

62583

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-311	COOK	976	1

DESIGN NUMBER
D-91-085-03

953 Total Sheets

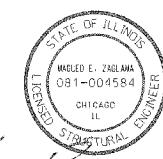
INDEX OF SHEETS
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN CITY OF CHICAGO

DESIGN DESIGNATION

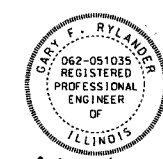
	ADT (2010)	DESIGN SPEED	POSTED SPEED
SOUTH OF 67th STREET			
I-94 (DAN RYAN)	266,800	60 MPH	55 MPH
I-94 (BISHOP FORD)	123,400	60 MPH	55 MPH
I-57	107,600	60 MPH	55 MPH
RAMPS	(VARIES)	40 MPH	35 MPH
NORTH OF 67th STREET			
190/94 NB LOCAL LANES	53,270	60 MPH	45 MPH
190/94 SB LOCAL LANES	47,185	60 MPH	45 MPH
RAMPS	(VARIES)	40 MPH	30 MPH

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 2003-0311
PROJECT: ACIM-094-3(369)055
LIGHTING AND SURVEILLANCE
31ST STREET TO I-57 INTERCHANGE



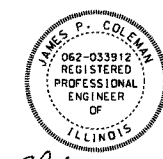
MAGUED E. ZAGLALA
(SHEETS 903-905, 959)
PREPARED BY
EDWARDS AND KELCEY

EXPIRES
DATE



GARY F. RYLANDER
(SHEETS 605-611, 613-820, 893-895, 906, 907, 922-948, 951-958, 960-965, 968-970)
PREPARED BY
EDWARDS AND KELCEY

11-30-05
EXPIRES
11-2-04
DATE



JAMES P. COLEMAN
(SHEETS PREPARED BY
CTE ENGINEERS, INC.)

11-30-05
EXPIRES
10-27-04
DATE



RICHARD W. STAFFORD
(SHEETS PREPARED BY BOWMAN,
BARRETT, AND ASSOCIATES)

11-30-05
EXPIRES
10-27-04
DATE



THOMAS MIKOŁAJEWSKI
(SHEETS PREPARED BY
SINGH & ASSOCIATES)

11-30-05
EXPIRES
10-2-04
DATE



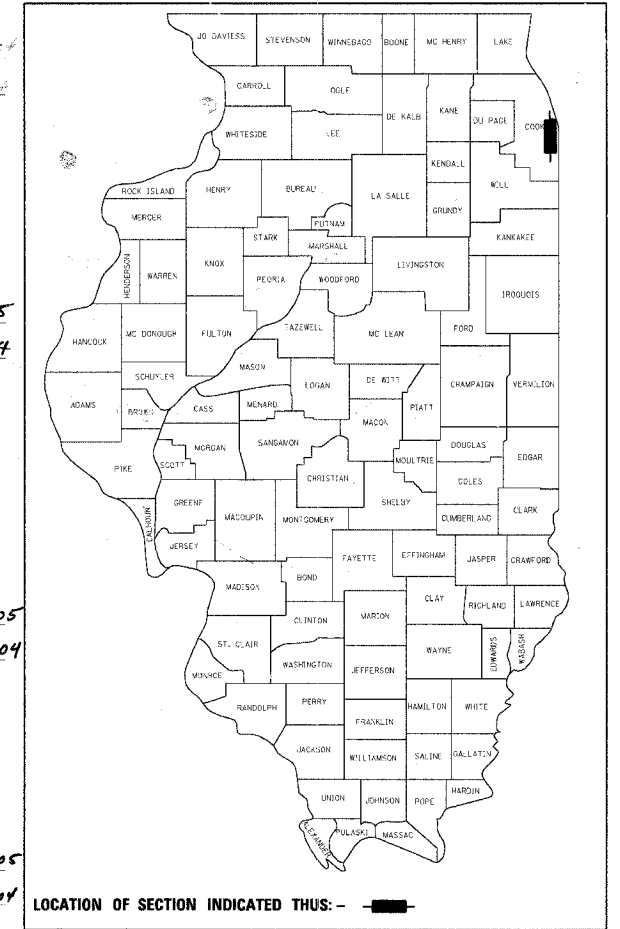
KAMLESHWAR P. GUPTA
(SHEETS PREPARED BY
KAM ENGINEERING, INC.)

11-30-05
EXPIRES
10-27-04
DATE



DEAN A. KIESLING
(SHEETS PREPARED BY
TYLIN INTERNATIONAL)

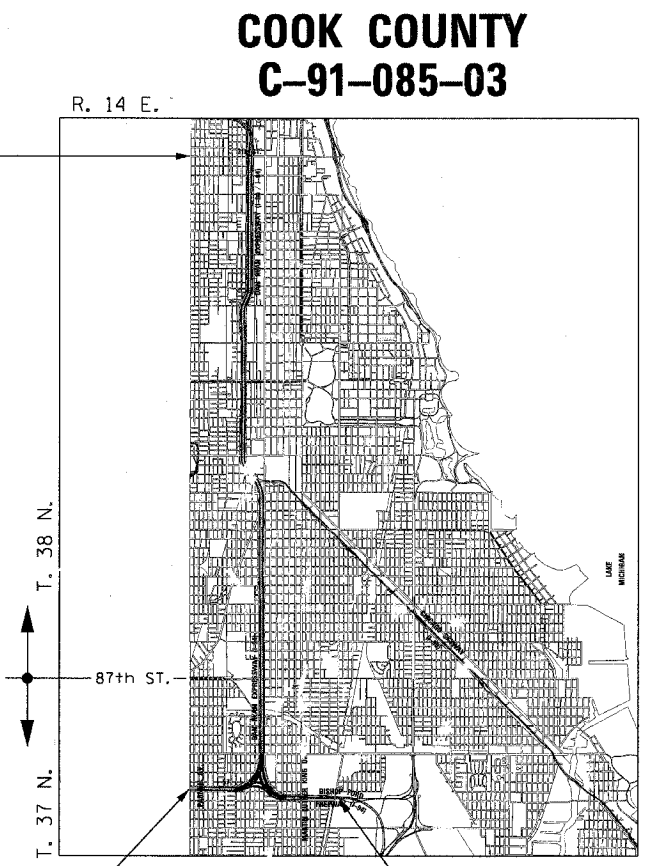
11-30-05
EXPIRES
10-28-04
DATE



LOCATION OF SECTION INDICATED THUS: -

PROJECT LIMITS

PROJECT LIMIT
31st+ ST. STA. 1635+00 (SB I-94)

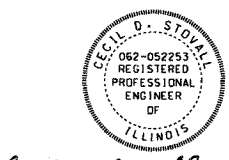


PROJECT LIMIT
STA. 91+00 (SB I-57)

PROJECT LIMIT
STA. 2000+00 (NB I-94)

LOCATION MAP

SCALE 0.84" = 1 MILE
GROSS LENGTH OF PROJECT = 52,800 FT (10.000 MILES)
NET LENGTH OF PROJECT = 52,800 FT (10.000 MILES)



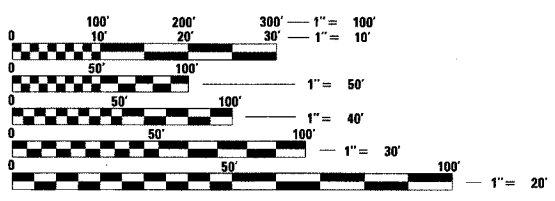
CECIL D. STOVALL
(SHEETS 841-846, 966, 967)
PREPARED BY
EDWARDS AND KELCEY

11-30-05
EXPIRES
11-2-04
DATE



JOHN E. ZIETLOW
(SHEETS 612, 821-840, 861-892, 917-921, 949, 950)
PREPARED BY
EDWARDS AND KELCEY

11-30-05
EXPIRES
11-02-04
DATE



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. 62583

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED November 19, 20 04
Dina O'Keefe
DISTRICT ENGINEER

December 19, 20 04
Mike Hise
ENGINEER OF DESIGN AND ENVIRONMENT

December 10, 20 04
Victor Madere
DIRECTOR, DIVISION OF HIGHWAYS

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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

DISTRICT ONE DESIGNCONSULTANT SERVICES PROJECT MANAGER
RAJENDRA SHAH (847) 705-4437

REVISED
 03/29/2005
 12:51:54 PM

INDEX OF SHEETS

SHEET	DESCRIPTION
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44	ELECTRICAL ABBREVIATIONS AND GENERAL NOTES (ME-02)
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ILLINOIS DOT DISTRICT ONE STANDARDS

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399	DAVIT LIGHT POLE (BE-410) 14.478M (47'-6") MOUNTING HEIGHT
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609	HIGHWAY ADVISORY RADIO SUBSYSTEM (SYS-03)
610	RAMP METERING SUBSYSTEM (SYS-04)
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969 AND 970	BREAKAWAY WIDE FLANGE STEEL SIGN POST DETAILS (2 SHEETS)
971 THRU 976	NOT USED

ILLINOIS DOT HIGHWAY STANDARDS

STANDARD	DESCRIPTION
814001	CONCRETE HANDHOLES
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-01	OFF ROAD OPERATIONS, MULTILANE, 4.5M (15') TO 600MM (24") FROM PAVEMENT EDGE
701400-02	APPROACH LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-03	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-03	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > OR = 45 MPH
701426-02	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > OR = 45 MPH
701446	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62583



REVISIONS	
NAME	DATE
4 REVISOR	3/24/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57

INDEX OF SHEETS
 AND ILLINOIS DOT STANDARDS

SCALE: NONE
 DATE: October 29, 2004

DRAWN BY: CJM/HAR
 CHECKED BY: JPC

03/29/2005 12:51:54 PM

DESIGN CHANGES & CLARIFICATIONS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	2A
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62583

- THE DMS-UPS SYSTEMS AND CABINETS HAVE BEEN REMOVED FROM THE CONTRACT. SHEET 901 (DT-06) HAS BEEN DELETED. ALL OTHER WORK RELATING TO THE UPS SYSTEM THAT IS SHOWN ON DMS PLAN AND DETAIL SHEETS SHALL BE DELETED FROM THE CONTRACT. CONDUIT AND CABLE SHOWN BETWEEN THE METER PEDESTALS AND DMS-UPS CABINETS SHALL GO DIRECTLY INTO THE DMS CABINETS. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THE DELETION OF THIS WORK. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- DYNAMIC MESSAGE SIGNS (DMS) WILL BE PURCHASED BY IDOT UNDER A PROCUREMENT CONTRACT AND WILL BE INSTALLED IN CONTRACT 62583. SPECIAL PROVISION AND PAY ITEM HAVE BEEN MODIFIED TO REFLECT THIS CHANGE. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- UNIT DUCT TO "FUTURE CCTV CAMERA LOCATION" SHOWN ON SHEETS CCTV-01, 03, 08, 09, 11, 13, 14, 15, 20, 30 AND 31 WILL NOT BE INSTALLED. CABLE TO "FUTURE CCTV CAMERA LOCATION" AS SHOWN ON SHEETS CCTV-04, 21, 27 AND 28 WILL NOT BE INSTALLED. HOWEVER, AN EMPTY 1 1/2" CNC WILL BE INSTALLED IN ITS PLACE. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS REVISION. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- CONCRETE SERVICE PADS AROUND THE GROUND-MOUNTED HIGH MAST LIGHT TOWERS AND ASSOCIATED CURBS AND RETAINING WALLS HAVE BEEN REMOVED FROM THE CONTRACT. THIS WORK AND ASSOCIATED GRADING MAY BE ADDED IN A FUTURE CONTRACT AND THE CONTRACTOR SHALL EXTEND ALL CONDUIT SLEEVES INCLUDED IN THE LIGHT TOWER FOUNDATIONS TO THE LOCATIONS SHOWN ON THE DETAILS TO FACILITATE THE CONSTRUCTION OF SERVICE PADS IN THE FUTURE. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THE DELETION OF THIS WORK. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- THE FINAL LANDSCAPING AND TURF RESTORATION NEAR ALL GROUND-MOUNTED HIGH MAST LIGHT TOWER FOUNDATIONS HAS BEEN MOVED TO OTHER CONTRACTS. THE FINAL LANDSCAPING AND TURF RESTORATION FOR ALL CONDUIT AND WIRING TRENCHES BETWEEN HIGH MAST LIGHT TOWERS HAS ALSO BEEN MOVED TO OTHER CONTRACTS. THE EROSION CONTROL MEASURES PUT IN PLACE FOR THE ABOVE DURING CONSTRUCTION WILL BE ADEQUATE UNTIL THE FINAL LANDSCAPING IS DONE IN A FUTURE CONTRACT. THE FINAL LANDSCAPING AND TURF RESTORATION FOR ALL PROPOSED LIGHTING CONTROLLERS WILL REMAIN. QUANTITY MODIFICATIONS HAVE ALSO BEEN MADE AT THESE LOCATIONS RELATING TO COMED CONNECTIONS TO THE PROPOSED LIGHTING CONTROLLERS. QUANTITIES FOR TOPSOIL FURNISH AND PLACE, 4"; SEEDING, CLASS 2A; NITROGEN FERTILIZER NUTRIENT; PHOSPHORUS FERTILIZER NUTRIENT; POTASSIUM FERTILIZER NUTRIENT; EROSION CONTROL BLANKET; SODDING, SALT TOLERANT; AND TEMPORARY EROSION CONTROL SEEDINGS HAVE BEEN MODIFIED IN THE SUMMARY OF QUANTITIES TO REFLECT THE REDUCED SCOPE OF WORK. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- PAVEMENT REMOVAL AND RESTORATION QUANTITY MODIFICATIONS HAVE BEEN MADE NEAR PROPOSED LIGHTING CONTROLLERS "A" AND "O" IN ORDER TO DECREASE THE NUMBER OF BENDS REQUIRED TO CONNECT THE WIRING FROM THE EXISTING SERVICE POLE TO THE PROPOSED CONTROLLER LOCATION. BECAUSE A PUSH PIT WILL BE USED, A MAJORITY OF THE PAVEMENT REMOVAL AND RESTORATION QUANTITIES FOR A TRENCH HAVE BEEN DELETED AT CONTROLLER "P". MINOR QUANTITIES REMAIN TO ACCOMMODATE THE PUSH PIT REQUIRED FOR THIS CONNECTION. QUANTITIES FOR SUB-BASE GRANULAR MATERIAL, TYPE B 6"; PORTLAND CEMENT CONCRETE BASE COURSE 8"; PORTLAND CEMENT CONCRETE BASE COURSE 10 1/2"; AGGREGATE (PRIME COAT); PROTECTIVE COAT; PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH; BITUMINOUS SURFACE REMOVAL 1 1/2"; PAVEMENT REMOVAL; COMBINATION CURB AND GUTTER REMOVAL; SIDEWALK REMOVAL; PAVED SHOULDER REMOVAL; BITUMINOUS SHOULDERS SUPERPAVE 6"; BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70 AND COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12 HAVE BEEN MODIFIED IN THE SUMMARY OF QUANTITIES TO REFLECT THE REDUCED SCOPE OF WORK. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- CONVENTIONAL LIGHTING, SIGN LIGHTING AND UNDERPASS LIGHTING BETWEEN HALSTED STREET AND THE CHICAGO AND WISCONSIN RAILROAD BRIDGE HAS BEEN REMOVED FROM THIS CONTRACT. THIS LIGHTING WILL BE INSTALLED IN A FUTURE CONTRACT. THE WORK DELETED INCLUDES TEMPORARY AERIAL CABLE, TEMPORARY LIGHTING, REMOVAL OF EXISTING ROADWAY, UNDERPASS, AND SIGN LIGHTING AND INSTALLATION OF PROPOSED LIGHT POLES, LUMINAIRES, FOUNDATIONS, SIGN LIGHTING, UNDERPASS LIGHTING, GROUNDING, UNIT DUCT, CABLING, CONDUIT AND TRENCHING. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THE DELETION OF THIS WORK. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR. SHEETS EL-01, EL-02, RL05-01, RL05-02, RL06-01, RL06-02, RL07-01 AND RL07-02 ARE INCLUDED FOR INFORMATION ONLY.
- AERIAL CABLE AND WOOD POLES FOR TEMPORARY POWER TO HIGH MAST LIGHT TOWERS DEPICTED ON RL05 SHEETS 3 THROUGH 22 SHALL NOT BE INSTALLED AND SHALL BE CONSIDERED DELETED FROM THIS CONTRACT. INSTALLATION OF HIGH MAST LIGHT TOWERS SHOWN ON RL05 SHEETS 3 THROUGH 22 SHALL BE INSTALLED IN CONJUNCTION WITH CIVIL CONTRACTS 62694 AND 62695 WITH THE PERMANENT UNDERGROUND WIRING SHOWN ON THE RL06 SHEETS. PROPOSED ELECTRICAL SERVICES AND LIGHTING CONTROLLERS SHALL BE ALSO INSTALLED IN CONJUNCTION WITH CIVIL CONTRACTS 62694 AND 62695 WITH THE PERMANENT UNDERGROUND WIRING SHOWN ON THE RL06 SHEETS. TEMPORARY AERIAL CABLE AND WOOD POLES FOR SIGN REMOVALS AND SHOWN ON EL-03 THROUGH EL-22 SHALL BE INSTALLED AS REQUIRED TO ACCOMMODATE THE STAGES OF WORK IN CONTRACT 62694 AND 62695. EXISTING ROADWAY LIGHTING REMOVALS SHALL BE MADE AS DIRECTED BY THE ENGINEER. MAINLINE LIGHTING CAN NOT BE REMOVED UNTIL THE HIGH MAST LIGHTING SYSTEM IN THE AREA IS OPERATIONAL. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS MODIFICATION. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- WHERE 2" GSC IN TRENCH IS SHOWN ON THE PLANS IT SHALL BE REPLACED WITH 2" CNC IN TRENCH, EXCEPT FOR RACEWAYS FOR COMED SERVICE CONDUITS, WHERE 3" GSC IN TRENCH IS SHOWN ON THE PLANS IT SHALL BE REPLACED WITH 3" CNC IN TRENCH. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS CHANGE. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- THE ITEM "PACKAGED STANDBY GENERATOR SYSTEM, REIMBURSEMENT ONLY" SHALL BE DELETED FROM THE CONTRACT. THE CONTRACTOR SHALL INSTALL PACKAGED STANDBY GENERATORS PROVIDED BY IDOT UNDER "PACKAGED STANDBY GENERATOR SYSTEM, INSTALLATION ONLY" AS SHOWN ON THE PLANS AND AS SPECIFIED BUT WILL NO LONGER REIMBURSE IDOT FOR THE COST OF THE PACKAGED STANDBY GENERATOR SYSTEMS. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS CHANGE. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- PORTABLE CHANGEABLE MESSAGE SIGNS WILL NOT BE REQUIRED FOR THIS CONTRACT. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS DELETION.
- TEMPORARY INFORMATION SIGNING SHALL BE DELETED FROM THIS CONTRACT. THIS WORK WILL BE MOVED TO OTHER CONTRACTS. SHEETS 42A, 42B, 42C, AND 42D HAVE BEEN DELETED. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS DELETION.
- THE ITEM "ROD AND CLEAN EXISTING CONDUIT" SHALL BE DELETED FROM THE CONTRACT. THE CONTRACTOR WILL BE INSTALLING WIRES, UNIT DUCTS AND COILABLE NON-METALLIC CONDUITS IN RACEWAYS INSTALLED UNDER OTHER DAN RYAN CONTRACTS THAT SHOULD BE CLEAN AND READY FOR INSTALLATION OF CABLES OR DUCTS AND THEREFORE WILL NOT REQUIRE CLEANING. IF THE CONTRACTOR ENCOUNTERS A RACEWAY THAT IS NOT CLEAN AND READY FOR INSTALLATION OF CABLES OR DUCTS UNDER THIS CONTRACT THE CONTRACTOR SHOULD IMMEDIATELY BRING THE SITUATION TO THE ATTENTION OF THE ENGINEER. IF APPROVED BY THE ENGINEER THIS WORK WILL BE PAID IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS DELETION. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR.
- THE LIGHTING CONTROLLERS FURNISHED IN THIS CONTRACT SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIAL PROVISIONS AND THE CONTRACT DRAWINGS. THE CONTRACTOR IS ADVISED THAT SHEETS 1, 2, AND 3 OF THE DISTRICT ONE CONTROLLER STANDARD DRAWINGS HAVE BEEN MODIFIED TO INCLUDE CIRCUIT BREAKERS TO FEED CCTV CAMERAS AND ARE INCLUDED AS SHEETS 61, 62, AND 63. SHEET 4 OF THE DISTRICT ONE STANDARDS WAS NOT MODIFIED AND IS INCLUDED AS SHEET 396.
- MATERIALS ACCEPTED BY IDOT AND STORED BY THE CONTRACTOR MAY BE SUBMITTED FOR PAYMENT IN ACCORDANCE WITH SECTION 109.07 OF THE STANDARD SPECIFICATIONS. PAYMENT WILL BE AT THE DISCRETION OF THE DEPARTMENT.
- THE CONTRACTOR IS REQUIRED TO MARK THE RECORD DRAWINGS TO REFLECT THE CHANGES IDENTIFIED ON SHEETS 2A THROUGH 2F. RECORD DRAWING REQUIREMENTS ARE IDENTIFIED IN SECTION 801.10 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MARK THE CHANGES IDENTIFIED ON SHEETS 2A THROUGH 2F ON THE RECORD DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO THE BEGINNING OF ANY CONSTRUCTION WORK.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 DESIGN CHANGES & CLARIFICATIONS
NAME	DATE	
		SCALE: NONE DRAWN BY: CJM DATE: October 29, 2004 CHECKED BY: JPC

NEW SHEET

3/24/05

me-P-10-1668-Flec-N6-Cnr-2b-Span-Contract-20030202CA-BIT 03/24/2005 03:24:19 PM

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	COOK		2C
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
* (2021-922 PT. 1, 2 & 2122-921 PT. 1) R-4			

SHEET COMM-45:

- FIBER OPTIC SPLICE, LATERAL IN HH4501 SHOULD BE DELETED.
- TWO (2) 2" CNC AND 48-FIBER CABLE ALONG 35TH STREET SHOULD BE DELETED.

