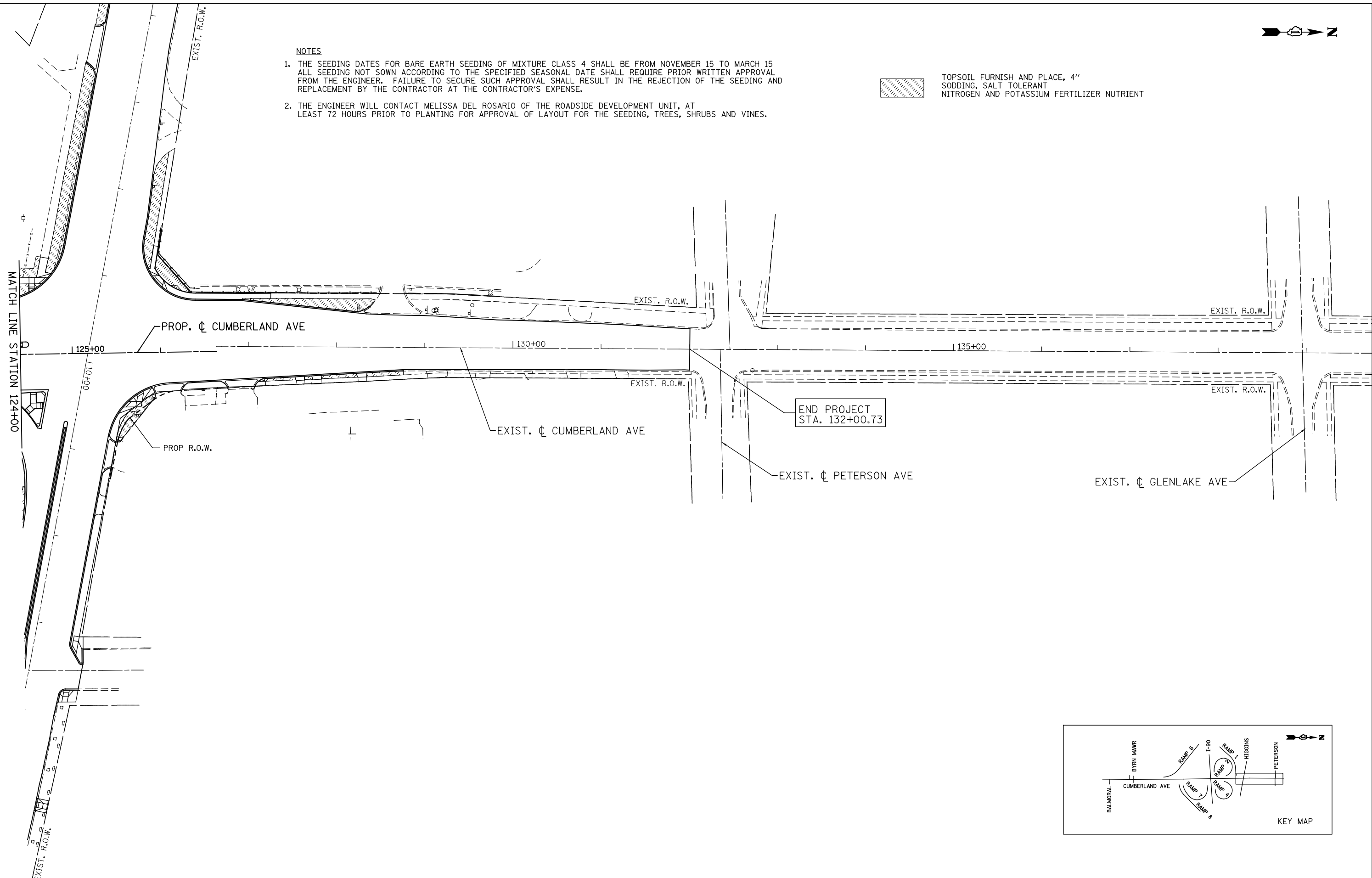


NOTES

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TOPSOIL FURNISH AND PLACE, 4"
SODDING, SALT TOLERANT
NITROGEN AND POTASSIUM FERTILIZER NUTRIENT



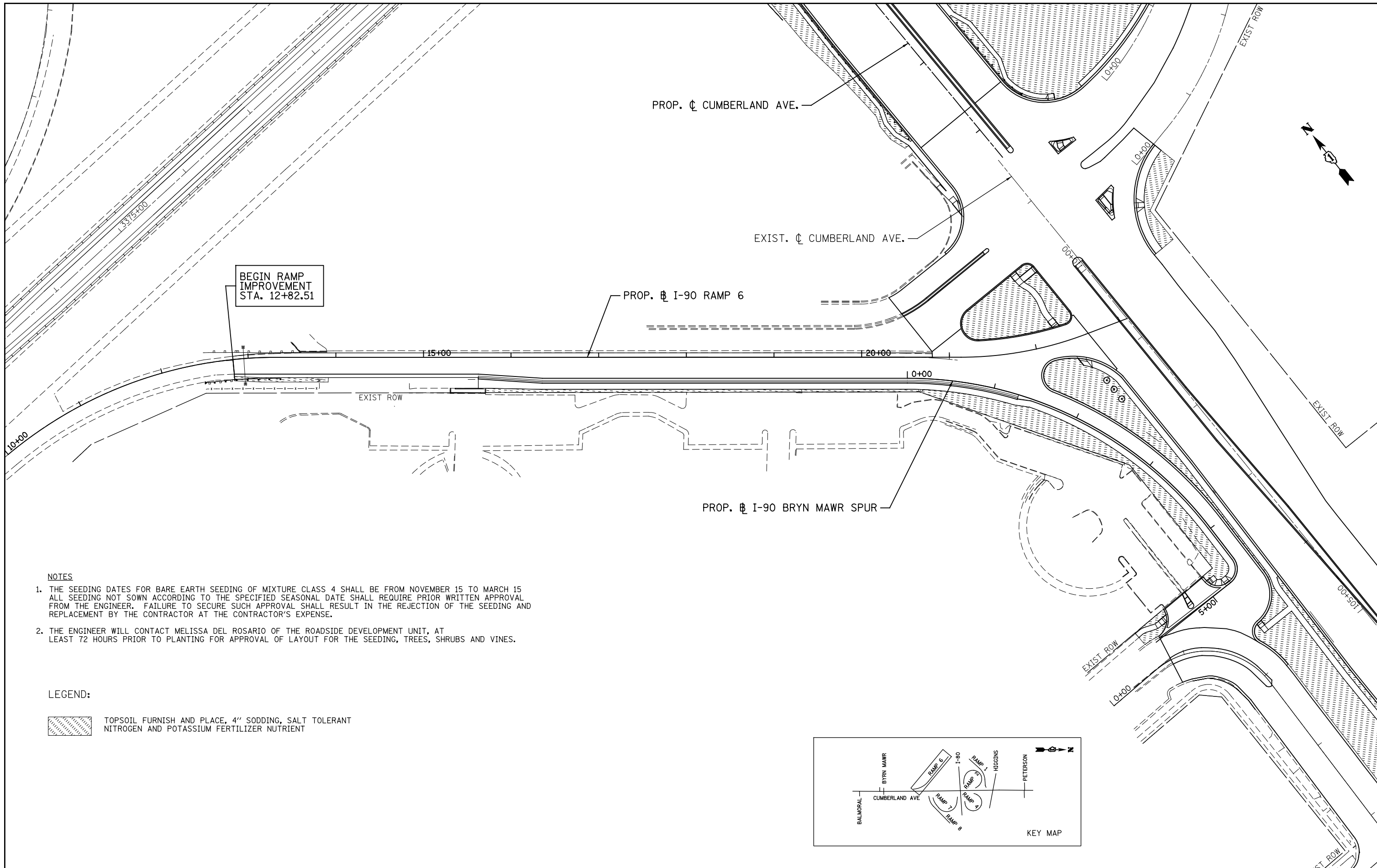
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
CUMBERLAND AVENUE**

SCALE: 1"=50' SHEET LCPE-4 OF 5 STA. 124+00 TO STA. END

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	158
				60J14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

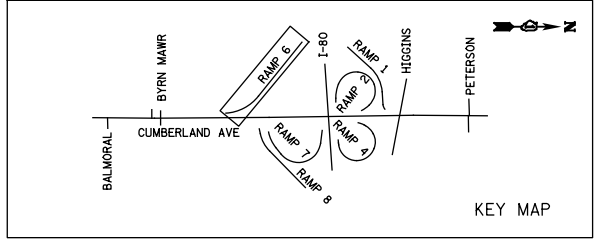


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LEGEND:

 TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT NITROGEN AND POTASSIUM FERTILIZER NUTRIENT



 PATRICK ENGINEERING 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen(Rdwy.Lisle) PLOT CONFIG = PDF(Grey_Small).plt PLOT SCALE = 1:100 PLOT DATE = 2/18/2013 5:26:59 PM	DESIGNED - CPK DRAWN - MJP CHECKED - JAH DATE - 2/18/2013	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING PLAN RAMP 6			F.A.U. RTE. 2746 SECTION 1616B COUNTY COOK TOTAL SHEETS 404 SHEET NO. 159 60J14
	SCALE: 1"=50' SHEET LCPE-5 OF 5 STA. 12+82.51 TO STA. END				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

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IDOT TRAFFIC SIGNALS SCHEDULE OF QUANTITIES

ITEM	UNIT	HIGGINS AT DEE/EAST RIVER	HIGGINS AT O'HARE PLAZA II	HIGGINS AT CUMBERLAND	HIGGINS AT I-90 WB EXIT RAMP	INTERCONNECT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT				200		200
SIDEWALK REMOVAL	SQ FT				325		325
SIGN PANEL - TYPE 1	SQ FT	28.5	10	20			58.5
SIGN PANEL - TYPE 2	SQ FT	25		60	12.5		97.5
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1					1
SERVICE INSTALLATION - POLE MOUNTED	EACH		1	1	1		3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1300	866	1081	195	1247	4689
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	55	164	18	120		357
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	59	27	106	110		302
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	445	225	1014	332		2016
HANDHOLE	EACH	5	5	7	9		26
HEAVY-DUTY HANDHOLE	EACH	5	2	4			11
DOUBLE HANDHOLE	EACH	2	1	3	1		7
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH					1	1
MASTER CONTROLLER IN TYPE V CABINET	EACH			1			1
TRANSCEIVER - FIBER OPTIC	EACH	1	1	1	1		4
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT					6594	6594
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	863		1857	681		3401
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	451		2070	881		3402
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1558	1949	3687	2125		9319
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1514	241	2882			4637
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4052	2159	7538	856		14605
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	22	238	35	34		329
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	647	780	1075	941		3443
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH				2		2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH		4	1	5		10
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4					4
STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	EACH			1			1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH		1		1		2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH			1			1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1	1				2
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1					1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1					1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1					1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH			2			2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH				1		1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH				1		1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH			1			1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH			1			1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH			1			1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH			1			1
CONCRETE FOUNDATION, TYPE A	FOOT	20	16	4	28		68
CONCRETE FOUNDATION, TYPE C	FOOT	4	4	4	4		16
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT		10	20	10		40
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48	11	46	22		127
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT			46			46
DRILL EXISTING HANDHOLE	EACH					4	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8	4	11	6		29
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH		3	2	6		11
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4					4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4	1	10			15
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH		1				1
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH		1				1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		7	3		12
PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH			1	1		2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12	5	21	6		44
INDUCTIVE LOOP DETECTOR	EACH	13	9	24	4		50
DETECTOR LOOP, TYPE I	FOOT	718	526	1111	362		2717
PEDESTRIAN PUSH-BUTTON	EACH	4		9	5		18
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	1			3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT					7708	7708
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	1			3
REMOVE EXISTING HANDHOLE	EACH	11	9	12			32
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	8	7			24
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1		1		3
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH			1			1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1	1	1		4
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT					6663	6663
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH					2	2
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1	1			3

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PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT TRAFFIC SIGNAL SCHEDULE OF QUANTITIES
CUMBERLAND AVENUE OVER I-90**

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

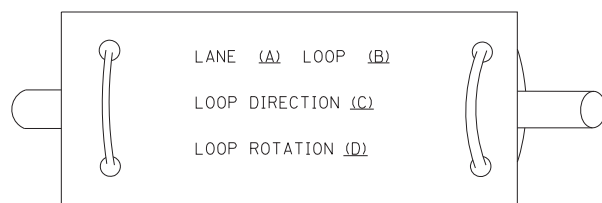
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	160
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-01

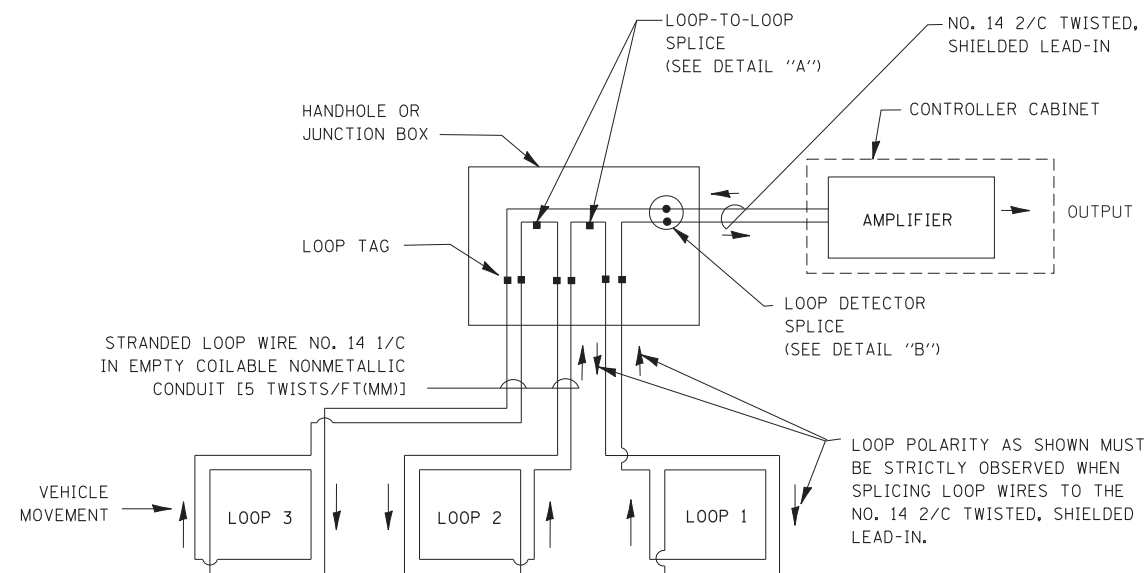
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

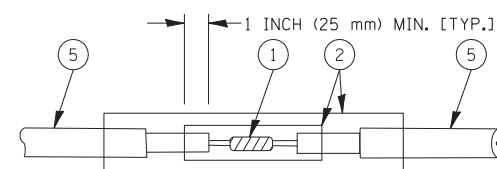


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

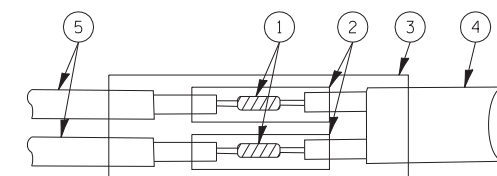


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

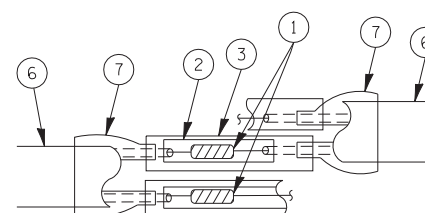


DETAIL "A" LOOP-TO-LOOP SPLICE

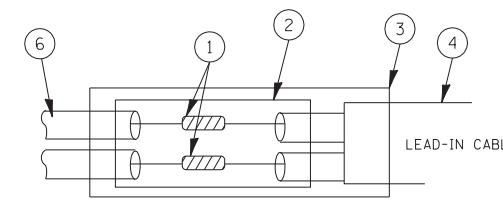


DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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PLOT SCALE = 20.0000' / IN.		CHECKED - DAD	REVISED -
PLOT DATE = 10/6/2009		DATE - 10/28/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

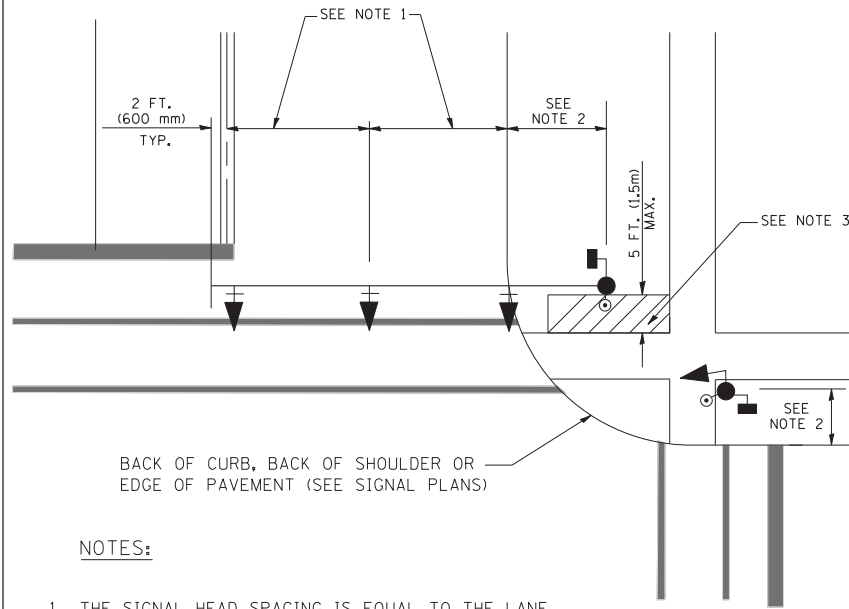
SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	161
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

TS-02

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

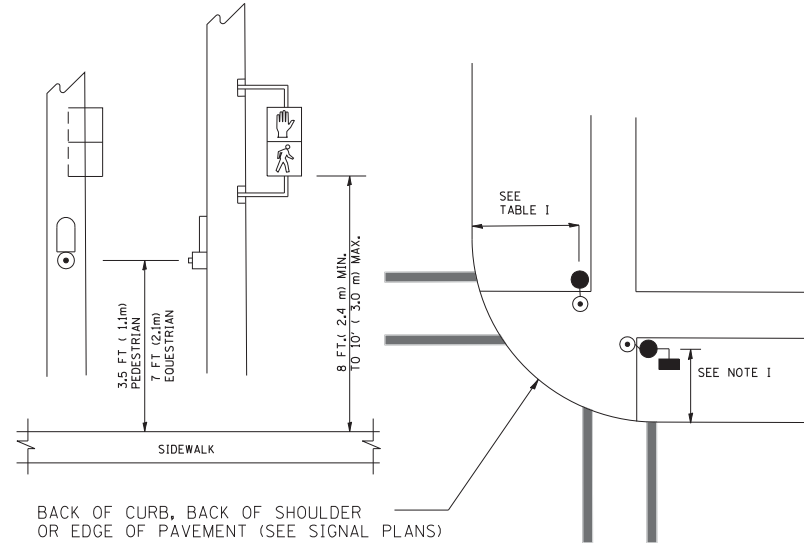
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

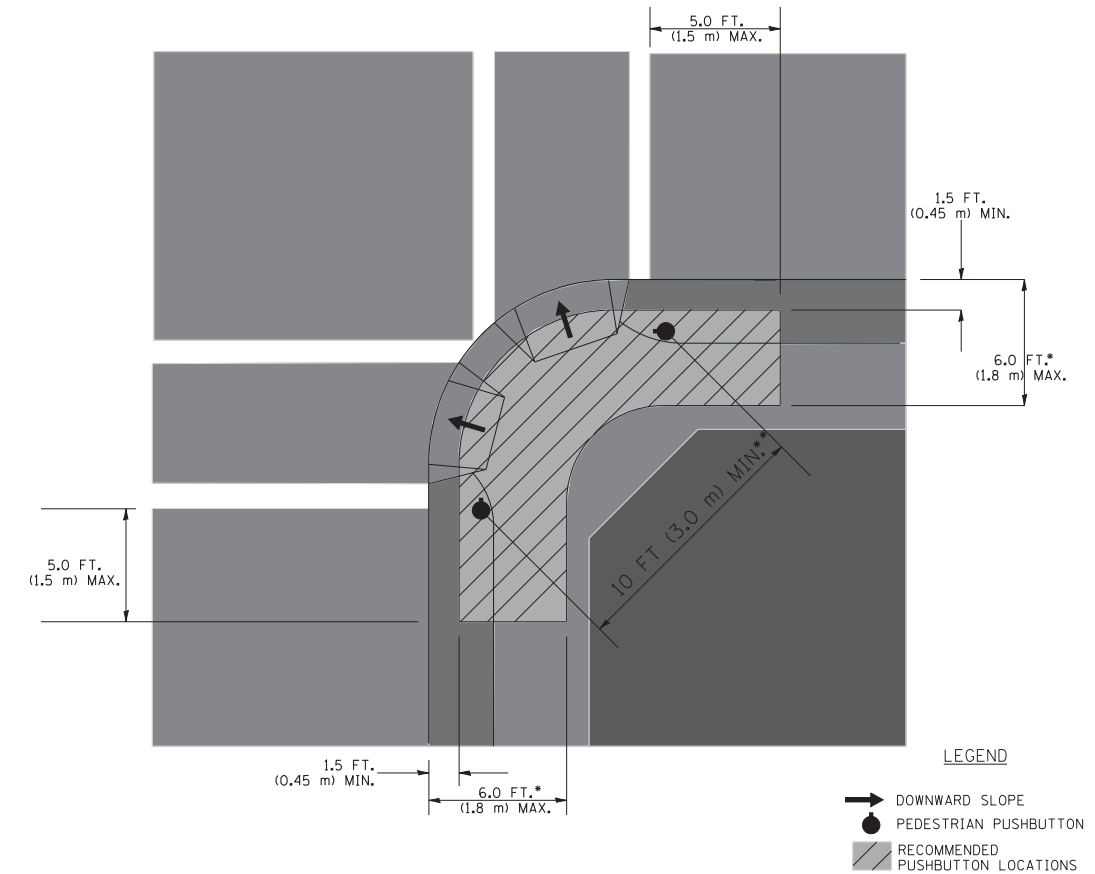
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

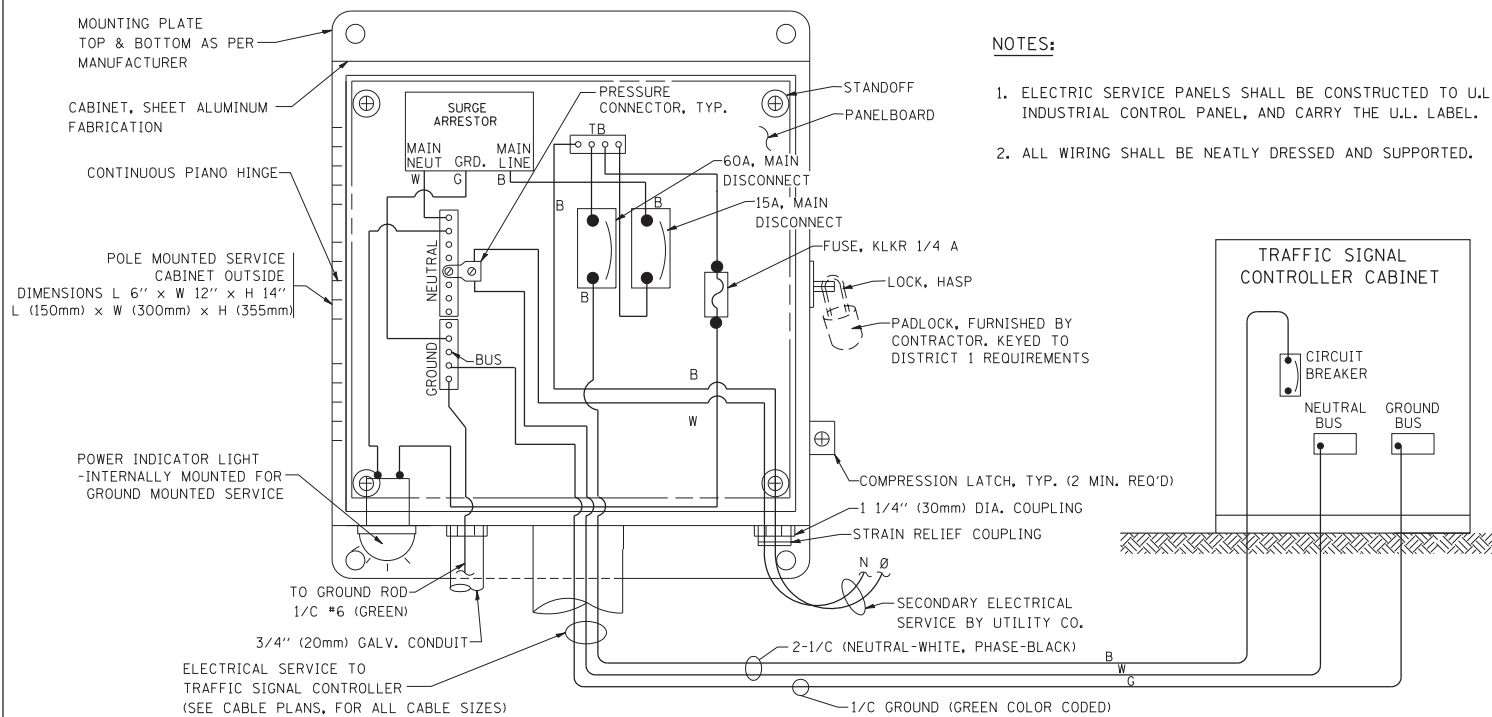
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

