

62807

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	1

D-91-419-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 2004-068L

~~PROJECT: IM 094 3(307)057~~

59th ST TO 47th ST (FRONTAGE ROADS)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE
COOK COUNTY
C-91-292-04



LOCATION OF SECTION INDICATED THUS: —

INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND PROJECT COMMITMENTS
3-7	SUGGESTED CONSTRUCTION SCHEDULE
8	SUMMARY OF QUANTITIES
9-19	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
20-25	STREET LIGHTING UNDERGROUND CONDUIT FACILITIES
26-29	REMOVAL OF STREET LIGHTING EQUIPMENT
30-36	BOE STANDARD DETAILS
37	TEMPORARY INFORMATION SIGNING

IDOT HIGHWAY STANDARDS

STANDARD	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701701-04	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
702001-05	TRAFFIC CONTROL DEVICES

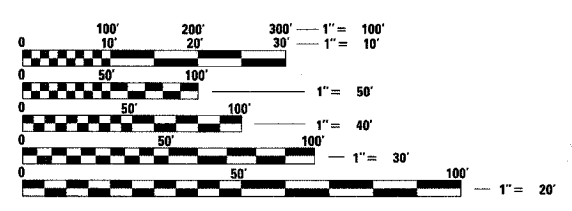
PROJECT LOCATED IN CITY OF CHICAGO

DESIGN DESIGNATION

WENTWORTH AVE: 6259 (20) URBAN COLLECTOR

ADT (2020)	DESIGN SPEED	POSTED SPEED
11,000	30	25

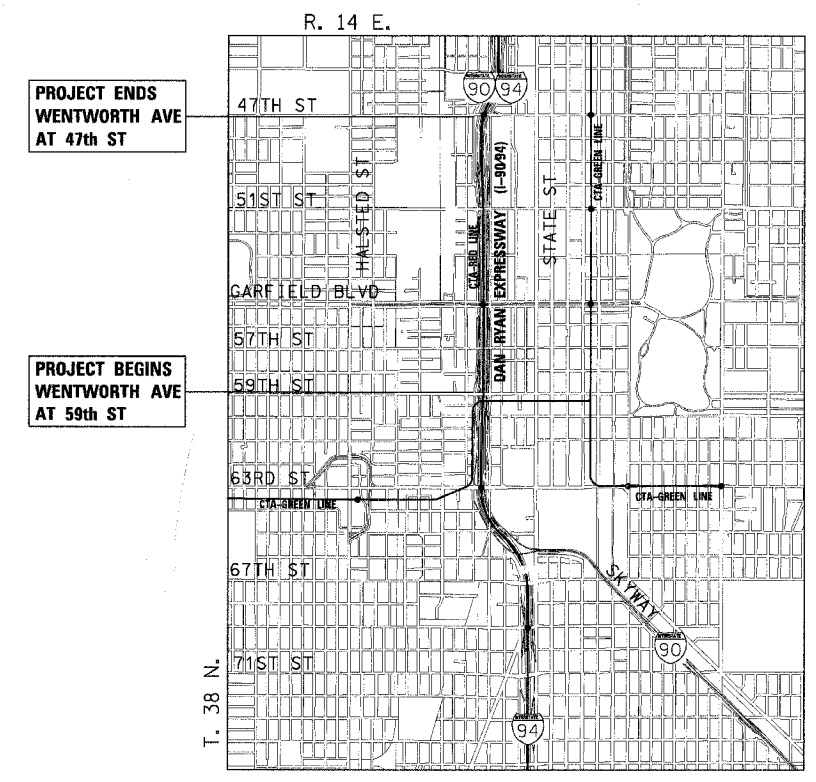
FRONTAGE ROADS:
WENTWORTH AVE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

DIGGER:
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

CONTRACT NO. 62807



LOCATION MAP

GROSS LENGTH OF PROJECT = 7920 FT (1.500 MILES)
NET LENGTH OF PROJECT = 7920 FT (1.500 MILES)

DISTRICT ONE DESIGN/CONSULTANT SERVICES PROJECT MANAGER
RAJENDRA SHAH (847) 705-4437

John A. Lukowski
JOHN A. LUKOWSKI
1-19
SHEET NOS.

11-30-05
EXPIRES
2-3-08
DATE

James P. Coleman
JAMES P. COLEMAN
20-29
SHEET NOS.

11-30-05
EXPIRES
02-02-2005
DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

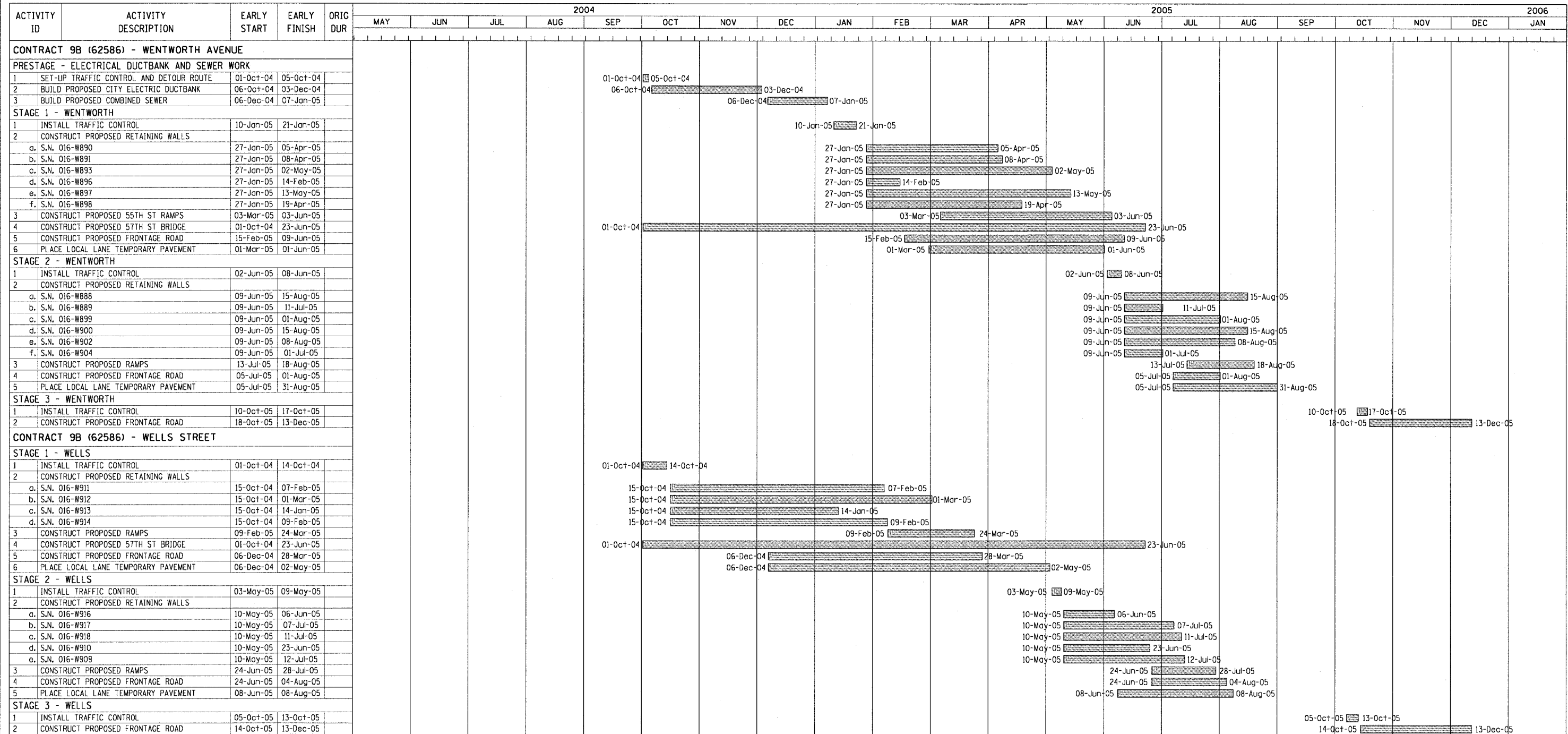
SUBMITTED *February 9, 20 05*
Dina O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 25, 20 05
Mike Nune
ENGINEER OF DESIGN AND ENVIRONMENT



March 25, 20 05
Victor Maden
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300



NOTE: DATES ASSOCIATED WITH WORK ITEMS MAY CHANGE BASED ON OTHER CONTRACTS AND/OR THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED DUE TO CHANGES OR EXTENSIONS IN THE SCHEDULE.

LEGEND:
 WORK PERFORMED IN CONTRACTS BY OTHERS
 WORK PERFORMED AS PART OF THIS CONTRACT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th ST TO 47th ST (FRONTAGE ROAD)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WENTWORTH AVENUE

SUGGESTED CONSTRUCTION SCHEDULE



SCALE: NONE
 DATE: February 11, 2005

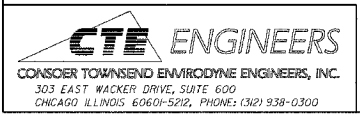
DRAWN BY: AMM
 CHECKED BY: JAL

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-06BL	COOK	37	4
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62807				

ACTIVITY ID	ACTIVITY DESCRIPTION	EARLY START	EARLY FINISH	ORIG DUR	2004												2005					2006
					JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
CONTRACT 9B1 (62795) - WELLS CONC. SIDEWALKS AND DRIVEWAYS																						
WELLS STREET																						
1	CONSTRUCT PCC SIDEWALKS AND DRIVEWAYS	24-Nov-05	28-Dec-05																	24-Nov-05	28-Dec-05	
CONTRACT 9B2 (62796) - WENTWORTH CONC. SIDEWALKS AND DRIVEWAYS																						
WENTWORTH AVENUE																						
1	CONSTRUCT PCC SIDEWALKS AND DRIVEWAYS	24-Nov-05	28-Dec-05																	24-Nov-05	28-Dec-05	
CONTRACT 9B3 (62797) - TEMPORARY CONC. BARRIER/SHOULDER/FENCE																						
WENTWORTH AVENUE																						
1	INSTALL TEMP. CONC. BARRIER/SHOULDER/FENCE	10-Jun-05	26-Oct-05																	10-Jun-05	26-Oct-05	
WELLS STREET																						
1	INSTALL TEMP. CONC. BARRIER/SHOULDER/FENCE	29-Mar-05	21-Sep-05																	29-Mar-05	21-Sep-05	
CONTRACT 9B4 (62798) - FRONTAGE ROAD SIGNING																						
WENTWORTH AVENUE																						
1	REMOVE EXISTING SIGNAGE	01-Oct-04	07-Oct-04																	01-Oct-04	07-Oct-04	
2	INSTALL NEW SIGNAGE/REINSTALL SIGNAGE	14-Dec-05	27-Dec-05																	14-Dec-05	27-Dec-05	
WELLS STREET																						
1	REMOVE EXISTING SIGNAGE	01-Oct-04	07-Oct-04																	01-Oct-04	07-Oct-04	
2	INSTALL NEW SIGNAGE/REINSTALL SIGNAGE	14-Dec-05	27-Dec-05																	14-Dec-05	27-Dec-05	
CONTRACT 9B5 (62799) - FRONTAGE ROAD PERMANENT PAVEMENT MARKING																						
STAGE 3 - WENTWORTH AVENUE																						
1	INSTALL PAVEMENT MARKING	14-Dec-05	27-Dec-05																	14-Dec-05	27-Dec-05	
STAGE 3 - WELLS STREET																						
1	INSTALL PAVEMENT MARKING	14-Dec-05	27-Dec-05																	14-Dec-05	27-Dec-05	
CONTRACT 9B6 (62800) - TREE REMOVAL																						
PRESTAGE - WENTWORTH AVENUE																						
1	REMOVE EMBANKMENT TREES	01-Oct-04	14-Oct-04																	01-Oct-04	14-Oct-04	
STAGE 3 - WELLS STREET																						
1	REMOVE EMBANKMENT TREES	01-Oct-04	14-Oct-04																	01-Oct-04	14-Oct-04	
CONTRACT 9B7 (62801) - 57TH STREET TRAFFIC SIGNALS																						
WENTWORTH AVENUE / WELLS STREET																						
1	REMOVE EXISTING TRAFFIC SIGNALS AND INSTALL NEW TRAFFIC SIGNALS	06-Oct-04	15-Nov-05																	06-Oct-04	15-Nov-05	
WENTWORTH AVENUE / WELLS STREET / 57TH STREET BRIDGE																						
1	REMOVE EXISTING LIGHTING AND INSTALL NEW LIGHTING	06-Oct-04	15-Nov-05																	06-Oct-04	15-Nov-05	
CONTRACT 9B8 (62802) - 55TH STREET TRAFFIC SIGNALS																						
WENTWORTH AVENUE / WELLS STREET																						
1	REMOVE EXISTING TRAFFIC SIGNALS AND INSTALL NEW TRAFFIC SIGNALS	02-Mar-05	23-Nov-05																	02-Mar-05	23-Nov-05	
WENTWORTH AVENUE / WELLS STREET																						
1	REMOVE EXISTING LIGHTING AND INSTALL NEW LIGHTING	02-Mar-05	23-Nov-05																	02-Mar-05	23-Nov-05	
CONTRACT 9B9 (62803) - 51ST STREET TRAFFIC SIGNALS																						
WENTWORTH AVENUE / WELLS STREET																						
1	REMOVE EXISTING TRAFFIC SIGNALS AND INSTALL NEW TRAFFIC SIGNALS	12-Jul-05	14-Nov-05																	12-Jul-05	14-Nov-05	
WENTWORTH AVENUE / WELLS STREET																						
1	REMOVE EXISTING LIGHTING AND INSTALL NEW LIGHTING	12-Jul-05	14-Nov-05																	12-Jul-05	14-Nov-05	
CONTRACT 9B10 (62804) - 47TH STREET TRAFFIC SIGNALS																						
WENTWORTH AVENUE / WELLS STREET																						
1	REMOVE EXISTING TRAFFIC SIGNALS AND INSTALL NEW TRAFFIC SIGNALS	17-May-05	10-Nov-05																	17-May-05	10-Nov-05	
WENTWORTH AVENUE / WELLS STREET																						
1	REMOVE EXISTING LIGHTING AND INSTALL NEW LIGHTING	17-May-05	10-Nov-05																	17-May-05	10-Nov-05	

NOTE: DATES ASSOCIATED WITH WORK ITEMS MAY CHANGE BASED ON OTHER CONTRACTS AND/OR THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED DUE TO CHANGES OR EXTENSIONS IN THE SCHEDULE.

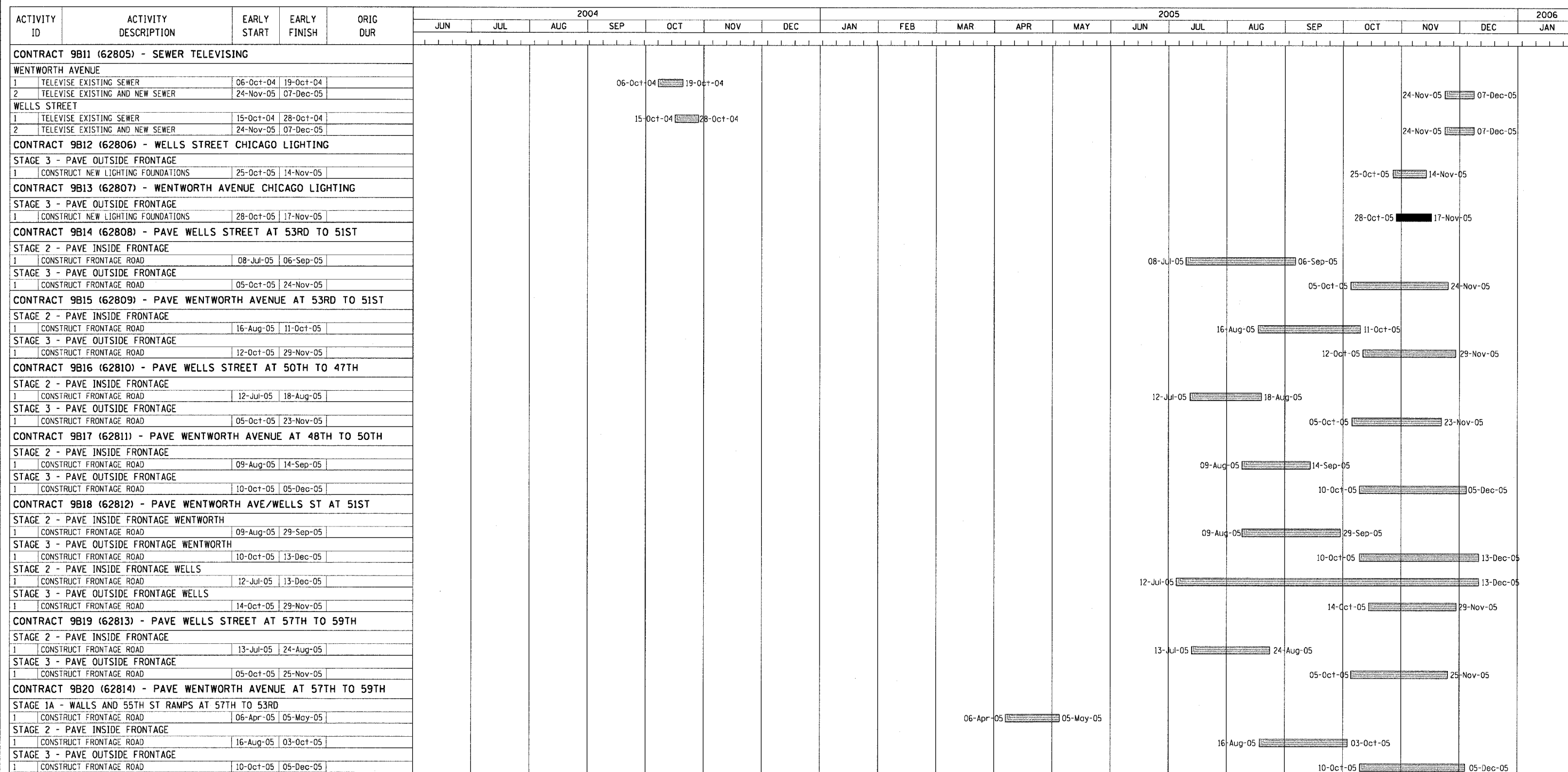
LEGEND:
 WORK PERFORMED IN CONTRACTS BY OTHERS
 WORK PERFORMED AS PART OF THIS CONTRACT





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th ST TO 47th ST (FRONTAGE ROAD)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WENTWORTH AVENUE
 SUGGESTED CONSTRUCTION SCHEDULE
 SCALE: NONE DRAWN BY: AMM
 DATE: February 11, 2005 CHECKED BY: JAL

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NOTE: DATES ASSOCIATED WITH WORK ITEMS MAY CHANGE BASED ON OTHER CONTRACTS AND/OR THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED DUE TO CHANGES OR EXTENSIONS IN THE SCHEDULE.

LEGEND:
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 WENTWORTH AVENUE

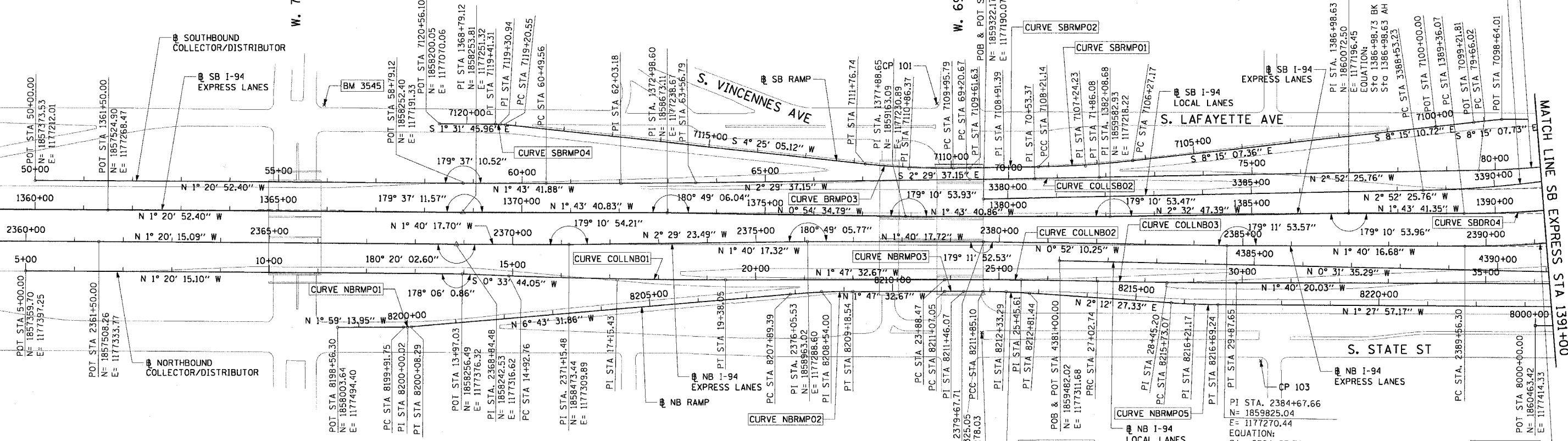
SUGGESTED CONSTRUCTION SCHEDULE

SCALE: NONE
 DATE: February 11, 2005

DRAWN BY: AMM
 CHECKED BY: JAL

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CURVE COLLNBO1	CURVE COLLNBO2	CURVE COLLNBO3	CURVE COLLSBO1	CURVE COLLSBO2	CURVE COLLSBO3	CURVE SBRMPO1	CURVE SBRMPO2	CURVE SBRMPO3	CURVE SBRMPO4
P.I. STA= 17+15.43 N= 1,858,574.87 E= 1,177,378.55 Δ= 2° 07' 33" D= 0° 28' 38" R= 12,000.00' T= 222.67' L= 445.29 E= 2.06' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 14+92.76 N= 1,858,352.21 E= 1,177,377.25 P.T. STA= 19+38.05 N= 1,858,797.43 E= 1,177,371.58	P.I. STA= 25+45.61 N= 1,859,404.70 E= 1,177,352.58 Δ= 1° 17' 10" D= 0° 24' 33" R= 14,000.00' T= 157.14' L= 314.27 E= 0.88' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 23+88.47 N= 1,859,247.63 E= 1,177,357.49 P.T. STA= 27+02.74 N= 1,859,561.83 E= 1,177,351.19	P.I. STA= 28+45.20 N= 1,859,704.28 E= 1,177,349.93 Δ= 1° 09' 57" D= 0° 24' 33" R= 14,000.00' T= 142.45' L= 284.90 E= 0.72' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 27+02.74 N= 1,859,561.83 E= 1,177,351.19 P.T. STA= 29+87.65 N= 1,859,846.68 E= 1,177,345.77	P.I. STA= 62+03.18 N= 1,858,576.31 E= 1,177,181.55 Δ= 0° 45' 55" D= 0° 14' 56" R= 23,000.00' T= 153.61' L= 307.23 E= 0.51' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 60+49.56 N= 1,858,422.76 E= 1,177,186.16 P.T. STA= 63+56.79 N= 1,858,729.78 E= 1,177,174.87	P.I. STA= 70+53.37 N= 1,859,425.70 E= 1,177,144.56 Δ= 0° 22' 48" D= 0° 14' 56" R= 40,000.00' T= 132.70' L= 275.46 E= 0.22' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 69+20.67 N= 1,859,293.13 E= 1,177,150.34 P.T. STA= 71+86.08 N= 1,859,558.24 E= 1,177,137.91	P.I. STA= 81+04.03 N= 1,860,475.04 E= 1,177,091.89 Δ= 8° 56' 14" D= 0° 14' 56" R= 1,766.00' T= 138.01' L= 265.46 E= 5.38' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 79+66.02 N= 1,860,337.20 E= 1,177,098.81 P.T. STA= 82+41.49 N= 1,860,610.14 E= 1,177,063.64	P.I. STA= 7107+24.23 N= 1,859,529.38 E= 1,177,115.44 Δ= 5° 33' 25" D= 2° 51' 53" R= 2,000.00' T= 97.06' L= 275.46 E= 2.35' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7106+27.17 N= 1,859,625.44 E= 1,177,101.51 P.T. STA= 7108+21.14 N= 1,859,432.42 E= 1,177,120.01	P.I. STA= 7108+91.39 N= 1,859,362.26 E= 1,177,123.31 Δ= 0° 12' 05" D= 0° 08' 36" R= 39,975.44' T= 70.24' L= 140.48 E= 0.06' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7108+21.14 N= 1,859,432.42 E= 1,177,120.01 P.T. STA= 7109+61.63 N= 1,859,292.09 E= 1,177,126.36	P.I. STA= 7110+86.37 N= 1,859,167.46 E= 1,177,131.79 Δ= 6° 54' 42" D= 3° 49' 11" R= 2,000.00' T= 90.58' L= 180.95 E= 2.73' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7109+95.79 N= 1,859,257.95 E= 1,177,127.85 P.T. STA= 7111+76.74 N= 1,859,077.14 E= 1,177,124.81	P.I. STA= 7119+30.94 N= 1,858,325.18 E= 1,177,066.71 Δ= 5° 56' 51" D= 28° 38' 52" R= 200.00' T= 10.39' L= 20.76 E= 0.27' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7119+20.55 N= 1,858,335.54 E= 1,177,067.52 P.T. STA= 7119+41.31 N= 1,858,314.79 E= 1,177,066.99



BENCH MARK NO. 3528 ELEV. 16.20 DESCRIPTION: CROSS CUT ON NORTHWESTERLY BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 45TH ST AND WENTWORTH AVE	BENCH MARK NO. 3530 ELEV. 18.18 DESCRIPTION: CROSS CUT ON SOUTHEAST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 51ST ST AND WELLS ST	BENCH MARK NO. 3531 ELEV. 17.55 DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF GARFIELD BLVD AND WELLS ST	BENCH MARK NO. 3532 ELEV. 18.84 DESCRIPTION: HORIZONTAL BOLT ON CTA "EL" STRUCTURE, EAST SIDE OF WELLS ST ABOUT 50 FEET NORTH OF 59TH PL.	BENCH MARK NO. 3533 ELEV. 19.71 DESCRIPTION: BRASS DISK (CTA MONUMENT) AT THE SOUTHWEST CORNER OF 63RD ST AND HARVARD ST
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BENCH MARK NO. 3535 ELEV. 19.31 DESCRIPTION: FOUND CROSS CUT ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 59TH ST AND WENTWORTH AVE	BENCH MARK NO. 3536 ELEV. 18.37 DESCRIPTION: CROSS CUT ON SOUTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF GARFIELD BLVD AND WENTWORTH AVE	BENCH MARK NO. 3537 ELEV. 17.71 DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 51ST ST AND WENTWORTH AVE	BENCH MARK NO. 3538 ELEV. 17.31 DESCRIPTION: CROSS CUT ON EASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 47TH ST AND LASALLE ST	BENCH MARK NO. 3544 ELEV. 19.38 DESCRIPTION: CROSS CUT ON WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 67TH ST AND LAFAYETTE AVE
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CURVE NBRMPO1 P.I. STA= 8200+00.02 N= 1,858,147.27 E= 1,177,489.42 Δ= 4° 44' 18" D= 28° 38' 52" R= 200.00' T= 8.27' L= 16.54 E= 0.17' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8199+91.75 N= 1,858,139.01 E= 1,177,489.70 P.T. STA= 8200+08.29 N= 1,858,155.49 E= 1,177,488.45	CURVE NBRMPO2 P.I. STA= 8208+54.00 N= 1,858,995.39 E= 1,177,389.40 Δ= 4° 55' 59" D= 3° 49' 11" R= 1,500.00' T= 64.61' L= 129.15 E= 1.39' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8207+89.39 N= 1,858,931.22 E= 1,177,396.97 P.T. STA= 8209+18.54 N= 1,859,059.97 E= 1,177,387.38	CURVE NBRMPO3 P.I. STA= 8211+46.07 N= 1,859,287.39 E= 1,177,380.27 Δ= 0° 19' 12" D= 0° 24' 36" R= 13,976.00' T= 39.03' L= 78.05 E= 0.05' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8211+07.05 N= 1,859,248.39 E= 1,177,381.49 P.T. STA= 8211+85.10 N= 1,859,326.41 E= 1,177,379.26	CURVE NBRMPO4 P.I. STA= 8212+33.29 N= 1,859,374.58 E= 1,177,378.02 Δ= 3° 40' 48" D= 3° 49' 11" R= 1,500.00' T= 48.10' L= 96.17' E= 0.77' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8215+73.07 N= 1,859,714.14 E= 1,177,391.11 P.T. STA= 8216+69.24 N= 1,859,810.29 E= 1,177,391.74	CURVE NBRMPO5 P.I. STA= 8216+21.17 N= 1,859,762.21 E= 1,177,392.97 Δ= 3° 40' 25" D= 3° 49' 11" R= 1,500.00' T= 48.10' L= 96.17' E= 0.77' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8215+73.07 N= 1,859,714.14 E= 1,177,391.11 P.T. STA= 8216+69.24 N= 1,859,810.29 E= 1,177,391.74
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CURVE SBLOCSO1 P.I. STA= 3391+35.61 N= 1,860,506.29 E= 1,177,130.62 Δ= 15° 38' 54" D= 2° 47' 17" R= 2,055.00' T= 282.39' L= 561.26' E= 19.31' e= 5.52' T.R.= 41' S.E. RUN= 196'	CURVE SBLOCSO2 P.I. STA= 3391+35.61 N= 1,860,506.29 E= 1,177,130.62 Δ= 15° 38' 54" D= 2° 47' 17" R= 2,055.00' T= 282.39' L= 561.26' E= 19.31' e= 5.52' T.R.= 41' S.E. RUN= 196'
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NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE
ALIGNMENT PLAN
SCALE: 1"=100'
DATE: February 11, 2005
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