SHEET COMM-46:

- 1/4" CNC BETWEEN TOWER WK1 (CABINET DR-3A) TO HH4602 SHOULD BE DELETED.
- 6-FIBER CCTV CABLE BETWEEN TOWER WK1 (CABINET DR-3A) AND HH4602 SHOULD BE DELETED.
- 1/4" CNC BETWEEN TOWER WK1 (CABINET DR-3A) AND HH4603 SHOULD BE INSTALLED.

SHEET COMM-47:

- 6-FIBER CCTV CABLES ALONG THE WEST SIDE OF THE DAN RYAN EXPRESSWAY SHOULD BE DELETED.
- 6-FIBER CCTV CABLES ALONG THE EAST SIDE OF THE DAN RYAN EXPRESSWAY SHOULD BE DELETED.
- 48-FIBER CCTV CABLE SHOULD BE INSTALLED ON WEST SIDE OF DAN RYAN EXPRESSWAY. 48-FIBER CABLE SHOULD CROSS AT 31ST STREET BRIDGE USING TWO (2) 2" GSC ATTACHED TO STRUCTURE AND JOIN EAST 48-FIBER CCTV CABLE.
- 48-FIBER CCTV CABLE SHOULD BE INSTALLED ON EAST SIDE OF DAN RYAN EXPRESSWAY.

SHEET COMM-48:

- 6-FIBER CCTV CABLE FROM CABINET DR-2B SHOULD BE SPLICED TO 48-FIBER CCTV CABLE IN HH4802.
- 6-FIBER CCTV CABLE ALONG THE EAST SIDE OF THE DAN RYAN EXPRESSWAY SHOULD BE DELETED.
- TWO (2) 48-FIBER CCTV CABLE SHOULD BE INSTALLED ON EAST SIDE OF DAN RYAN EXPRESSWAY.
- NORTH OF JUNCTION BOX 4803, TWO (2) 48-FIBER CCTV CABLES SHOULD BE INSTALLED IN THE 2" GSC WITH THE 96-FIBER BACKBONE CABLE.

SHEET COMM-49 AND COMM-50:

- TWO (2) 48-FIBER CCTV CABLES SHOULD BE INSTALLED IN THE 2" GSC WITH THE 96-FIBER BACKBONE CABLE.

SHEET COMM-51:

- TWO (2) 48-FIBER CCTV CABLES SHOULD BE INSTALLED IN THE 2" GSC WITH THE 96-FIBER BACKBONE CABLE. THE TWO (2) 48-FIBER CCTV CABLES SHOULD BE TERMINATED IN THE NORTH I-55 COMMUNICATION SHELTER (RO).

SHEET COMM-56:

- DELETE AND REPLACE WITH SHEET 2C DRAWING

SHEET COMM-62 THROUGH COMM-68:

- DELETE 6F CABLES AS SHOWN.
- INSTALL ONE EACH 48F TRUNK CABLE ON BOTH NORTHBOUND AND SOUTHBOUND SIDES OF ROAD (NEW); INSTALL 6F CABLE FROM CCTV CABINET TO COMM VAULT AND 48F TRUNK CABLE; SPLICE 6F CABLE TO 48F CABLE.
- DO NOT INSTALL 6F CABLE AT FUTURE CAMERA SITES

SHEET COMM-69:

- INSTALL ONE EACH 48F TRUNK CABLE ON BOTH NORTHBOUND AND SOUTHBOUND SIDES OF ROAD (NEW); TERMINATE IN SHELTER

SHEET COMM-70 AND COMM-71:

- DELETE VIDEO DISTRIBUTION AMPLIFIERS AND JPEG CAPTURE DEVICES; INSTALL COAXIAL CABLE FROM VIDEO PATCH PANEL TO VIDEO ENCODER

SHEET COMM-81 THROUGH COMM-84:

- DELETE DRAWING.

SHEET COMM-90, COMM-96, AND COMM-97:

- DELETE VIDEO DISTRIBUTION AMPLIFIERS AND JPEG CAPTURE DEVICES.

SHEET COMM-98 THROUGH COMM-100:

- DELETE VIDEO DISTRIBUTION AMPLIFIERS AND JPEG CAPTURE DEVICES; INSTALL COAXIAL CABLE FROM VIDEO PATCH PANEL TO VIDEO ENCODER

SHEET COMM-107 THROUGH COMM-109:

- DELETE DRAWING.

SHEET COMM-110 AND COMM-112:

- DELETE 6F CABLE FROM TERMINATION TABLES; ADD 48F TERMINATION TABLES

SHEET COMM-115 AND COMM-116:

- DELETE PATCHES TO CCTV FIBERS.

SHEET COMM-117:

- DELETE 6F CABLE FROM TERMINATION TABLES; ADD 48F TERMINATION TABLES

SHEET COMM-118 AND COMM-119:

- DELETE PATCHES TO CCTV FIBERS.

SHEET COMM-120:

- DELETE DRAWING.

SHEET COMM-121 AND COMM-122:

- DELETE PATCHES TO CCTV FIBERS.

SHEET COMM-123:

- DELETE DRAWING.

SPARE 1/4" CNC CONDUIT REMOVAL

- 1) DELETE (2) OF THE SPARE 1/4" CNC CONDUITS THAT RUN WITH THE 96F BACKBONE ON ALL COMM SHEETS. ONE SPARE 1/4" CNC CONDUIT WILL BE INSTALLED ON EACH SIDE OF THE DAN RYAN. QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THIS REVISION.

48F CCTV CABLE RUN

- 1) ALL 48F CCTV CABLE WILL BE INSTALLED IN THE SAME 1/4" CNC CONDUIT AS THE 48F DISTRIBUTION CABLE

TEMPORARY DETECTION

- 1) THE TEMPORARY DETECTION SYSTEM ITEMS HAVE BEEN DELETED
- 2) SHEETS SYS-07, DT-53, DT-54, DT-55 HAVE BEEN DELETED
- 3) QUANTITIES IN THE SUMMARY OF QUANTITIES HAVE BEEN MODIFIED TO REFLECT THE DELETION OF THIS WORK. REVISED PLAN SHEETS WILL NOT BE PROVIDED TO THE CONTRACTOR

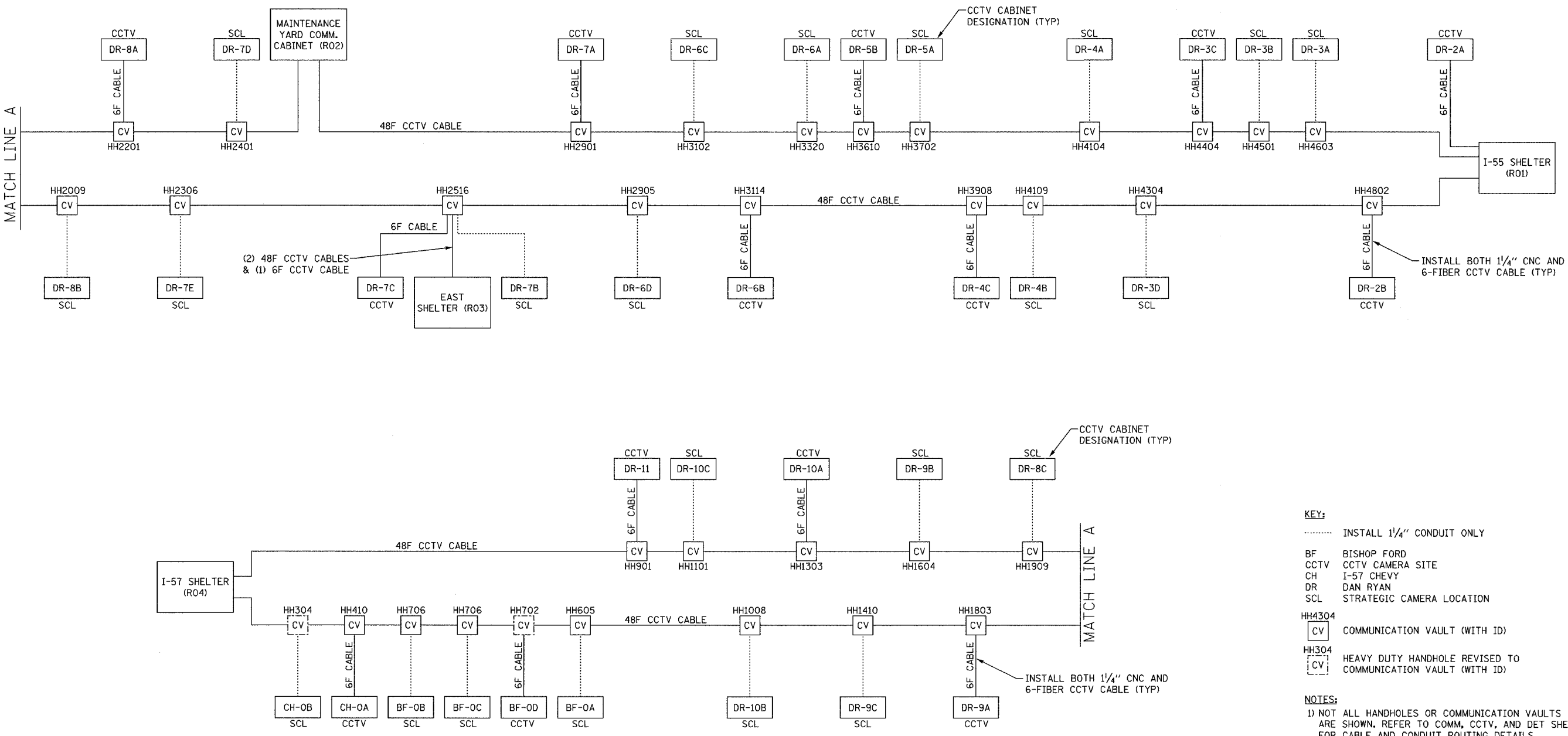


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) 31st STREET to I-57
NAME	DATE	
		DESIGN CHANGES AND CLARIFICATIONS SCALE: NOT TO SCALE DATE: MARCH 24, 2005 DRAWN BY: DHI CHECKED BY: MJL/JEZ

NEW SHEET 3/24/05

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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2003-0311	COOK	976	2 E
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
62583			



KEY:
 ----- INSTALL 1/4" CONDUIT ONLY
 BF BISHOP FORD
 CCTV CCTV CAMERA SITE
 CH I-57 CHEVY
 DR DAN RYAN
 SCL STRATEGIC CAMERA LOCATION

HH4304 [CV] COMMUNICATION VAULT (WITH ID)
 HH304 [CV] HEAVY DUTY HANDHOLE REVISED TO COMMUNICATION VAULT (WITH ID)

NOTES:
 1) NOT ALL HANDHOLES OR COMMUNICATION VAULTS ARE SHOWN. REFER TO COMM, CCTV, AND DET SHEETS FOR CABLE AND CONDUIT ROUTING DETAILS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 31st STREET to I-57

DESIGN CHANGES AND CLARIFICATIONS

SCALE: NOT TO SCALE
 DATE: MARCH 24, 2005

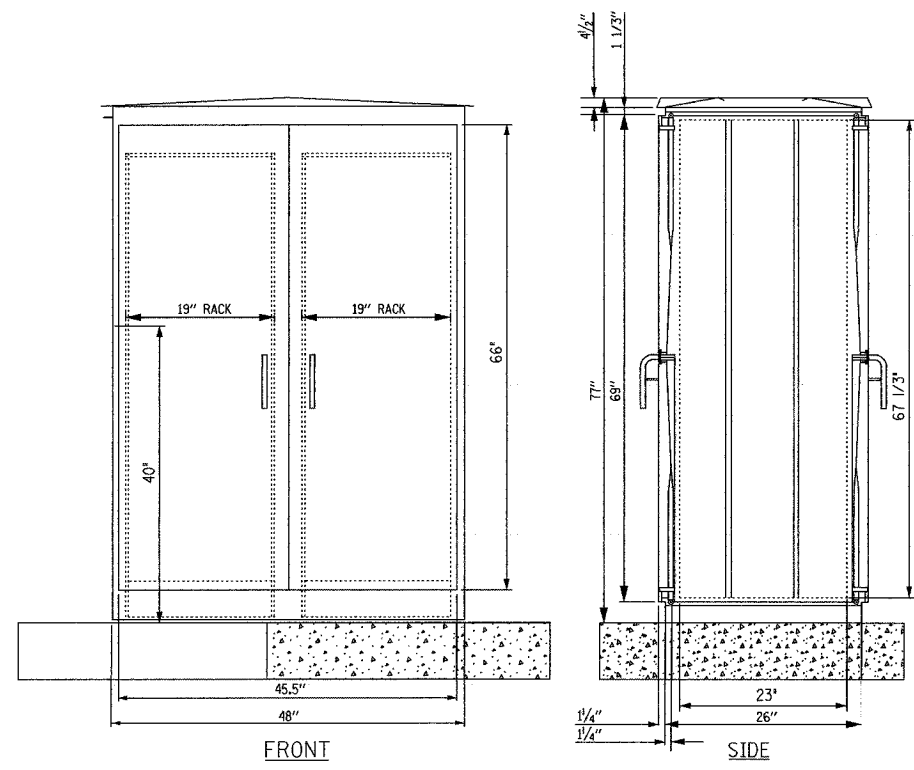
DRAWN BY: DHI
 CHECKED BY: JEZ

Edwards AND Kelcey
 ONE NORTH FRANKLIN
 CHICAGO, IL 60606
 PHONE: (312) 251-3000
 FAX: (312) 251-3015
 WEB: WWW.EDKCORP.COM

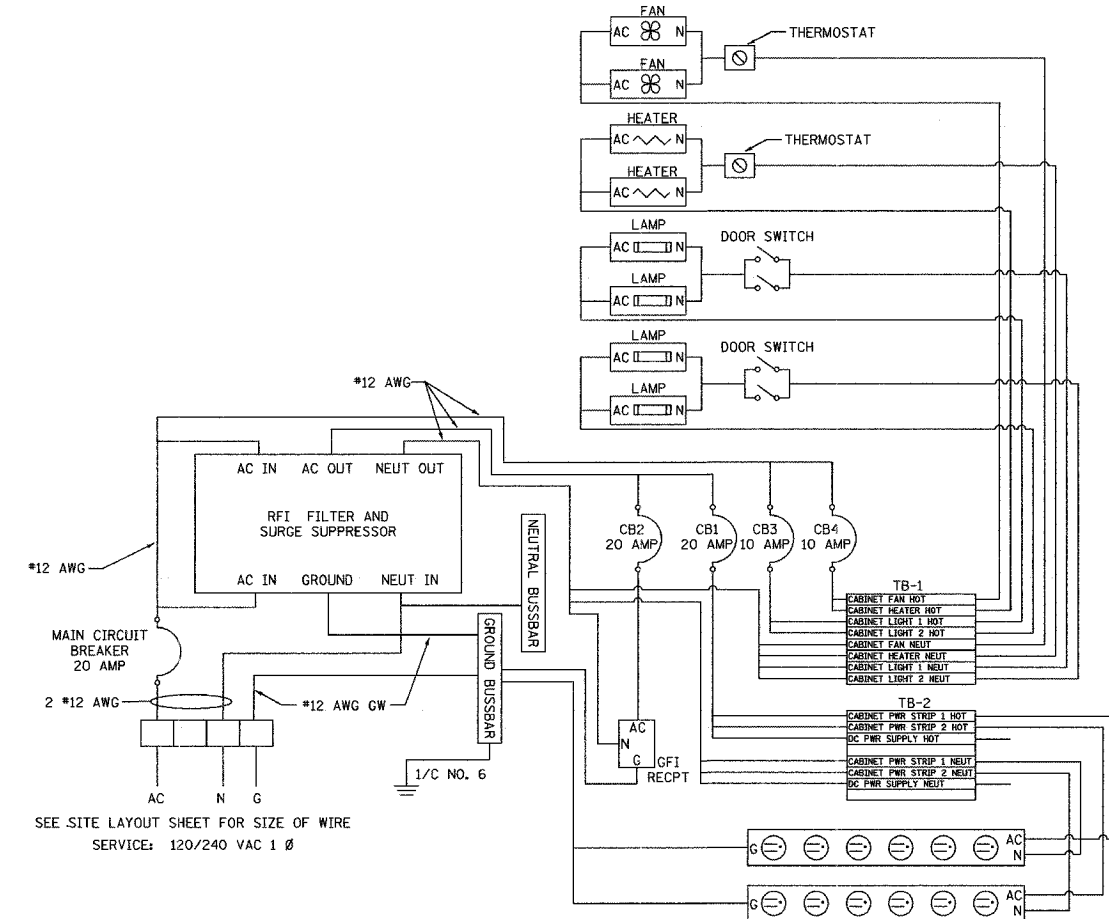
NEW SHEET 3/24/05

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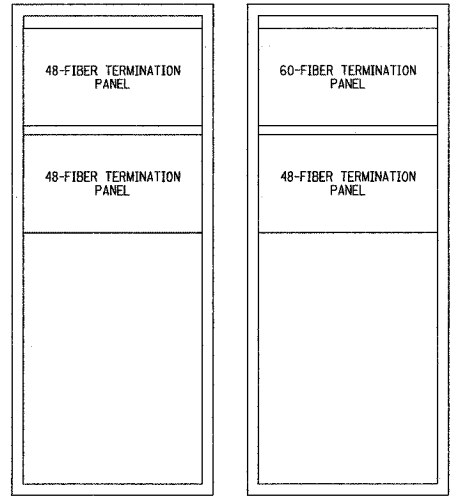
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2003-0311	COOK	976	2 F
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
62583			