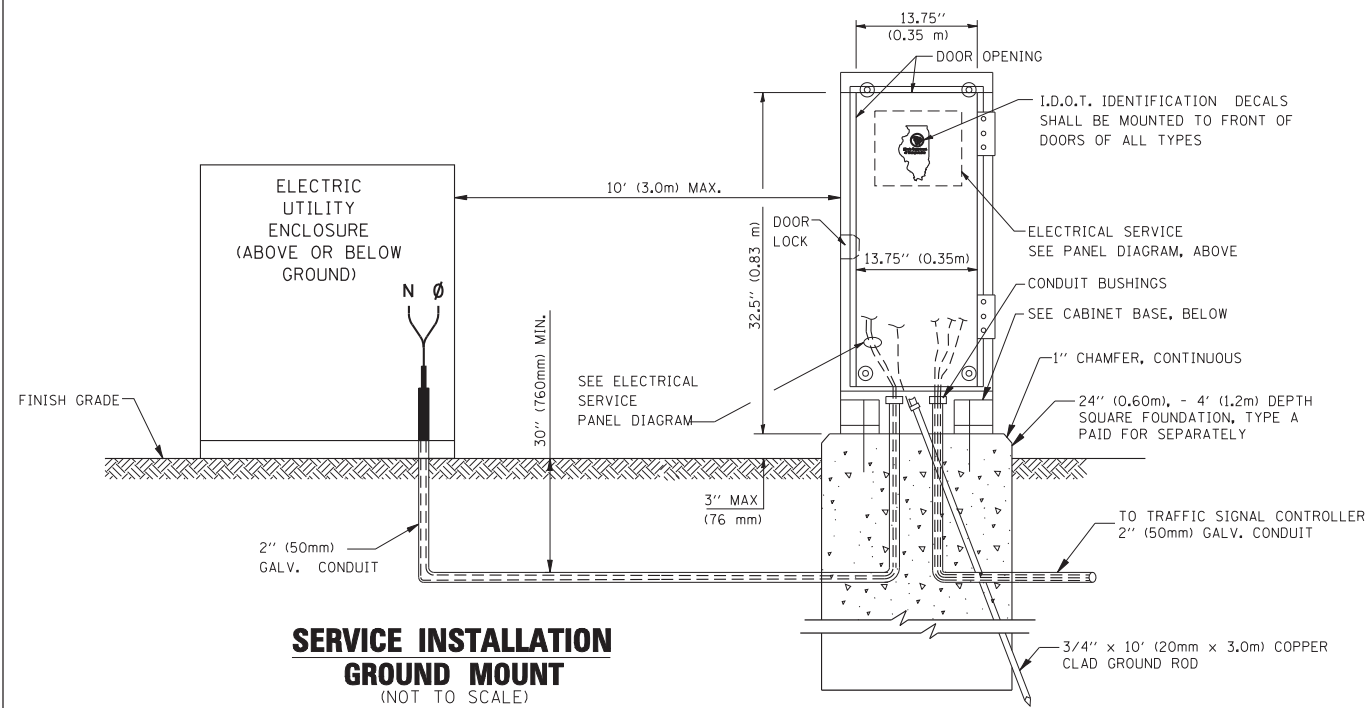
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

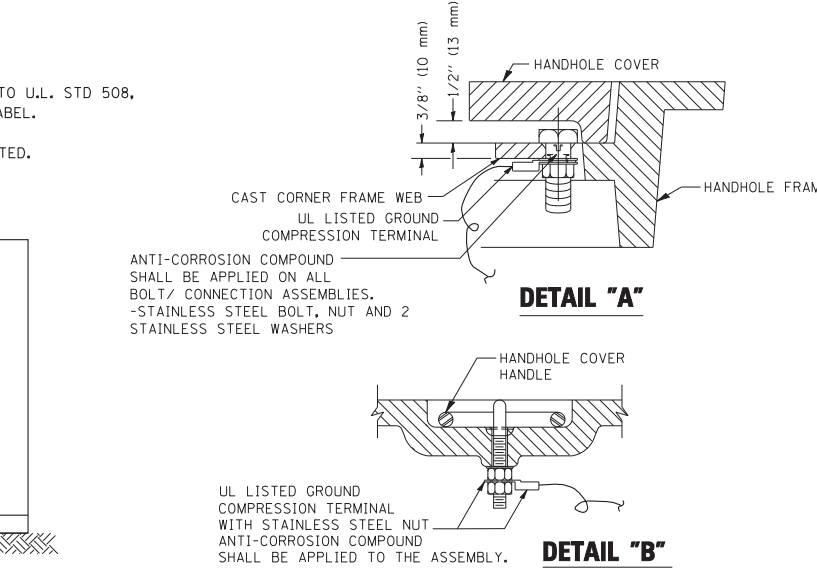
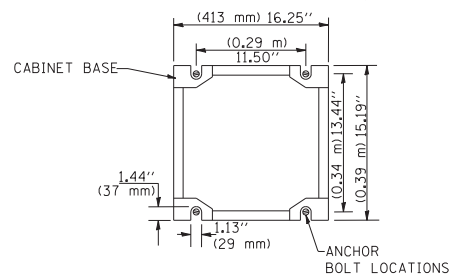


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**

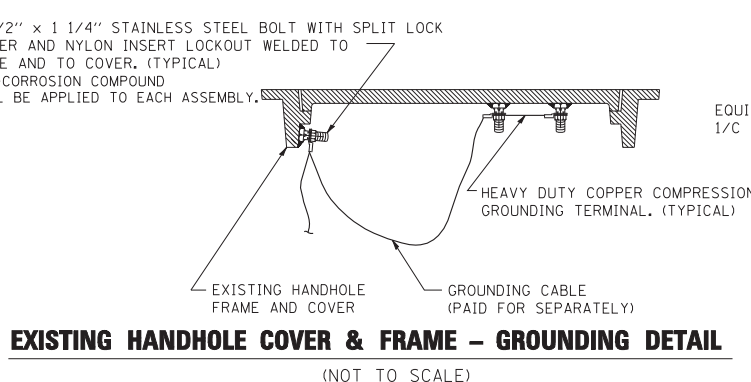


**SERVICE INSTALLATION
GROUND MOUNT
(NOT TO SCALE)**

**CABINET – BASE BOLT PATTERN
(NOT TO SCALE)**



**HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)**

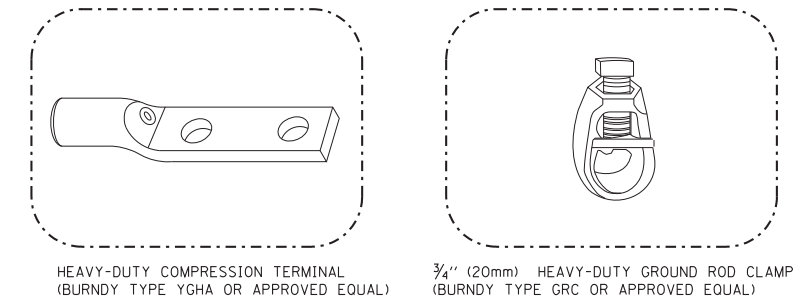


**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)**

NOTES:

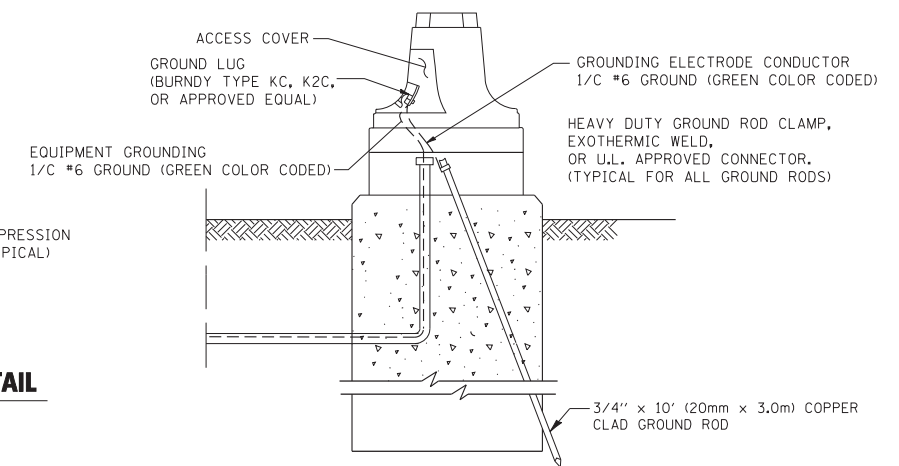
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



**MAST ARM POLE / POST-GROUNDING DETAIL
(NOT TO SCALE)**

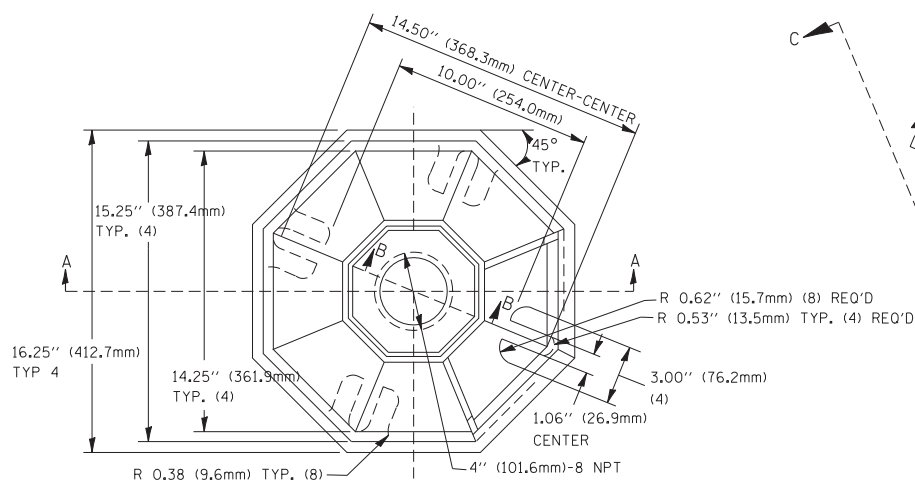
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		DATE - 10/28/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

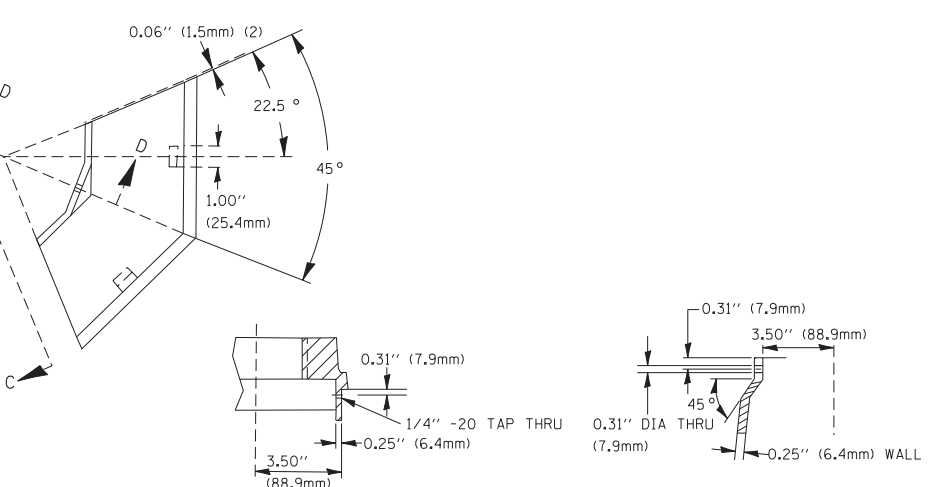
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1618B	COOK	404	163
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J14	

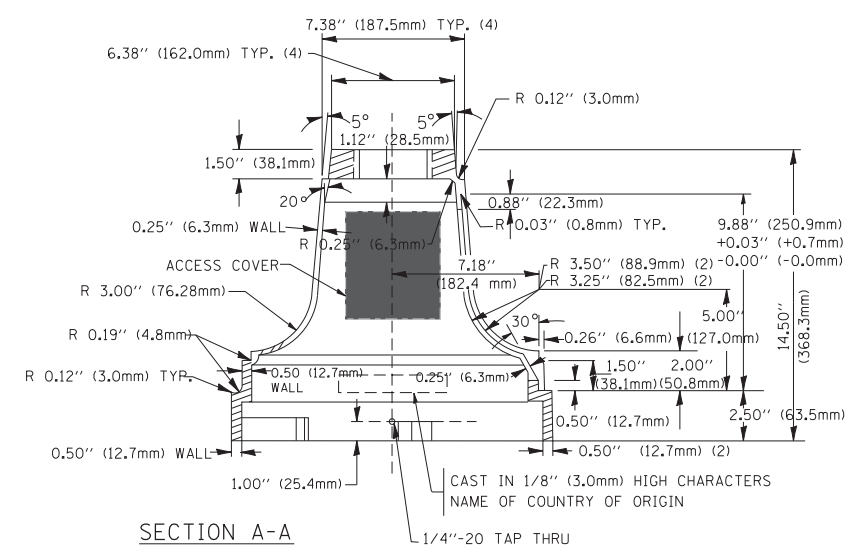


TOP VIEW

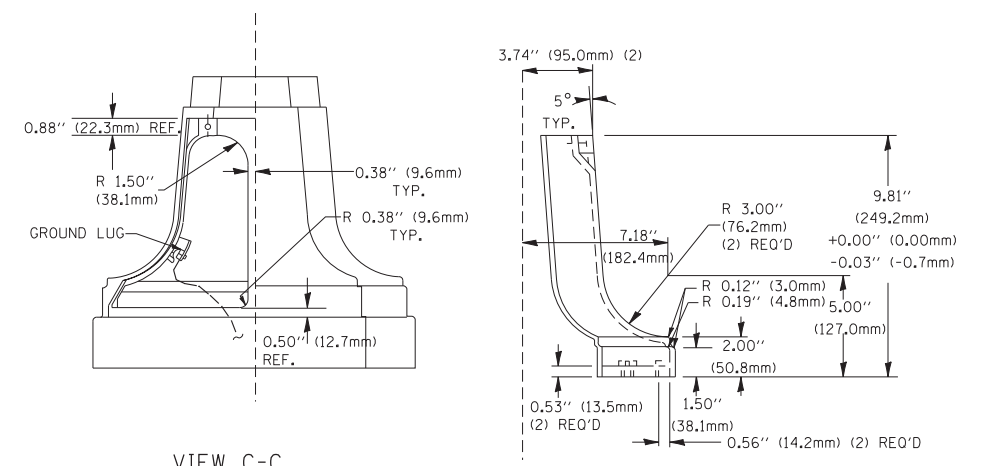


SECTION B-B

SECTION D-D

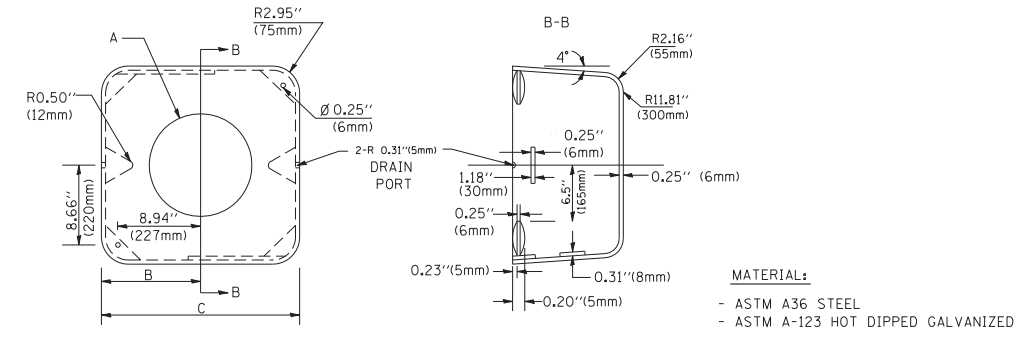


SECTION A-A



VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



SHROUD

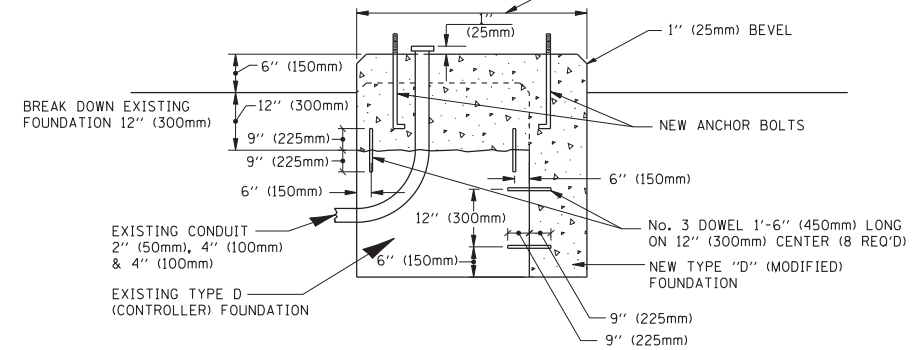
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

NOTES:

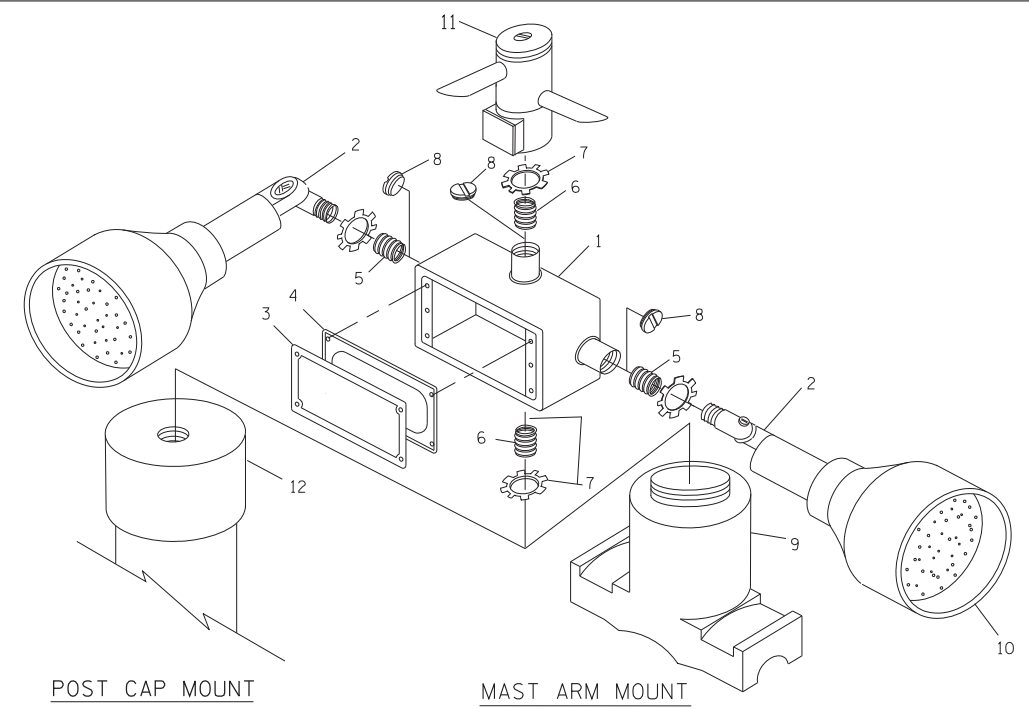
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

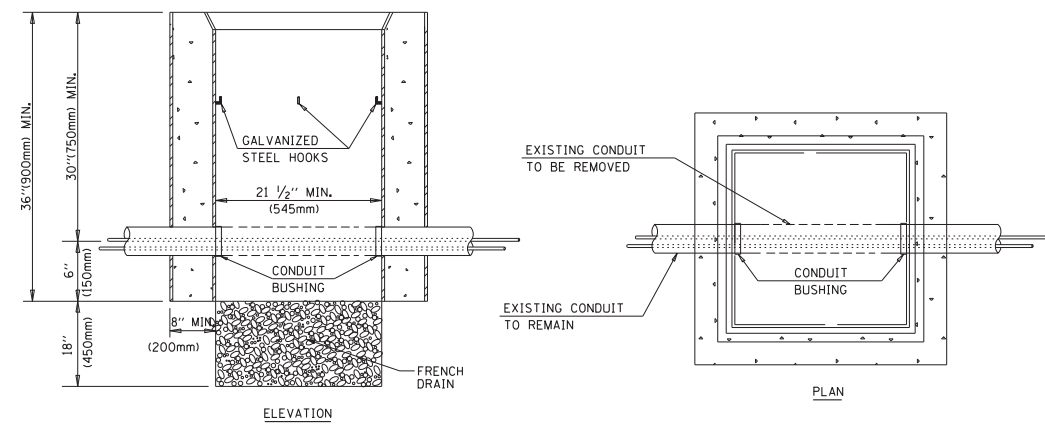
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV., 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME =	USER NAME = kanthapixaybc	DESIGNED - DAG	REVISED -
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		CHECKED - DAD	REVISED -
		DATE - 10/28/09	REVISED -

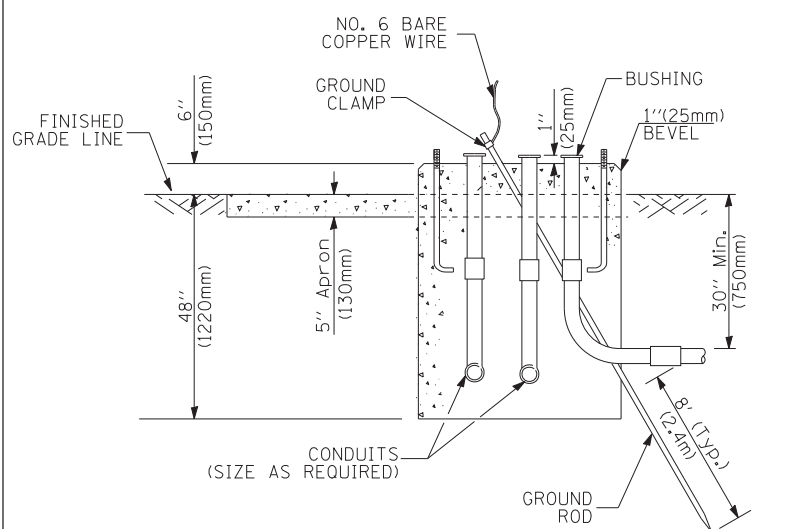
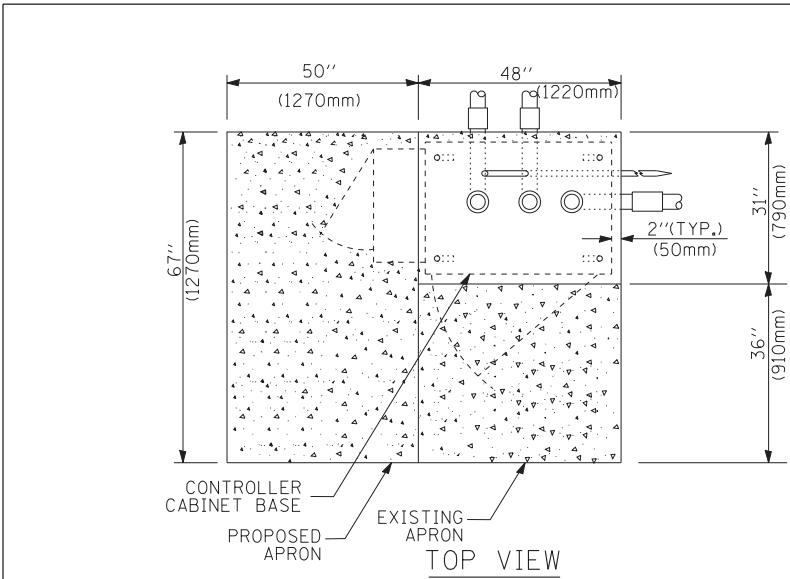
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

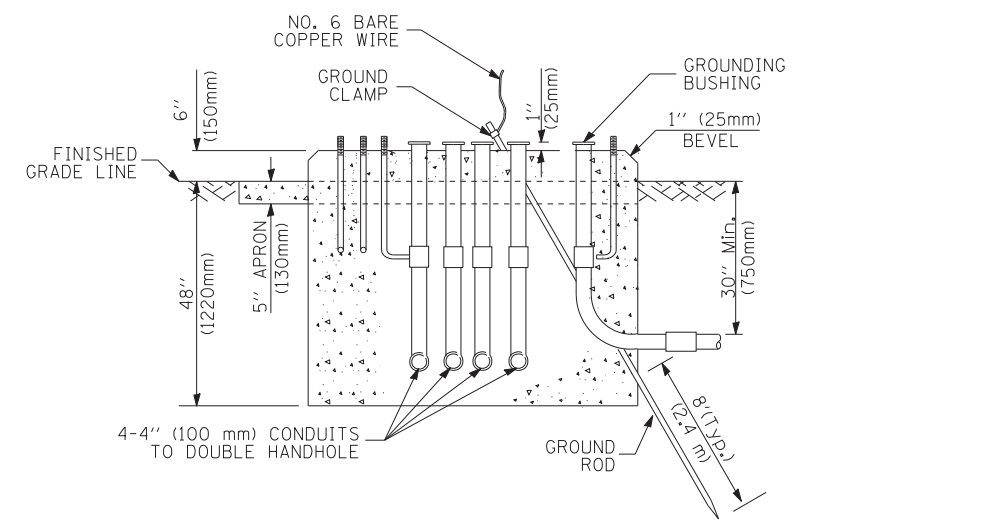
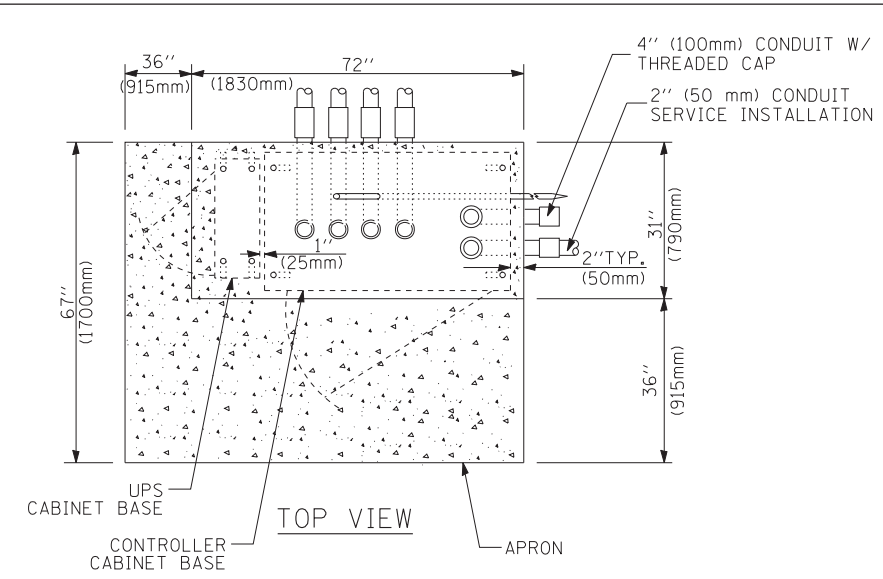
SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	164
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J14	