F.A.I. SECTION COUNTY TOTAL SHEET SHEET NO.
 90/94 2004-068L COOK 37 9
 STA. TO STA.
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 62807
 MATCH LINE SB EXPRESS STA 1391+00
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	10
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	62807	

CURVE LAFAYO1
P.I. STA= 6014+47.81
N= 1,860,720.67
E= 1,176,979.33
Δ= 22° 19' 50"
D= 11° 09' 07"
R= 513.76'
T= 101.40'
L= 200.23'
E= 9.91'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6013+46.41
N= 1,860,619.35
E= 1,176,983.37
P.T. STA= 6015+46.64
N= 1,860,812.86
E= 1,176,937.10

CURVE LAFAYO2
P.I. STA= 6020+11.56
N= 1,861,233.77
E= 1,176,739.65
Δ= 66° 24' 16"
D= 50° 15' 34"
R= 114.00'
T= 74.60'
L= 132.12'
E= 22.24'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6019+36.96
N= 1,861,166.23
E= 1,176,771.34
P.T. STA= 6020+69.08
N= 1,861,231.77
E= 1,176,665.07

CURVE COLLNBO4
P.I. STA= 41+08.35
N= 1,860,967.08
E= 1,177,322.03
Δ= 29° 07' 47"
D= 3° 19' 24"
R= 1,724.00'
T= 447.94'
L= 876.49'
E= 57.24'
e= 5.9%
T.R.= 41'
S.E. RUN= 210' (236.93')
P.C. STA= 36+60.41
N= 1,860,519.16
E= 1,177,326.14
P.T. STA= 45+36.91
N= 1,861,356.34
E= 1,177,100.39

CURVE COLLNBO3
P.I. STA= 81+04.03
N= 1,860,475.04
E= 1,177,091.89
Δ= 8° 56' 14"
D= 3° 14' 39"
R= 1,766.00'
T= 138.01'
L= 275.46'
E= 5.38'
e= 5.63%
T.R.= N/A
S.E. RUN= 200.00'
P.C. STA= 79+66.02
N= 1,860,337.20
E= 1,177,098.81
P.T. STA= 82+41.49
N= 1,860,610.14
E= 1,177,063.64

CURVE COLLNBO4
P.I. STA= 83+22.94
N= 1,860,689.19
E= 1,177,044.03
Δ= 4° 35' 34"
D= 2° 49' 15"
R= 2,031.00'
T= 81.44'
L= 162.81'
E= 1.63'
e= 5.5%
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 82+41.49
N= 1,860,610.14
E= 1,177,063.64
P.T. STA= 84+04.30
N= 1,860,766.42
E= 1,177,018.16

CURVE COLLNBO5
P.I. STA= 86+99.51
N= 1,861,046.34
E= 1,176,924.37
Δ= 20° 54' 28"
D= 3° 34' 51"
R= 1,600.00'
T= 295.21'
L= 583.86'
E= 27.00'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 84+04.30
N= 1,860,766.42
E= 1,177,018.16
P.T. STA= 89+88.16
N= 1,861,274.37
E= 1,176,736.87

CURVE NBLOCO1
P.I. STA= 4398+91.75
N= 1,861,273.69
E= 1,177,295.21
Δ= 47° 52' 53"
D= 3° 22' 13"
R= 1700.00'
T= 754.78'
L= 1420.67'
E= 160.03'
e= 5.9%
T.R.= 41'
S.E. RUN= 210' (236.93')
P.C. STA= 4391+36.97
N= 1,860,518.94
E= 1,177,302.15
P.T. STA= 4405+57.64
N= 1,861,774.74
E= 1,176,730.72

CURVE NBDRO3
P.I. STA= 2398+13.58
N= 1,861,170.38
E= 1,177,231.19
Δ= 44° 36' 17"
D= 2° 44' 29"
R= 2090.00'
T= 857.27'
L= 1627.06'
E= 168.99'
e= 5.5%
T.R.= 41' (41')
S.E. RUN= 196' (274.66')
P.C. STA= 2389+56.30
N= 1,860,313.48
E= 1,177,256.19
P.T. STA= 2405+83.37
N= 1,861,762.92
E= 1,176,611.65

CURVE WBSKYLO1
P.I. STA= 6057+27.06
N= 1,861,427.27
E= 1,177,209.11
Δ= 41° 36' 43"
D= 6° 17' 09"
R= 911.50'
T= 346.35'
L= 661.99'
E= 63.59'
e= 6.0%
T.R.= N/A
S.E. RUN= 129' (129')
P.C. STA= 6053+80.71
N= 1,861,427.39
E= 1,177,555.47
P.T. STA= 6060+42.70
N= 1,861,657.19
E= 1,176,950.08

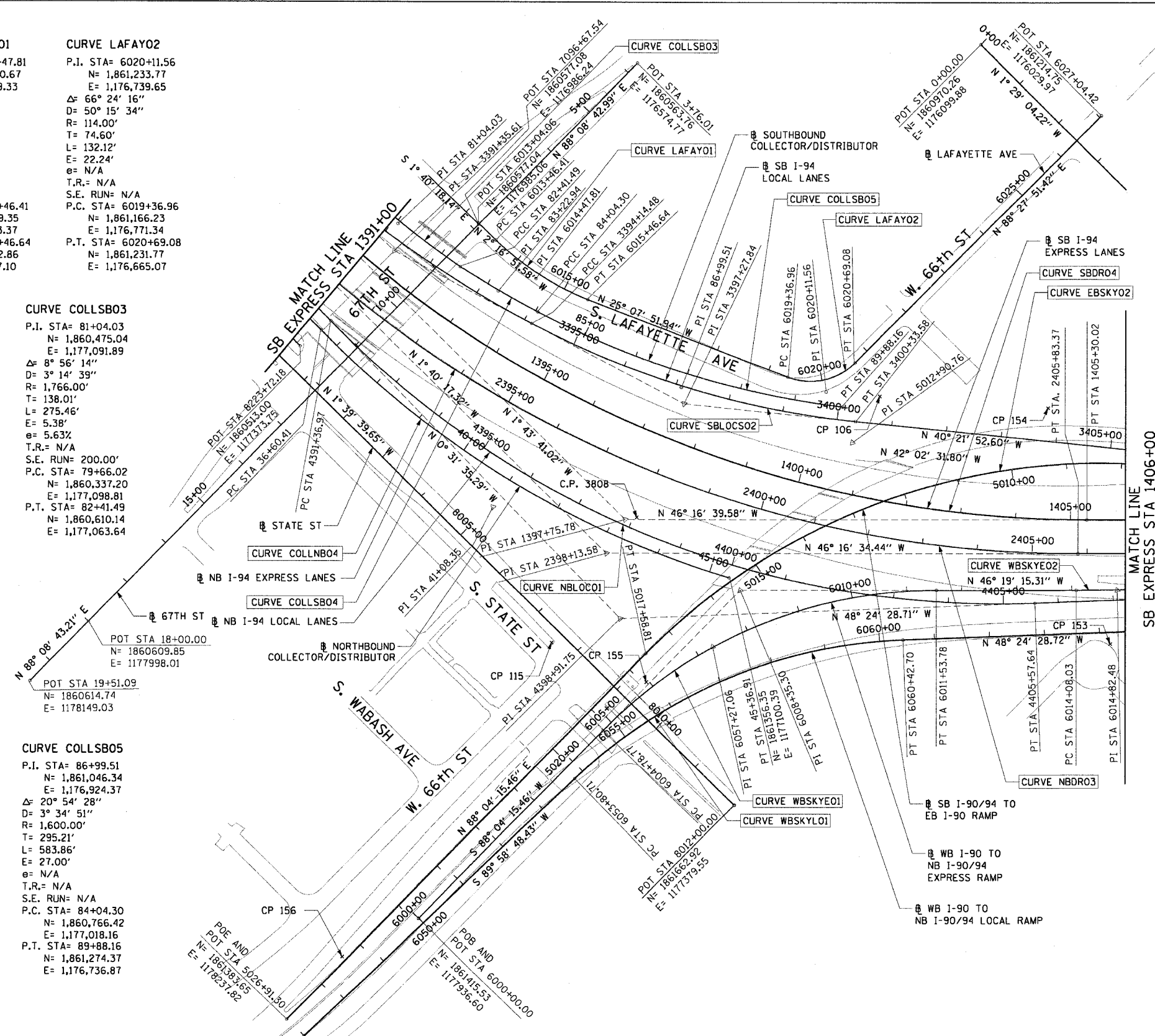
CURVE WBSKYEO1
P.I. STA= 6008+35.30
N= 1,861,387.41
E= 1,177,101.77
Δ= 45° 36' 29"
D= 6° 45' 24"
R= 848.00'
T= 356.54'
L= 675.02'
E= 71.90'
e= 6.0%
T.R.= N/A
S.E. RUN= 96' (179.23')
P.C. STA= 6004+78.77
N= 1,861,399.41
E= 1,177,458.10
P.T. STA= 6011+53.78
N= 1,861,633.64
E= 1,176,843.91

CURVE WBSKYEO2
P.I. STA= 6014+82.48
N= 1,861,860.65
E= 1,176,606.19
Δ= 2° 30' 00"
D= 1° 40' 45"
R= 3412.00'
T= 74.45'
L= 148.88'
E= 0.81'
e= 3.1%
T.R.= N/A
S.E. RUN= 138.58' (80.76')
P.C. STA= 6014+08.03
N= 1,861,809.23
E= 1,176,660.04
P.T. STA= 6015+56.91
N= 1,861,909.67
E= 1,176,550.16

CURVE SBLOCSO2
P.I. STA= 3397+27.84
N= 1,861,071.17
E= 1,176,941.37
Δ= 21° 50' 32"
D= 3° 31' 41"
R= 1624.00'
T= 313.36'
L= 619.10'
E= 29.96'
e= 6.0%
T.R.= 41'
S.E. RUN= 213'
P.C. STA= 3394+14.48
N= 1,860,774.05
E= 1,177,040.92
P.T. STA= 3400+33.58
N= 1,861,309.93
E= 1,176,738.43

CURVE EBSKYO2
P.I. STA= 5012+90.76
N= 1,861,334.19
E= 1,176,769.43
Δ= 49° 53' 13"
D= 4° 57' 54"
R= 1154.00'
T= 536.73'
L= 1004.78'
E= 118.71'
e= 5.6%
T.R.= 48' (96')
S.E. RUN= 135' (135')
P.C. STA= 5007+54.03
N= 1,861,732.80
E= 1,176,409.99
P.T. STA= 5017+58.81
N= 1,861,352.26
E= 1,177,305.85

CURVE SBDRO4
P.I. STA= 1397+75.78
N= 1,861,149.16
E= 1,177,163.97
Δ= 44° 32' 59"
D= 2° 47' 42"
R= 2050.00'
T= 839.71'
L= 1593.95'
E= 165.31'
e= 5.5%
T.R.= 96'
S.E. RUN= 226' (244.83')
P.C. STA= 1389+36.07
N= 1,860,309.83
E= 1,177,189.29
P.T. STA= 1405+30.02
N= 1,861,729.54
E= 1,176,557.11



- NOTES:**
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005

DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



02/02/2005 09:09:00 AM
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F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	COOK	37	11
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
62807			

CURVE EKWELLO1
P.I. STA= 9+04.39
N= 1,861,874.35
E= 1,176,076.45
Δ= 10° 52' 16"
D= 5° 40' 05"
R= 1,010.83'
T= 96.18'
L= 191.79'
E= 4.56'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8+08.21
N= 1,861,778.19
E= 1,176,078.94
P.T. STA= 10+00.00
N= 1,861,968.30
E= 1,176,055.87

CURVE EKWELLO2
P.I. STA= 10+99.36
N= 1,862,065.35
E= 1,176,034.61
Δ= 23° 41' 58"
D= 21° 47' 07"
R= 263.00'
T= 55.18'
L= 108.78'
E= 4.56'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 10+44.17
N= 1,862,011.45
E= 1,176,002.13
P.T. STA= 11+52.96
N= 1,862,109.97
E= 1,176,002.13

CURVE EKWELLO3
P.I. STA= 12+18.75
N= 1,862,163.15
E= 1,175,963.41
Δ= 2° 58' 46"
D= 2° 15' 54"
R= 2,529.60'
T= 65.78'
L= 131.54'
E= 0.85'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 11+52.96
N= 1,862,109.97
E= 1,176,002.13
P.T. STA= 12+84.51
N= 1,862,218.28
E= 1,175,927.50

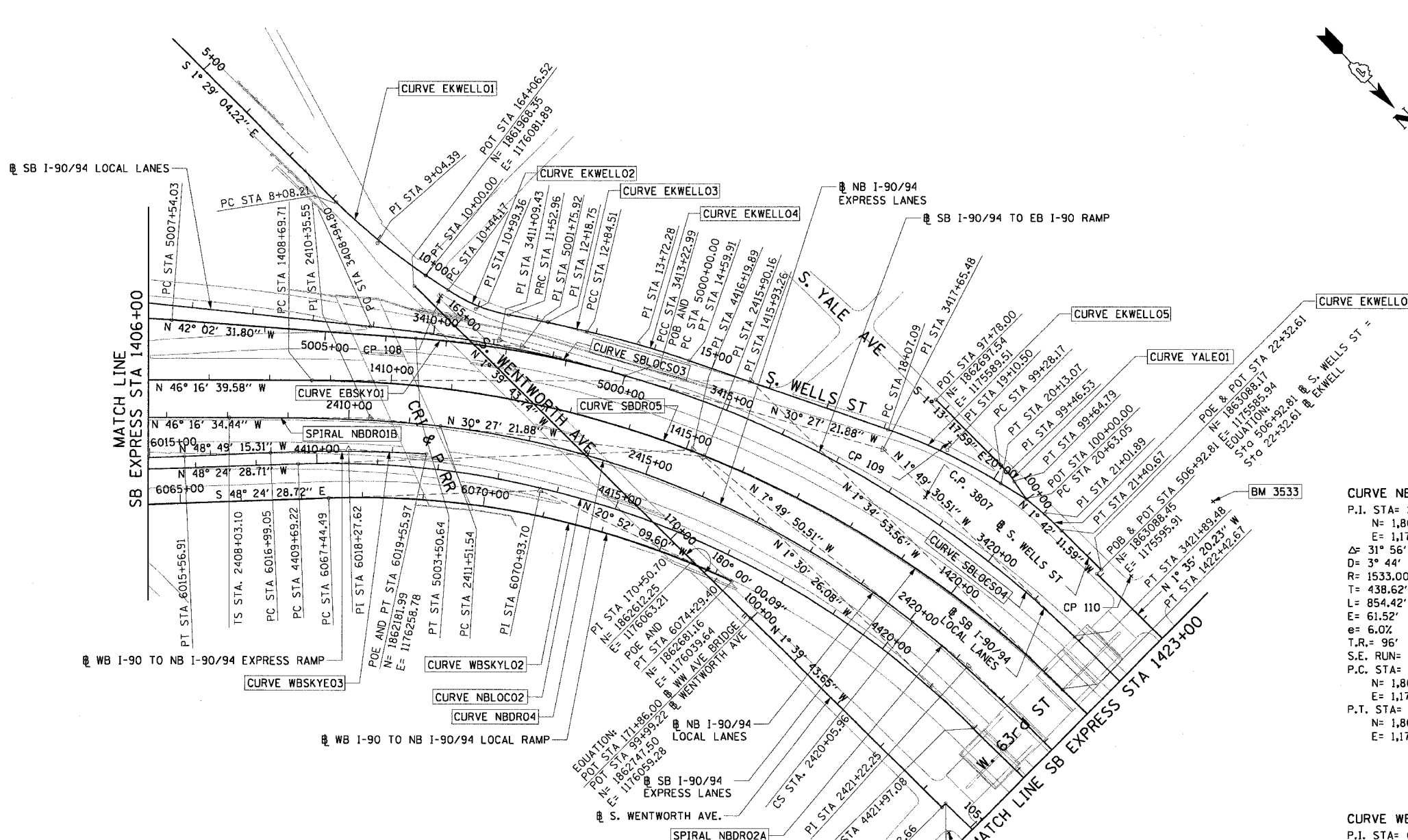
CURVE EKWELLO4
P.I. STA= 13+72.28
N= 1,862,291.83
E= 1,175,879.60
Δ= 5° 48' 38"
D= 3° 18' 45"
R= 1,729.58'
T= 87.77'
L= 175.40'
E= 2.22'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 12+84.51
N= 1,862,218.28
E= 1,175,927.50
P.T. STA= 14+59.61
N= 1,862,369.86
E= 1,175,839.39

CURVE EKWELLO5
P.I. STA= 19+10.50
N= 1,862,770.39
E= 1,175,632.97
Δ= 12° 45' 31"
D= 6° 11' 38"
R= 925.00'
T= 103.41'
L= 205.97'
E= 5.76'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 18+07.09
N= 1,862,678.46
E= 1,175,680.34
P.T. STA= 20+13.07
N= 1,862,870.51
E= 1,175,607.06

CURVE EKWELLO6
P.I. STA= 21+01.89
N= 1,862,957.45
E= 1,175,589.82
Δ= 5° 16' 59"
D= 6° 48' 23"
R= 841.78'
T= 38.83'
L= 77.62'
E= 0.89'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 20+63.05
N= 1,862,918.90
E= 1,175,594.54
P.T. STA= 21+40.67
N= 1,862,996.27
E= 1,175,588.66

SPIRAL NBDRO1B
P.I. STA= 2410+35.55
N= 1,862,075.46
E= 1,176,284.87
Δ= 6° 30' 41"
LS= 348.44'
YS= 13.19'
XS= 347.99'
P= 3.30'
K= 174.15'
LT= 232.45'
ST= 116.29'
LC= 348.24'
T.S. STA= 2408+03.10
N= 1,861,914.79
E= 1,176,452.86
S.C. STA= 2411+51.54
N= 1,862,164.85
E= 1,176,210.49

CURVE EBSKY01
P.I. STA= 5001+75.92
N= 1,862,163.03
E= 1,176,022.04
Δ= 11° 35' 10"
D= 3° 18' 15"
R= 1734.00'
T= 175.92'
L= 350.64'
E= 8.90'
e= 5.6%
T.R.= 41' (96')
S.E. RUN= 135'
P.C. STA= 5000+00.00
N= 1,862,314.67
E= 1,176,932.87
P.T. STA= 5003+50.64
N= 1,862,032.38
E= 1,176,139.85



CURVE SBLOCS03
P.I. STA= 3411+09.43
N= 1,862,129.66
E= 1,175,041.66
Δ= 9° 54' 30"
D= 2° 18' 51"
R= 2476.00'
T= 214.63'
L= 1372.97'
E= 9.29'
e= 5.0%
T.R.= 41'
S.E. RUN= 205'
P.C. STA= 3408+94.80
N= 1,861,966.12
E= 1,176,180.66
P.T. STA= 3413+22.99
N= 1,862,314.67
E= 1,175,932.87

CURVE SBDR05
P.I. STA= 1415+93.26
N= 1,862,464.42
E= 1,175,788.71
Δ= 44° 41' 46"
D= 3° 15' 20"
R= 1760.00'
T= 1734.00'
L= 1372.97'
E= 142.93'
e= 5.9%
T.R.= 41' (41')
S.E. RUN= 262.17' (242')
P.C. STA= 1408+69.71
N= 1,861,964.32
E= 1,176,311.62
P.T. STA= 1422+42.67
N= 1,863,187.69
E= 1,175,768.74

CURVE SBLOCS04
P.I. STA= 3417+65.48
N= 1,862,696.11
E= 1,175,708.58
Δ= 28° 37' 52"
D= 3° 18' 15"
R= 1734.00'
T= 442.49'
L= 866.49'
E= 55.57'
e= 5.9%
T.R.= (41')
S.E. RUN= (242')
P.C. STA= 3413+22.99
N= 1,862,314.67
E= 1,175,932.87
P.T. STA= 3421+89.48
N= 1,863,138.37
E= 1,175,694.49

CURVE WBSKYE03
P.I. STA= 6018+27.62
N= 1,862,087.91
E= 1,176,346.40
Δ= 5° 51' 27"
D= 2° 16' 48"
R= 2513.00'
T= 128.57'
L= 256.91'
E= 3.29'
e= 6.0%
T.R.= N/A
S.E. RUN= 156.14' (145')
P.C. STA= 6016+99.05
N= 1,862,003.26
E= 1,176,443.17
P.T. STA= 6019+55.97
N= 1,862,181.99
E= 1,176,258.78

CURVE NBLOC02
P.I. STA= 4416+19.89
N= 1,862,479.88
E= 1,175,936.27
Δ= 46° 54' 02"
D= 3° 49' 11"
R= 1500.00'
T= 650.67'
L= 1227.85'
E= 135.05'
e= 6.0%
T.R.= 41' (96')
S.E. RUN= 277.55' (246')
P.C. STA= 4409+69.22
N= 1,862,047.95
E= 1,176,422.90
P.T. STA= 4421+97.08
N= 1,863,130.33
E= 1,175,919.15

CURVE NBDRO4
P.I. STA= 2415+90.16
N= 1,862,502.01
E= 1,175,929.93
Δ= 31° 56' 02"
D= 3° 44' 15"
R= 1533.00'
T= 438.62'
L= 854.42'
E= 61.52'
e= 6.0%
T.R.= 96'
S.E. RUN= 246'
P.C. STA= 2411+51.54
N= 1,862,164.85
E= 1,176,210.49
P.T. STA= 2420+05.96
N= 1,862,936.54
E= 1,175,870.16

SPIRAL NBDRO2A
P.I. STA= 2421+22.25
N= 1,863,051.74
E= 1,175,854.32
Δ= 6° 30' 41"
LS= 348.44'
YS= 13.19'
XS= 347.99'
P= 3.30'
K= 174.15'
LT= 232.45'
ST= 116.29'
LC= 348.24'
C.S. STA= 2420+05.96
N= 1,862,936.54
E= 1,175,870.16
S.T. STA= 2423+54.40
N= 1,863,284.13
E= 1,175,848.97

CURVE WBSKY02
P.I. STA= 6070+93.70
N= 1,862,354.86
E= 1,176,164.04
Δ= 27° 32' 19"
D= 4° 01' 15"
R= 1425.00'
T= 349.20'
L= 684.91'
E= 42.16'
e= 6.0%
T.R.= N/A
S.E. RUN= 129'
P.C. STA= 6067+44.49
N= 1,862,123.05
E= 1,176,425.21
P.T. STA= 6074+29.40
N= 1,862,681.16
E= 1,176,039.64

CURVE YALE01
P.I. STA= 99+46.53
N= 1,862,866.03
E= 1,175,585.91
Δ= 10° 29' 32"
D= 28° 38' 52"
R= 200.00'
T= 18.36'
L= 36.62'
E= 0.84'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 99+28.17
N= 1,862,847.67
E= 1,175,586.30
P.T. STA= 99+64.79
N= 1,862,884.15
E= 1,175,588.87

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS

- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.



02/02/2005 09:05:01 AM

CURVE SBAUX1
 P.I. STA= 9001+46.37
 N= 1,865,209.16
 E= 1,175,573.36
 Δ = 4° 39' 23"
 D= 1° 35' 30"
 R= 3600.00'
 T= 146.37'
 L= 292.57'
 E= 2.97'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9000+00.00
 N= 1,865,354.66
 E= 1,175,557.49
 P.T. STA= 9002+92.57
 N= 1,865,062.84
 E= 1,175,577.36

CURVE SBAUX2
 P.I. STA= 9005+64.11
 N= 1,864,791.41
 E= 1,175,584.78
 Δ = 4° 45' 49"
 D= 1° 02' 30"
 R= 5500.00'
 T= 228.77'
 L= 457.27'
 E= 4.76'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9003+35.35
 N= 1,865,020.09
 E= 1,175,578.53
 P.T. STA= 9007+92.62
 N= 1,864,564.03
 E= 1,175,610.01

CURVE SBAUX3
 P.I. STA= 9013+94.96
 N= 1,863,962.56
 E= 1,175,608.62
 Δ = 1° 57' 20"
 D= 1° 02' 30"
 R= 5500.00'
 T= 93.88'
 L= 187.72'
 E= 0.80'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9013+01.08
 N= 1,864,056.35
 E= 1,175,612.60
 P.T. STA= 9014+88.82
 N= 1,863,868.69
 E= 1,175,607.83

CURVE SBAUX4
 P.I. STA= 9017+58.36
 N= 1,863,599.16
 E= 1,175,605.59
 Δ = 3° 38' 40"
 D= 1° 35' 30"
 R= 3600.00'
 T= 114.53'
 L= 228.99'
 E= 0.80'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9016+43.83
 N= 1,863,713.69
 E= 1,175,606.54
 P.T. STA= 9018+72.82
 N= 1,863,484.92
 E= 1,175,637.55

CURVE SBLOCO1
 P.I. STA= 3448+16.06
 N= 1,865,764.28
 E= 1,175,631.89
 Δ = 3° 14' 59"
 D= 0° 50' 33"
 R= 6800.00'
 T= 192.90'
 L= 385.69'
 E= 2.74'
 e= 2.5'
 T.R.= 41' (41')
 S.E. RUN= 103' (103')
 P.C. STA= 3446+23.16
 N= 1,865,571.45
 E= 1,175,637.16
 P.T. STA= 3450+08.86
 N= 1,865,957.09
 E= 1,175,637.55

CURVE SBDR06
 P.I. STA= 1444+17.27
 N= 1,865,361.46
 E= 1,175,708.72
 Δ = 3° 35' 11"
 D= 0° 27' 29"
 R= 12510.00'
 T= 391.66'
 L= 783.06'
 E= 6.13'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 1440+25.61
 N= 1,864,969.95
 E= 1,175,719.53
 P.T. STA= 1448+08.67
 N= 1,865,752.88
 E= 1,175,722.42

CURVE SBDR07
 P.I. STA= 1455+16.63
 N= 1,866,460.40
 E= 1,175,747.19
 Δ = 3° 33' 01"
 D= 0° 27' 31"
 R= 12490.00'
 T= 387.09'
 L= 773.94'
 E= 6.00'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 1451+29.54
 N= 1,866,073.55
 E= 1,175,733.65
 P.T. STA= 1459+03.48
 N= 1,866,847.36
 E= 1,175,736.75

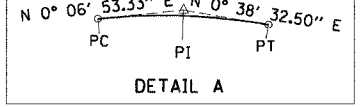
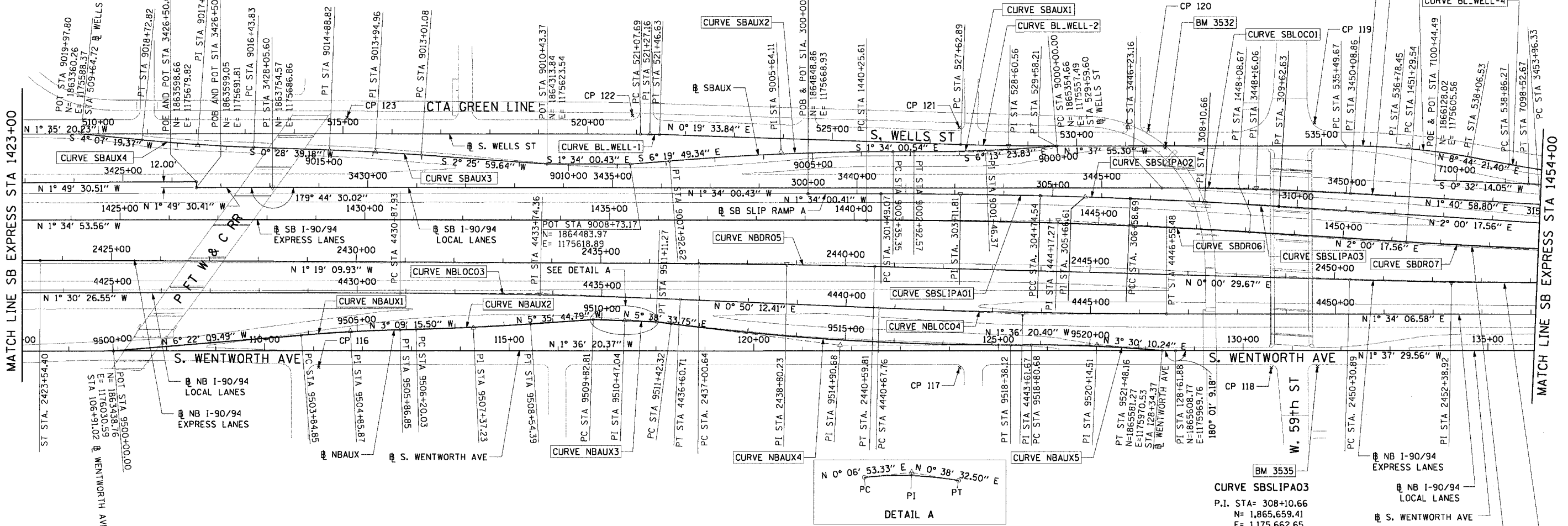
CURVE NBDRO5
 P.I. STA= 2438+80.23
 N= 1,866,168.26
 E= 1,175,813.83
 Δ = 1° 19' 40"
 D= 0° 22' 11"
 R= 15500.00'
 T= 179.59'
 L= 359.17'
 E= 1.04'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 2437+00.64
 N= 1,865,960.24
 E= 1,175,814.00
 P.T. STA= 2445+46.92
 N= 1,866,376.21
 E= 1,175,808.29