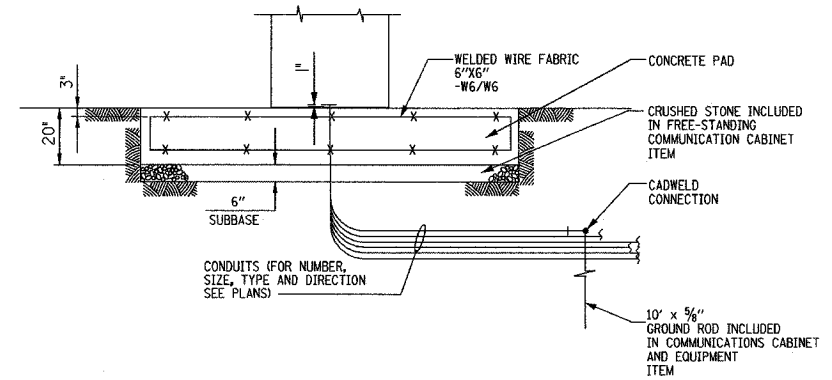
CABINET WITH 19" RACKS



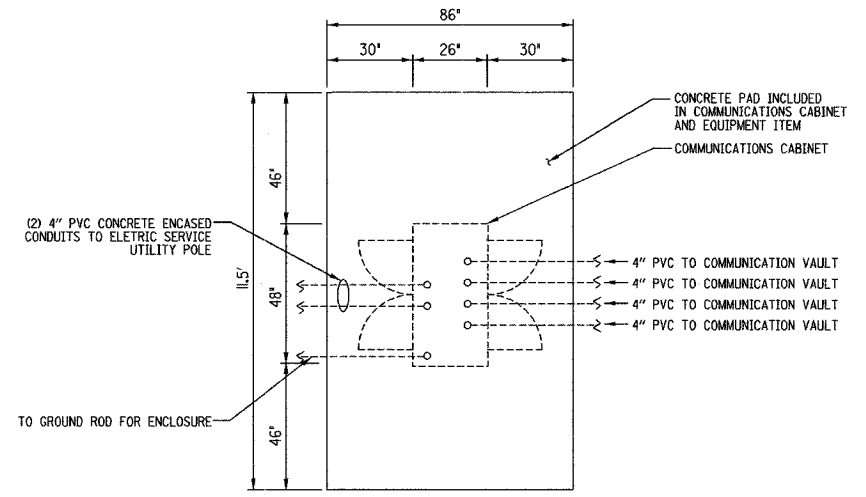
POWER DISTRIBUTION DIAGRAM



EQUIPMENT ELEVATION



SECTION 1-1
SCALE 1:4



PLAN
SCALE 1:4

- NOTES:
- CONTRACTOR SHALL INSTALL THE EQUIPMENT WITH SLIDING EQUIPMENT BRACKETS OR SLIDING SHELVES TO ALLOW ACCESS TO THE BACK. THE DESIGN SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLING THE EQUIPMENT IN THE CABINET.
 - ALL PENETRATIONS THROUGH ENCLOSURES SHALL BE COMPLETELY WATERPROOFED ON BOTH SIDES.
 - GALVANIZED STEEL CONDUITS, STRUT CHANNELS AND MOUNTING HARDWARE SHALL BE PAID FOR UNDER COMMUNICATIONS CABINET AND EQUIPMENT PAY ITEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31st STREET to I-57

DESIGN CHANGES AND
CLARIFICATIONS

SCALE: NOT TO SCALE
DATE: MARCH 24, 2005

DRAWN BY: DHI
CHECKED BY: MJL

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AND
Kelcey**
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PHONE: (312) 251-3000
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NEW SHEET 3/24/05

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	3
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	90% FED. 10% STATE	QUANTITIES		
			URBAN	CIVIL	LIGHTING	SURVEILLANCE
			QUANTITY	J000	Y030-1E	Y032-1F
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	797	797	0	0
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	207	207	0	0
20101000	TEMPORARY FENCE	FOOT	15,366	15,366	0	0
20101700	SUPPLEMENTAL WATERING	UNIT	500	500	0	0
20200100	EARTH EXCAVATION	CY	4,075	4,075	0	0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CY	921	921	0	0
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	542	542	0	0
25000210	SEEDING, CLASS 2A	ACRE	0.3	0.3	0.0	0.0
25000400	NITROGEN FERTILIZER NUTRIENT	LBS	10	10	0	0
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	LBS	10	10	0	0
25000600	POTASSIUM FERTILIZER NUTRIENT	LBS	10	10	0	0
25100630	EROSION CONTROL BLANKET	SO YD	6,026	6,026	0	0
25200110	SODDING SALT TOLERANT	SO YD	77	77	0	0
28000250	TEMPORARY EROSION CONTROL SEEDING	LBS	1,375	1,375	0	0
28000400	PERIMETER EROSION BARRIER	FOOT	13,058	13,058	0	0
28000510	INLET FILTERS	EACH	141	141	0	0
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SO YD	252	252	0	0
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SO YD	199	199	0	0
35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SO YD	63	63	0	0
35300510	PORTLAND CEMENT CONCRETE BASE COURSE 10 1/2"	SO YD	173	173	0	0
40600200	BITUMINOUS MATERIAL (PRIME COAT)	TON	0.1	0.1	0	0
40600300	AGGREGATE (PRIME COAT)	TON	0.4	0.4	0	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	87.0	87.0	0	0
44000006	BITUMINOUS SURFACE REMOVAL 1-1/2"	SO YD	211	211	0	0
44000035	BITUMINOUS SURFACE REMOVAL	SO YD	0	0	0	0
44000100	PAVEMENT REMOVAL	SO YD	210	210	0	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	115	115	0	0
44000600	SIDEWALK REMOVAL	SO FT	187	187	0	0
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	24	24	0	0
44001980	CONCRETE BARRIER REMOVAL	FOOT	233	233	0	0
44004250	PAVED SHOULDER REMOVAL	SO YD	23	23	0	0
48202400	BITUMINOUS SHOULDERS SUPERPAVE 6"	SO YD	447	447	0	0
50200100	STRUCTURE EXCAVATION	CY	0	0	0	0

1 OF 9



REVISIONS	
NAME	DATE
REVISION #4	3/24/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SUMMARY OF QUANTITIES

SCALE: NONE DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: JPC

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
90/94	2003-0311	COOK	976	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	90% FED. 10% STATE	QUANTITIES		
			URBAN	CIVIL	LIGHTING	SURVEILLANCE
			QUANTITY	J000	Y030-1E	Y032-1F
50300225	CONCRETE STRUCTURES	CY	0.0	0.0	0.0	0.0
42001300	PROTECTIVE COAT	SQ YD	98	98	0	0
* 50200400	ROCK EXCAVATION FOR STRUCTURES	CY	10	10	0	0
50300510	RUSTICATION FINISH	50 FT	0.0	0.0	0.0	0.0
50800205	REINFORCEMENT BARS, EPOXY COATED	LBS	0	0	0	0
54201267	PIPE CULVERTS, TYPE 2, RCCP, 12"	FOOT	67	0	67	0
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	EACH	6	0	6	0
60600605	CONCRETE CURB, TYPE B	FOOT	0	0	0	0
60603800	COMBINATION CURB AND CUTTER, TYPE B-6.12	FOOT	0	0	0	0
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	1	1	0	0
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	133	133	0	0
66400305	CHAIN LINK FENCE, 6'	FOOT	982	982	0	0
66410300	CHAIN LINK FENCE REMOVAL	FOOT	973	973	0	0
66400520	CHAIN LINK FENCE, 12'	FOOT	155	155	0	0
66407600	CHAIN LINK GATES, 6' X 12' DOUBLE	EACH	1	1	0	0
66410400	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	773	773	0	0
* 66900200	NON-SPECIAL WASTE DISPOSAL	CY	796	152	644	0
* 66900450	SPECIAL WASTE PLANS AND REPORT	L SUM	1	0	0	1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	10	4	6	0
67100100	MOBILIZATION	L SUM	1	0.33	0.34	0.33
* 72000100	SIGN PANEL - TYPE 1	SQ FT	266	0	0	266
* 72000300	SIGN PANEL - TYPE 3	SQ FT	179	0	0	179
** * 72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	LBS	954	0	0	954
73400100	CONCRETE FOUNDATIONS	CY	4	0	0	4
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1	0	0
80700140	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	410	0	410	0
80802600	WOOD POLE, 50 FT., CLASS 2	EACH	1	0	0	1
80800300	TEMPORARY WOOD POLE, 45 FT., CLASS 4	EACH	0	0	0	0
80800400	TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	32	0	24	8
80800500	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	43	0	43	0
80800520	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 8 FT. MAST ARM	EACH	0	0	0	0
80800850	TEMPORARY WOOD POLE, 90 FT., CLASS 4, 15 FT. MAST ARM	EACH	22	0	22	0
81000400	CONDUIT IN TRENCH, 1 1/4" DIA., GALVANIZED STEEL	FOOT	0	0	0	0

(**) SFTY - 3C
* SPECIALTY ITEMS



REVISIONS	
NAME	DATE
REVISION #4	3/24/05
REVISION #1	12/17/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SUMMARY OF QUANTITIES

SCALE: NONE DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: JPC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	5
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	URBAN	QUANTITIES		
			90% FED 10/15/97E	CIVIL	LIGHTING	SURVEILLANCE
				J000	Y030-1E	Y032-1F
8100600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	0	0	0	0
8100800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	782	0	782	0
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	1,794	0	1,757	37
X8100060	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL, PVC COATED	FOOT	20	0	20	0
X8101300	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL, PVC COATED	FOOT	550	0	550	0
81016400	CONDUIT IN TRENCH, 1 1/4" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	304,367	0	0	304,367
81016600	CONDUIT IN TRENCH, 2" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	88,656	0	0	88,656
81016800	CONDUIT IN TRENCH, 3" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	13,163	0	600	12,563
81017000	CONDUIT IN TRENCH, 4" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	80	0	0	80
81018525	CONDUIT PUSHED, 2" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	0	0	0	0
81018925	CONDUIT PUSHED, 4" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	600	0	0	600
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	11,843	0	0	11,843
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	924	0	76	848
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1,739	0	1,739	0
81022300	CONDUIT ENCASED IN CONCRETE, 4" DIA., PVC	FOOT	2,740	0	0	2,740
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	300	0	300	0
81300410	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 4"	EACH	0	0	0	0
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	250	0	250	0
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	10	0	10	0
81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	20	0	1	19
81300840	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 12"	EACH	2	0	0	2
81300960	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12"	EACH	8	0	8	0
81306400	RELOCATE EXISTING JUNCTION BOX	EACH	64	0	64	0
81306500	REMOVE EXISTING JUNCTION BOX	EACH	11	0	11	0
81400100	HANDHOLE	EACH	1	0	1	0
81400200	HEAVY-DUTY HANDHOLE	EACH	114	0	0	114
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	213,469	0	75,780	137,689
81700110	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 10	FOOT	60,729	0	60,729	0
81800100	AERIAL CABLE, 3-1/C NO. 3/0, ALUMINUM, WITH MESSENGER WIRE	FOOT	1,400	0	1,400	0
X8180050	AERIAL CABLE, 3-1/C NO. 4/0, ALUMINUM, WITH MESSENGER WIRE	FOOT	2,557	0	0	2,557
81800700	AERIAL CABLE, 3-1/C NO. 2 AWG, ALUMINUM, WITH MESSENGER WIRE	FOOT	27,118	0	26,771	347
X8180080	AERIAL CABLE, 1-6/C NO. 19, WITH MESSENGER WIRE	FOOT	2,904	0	0	2,904
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	4	0	4	0

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REVISIONS	
NAME	DATE
REVISION #4	3/24/05
REVISION #1	12/17/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SUMMARY OF QUANTITIES

SCALE: NONE
DATE: October 29, 2004
DRAWN BY: CJM
CHECKED BY: JPC



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	6
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	URBAN	QUANTITIES		
			90% FED. 10% STATE	CIVIL	LIGHTING	SURVEILLANCE
			QUANTITY	J000	Y030-1E	Y032-IF
82106100	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	EACH	824	0	824	0
82107110	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR, STAINLESS STEEL HOUSING	EACH	366	0	366	0
82107310	UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR, STAINLESS STEEL HOUSING	EACH	8	0	8	0
83050860	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-6 FT. MAST ARMS	EACH	2	0	2	0
83600200	LIGHT POLE FOUNDATION, 24" DIA.	FOOT	0	0	0	0
83700250	LIGHT TOWER FOUNDATION, 44" DIAMETER	FOOT	1,955	0	1,955	0
84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	22	0	22	0
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	630	0	630	0
84200705	LIGHTING FOUNDATION REMOVAL, PARTIAL	EACH	24	0	24	0
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	8	0	8	0
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	8	0	8	0
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	8	0	8	0
86300400	CONTROLLER CABINET TYPE IV	EACH	2	0	0	2
87000212	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 3/C NO. 2 AND NO. 6 GROUND	FOOT	2,300	0	0	2,300
87302405	ELECTRIC CABLE AERIAL SUSPENDED, COMMUNICATIONS, NO. 18 3 PAIR	FOOT	0	0	0	0
87502100	TRAFFIC SIGNAL POST, PAINTED STEEL 2.5 FT	EACH	7	0	0	7
87502207	TRAFFIC SIGNAL POST, PAINTED STEEL 5 FT.	EACH	20	0	0	20
87502210	TRAFFIC SIGNAL POST, PAINTED STEEL 7 FT	EACH	9	0	0	9
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12	0	0	12
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	9	0	0	9
87900200	DRILL EXISTING HANDHOLE	EACH	18	0	0	18
88600300	DETECTOR LOOP, TYPE III	FOOT	1,809	0	0	1,809
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,886	0	0	3,886
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3,605	0	0	3,605
X0321973	MODIFY EXISTING SERVICE INSTALLATION	EACH	2	0	1	1
X0322256	TEMPORARY INFORMATION SIGNING	50 FT	0	0	0	0
X0322300	ELECTRIC CABLE IN CONDUIT NO. 18 4/C, TWISTED, SHIELDED	FOOT	147,009	0	0	147,009
X0322920	COMMUNICATIONS CABINET AND EQUIPMENT	EACH	1	0	0	1
X0323360	WOODEN POLE REMOVAL	EACH	143	0	135	8
X0323363	ELECTRIC CABLE IN CONDUIT, NO. 12 3/C	FOOT	5,134	0	0	5,134
X0323364	ELECTRIC CABLE IN CONDUIT, NO. 19 6/C	FOOT	2,926	0	0	2,926
X0324790	ELECTRIC CABLE IN CONDUIT, NO. 19 12/C	FOOT	536	0	0	536

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REVISIONS	
NAME	DATE
REVISION #4	3/24/05
REVISION #1	12/17/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SUMMARY OF QUANTITIES

SCALE: NONE
DATE: October 29, 2004

DRAWN BY: CJM
CHECKED BY: JPC

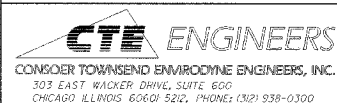
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	7
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	90% FED. 10% STATE	QUANTITIES		
			URBAN	CIVIL	LIGHTING	SURVEILLANCE
			QUANTITY	J000	Y030-1E	Y032-1F
X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE, INLET FILTER CLEANING	EACH	282	282	0	0
X0323574	MAINTAIN LIGHTING SYSTEM	CAL MO	33	0	33	0
X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	2,158	0	2,158	0
X0323900	CONCRETE FOUNDATION, TYPE 1	FOOT	206	0	0	206
X0323907	COMMUNICATIONS VAULT	EACH	31	0	0	31
X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	66	0	0	66
X0323917	CABINET, MODEL 334	EACH	49	0	0	49
X0323957	FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	15	0	0	15
X0324190	REMOVE AND SALVAGE EXISTING SURVEILLANCE EQUIPMENT	LSUM	1	0	0	1
X0324191	REMOVE EXISTING SURVEILLANCE EQUIPMENT	LSUM	1	0	0	1
X0324292	MAINTENANCE OF EXISTING TRAFFIC SURVEILLANCE	CAL MO	33	0	0	33
X0324294	NON-INVASIVE, MAGNETO-INDUCTIVE VEHICLE DETECTOR	EACH	123	0	0	123
X0324433	LIGHT TOWER SERVICE PAD, 6"	50 FT	0	0	0	0
X0324791	UTILITY TRANSFORMER PAD, 4"	EACH	5	0	5	0
X0324510	LIGHTING CONTROLLER FOUNDATION	EACH	8	0	8	0
X0324591	NON-INVASIVE, MAGNETO-INDUCTIVE VEHICLE DETECTOR ASSEMBLY	EACH	571	0	0	571
X0324592	2070 CONTROLLER	EACH	45	0	0	45
X0324593	HAR FLASHING BEACON ASSEMBLY	EACH	3	0	0	3
X0324594	HIGHWAY ADVISORY RADIO STATION	EACH	1	0	0	1
X0324596	CABINET, MODEL 334 EQUIPMENT, RAMP METER/SYSTEM DETECTOR	EACH	15	0	0	15
X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	26	0	0	26
X0324598	RAMP METER FLASHER	EACH	14	0	0	14
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	0	0	0	0
X0324600	UPGRADE EXISTING HIGHWAY ADVISORY RADIO STATION	EACH	0	0	0	0
X0324602	UNIT DUCT, WITH 1 RG-8/U COAXIAL CABLE, 1 1/4" DIA., POLYETHYLENE	FOOT	80	0	0	80
X0324606	TEMPORARY CCTV CAMERA STATION, RELOCATE	EACH	6	0	0	6
X0324607	TEMPORARY CCTV CAMERA STATION, REMOVE AND SALVAGE	EACH	10	0	0	10
X0324884	TEMPORARY CCTV CAMERA STATION MONTHLY MAINTENANCE	CAL MO	24	0	0	24
X4066414	BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE, MIX "C", N50	TON	21	4	0	17
X4066426	BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE, MIX "D", N70	TON	19	19	0	0
X4066614	BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE, IL-19.0, N50	TON	49	9	0	40
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.33	0.34	0.33

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REVISIONS	
NAME	DATE
REVISION #4	3/24/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SUMMARY OF QUANTITIES

SCALE: NONE DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: JPC

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62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	90% FED. 10% STATE	QUANTITIES		
			URBAN	CIVIL	LIGHTING	SURVEILLANCE
			QUANTITY	J000	Y030-1E	Y032-IF
X7015050	PORTABLE CHANGEABLE MESSAGE SIGN	GAL MO	0	0	0	0
X7040600	FURNISH TEMPORARY CONCRETE BARRIER	FOOT	1,120	1,120	0	0
X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	5	5	0	0
X8040100	ELECTRIC CONNECTION TO SIGN STRUCTURE	EACH	71	0	71	0
B1023750	CONDUIT ENCASED, CONCRETE, 3" DIA., PVC	FOOT	126	0	0	126
X8100045	CONDUIT ENCASED, REINFORCED CONCRETE, 1-3" DIA., CNC	FOOT	252	0	252	0
X0324792	CONDUIT ENCASED, REINFORCED CONCRETE, 2-5" DIA., RGC, 2WIDE X 1 HIGH	FOOT	947	0	947	0
X8110110	CONDUIT ATTACHED TO STRUCTURE, 1" DIA. GALVANIZED STEEL, PVC COATED	FOOT	15,686	0	15,686	0
X8110115	CONDUIT ATTACHED TO STRUCTURE, 2" DIA. GALVANIZED STEEL, PVC COATED	FOOT	10,849	0	84	10,765
X8110121	CONDUIT ATTACHED TO STRUCTURE, 3" DIA. GALVANIZED STEEL, PVC COATED	FOOT	1,267	0	1,267	0
X8160160	UNIT DUCT, WITH 2-1/C NO. 4 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	11,577	0	0	11,577
X8160370	UNIT DUCT, WITH 3-1/C NO. 4 AND 1/C NO. 6 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	31,141	0	31,141	0
X8160380	UNIT DUCT, WITH 3-1/C NO. 2 AND 1/C NO. 4 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	98,793	0	98,793	0
X8210020	TEMPORARY LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT	EACH	22	0	22	0
X8210055	FLUORESCENT LUMINAIRE FOR SIGN LIGHTING	EACH	284	0	284	0
X8250070	TEMPORARY LIGHTING CONTROLLER (INSTALL ONLY)	EACH	2	0	2	0
X0324280	LIGHTING CONTROLLER, RADIO CONTROL, DUPLEX TYPE WITH SCADA AND VIDEO POWER	EACH	6	0	6	0
X8324181	DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	49	0	49	0
X8350205	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12, INSTALL ONLY	EACH	42	0	42	0
X8350305	LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12, INSTALL ONLY	EACH	82	0	82	0
X8350405	LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12, INSTALL ONLY	EACH	11	0	11	0
X8420102	REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE	EACH	384	0	384	0
X8710028	FIBER OPTIC CABLE 6 FIBERS, SINGLE MODE	FOOT	8,745	0	0	8,745
X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	0	0	0	0
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	201,469	0	0	201,469
X8710035	FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE	FOOT	61,654	0	0	61,654
X8801200	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 2-SECTION, BRACKET MOUNTED	EACH	2	0	0	2
X8801210	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 2-SECTION, POST MOUNTED	EACH	26	0	0	26
XX004046	AERIAL CABLE REMOVAL	FOOT	20,008	0	14,200	5,808
XX004383	RELOCATE EXISTING CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	0	0	1
XX104800	COMBINATION CONCRETE CURB AND GUTTER TYPE B-V, 12	FOOT	115	115	0	0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0	1	0



REVISIONS	
NAME	DATE
REVISION #4	3/24/05
REVISION #1	12/17/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SUMMARY OF QUANTITIES