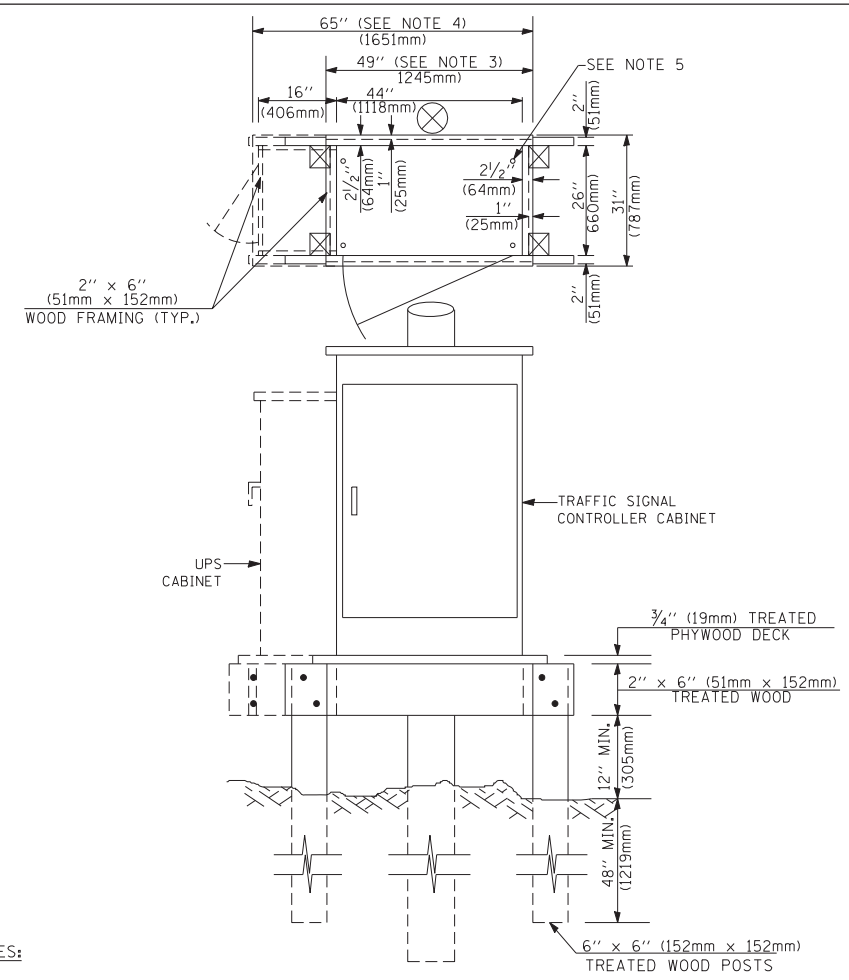
TS-05



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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PLOT DATE = 10/6/2009		DATE - 10/28/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

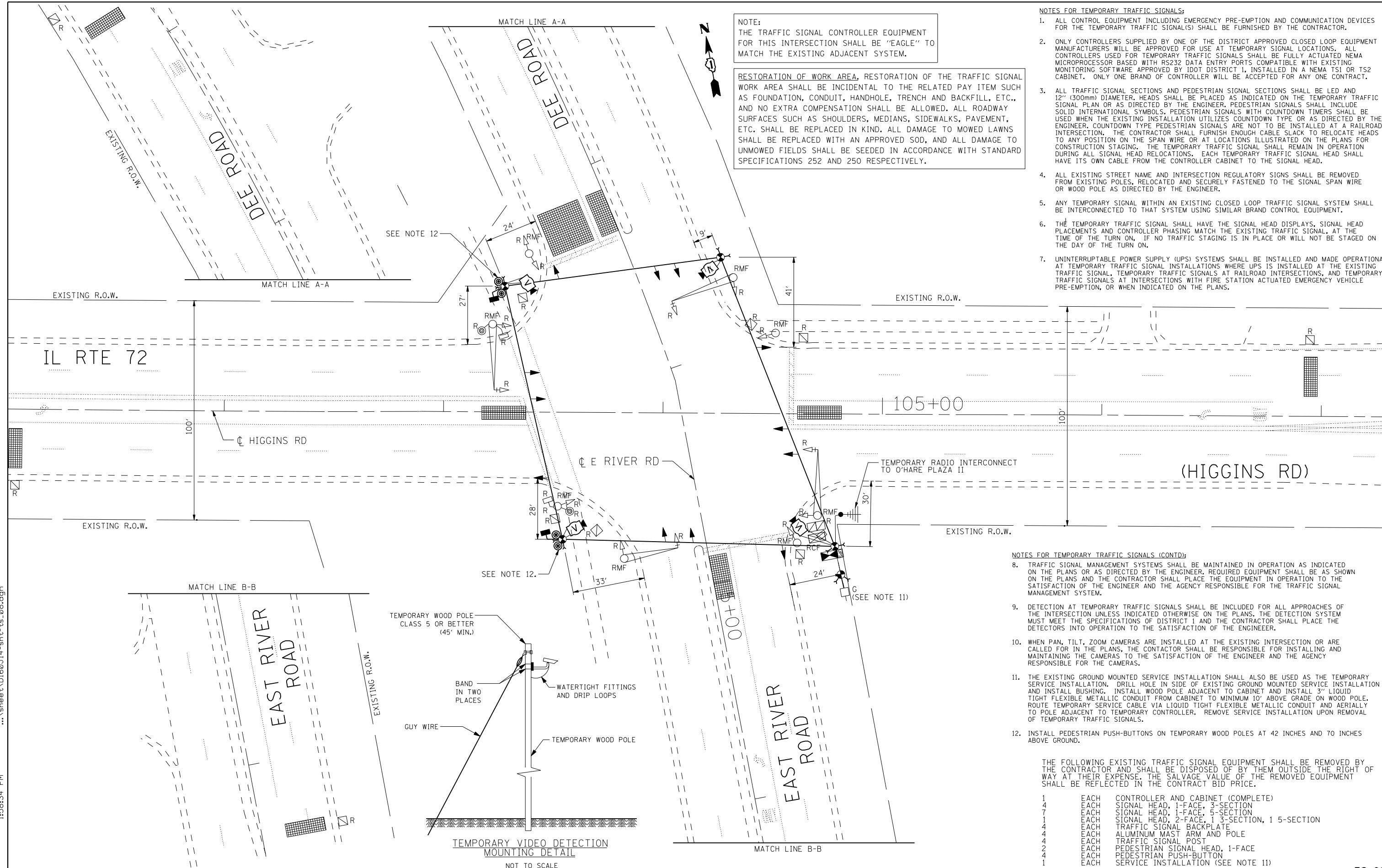
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	165
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60J14	

TS-06

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD SYMBOLS			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- NOTES FOR TEMPORARY TRAFFIC SIGNALS:
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
 7. UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

- NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTD):
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
 9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
 11. THE EXISTING GROUND MOUNTED SERVICE INSTALLATION SHALL ALSO BE USED AS THE TEMPORARY SERVICE INSTALLATION. DRILL HOLE IN SIDE OF EXISTING GROUND MOUNTED SERVICE INSTALLATION AND INSTALL BUSHING. INSTALL WOOD POLE ADJACENT TO CABINET AND INSTALL 3" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT FROM CABINET TO MINIMUM 10' ABOVE GRADE ON WOOD POLE. ROUTE TEMPORARY SERVICE CABLE VIA LIQUID TIGHT FLEXIBLE METALLIC CONDUIT AND AERIALLY TO POLE ADJACENT TO TEMPORARY CONTROLLER. REMOVE SERVICE INSTALLATION UPON REMOVAL OF TEMPORARY TRAFFIC SIGNALS.
 12. INSTALL PEDESTRIAN PUSH-BUTTONS ON TEMPORARY WOOD POLES AT 42 INCHES AND 70 INCHES ABOVE GROUND.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT OF WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
7	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1 3-SECTION, 1 5-SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	ALUMINUM MAST ARM AND POLE
4	EACH	TRAFFIC SIGNAL POST
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION (SEE NOTE 11)

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	DATE - 2/18/2013	REVISED -



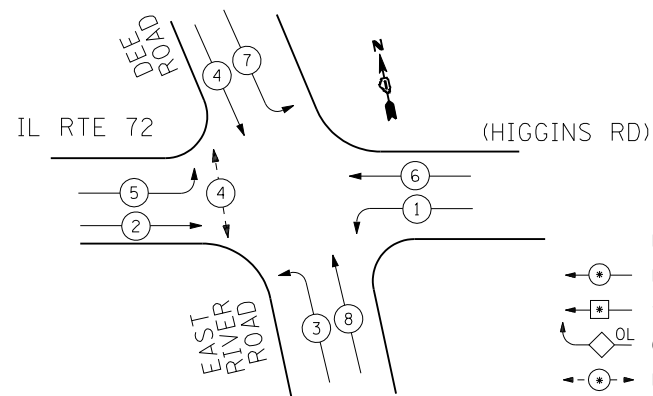
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (ALL STAGES)
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
IL RTE 72 (HIGGINS ROAD) AT EAST RIVER ROAD/DEE ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	167
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

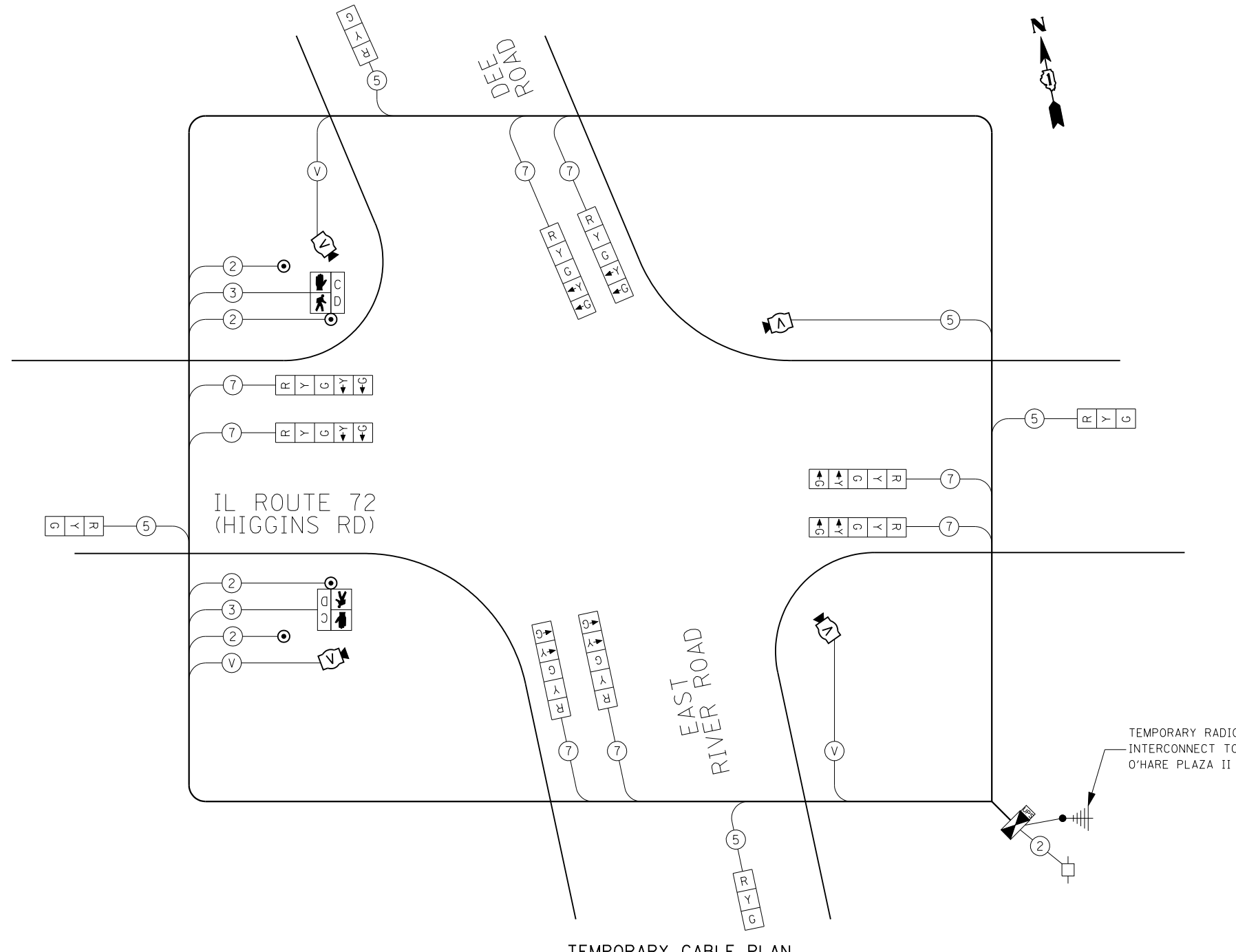
TS-08

TEMPORARY CONTROLLER SEQUENCE



- LEGEND**
- ⊙ DUAL ENTRY PHASE
 - ⊠ SINGLE ENTRY PHASE
 - ⊞ OVERLAP
 - ⊙ PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

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I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	
VIDEO SYSTEM	1	150		1.00	150
ENERGY COSTS TO: TOTAL =					541.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
 PHONE: (847) 816-5322
 COMPANY: COM ED

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

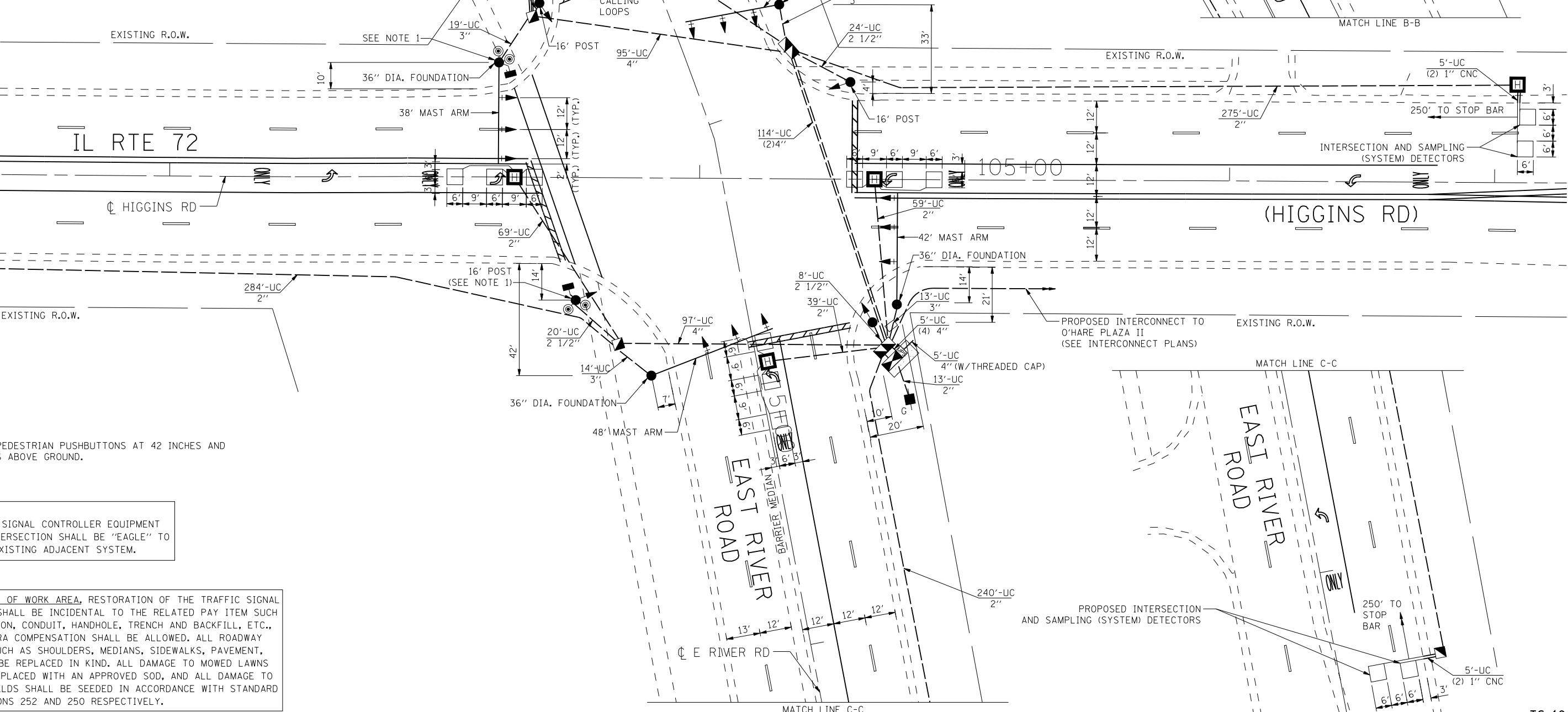
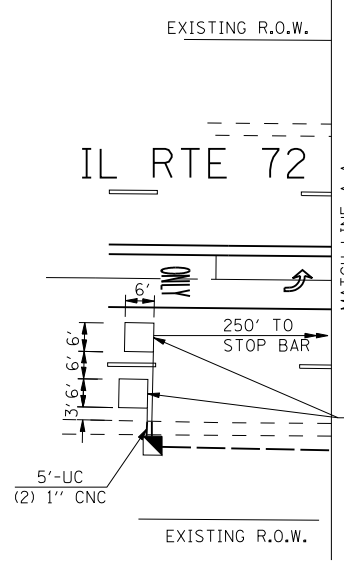
**TEMPORARY CABLE PLAN
AND TEMPORARY PHASE DESIGNATION DIAGRAM (ALL STAGES)
IL RTE 72 (HIGGINS ROAD) AT EAST RIVER ROAD/DEE ROAD**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	168
CONTRACT NO. 60J14				

TS-09

ILLINOIS FED. AID PROJECT



NOTES:
 1. INSTALL PEDESTRIAN PUSHBUTTONS AT 42 INCHES AND 70 INCHES ABOVE GROUND.

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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PLOT DATE =	CHECKED - CG	REVISED -
	DATE - 2/18/2013	REVISED -



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
 IL RTE 72 (HIGGINS ROAD) AT EAST RIVER ROAD/DEE ROAD**

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

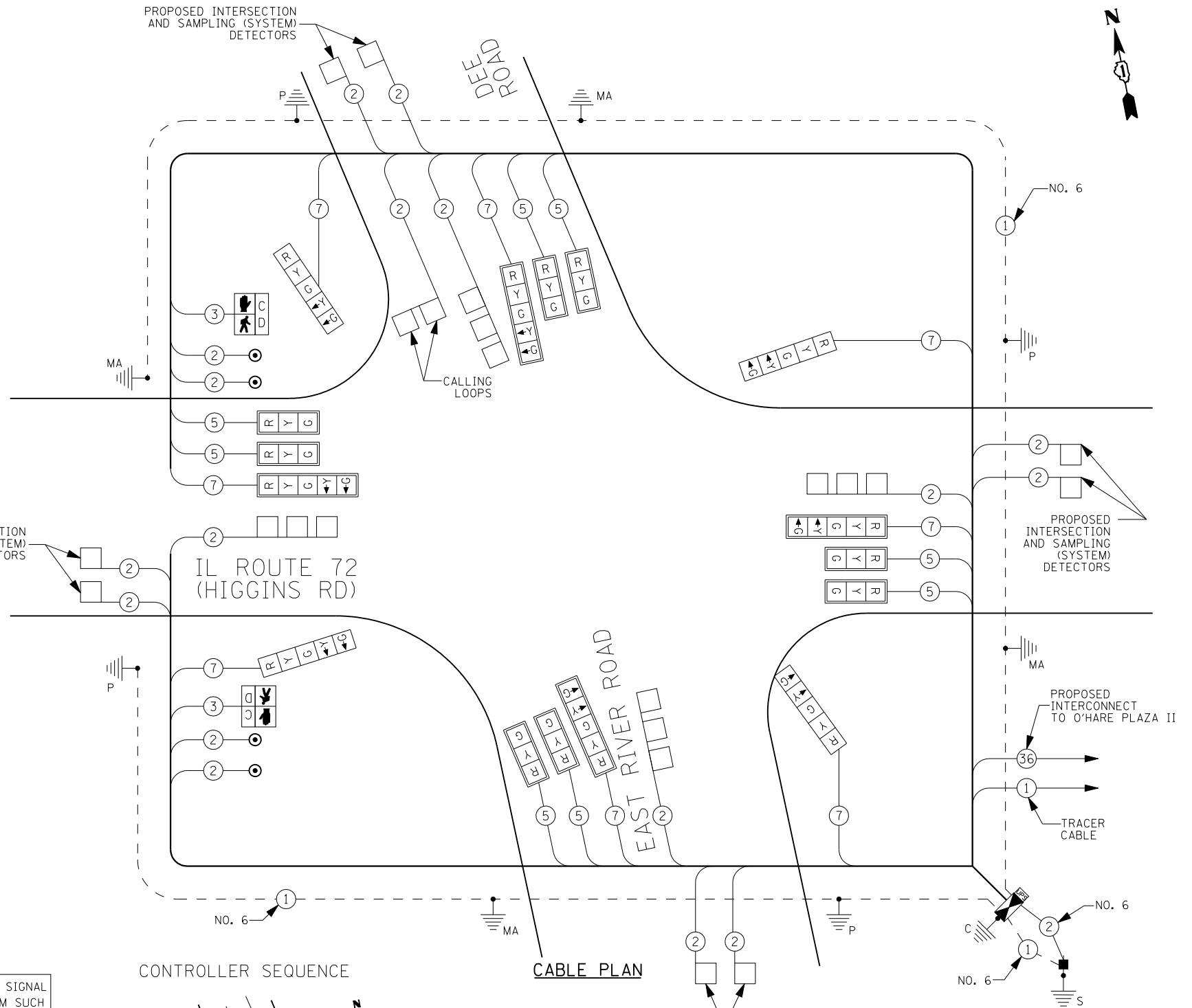
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	169
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-10

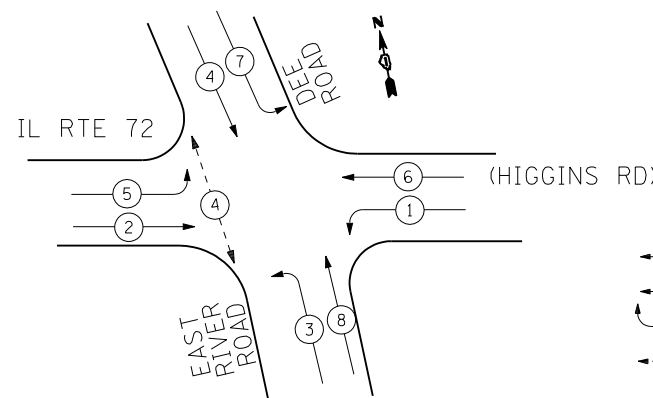
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	28.5
SIGN PANEL - TYPE 2	SQ FT	25
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1300
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	55
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	59
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	445
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	863
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	451
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1558
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1514
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4052
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	22
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	647
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	13
DETECTOR LOOP, TYPE I	FOOT	718
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

CABLE PLAN

- LEGEND
- ◉ DUAL ENTRY PHASE
 - ◻ SINGLE ENTRY PHASE
 - ◊ OL OVERLAP
 - ◉ PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

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I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	16	135	17	0.50	136.00
(YELLOW)	16	135	25	0.25	100.00
(GREEN)	16	135	15	0.25	60.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	2	90	25	1.00	50.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN			25	0.50	

ENERGY COSTS TO: TOTAL = 465.20

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
PHONE: (847) 816-5322
COMPANY: COM ED

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

USER NAME	DESIGNED	GR	REVISED
	DRAWN	GR	REVISED
	CHECKED	CG	REVISED
	DATE	2/18/2013	REVISED



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN,
AND PHASE DESIGNATION DIAGRAM
IL RTE 72 (HIGGINS ROAD) AT EAST RIVER ROAD/DEE ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	170

CONTRACT NO. 60J14

ILLINOIS FED. AID PROJECT

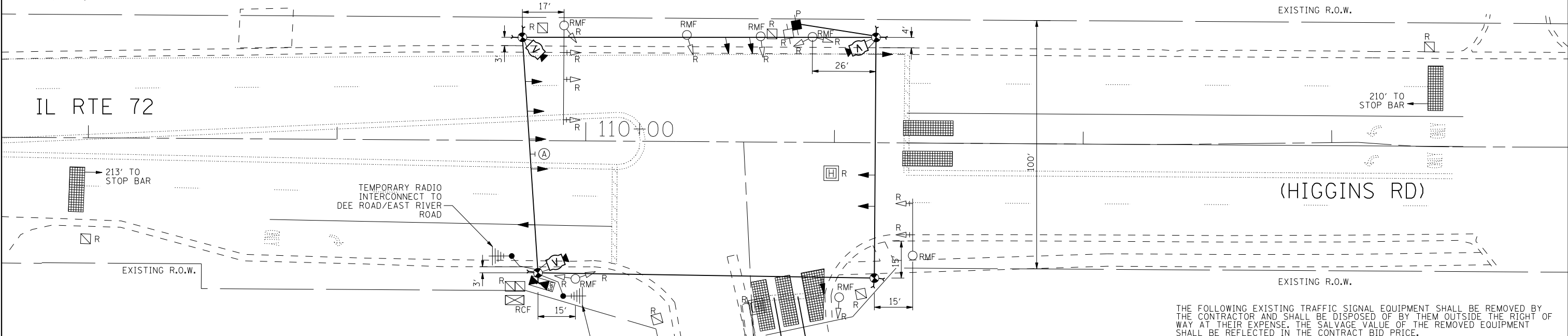
TS-11

NOTES FOR TEMPORARY TRAFFIC SIGNALS:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

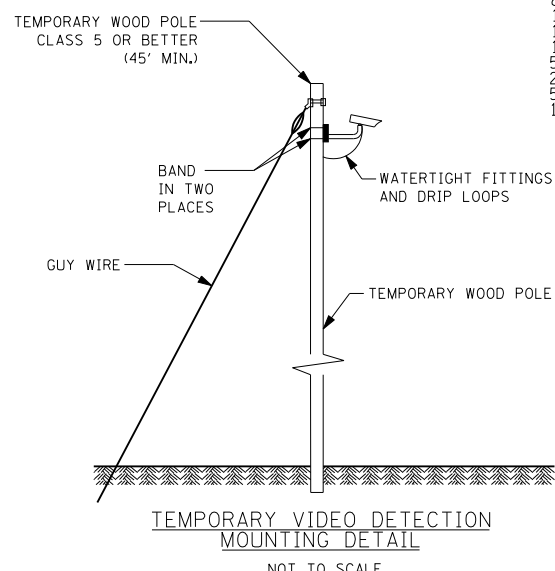
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT OF WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 1 3-SECTION, 1 5-SECTION
1	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	STEEL MAST ARM AND POLE
1	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

LEFT ON GREEN ARROW ONLY

SIGN (A)
R10-5
24" X 30"
(1 REQUIRED)
(INCLUDED IN COST OF TEMPORARY TRAFFIC SIGNAL)

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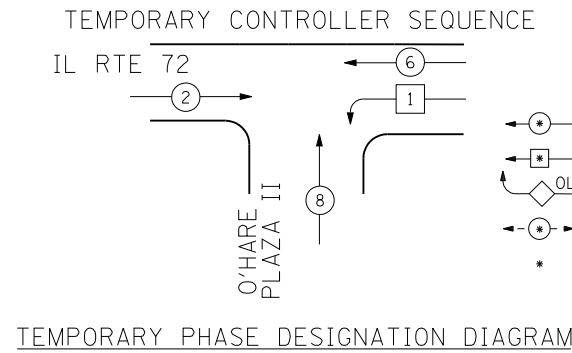
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (ALL STAGES)
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 72 (HIGGINS ROAD) AT O'HARE PLAZA II