CURVE NBDRO6
 P.I. STA= 2452+38.92
 N= 1,866,168.26
 E= 1,175,814.03
 Δ = 1° 35' 21"
 D= 0° 22' 55"
 R= 15000.00'
 T= 208.03'
 L= 416.02'
 E= 1.44'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 2450+30.89
 N= 1,865,960.24
 E= 1,175,814.00
 P.T. STA= 2454+46.92
 N= 1,866,376.21
 E= 1,175,808.29

CURVE NBLOCO4
 P.I. STA= 4433+74.36
 N= 1,864,809.56
 E= 1,175,888.18
 Δ = 2° 20' 39"
 D= 0° 24' 33"
 R= 14000.00'
 T= 286.43'
 L= 572.79'
 E= 2.93'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 4430+87.93
 N= 1,864,020.87
 E= 1,175,895.72
 P.T. STA= 4436+60.71
 N= 1,864,593.61
 E= 1,175,892.37

CURVE NBLOCO4
 P.I. STA= 4443+61.67
 N= 1,865,294.49
 E= 1,175,902.60
 Δ = 2° 24' 19"
 D= 0° 24' 33"
 R= 14000.00'
 T= 293.90'
 L= 587.72'
 E= 3.08'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 4440+67.76
 N= 1,865,000.61
 E= 1,175,898.31
 P.T. STA= 4446+55.48
 N= 1,865,588.28
 E= 1,175,894.56

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	12
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62807				



CURVE NBAUX1
 P.I. STA= 9504+85.87
 N= 1,863,921.64
 E= 1,175,976.69
 Δ = 3° 12' 54"
 D= 1° 35' 30"
 R= 3600.00'
 T= 101.03'
 L= 202.00'
 E= 1.42'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9503+84.85
 N= 1,863,821.23
 E= 1,175,987.89
 P.T. STA= 9505+86.85
 N= 1,864,022.51
 E= 1,175,971.13

CURVE NBAUX2
 P.I. STA= 9507+37.23
 N= 1,864,172.66
 E= 1,175,962.85
 Δ = 2° 26' 29"
 D= 1° 02' 30"
 R= 5500.00'
 T= 117.20'
 L= 234.36'
 E= 1.25'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9506+20.03
 N= 1,864,055.64
 E= 1,175,969.30
 P.T. STA= 9508+54.39
 N= 1,864,289.30
 E= 1,175,951.42

CURVE NBAUX3
 P.I. STA= 9510+47.04
 N= 1,864,481.34
 E= 1,175,939.03
 Δ = 0° 31' 39"
 D= 1° 02' 30"
 R= 13952.00'
 T= 64.23'
 L= 128.46'
 E= 0.15'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9509+82.81
 N= 1,864,417.11
 E= 1,175,938.90
 P.T. STA= 9511+11.27
 N= 1,864,545.57
 E= 1,175,939.75

CURVE NBAUX4
 P.I. STA= 9514+90.68
 N= 1,864,923.14
 E= 1,175,977.06
 Δ = 7° 14' 54"
 D= 1° 02' 30"
 R= 5500.00'
 T= 117.20'
 L= 695.79'
 E= 11.02'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 9511+42.32
 N= 1,864,576.47
 E= 1,175,942.80
 P.T. STA= 9518+38.12
 N= 1,865,271.36
 E= 1,175,967.30

CURVE NBAUX5
 P.I. STA= 9520+14.51
 N= 1,864,481.34
 E= 1,175,977.06
 Δ = 5° 06' 31"
 D= 1° 02' 30"
 R= 3000.00'
 T= 133.83'
 L= 267.48'
 E= 2.98'
 e= 2.4
 T.R.= 11' (0')
 S.E. RUN= 66' (0')
 P.C. STA= 9518+80.68
 N= 1,865,313.91
 E= 1,175,966.10
 P.T. STA= 9521+48.16
 N= 1,865,581.27
 E= 1,175,970.53

CURVE BL_WELL-1
 P.I. STA= 521+27.16
 N= 1,864,522.25
 E= 1,175,556.14
 Δ = 1° 54' 54"
 D= 1° 02' 30"
 R= 1165.00'
 T= 19.47'
 L= 38.94'
 E= 0.16'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 521+07.69
 N= 1,864,502.79
 E= 1,175,556.68
 P.T. STA= 521+46.63
 N= 1,865,200.51
 E= 1,175,556.25

CURVE BL_WELL-2
 P.I. STA= 528+60.56
 N= 1,865,255.64
 E= 1,175,560.31
 Δ = 1° 57' 29"
 D= 1° 54' 35"
 R= 5715.00'
 T= 133.83'
 L= 195.31'
 E= 0.83'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 527+62.89
 N= 1,865,157.98
 E= 1,175,559.75
 P.T. STA= 529+58.21
 N= 1,865,353.27
 E= 1,175,557.53

CURVE BL_WELL-3
 P.I. STA= 536+78.45
 N= 1,866,073.22
 E= 1,175,537.02
 Δ = 10° 22' 17"
 D= 4° 55' 05"
 R= 1419.00'
 T= 19.47'
 L= 128.78'
 E= 5.83'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 535+49.67
 N= 1,865,944.49
 E= 1,175,540.68
 P.T. STA= 538+06.53
 N= 1,865,323.30
 E= 1,175,556.58

CURVE SBSLIPA01
 P.I. STA= 303+11.81
 N= 1,865,160.56
 E= 1,175,660.40
 Δ = 1° 25' 14"
 D= 0° 00' 09"
 R= 13128.07'
 T= 162.74'
 L= 325.47'
 E= 1.01'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 301+49.07
 N= 1,864,997.88
 E= 1,175,664.85
 P.T. STA= 304+74.54
 N= 1,865,323.30
 E= 1,175,659.99

CURVE SBSLIPA02
 P.I. STA= 305+66.61
 N= 1,865,415.38
 E= 1,175,659.75
 Δ = 0° 49' 32"
 D= 0° 26' 10"
 R= 13137.24'
 T= 151.98'
 L= 303.94'
 E= 0.88'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C.C. STA= 306+58.69
 N= 1,865,507.45
 E= 1,175,660.85
 P.T. STA= 309+62.63
 N= 1,865,811.30
 E= 1,175,667.96

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th ST TO 47th ST (FRONTAGE ROAD)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WENTWORTH AVENUE

ALIGNMENT PLAN

SCALE: 1"=100'
 DATE: February 11, 2005
 DRAWN BY: NJH/AMM
 CHECKED BY: JAL/MS

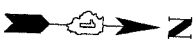


NOTES:

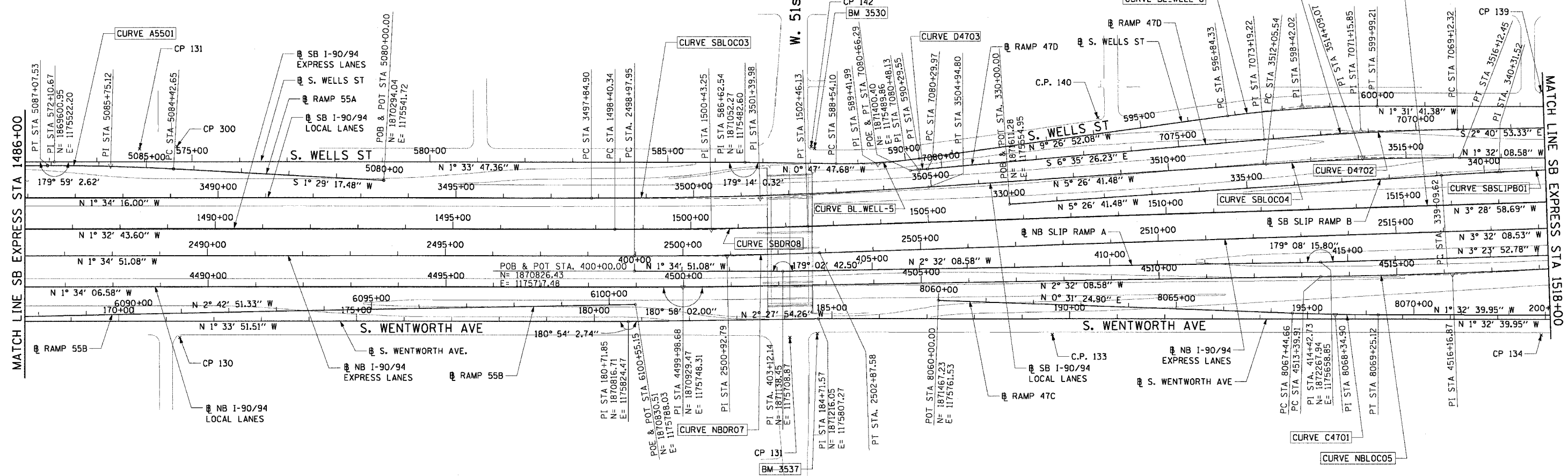
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
- FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

02/02/2005 09:05:02 AM \\c:\tech\m\p40468\p40468\elec\p40468\contract\9013\9013\00042a.rvt

F.A.I. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	14
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
62807				



CURVE C4701 P.I. STA= 8068+34.90 N= 1,872,302.10 E= 1,175,769.16 Δ= 2° 04' 05" D= 1° 08' 45" R= 5000.00' T= 90.24' L= 180.47' E= 0.81' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8067+44.66 N= 1,872,211.86 E= 1,175,768.33 P.T. STA= 8069+25.12 N= 1,872,392.31 E= 1,175,766.72	CURVE D4702 P.I. STA= 7071+15.85 N= 1,872,344.72 E= 1,175,380.81 Δ= 3° 54' 33" D= 0° 57' 38" R= 5964.00' T= 203.53' L= 406.91' E= 3.47' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7069+12.32 N= 1,872,548.03 E= 1,175,371.29 P.T. STA= 7073+19.22 N= 1,872,142.54 E= 1,175,404.17	CURVE D4703 P.I. STA= 7080+48.13 N= 1,871,418.45 E= 1,175,487.83 Δ= 0° 11' 56" D= 0° 32' 51" R= 10464.00' T= 18.16' L= 36.32' E= 0.02' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7080+29.97 N= 1,871,436.49 E= 1,175,485.75 P.T. STA= 7080+66.29 N= 1,871,400.40 E= 1,175,489.86	CURVE A5501 P.I. STA= 5085+75.12 N= 1,869,719.11 E= 1,175,526.79 Δ= 3° 02' 07" D= 1° 08' 45" R= 5000.00' T= 132.48' L= 264.89' E= 1.75' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 5084+42.65 N= 1,869,851.55 E= 1,175,530.23 P.T. STA= 5087+07.53 N= 1,869,586.69 E= 1,175,530.36	CURVE BL.WELL-5 P.I. STA= 589+41.99 N= 1,871,331.70 E= 1,175,478.71 Δ= 8° 39' 04" D= 4° 55' 51" R= 1162.00' T= 87.89' L= 175.45' E= 3.32' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 588+54.10 N= 1,871,243.82 E= 1,175,479.94 P.T. STA= 590+29.55 N= 1,872,377.49 E= 1,175,464.29	CURVE BL.WELL-6 P.I. STA= 598+42.02 N= 1,872,219.86 E= 1,175,330.92 Δ= 7° 55' 11" D= 2° 30' 55" R= 2278.00' T= 157.69' L= 314.87' E= 5.45' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 596+84.33 N= 1,872,064.31 E= 1,175,356.80 P.T. STA= 599+99.21 N= 1,872,377.49 E= 1,175,326.72	CURVE SBSLIPB01 P.I. STA= 340+31.52 N= 1,872,638.15 E= 1,175,457.07 Δ= 2° 00' 00" D= 0° 49' 13" R= 6984.00' T= 121.91' L= 243.79' E= 1.06' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 339+09.62 N= 1,872,516.79 E= 1,175,468.64 P.T. STA= 341+53.40 N= 1,872,759.83 E= 1,175,449.75
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CURVE SBLOC03 P.I. STA= 3501+39.98 N= 1,871,086.59 E= 1,175,557.00 Δ= 3° 52' 25" D= 0° 32' 44" R= 10500.00' T= 355.09' L= 709.90' E= 6.00' e= RC T.R.= 96° (96') S.E. RUN= 62° (62') P.C. STA= 3497+84.90 N= 1,870,731.64 E= 1,175,566.73 P.T. STA= 3504+94.80 N= 1,871,440.08 E= 1,175,523.31	CURVE SBLOC04 P.I. STA= 3514+09.07 N= 1,872,350.23 E= 1,175,436.55 Δ= 3° 54' 33" D= 0° 57' 39" R= 5964.00' T= 203.53' L= 406.91' E= 3.47' e= 2.8% T.R.= 41° (41') S.E. RUN= 115° (115') P.C. STA= 3512+05.54 N= 1,872,147.61 E= 1,175,455.86 P.T. STA= 3516+12.45 N= 1,872,553.69 E= 1,175,431.10	CURVE SBDR08 P.I. STA= 1500+43.25 N= 1,870,985.63 E= 1,175,625.10 Δ= 1° 56' 15" D= 0° 28' 39" R= 12000.00' T= 202.92' L= 405.79' E= 1.72' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 1498+40.34 N= 1,870,782.79 E= 1,175,630.57 P.T. STA= 1502+46.13 N= 1,871,188.17 E= 1,175,612.77	CURVE NBDR07 P.I. STA= 2500+92.79 N= 1,871,020.31 E= 1,175,680.12 Δ= 1° 57' 17" D= 0° 30' 06" R= 11420.00' T= 194.84' L= 389.63' E= 1.66' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 2498+97.95 N= 1,870,825.55 E= 1,175,685.50 P.T. STA= 2502+87.58 N= 1,871,214.78 E= 1,175,668.10	CURVE NBLOC05 P.I. STA= 4516+16.87 N= 1,872,546.08 E= 1,175,676.71 Δ= 2° 26' 28" D= 0° 26' 27" R= 13000.00' T= 276.96' L= 553.84' E= 2.95' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 4513+39.91 N= 1,872,269.39 E= 1,175,688.97 P.T. STA= 4518+93.75 N= 1,872,822.00 E= 1,175,652.69
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NOTES:
 1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th ST TO 47th ST (FRONTAGE ROAD)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WENTWORTH AVENUE

ALIGNMENT PLAN

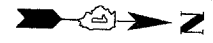
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 DATE: February 11, 2005

DRAWN BY: NJH/AMM
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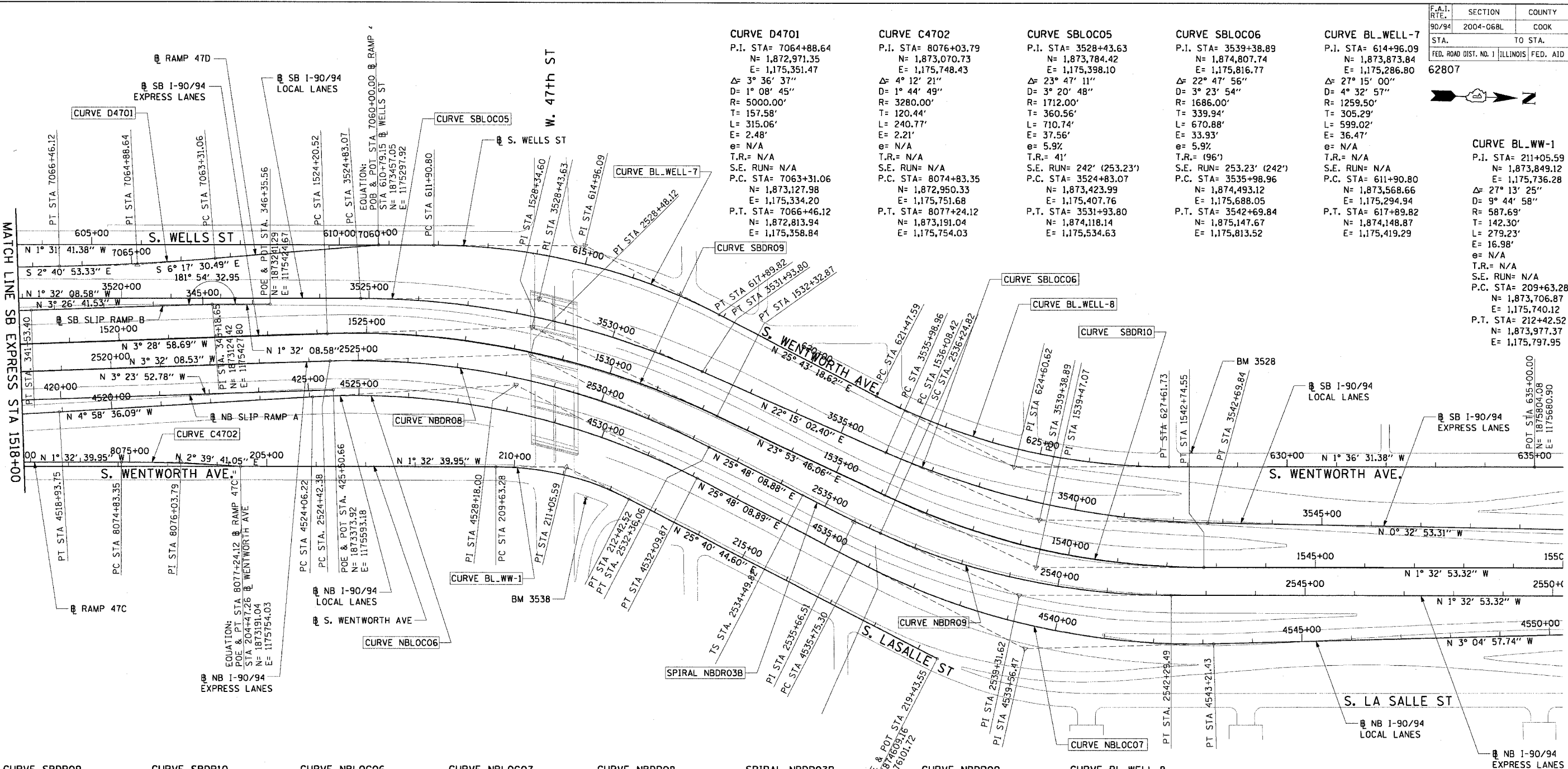


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	15
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	62807	



CURVE BL.WW-1
P.I. STA= 211+05.59
N= 1,873,849.12
E= 1,175,736.28
Δ= 27° 13' 25"
D= 9° 44' 58"
R= 587.69'
T= 142.30'
L= 279.23'
E= 16.98'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 209+63.28
N= 1,873,706.87
E= 1,175,740.12
P.T. STA= 212+42.52
N= 1,873,977.37
E= 1,175,797.95



CURVE SBDR09
P.I. STA= 1528+34.60
N= 1,873,771.86
E= 1,175,455.52
Δ= 27° 22' 45"
D= 3° 22' 13"
R= 1700.00'
T= 414.09'
L= 812.35'
E= 49.71'
e= 5.9%
T.R.= 41'
S.E. RUN= 242' (277.96')
P.C. STA= 1524+20.52
N= 1,873,358.54
E= 1,175,480.67
P.T. STA= 1532+32.87
N= 1,874,150.45
E= 1,175,623.26

CURVE SBDR10
P.I. STA= 1539+47.07
N= 1,874,803.43
E= 1,175,912.56
Δ= 25° 26' 39"
D= 3° 49' 11"
R= 1500.00'
T= 338.65'
L= 666.13'
E= 37.75'
e= 6.0%
T.R.= (96')
S.E. RUN= (282.56') 246'
P.C. STA= 1536+08.42
N= 1,874,493.81
E= 1,175,775.38
P.T. STA= 1542+74.55
N= 1,875,141.96
E= 1,175,903.41

CURVE NBLOC06
P.I. STA= 4528+18.00
N= 1,873,742.76
E= 1,175,572.51
Δ= 30° 46' 45"
D= 3° 49' 48"
R= 1496.00'
T= 411.77'
L= 803.65'
E= 55.64'
e= 6.0%
T.R.= 96' (96')
S.E. RUN= 246' (272.71') 246'
P.C. STA= 4524+06.22
N= 1,873,332.54
E= 1,175,608.23
P.T. STA= 4532+09.87
N= 1,874,113.48
E= 1,175,751.74

CURVE NBLOC07
P.I. STA= 4539+56.47
N= 1,874,785.65
E= 1,176,076.72
Δ= 28° 53' 07"
D= 3° 52' 17"
R= 1480.00'
T= 381.17'
L= 746.13'
E= 48.30'
e= 6.0%
T.R.= 41' (41')
S.E. RUN= (272.71') 246'
P.C. STA= 4535+75.30
N= 1,874,442.48
E= 1,175,910.80
P.T. STA= 4543+21.43
N= 1,875,166.27
E= 1,176,056.22

CURVE NBDR08
P.I. STA= 2528+48.12
N= 1,873,770.44
E= 1,175,510.19
Δ= 29° 20' 17"
D= 3° 41' 47"
R= 1550.00'
T= 405.74'
L= 793.67'
E= 52.23'
e= 6.0%
T.R.= 96' (96')
S.E. RUN= 246' (267.20')
P.C. STA= 2524+42.38
N= 1,873,365.47
E= 1,175,535.22
P.T. STA= 2532+36.06
N= 1,874,135.73
E= 1,175,686.80

SPIRAL NBDR03B
P.I. STA= 2535+66.51
N= 1,874,433.24
E= 1,175,830.64
Δ= 3° 27' 27"
LS= 175.00'
YS= 3.52'
XS= 174.94'
P= 0.88'
K= 87.49'
LT= 116.69'
ST= 58.35'
LC= 174.97'
T.S. STA= 2534+49.82
N= 1,874,328.19
E= 1,175,779.85
S.C. STA= 2536+24.82
N= 1,874,487.21
E= 1,175,852.82

CURVE NBDR09
P.I. STA= 2539+31.62
N= 1,874,770.97
E= 1,175,969.46
Δ= 23° 53' 35"
D= 3° 57' 05"
R= 1450.00'
T= 306.79'
L= 604.67'
E= 32.10'
e= 6.0%
T.R.= 41'
S.E. RUN= 246'
P.C. STA= 2536+24.82
N= 1,874,487.21
E= 1,175,852.82
P.T. STA= 2542+29.49
N= 1,875,077.65
E= 1,175,961.17

CURVE BL.WELL-8
P.I. STA= 624+60.62
N= 1,874,753.20
E= 1,175,710.42
Δ= 27° 19' 50"
D= 4° 27' 01"
R= 1287.50'
T= 313.03'
L= 614.15'
E= 37.51'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 621+47.59
N= 1,874,471.18
E= 1,175,574.56
P.T. STA= 627+61.73
N= 1,875,066.11
E= 1,175,701.63

NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

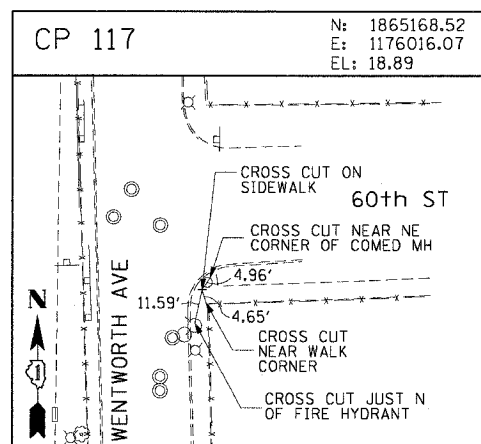
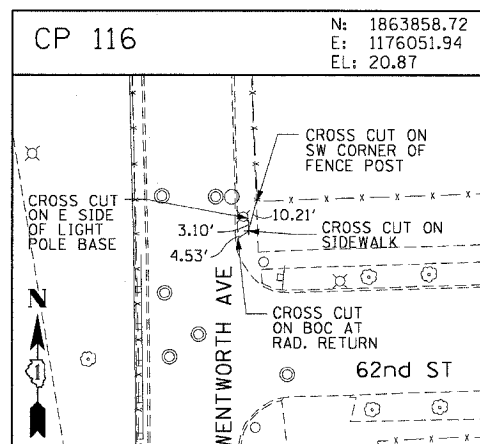
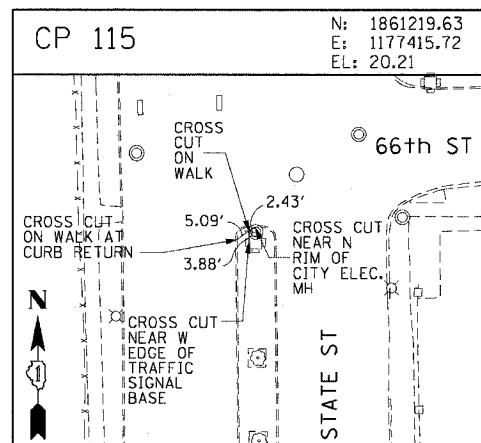
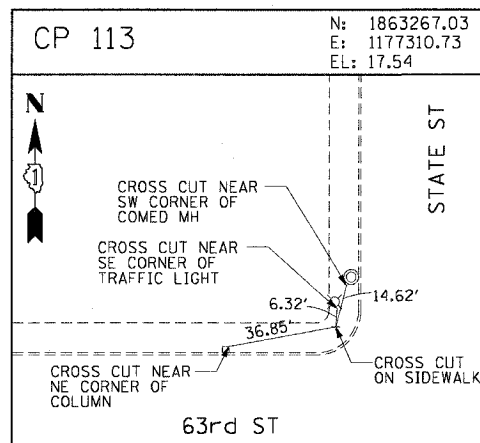
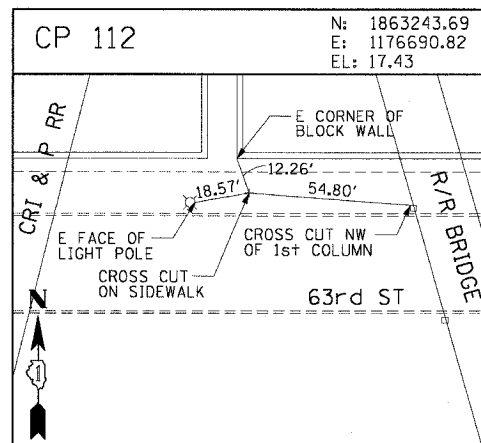
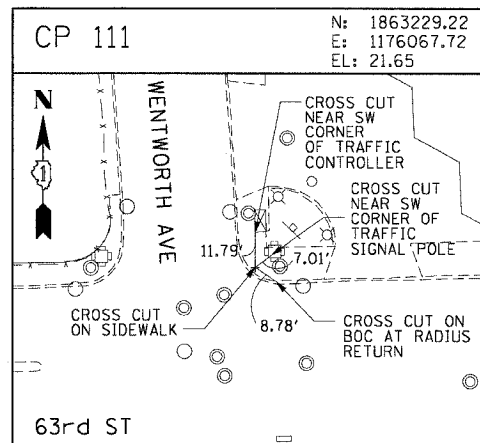
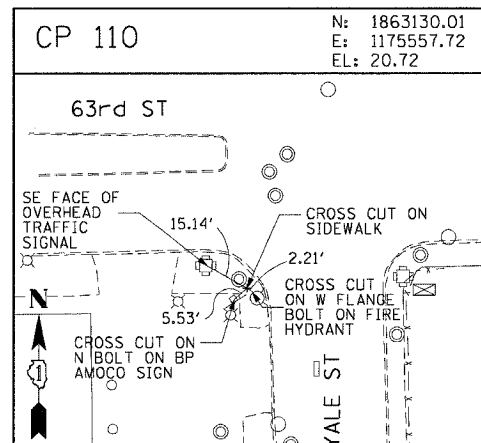
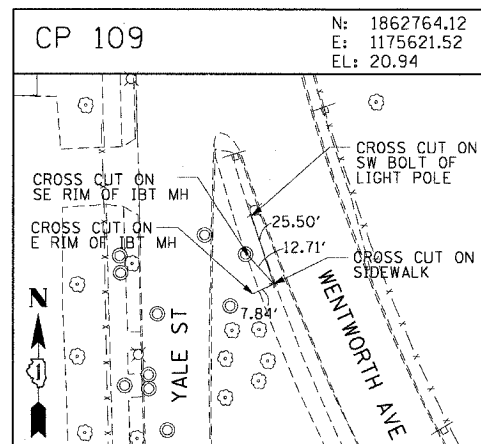
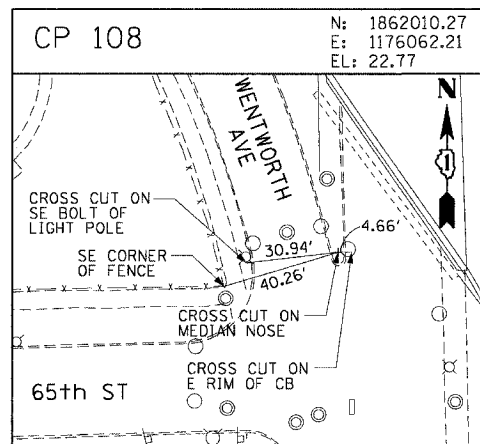
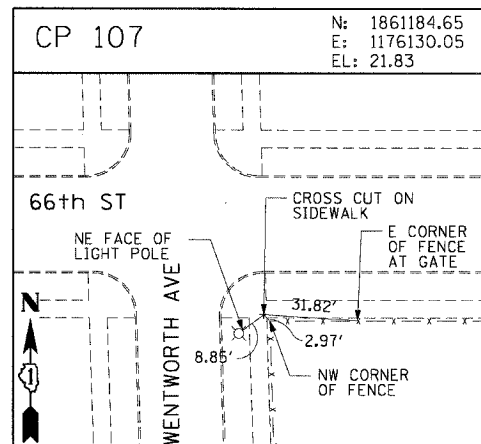
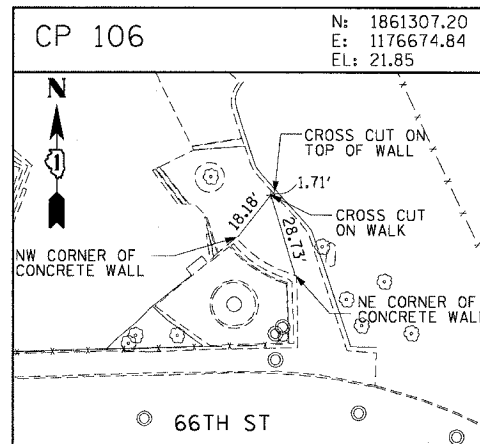
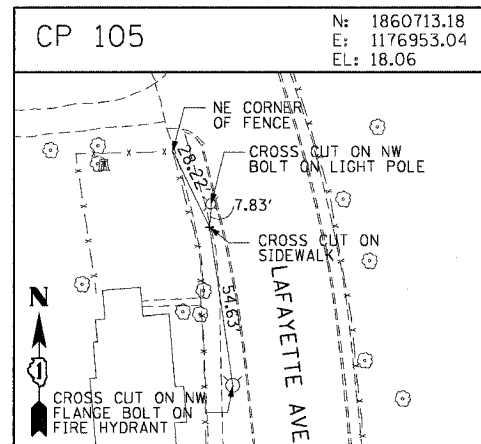
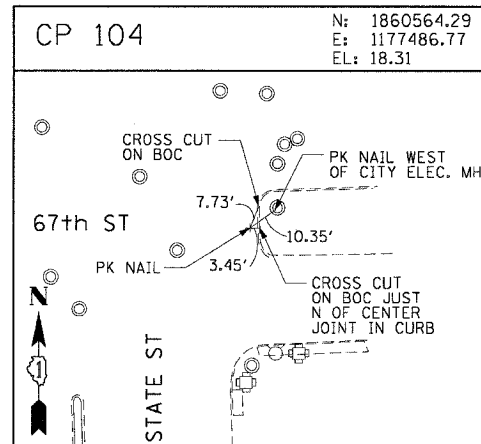
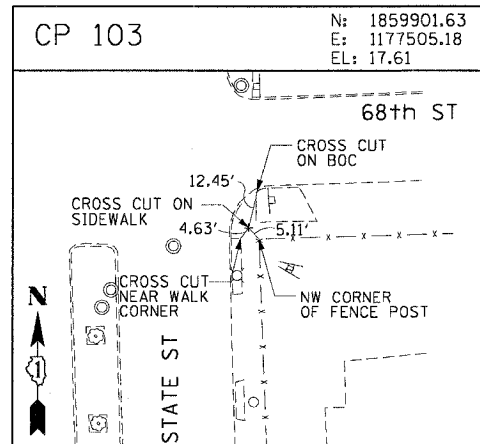
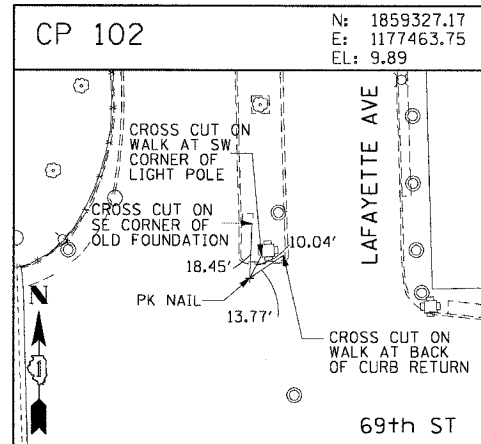
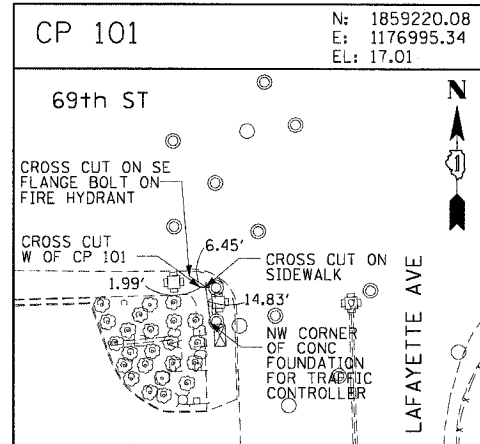
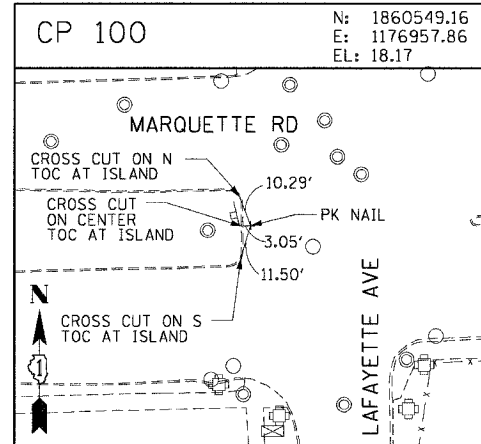
ALIGNMENT PLAN