SCALE: NONE
DATE: October 29, 2004
DRAWN BY: CJM
CHECKED BY: JPC

03/21/2005 03:06:34 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	9
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	90% FED. 10% STATE	QUANTITIES		
			URBAN	CIVIL	LIGHTING	SURVEILLANCE
			QUANTITY	J000	Y030-1E	Y032
Z0076600	TRAINEES	HOUR	5,000	5,000	0	0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.33	0.34	0.33
X0324793	LIGHT TOWER SERVICE PAD, SPECIAL	50 FT	0	0	0	0
X8300575	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 16 FT. MAST ARM	EACH	0	0	0	0
X0324810	ELECTRIC SERVICE INSTALLATION, 30A, 120V	EACH	31	0	0	31
X0324252	ELECTRIC SERVICE INSTALLATION, 100A, 120/240V	EACH	3	0	0	3
X0324254	ELECTRIC SERVICE INSTALLATION, 200A, 120/240V	EACH	6	0	0	6
X0324811	ELECTRIC SERVICE INSTALLATION, 200A, 240/480V	EACH	9	0	9	0
B7000172	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 3/C NO. 4 AND NO. 6 GROUND	FOOT	174	0	174	0
B7000214	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 3/C NO. 2 AND NO. 4 GROUND	FOOT	2,207	0	2,207	0
X8700550	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 3/C NO. 350 MCM	FOOT	715	0	715	0
X8160145	UNIT DUCT, WITH 2-1/C NO. 2 AND 1/C NO. 2 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	6,653	0	0	6,653
X8110125	CONDUIT ATTACHED TO STRUCTURE, 4" DIA. GALVANIZED STEEL, PVC COATED	FOOT	1,350	0	1,350	0
X6640200	TEMPORARY CHAIN LINK FENCE	FOOT	1,755	1,755	0	0
X0324794	COMMUNICATIONS SHELTER, 10 X 12	EACH	1	0	0	1
X0324795	COMMUNICATIONS SHELTER, 10 X 20	EACH	1	0	0	1
X0324796	CONCRETE FOUNDATION, TYPE 2	FOOT	190	0	0	190
X8710045	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE PIGTAIL	FOOT	2,290	0	0	2,290
X8710034	FIBER OPTIC CABLE 60 FIBERS, SINGLE MODE	FOOT	30,599	0	0	30,599
X8710052	FIBER OPTIC TERMINATION PANEL, 12F	EACH	52	0	0	52
X8670100	PULLING PEDESTAL	EACH	19	0	0	19
	SIGNAL HEAD, POLYCARBONATE, LED, 1 FACE, 2 SECTION, WALL MOUNTED	EACH	0	0	0	0
X0324797	ELECTRIC CABLE IN CONDUIT, 2/C NO. 2, 1/C NO. 6 GND	FOOT	12,562	0	0	12,562
X0324798	ELECTRIC CABLE IN CONDUIT, 2/C NO. 4, 1/C NO. 6 GND	FOOT	20,065	0	0	20,065
X0324799	ELECTRIC CABLE IN CONDUIT, 2/C NO. 1/0, 1/C NO. 6 GND	FOOT	3,442	0	0	3,442
X0324800	CABINET, MODEL 334, DYNAMIC MESSAGE SIGN	EACH	5	0	0	5
X0324801	CABINET, MODEL 334, UNINTERRUPTIBLE POWER SYSTEM	EACH	0	0	0	0
X0324802	CABINET, MODEL 334 EQUIPMENT, SYSTEM DETECTOR	EACH	27	0	0	27
X0324803	CABINET, MODEL 334 EQUIPMENT, RAMP METER	EACH	14	0	0	14
X0324804	CABINET, MODEL 334 EQUIPMENT, DMS/SYSTEM DETECTOR	EACH	1	0	0	1
X0324805	CABINET, MODEL 334 EQUIPMENT, DYNAMIC MESSAGE SIGN	EACH	5	0	0	5
X0324806	CABINET, MODEL 334 EQUIPMENT, UNINTERRUPTIBLE POWER SYSTEM	EACH	0	0	0	0

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REVISIONS	NAME	DATE
REVISION #4		3/24/05
REVISION #1		12/17/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SUMMARY OF QUANTITIES

SCALE: NONE
DATE: October 29, 2004

DRAWN BY: CJM
CHECKED BY: JPC

03/24/2005 02:16:22 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62583

SUMMARY OF QUANTITIES						
CODE NO.	ITEM	UNIT	90% FED.	QUANTITIES		
			10% STATE	CIVIL	LIGHTING	SURVEILLANCE
			URBAN	J000	Y030-1E	Y032 -IF
X0324807	CLOSED CIRCUIT TELEVISION CABINET EQUIPMENT	EACH	16	0	0	16
X0323898	CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	20	0	0	20
X0324237	CCTV DOME CAMERA HIGH MAST TOWER INSTALLATION	EACH	10	0	0	10
X0324808	CCTV DOME CAMERA HIGH MAST TOWER INSTALLATION, EXISTING TOWER	EACH	4	0	0	4
X0324809	CLOSED CIRCUIT TELEVISION DOME CAMERA SIGN TRUSS INSTALLATION	EACH	2	0	0	2
X8950112	MODIFY EXISTING SURVEILLANCE CABINET	EACH	5	0	0	5
X0324605	TEMPORARY CCTV CAMERA STATION	EACH	4	0	0	4
X0324812	NEW DMS - CHICAGO RIVER	L SUM	1	0	0	1
X0324813	TEMPORARY DETECTION STATION	EACH	0	0	0	0
X0324814	TEMPORARY DETECTION SYSTEM, REMOVE AND SALVAGE	L SUM	0	0	0	0
X0324815	TEMPORARY DETECTION SYSTEM MONTHLY MAINTENANCE	CAL MO	0	0	0	0
X0324816	TEMPORARY DETECTION HUB	EACH	0	0	0	0
X0324817	TEMPORARY DETECTION HUB, RELOCATE	EACH	0	0	0	0
X0324818	CCTV DISTRIBUTION SUBSYSTEM, COMCENTER	L SUM	1	0	0	1
X0324819	CCTV DISTRIBUTION SUBSYSTEM, TRAFFIC SYSTEMS CENTER	L SUM	1	0	0	1
X0324820	CCTV DISTRIBUTION SUBSYSTEM, I-80 AT STATE LINE	L SUM	1	0	0	1
X0324821	CCTV DISTRIBUTION SUBSYSTEM, I-57 AT I-294	L SUM	1	0	0	1
X0324822	CCTV DISTRIBUTION SUBSYSTEM, I-57 AT I-94	L SUM	1	0	0	1
X0324823	CCTV DISTRIBUTION SUBSYSTEM, I-55 AT I-94	L SUM	1	0	0	1
X0324824	CCTV DISTRIBUTION SUBSYSTEM, HILLSIDE	L SUM	1	0	0	1
X0324825	CCTV DISTRIBUTION SUBSYSTEM, EMERGENCY TRAFFIC PATROL	L SUM	0	0	0	0
X0324826	TRAFFIC SURVEILLANCE SYSTEM, TRAFFIC SYSTEMS CENTER	L SUM	0	0	0	0
X0324827	TRAFFIC SURVEILLANCE SYSTEM, I 57 AT I 94	L SUM	0	0	0	0
X0324828	TRAFFIC SURVEILLANCE SYSTEM, I 55 AT I 94	L SUM	0	0	0	0
X0324829	HIGHWAY ADVISORY RADIO CENTRAL SYSTEM UPGRADE	L SUM	1	0	0	1
X0324830	HIGHWAY ADVISORY RADIO COMMUNICATIONS EQUIPMENT	L SUM	1	0	0	1
X0324831	UNINTERRUPTIBLE POWER SUPPLY UPGRADE	L SUM	0	0	0	0
X0324882	PACKAGED STANDBY ENGINE GENERATOR SYSTEM, INSTALLATION ONLY	EACH	2	0	0	2
X0324883	PACKAGED STANDBY ENGINE GENERATOR SYSTEM, REIMBURSEMENT ONLY	L SUM	0	0	0	0
X0324834	TEMPORARY DYNAMIC MESSAGE SIGN SYSTEM	L SUM	1	0	0	1
X0324945	LED DYNAMIC MESSAGE SIGN FULL-MATRIX CONFIGURATION, INSTALL ONLY	EACH	11	0	0	11
X8700200	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 3/C NO. 2/0 AND NO. 6 GROUND	FOOT	1,816	0	0	1,816
X8700210	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (EPR-TYPE TC) 3/C NO. 4/0 AND NO. 4 GROUND	FOOT	2,321	0	0	2,321

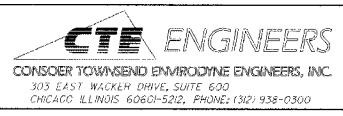
8 OF 9

REVISIONS	
NAME	DATE
REVISION #4	3/24/05
REVISION #1	12/17/04

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

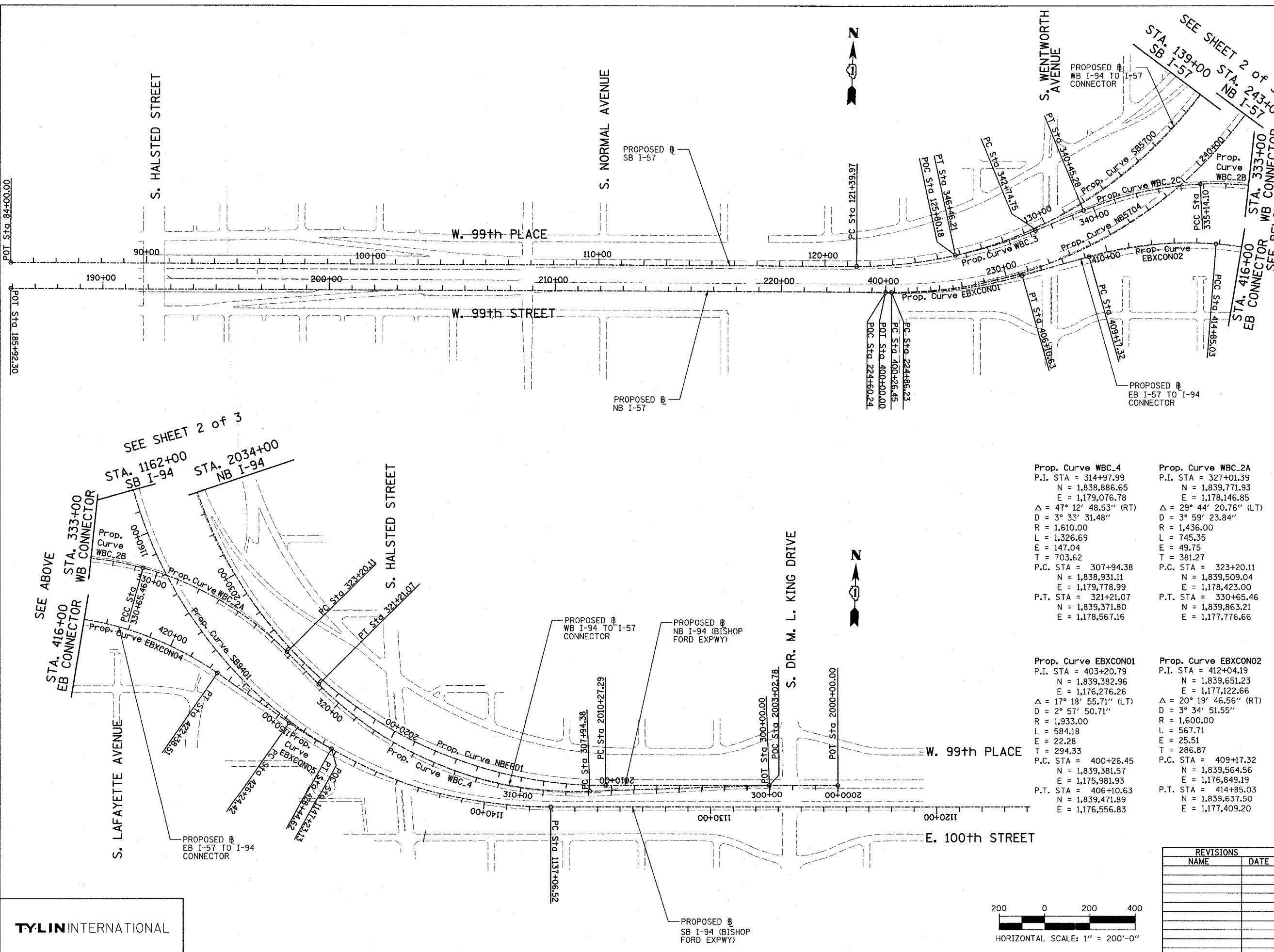
SUMMARY OF QUANTITIES

SCALE: NONE
DATE: October 29, 2004
DRAWN BY: CJM
CHECKED BY: JPC



03/24/2005 02:55:07 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	276	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583	



Prop. Curve NB5704	Prop. Curve SB5700
P.I. STA = 235+20.23	P.I. STA = 133+70.06
N = 1,839,407.65	N = 1,839,521.70
E = 1,177,015.14	E = 1,177,054.03
$\Delta = 56^\circ 09' 47.10''$ (LT)	$\Delta = 66^\circ 11' 55.15''$ (LT)
D = 2° 57' 23.18"	D = 3° 02' 10.83"
R = 1,938.00	R = 1,887.00
L = 1,899.69	L = 2,180.21
E = 258.59	E = 365.53
T = 1,033.99	T = 1,230.09
P.C. STA = 224+86.23	P.C. STA = 121+39.97
N = 1,839,382.09	N = 1,839,491.52
E = 1,175,981.46	E = 1,175,824.31
P.T. STA = 243+85.92	P.T. STA = 143+20.18
N = 1,840,280.48	N = 1,840,659.02
E = 1,177,569.49	E = 1,177,522.68

Prop. Curve SB9401	Prop. Curve NBFDR1
P.I. STA = 1160+15.97	P.I. STA = 2029+29.73
N = 1,838,783.95	N = 1,838,902.75
E = 1,177,299.83	E = 1,177,946.02
$\Delta = 100^\circ 48' 58.07''$ (RT)	$\Delta = 90^\circ 04' 24.06''$ (RT)
D = 2° 59' 59.20"	D = 3° 00' 56.04"
R = 1,910.00	R = 1,900.00
L = 3,360.79	L = 2,986.95
E = 1,086.95	E = 788.73
T = 2,309.46	T = 1,902.43
P.C. STA = 1137+06.52	P.C. STA = 2010+27.29
N = 1,838,851.99	N = 1,838,959.64
E = 1,179,608.28	E = 1,179,847.60
P.T. STA = 1170+67.30	P.T. STA = 2040+14.24
N = 1,841,064.16	N = 1,840,804.40
E = 1,177,666.20	E = 1,177,891.56

Prop. Curve WBC.4
P.I. STA = 314+97.99
N = 1,838,886.65
E = 1,179,076.78
$\Delta = 47^\circ 12' 48.53''$ (RT)
D = 3° 33' 31.48"
R = 1,610.00
L = 1,326.69
E = 147.04
T = 703.62
P.C. STA = 307+94.38
N = 1,838,931.11
E = 1,179,778.99
P.T. STA = 321+21.07
N = 1,839,371.80
E = 1,178,567.16

Prop. Curve WBC.2A
P.I. STA = 327+01.39
N = 1,839,771.93
E = 1,178,146.85
$\Delta = 29^\circ 44' 20.76''$ (LT)
D = 3° 59' 23.84"
R = 1,436.00
L = 745.35
E = 49.75
T = 381.27
P.C. STA = 323+20.11
N = 1,839,509.04
E = 1,178,423.00
P.T. STA = 330+65.46
N = 1,839,863.21
E = 1,177,776.66

Prop. Curve WBC.2B
P.I. STA = 332+91.75
N = 1,839,917.38
E = 1,177,556.95
$\Delta = 18^\circ 29' 34.12''$ (LT)
D = 4° 07' 19.19"
R = 1,390.00
L = 448.64
E = 18.30
T = 226.29
P.C. STA = 330+65.46
N = 1,839,863.21
E = 1,177,776.66
P.T. STA = 335+14.10
N = 1,839,899.07
E = 1,177,331.41

Prop. Curve WBC.2C
P.I. STA = 337+82.29
N = 1,839,877.37
E = 1,178,064.10
$\Delta = 19^\circ 30' 39.60''$ (LT)
D = 3° 40' 23.35"
R = 1,559.85
L = 531.18
E = 22.89
T = 268.19
P.C. STA = 335+14.10
N = 1,839,899.07
E = 1,177,331.41
P.T. STA = 340+45.28
N = 1,839,767.64
E = 1,176,819.39

Prop. Curve EBXCON01
P.I. STA = 403+20.79
N = 1,839,382.96
E = 1,176,276.26
$\Delta = 17^\circ 18' 55.71''$ (LT)
D = 2° 57' 50.71"
R = 1,933.00
L = 584.18
E = 22.28
T = 294.33
P.C. STA = 400+26.45
N = 1,839,381.57
E = 1,175,981.93
P.T. STA = 406+10.63
N = 1,839,471.89
E = 1,176,556.83

Prop. Curve EBXCON02
P.I. STA = 412+04.19
N = 1,839,651.23
E = 1,177,794.53
$\Delta = 20^\circ 19' 46.56''$ (RT)
D = 3° 34' 51.55"
R = 1,600.00
L = 567.71
E = 25.51
T = 286.87
P.C. STA = 409+17.32
N = 1,839,564.56
E = 1,176,849.19
P.T. STA = 414+85.03
N = 1,839,637.50
E = 1,177,409.20

Prop. Curve EBXCON04
P.I. STA = 418+70.80
N = 1,839,619.04
E = 1,177,944.53
$\Delta = 30^\circ 17' 44.12''$ (RT)
D = 4° 01' 14.72"
R = 1,425.00
L = 753.48
E = 51.29
T = 385.77
P.C. STA = 414+85.03
N = 1,839,637.50
E = 1,177,409.20
P.T. STA = 422+38.51
N = 1,839,408.71
E = 1,178,117.92

Prop. Curve EBXCON05
P.I. STA = 427+34.61
N = 1,839,138.24
E = 1,178,533.79
$\Delta = 5^\circ 38' 50.84''$ (LT)
D = 2° 33' 52.98"
R = 2,234.00
L = 220.20
E = 2.72
T = 110.19
P.C. STA = 426+24.42
N = 1,839,198.31
E = 1,178,441.42
P.T. STA = 428+44.62
N = 1,839,087.55
E = 1,178,631.63

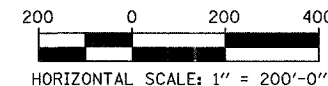
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57