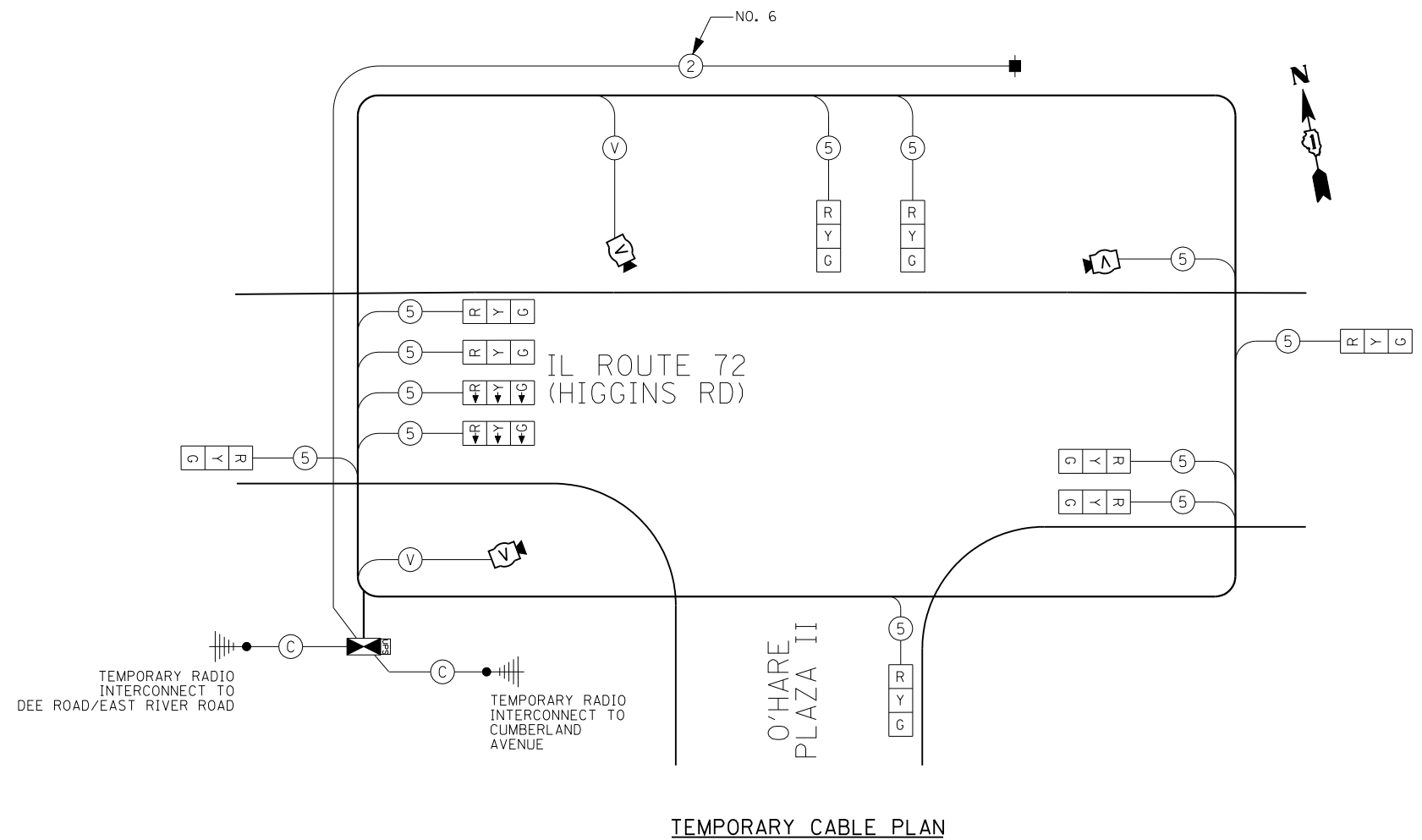
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	171
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-12

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



- LEGEND
- ⊕ DUAL ENTRY PHASE
 - ⊞ SINGLE ENTRY PHASE
 - ◊ OL OVERLAP
 - ⊖ PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE



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I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW	-	135	12	0.10	-
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	-
ILLUM. SIGN	-		25	0.50	100
VIDEO SYSTEM	1	150		1.00	150
ENERGY COSTS TO:					TOTAL = 453.5

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
PHONE: (847) 816-5322
COMPANY: COM ED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

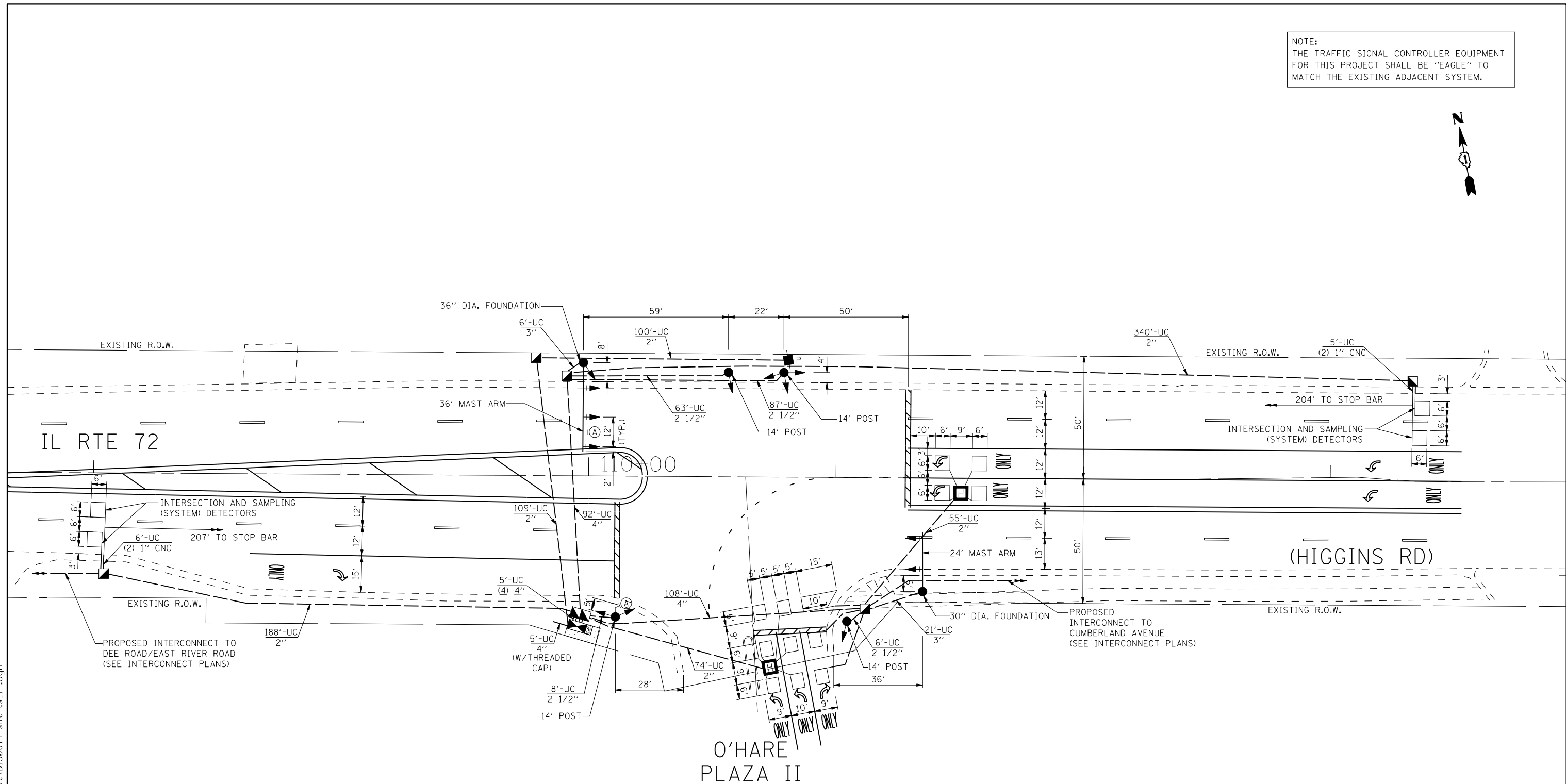
TEMPORARY CABLE PLAN (ALL STAGES)
AND TEMPORARY PHASE DESIGNATION DIAGRAM
IL RTE 72 (HIGGINS ROAD) AT O'HARE PLAZA II

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	172
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-13

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

LEFT ON GREEN ARROW ONLY

SIGN (A)
R10-5
24" X 30"
(2 REQUIRED)

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PLOT DATE =	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION
IL RTE 72 (HIGGINS ROAD) AT O'HARE PLAZA II

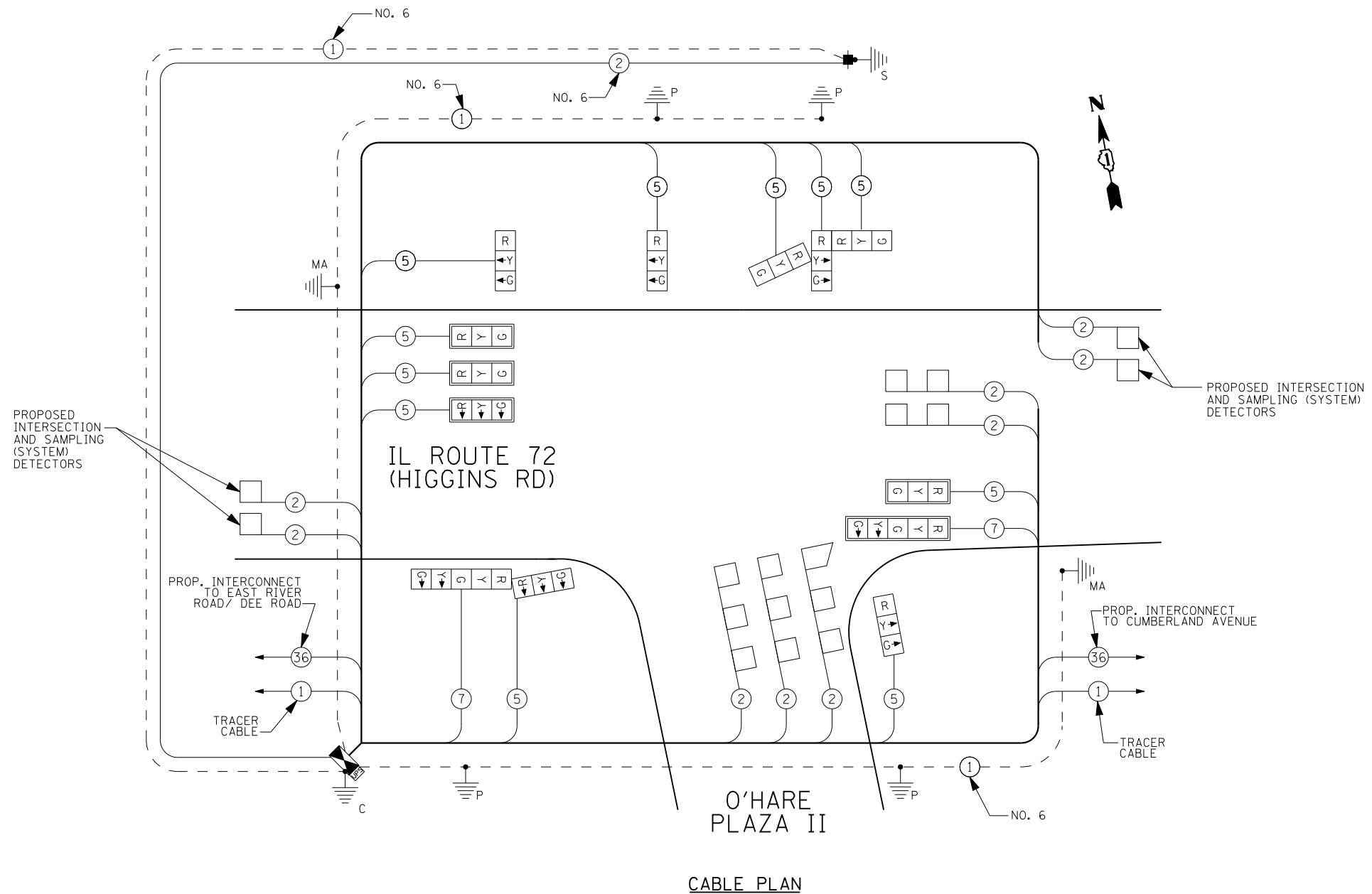
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	173
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

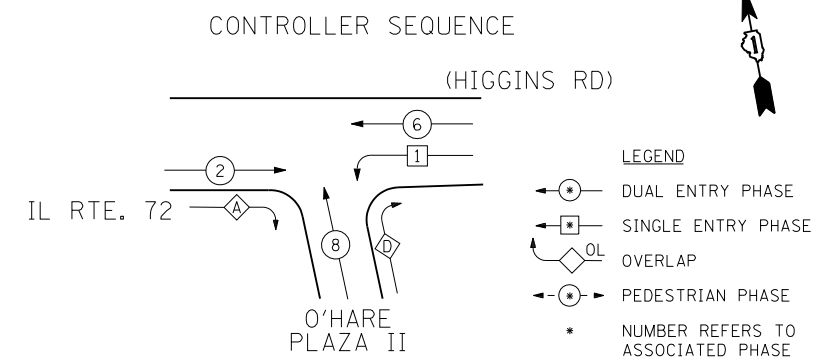
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SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	10
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	866
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	164
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	27
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	225
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1949
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	241
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2159
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	238
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	780
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	526
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



CABLE PLAN



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
D	= 8	+ 1

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	13	135	17	0.50	110.50
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	13	135	15	0.25	48.75
ARROW	4	135	12	0.10	4.80
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	

ENERGY COSTS TO: TOTAL = 345.30
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196
ENERGY SUPPLY: CONTACT: MARY INFANTI
PHONE: (847) 816-5322
COMPANY: COM ED

USER NAME =	DESIGNED - GR	REVISED -
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PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN,
AND PHASE DESIGNATION DIAGRAM
IL RTE 72 (HIGGINS ROAD) AT O'HARE PLAZA II
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	174
CONTRACT NO. 60J14				

ILLINOIS FED. AID PROJECT

TS-15

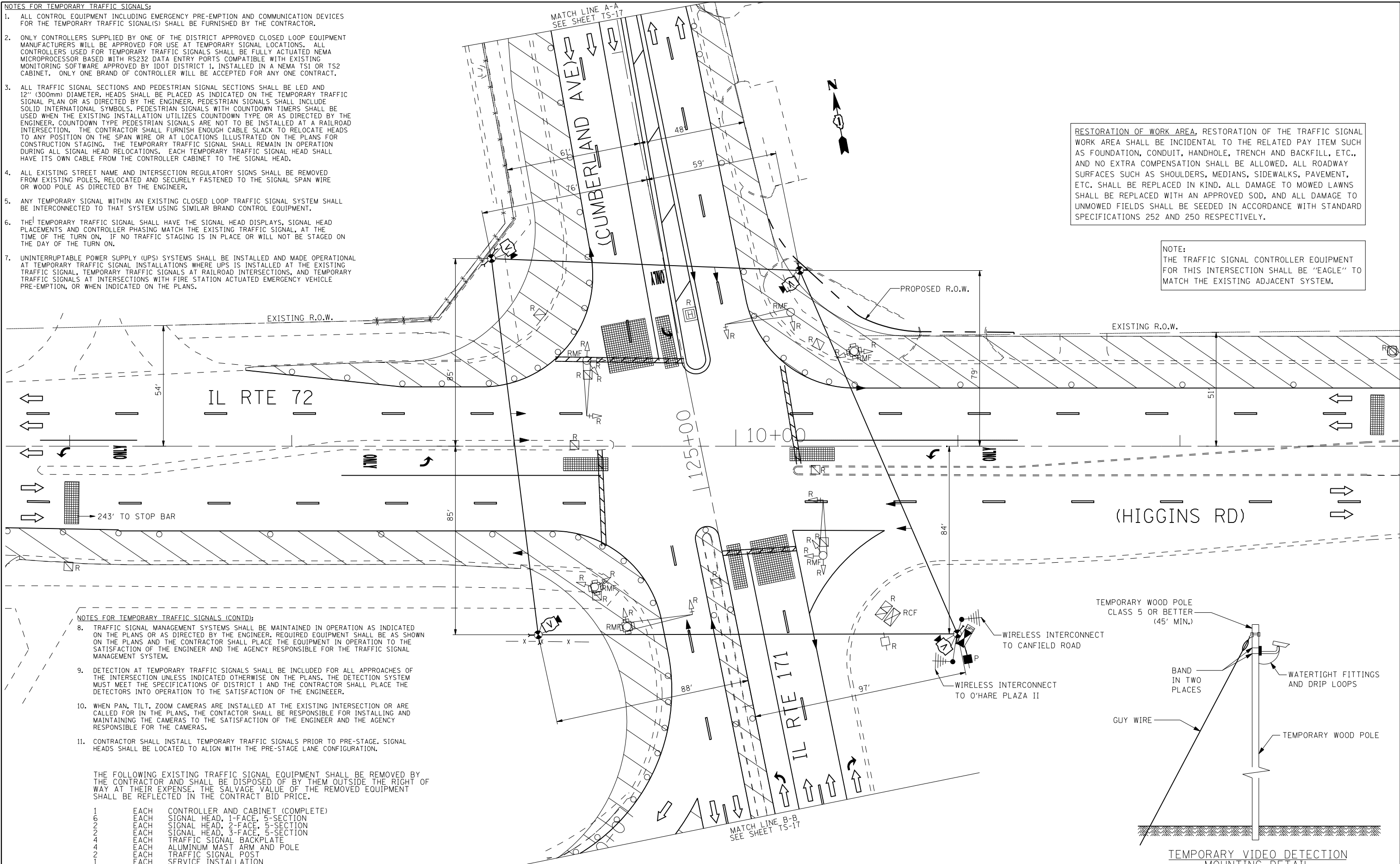
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NOTES FOR TEMPORARY TRAFFIC SIGNALS:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER, HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

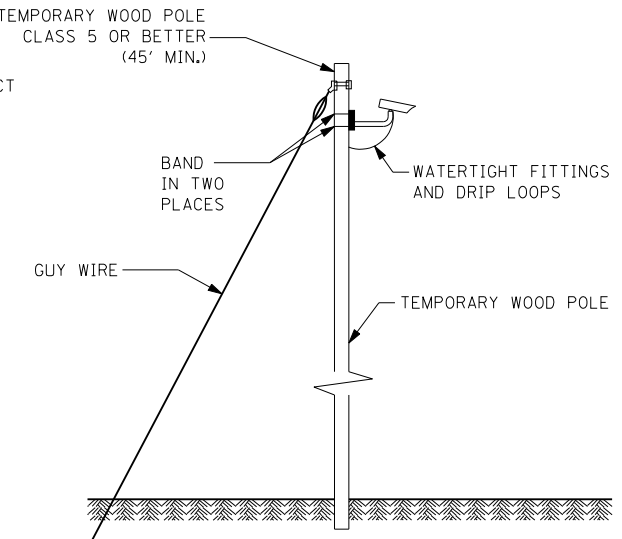


NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTD):

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.
11. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO PRE-STAGE. SIGNAL HEADS SHALL BE LOCATED TO ALIGN WITH THE PRE-STAGE LANE CONFIGURATION.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT OF WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
4	EACH	SIGNAL HEAD, 3-FACE, 5-SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	ALUMINUM MAST ARM AND POLE
1	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION



TEMPORARY VIDEO DETECTION MOUNTING DETAIL

NOT TO SCALE

TS-16

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION (PRE-STAGE) AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)

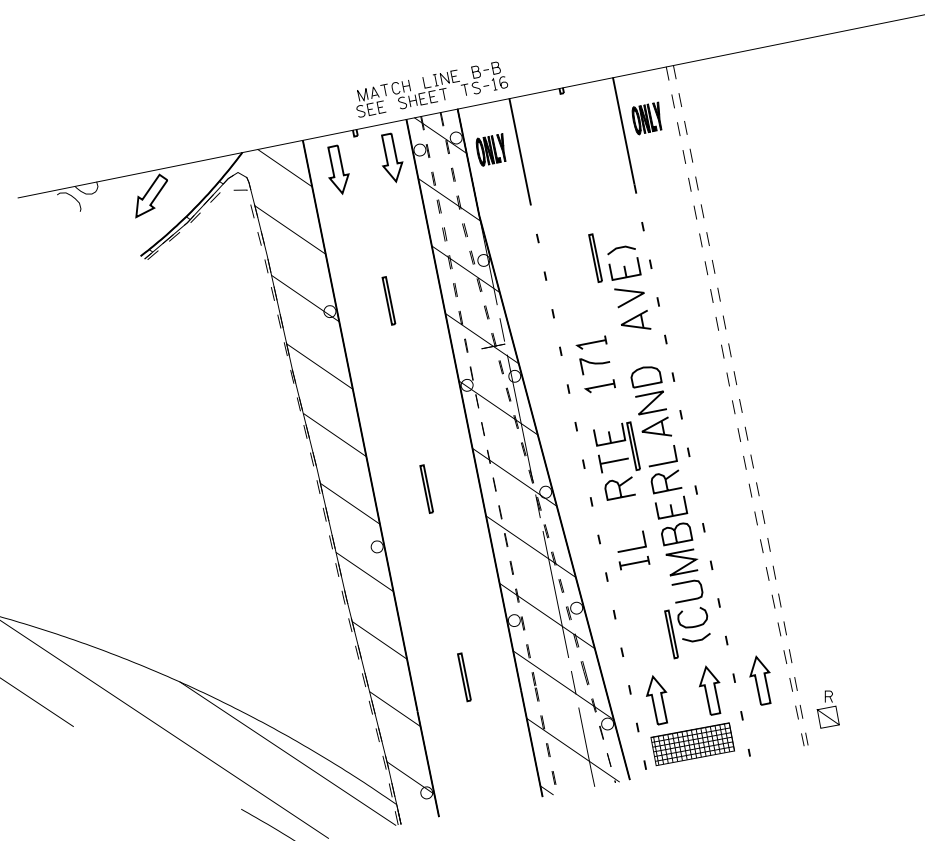
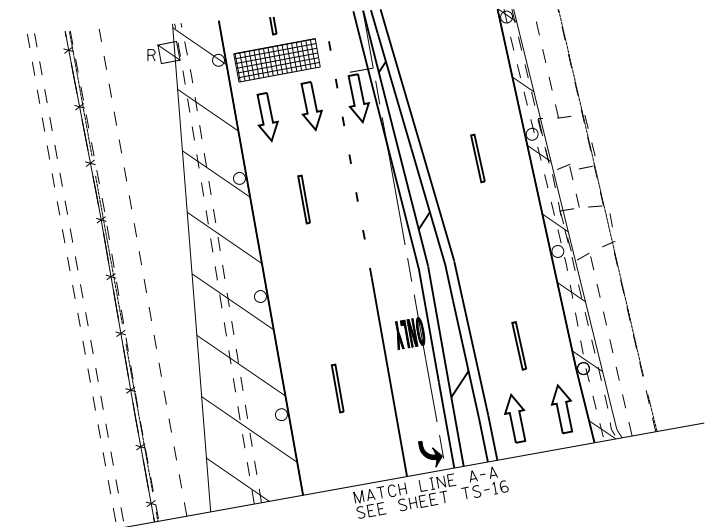
SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 123+50 TO STA. 128+12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	175
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

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NOTES FOR TEMPORARY TRAFFIC SIGNALS:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

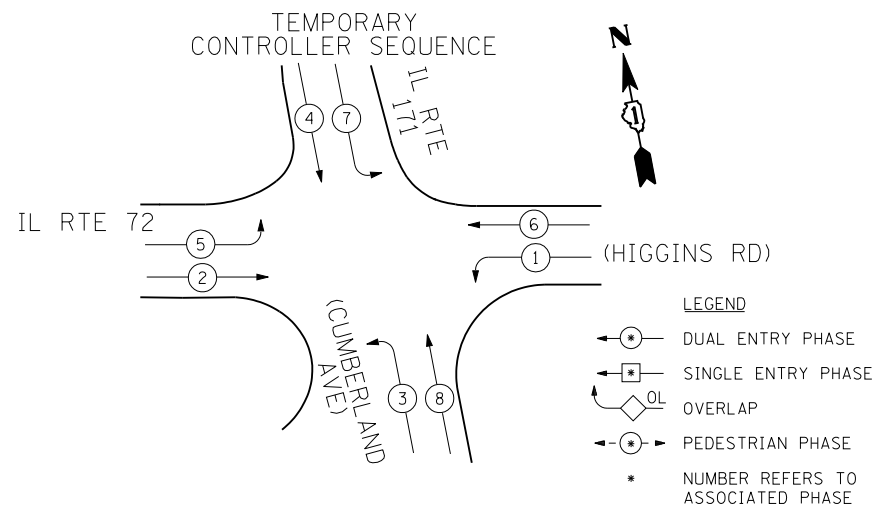
TEMPORARY TRAFFIC SIGNAL INSTALLATION (PRE-STAGE)
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 122+05 TO STA. 123+50