SCALE: 1"=100'
DATE: February 11, 2005
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



02/10/2005 09:05:04 AM
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	16
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62807				



CTE ENGINEERS
 CONSIDER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
 303 EAST WACKER DRIVE, SUITE 600
 CHICAGO, ILLINOIS 60601-5202, PHONE: (312) 938-0300

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th ST TO 47th ST (FRONTAGE ROAD)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WENTWORTH AVENUE

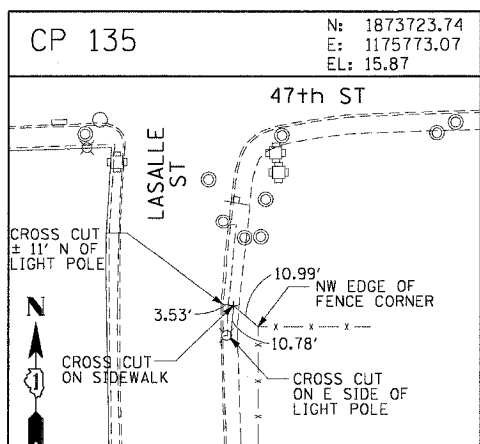
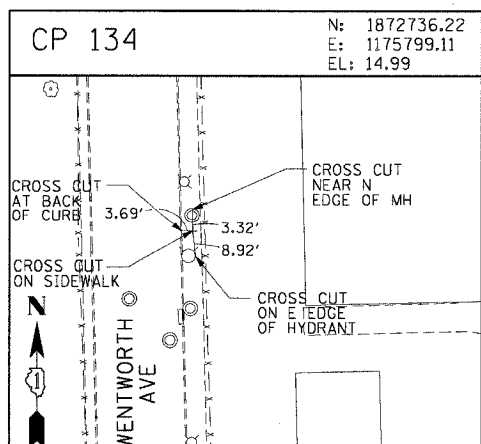
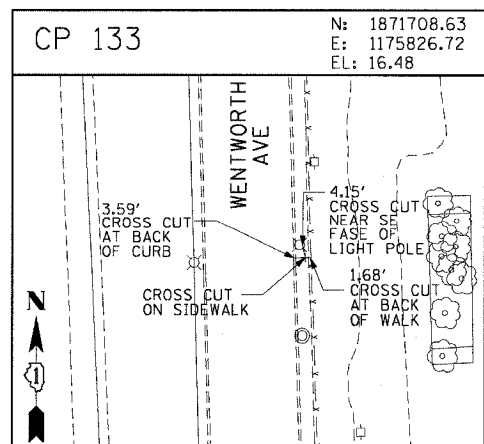
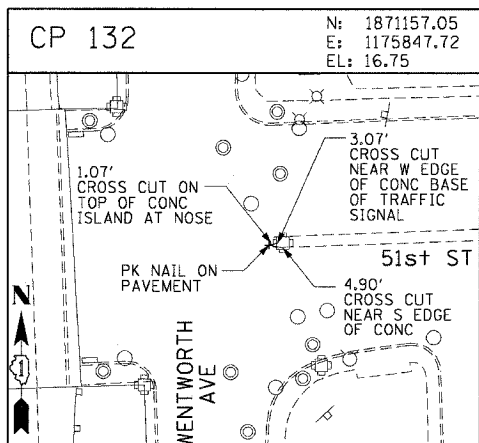
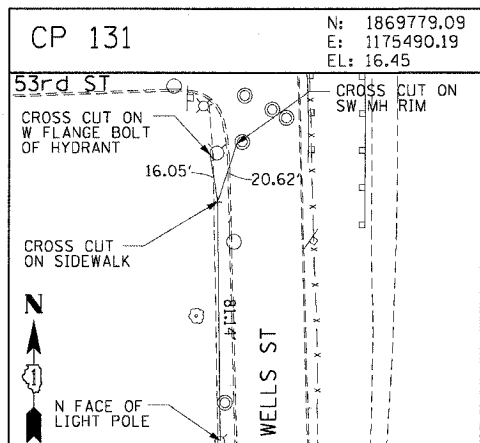
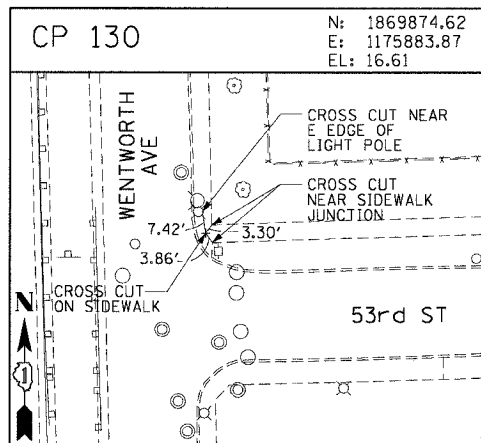
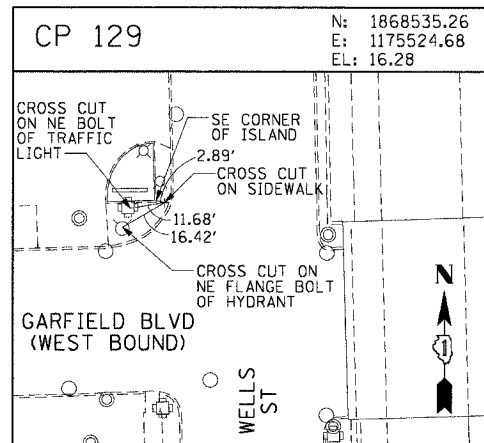
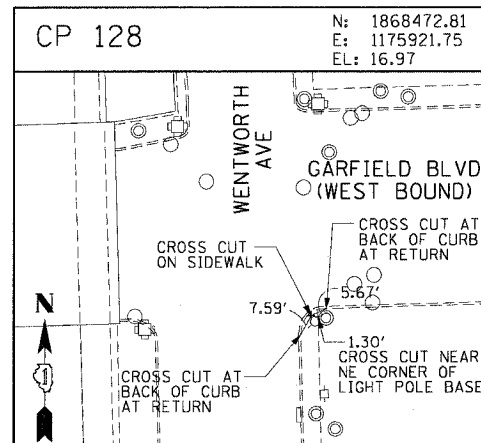
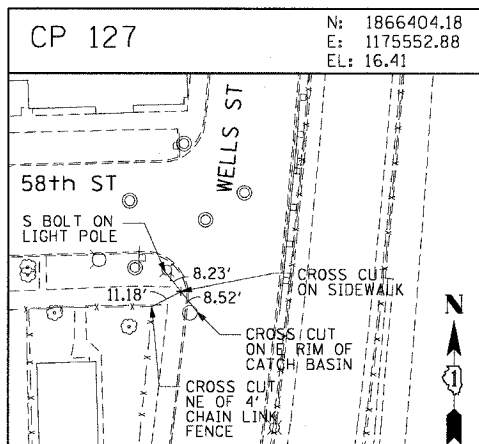
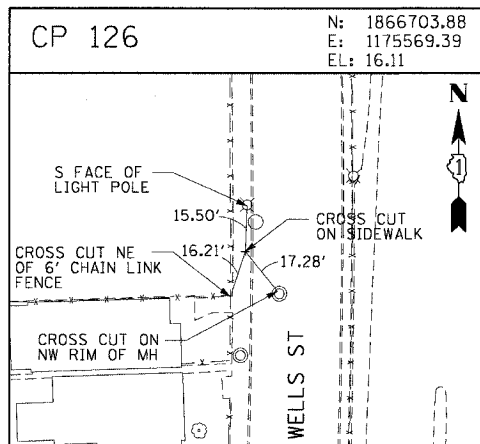
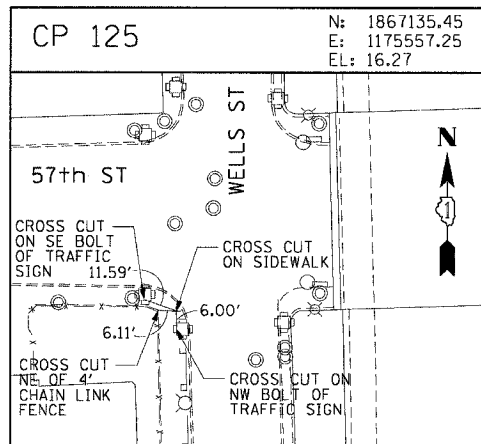
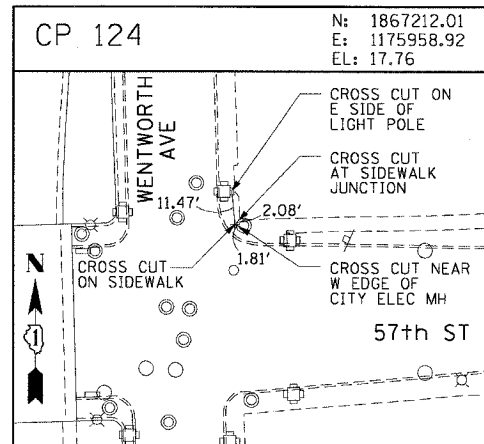
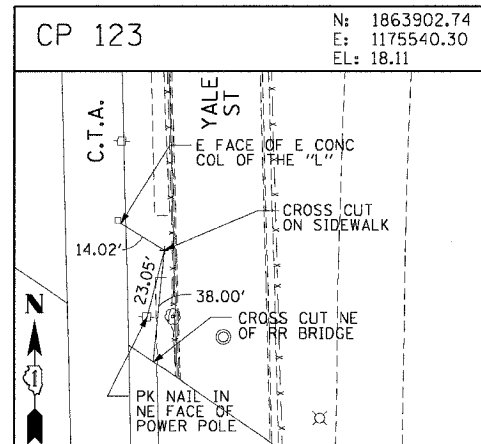
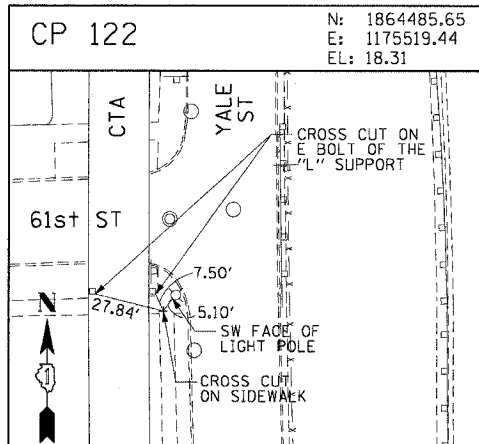
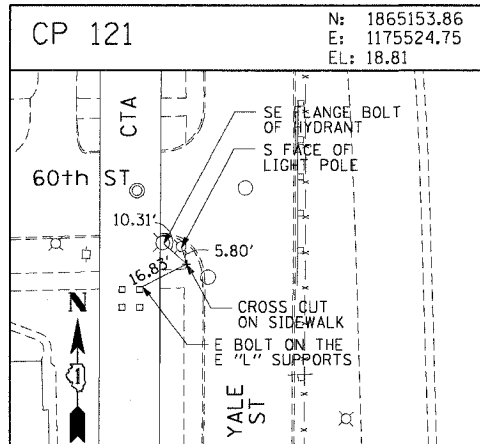
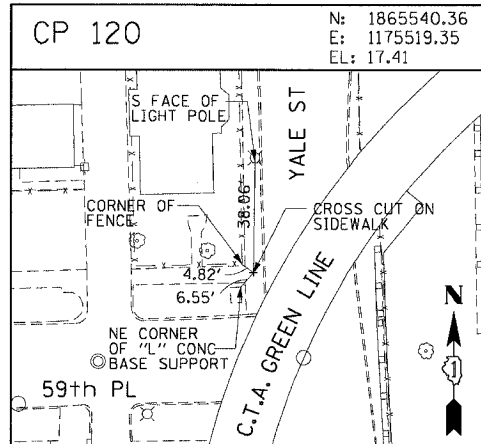
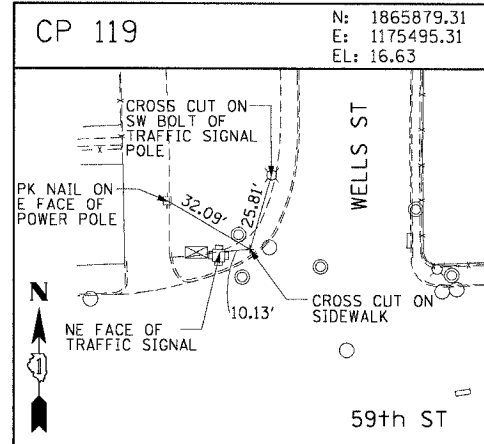
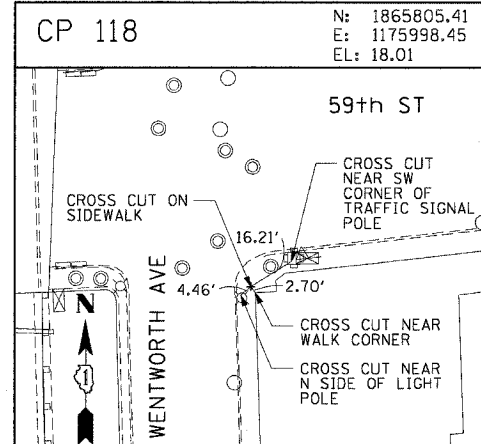
SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'
 DATE: February 11, 2005

DRAWN BY: MRK
 CHECKED BY: JAL

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-06BL	COOK	37	17
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
62807				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

SURVEY TIES AND CONTROL POINTS

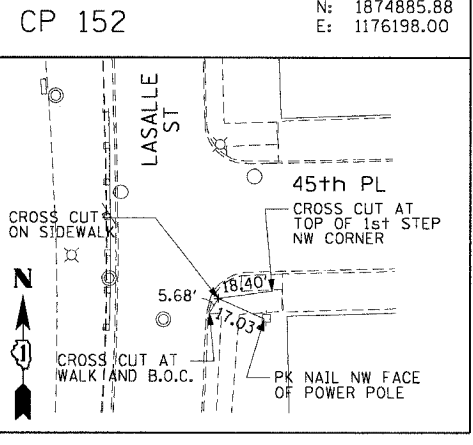
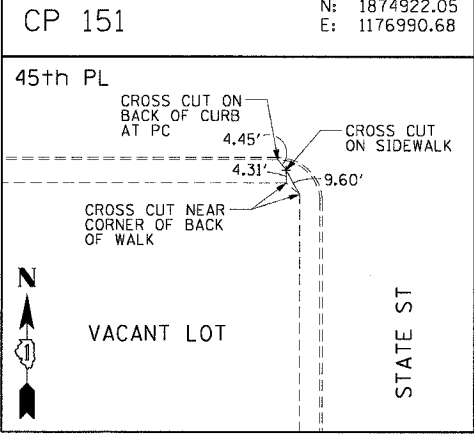
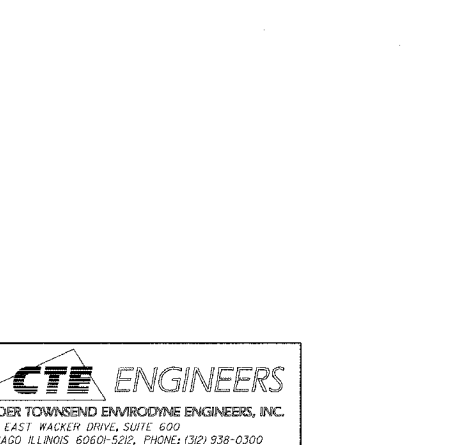
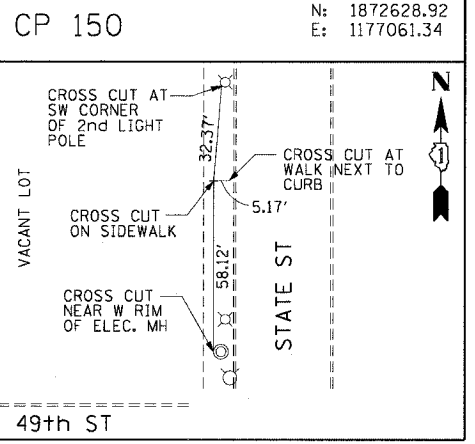
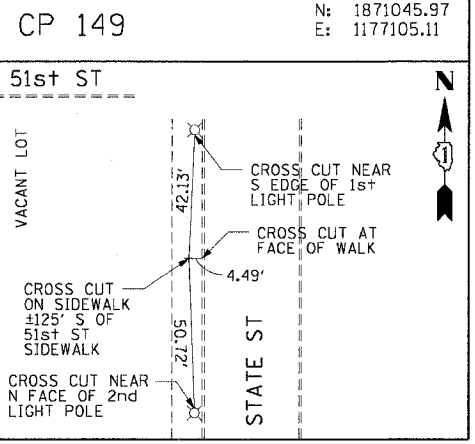
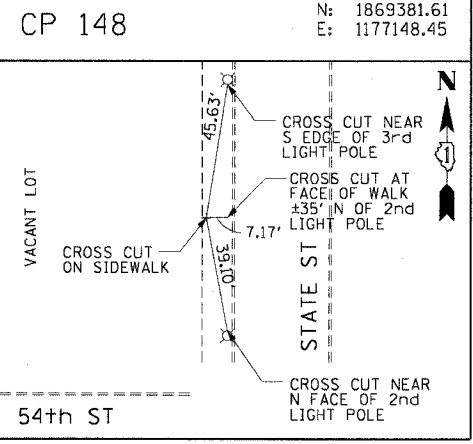
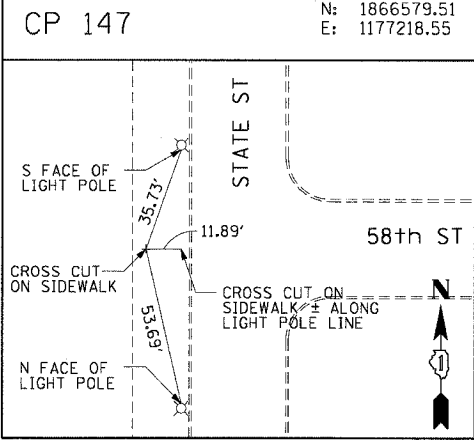
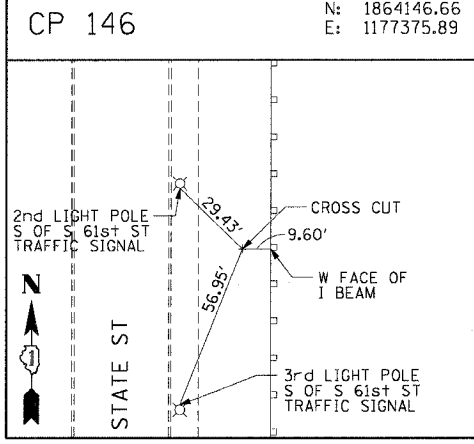
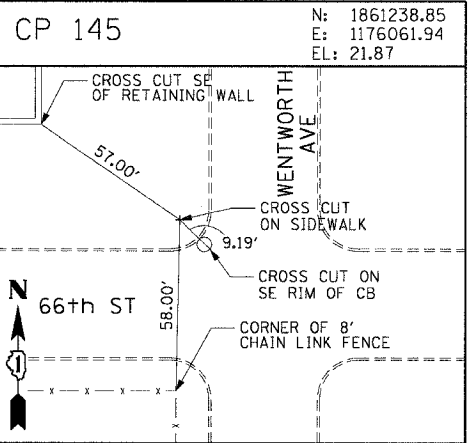
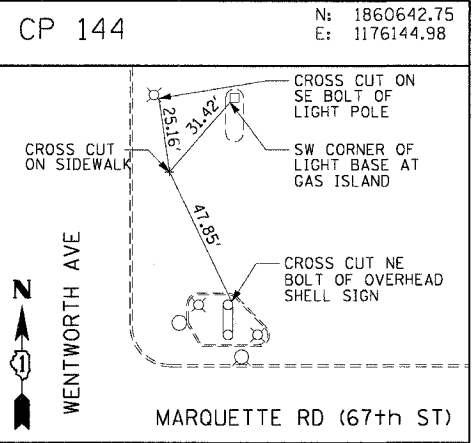
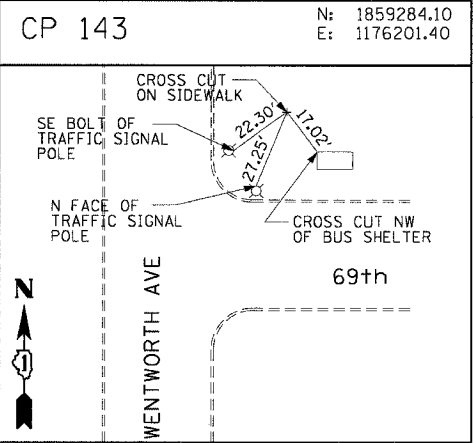
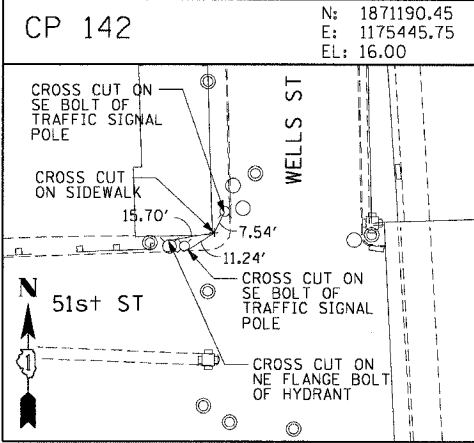
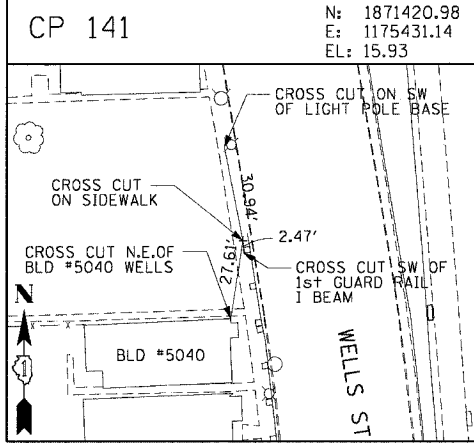
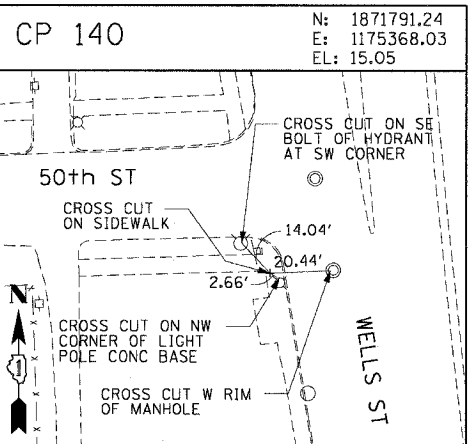
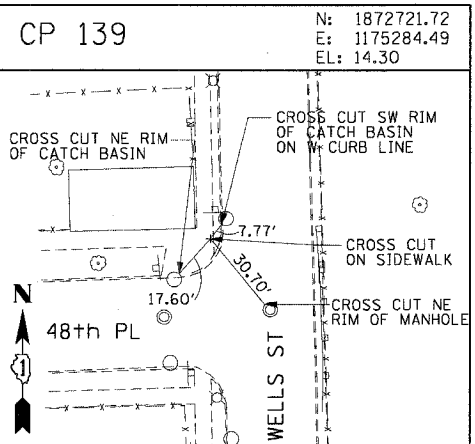
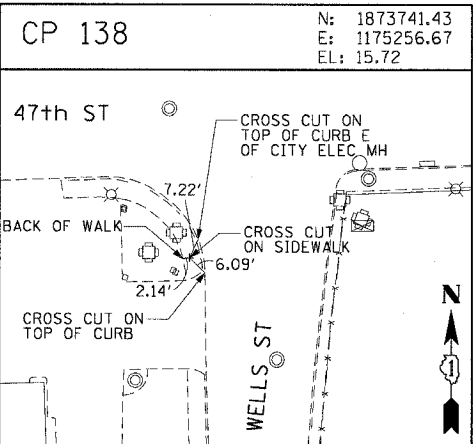
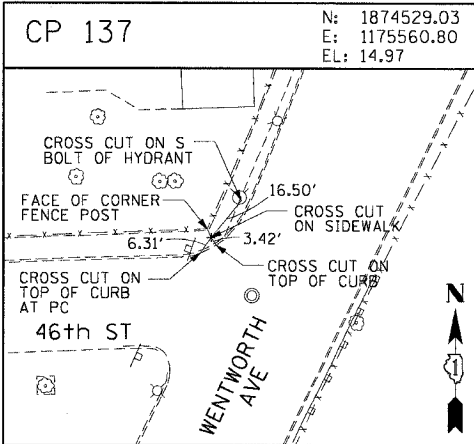
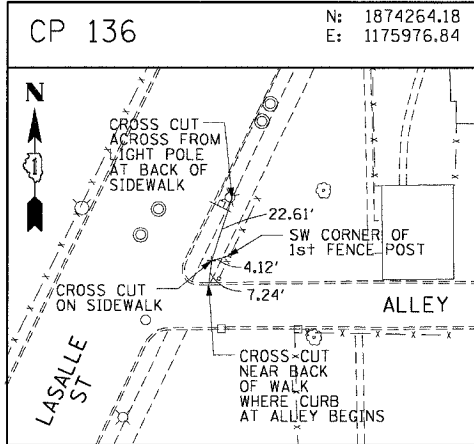
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DATE: February 11, 2005