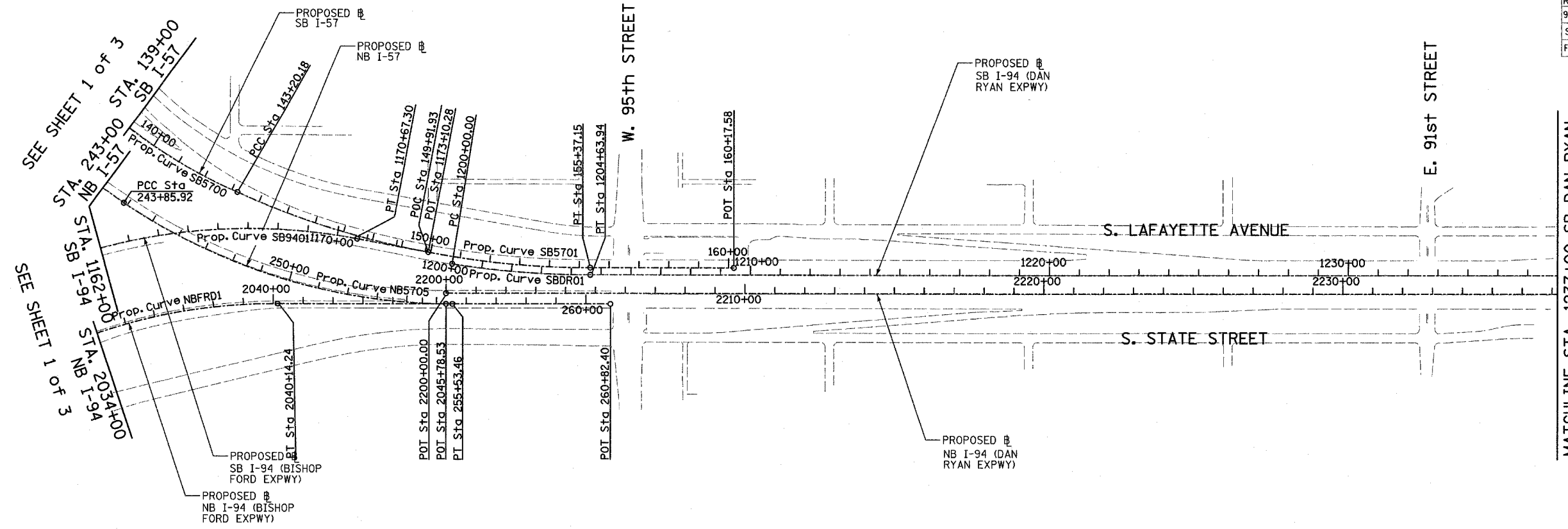
ALIGNMENT
SHEET 1 OF 3

SCALE: 1"=200'-0"
 DATE: OCTOBER 29, 2004

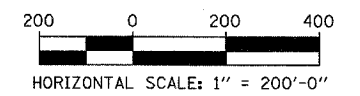
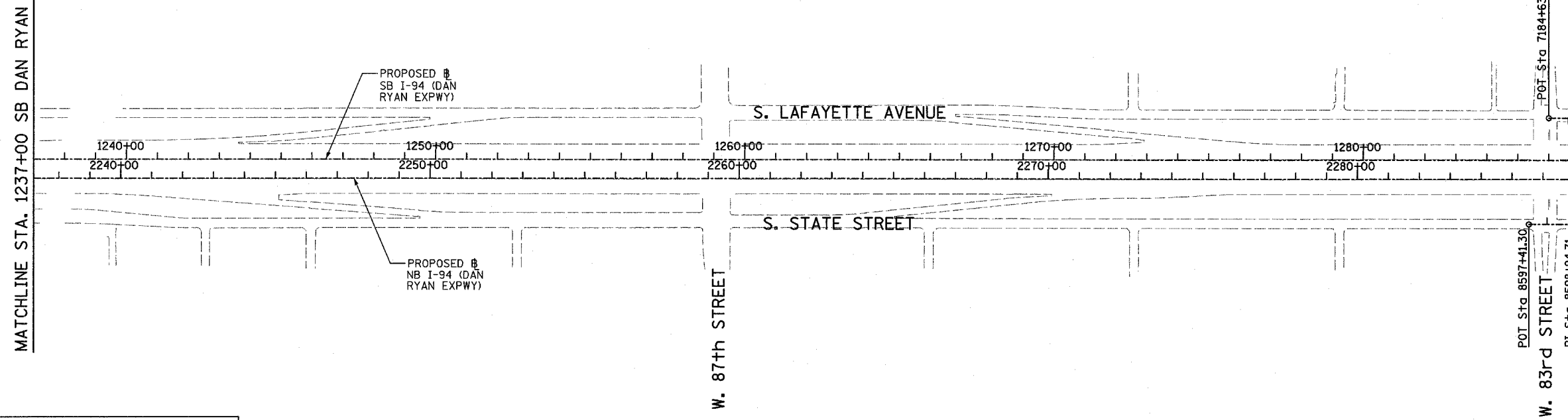
DRAWN BY: JPM
 CHECKED BY: DAK



TYLIN INTERNATIONAL



<p>Prop. Curve NBFRD1 P.I. STA = 2029+29.73 N = 1,838,902.75 E = 1,177,946.02 Δ = 90° 04' 24.06" (RT) D = 3° 00' 56.04" R = 1,900.00 L = 2,986.95 E = 788.73 T = 1,902.43 P.C. STA = 2010+27.29 N = 1,838,959.64 E = 1,179,847.60 P.T. STA = 2040+14.24 N = 1,840,804.40 E = 1,177,891.56</p>	<p>Prop. Curve SB9401 P.I. STA = 1160+15.97 N = 1,838,783.95 E = 1,177,299.83 Δ = 100° 48' 58.07" (RT) D = 2° 59' 59.20" R = 1,910.00 L = 3,360.79 E = 1,086.95 T = 2,309.46 P.C. STA = 1137+06.52 N = 1,838,851.99 E = 1,179,608.28 P.T. STA = 1170+67.30 N = 1,841,064.16 E = 1,177,666.20</p>	<p>Prop. Curve SB5700 P.I. STA = 133+70.06 N = 1,839,521.70 E = 1,177,054.03 Δ = 66° 11' 55.15" (LT) D = 3° 02' 10.83" R = 1,887.00 L = 2,180.21 E = 365.53 T = 1,230.09 P.C. STA = 121+39.97 N = 1,839,491.52 E = 1,175,824.31 P.T. STA = 143+20.18 N = 1,840,659.02 E = 1,177,522.68</p>	<p>Prop. Curve SB5701 P.I. STA = 149+37.75 N = 1,841,230.00 E = 1,177,757.97 Δ = 24° 02' 07.49" (LT) D = 1° 58' 30.13" R = 2,901.00 L = 1,216.96 E = 65.01 T = 617.56 P.C. STA = 143+20.18 N = 1,840,659.02 E = 1,177,522.68 P.T. STA = 155+37.15 N = 1,841,847.31 E = 1,177,740.29</p>	<p>Prop. Curve NB5705 P.I. STA = 249+87.51 N = 1,840,788.31 E = 1,177,892.02 Δ = 34° 03' 37.98" (LT) D = 2° 55' 02.28" R = 1,964.00 L = 1,167.54 E = 90.07 T = 601.59 P.C. STA = 243+85.92 N = 1,840,280.48 E = 1,177,569.49 P.T. STA = 255+53.46 N = 1,841,389.65 E = 1,177,874.80</p>	<p>Prop. Curve SBDR01 P.I. STA = 1202+32.46 N = 1,841,615.64 E = 1,177,770.94 Δ = 9° 05' 16.13" (LT) D = 1° 57' 31.79" R = 2,925.00 L = 463.94 E = 9.22 T = 232.46 P.C. STA = 1200+00.00 N = 1,841,385.14 E = 1,177,740.80 P.T. STA = 1204+63.94 N = 1,841,848.00 E = 1,177,764.28</p>
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MATCHLINE STA. 1287+00 SB DAN RYAN
SEE SHEET 3 OF 3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ALIGNMENT
SHEET 2 OF 3

SCALE: 1"=200'
DATE: OCTOBER 29, 2004

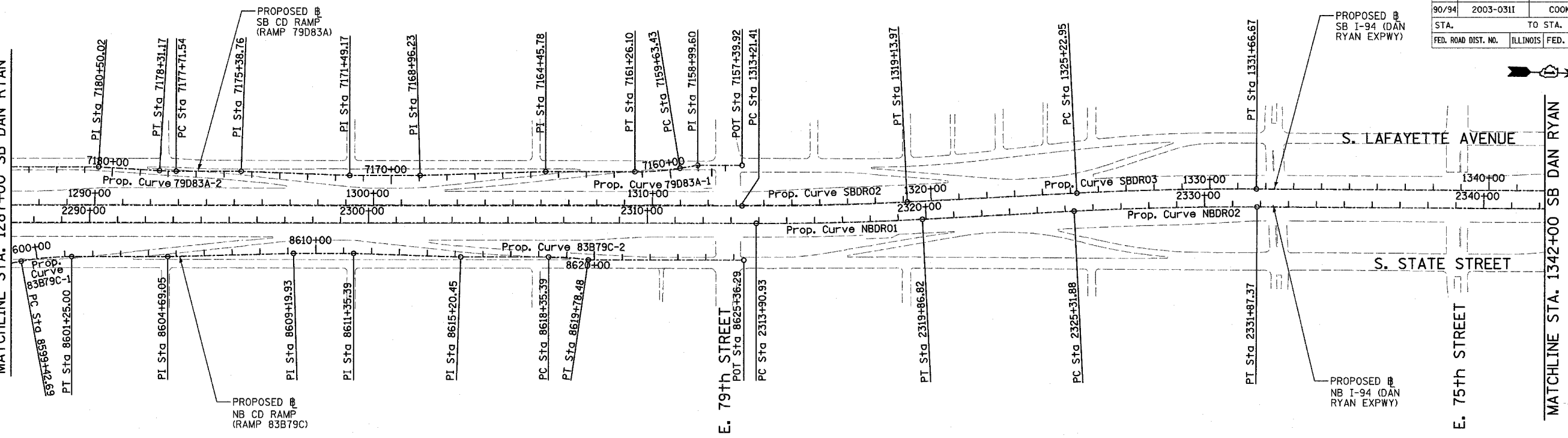
DRAWN BY: JPM
CHECKED BY: DAK

TYLIN INTERNATIONAL

17/23/2004 06:23:30 PM

SB C-D RAMP (RAMP 79D83A)
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 N = 1,852,696.86
 E = 1,177,308.11
 P.I. STA = 7158+99.60
 N = 1,852,537.24
 E = 1,177,312.68
 P.I. STA = 7164+45.78
 N = 1,851,993.52
 E = 1,177,351.80
 P.I. STA = 7168+96.23
 N = 1,851,543.85
 E = 1,177,378.34
 P.I. STA = 7171+49.17
 N = 1,851,291.02
 E = 1,177,385.58
 P.I. STA = 7175+38.76
 N = 1,850,901.43
 E = 1,177,383.07
 P.I. STA = 7180+50.02
 N = 1,850,390.38
 E = 1,177,382.88
 POT STA = 7184+63.76
 N = 1,849,976.81
 E = 1,177,394.72

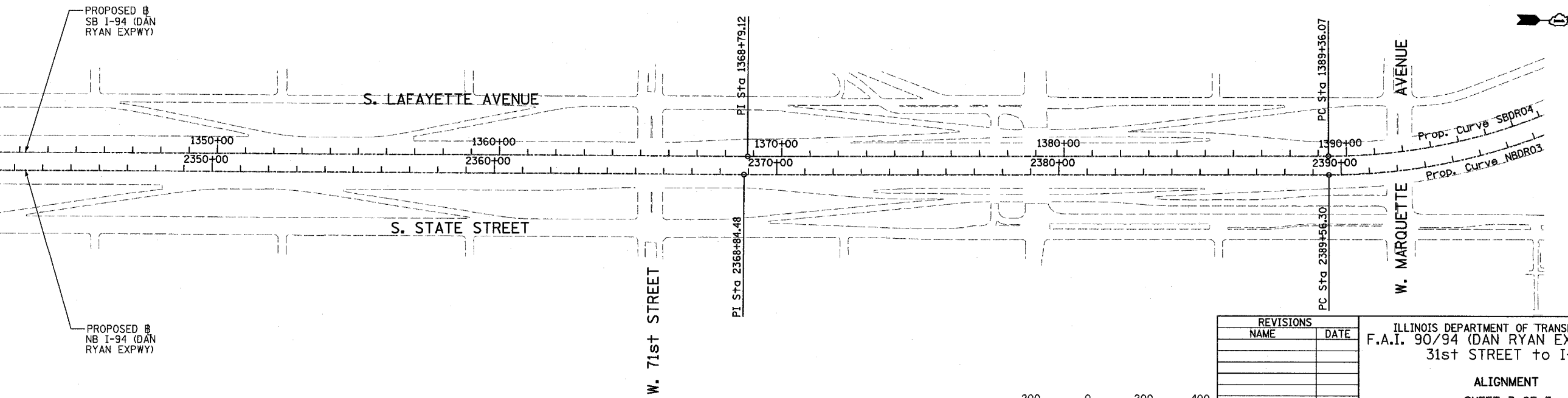
SEE SHEET 2 OF 3
 MATCHLINE STA. 1287+00 SB DAN RYAN



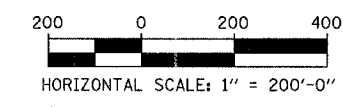
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 POT STA = 8597+41.30
 N = 1,849,922.39
 E = 1,177,740.85
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 N = 1,850,075.74
 E = 1,177,736.46
 P.I. STA = 8604+69.05
 N = 1,850,647.32
 E = 1,177,694.81
 P.I. STA = 8609+19.93
 N = 1,851,097.46
 E = 1,177,669.09
 P.I. STA = 8611+35.39
 N = 1,851,312.84
 E = 1,177,662.92
 P.I. STA = 8615+20.45
 N = 1,851,697.89
 E = 1,177,664.73
 POT STA = 8625+36.29
 N = 1,852,713.12
 E = 1,177,645.88

Prop. Curve 79D83A-1 P.I. STA = 7160+44.94 N = 1,852,394.55 E = 1,177,340.32 Δ = 9° 19' 12.90" (RT) D = 5° 43' 46.48" R = 1,000.00 L = 162.67 E = 3.32 T = 81.51 P.C. STA = 7159+63.43 N = 1,852,474.58 E = 1,177,324.82 P.T. STA = 7161+26.10 N = 1,852,313.07 E = 1,177,342.65	Prop. Curve 79D83A-2 P.I. STA = 7178+01.36 N = 1,850,638.94 E = 1,177,390.59 Δ = 3° 24' 57.69" (RT) D = 5° 43' 46.48" R = 1,000.00 L = 59.62 E = 0.44 T = 29.82 P.C. STA = 7177+71.54 N = 1,850,668.74 E = 1,177,389.73 P.T. STA = 7178+31.17 N = 1,850,609.13 E = 1,177,389.66	Prop. Curve 83B79C-1 P.I. STA = 8600+34.10 N = 1,850,212.04 E = 1,177,707.28 Δ = 10° 26' 43.92" (RT) D = 5° 43' 46.48" R = 1,000.00 L = 182.31 E = 4.17 T = 91.41 P.C. STA = 8599+42.69 N = 1,850,122.66 E = 1,177,726.42 P.T. STA = 8601+25.00 N = 1,850,303.41 E = 1,177,704.66	Prop. Curve 83B79C-2 P.I. STA = 8619+07.06 N = 1,852,084.35 E = 1,177,653.66 Δ = 8° 11' 54.52" (RT) D = 5° 43' 46.48" R = 1,000.00 L = 143.09 E = 2.56 T = 71.67 P.C. STA = 8618+35.39 N = 1,852,012.71 E = 1,177,655.72 P.T. STA = 8619+78.48 N = 1,852,155.54 E = 1,177,661.85	Prop. Curve NBDRO1 P.I. STA = 2316+88.94 N = 1,853,051.58 E = 1,177,504.84 Δ = 2° 58' 38.60" (LT) D = 0° 29' 58.77" R = 11,467.00 L = 595.89 E = 3.87 T = 298.01 P.C. STA = 2313+90.93 N = 1,852,753.69 E = 1,177,513.37 P.T. STA = 2319+86.82 N = 1,853,348.62 E = 1,177,480.85	Prop. Curve NBDRO2 P.I. STA = 2328+59.71 N = 1,854,218.69 E = 1,177,410.58 Δ = 3° 16' 48.34" (RT) D = 0° 30' 01.44" R = 11,450.00 L = 655.49 E = 4.69 T = 327.84 P.C. STA = 2325+31.88 N = 1,853,891.91 E = 1,177,436.97 P.T. STA = 2331+87.37 N = 1,854,546.43 E = 1,177,402.92	Prop. Curve NBDRO3 P.I. STA = 2398+13.58 N = 1,861,170.38 E = 1,177,231.19 Δ = 44° 36' 17.12" (LT) D = 2° 44' 29.13" R = 2,090.00 L = 1,627.06 E = 168.99 T = 857.27 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	Prop. Curve SBDRO2 P.I. STA = 1316+17.76 N = 1,852,997.25 E = 1,177,445.02 Δ = 2° 58' 38.60" (LT) D = 0° 30' 08.86" R = 11,280.00 L = 592.56 E = 3.85 T = 296.35 P.C. STA = 1313+21.41 N = 1,852,701.02 E = 1,177,453.50 P.T. STA = 1319+13.97 N = 1,853,292.63 E = 1,177,421.16	Prop. Curve SBDRO3 P.I. STA = 1328+44.90 N = 1,854,220.54 E = 1,177,346.22 Δ = 3° 16' 11.04" (RT) D = 0° 30' 28.59" R = 11,280.00 L = 643.72 E = 4.59 T = 321.95 P.C. STA = 1325+22.95 N = 1,853,899.63 E = 1,177,372.14 P.T. STA = 1331+66.67 N = 1,854,542.40 E = 1,177,338.64	Prop. Curve SBDRO4 P.I. STA = 1397+75.78 N = 1,861,149.16 E = 1,177,163.97 Δ = 44° 32' 58.56" (LT) D = 2° 47' 41.70" R = 2,050.00 L = 1,593.95 E = 165.31 T = 839.71 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
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MATCHLINE STA. 1342+00 SB DAN RYAN



TYLIN INTERNATIONAL



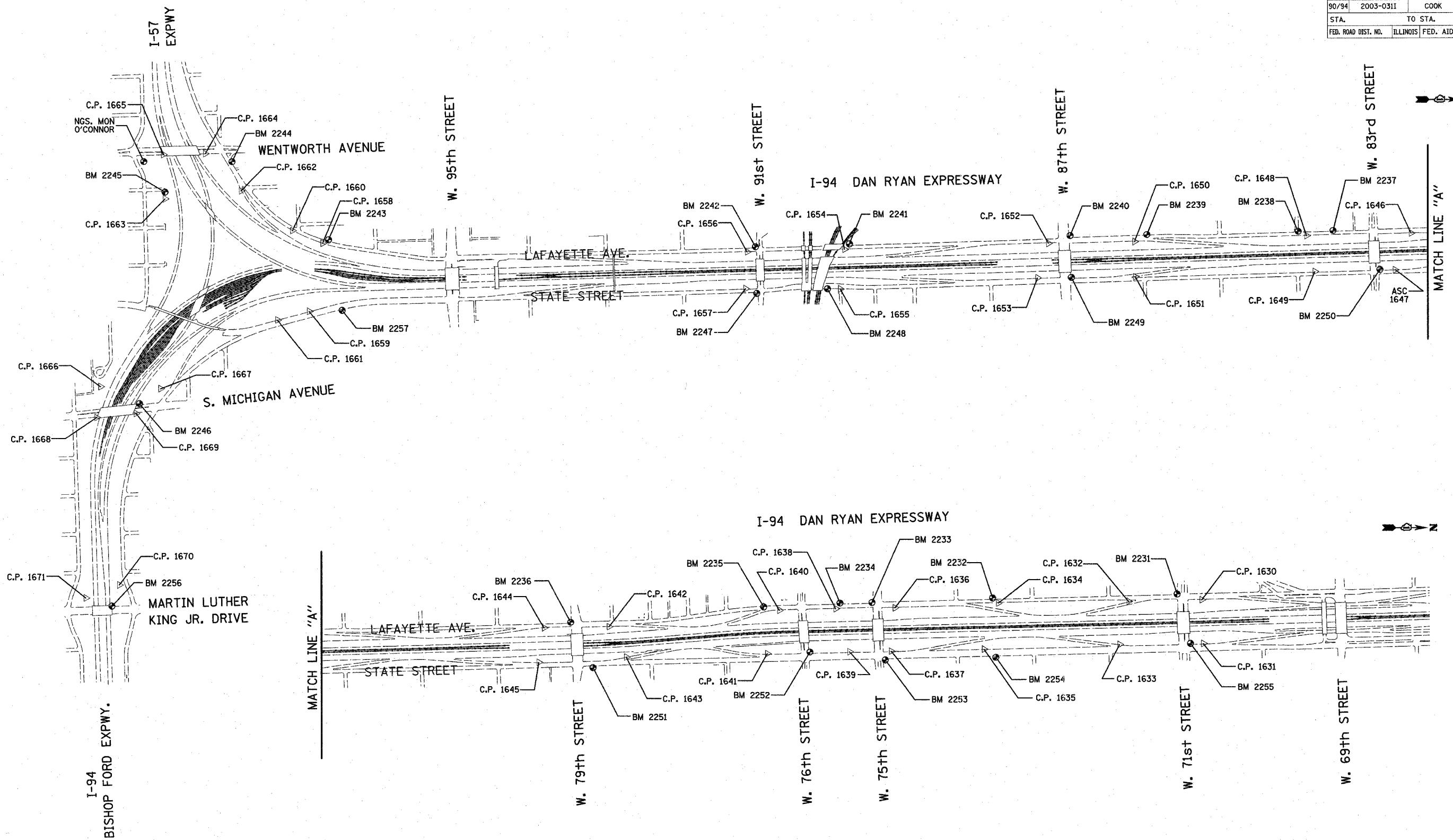
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET to I-57
 ALIGNMENT
 SHEET 3 OF 3
 SCALE: 1"=200'
 DATE: OCTOBER 29, 2004
 DRAWN BY: JPM
 CHECKED BY: DAK