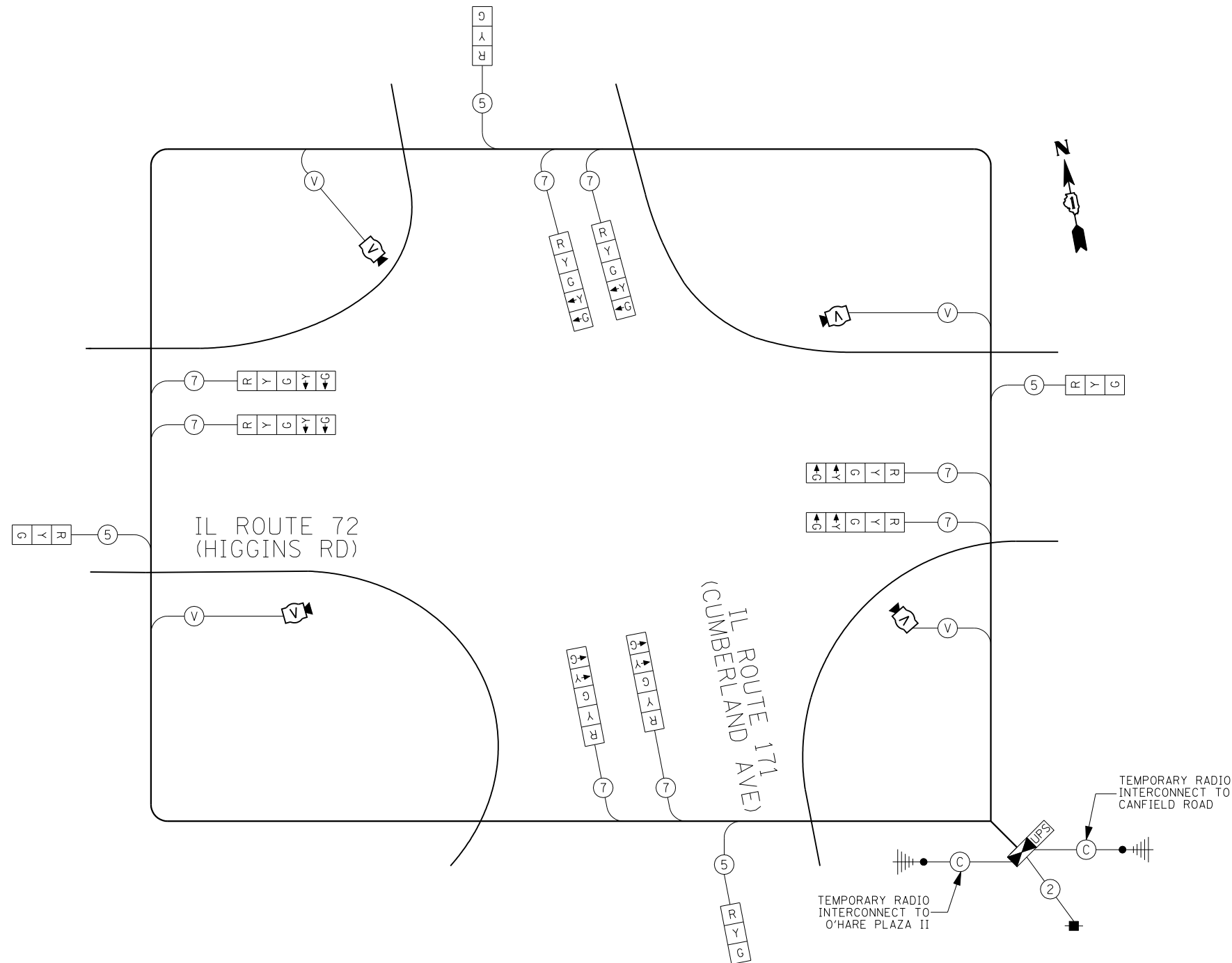
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	176
CONTRACT NO. 60J14				

ILLINOIS FED. AID PROJECT

TS-17



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

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I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	

ENERGY COSTS TO: TOTAL = 341.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
PHONE: (847) 816-5322
COMPANY: COM ED

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

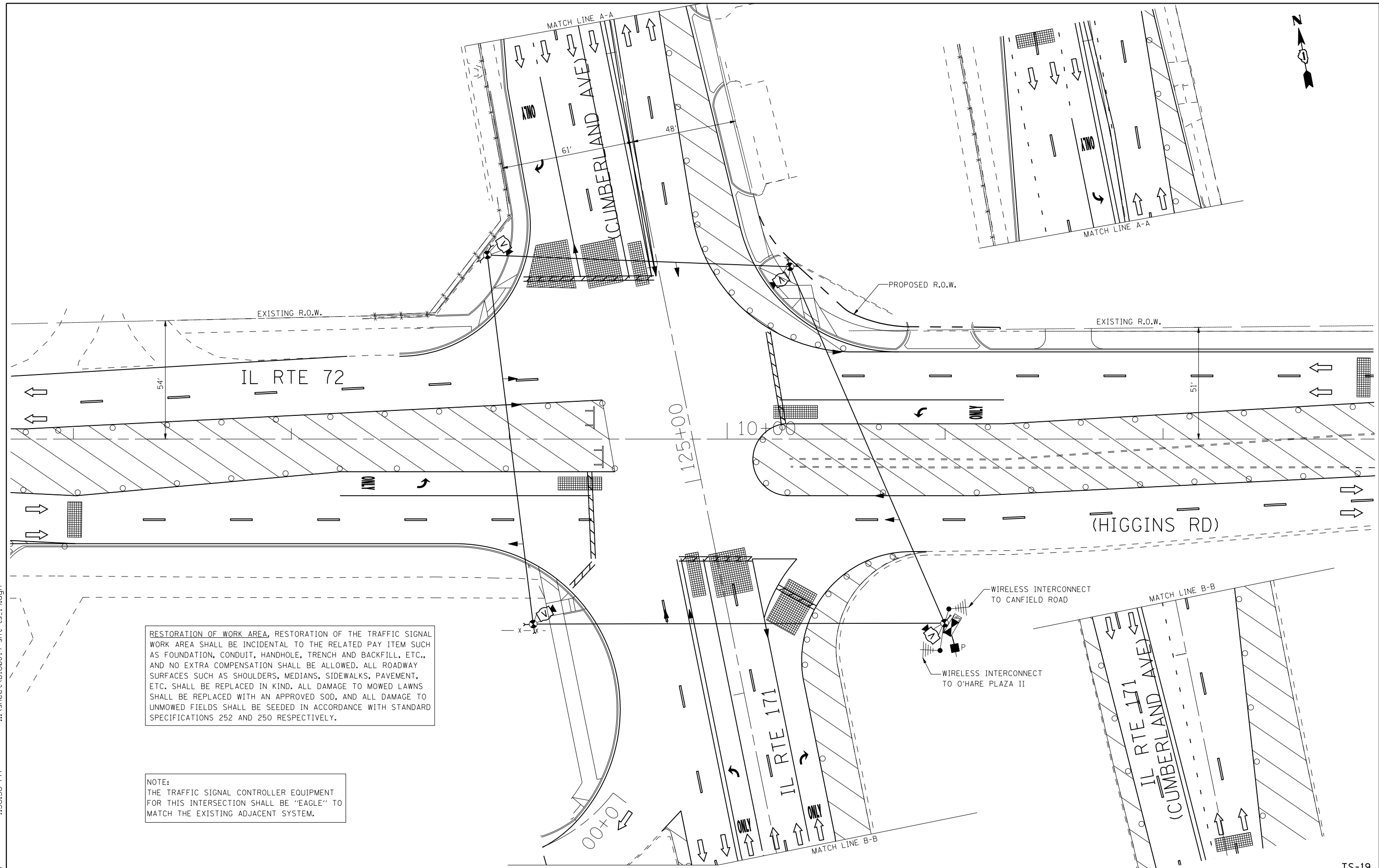
**TEMPORARY CABLE PLAN AND TEMPORARY
PHASE DESIGNATION DIAGRAM (PRE-STAGE)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	177
CONTRACT NO. 60J14				

ILLINOIS FED. AID PROJECT

TS-18



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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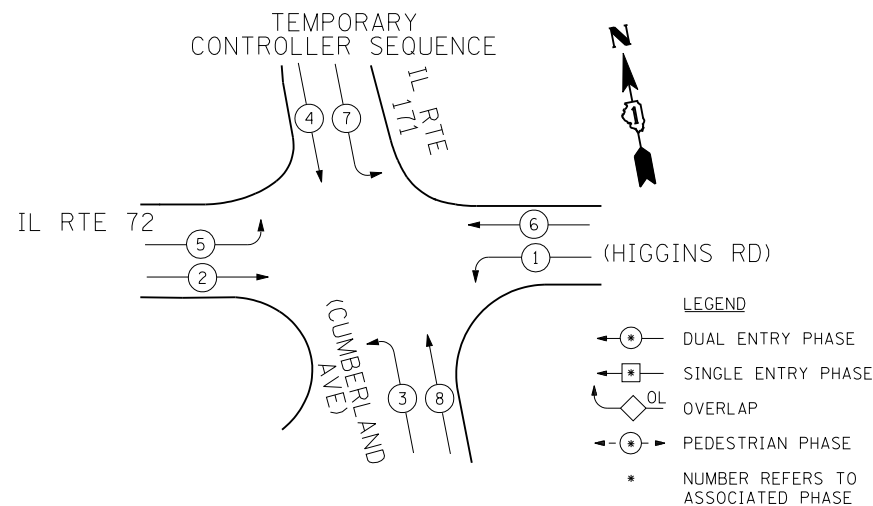


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

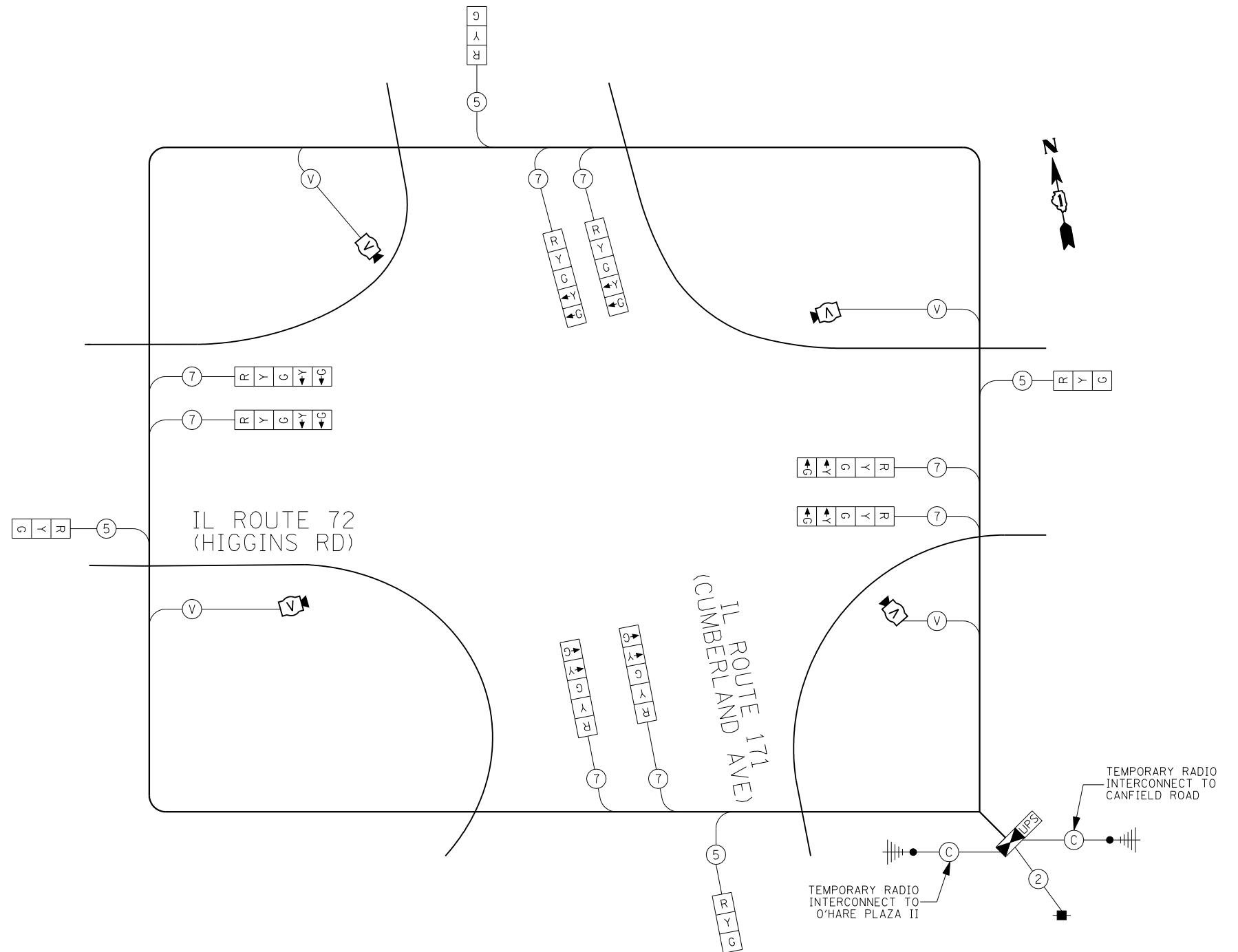
TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 1)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)
 SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 123+50 TO STA. 128+12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	178
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-19



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

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I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	
ENERGY COSTS TO:					TOTAL = 341.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
 PHONE: (847) 816-5322
 COMPANY: COM ED

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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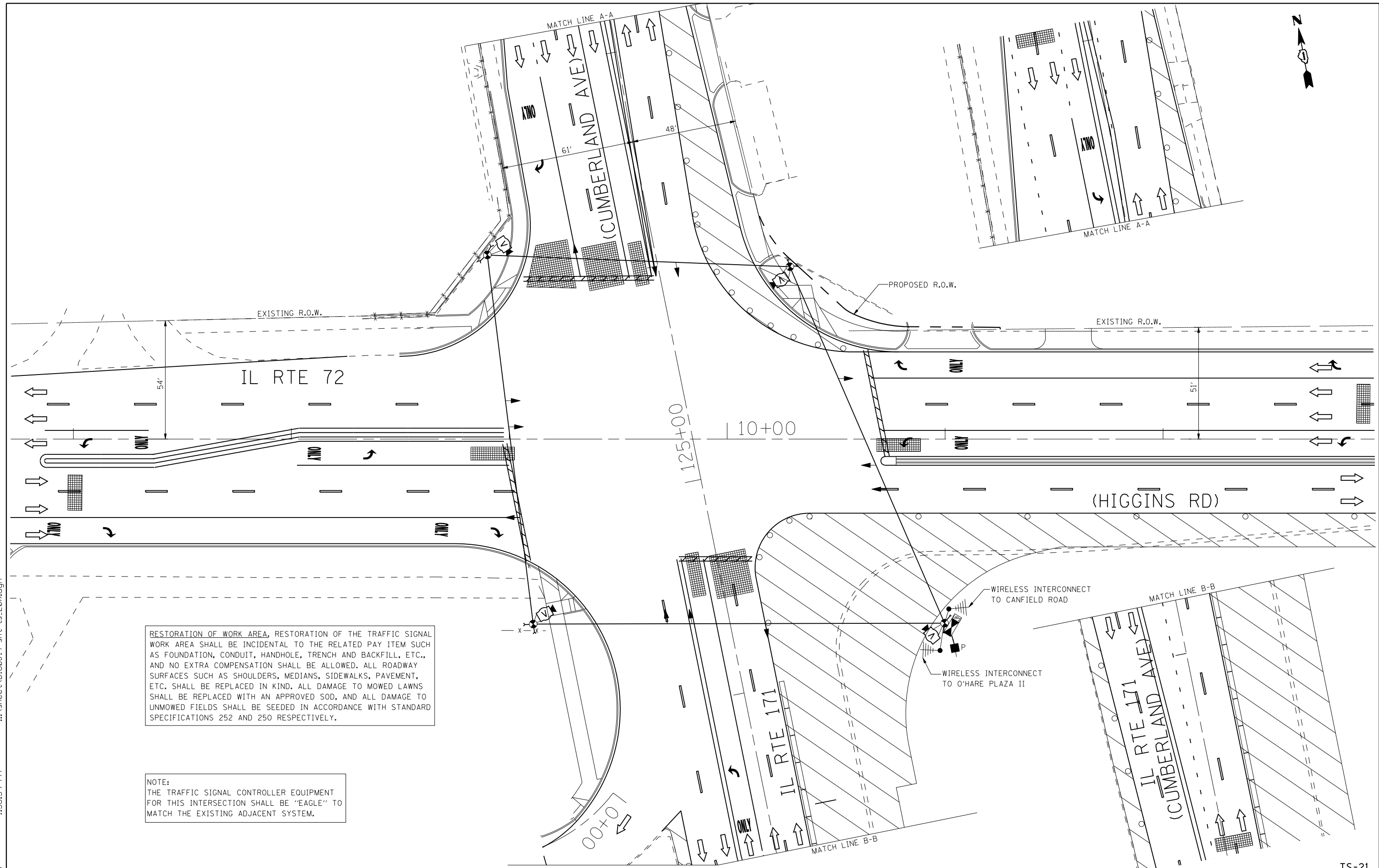
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND TEMPORARY
 PHASE DESIGNATION DIAGRAM (STAGE 1)
 IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	179
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-20



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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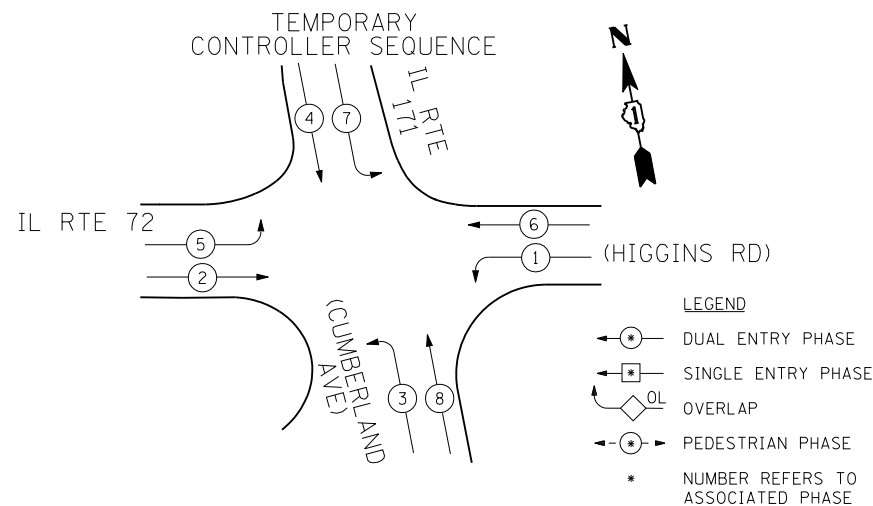
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 1A)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

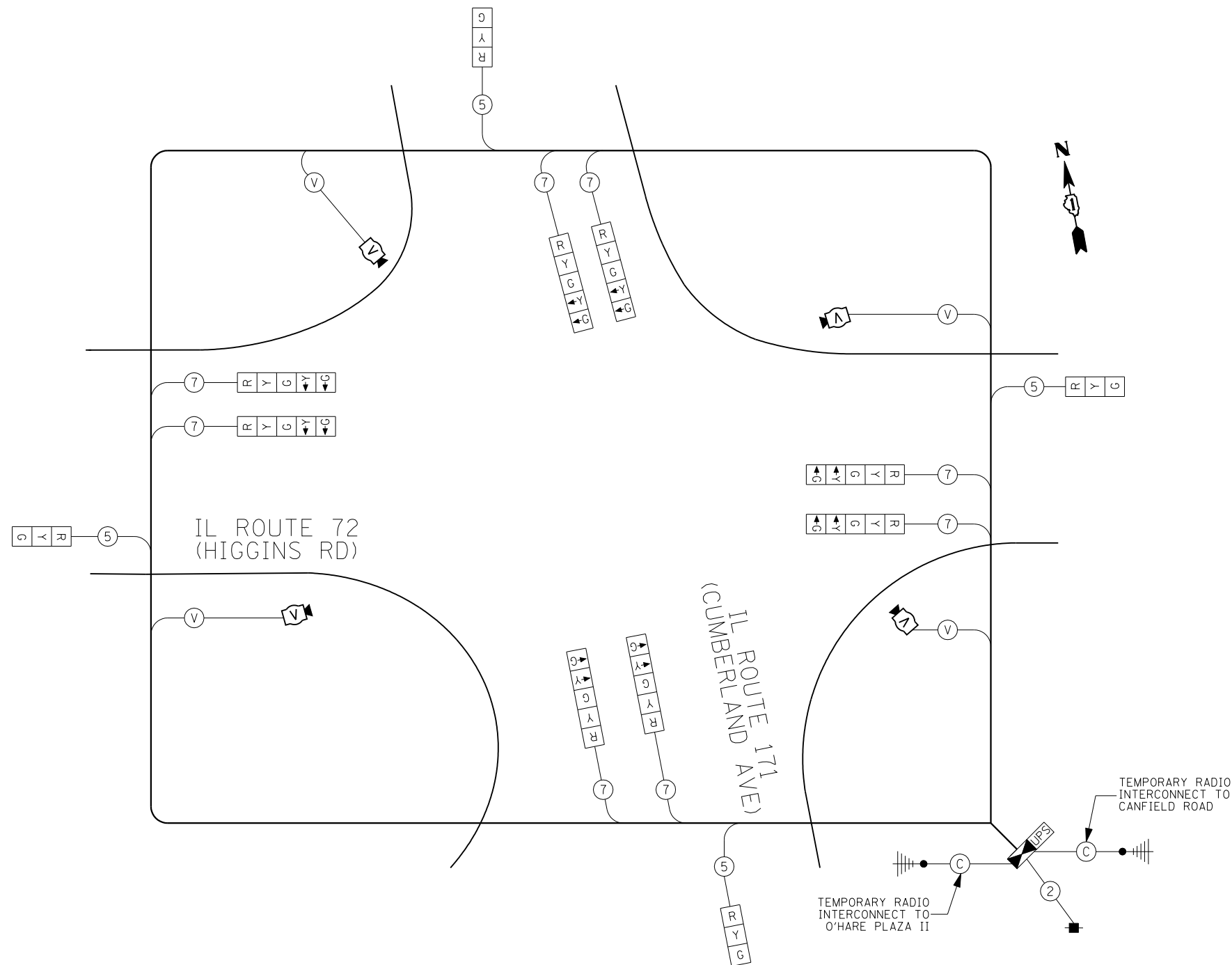
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 123+50 TO STA. 128+12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	180
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-21



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

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 2/18/2013

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	
ENERGY COSTS TO:					TOTAL = 341.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
 PHONE: (847) 816-5322
 COMPANY: COM ED

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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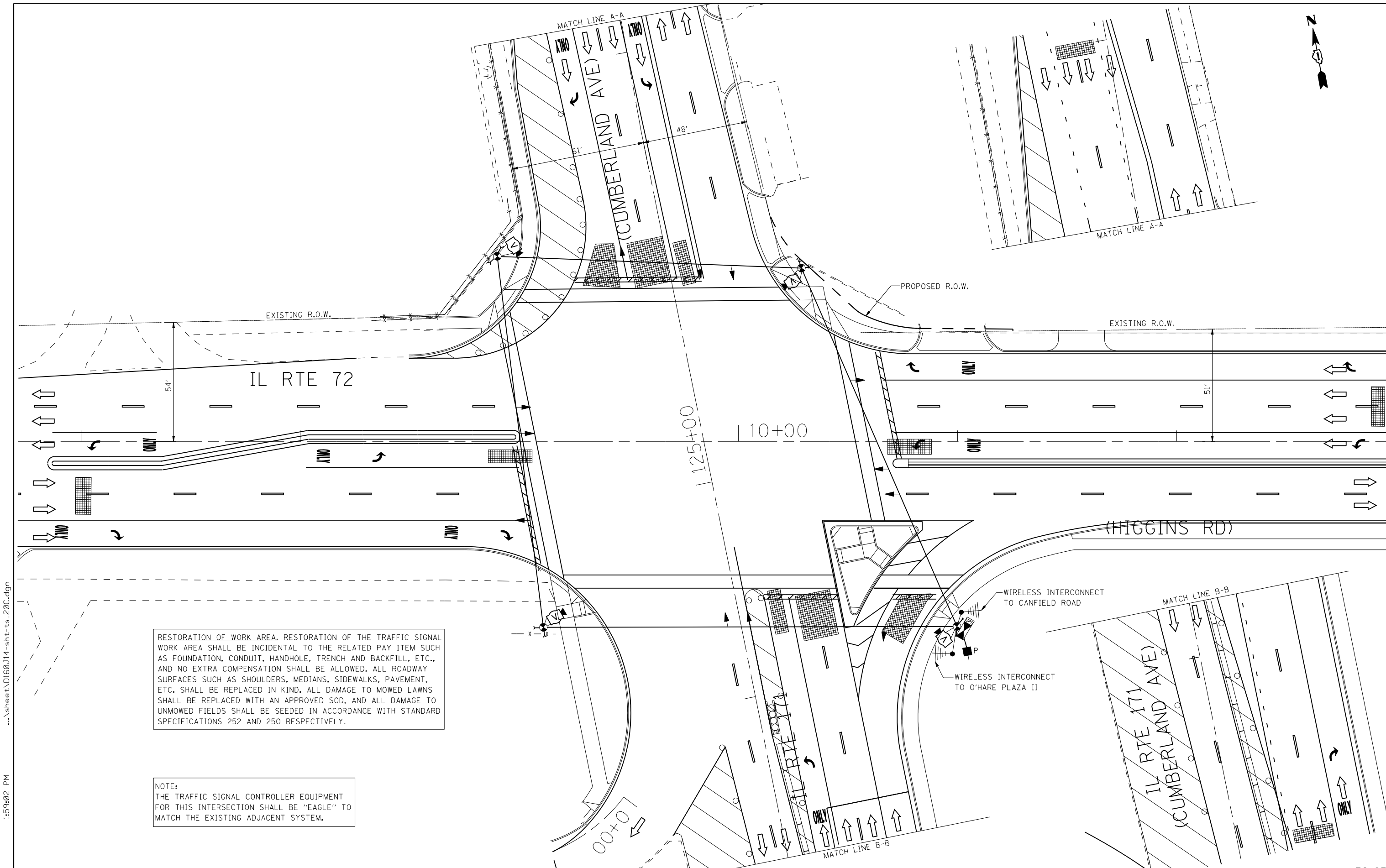
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND TEMPORARY
 PHASE DESIGNATION DIAGRAM (STAGE 1A)
 IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	181
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-22



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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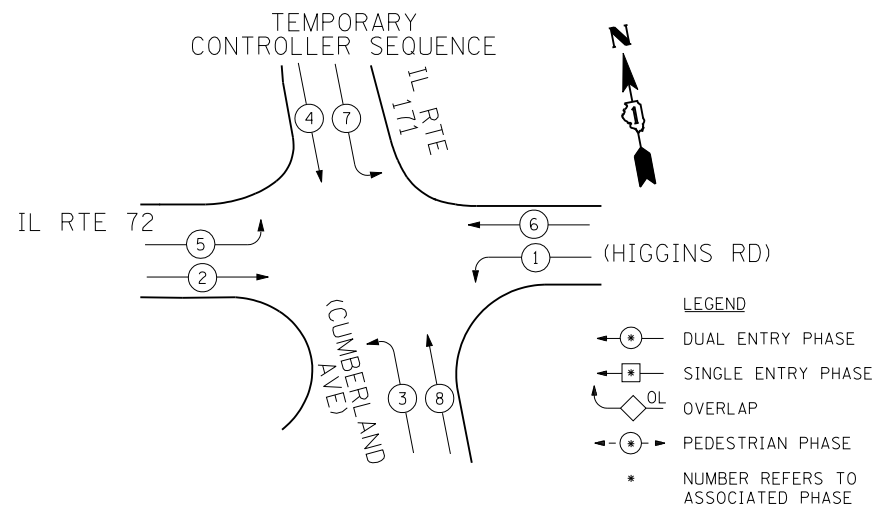