DRAWN BY: MRK
CHECKED BY: JAL



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	18
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62807				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

SURVEY TIES AND CONTROL POINTS

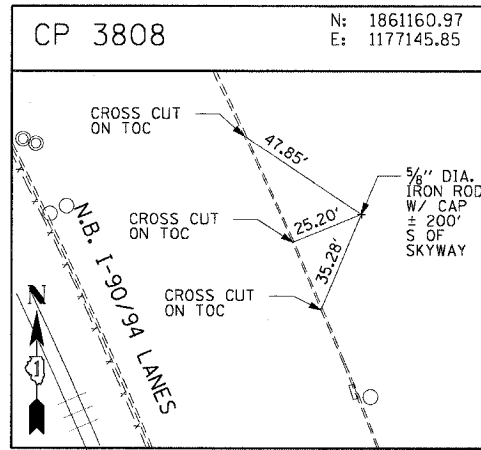
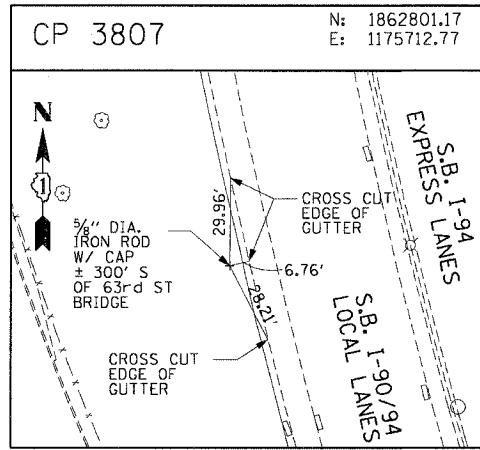
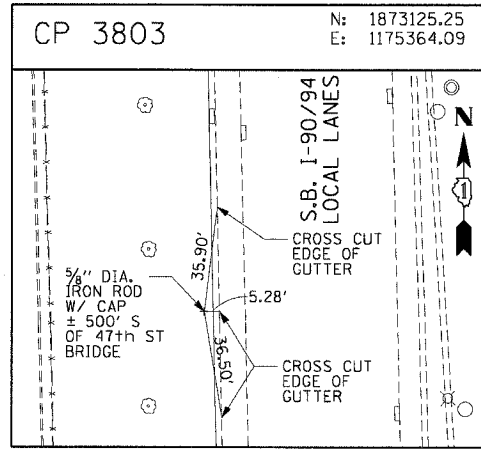
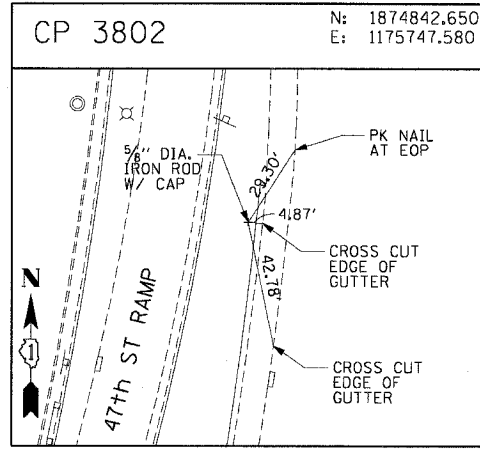
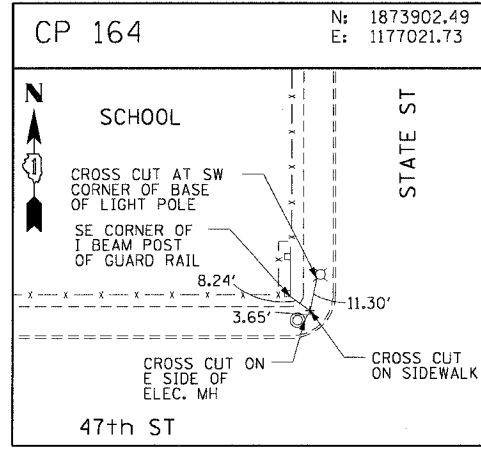
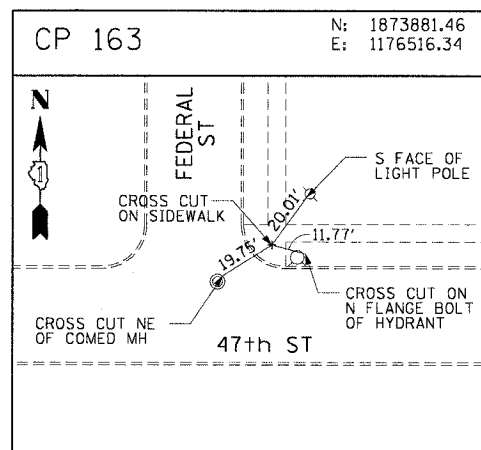
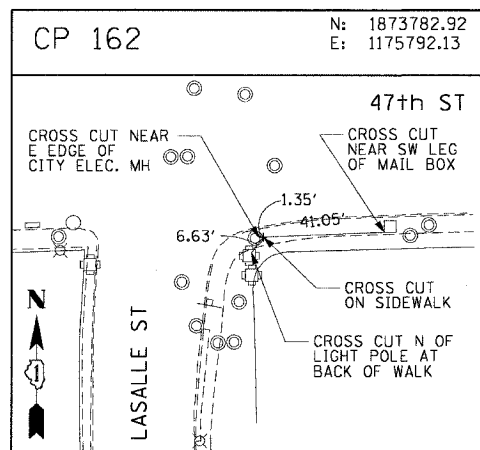
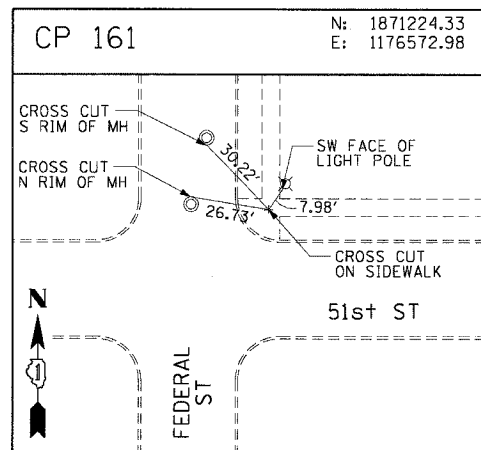
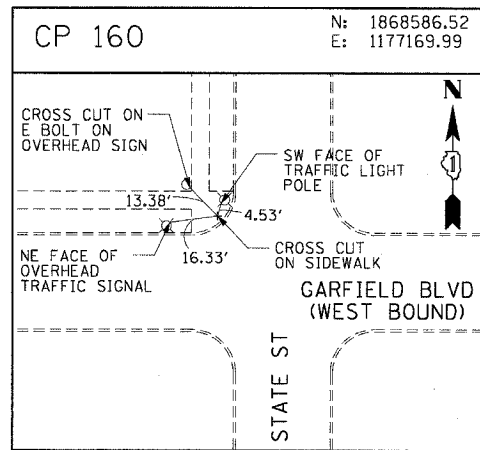
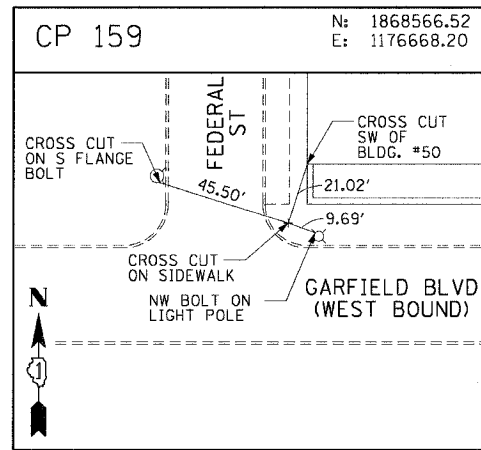
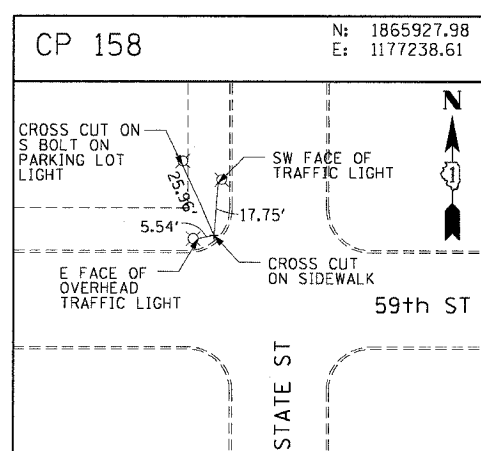
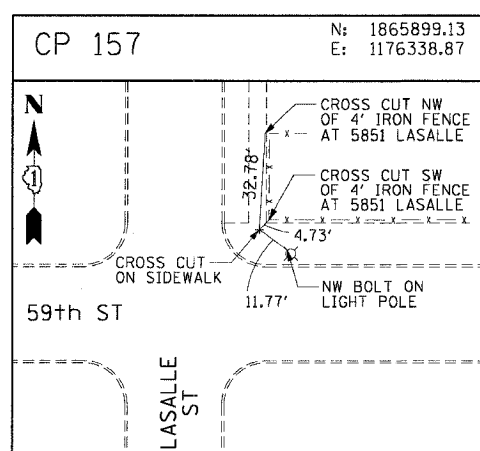
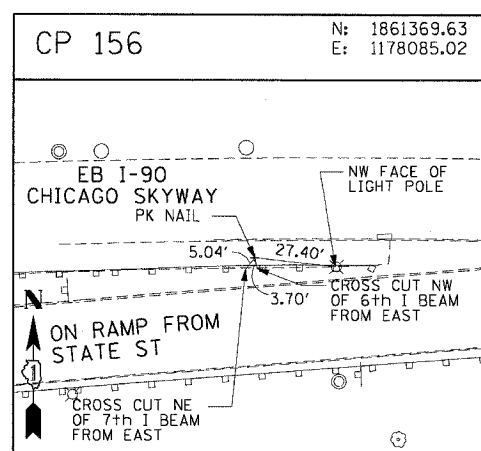
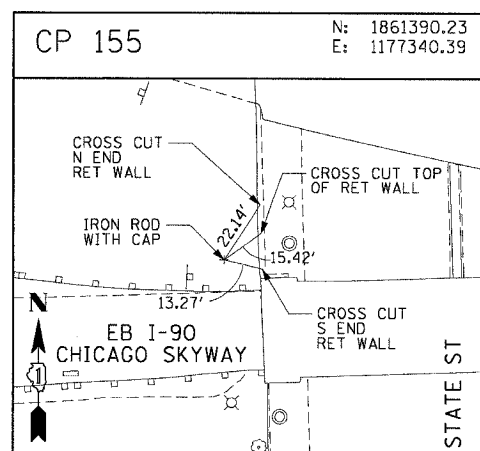
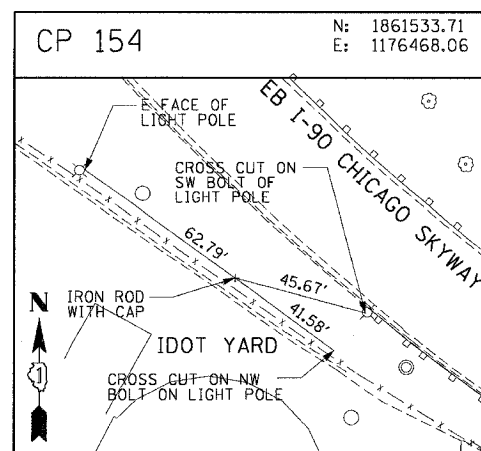
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DATE: February 11, 2005

DRAWN BY: MRK
CHECKED BY: JAL



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	19
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62807				



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th ST TO 47th ST (FRONTAGE ROAD)
 CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
 WENTWORTH AVENUE

SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'
 DATE: February 11, 2005

DRAWN BY: MRK
 CHECKED BY: JAL

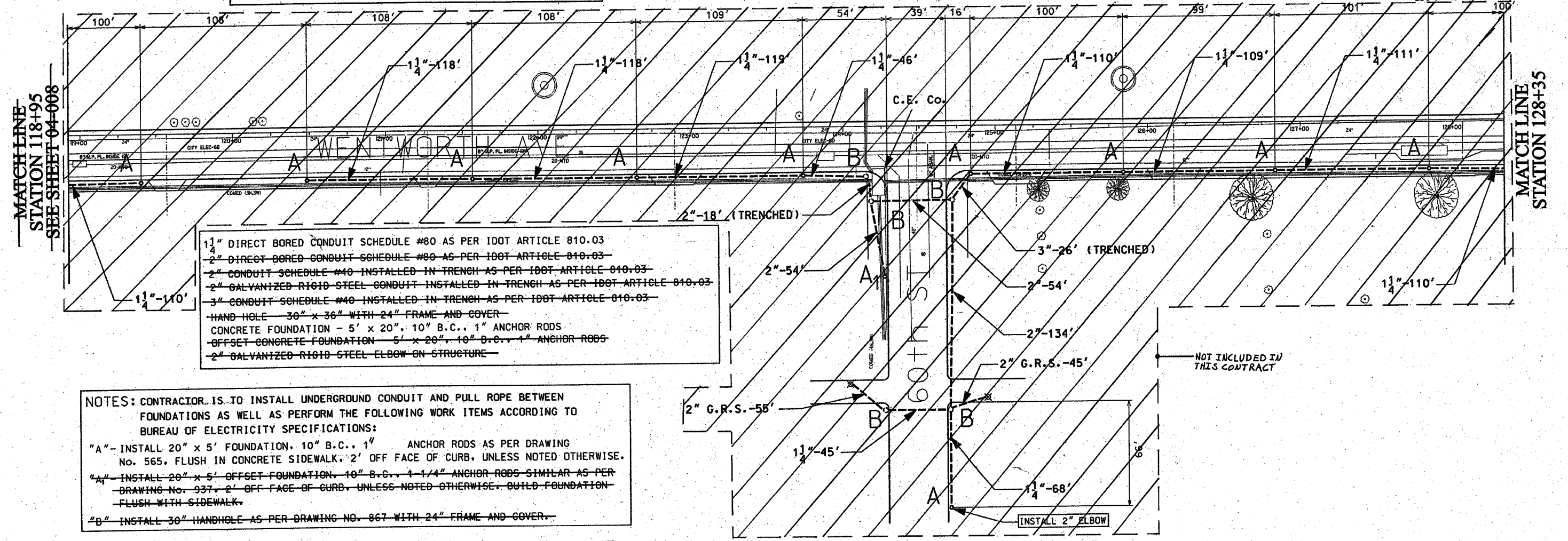
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62807

F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
90/94	*	COOK	37	20
STA. 118+95	TO STA. 135+65			
FED. ROAD DIST NO. 1	ILLINOIS	FED AID PROJECTS		



NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.



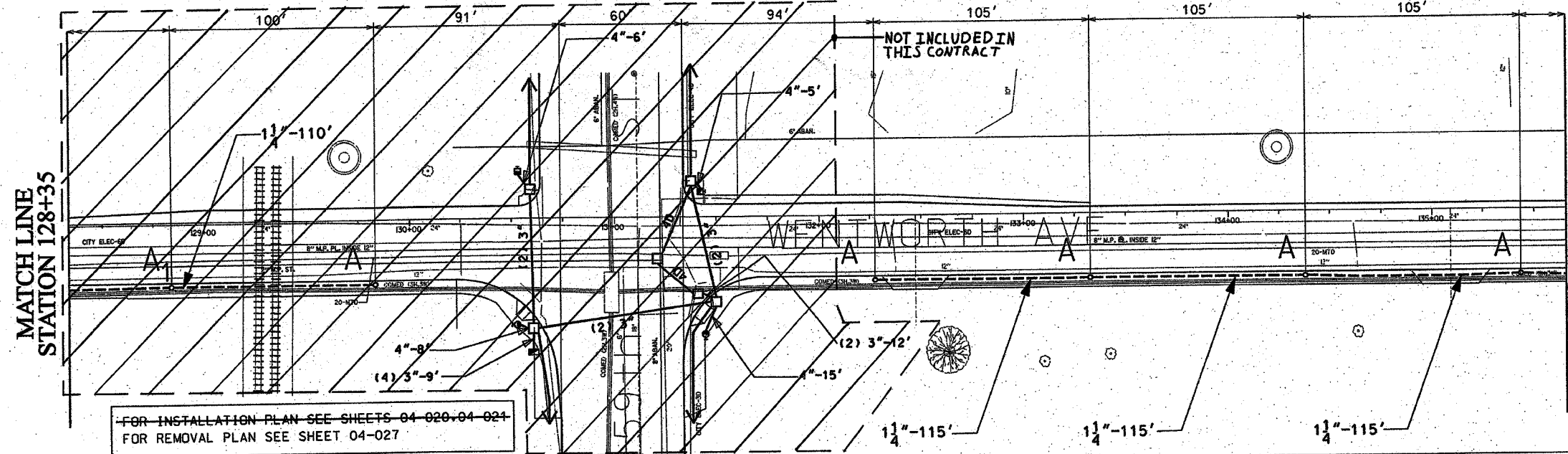
- 1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
- 2" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- 2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- 3" CONDUIT SCHEDULE #40 INSTALLED IN TRENCH AS PER IDOT ARTICLE 810.03
- HAND HOLE 30" x 36" WITH 24" FRAME AND COVER
- CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
- OFFSET CONCRETE FOUNDATION 5' x 20", 10" B.C., 1" ANCHOR RODS
- 2" GALVANIZED RIGID STEEL ELBOW ON STRUCTURE

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:

"A" - INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565, FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.

"A₁" - INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1 1/4" ANCHOR RODS SIMILAR AS PER DRAWING NO. 937, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.

"B" - INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.



MATCH LINE
STATION 135+65
SEE SHEET 04-010

CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN: P.R.S./B.T.G.	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: P.R.S./B.T.G.
SUPERVISING ENGINEER: ELEC. DESIGN ENGR.		DWG. NO. 04-009
ENGINEER OF ELECTRICITY:		
GEN'L. SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22" 36"	SCALE: 1"=30'	DATE: 1/20/04
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 59th St. TO 47th St. (FRONTAGE ROADS)		
STREET LIGHTING UNDERGROUND CONDUIT FACILITIES		
SCALE: 1" = 30'		DRAWN BY: B.T.G.
DATE: February 11, 2005		CHECKED BY: O.L.

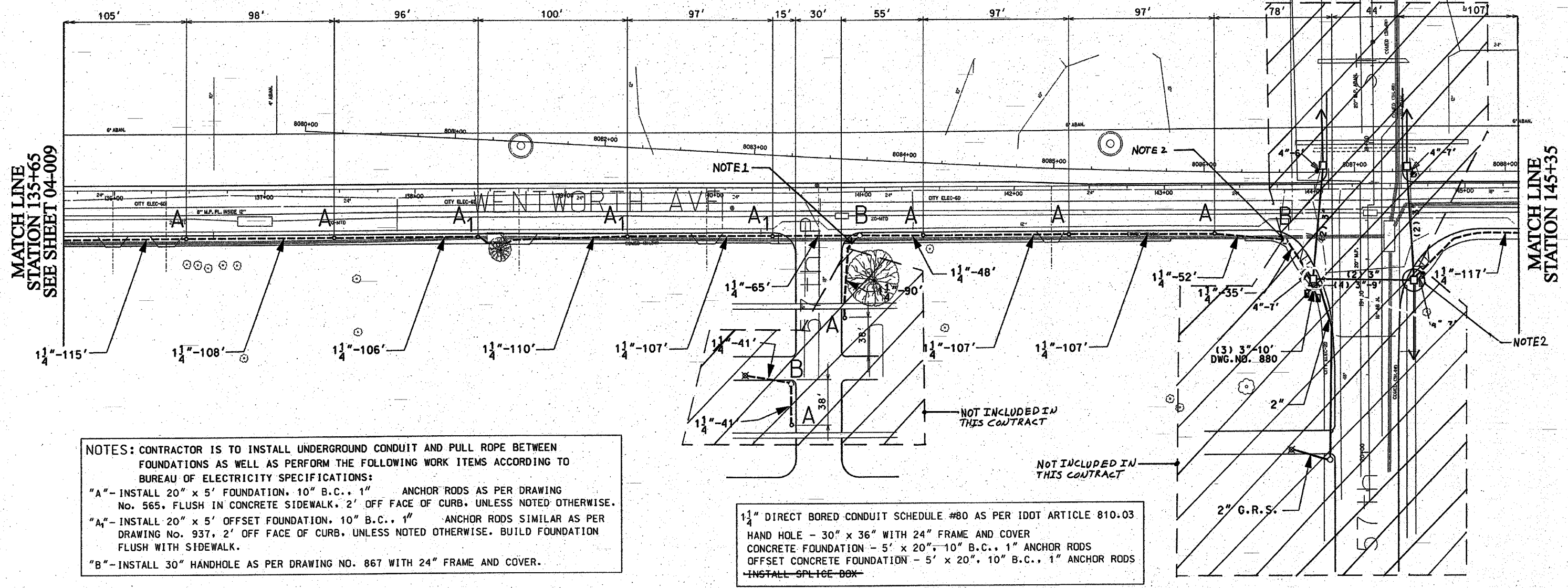
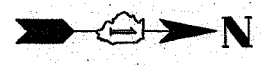
REVISIONS	
NAME	DATE

62807

F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
90/94	*	COOK	37	21
STA. 135+65		TO STA. 151+70		
FED. ROAD DIST NO. 1		ILLINOIS		FED AID PROJECTS
* 2004-069L				

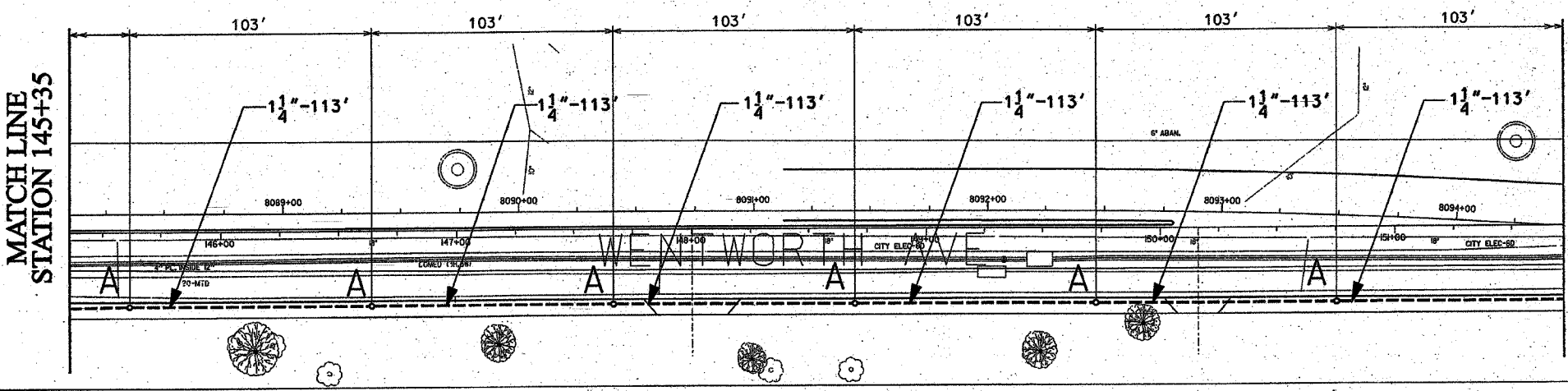
NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.

FOR INSTALLATION PLAN SEE SHEET 04-021
FOR REMOVAL PLAN SEE SHEETS 04-027, 04-028



NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:
 "A"-INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565, FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.
 "A₁"-INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1" ANCHOR RODS SIMILAR AS PER DRAWING NO. 937, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.
 "B"-INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
 HAND HOLE - 30" x 36" WITH 24" FRAME AND COVER
 CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
 OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
 INSTALL SPLICE BOX



NOTES:

1. PROVIDE A CONDUIT STUB AT HANDHOLE EXTENDING TO ONE FOOT PAST THE LIMITS OF SIDEWALK REPLACEMENT. PROVIDE A CONDUIT CAP FOR THE CONDUIT STUB. THE CONDUIT CAP WILL BE INCLUDED IN THE UNIT PRICE FOR THE CONDUIT OF SPECIFIED TYPE AND DIAMETER. NO SEPARATE PAYMENT WILL BE MADE. SEE IDOT CONTRACT NO. 62796 FOR LIMITS OF SIDEWALK REPLACEMENT.
2. ROUTE PROPOSED CONDUIT RUN TO THE EXISTING MANHOLE OR HANDHOLE AS SHOWN. DRILL THE EXISTING MANHOLE OR HANDHOLE AND INSTALL PROPOSED CONDUIT THROUGH THE MANHOLE OR HANDHOLE WALL. SEE DRAWING BOE-2 FOR DETAILS.

MATCH LINE
STATION 151+70
SEE SHEET 04-011

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: P.R.S./B.T.G.	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: P.R.S./B.T.G.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		DWG. NO. 04-010
GEN'L SUPT. OF ELECTRICITY:		DATE: 1/20/04
DEPUTY COMMISSIONER:		
SIZE: 22" x 36" SCALE: 1"=30'		
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 59th St. TO 47th St. (FRONTAGE ROADS)		
STREET LIGHTING UNDERGROUND CONDUIT FACILITIES		
SCALE: 1" = 30'		DRAWN BY: B.T.G.
DATE: February 11, 2005		CHECKED BY: O.L.

REVISIONS	
NAME	DATE

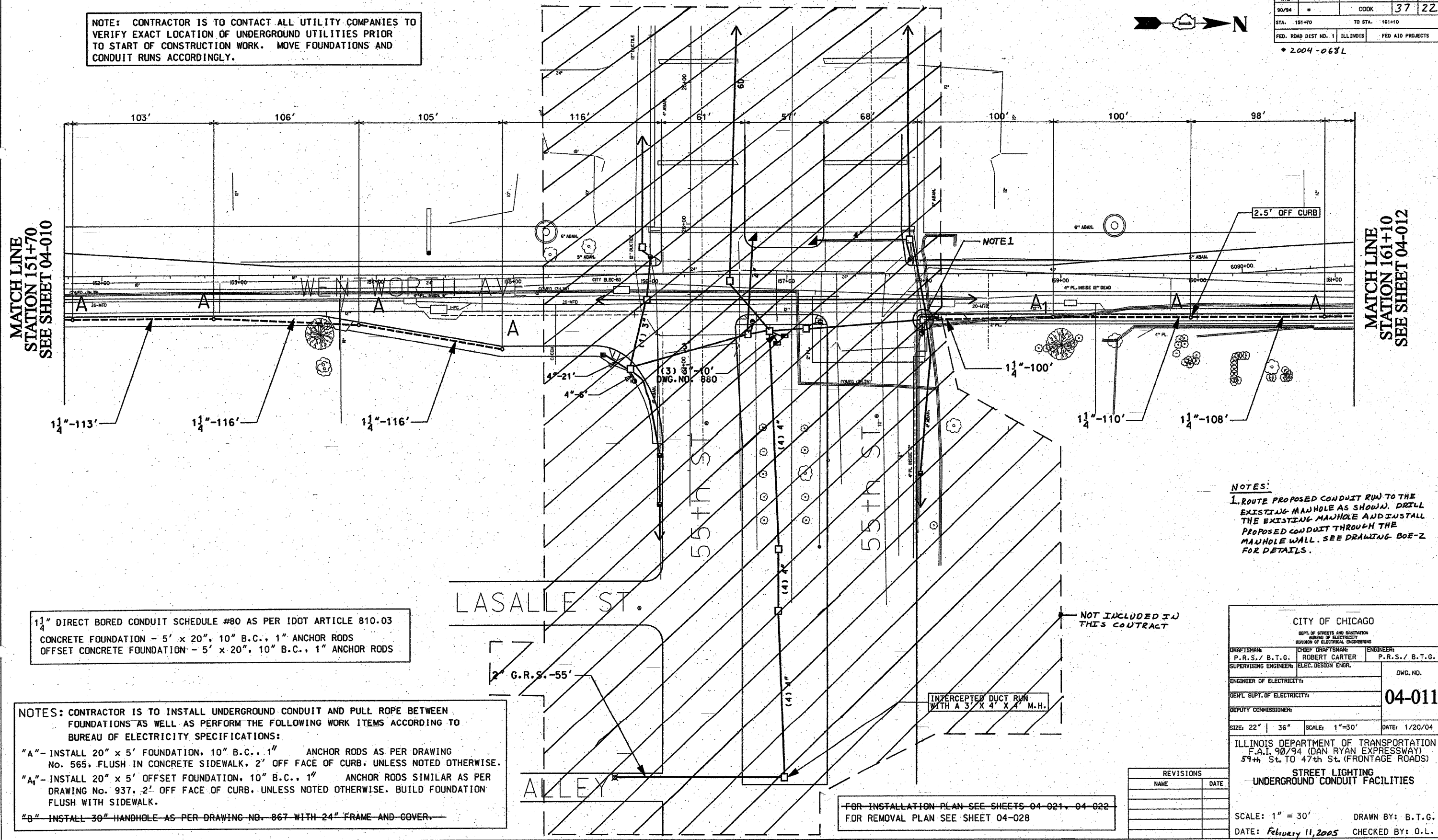
62807

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	37	22
STA. 151+70	TO STA. 161+10			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECTS		

2004-068L



NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.