11/23/2004 06:42:31 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



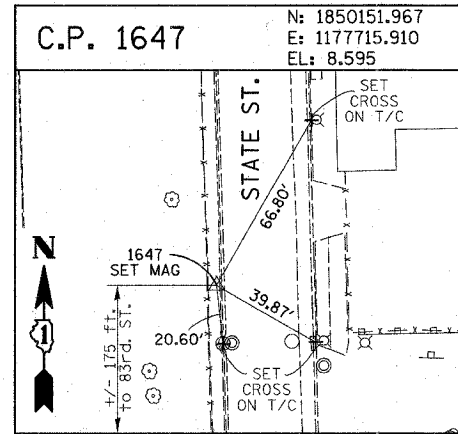
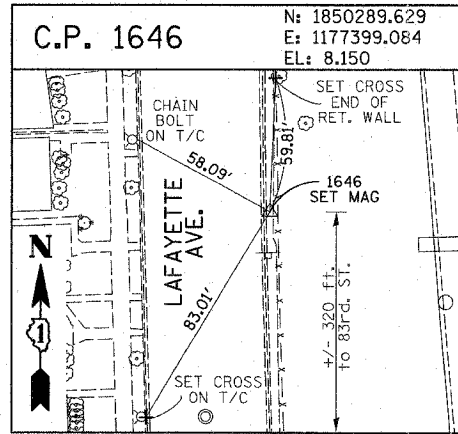
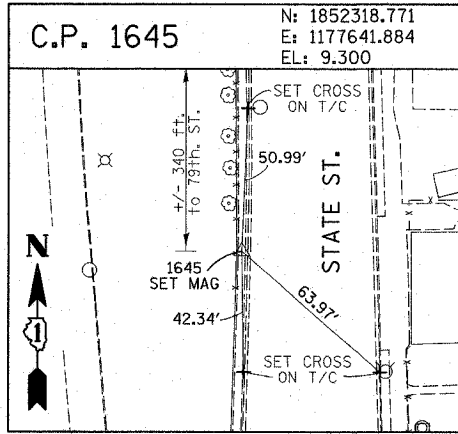
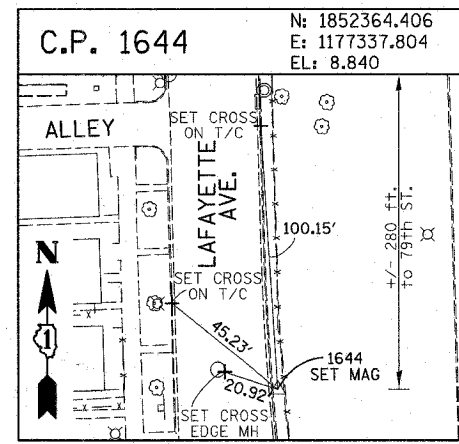
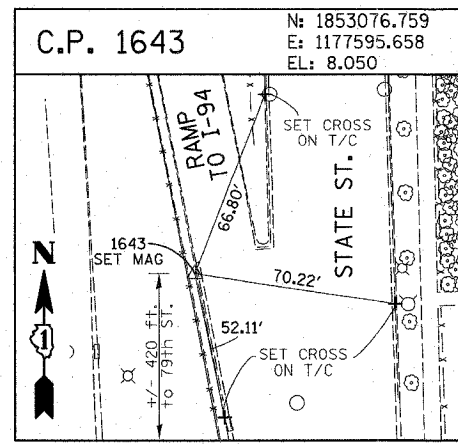
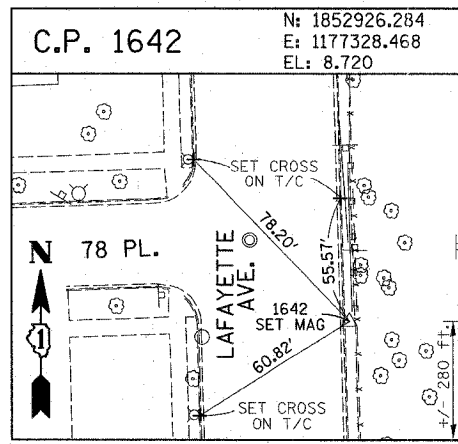
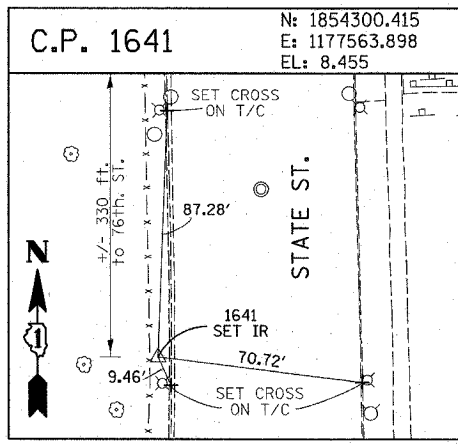
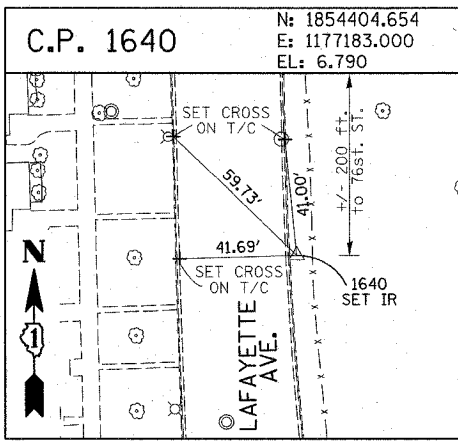
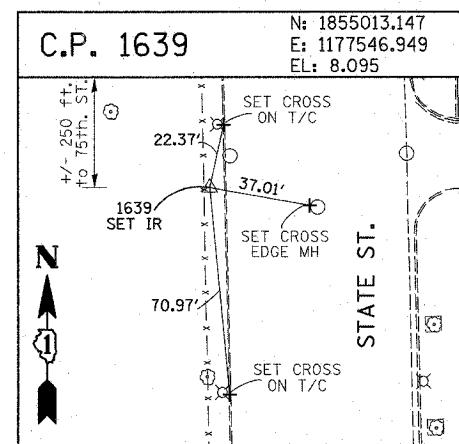
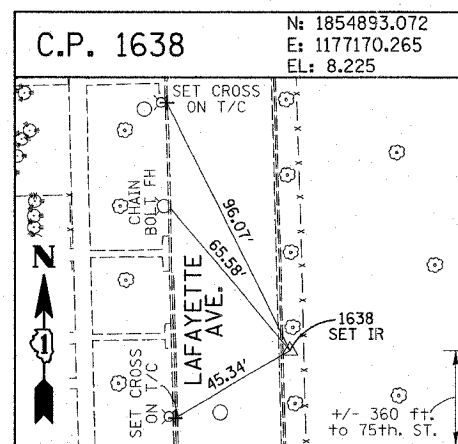
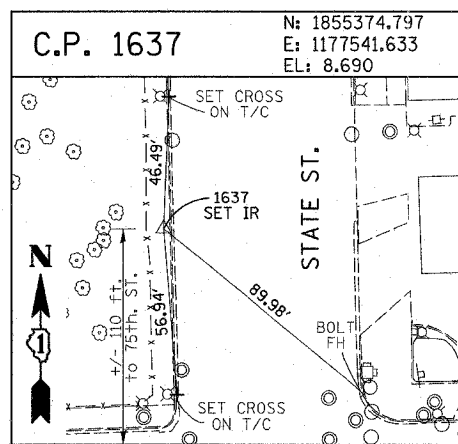
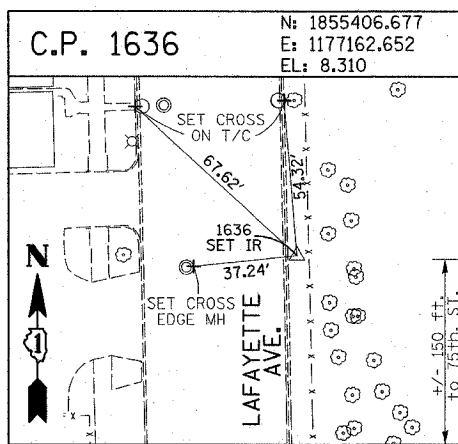
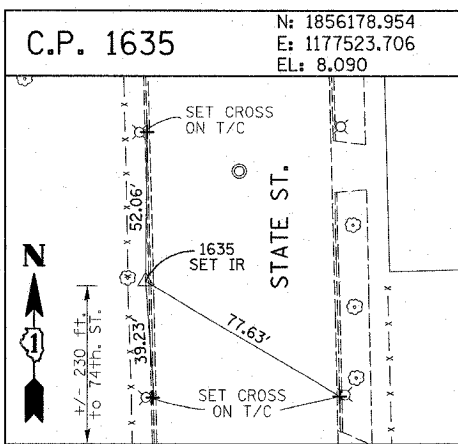
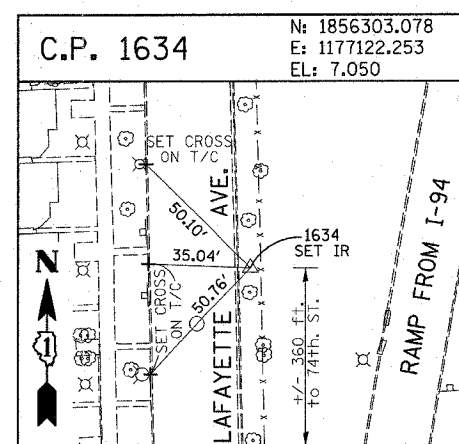
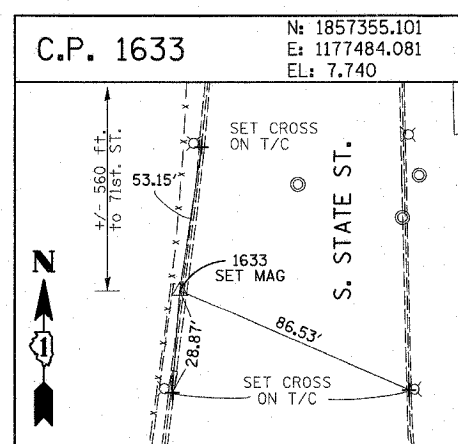
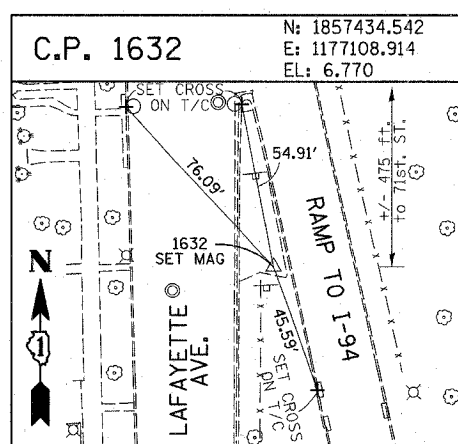
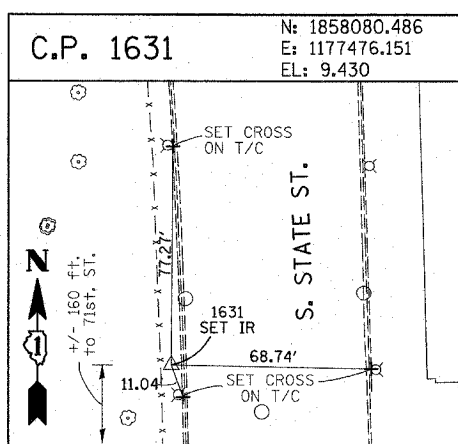
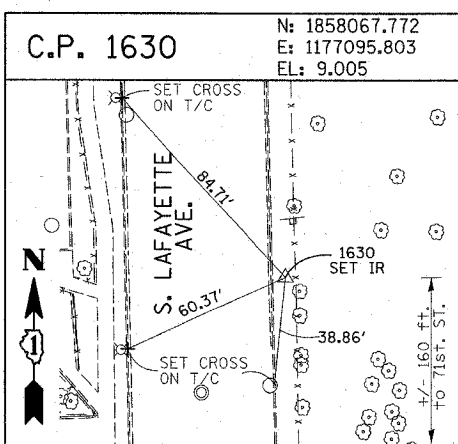
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 SURVEY TIES FOR CONTROL POINTS
 SHEET 1 OF 4

SCALE: 1"=400'
 DATE: OCTOBER 29, 2004
 DRAWN BY: GSP
 CHECKED BY: MMW

10/15/2004 06:55:57 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
62583				



American Surveying Consultants, P.C.
 1175 North State Street, Suite 200, Chicago, IL 60610
 Phone: (312) 467-1100 Fax: (312) 467-1101

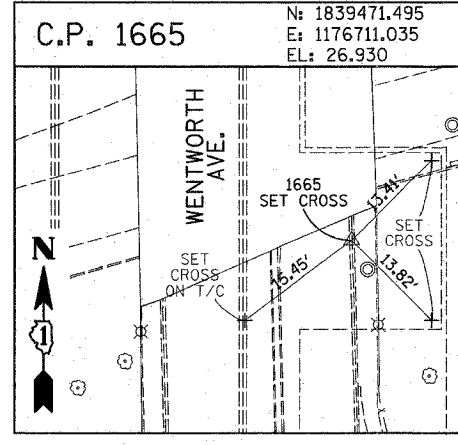
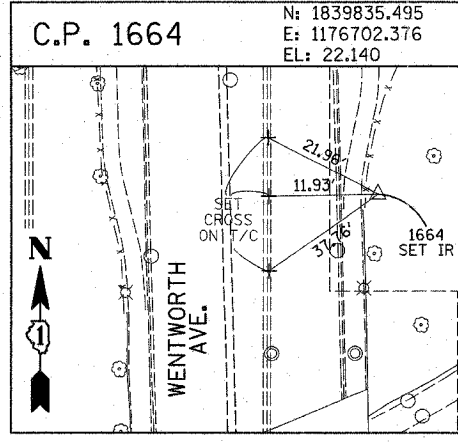
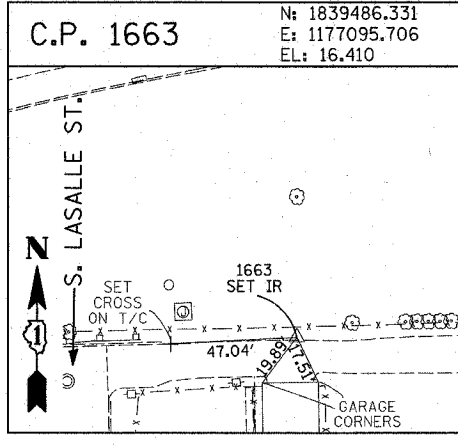
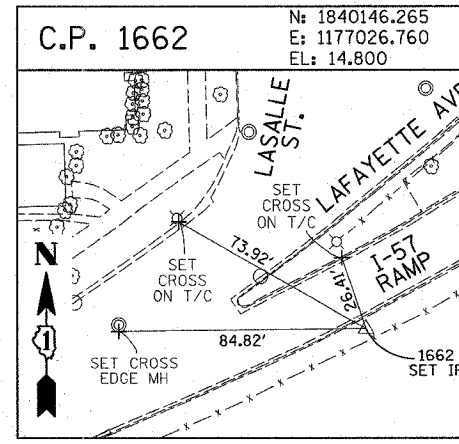
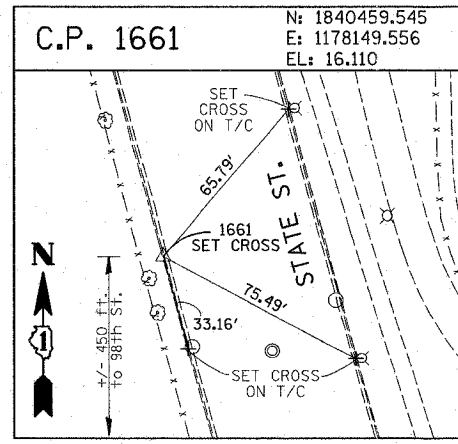
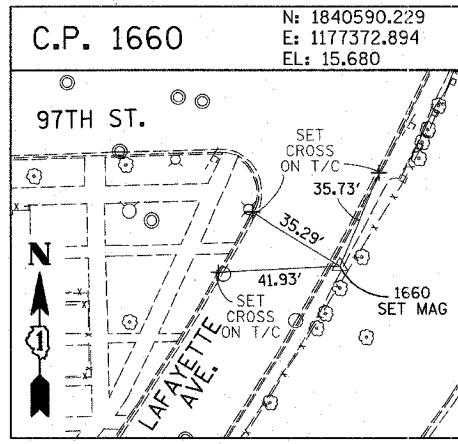
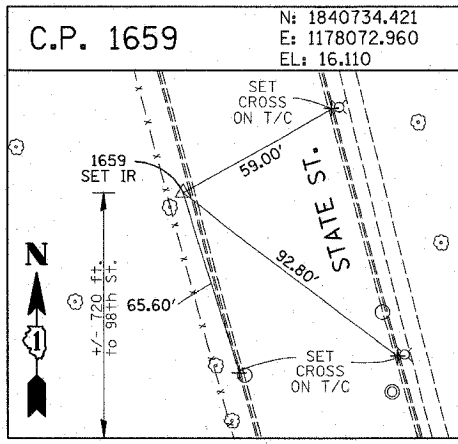
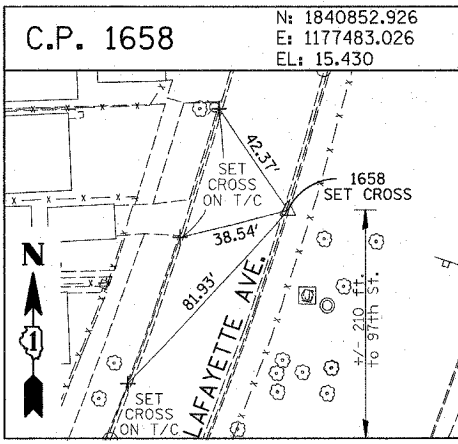
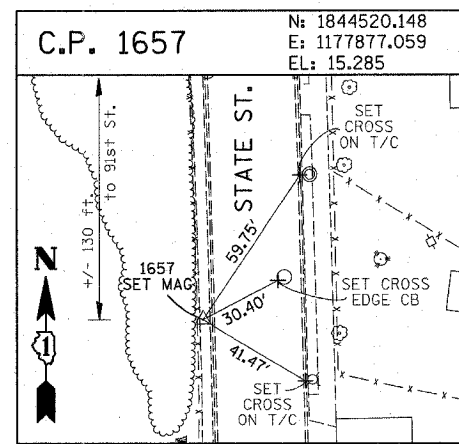
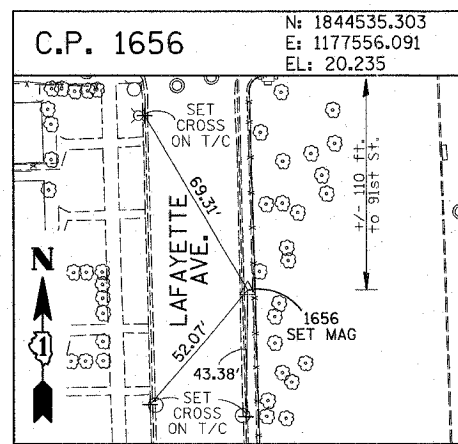
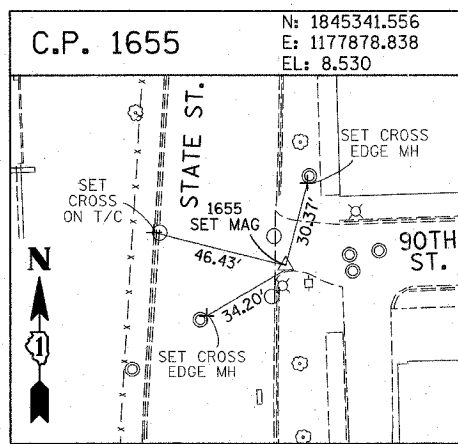
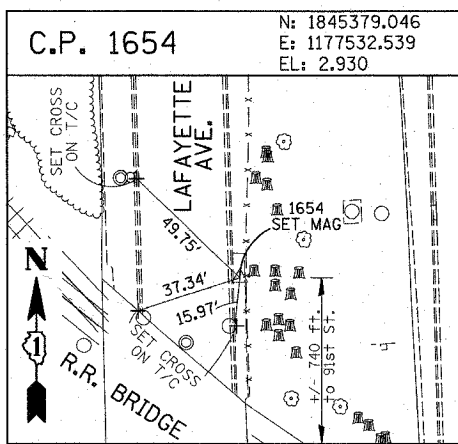
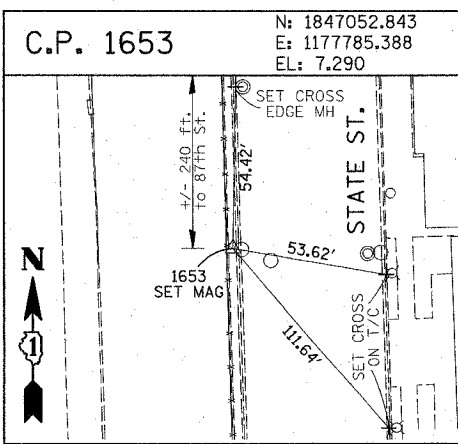
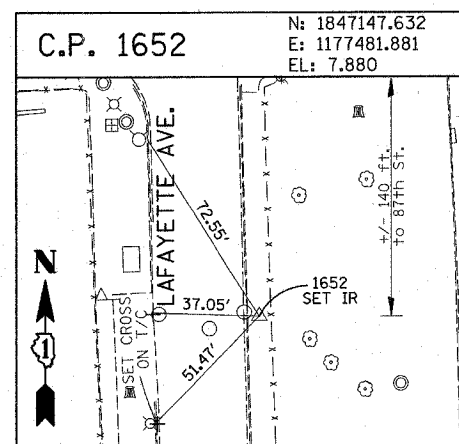
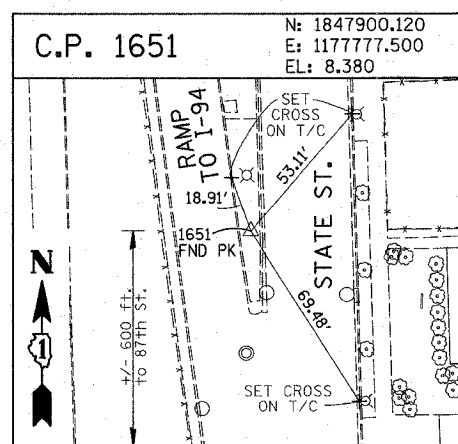
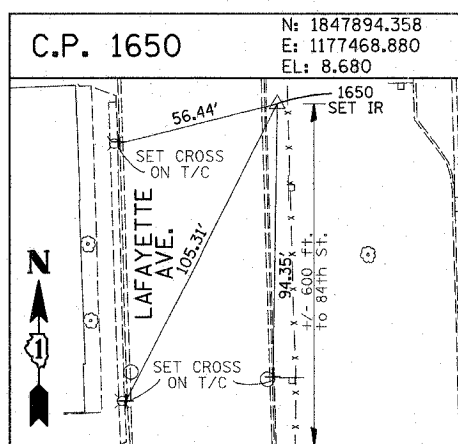
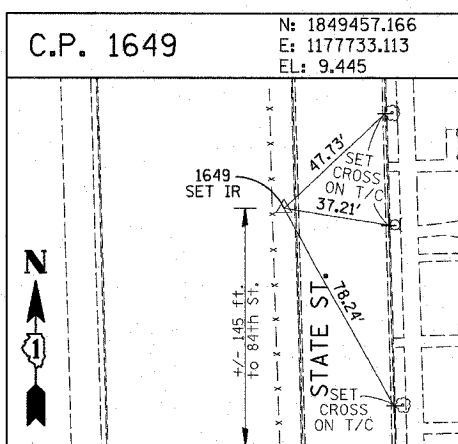
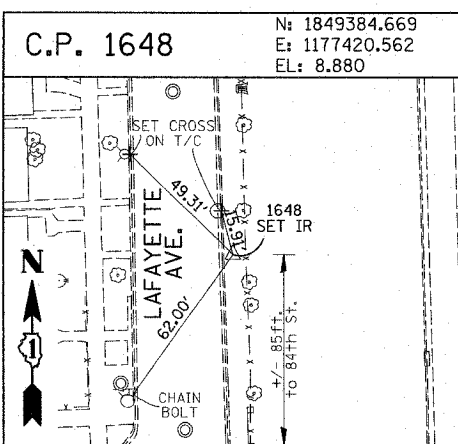
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 SURVEY TIES FOR CONTROL POINTS
 SHEET 2 OF 4
 SCALE: 1"=30'
 DATE: OCTOBER 29, 2004
 DRAWN BY: GSP
 CHECKED BY: MMW