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

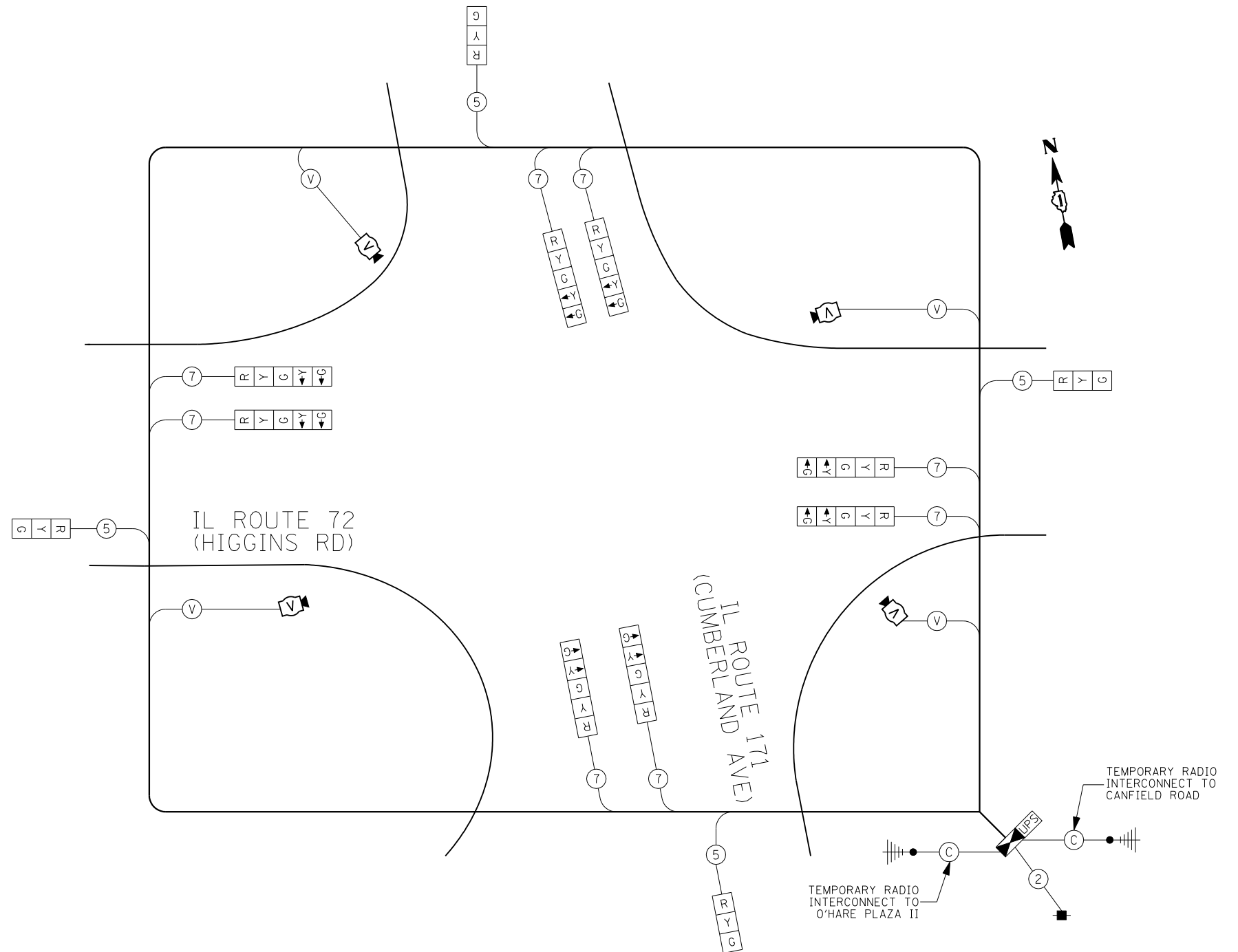
TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 2)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)
 SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 123+50 TO STA. 128+12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	182
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-23



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

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 2/18/2013

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	
ENERGY COSTS TO:					TOTAL = 341.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
 PHONE: (847) 816-5322
 COMPANY: COM ED

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

USER NAME =	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

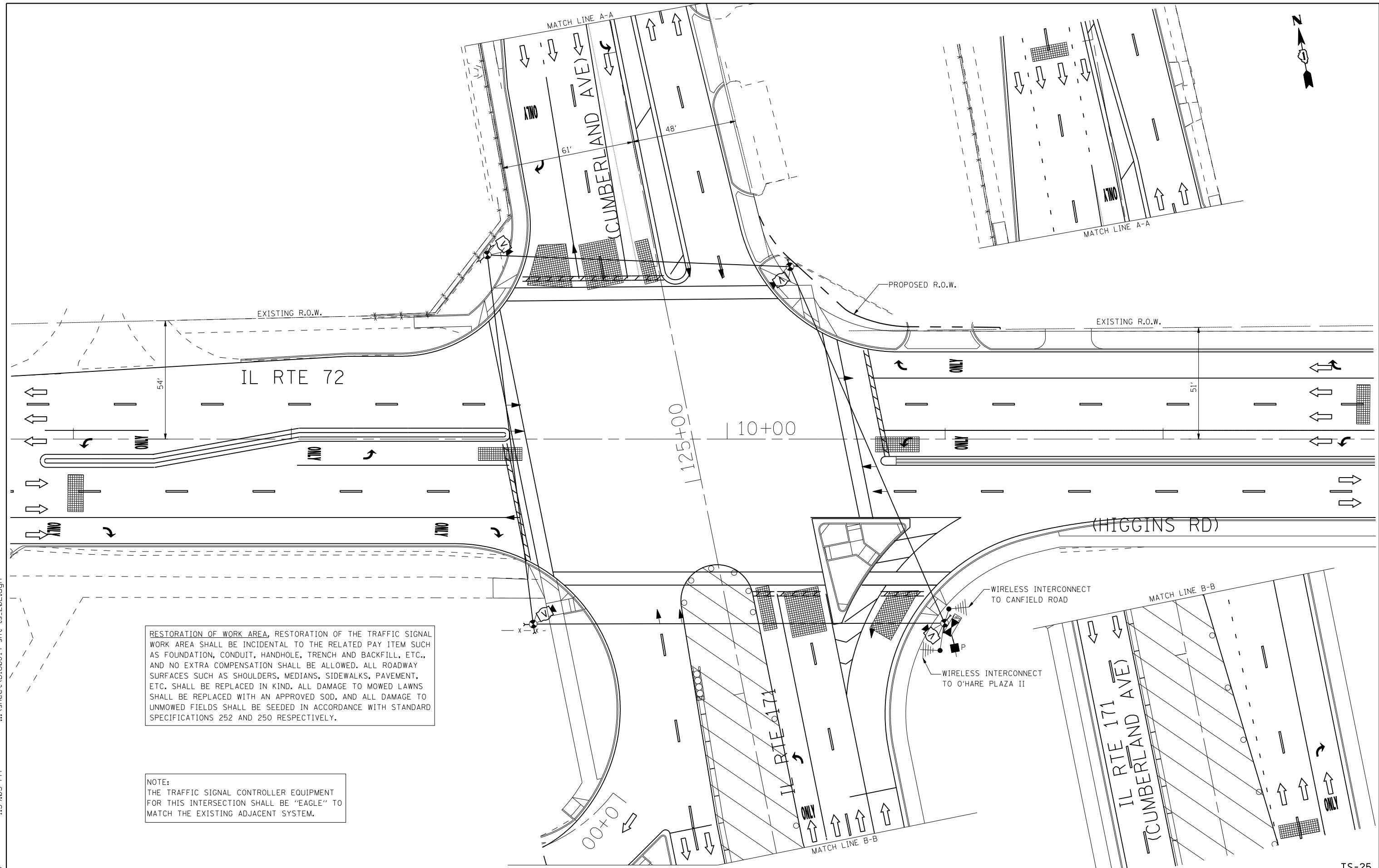
**TEMPORARY CABLE PLAN AND TEMPORARY
 PHASE DESIGNATION DIAGRAM (STAGE 2)
 IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	183
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-24

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RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

USER NAME =	DESIGNED - GR	REVISED -
PLOT SCALE =	DRAWN - GR	REVISED -
PLOT DATE =	CHECKED - CG	REVISED -
	DATE - 2/18/2013	REVISED -



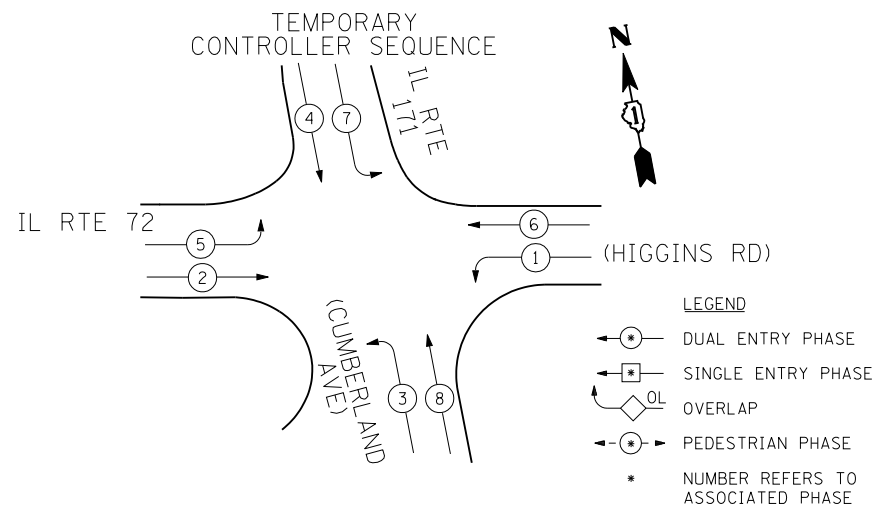
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION (STAGE 3)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

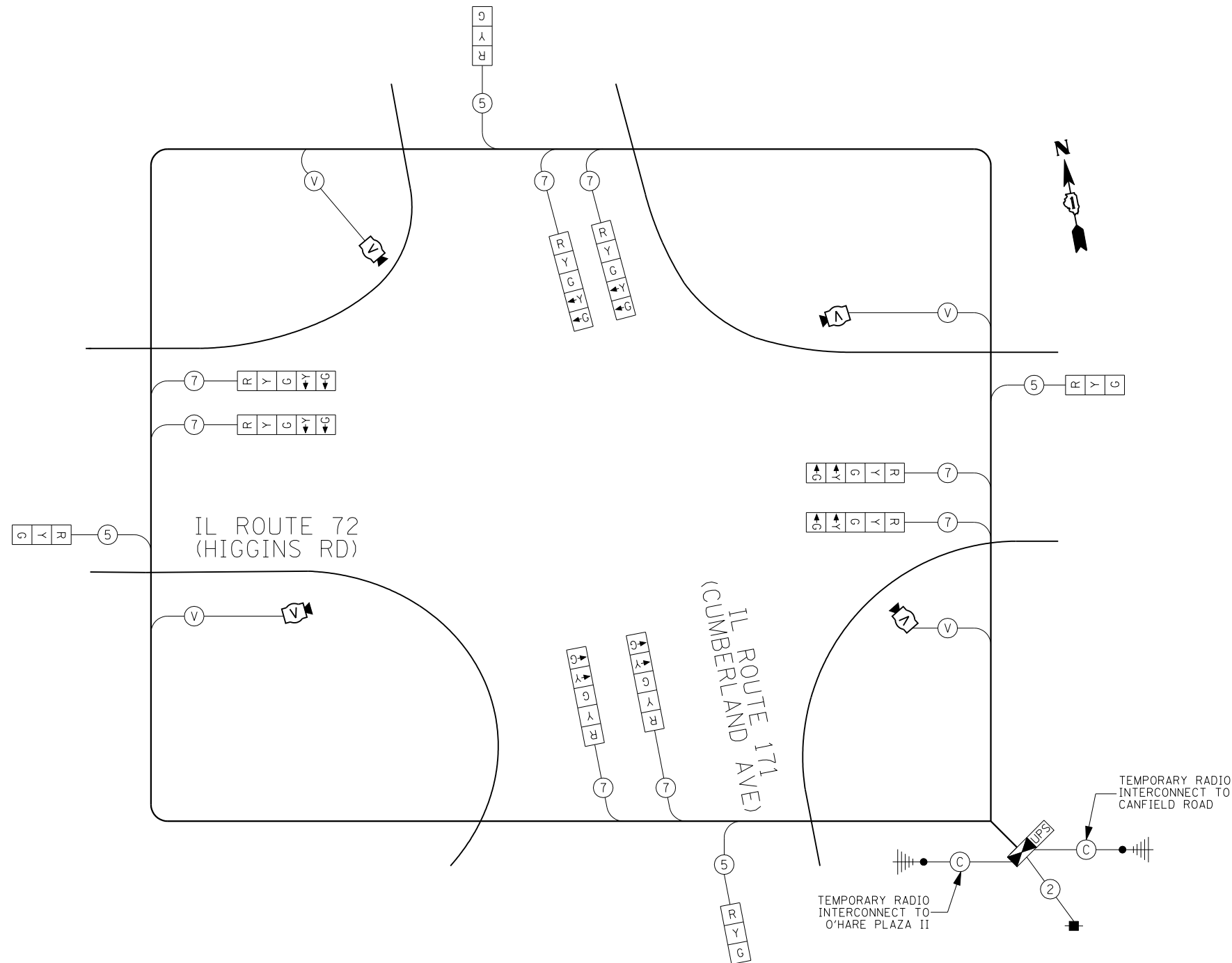
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 123+50 TO STA. 128+12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	184
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-25



TEMPORARY PHASE DESIGNATION DIAGRAM



TEMPORARY CABLE PLAN

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 2/18/2013

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	
ENERGY COSTS TO:					TOTAL = 341.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
 PHONE: (847) 816-5322
 COMPANY: COM ED

NOTE:
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



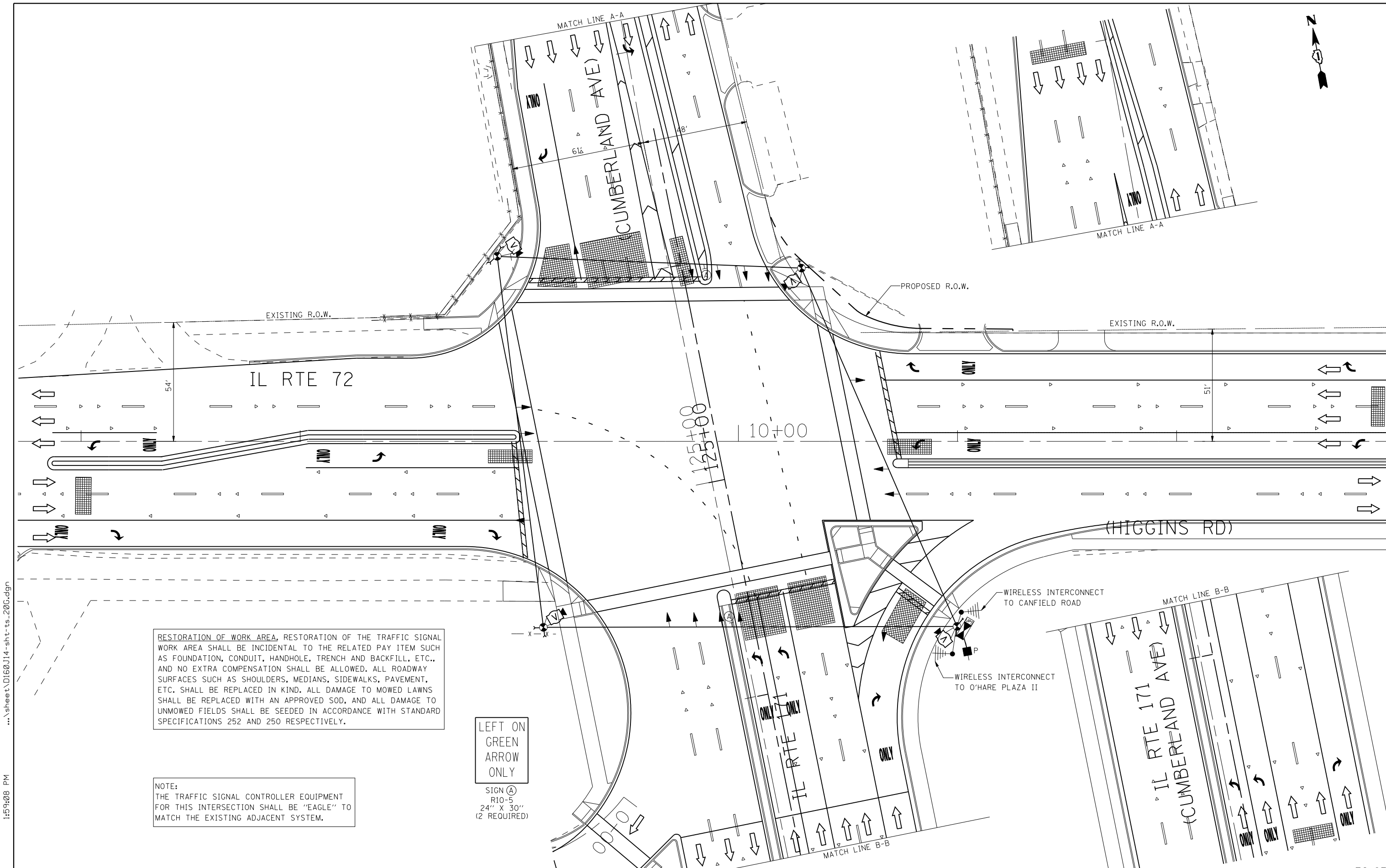
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND TEMPORARY
PHASE DESIGNATION DIAGRAM (STAGE 3)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	185
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-26



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LEFT ON GREEN ARROW ONLY

SIGN (A)
R10-5
24" X 30"
(2 REQUIRED)

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USER NAME =	DESIGNED - GR	REVISED -
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PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



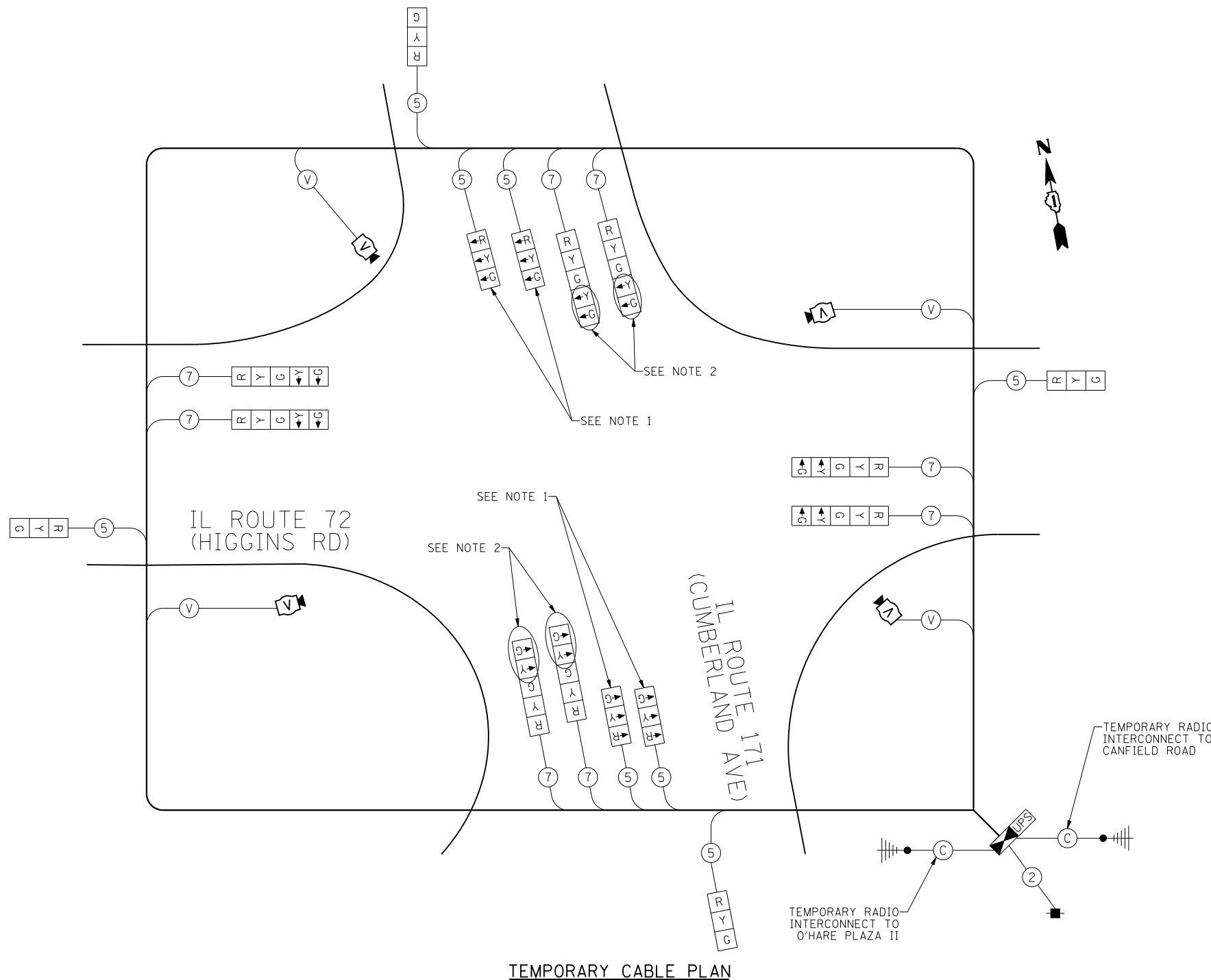
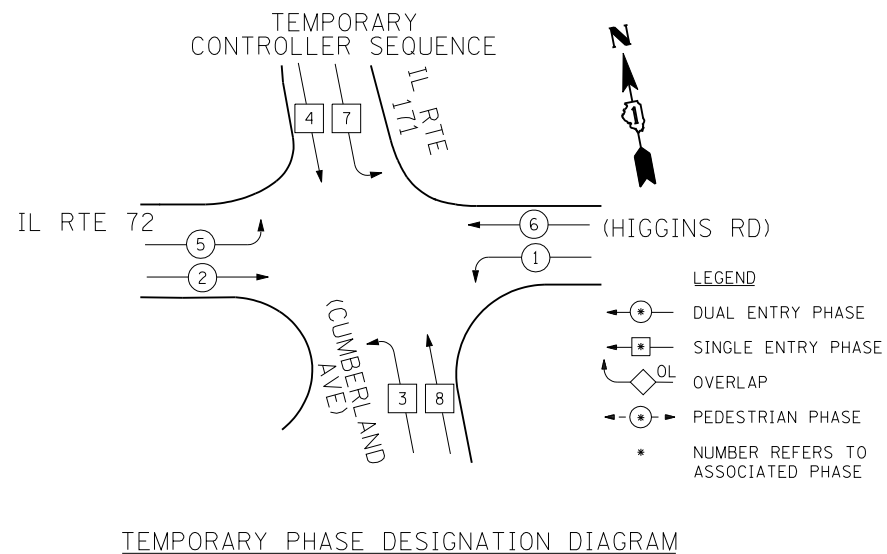
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION (PROPOSED CONDITIONS)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 123+50 TO STA. 128+12

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	186
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-27



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I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	16	135	17	0.50	136.00
(YELLOW)	16	135	25	0.25	100.00
(GREEN)	16	135	15	0.25	60.00
ARROW		135	12	0.10	
PED. SIGNAL	-	90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	

ENERGY COSTS TO: TOTAL = 396.00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
PHONE: (847) 816-5322
COMPANY: COM ED

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- NOTES:**
- CONTRACTOR SHALL INSTALL SIGNAL HEADS PRIOR TO ACTIVATION OF THE FINAL STAGE (TEMPORARY SIGNALS FOR PROPOSED CONDITIONS).
 - CONTRACTOR SHALL COVER AND DE-ENERGIZE THE ARROW SECTION HEADS FOR THE DURATION OF THE FINAL STAGE (TEMPORARY SIGNALS FOR PROPOSED CONDITIONS).