MATCH LINE
STATION 151+70
SEE SHEET 04-010

MATCH LINE
STATION 161+10
SEE SHEET 04-012

1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE B10.03
CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:
 "A" - INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING No. 565. FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.
 "A1" - INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1" ANCHOR RODS SIMILAR AS PER DRAWING No. 937. 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.
 "B" - INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

NOTES:
 1. ROUTE PROPOSED CONDUIT RUN TO THE EXISTING MANHOLE AS SHOWN. DRILL THE EXISTING MANHOLE AND INSTALL PROPOSED CONDUIT THROUGH THE MANHOLE WALL. SEE DRAWING BOE-2 FOR DETAILS.

NOT INCLUDED IN THIS CONTRACT

INTERCEPTED DUCT RUN WITH A 3' X 4' X 4' M.H.

FOR INSTALLATION PLAN SEE SHEETS 04-021, 04-022
 FOR REMOVAL PLAN SEE SHEET 04-028

CITY OF CHICAGO		
DEPT. OF STREETS AND SANITATION		
BUREAU OF ELECTRICITY		
DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
P.R.S./B.T.G.	ROBERT CARTER	P.R.S./B.T.G.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		DWG. NO.
GEN'L. SUPT. OF ELECTRICITY:		04-011
DEPUTY COMMISSIONER:		
SIZE: 22" 36"	SCALE: 1"=30'	DATE: 1/20/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th St. TO 47th St. (FRONTAGE ROADS)

STREET LIGHTING
 UNDERGROUND CONDUIT FACILITIES

SCALE: 1" = 30'
 DATE: February 11, 2005
 DRAWN BY: B.T.G.
 CHECKED BY: O.L.

REVISIONS	
NAME	DATE

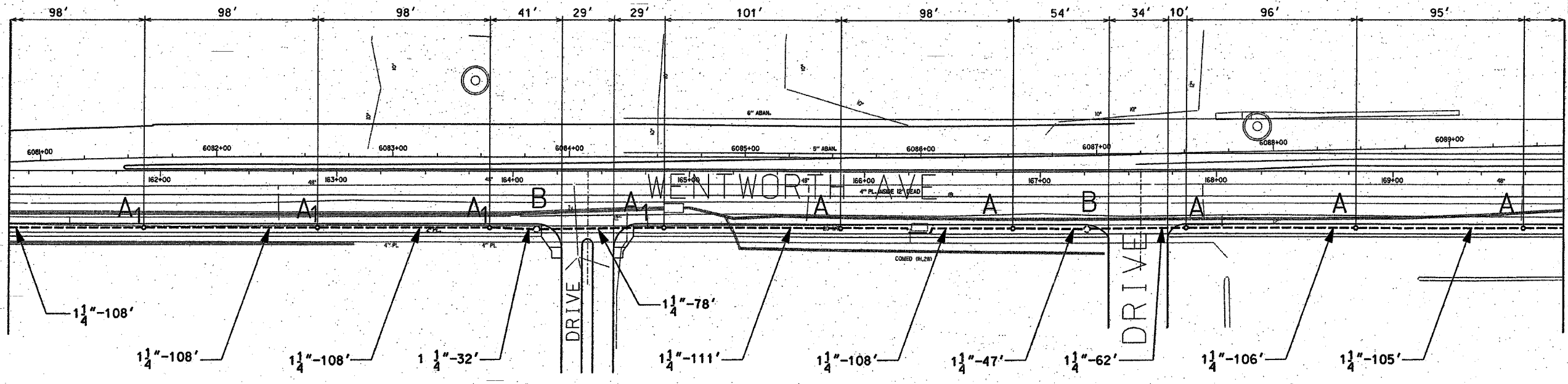
62807

F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	37	23
STA. 161+10	TO STA. 176+30			
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECTS		

* 2004-063L

MATCH LINE
STATION 161+10
SEE SHEET 04-011

MATCH LINE
STATION 169+95

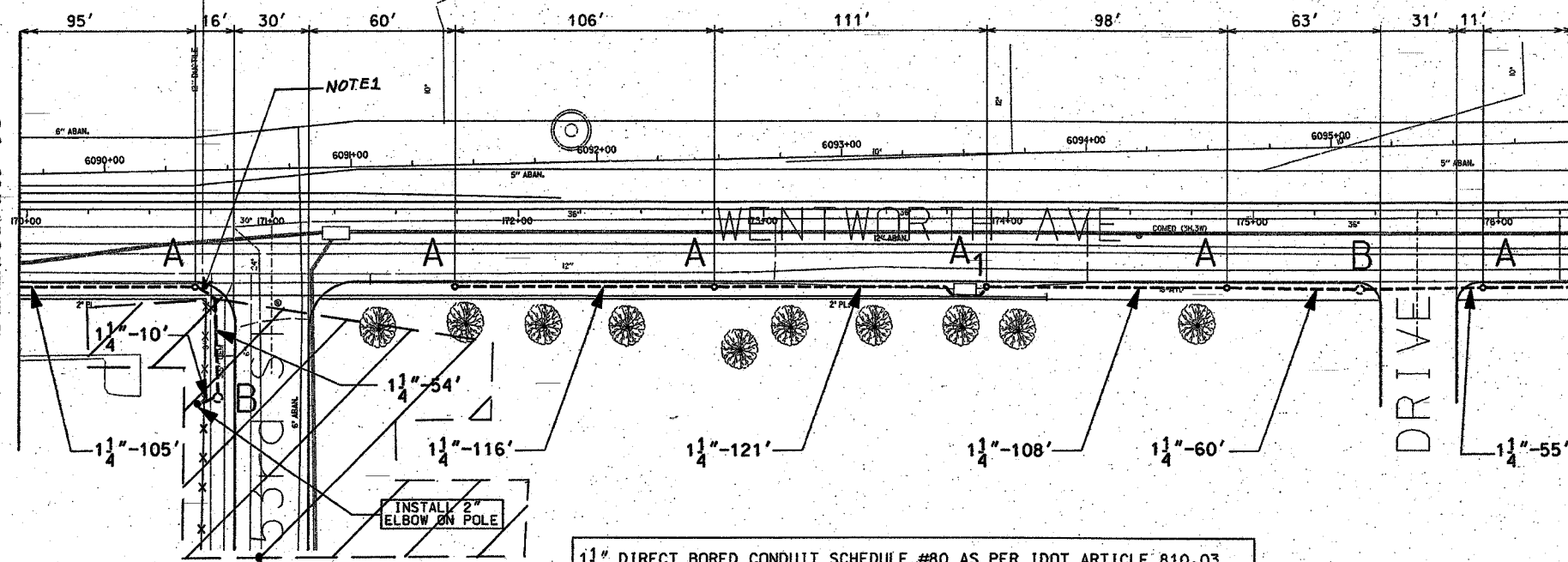


NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:
 "A"- INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565. FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.
 "A₁"- INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1" ANCHOR RODS SIMILAR AS PER DRAWING NO. 937, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.
 "B"- INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

MATCH LINE
STATION 169+95

MATCH LINE
STATION 176+30
SEE SHEET 04-013



NOTES:
 1. PROVIDE A CONDUIT STUB AT HANDHOLE EXTENDING TO ONE FOOT PAST THE LIMITS OF SIDEWALK REPLACEMENT. PROVIDE A CONDUIT CAP FOR THE CONDUIT STUB. THE CONDUIT CAP WILL BE INCLUDED IN THE UNIT PRICE FOR THE CONDUIT OF SPECIFIED TYPE AND DIAMETER. NO SEPARATE PAYMENT WILL BE MADE. SEE IDOT CONTRACT NO. 62796 FOR LIMITS OF SIDEWALK REPLACEMENT.

1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
 HAND HOLE - 30" x 36" WITH 24" FRAME AND COVER
 CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
 OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
 2" GALVANIZED RIGID STEEL ELBOW ON STRUCTURE

FOR INSTALLATION PLAN SEE SHEET 04-022
 FOR REMOVAL PLAN SEE SHEET 04-028

NOT INCLUDED IN THIS CONTRACT

CITY OF CHICAGO		
DEPT. OF STREETS AND SANITATION		
BUREAU OF ELECTRICITY		
DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN P.R.S./ B.T.G.	CHIEF DRAFTSMAN ROBERT CARTER	ENGINEER P.R.S./ B.T.G.
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		04-012
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		DATE: 1/20/04
SIZE: 22" 36"	SCALE: 1"=30'	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th St. TO 47th St. (FRONTAGE ROADS)

STREET LIGHTING
 UNDERGROUND CONDUIT FACILITIES

SCALE: 1" = 30'
 DATE: February 11, 2005
 DRAWN BY: B.T.G.
 CHECKED BY: O.L.

REVISIONS	
NAME	DATE

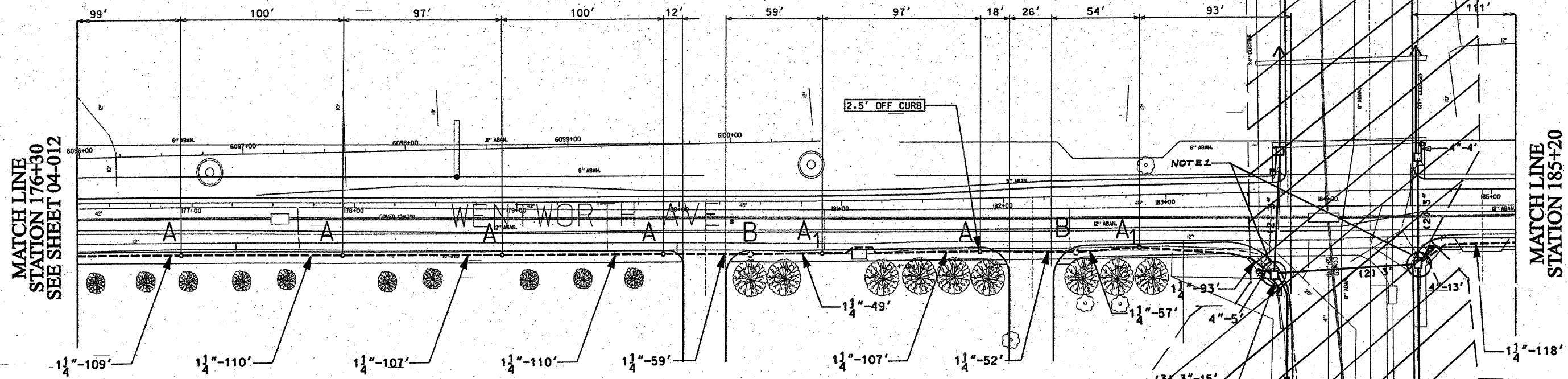
62807

F. A. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	37	24
STA. 176+00		TO STA. 191+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED AID PROJECTS		

* 2004-068L

NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.

FOR INSTALLATION PLAN SEE SHEETS 04-022, 04-023
FOR REMOVAL PLAN SEE SHEET 04-028, 04-029



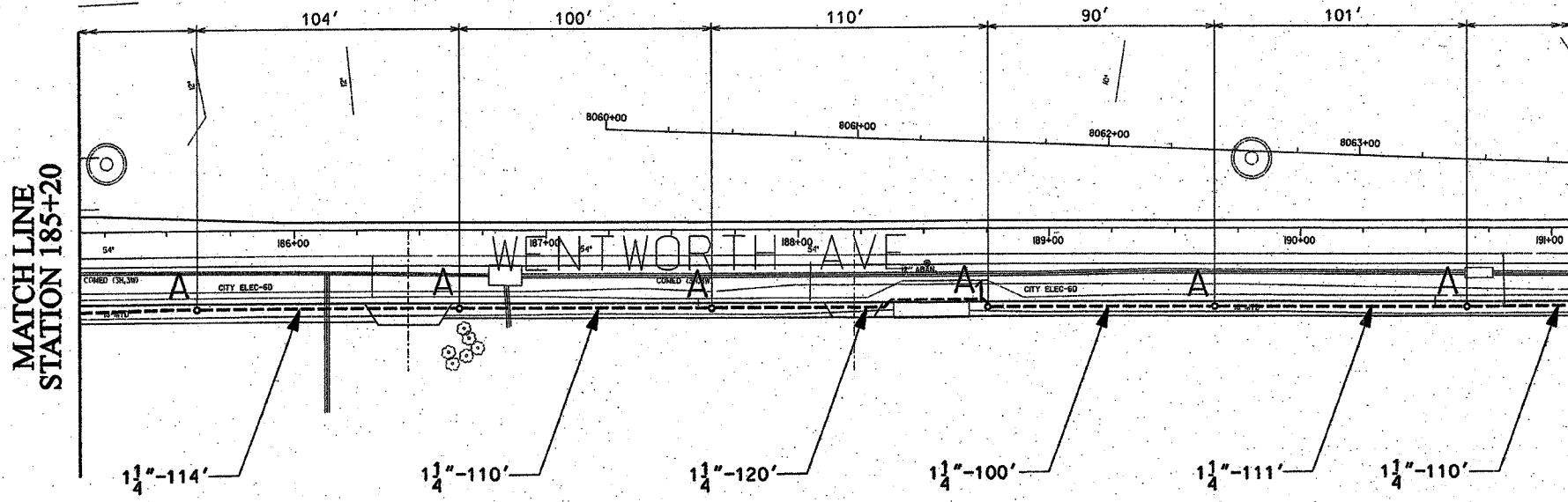
MATCH LINE
STATION 176+30
SEE SHEET 04-012

MATCH LINE
STATION 185+20

1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
HAND HOLE - 30" x 36" WITH 24" FRAME AND COVER
CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS

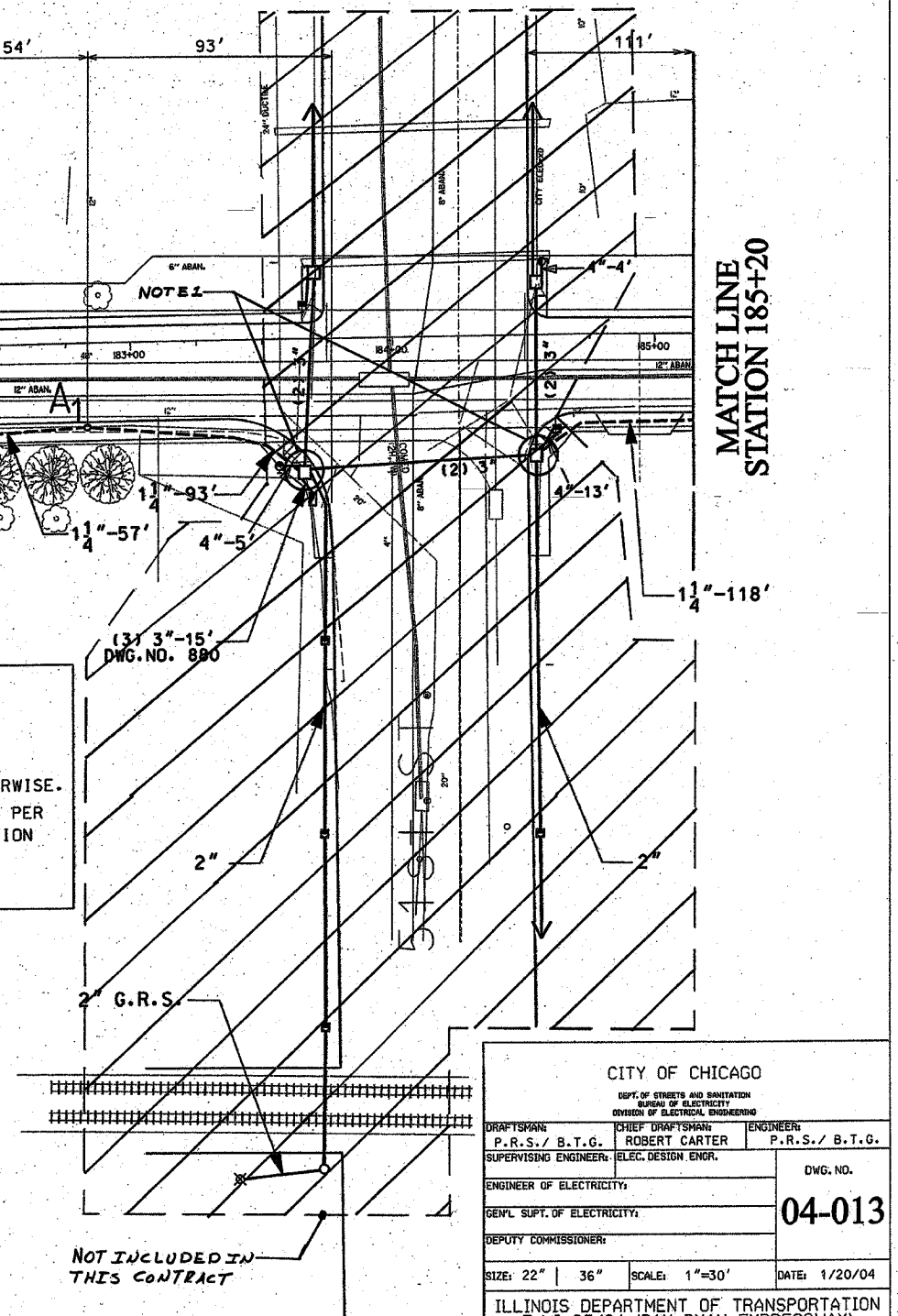
NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:
"A" - INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565. FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.
"A1" - INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1" ANCHOR RODS SIMILAR AS PER DRAWING NO. 937, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.
"B" - INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

NOTES:
1. ROUTE PROPOSED CONDUIT RUN TO EXISTING MAW HOLE AS SHOWN. DRILL EXISTING MAW HOLE AND INSTALL PROPOSED CONDUIT THROUGH MAW HOLE WALL. SEE DRAWING BOE-2 FOR DETAILS.



MATCH LINE
STATION 185+20

MATCH LINE
STATION 191+05
SEE SHEET 04-014



NOT INCLUDED IN THIS CONTRACT

CITY OF CHICAGO		
DEPT. OF STREETS AND SANITATION		
BUREAU OF ELECTRICITY		
DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
P. R. S. / B. T. G.	ROBERT CARTER	P. R. S. / B. T. G.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		DWG. NO.
GEN'L SUPT. OF ELECTRICITY:		04-013
DEPUTY COMMISSIONER:		
SIZE: 22" 36"	SCALE: 1"=30'	DATE: 1/20/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th St. TO 47th St. (FRONTAGE ROADS)

STREET LIGHTING
UNDERGROUND CONDUIT FACILITIES

SCALE: 1" = 30'
DATE: February 11, 2005
DRAWN BY: B.T.G.
CHECKED BY: O.L.

REVISIONS	
NAME	DATE

62807

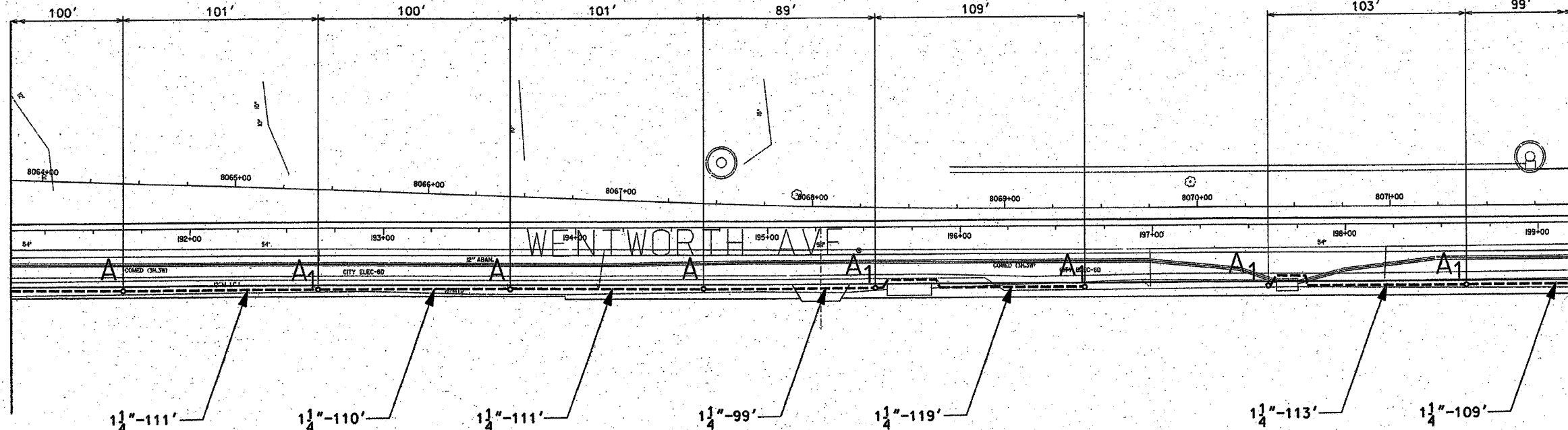


NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.

F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	37	25
STA. 191+05	TO STA. 204+00			
FED. ROAD DIST NO. 1	ILLINOIS	FED AID PROJECTS		

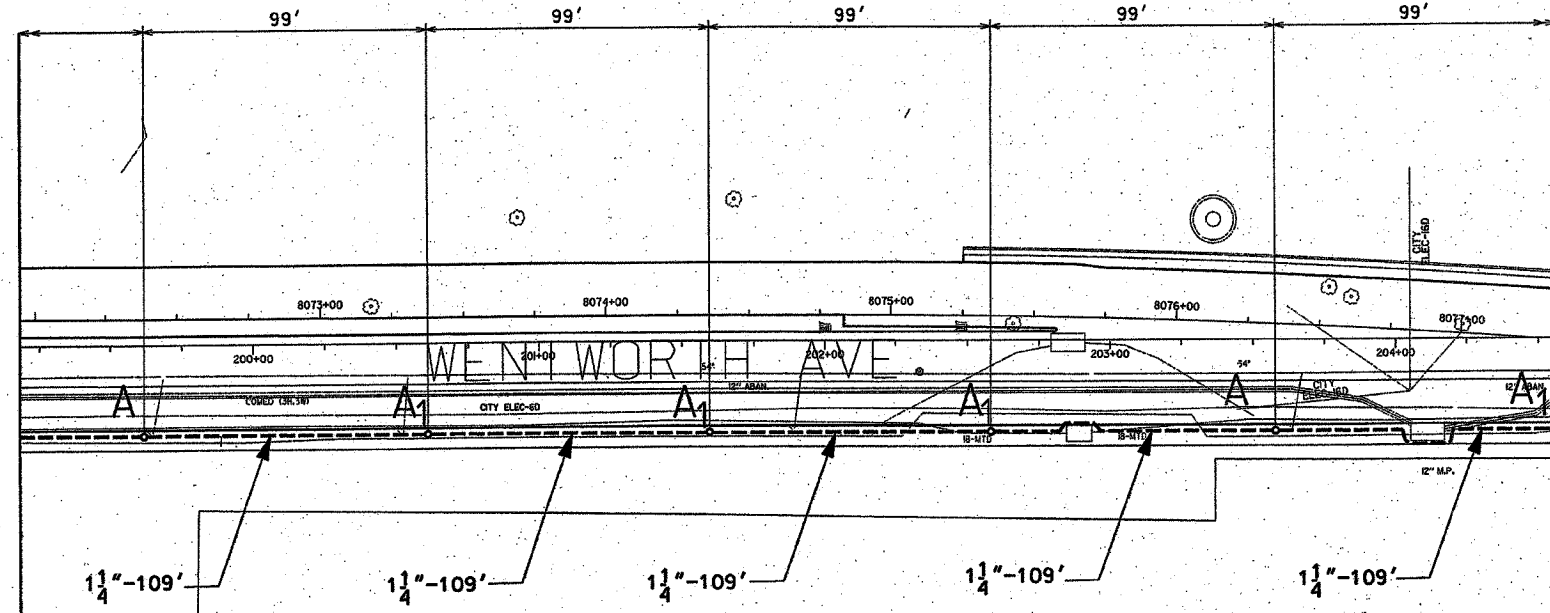
* 2004-068 L

MATCH LINE
STATION 191+05
SEE SHEET 04-013



MATCH LINE
STATION 199+15

MATCH LINE
STATION 199+15



MATCH LINE
STATION 204+60
SEE SHEET 04-015

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:
 "A" - INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565, FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.
 "A1" - INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1" ANCHOR RODS SIMILAR AS PER DRAWING NO. 937, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.
 "B" - INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
 CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
 OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS

FOR INSTALLATION PLAN SEE SHEET 04-023
 FOR REMOVAL PLAN SEE SHEET 04-029

CITY OF CHICAGO
 DEPT. OF STREETS AND SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: P.R.S./ B.T.G.	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: P.R.S./ B.T.G.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		DWG. NO.
GEN'L SUPT. OF ELECTRICITY:		04-014
DEPUTY COMMISSIONER:		

SIZE: 22" x 36" SCALE: 1"=30' DATE: 1/20/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th St. TO 47th St. (FRONTAGE ROADS)

STREET LIGHTING
 UNDERGROUND CONDUIT FACILITIES

SCALE: 1" = 30'
 DATE: February 11, 2005
 DRAWN BY: B.T.G.
 CHECKED BY: O.L.

REVISIONS	
NAME	DATE

62307

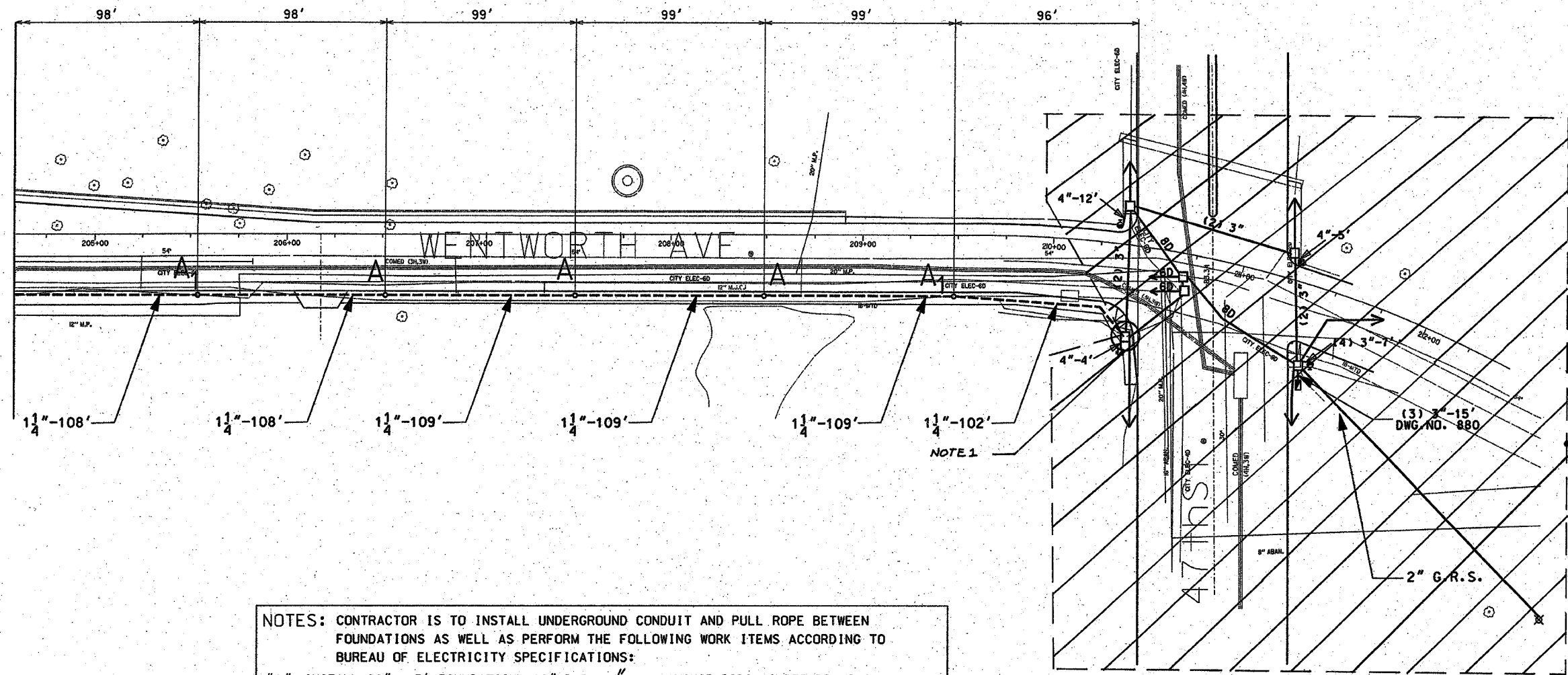


F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	37	26
STA: 204+60	TO STA: 212+25			
FED. ROAD DIST NO. 1	ILLINOIS	FED AID PROJECTS		

* 2004-067L

NOTE: CONTRACTOR IS TO CONTACT ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION WORK. MOVE FOUNDATIONS AND CONDUIT RUNS ACCORDINGLY.