01/15/2004 09:40:00 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



American Surveying Consultants, P.C.
 1177 1st Street, Suite 200, Chicago, IL 60611
 (773) 462-1234

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57

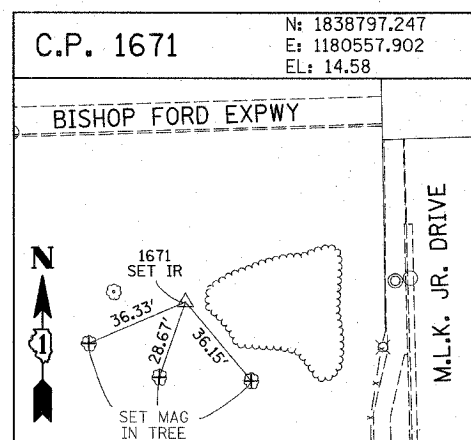
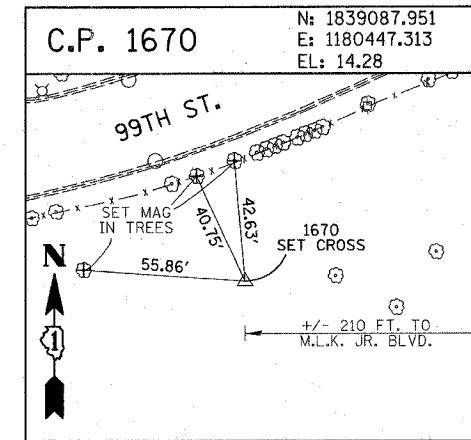
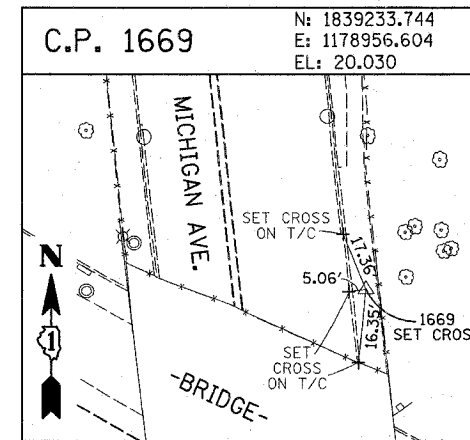
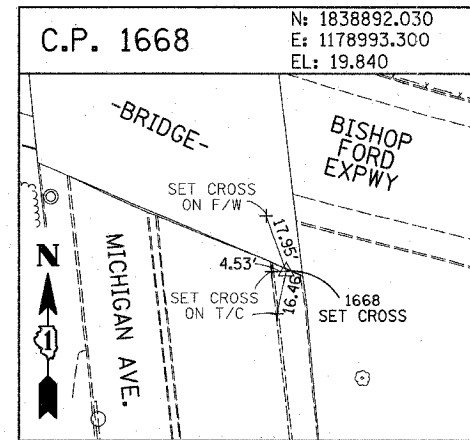
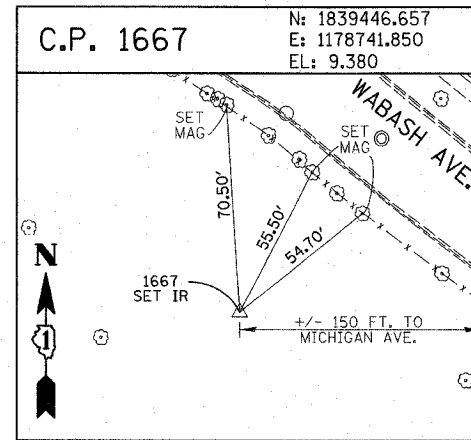
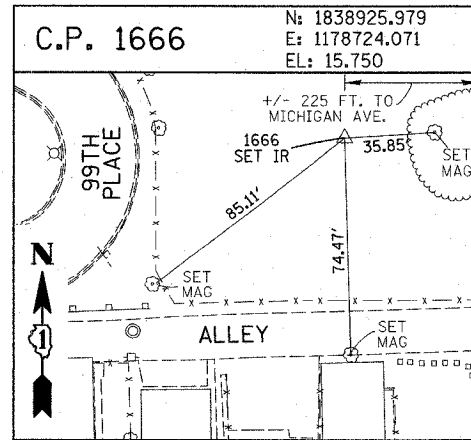
SURVEY TIES FOR CONTROL POINTS
 SHEET 3 OF 4

SCALE: 1"=30'
 DATE: OCTOBER 29, 2004
 DRAWN BY: GSP
 CHECKED BY: MMW

10/15/2004 01:54:06 PM

F.A.I. RTE. 90/94	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62583



PROJECT BENCHMARKS
CITY OF CHICAGO DATUM

- BM 2231 ELEVATION= 10.24 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 71ST STREET AND LAFAYETTE AVENUE.
- BM 2232 ELEVATION= 8.46 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 73RD STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 330 FEET SOUTH OF 73RD STREET.
- BM 2233 ELEVATION= 9.90 FEET
SET CROSS ON NORTHWEST BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 75TH STREET AND LAFAYETTE AVENUE.
- BM 2234 ELEVATION= 9.56 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 75TH STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 320 FEET SOUTH OF 75TH STREET.
- BM 2235 ELEVATION= 7.50 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 76TH STREET ON THE WEST SIDE OF LAFAYETTE. APPROXIMATELY 330 FEET SOUTH OF 76TH STREET.
- BM 2236 ELEVATION= 10.41 FEET
SET CROSS ON WEST BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 79TH STREET AND LAFAYETTE AVENUE.
- BM 2237 ELEVATION= 9.20 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT NORTH OF 83RD STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 350 FEET NORTH OF 83RD STREET.
- BM 2238 ELEVATION= 10.04 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT OF THE NORTHWEST CORNER OF 4TH STREET AND LAFAYETTE AVENUE.
- BM 2239 ELEVATION= 9.59 FEET
SET CROSS ON CHAIN BOLT OF SECOND FIRE HYDRANT NORTH OF 87TH STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 720 FEET NORTH OF 87TH STREET.
- BM 2240 ELEVATION= 9.49 FEET
SET CROSS ON THE NORTHWEST BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 78TH STREET AND LAFAYETTE AVENUE.
- BM 2241 ELEVATION= 3.63 FEET
SET SQUARE CUT ON TOP OF CURB NEXT TO LIGHT POLE ON THE NORTHWEST CORNER OF LAFAYETTE AVENUE AND RAILROAD BRIDGE. APPROXIMATELY 770 FEET NORTH OF 91ST STREET.
- BM 2242 ELEVATION= 22.82 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE SOUTHWEST CORNER OF 91ST STREET AND LAFAYETTE AVENUE.
- BM 2243 ELEVATION= 15.68 FEET
SET SQUARE CUT ON THE TOP OF CURB NEXT TO THIRD LIGHT POLE NORTH OF 97TH STREET ON THE WEST SIDE OF LAFAYETTE AVENUE. APPROXIMATELY 260 FEET NORTH OF 97TH STREET.
- BM 2244 ELEVATION= 15.94 FEET
SET SQUARE CUT ON TOP OF CURB NEXT TO LIGHT POLE ON THE NORTH SIDE OF 98TH STREET. APPROXIMATELY 120 FEET EAST OF WENTWORTH AVENUE.
- BM 2245 ELEVATION= 16.35 FEET
SET SQUARE CUT ON THE EAST END OF CURB AT THE NORTHEAST CORNER OF FIRST ALLEY NORTH OF 99TH STREET. APPROXIMATELY 35 FEET EAST OF LASALLE STREET.
- BM 2246 ELEVATION= 20.00 FEET
SET SQUARE CUT WITH CROSS ON TOP OF ABUTMENT WALL ON THE NORTHWEST CORNER OF STATE STREET BRIDGE OVER THE BISHOP FORD EXPRESSWAY. APPROXIMATELY 20 FEET NORTH OF THE NORTH EDGE OF THE BRIDGE.
- BM 2247 ELEVATION= 14.81 FEET
SET CROSS ON NORTHEAST BOLT OF BASE FOR TRAFFIC SIGNAL AND LIGHT AT THE SOUTHEAST CORNER OF 91ST AND STATE STREET.
- BM 2248 ELEVATION= 9.77 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT NORTH OF RAILROAD BRIDGE ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 110 FEET SOUTH OF 90TH STREET.
- BM 2249 ELEVATION= 9.67 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 87TH AND STATE STREET.
- BM 2250 ELEVATION= 10.03 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 83RD ST. AND STATE STREET.
- BM 2251 ELEVATION= 10.95 FEET
FOUND CROSS ON EAST BOLT OF FIRE HYDRANT ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 135 FEET NORTH OF 79TH STREET.
- BM 2252 ELEVATION= 10.02 FEET
SET CROSS ON WEST BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF STATE STREET AND 76TH STREET.
- BM 2253 ELEVATION= 9.07 FEET
SET CROSS ON EAST BOLT OF FIRE HYDRANT ON THE NORTHEAST CORNER OF 75TH STREET AND STATE STREET.
- BM 2254 ELEVATION= 9.17 FEET
SET CROSS ON CHAIN BOLT OF FIRST FIRE HYDRANT SOUTH OF 73RD STREET ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 330 FEET SOUTH OF 73RD STREET.
- BM 2255 ELEVATION= 11.25 FEET
SET CROSS ON CHAIN BOLT OF FIRE HYDRANT ON THE NORTHWEST CORNER OF 71ST STREET AND STATE STREET.
- BM 2256 ELEVATION= 16.36 FEET
SET SQUARE CUT ON TOP OF ABUTMENT WALL ON THE NORTHWEST CORNER OF MARTIN LUTHER KING DRIVE BRIDGE OVER THE BISHOP FORD EXPRESSWAY. APPROXIMATELY 1 FOOT NORTH OF THE NORTH END OF THE BRIDGE.
- BM 2257 ELEVATION= 18.25 FEET
SET CROSS ON NORTHEAST BOLT OF LIGHT POLE BASE ON THE EAST SIDE OF STATE STREET. APPROXIMATELY 970 FEET SOUTH OF 95TH STREET.
- BM 2258 ELEVATION= 10.53 FEET
SET CROSS ON NORTHWEST BOLT OF LIGHT BASE ON NORTHWEST CORNER OF 71ST STREET AND LAFAYETTE AVENUE.

American Surveying Consultants, P.C.
SURVEYING-ENGINEERING-CONSULTANTS-SCIENTISTS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET to I-57

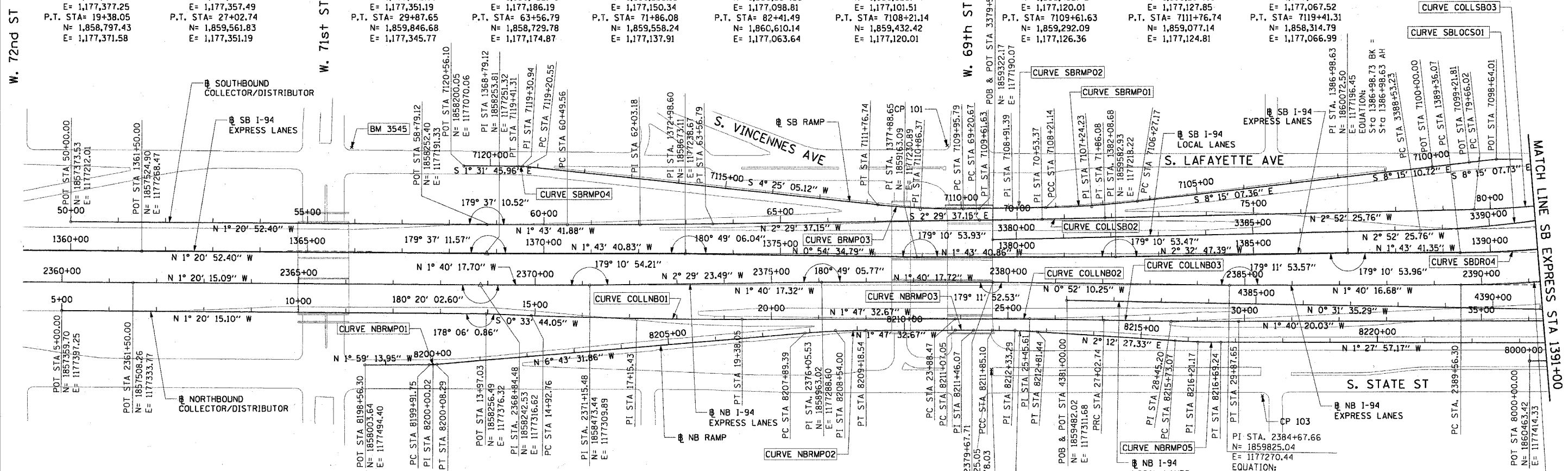
SURVEY TIES FOR CONTROL POINTS
SHEET 4 OF 4

SCALE: 1"=30'
DATE: OCTOBER 29, 2004
DRAWN BY: GSP
CHECKED BY: MMW

10/15/2004 01:54:09 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	19
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

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= 1,177,186.19 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= 20,000.00' T= 132.70' L= 265.40 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= 275.46 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= 193.98 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= 1,500.00' 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	BENCH MARK NO. 3535 ELEV. 19.31
DESCRIPTION: CROSS CUT ON NORTHWESTERLY BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 45TH ST AND WENTWORTH AVE	DESCRIPTION: FOUND CROSS CUT ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 59TH ST AND WENTWORTH AVE
BENCH MARK NO. 3530 ELEV. 18.18	BENCH MARK NO. 3536 ELEV. 18.37
DESCRIPTION: CROSS CUT ON SOUTHEAST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 51ST ST AND WELLS ST	DESCRIPTION: CROSS CUT ON SOUTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF GARFIELD BLVD AND WENTWORTH AVE
BENCH MARK NO. 3531 ELEV. 17.55	BENCH MARK NO. 3537 ELEV. 17.71
DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF GARFIELD BLVD AND WELLS ST	DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 51ST ST AND WENTWORTH AVE
BENCH MARK NO. 3532 ELEV. 18.84	BENCH MARK NO. 3538 ELEV. 17.31
DESCRIPTION: HORIZONTAL BOLT ON CTA "EL" STRUCTURE, EAST SIDE OF WELLS ST ABOUT 50 FEET NORTH OF 59TH PL.	DESCRIPTION: CROSS CUT ON EASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 47TH ST AND LASALLE ST
BENCH MARK NO. 3533 ELEV. 19.71	BENCH MARK NO. 3544 ELEV. 19.38
DESCRIPTION: BRASS DISK (CTA MONUMENT) AT THE SOUTHWEST CORNER OF 63RD ST AND HARVARD ST	DESCRIPTION: CROSS CUT ON WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 67TH ST AND LAFAYETTE AVE
	BENCH MARK NO. 3545 ELEV. 10.53
	DESCRIPTION: CROSS CUT ON NORTHWEST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 71ST ST AND LAFAYETTE AVE

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= 78.05 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= 8211+85.10 N= 1,859,326.41 E= 1,177,379.26 P.T. STA= 8212+81.44 N= 1,859,422.73 E= 1,177,379.88
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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	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' P.C. STA= 3388+53.23 N= 1,860,224.26 E= 1,177,144.78 P.T. STA= 3394+14.48 N= 1,860,774.05 E= 1,177,040.92
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NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360

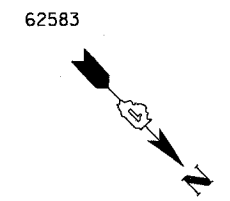
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
ALIGNMENT PLAN
SCALE: 1"=100'
DATE: October 29, 2004
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



10/16/2004 03:51:36 PM

F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	20
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 COLLNB04
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 COLLNB03
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 COLLNB04
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 COLLNB05
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 NBLOC01
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