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PLOT DATE =	DATE - 2/18/2013	REVISED -



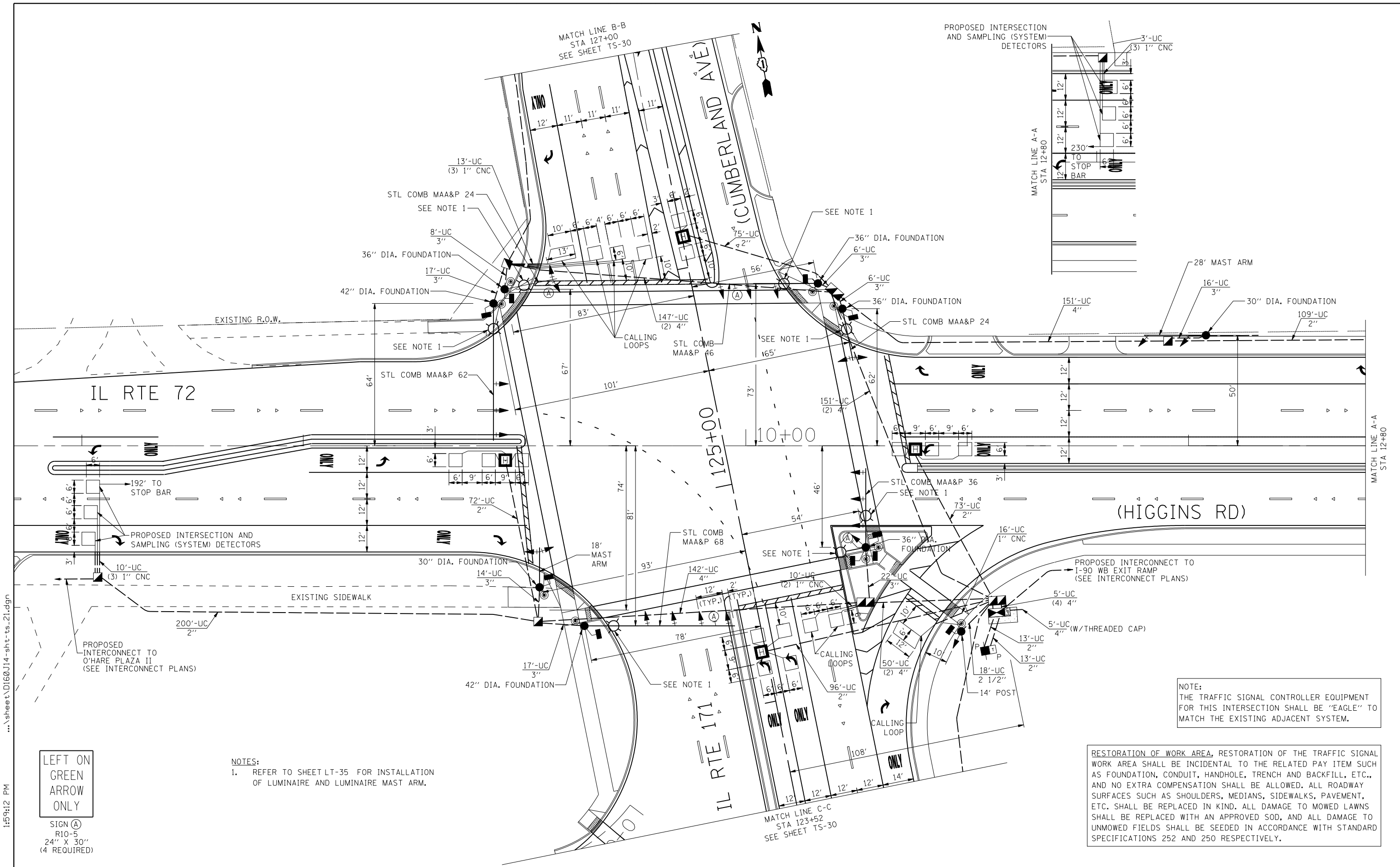
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND TEMPORARY
PHASE DESIGNATION DIAGRAM (PROPOSED CONDITIONS)
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	187
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-28



LEFT ON GREEN ARROW ONLY
SIGN (A)
R10-5
24" X 30"
(4 REQUIRED)

NOTES:
1. REFER TO SHEET LT-35 FOR INSTALLATION OF LUMINAIRE AND LUMINAIRE MAST ARM.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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USER NAME =	DESIGNED - GR	REVISED -
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	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	188
CONTRACT NO. 60J14				

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 123+52 TO STA. 127+00

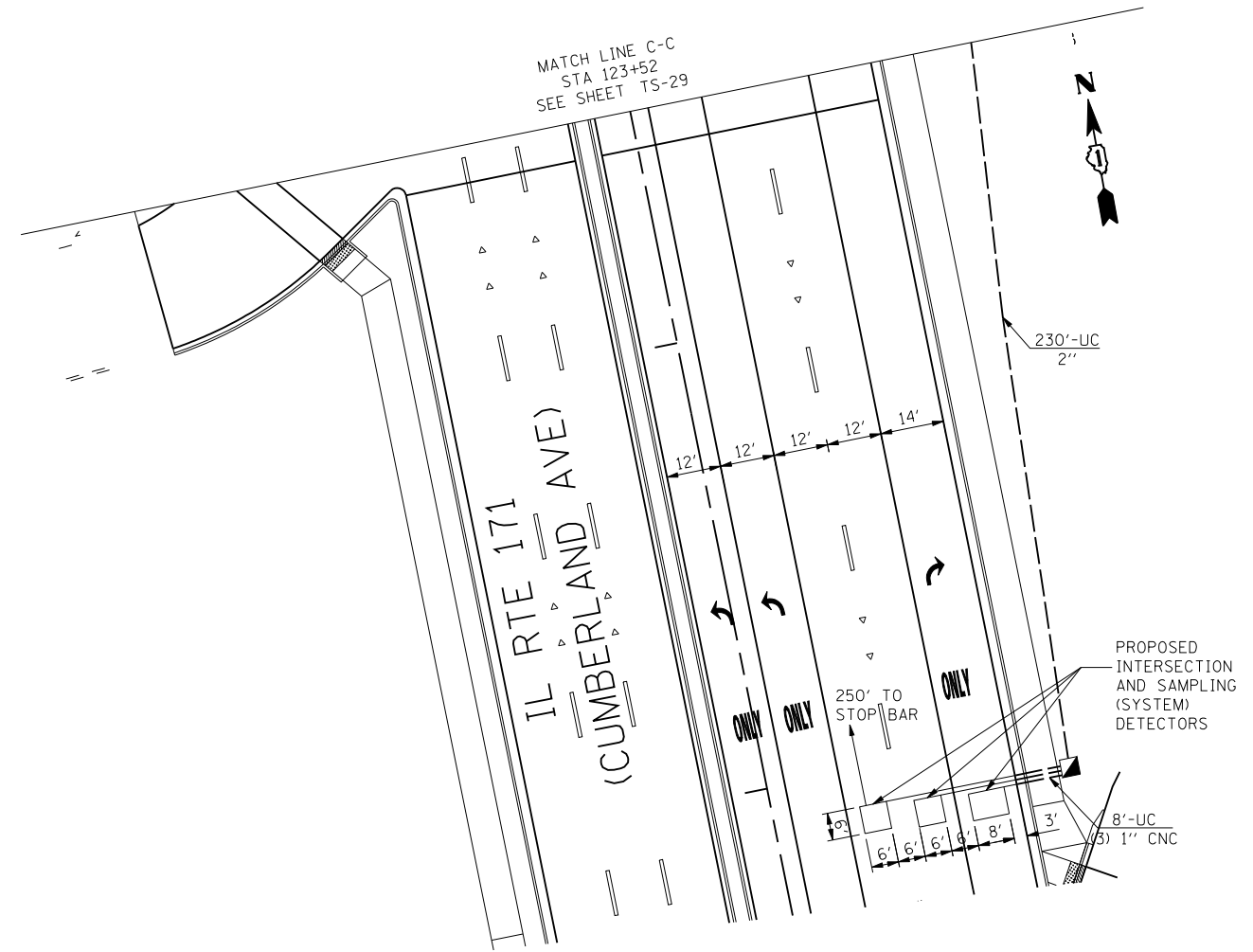
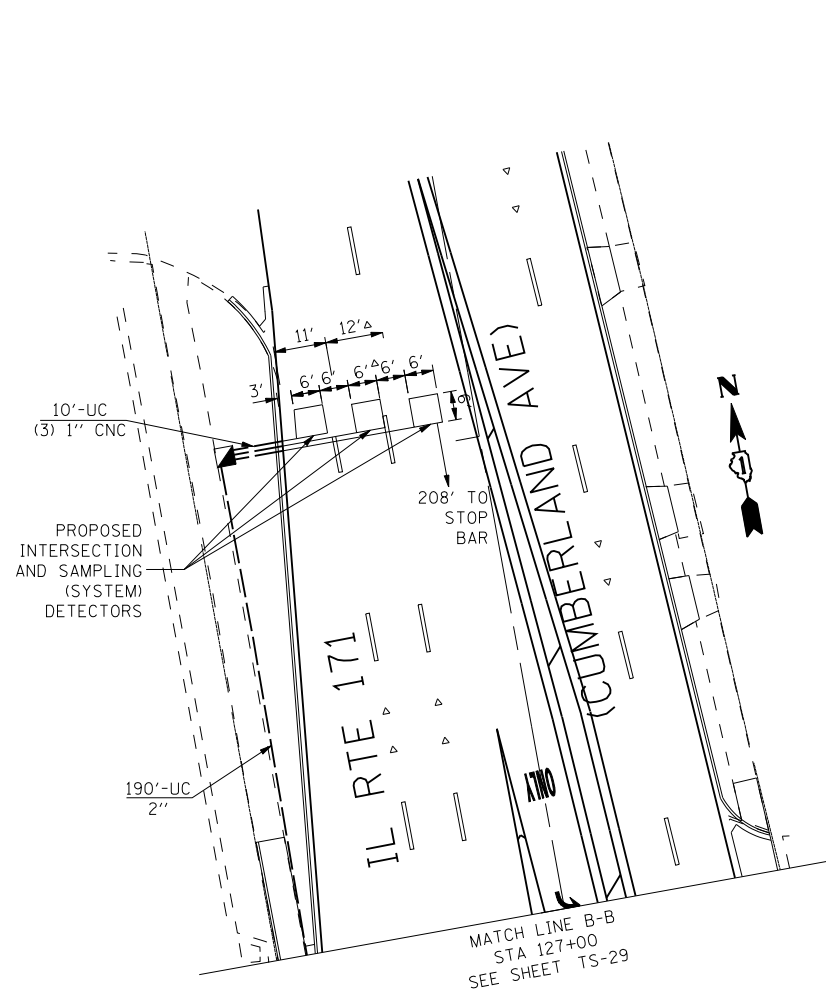
ILLINOIS FED. AID PROJECT

TS-29

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NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

USER NAME =	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	189
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-30

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	20
SIGN PANEL - TYPE 2	SQ FT	60
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1081
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	18
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	106
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1014
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
MASTER CONTROLLER IN TYPE V CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1857
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2070
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3687
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2882
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	7538
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	35
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1075
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 68 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	46
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	10
TIMER	EACH	7
TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	21
INDUCTIVE LOOP DETECTOR	EACH	24
DETECTOR LOOP, TYPE I	FOOT	1111
PEDESTRIAN PUSH-BUTTON	EACH	9
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	23	135	17	0.50	195.5
(YELLOW)	19	135	25	0.25	118.75
(GREEN)	19	135	15	0.25	71.25
ARROW	28	135	12	0.10	33.6
PED. SIGNAL	10	90	25	1.00	250
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	

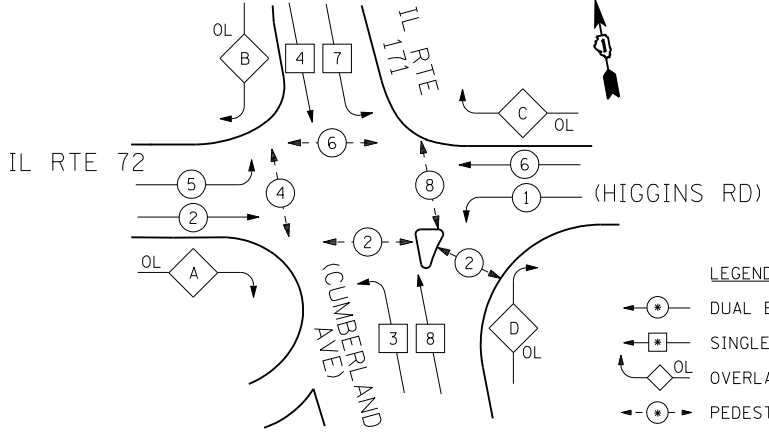
ENERGY COSTS TO: TOTAL = 769.1

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: MARY INFANTI
PHONE: (847) 816-5322
COMPANY: COM ED

USER NAME =	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -

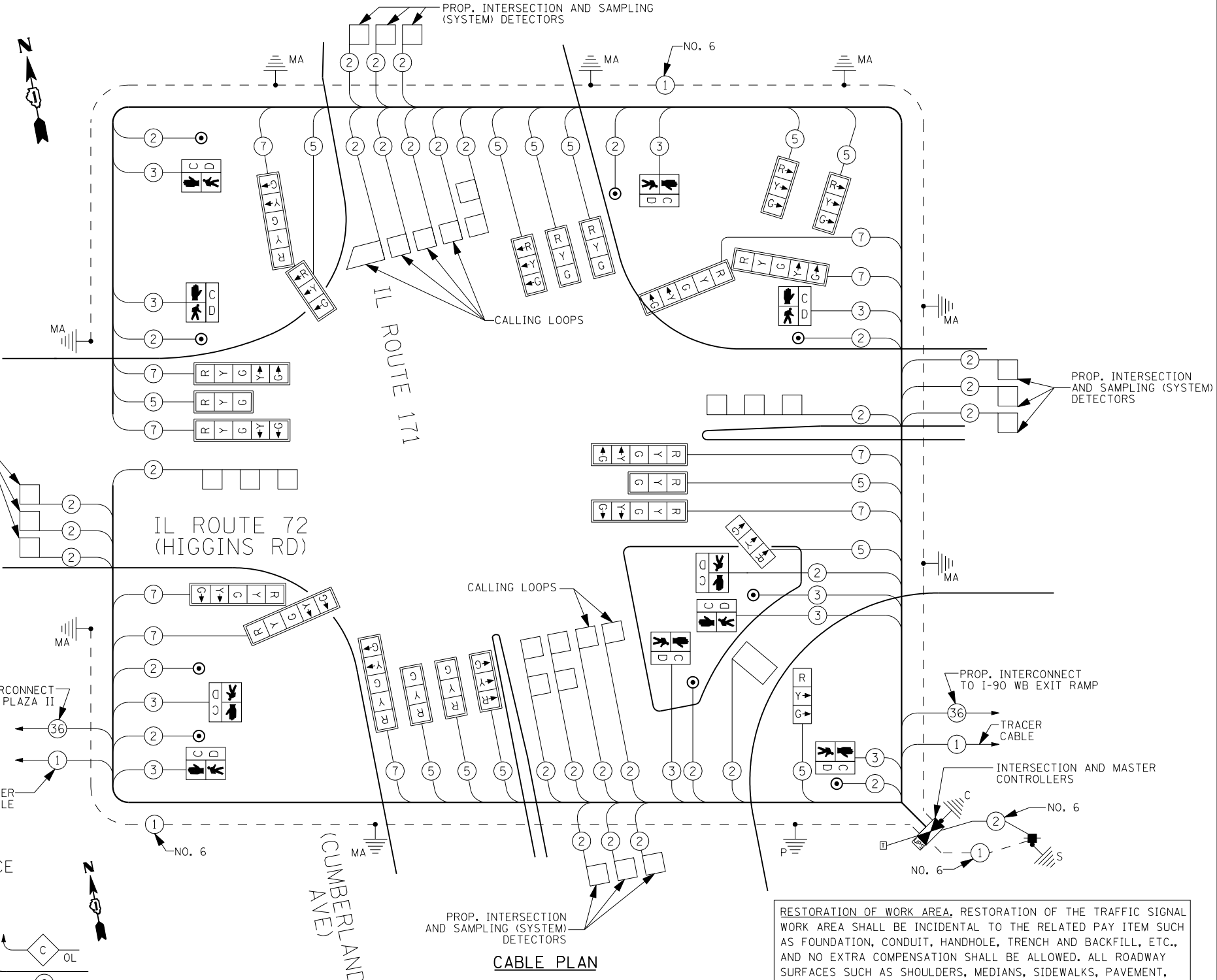
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	1	7
C	8	1
D	8	1

- LEGEND
- ⊙ DUAL ENTRY PHASE
 - ⊠ SINGLE ENTRY PHASE
 - ⊔ OVERLAP
 - ⊚ PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
IL RTE 72 (HIGGINS ROAD) AT IL RTE 171 (CUMBERLAND AVE)

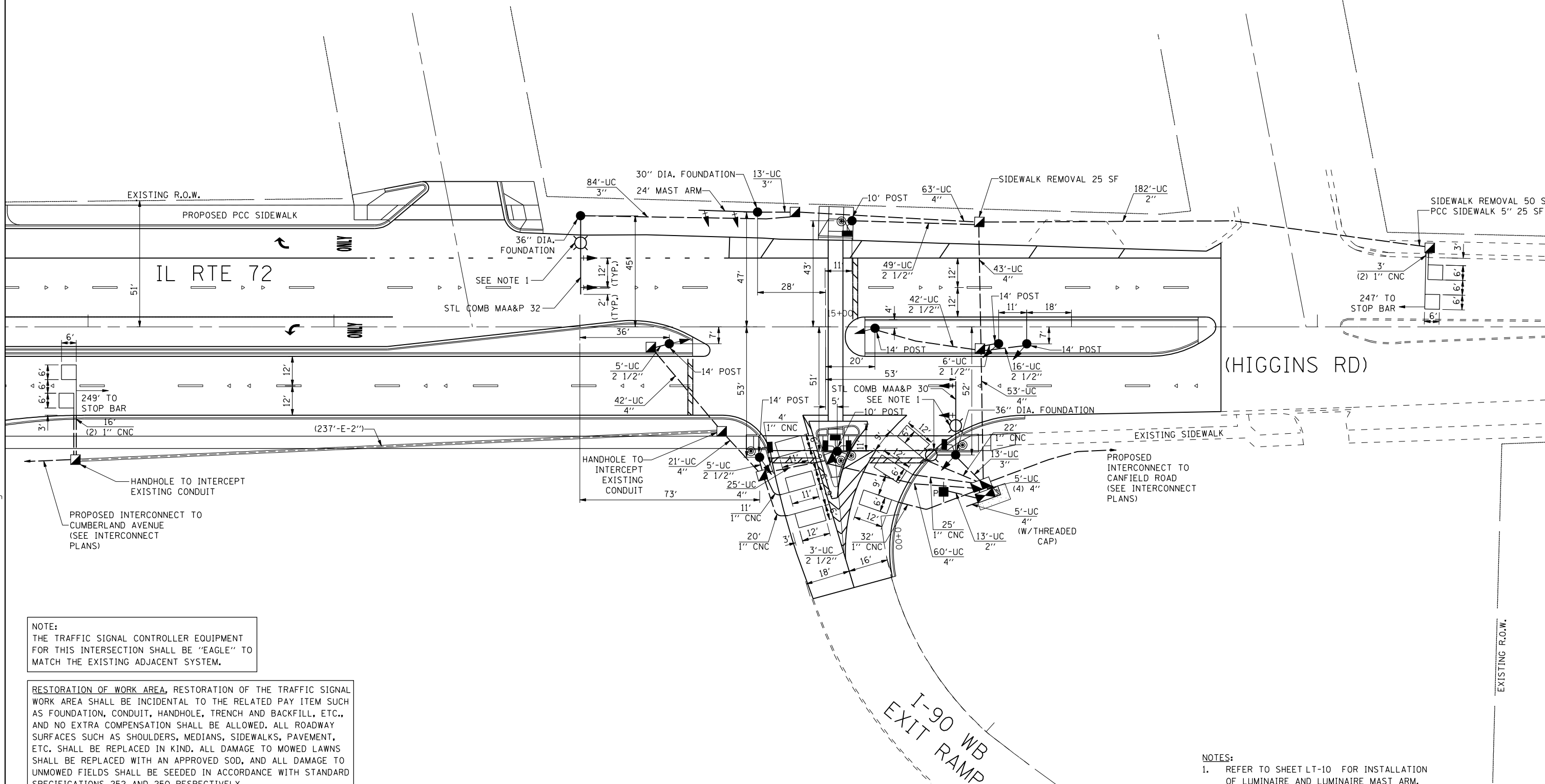
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	190
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-31



BROPHY AVE

FAIRVIEW AVE



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTES:
1. REFER TO SHEET LT-10 FOR INSTALLATION OF LUMINAIRE AND LUMINAIRE MAST ARM.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

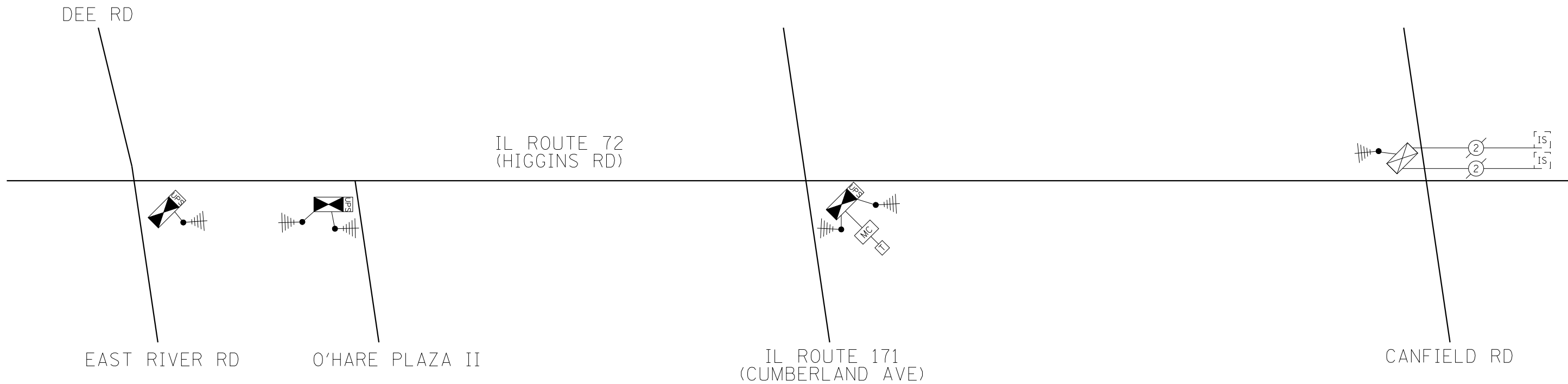
TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 72 (HIGGINS ROAD) AT I-90 WB EXIT RAMP

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 11+66 TO STA. 17+96

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	191
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

EXISTING R.O.W.

TS-32



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PLOT DATE =	DATE - 2/18/2013	REVISED -



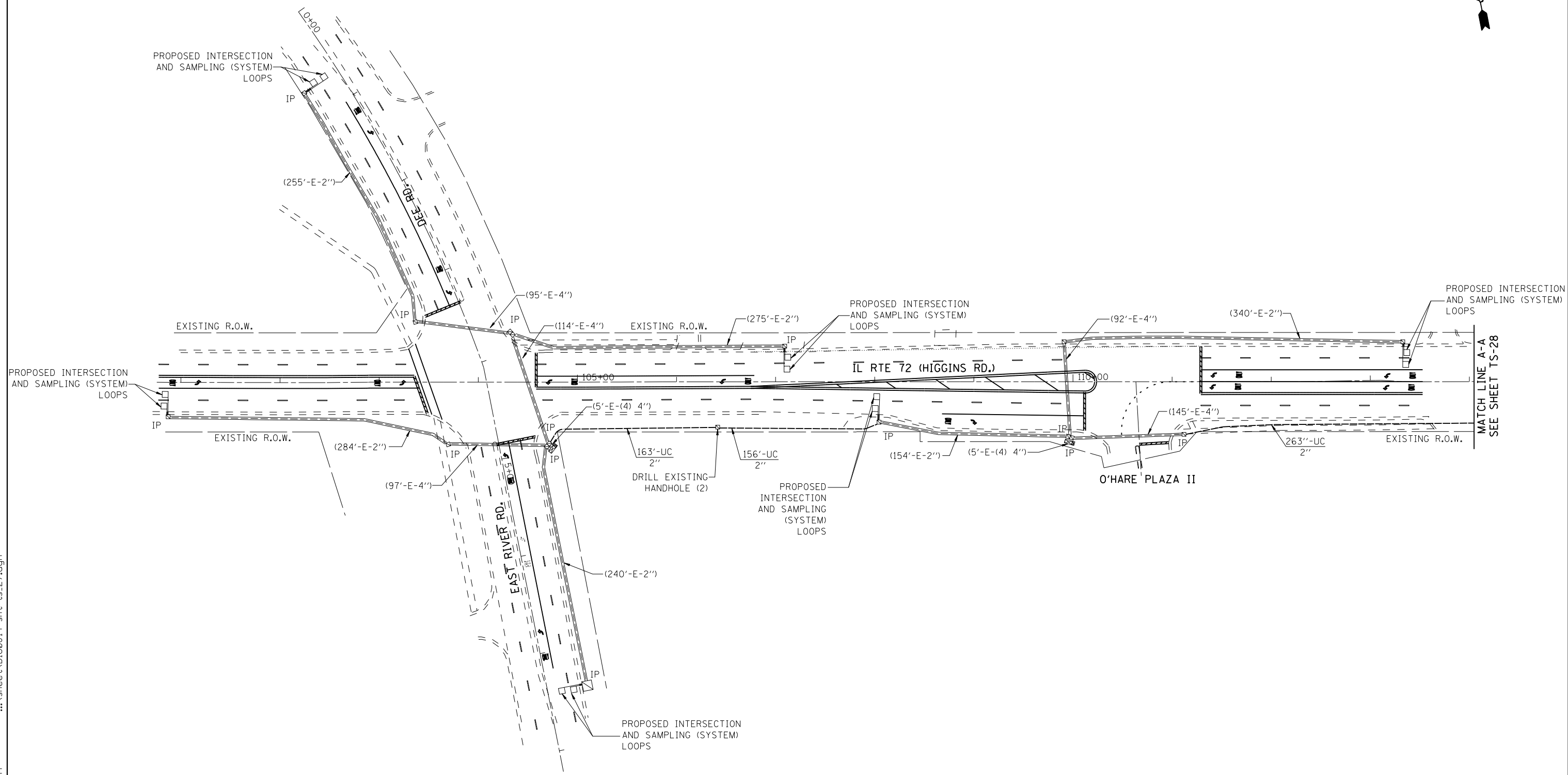
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
IL RTE 72 (HIGGINS RD)
DEE RD/EAST RIVER RD TO CANFIELD RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	193
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-34



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MATCH LINE A-A
 SEE SHEET TS-28

USER NAME =	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



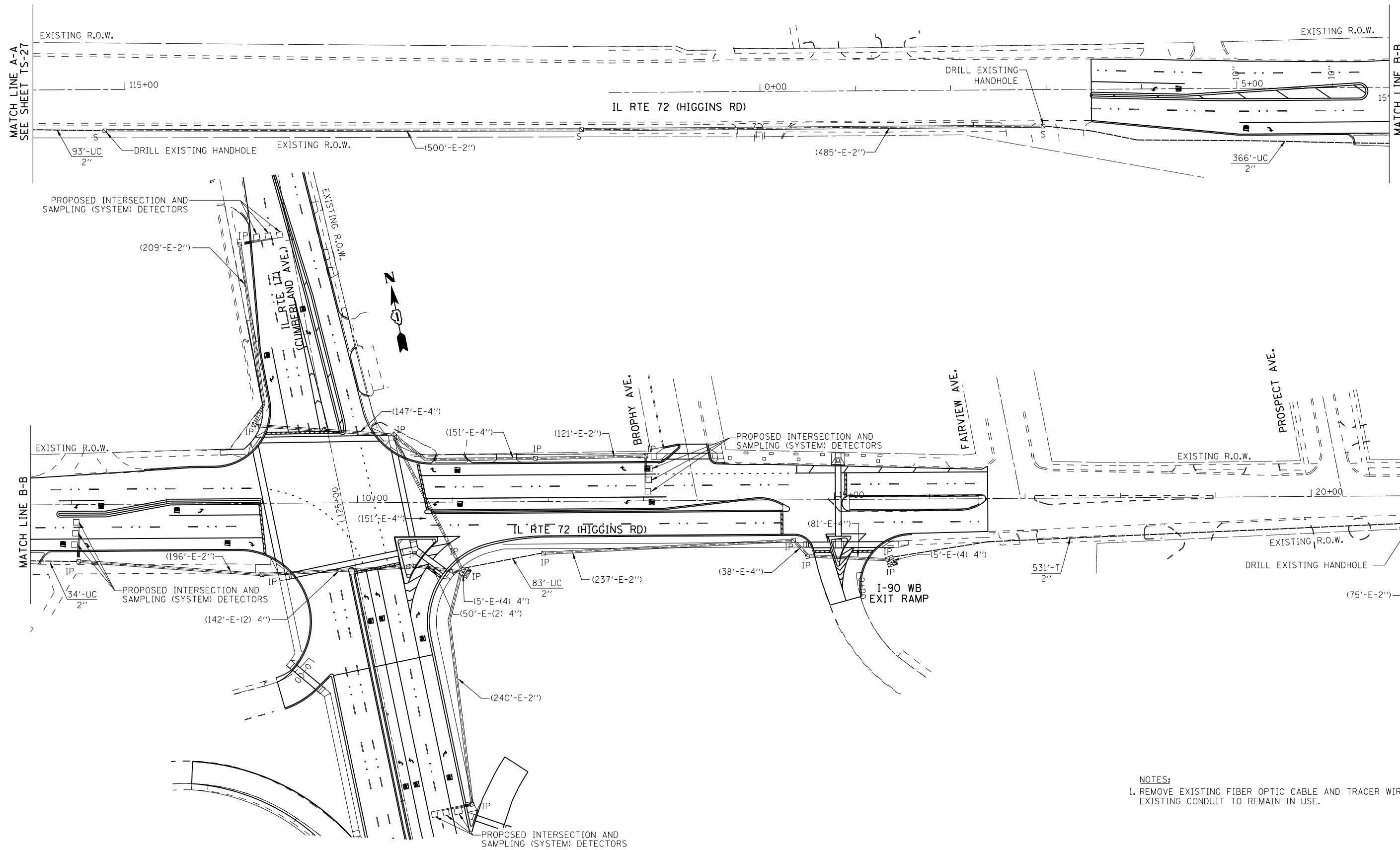
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INTERCONNECT PLAN
ILL RTE 72 (HIGGINS RD)
DEE RD/EAST RIVER RD. TO CANFIELD AVE.