MATCH LINE
STATION 204+60
SEE SHEET 04-014



NOT INCLUDED IN THIS CONTRACT

NOTES: CONTRACTOR IS TO INSTALL UNDERGROUND CONDUIT AND PULL ROPE BETWEEN FOUNDATIONS AS WELL AS PERFORM THE FOLLOWING WORK ITEMS ACCORDING TO BUREAU OF ELECTRICITY SPECIFICATIONS:

"A"- INSTALL 20" x 5' FOUNDATION, 10" B.C., 1" ANCHOR RODS AS PER DRAWING NO. 565. FLUSH IN CONCRETE SIDEWALK, 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE.

"A₁"- INSTALL 20" x 5' OFFSET FOUNDATION, 10" B.C., 1" ANCHOR RODS SIMILAR AS PER DRAWING NO. 937. 2' OFF FACE OF CURB, UNLESS NOTED OTHERWISE. BUILD FOUNDATION FLUSH WITH SIDEWALK.

"B"- INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER.

1 1/4" DIRECT BORED CONDUIT SCHEDULE #80 AS PER IDOT ARTICLE 810.03
CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS
OFFSET CONCRETE FOUNDATION - 5' x 20", 10" B.C., 1" ANCHOR RODS

FOR INSTALLATION PLAN SEE SHEET 04-023
FOR REMOVAL PLAN SEE SHEET 04-029

NOTES:
1. ROUTE PROPOSED CONDUIT RUN TO EXISTING MAWHOLE AS SHOWN. DRILL THE EXISTING MAWHOLE AND INSTALL PROPOSED CONDUIT THROUGH MAWHOLE WALL. SEE DRAWING 30E-2 FOR DETAILS.

REVISIONS	
NAME	DATE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

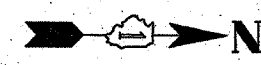
DRAFTSMAN P. R. S. / B. T. G.	CHIEF DRAFTSMAN ROBERT CARTER	ENGINEER P. R. S. / B. T. G.
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		04-015
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22" 36"	SCALE: 1"=30'	DATE: 1/20/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
57th St. TO 47th St. (FRONTAGE ROADS)

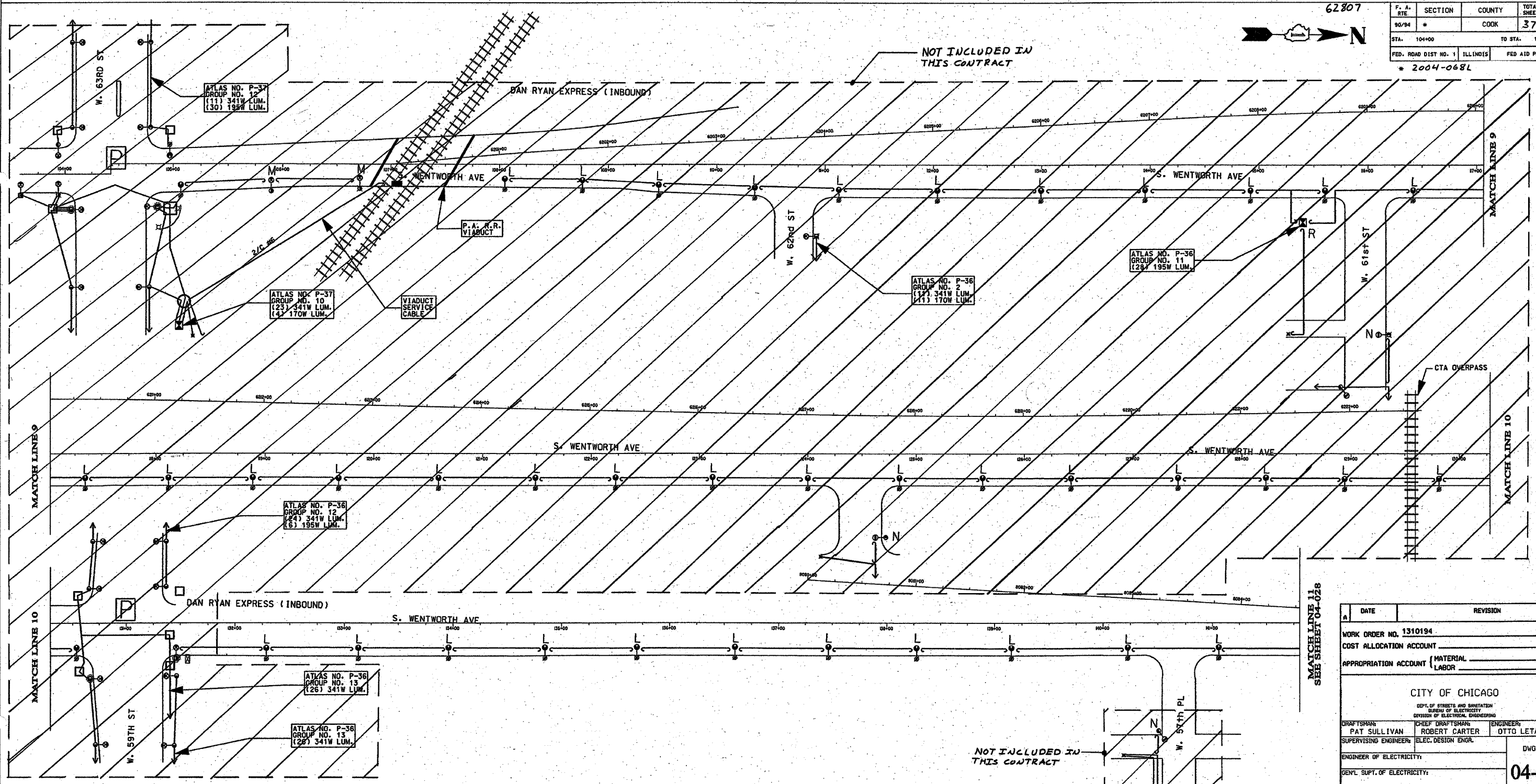
STREET LIGHTING
UNDERGROUND CONDUIT FACILITIES

SCALE: 1" = 30'
DATE: February 11, 2005
DRAWN BY: B.T.G.
CHECKED BY: O.L.

62807



F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
90/94	*	COOK	37	27
STA. 104+00		TO STA. 141+80		
FED. ROAD DIST. NO. 1		ILLINOIS		FED AID PROJECTS
* 2004-0681				



NOT INCLUDED IN THIS CONTRACT

NOT INCLUDED IN THIS CONTRACT

MATCH LINE 11 SEE SHEET 04-028

- NOTES:
- "L" - REMOVE EMBEDDED STEEL POLE WITH LUMINAIRE AND MAST ARM.
 - "M" - REMOVE ANCHOR BASE STEEL POLE WITH LUMINAIRE AND MAST ARM. BREAKDOWN FOUNDATION COMPLETE.
 - "N" - REMOVE AND RELOCATE ANCHOR BASE STEEL POLE.
 - "P" - SEPARATE CONTRACTOR TO REPLAC EXISTING STREET LIGHTS AT INTERSECTION.
 - "R" - REMOVE POST MOUNTED STREET LIGHT CONTROLLER, REMOVE SERVICE EQUIPMENT, AND BREAKDOWN FOUNDATION COMPLETE.

FOR UNDERGROUND PLAN SEE SHEETS 04-008, 04-009, 04-010
 FOR INSTALLATION PLAN SEE SHEETS 04-026, 04-027

DATE	REVISION

WORK ORDER NO. 1310194
 COST ALLOCATION ACCOUNT
 APPROPRIATION ACCOUNT (MATERIAL LABOR)

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN PAT SULLIVAN	CHIEF DRAFTSMAN ROBERT CARTER	ENGINEER OTTO LETAMENDI
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.	DWG. NO. 04-027
ENGINEER OF ELECTRICITY:		
GEN'L. SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		

SIZE: 22" | 36" SCALE: NONE DATE: 1/12/84

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 59th St. TO 47th St. (FRONTAGE ROADS)

REMOVAL OF STREET LIGHTING EQUIPMENT

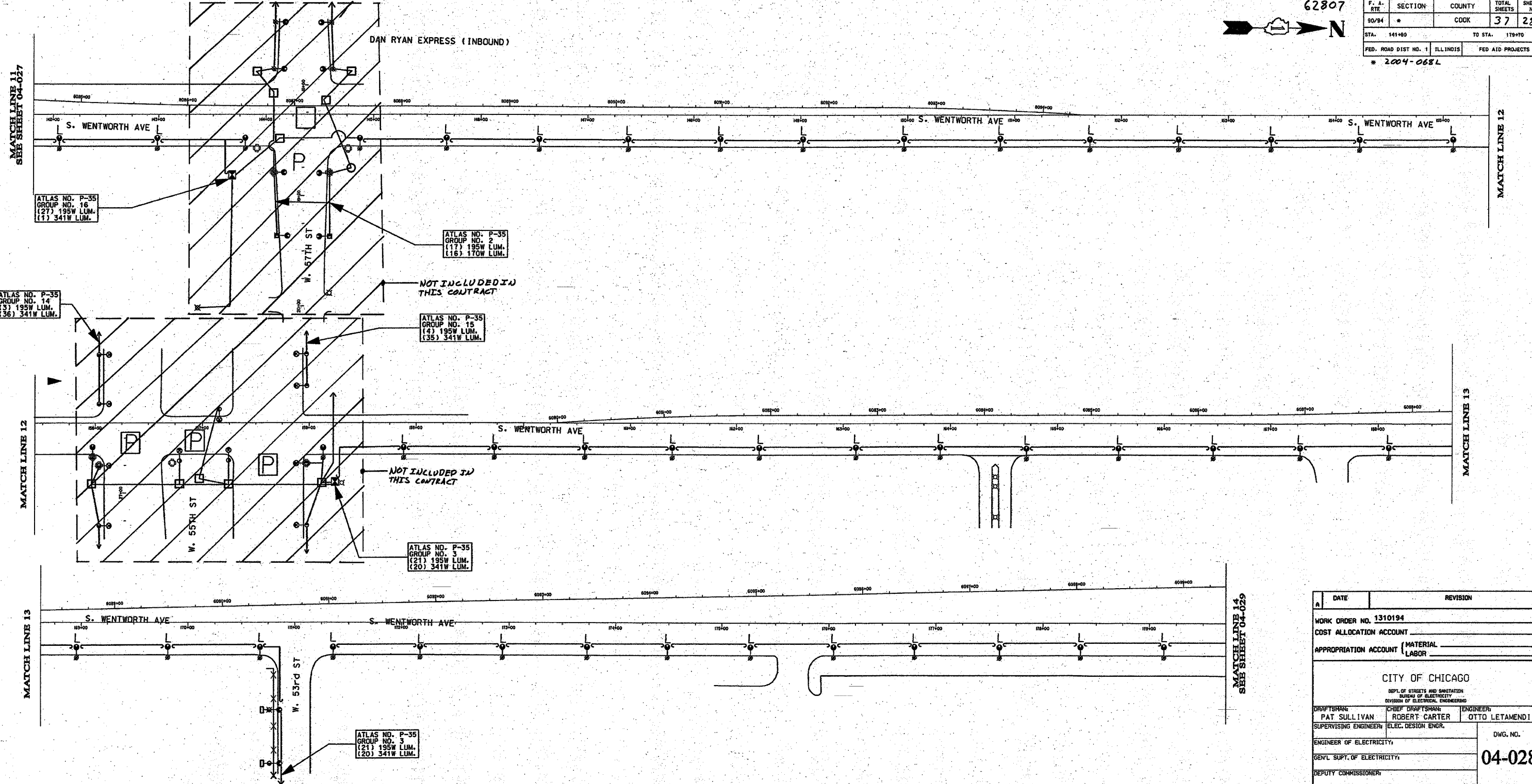
SCALE: NONE DRAWN BY: P.R.S.
 DATE: February 11, 2005 CHECKED BY: O.L.

REVISIONS	
NAME	DATE

62807



F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	37	28
STA. 141+00			TO STA. 178+70	
FED. ROAD DIST. NO. 1		ILLINOIS	FED AID PROJECTS	
* 2004-068L				



MATCH LINE 11
SEE SHEET 04-027

MATCH LINE 12

MATCH LINE 12

MATCH LINE 13

MATCH LINE 13

MATCH LINE 14
SEE SHEET 04-029

NOTES:

"L" - REMOVE EMBEDDED STEEL POLE WITH LUMINAIRE AND MAST ARM.

"P" - SEPARATE CONTRACTOR TO REPLACE EXISTING STREET LIGHTS AT INTERSECTION.

FOR UNDERGROUND PLAN SEE SHEETS 04-010, 04-011, 04-012, 04-013
 FOR INSTALLATION PLAN SEE SHEETS 04-021, 04-023

A	DATE	REVISION
WORK ORDER NO. 1310194		
COST ALLOCATION ACCOUNT _____		
APPROPRIATION ACCOUNT (MATERIAL LABOR)		
CITY OF CHICAGO		
DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN	CHIEF DRAFTSMAN	ENGINEER
PAT SULLIVAN	ROBERT CARTER	OTTO LETAMENDI
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		04-028
GEN'L Supt. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22" 36"	SCALE: NONE	DATE: 1/12/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 57th St. TO 47th St. (FRONTAGE ROADS)

REMOVAL OF STREET LIGHTING EQUIPMENT

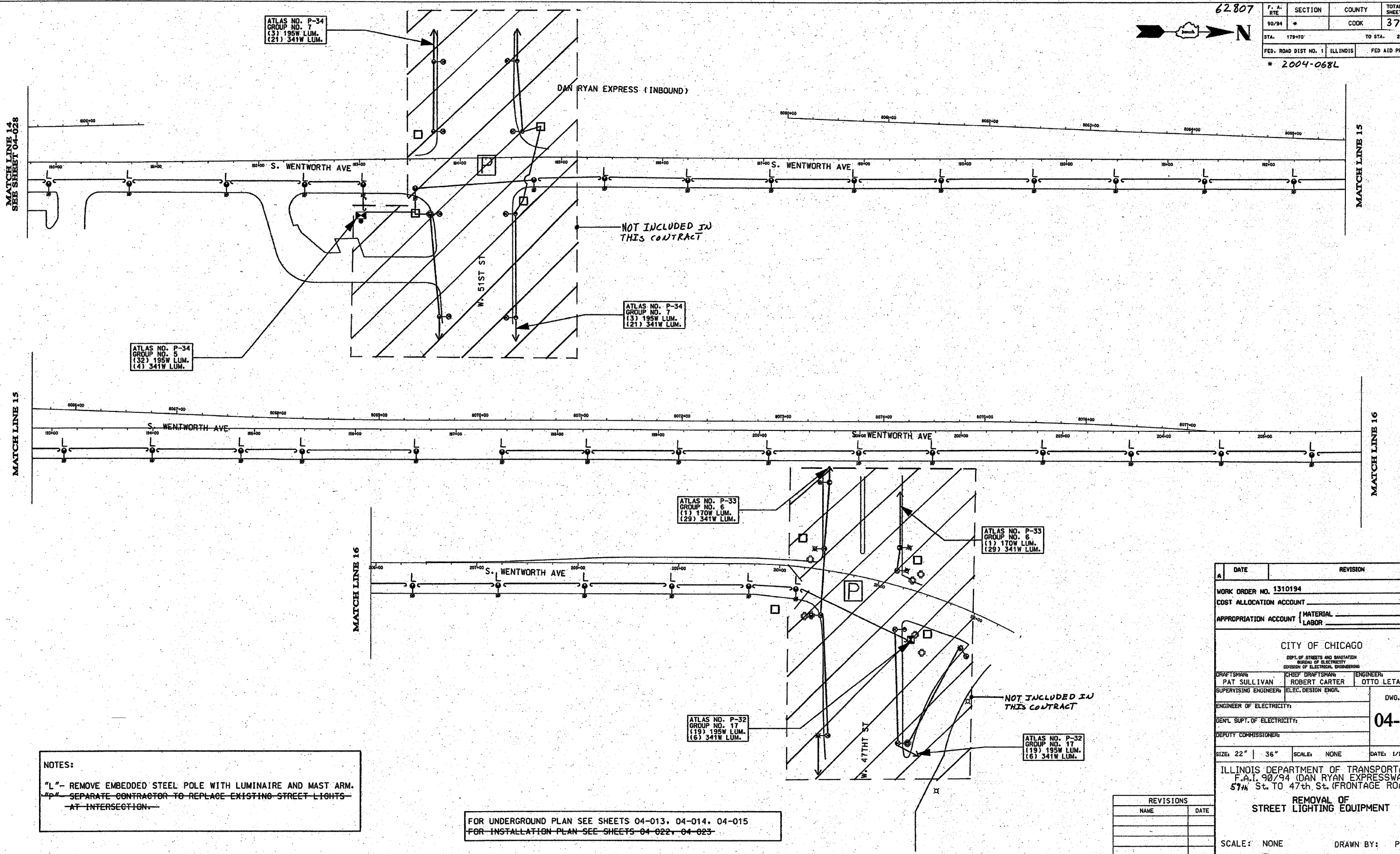
SCALE: NONE DRAWN BY: P.R.S.
 DATE: February 11, 2005 CHECKED BY: O.L.

REVISIONS	
NAME	DATE

62.807



F. A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	37	29
STA. 178+00		TO STA. 212+00		
FED. ROAD DIST NO. 1		ILLINOIS		FED AID PROJECTS
* 2004-068L				



ATLAS NO. P-34
GROUP NO. 5
(32) 195W LUM.
(14) 341W LUM.

ATLAS NO. P-34
GROUP NO. 7
(3) 195W LUM.
(21) 341W LUM.

ATLAS NO. P-34
GROUP NO. 7
(3) 195W LUM.
(21) 341W LUM.

ATLAS NO. P-33
GROUP NO. 6
(1) 170W LUM.
(29) 341W LUM.

ATLAS NO. P-33
GROUP NO. 6
(1) 170W LUM.
(29) 341W LUM.

ATLAS NO. P-32
GROUP NO. 17
(19) 195W LUM.
(6) 341W LUM.

ATLAS NO. P-32
GROUP NO. 17
(19) 195W LUM.
(6) 341W LUM.

NOTES:
"L" - REMOVE EMBEDDED STEEL POLE WITH LUMINAIRE AND MAST ARM.
"M" - SEPARATE CONTRACTOR TO REPLACE EXISTING STREET LIGHTS AT INTERSECTION.

FOR UNDERGROUND PLAN SEE SHEETS 04-013, 04-014, 04-015
FOR INSTALLATION PLAN SEE SHEETS 04-022, 04-023

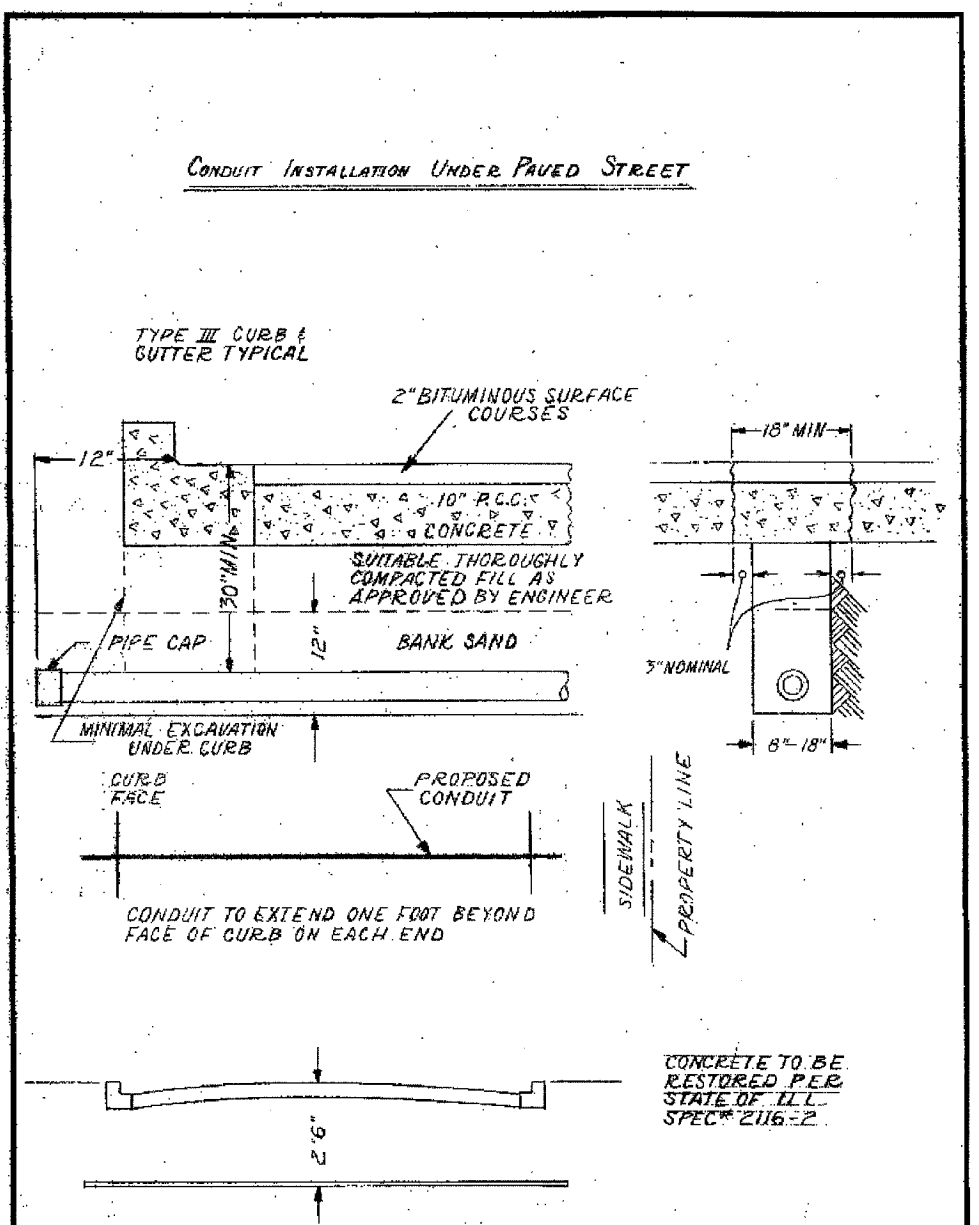
DATE	REVISION
WORK ORDER NO. 1310194	
COST ALLOCATION ACCOUNT	
APPROPRIATION ACCOUNT (MATERIAL)	
LABOR	
CITY OF CHICAGO	
DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN PAT SULLIVAN	CHIEF DRAFTSMAN ROBERT CARTER
SUPERVISING ENGINEER	ENGINEER OTTO LETAMENDI
ENGINEER OF ELECTRICITY:	
GEN'L SUPT. OF ELECTRICITY:	
DEPUTY COMMISSIONER:	
SIZE: 22" 36"	SCALE: NONE
DATE: 1/12/04	
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.T. 90/94 (DAN RYAN EXPRESSWAY) 57th St. TO 47th St. (FRONTAGE ROADS)	
REMOVAL OF STREET LIGHTING EQUIPMENT	
SCALE: NONE	
DRAWN BY: P.R.S.	
DATE: February 11, 2005	
CHECKED BY: O.L.	

REVISIONS	
NAME	DATE

DWG. NO.
04-029

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	31
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

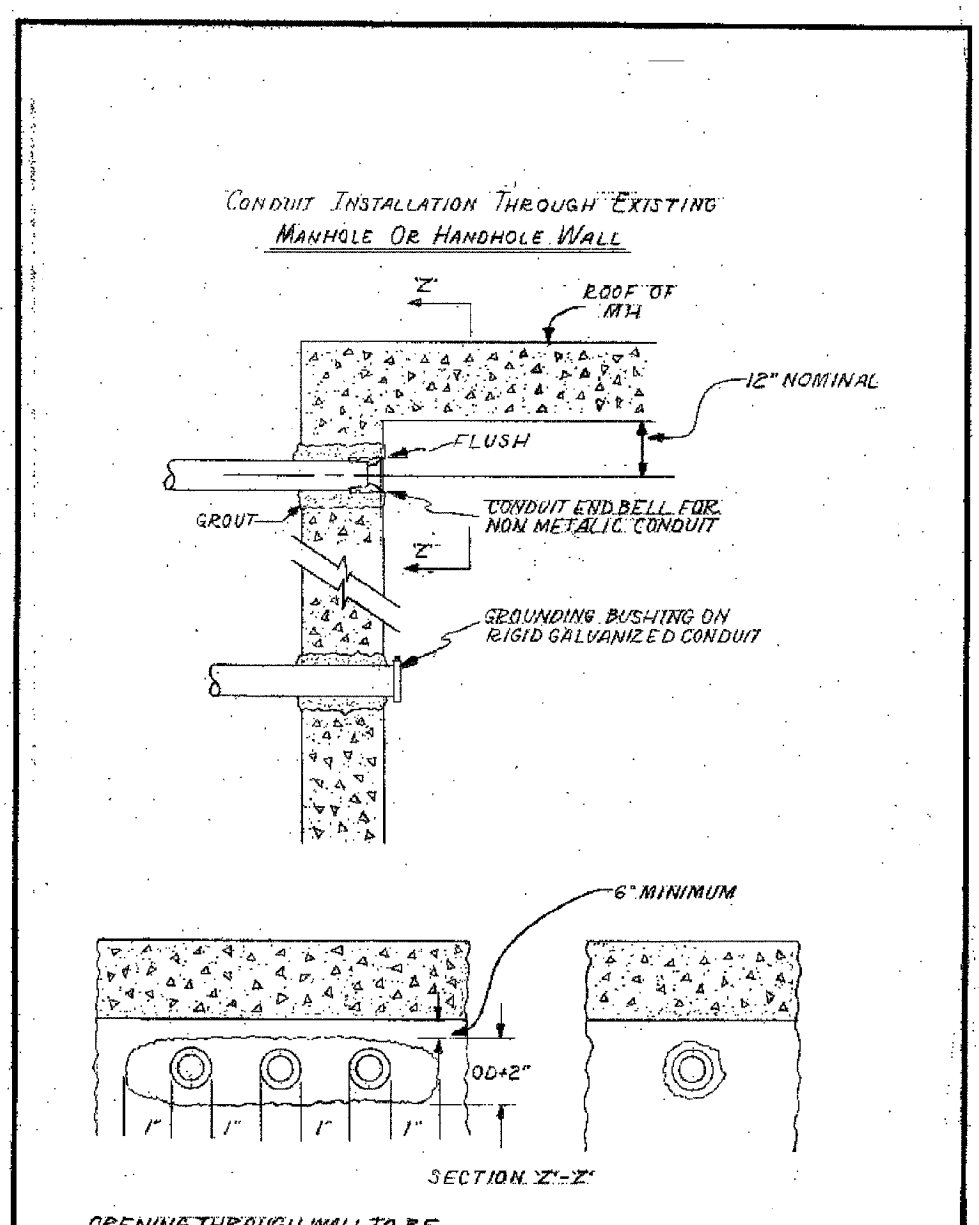
62807



**INSTALLATION METHOD OF
INSTALLING CONDUIT UNDER
PAVED ROADWAY**

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN A.M. JOHNSON	CHECKED R. SYCOWSKI	FORWARDED R.L. MARTIN
 ENGINEER OF ELECTRICITY 813		 ENGINEER OF ELECTRICITY 814
 8 1/2" X 14" SCALE		



**INSTALLATION METHOD OF
INSTALLING CONDUIT THRU
MANHOLE WALL**

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN A.M. JOHNSON	CHECKED R. SYCOWSKI	FORWARDED R.L. MARTIN
 ENGINEER OF ELECTRICITY 813		 ENGINEER OF ELECTRICITY 814
 8 1/2" X 14" SCALE		

REVISIONS	
NAME	DATE

BOE-2

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

BOE STANDARD DETAILS

SCALE: NONE DRAWN BY: HAR
DATE: February 11, 2005 CHECKED BY: WDS

V:\Tech\ITV\40468\40468-LE\94\14-CHT\9\CONTRACT\981\9\BOE\90130022A.DWG

02/10/2005 09:42:38 AM

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"X7" 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", 3GA., 11" DIA. AND 17 1/4" B.C. 30"X9" FND. W/1 1/4" ANCHOR RODS DRG. #816. (30", 40" or 44" 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 DRG. #719.
- POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
- POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #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 DRG. #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)
- POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS

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)
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 310W LAMP, 240V
- LUMINAIRE, H.P.S.V. 310W LAMP 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 150W LAMP, 240V
- LUMINAIRE, H.P.S.V. 150W LAMP, 120V
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V. (ALLEY LIGHT)
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V
- TERMINAL, CABINET F.A. & P.C.
- FIRE ALARM BOX, MOUNTED
- FIRE ALARM BOX, POLE MOUNTED
- PR CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
- 2 CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #1, 600 V. EPR. IN CONDUIT
- 11 CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
- 11 CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSRI, IN CONDUIT
- 11 CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
- 11 CABLE, TRAFFIC SIGNAL, 10/C-#12 600V. EPR IN CONDUIT
- 11 CABLE, TRAFFIC SIGNAL, 14/C-#14, 600V. EPR IN CONDUIT
- 11 CABLE, TRAFFIC SIGNAL, 19/C-#12 600V. EPR IN CONDUIT
- 2N CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
- 2NC CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
- 3TC CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
- 3NC CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
- 2W WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
- 3W WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
- 11 CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
- W FA WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
- PR CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
- PR CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
- 37 PR CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
- DOWNLIGHT ASSEMBLY. (DWG. #850)
- LIGHT, TRAFFIC SAFETY ISLAND
- FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES