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	194
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-35



NOTES:
 1. REMOVE EXISTING FIBER OPTIC CABLE AND TRACER WIRE FROM ALL EXISTING CONDUIT TO REMAIN IN USE.

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USER NAME =	DESIGNED - GR	REVISED -
PLOT SCALE =	DRAWN - GR	REVISED -
PLOT DATE =	CHECKED - CG	REVISED -
	DATE - 2/18/2013	REVISED -



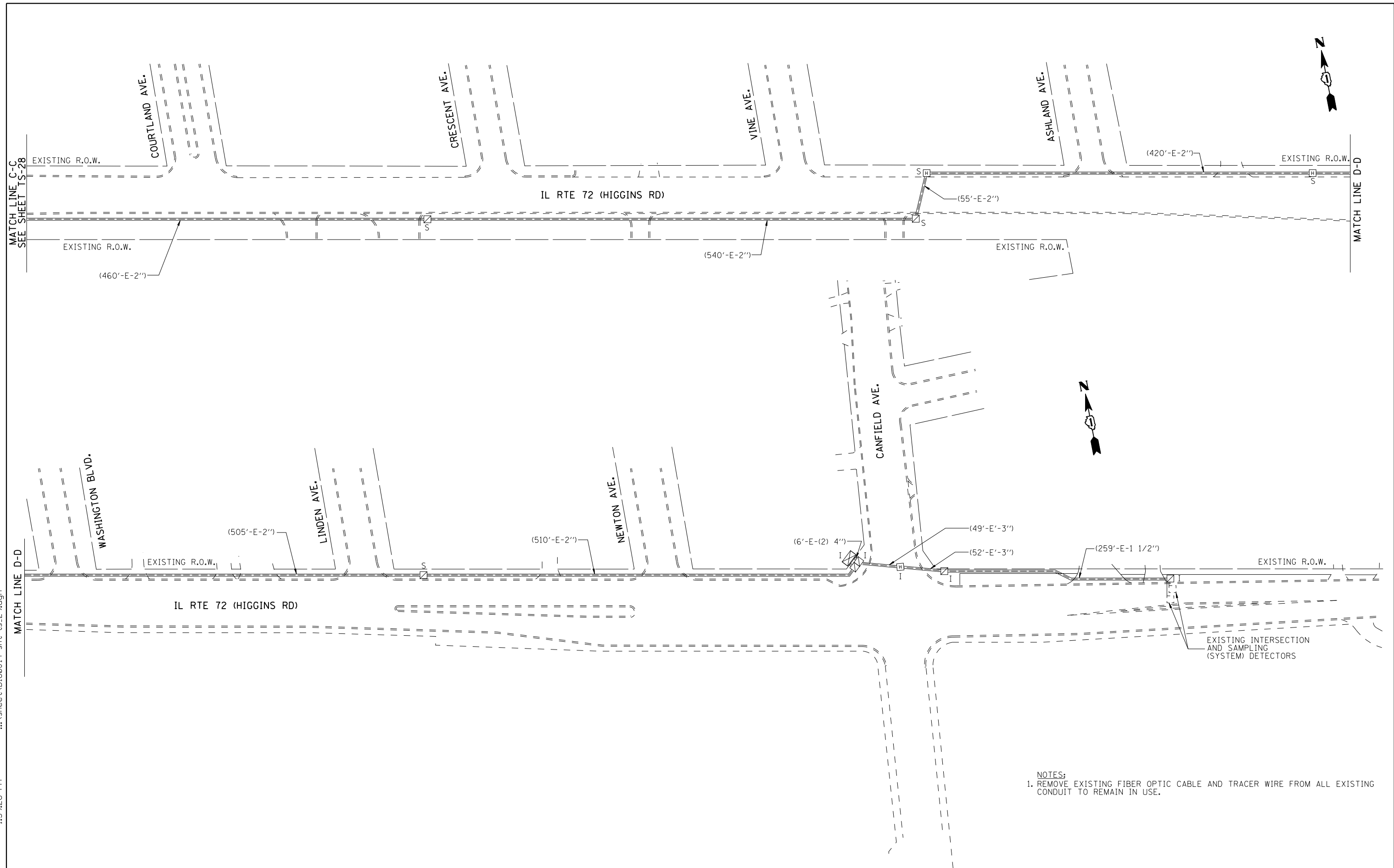
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INTERCONNECT PLAN
IL RTE 72 (HIGGINS RD)
DEE RD/EAST RIVER RD. TO CANFIELD AVE.
 SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	195
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-36

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NOTES:
 1. REMOVE EXISTING FIBER OPTIC CABLE AND TRACER WIRE FROM ALL EXISTING CONDUIT TO REMAIN IN USE.

USER NAME =	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



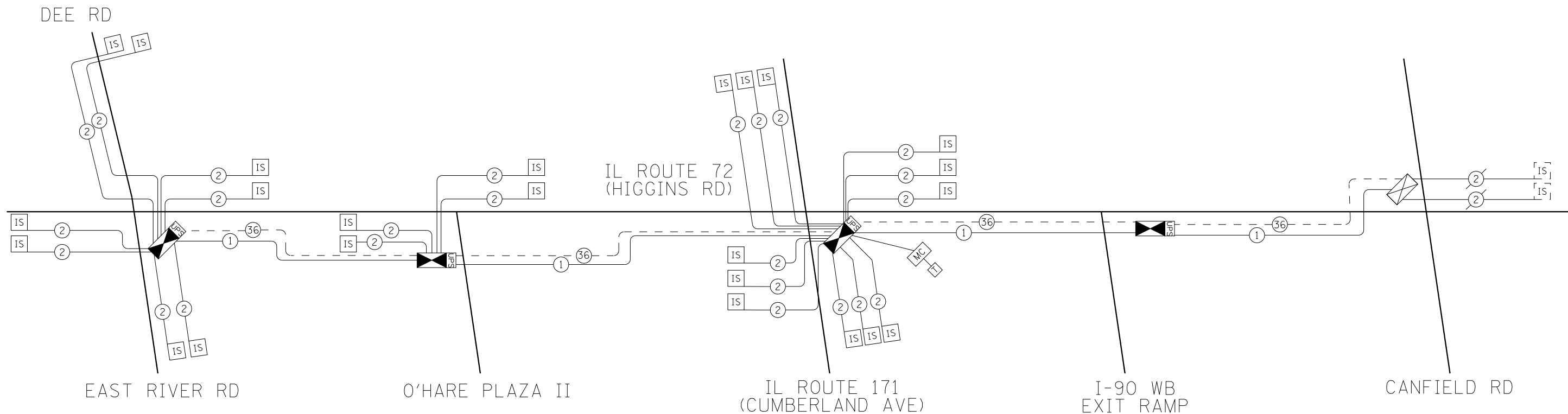
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INTERCONNECT PLAN
IL RTE 72 (HIGGINS RD.)
DEE RD/EAST RIVER RD. TO CANFIELD AVE.

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	196
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

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INTERCONNECT SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1247
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6594
DRILL EXISTING HANDHOLE	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7708
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	6663
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2

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2/18/2013

USER NAME =	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

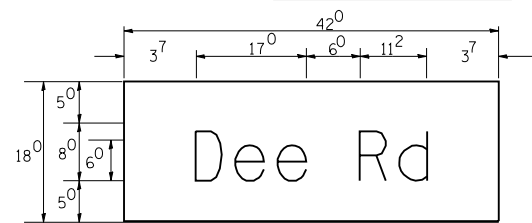
INTERCONNECT SCHEMATIC
IL RTE 72 (HIGGINS RD)
DEE RD/EAST RIVER RD TO CANFIELD RD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	197
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

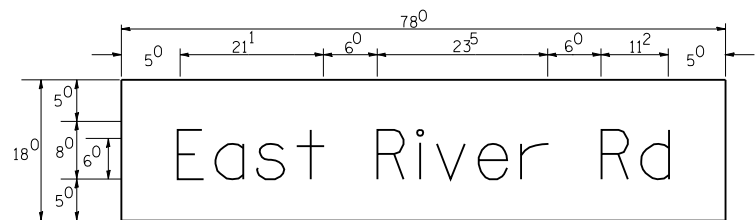
TS-38

PANEL SIGN DESIGN TYPE 1



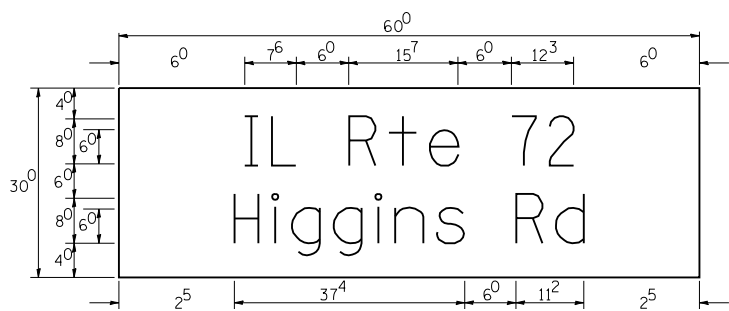
— Sq. M. each
 5.25 Sq. Ft. each
 2 Required
 Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

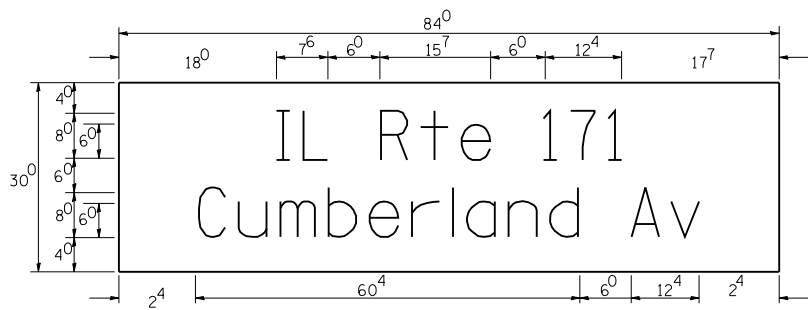


— Sq. M. each
 9.0 Sq. Ft. each
 2 Required
 Design Series D

PANEL SIGN DESIGN TYPE 2



— Sq. M. each
 12.5 Sq. Ft. each
 4 Required
 Design Series D



— Sq. M. each
 17.5 Sq. Ft. each
 2 Required
 Design Series D

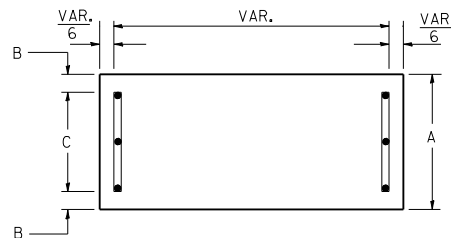
GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877001 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
 * J.D. HERBERT CO. MIDLOTHIAN, VA. * WESTERN REMAC INC. WOODRIDGE, IL.

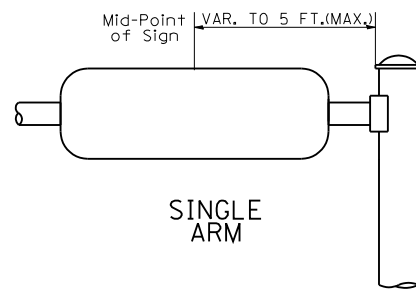
PARTS LISTING:
 SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
 SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
 BRACKETS PART #HPN034 (UNIVERSAL)
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

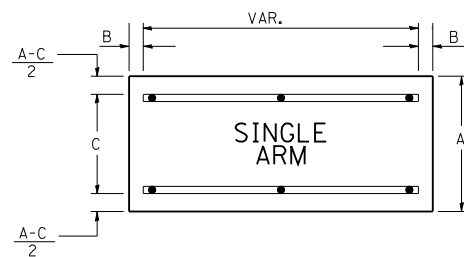
SUPPORTING CHANNELS



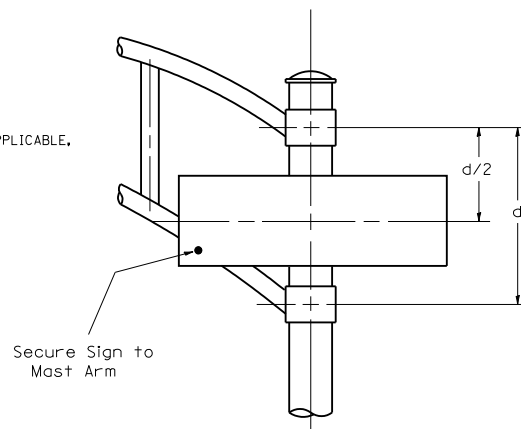
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	22"
30"	2"	22"



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
 Shall be used. See Note #5.

Upper Case To Lower Case
 Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2³ DENOTES 3/8"

SERIES	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ²	1 ⁴
B	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁶	1 ⁷
C E G	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
D O Q R	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
F	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²
H I M N	2 ⁰	2 ¹	2 ²	2 ⁴	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	2 ⁰	2 ¹
J U	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹
K L	1 ¹	1 ²	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
P	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
S	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
T	1 ¹	1 ²	1 ⁶	1 ⁷	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
V	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
Y	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁵	0 ⁷	0 ⁵	0 ⁶	0 ⁶	1 ⁰	1 ¹	1 ²
Z	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹

Lower Case To Lower Case
 Spacing Chart 6 Inch Series "C & D"

SERIES	SECOND LETTER															
	a c d e		b h i k l		f w		j		s t		v y		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
ad h g i j	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
l m n q u																
b f k o p s	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
c e	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
r	0 ⁶	1 ⁰	1 ²	1 ⁴	0 ⁶	1 ⁰	0 ³	0 ³	0 ⁵	0 ⁶	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰
t z	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
v y	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²
w	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
x	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴

Number To Number
 Spacing Chart 8 Inch Series "C & D"

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷
1	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁴	1 ⁵	2 ⁰	2 ¹
2 3 4	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁶	1 ⁷
5	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵
6	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
7	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁵	0 ⁵	0 ⁶	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴
8	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁴	1 ⁵

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES			SERIES	
	C	D	C	D		C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4

CDOT TRAFFIC SIGNALS SCHEDULE OF QUANTITIES

ITEM #	ITEM	UNIT	CUMBERLAND @ CATHERINE	CUMBERLAND @ BRYN MAWR	BRYN MAWR @ I-90 EB RAMP SPUR	CUMBERLAND @ CTA/I-90 EB RAMP	INTERCONNECT
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	200				
44000600	SIDEWALK REMOVAL	SQ FT	75				
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT		6	58		
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT		0		17	
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	242	210	110	390	844
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT					1045
87502710	TRAFFIC SIGNAL POST, ALUMINUM 17 FT.	EACH	3	2	3	7	
87900200	DRILL EXISTING HANDHOLE	EACH	18				2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5		3	8	
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7	4	3	10	
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH		2	1		
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH		2	1		
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH		4		3	
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH		4			
88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2				
88055165	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2				
88055170	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2				
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8	4	4	12	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1		1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT					252
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1		1	
89502380	REMOVE EXISTING HANDHOLE	EACH		4		5	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	8		10	
X0322689	POLE, STEEL, ANCHOR BASE, 10" DIA., 7-GAUGE, 34'-6"	EACH		2		1	
X0322690	POLE, STEEL, ANCHOR BASE, 10" DIA., 3-GAUGE, 34'-6"	EACH	3				
X0322713	FLASHING BEACON, BRACKET MOUNTED	EACH		2			
X0326451	VIDEO SYSTEM DETECTION CAMERA	EACH	2	4	1	5	
X0326968	JUNCTION BOX, POLE OR POST MOUNTED	EACH	8	8	5	12	
X8800101	PEDESTRIAN PUSH-BUTTON, SPECIAL	EACH	4	2	2	3	
Z0033050	COAXIAL CABLE IN CONDUIT	FOOT	347	965	244	915	
	ATC CONTROLLER, TRAFFIC, 16 LOAD BAY, "P" CABINET	EACH	1	1	1	1	
	COAXIAL JUMPER CABLE	EACH	1	1	1	1	
	CONCRETE FOUNDATION FOR TYPE "P" BASE MOUNTED TRAFFIC SIGNAL CONTROLLER	EACH	1	1	1	1	
	CONCRETE FOUNDATION, 20" DIAMETER, 3/4" ANCHOR RODS, 13" BOLT CIRCLE	FOOT	15	10	15	35	
	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE	FOOT	27	14		7	
	CONCRETE FOUNDATION, 30" DIAMETER, 1 1/2" ANCHOR RODS, 16 1/2" BOLT CIRCLE	FOOT	22	44	11	33	
	CONCRETE FOUNDATION, 30" DIAMETER, 1 1/4" ANCHOR RODS, 17 1/4" BOLT CIRCLE	FOOT			9	9	
	CUT OFF POLE AND INSTALL CAP	EACH	1				
	ELECTRIC CABLE IN CONDUIT NO. 14 19/C	FOOT	1141	1380	606	2161	
	ELECTRIC CABLE IN CONDUIT NO. 4 2/C	FOOT	188	243	101	45	
	ELECTRIC CABLE NO. 14 3/C, SHIELDED	FOOT	347	965	244	915	
	ELECTRICAL HANDHOLE, 30", 24" FRAME AND LID	EACH		0	1	2	1
	ELECTRICAL HANDHOLE, 36", 24" FRAME AND LID	EACH		4	1	4	
	ELECTRICAL MANHOLE, 3' X 4' X 4', 24" FRAME AND LID	EACH		1	1	1	
	FIBER OPTIC ADD-IN FOR LOCAL CONTROLLER	EACH		1			
	FIBER OPTIC ADD-IN FOR MASTER CONTROLLER	EACH				1	
	FIBER OPTIC HYBRID CABLE IN CONDUIT	FOOT					1045
	FIBER OPTIC STAR MODEM	EACH		1		1	
	HARNESS CABLE, #16, 8/C	FOOT	443	582	186	613	
	INTERFACE PANEL, 2 CAMERA	EACH	1		1		
	INTERFACE PANEL, 4 CAMERA	EACH		1			
	INTERFACE PANEL, 8 CAMERA	EACH				1	
	MAST ARM, STEEL, MONOTUBE 16 FT.	EACH	1				
	MAST ARM, STEEL, MONOTUBE 20 FT.	EACH	1				
	MAST ARM, STEEL, MONOTUBE 26 FT.	EACH	2				
	MAST ARM, STEEL, MONOTUBE 30 FT.	EACH			1	1	
	MAST ARM, STEEL, MONOTUBE 35 FT.	EACH	1		1		
	MAST ARM, STEEL, MONOTUBE 40 FT.	EACH		1	0	3	
	MAST ARM, STEEL, MONOTUBE 44 FT.	EACH	1	3			
	POLE, STEEL, ANCHOR BASE, 11" DIA., 3-GAUGE, 34'-6"	EACH			1	1	
	POLE, STEEL, ANCHOR BASE, 12-1/2" DIA. 3-GAUGE, 34'-6"	EACH	2	4	1	3	
	SERVICE INSTALLATION, 100 AMPERE	EACH		1	1		
	UNDERGROUND CONDUIT, PVC, 3" DIA. (SCHEDULE 80)	FOOT		1579	585	1588	0
	VIDEO CABLE HARNESS	EACH	2	4	1	5	
	VIDEO DETECTION CARD RACK, 4 CAMERA	EACH		1			
	VIDEO DETECTION CARD RACK, 8 CAMERA	EACH				1	
	VIDEO DETECTION POWER SUPPLY	EACH	1	1	1	1	
	VIDEO PROCESSOR CARD	EACH		1		1	
	VIDEO PROCESSOR CARD AND RACK	EACH	1		1		

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USER NAME =	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE =	CHECKED - CG	REVISED -
PLOT DATE =	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT TRAFFIC SIGNAL SCHEDULE OF QUANTITIES
CUMBERLAND AVENUE OVER I-90

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	199
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-40

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2/18/2013

PROPOSED	PRESENT	
		SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL OPTICALLY PROGRAMMED
		SIGNAL, PEDESTRIAN, DON'T WALK/WALK
		SIGNAL FACE ARROW, 12" COLOR AS NOTED
		SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
		PUSH BUTTON, PEDESTRIAN
		SIGN, ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
		MAST ARM, MONOTUBE, STEEL. SIZE AS INDICATED (SEE DWG. #870)
		MAST ARM, TRUSS, ALUMINUM. SIZE AS INDICATED
		CONTROLLER, TRAFFIC SIGNAL. PEDESTAL OR BASE MOUNTED AS INDICATED
		CONTROLLER, STREET LIGHTING. PEDESTAL OR BASE MOUNTED. (DWG. 876 or 880)
		CONTROLLER, STREET LIGHTING. POLE MOUNTED (DWG. #11940)
		POLE, WOOD. COMMONWEALTH EDISON COMPANY, SERVICE
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA. 10" DI A. AND 15" B.C. 24"X9' FND. W/1 1/4" ANCHOR RODS DRG. #818.
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA. 10" DIA. AND 15" B.C. 24"X9' FND. W/1 1/4" ANCHOR RODS DRG. #818 (16', 20' or 26' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 11" DIA. AND 17 1/4" B.C. 30"X9' FND. W/1 1/4" ANCHOR RODS DRG. #816. (30' M.A.)
		POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA. 12 1/2" DIA. AND 16 1/2" B.C. 30"X11' FND. W/1 1/2" ANCHOR RODS DRG. #817. (35', 40' or 44' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA. 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17 1/4" B.C. ON 30"X9' FND. W/ 1 1/4" ANCHOR RODS DRG. #816.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 7 GA. WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DWG. #719.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DWG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DWG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DWG. #753.
		POLE, CITY STEEL, ANCHR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DWG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C.-24"X7' WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"X7' WITH 1" ANCHOR RODS DWG. #691.
		POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', or 30' ON FND. WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
		COLUMN, ELEVATED STRUCTURE
		POLE, WOOD. (SIZE AS NOTED)
		POLE, FOUNDATION WITH ELBOWS AS INDICATED. (SIZE AS NOTED)
		TWIN ARM ORNAMENTAL LIGHTING LUMINAIRE H.P.S.V. & LAMP, (VARIOUS BY CONTRACTOR) DWG. #873
		SINGLE ORNAMENTAL LIGHTING LUMINAIRE H.P.S.V. & LAMP, (VARIOUS BY CONTRACTOR) DWG. #898 & 899

PROPOSED	PRESENT	
		HANDHOLE, HEAVY DUTY, 36" I.D. (DWG.#866)
		HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D. (#867)
		MANHOLE, CITY 3'X4'X4' DWG. #729 or 730; 4'X6'X6' DWG. #732 or 733.
		FOUNDATION, CONTROLLER OR PEDESTAL, 13" B.C., 20"X5' (DWG. #709)
		FOUNDATION, TRAFFIC CONTROLLER DWG. #854. F.A. TERMINAL FND. DWG. #11972
		FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
		FOUNDATION, CONTROLLER STREET LIGHT, SPECIAL, 100A & 200A. (DWG.#876 & # 880)
		FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG.# 583 & #891)
		CONTROLLER, UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
		MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL. BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO PARK DISTRICT; CTA=C.T.A; S= SEWER
		JUNCTION BOX, IN PAVEMENT (DWG. #815)
		DETECTOR LOOP IN PAVEMENT
		CONDUIT or P.V.C., NUMBER, SIZE & TYPE. (AS NOTED)
		CONDUIT or P.V.C. ENCASED IN CONCRETE. (SECTION or NUMBER OF CONDUIT INDICATED)
		CONDUIT UNDER PAVEMENT, (BY PAVT CONTRACTOR) 3"- LENGTH AS NOTED.
		LUMINAIRE, H.P.S.V. AND LAMP, 400W, 240V, WITH INTEGRAL BALLAST
		LUMINAIRE, H.P.S.V. AND LAMP, 310W, 240V, WITH INTEGRAL BALLAST
		LUMINAIRE, H.P.S.V. AND LAMP, 195W, 240V, WITH INTEGRAL BALLAST
		LUMINAIRE, H.P.S.V. AND LAMP, 150W, 240V, WITH INTEGRAL BALLAST
		LUMINAIRE, H.P.S.V. AND LAMP, 90W, 240V, WITH INTEGRAL BALLAST (ALLEY LIGHT).
		LUMINAIRE, INCANDESCENT AND LAMP, 300W, 240V.
		TERMINAL, CABINET F.A. & P.C.
		FIRE ALARM BOX, POLE MOUNTED
		FIRE ALARM BOX, POLE MOUNTED
		CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #4, 600 V. EPR. IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSRI. IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 10/C-#12 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 14/C-#14, 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 19/C-#12 600V, EPR IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
		CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
		WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
		WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
		CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
		WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
		CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
		DOWNLIGHT ASSEMBLY. (DWG. #850)
		LIGHT, TRAFFIC SAFETY ISLAND
		FLASHING BEACON & DOWNLIGHT

REVISIONS

NO.	DATE	DESCRIPTION
1	02/18/2013	ISSUED FOR BIDDING

STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING

CITY OF CHICAGO

826

USER NAME =	DESIGNED - GR	REVISED -
PLOT SCALE =	DRAWN - GR	REVISED -
PLOT DATE =	CHECKED - CG	REVISED -
	DATE - 2/18/2013	REVISED -



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CDOT STANDARD CODE FOR TRAFFIC SIGNALS/STREET LIGHTING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2746	1616B	COOK	404	200
CONTRACT NO. 60J14				
ILLINOIS FED. AID PROJECT				

TS-41