PROPOSED	EXISTING	
⊙	⊙	310W PENDANT (240V)
⊙	⊙	400W PENDANT (240V)
⊙	⊙	250W PENDANT (240V)
⊙	⊙	150W ACORN (120V)
⊙	⊙	150W ACORN (240V)
⊙	⊙	50W ACORN (240V)
⊙	⊙	100W ACORN (240V)
⊙	⊙	150W GLOBE (240V)
⊙	⊙	100W GLOBE (240V)
⊙	⊙	50W GLOBE (240V)

C 04-01-02	REVISED/REDRAW	R. POOL/B.I.
B 12-4-01	ADDED ORNAMENTAL SYMBOLS	
A 8-6-96	REDRAWN	
DATE	REVISION	
STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN R. IVY	CHIEF DRAFTSMAN R. CARTER	ENGINEER R. POOL/R.C./W.T.
SUPERVISING ENGINEER R. POOL	ELEC. DESIGNER R. POOL	DWG. NO. 826
ENGINEER OF ELECTRICALITY R. POOL	DEPT. BUREAU OF CONSTRUCTION DEPUTY COMMISSIONER R. POOL	DATE:
SIZE: 22" X 36"	SCALE:	

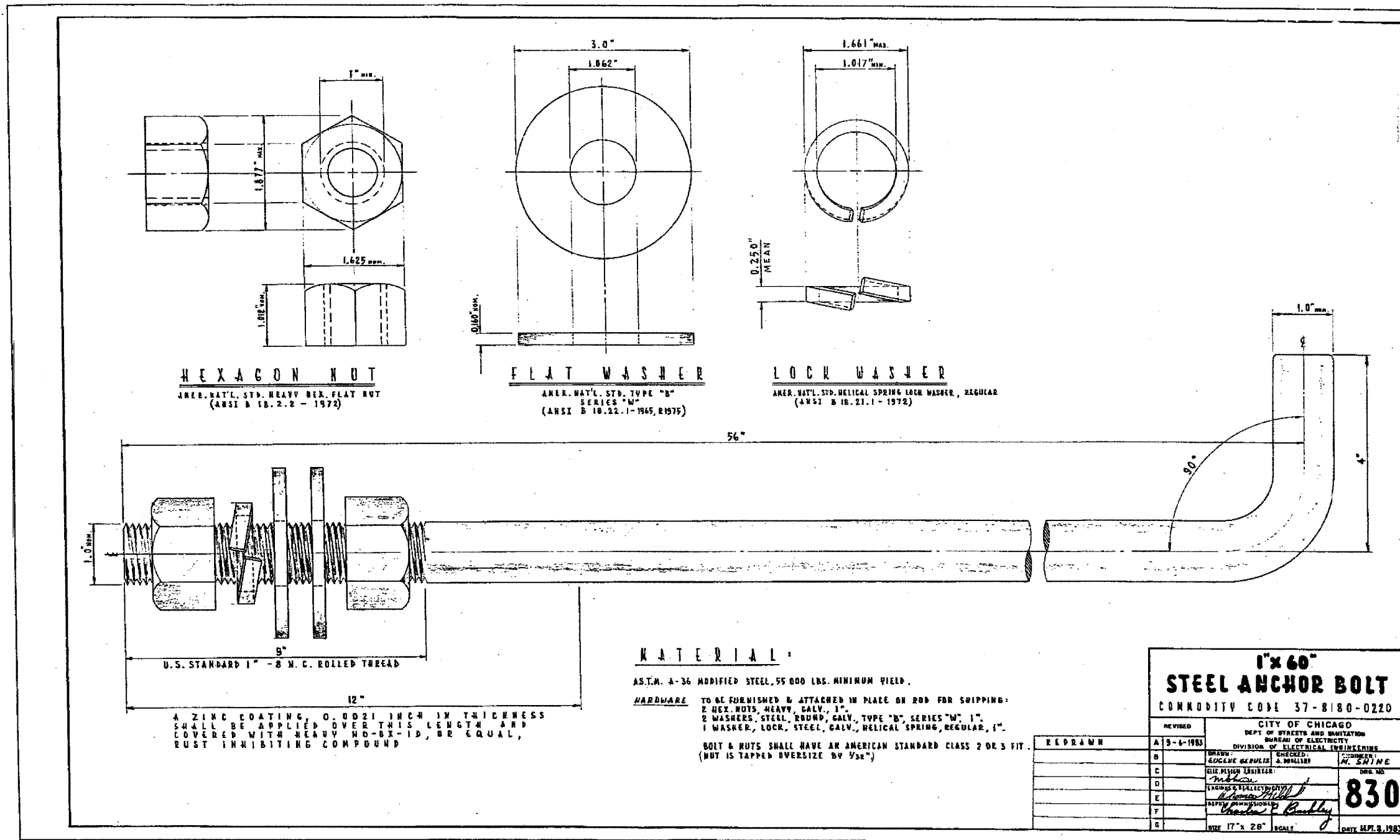
BOE-3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

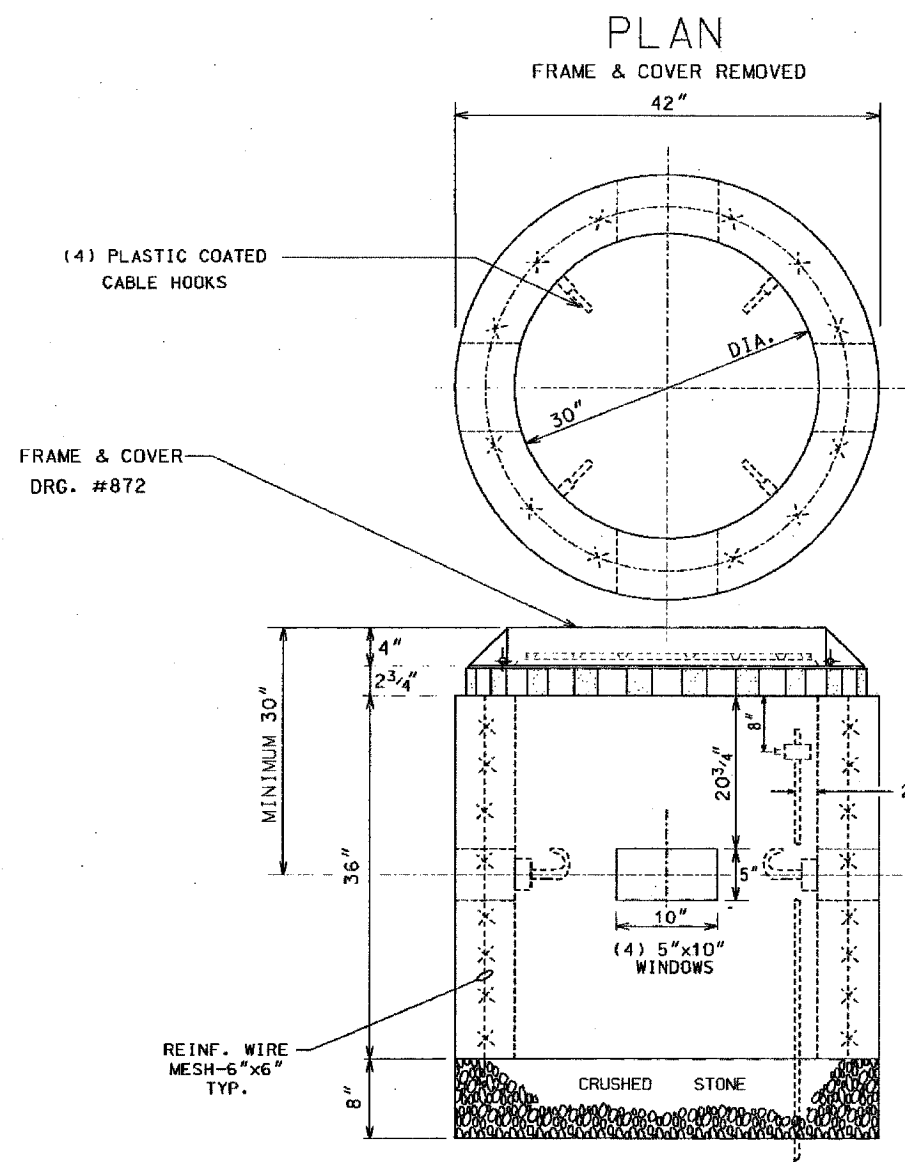
BOE STANDARD DETAILS

SCALE: NONE DRAWN BY: HAR
DATE: February 11, 2005 CHECKED BY: WDS



REVISIONS	
NAME	DATE

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COMPLETE COMMODITY CODE NO. 05-6610-5310M

CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5310	PRE-CAST HANDHOLE	30"X36"	1
(2) 05-9075-5470	STONE 3/4" CRUSHED	BAG	5
(2) 05-5082-5330	SONO TUBE	30"	1
(2) 05-5082-5342	SONO TUBE	42"	1
(2) 05-3267-2940	CONC. REDI-MIX	CU. YD.	1/2
(2) 57-0770-0000	6" X 6" MESH	36"X10'	1
05-1452-9720	BRICK		24
02-4299-5524	FRAME MANHOLE	24"	1
02-4574-5040	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4"X12'	1
09-2630-3240	GROUND CLAMP		1

- (1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCKOUTS.
- (2) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.

CONSTRUCTION NOTES:

- 8" BED OF STONE FOR DRAINAGE.
- ALL METALLIC CONDUITS ENTERING HANDHOLE SHALL EXTEND MINIMUM 1" & MAXIMUM 3" INSIDE INNER WALL AND BE EQUIPPED WITH AN APPROVED TYPE OF THREADED GROUNDING BUSHING.

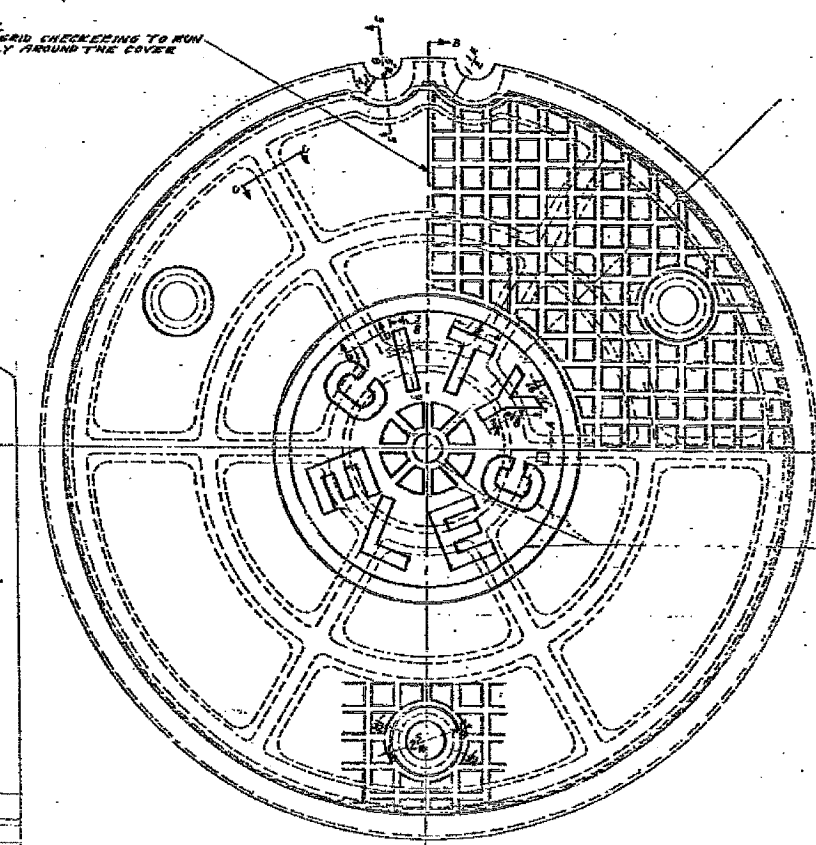
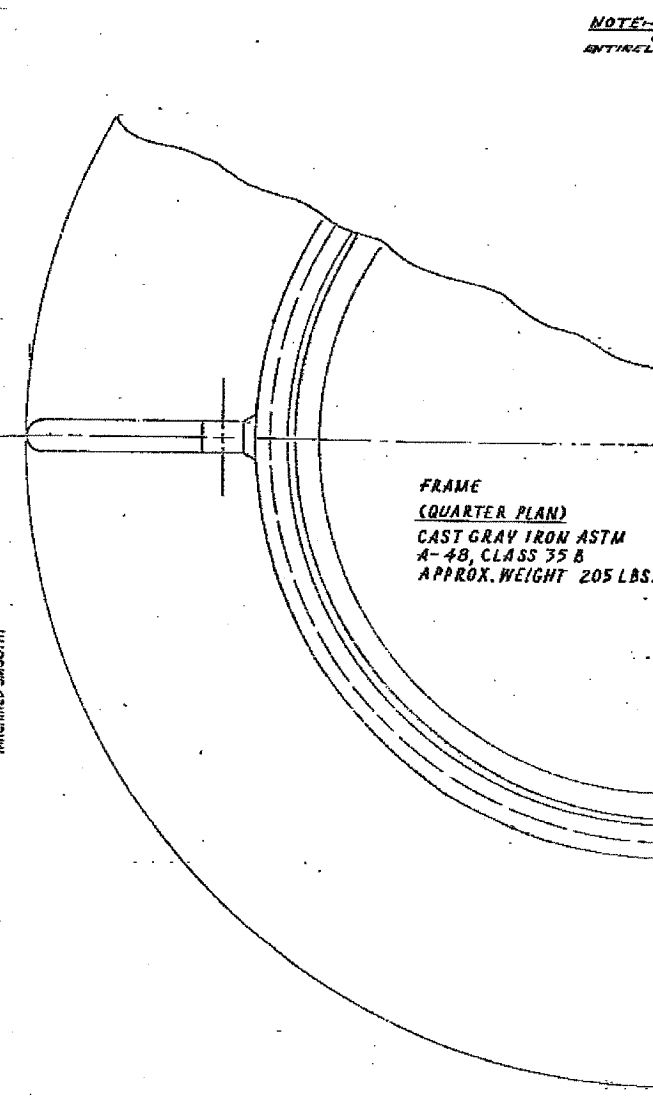
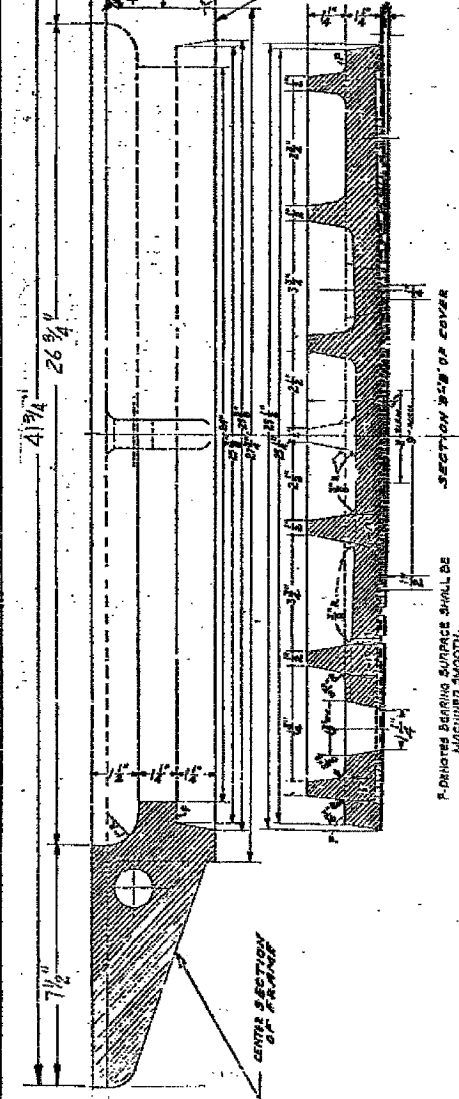
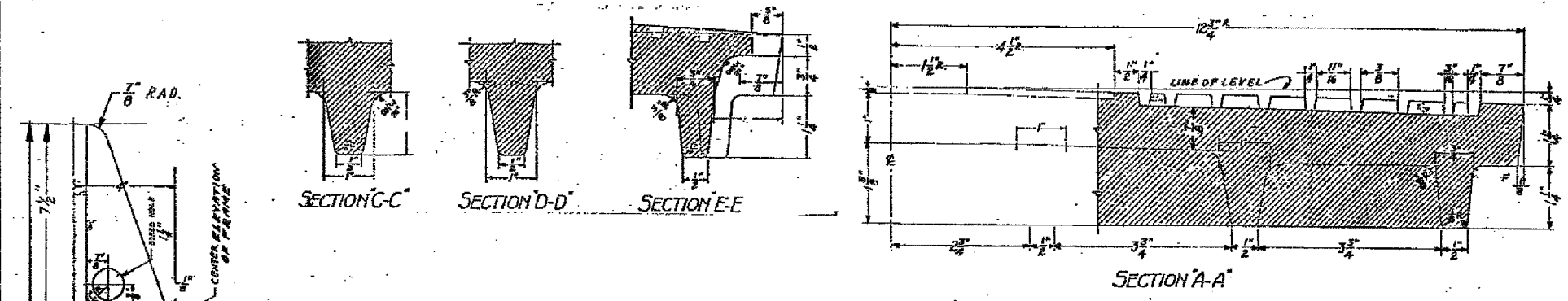
B	81-23-88	ADDED CABLE HOOKS PER COMMISSIONER HANPHY	(C/C/HD)
A	12-8-95	REDRAW (CAD)	MP.
	DATE	REVISION	
30" DIA. CONCRETE HANDHOLE			
CITY OF CHICAGO DEPT. OF STREET AND SANITATION BUREAU OF ELECTRICAL DIVISION OF STRUCTURAL ENGINEERING			
DRAWN BY:	ENGINEER	INSPECTOR	TRUCKER
M. PATTON	B. CARTER	DEBARTOLO	
SUPERVISING ENGINEER	REGISTERED ENGINEER		
ENGINEER OF ELECTRICAL			UWG. NO.
GENERAL SUPERVISOR OF ELECTRICAL			867
DEPT. COMMISSIONER			
SIZE: 11"	SCALE: NONE	DATE: 12-8-95	

REVISIONS	
NAME	DATE

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	35
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62807



NOTE - THE TOP SURFACE OF THE 3 CIRCLES AND ALL OF THE LETTERS TO BE RAISED 1/8" ABOVE THE SURFACE WITHIN THE 3" DIAMETER WITH 7/8" DRAFT ANGLE.

COMMODITY CODE
FRAME
COVER - 02 4574-5040

COVER (PLAN)
CAST IRON
APPROX. WEIGHT 200 LBS.

24" DIA. CIRCULAR MANHOLE
FRAME & COVER WITH 4 1/2" O.D.
FRAME

CITY OF CHICAGO
DEPT. OF STREET LIGHTS & SIGNALS
DIVISION OF ELECTRICAL SERVICES

DESIGNED BY: A. JOHNSON
SUPERVISING ENGINEER: C. RESPINO
ENGINEER: M. DE BARTOLO

NUMBER OF ELECTRICAL: 872
DATE: 4-24-92

SUPERSEDES DWG # 10797
DATED 2-10-35

CTE ENGINEERS
CONSER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60601-5262, PHONE: (312) 938-0300

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

BOE STANDARD DETAILS

SCALE: NONE
DATE: February 11, 2005

DRAWN BY: HAR
CHECKED BY: WDS

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-06BL	COOK	37	36
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62807				

NOTES:

1. THE INSTALLATION OF OFFSET FOUNDATIONS FOR THIS CONTRACT IS SIMILAR TO BOE STANDARD 937. THE INSTALLATION OF AN OFFSET FOUNDATION SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION WORK.

NOTES

1. EXCAVATION OF THE POLE FOUNDATION MUST BE MADE WITH AN AUGER, 30" IN DIAMETER
2. THE ANCHOR WILL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
3. THE ANCHOR BOLTS AND CONDUITS MUST BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM
4. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS MUST BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A153
5. ANCHOR BOLTS AND CONDUITS MUST PROJECT 5-3/4" ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR MUST CONFIRM ANCHOR BOLT AND CONDUIT EXTENSIONS WITH ENGINEER.
6. POLES MUST BE INSTALLED PER DRAWING 837
7. THE CONDUIT TRENCH MUST BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT POLE IS ERECTED
8. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS S1 CONCRETE
9. ALL REINFORCEMENT SHALL HAVE A MINIMUM 3" COVER OF CONCRETE

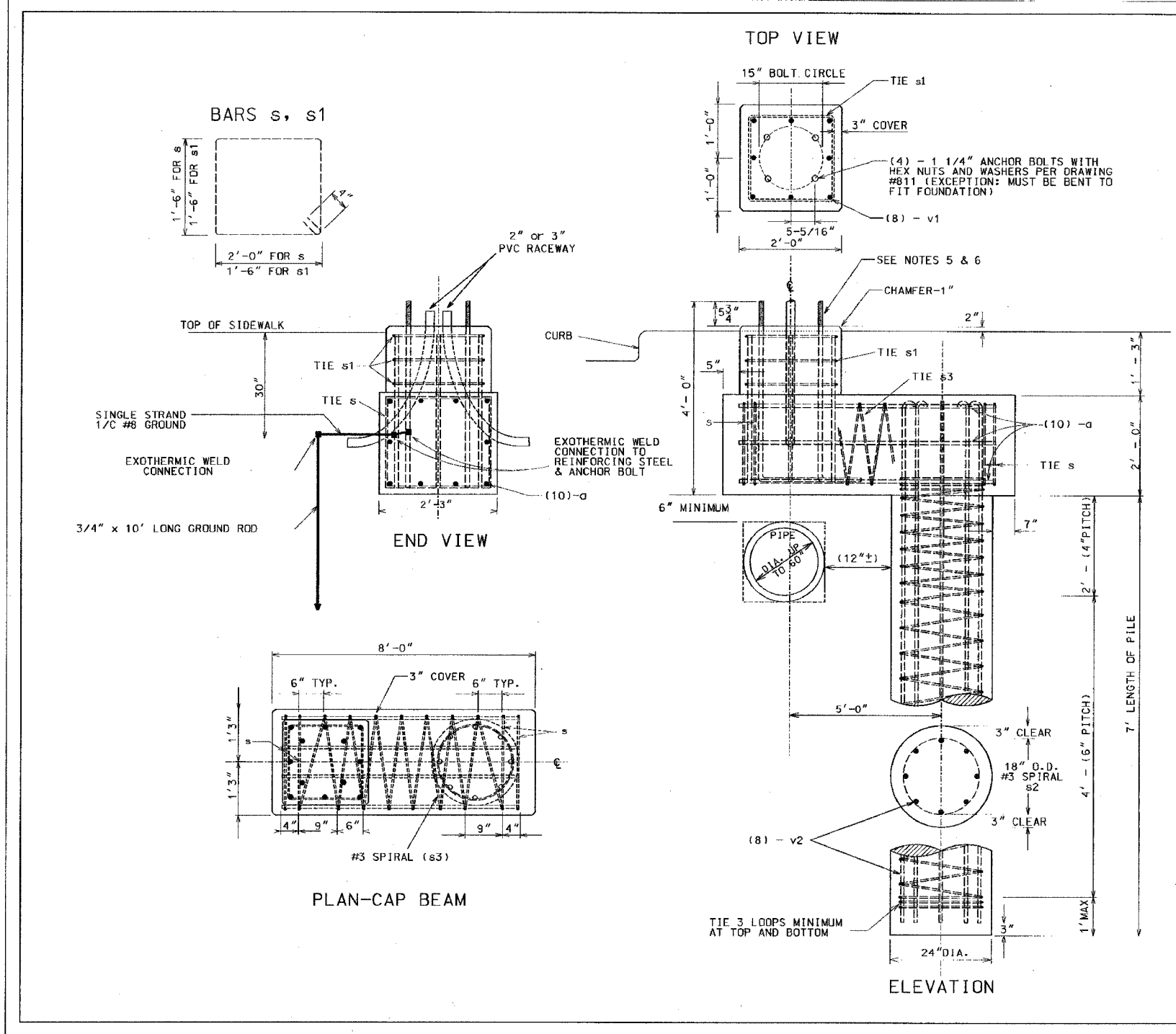
RE-BAR SCHEDULE

MARK	NO.	SIZE	SHAPE	LENGTH
a	10	6	—	7'-0"
s	4	4	□	7'-8"
s1	3	3	□	6'-8"
s2	1	3	○	99'-3"
s3	1	3	○	99'-8"
v1	8	6	—	2'-11"
v2	8	6	—	9'-0"

OFFSET FOUNDATION FOR LIGHT POLE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: B. GARNSEY	ENGINEER: GARNSEY, LETAMENDI	DWG. NO.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.:	937
ENGINEER OF ELECTRICITY:	DEPT. Supt. OF ELECTRICITY:	DATE: 1/28/03
DEPT. PERMISSSION:	DATE:	
SIZE: 36" x 22"	SCALE: N.T.S.	



NOTE 1)

BOE-7



REVISIONS	
NAME	DATE

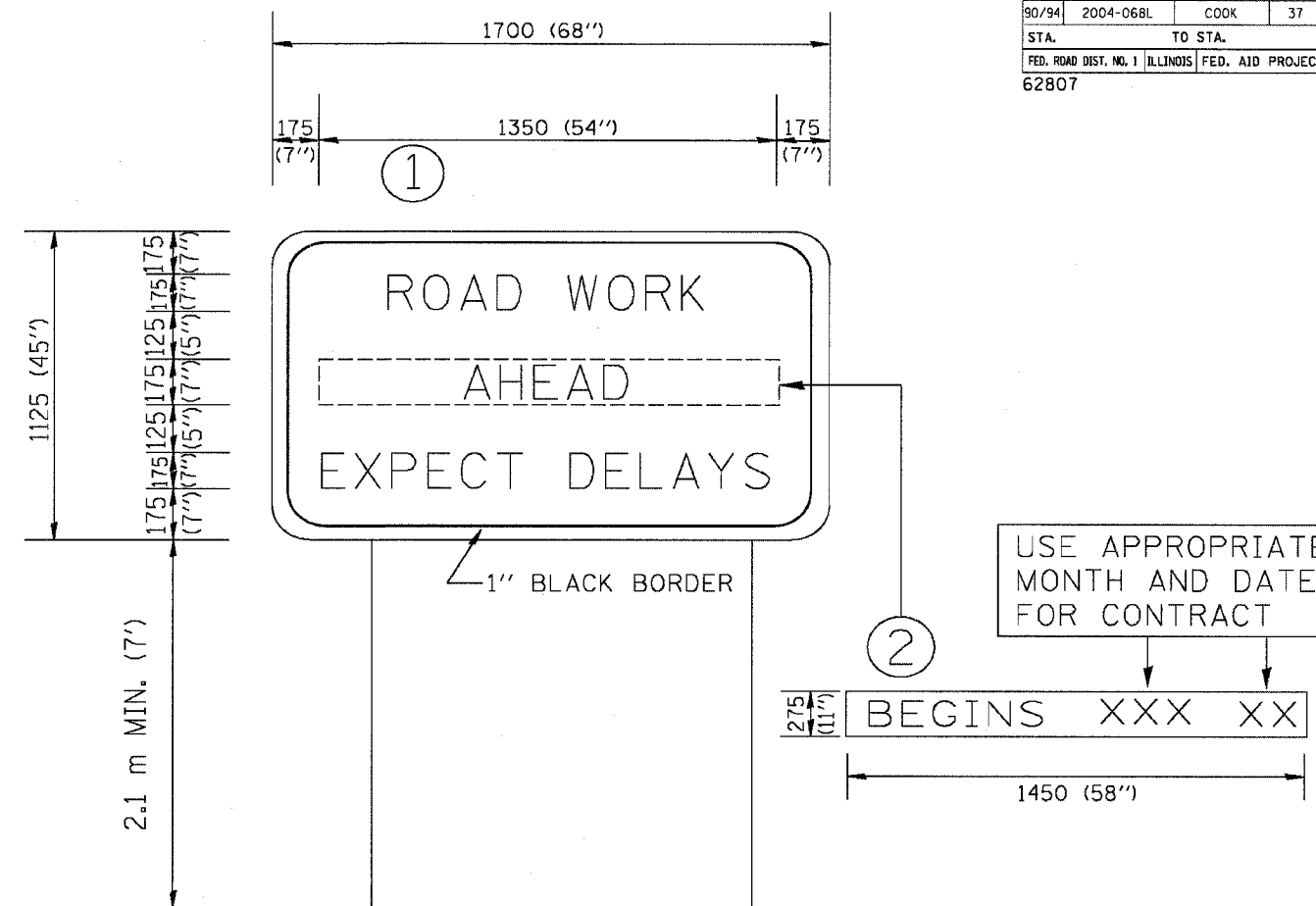
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
59th ST TO 47th ST (FRONTAGE ROAD)
CITY OF CHICAGO LIGHTING CONDUIT & FOUNDATIONS
WENTWORTH AVENUE

BOE STANDARD DETAILS

SCALE: NONE
DATE: February 11, 2005
DRAWN BY: HAR
CHECKED BY: WDS

02/02/2005 09:09:57 AM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2004-068L	COOK	37	37
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
62807				



NOTES:

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

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INFORMATION SIGNING

SCALE:
DATE 10/18/2002

DRAWN BY: BUR. OF DESIGN
CHECKED BY:

TC22
REVISION DATE: 02/02/99