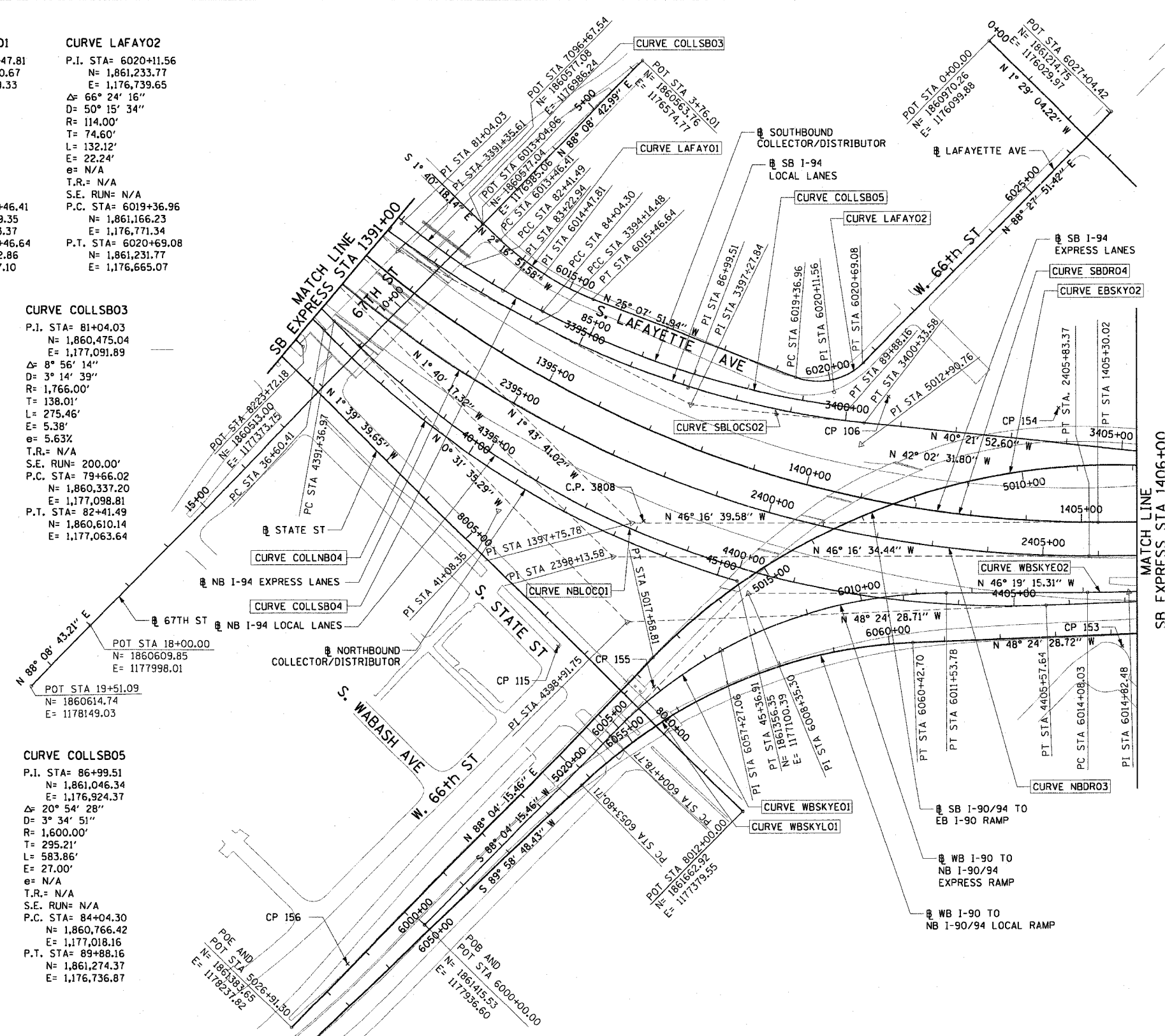
CURVE WBSKYEO1
P.I. STA= 6008+35.30
N= 1,861,387.41
E= 1,177,101.77
Δ= 45° 36' 29"
D= 6° 45' 24"
R= 848.00'
T= 356.54'
L= 675.02'
E= 71.90'
e= 6.0%
T.R.= N/A
S.E. RUN= 96' (179.23')
P.C. STA= 6004+78.77
N= 1,861,399.41
E= 1,177,458.10
P.T. STA= 6011+53.78
N= 1,861,633.64
E= 1,176,843.91

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 SBLOC02
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 SBDR04
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)
31st STREET TO I-57
ALIGNMENT PLAN

SCALE: 1"=100'
DATE: October 29, 2004
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



10/15/2004 03:55:39 PM

F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94 2003-0311	COOK	976	21
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

62583

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 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 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

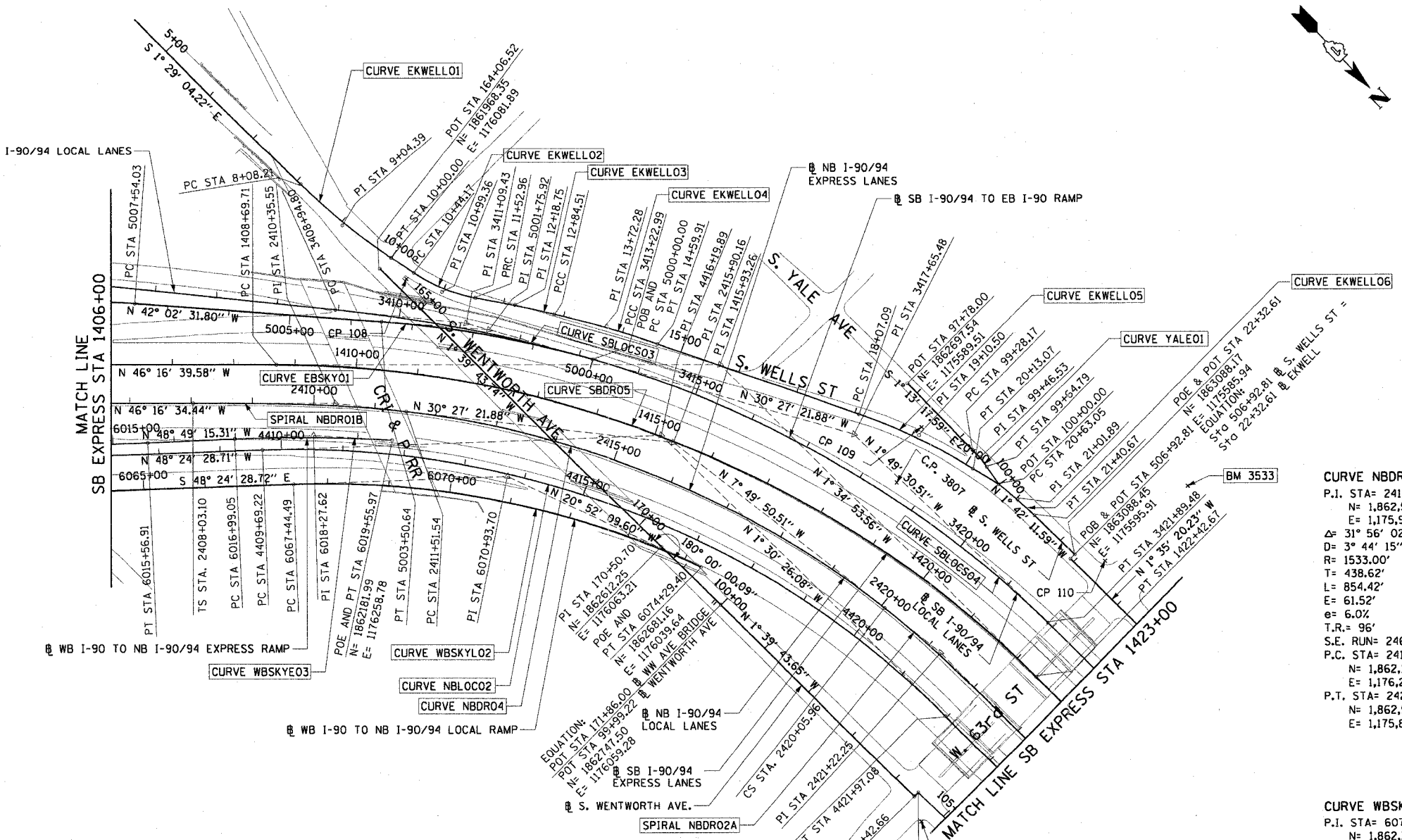
SPIRAL NBDRO1B
P.I. STA= 2410+35.55
N= 1,862,075.46
E= 1,176,284.87
Δ= 6° 30' 41"
LS= 348.44'
YS= 13.19'
XS= 347.99'
P= 3.30'
K= 174.15'
LT= 232.45'
ST= 116.29'
LC= 348.24'
T.S. STA= 2408+03.10
N= 1,861,914.79
E= 1,176,452.86
S.C. STA= 2411+51.54
N= 1,862,164.85
E= 1,176,210.49

CURVE 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 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 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

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.= 48' (96')
S.E. RUN= 135'
P.C. STA= 5000+00.00
N= 1,862,314.67
E= 1,175,932.87
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= 1,176,041.66
Δ= 9° 54' 30"
D= 2° 18' 51"
R= 2476.00'
T= 214.63'
L= 428.19'
E= 9.29'
e= 5.0%
T.R.= 41'
S.E. RUN= 205'
P.C. STA= 3408+94.80
N= 1,861,964.32
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= 723.55'
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 NBLOCO2
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

CURVE WBSKYLO2
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

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 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

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

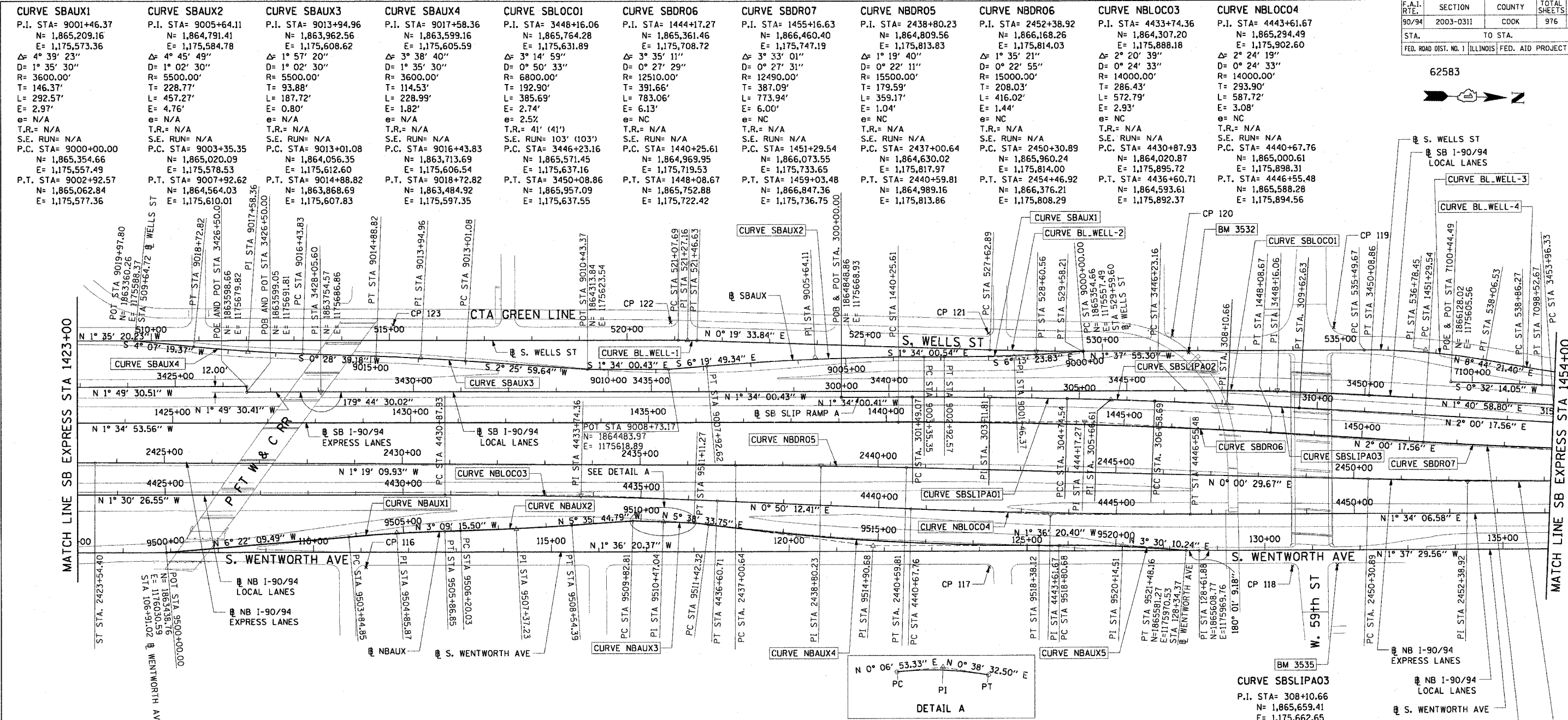
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
ALIGNMENT PLAN
SCALE: 1"=100'
DATE: October 29, 2004
DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



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03/15/2004

F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94 2003-0311	COOK	976	22
STA. TO STA.		FED. AID PROJECT	
62583			



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= 1.82' 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= 1,175,597.35	CURVE SBLOC01 P.I. STA= 3448+16.06 N= 1,865,361.46 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= NC 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 SBDRO6 P.I. STA= 1444+17.27 N= 1,865,361.46 E= 1,175,708.72 Δ= 3° 33' 11" D= 0° 27' 29" R= 12510.00' T= 391.66' L= 783.06' E= 2.74' 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 SBDRO7 P.I. STA= 1455+16.63 N= 1,866,460.40 E= 1,175,747.19 Δ= 3° 33' 11" D= 0° 27' 31" R= 12490.00' T= 387.09' L= 773.94' E= 2.74' 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 NBDR05 P.I. STA= 2438+80.23 N= 1,864,809.56 E= 1,175,813.83 Δ= 1° 19' 01" D= 0° 22' 11" R= 15500.00' T= 179.59' L= 359.17' E= 6.13' e= NC T.R.= N/A S.E. RUN= N/A P.C. STA= 2437+00.64 N= 1,864,630.02 E= 1,175,817.97 P.T. STA= 2440+59.81 N= 1,864,989.16 E= 1,175,813.86	CURVE NBDR06 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= 14000.00' T= 208.03' L= 416.02' E= 1.04' 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 NBLOC03 P.I. STA= 4433+74.36 N= 1,864,307.20 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 NBLOC04 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
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CTE ENGINEERS
 CONSIDER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
 303 EAST WACKER DRIVE, SUITE 600
 CHICAGO, ILLINOIS 60601-5202, PHONE: (312) 938-0300

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

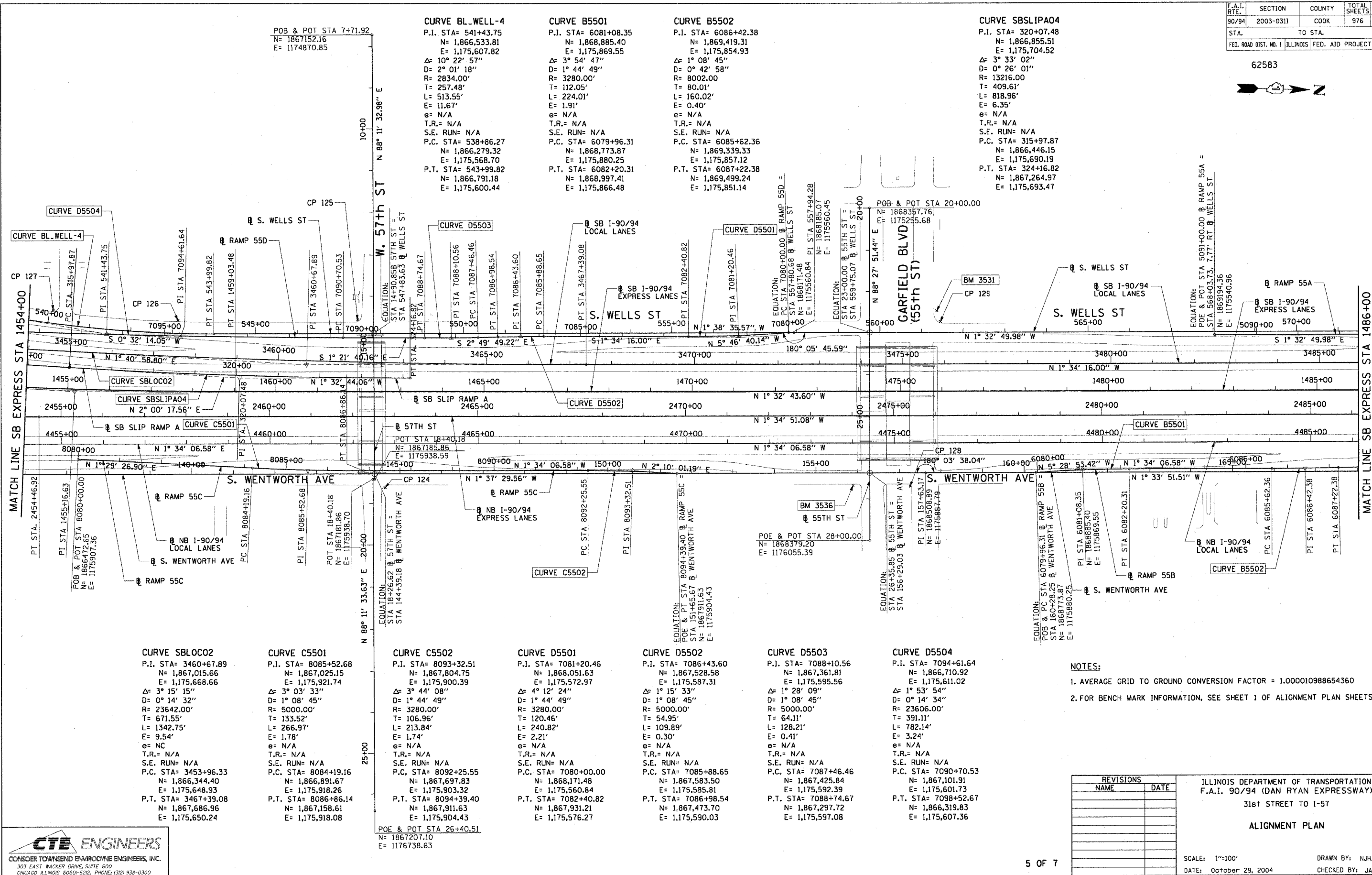
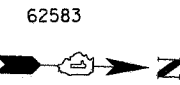
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ALIGNMENT PLAN

SCALE: 1"=100'
 DATE: October 29, 2004
 DRAWN BY: NJH/AMM
 CHECKED BY: JAL/MS

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	23
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



CURVE SBLOCO2
 P.I. STA= 3460+67.89
 N= 1,867,015.66
 E= 1,175,668.66
 Δ = 3° 15' 15"
 D= 0° 14' 32"
 R= 23642.00'
 T= 671.55'
 L= 1342.75'
 E= 9.54'
 e= NC
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 3453+96.33
 N= 1,866,344.40
 E= 1,175,648.93
 P.T. STA= 3467+39.08
 N= 1,867,686.96
 E= 1,175,650.24

CURVE C5501
 P.I. STA= 8085+52.68
 N= 1,867,025.15
 E= 1,175,921.74
 Δ = 3° 03' 33"
 D= 1° 08' 45"
 R= 5000.00'
 T= 133.52'
 L= 266.97'
 E= 1.78'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 8084+19.16
 N= 1,866,891.67
 E= 1,175,918.26
 P.T. STA= 8086+86.14
 N= 1,867,158.61
 E= 1,175,918.08

CURVE C5502
 P.I. STA= 8093+32.51
 N= 1,867,804.75
 E= 1,175,900.39
 Δ = 3° 44' 08"
 D= 1° 44' 49"
 R= 3280.00'
 T= 106.96'
 L= 213.84'
 E= 1.74'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 8092+25.55
 N= 1,867,697.83
 E= 1,175,903.32
 P.T. STA= 8094+39.40
 N= 1,867,911.63
 E= 1,175,904.43

CURVE D5501
 P.I. STA= 7081+20.46
 N= 1,868,051.63
 E= 1,175,572.97
 Δ = 4° 12' 24"
 D= 1° 44' 49"
 R= 3280.00'
 T= 120.46'
 L= 240.82'
 E= 2.21'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7080+00.00
 N= 1,868,171.48
 E= 1,175,560.84
 P.T. STA= 7082+40.82
 N= 1,867,931.21
 E= 1,175,576.27

CURVE D5502
 P.I. STA= 7086+43.60
 N= 1,867,528.58
 E= 1,175,587.31
 Δ = 1° 15' 33"
 D= 1° 08' 45"
 R= 5000.00'
 T= 54.95'
 L= 109.89'
 E= 0.30'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7085+88.65
 N= 1,867,583.50
 E= 1,175,585.81
 P.T. STA= 7088+74.67
 N= 1,867,473.70
 E= 1,175,590.03

CURVE D5503
 P.I. STA= 7088+10.56
 N= 1,867,361.81
 E= 1,175,595.56
 Δ = 1° 28' 09"
 D= 1° 08' 45"
 R= 5000.00'
 T= 64.11'
 L= 128.21'
 E= 0.41'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7087+46.46
 N= 1,867,425.84
 E= 1,175,592.39
 P.T. STA= 7088+74.67
 N= 1,867,297.72
 E= 1,175,597.08

CURVE D5504
 P.I. STA= 7094+61.64
 N= 1,866,710.92
 E= 1,175,611.02
 Δ = 1° 53' 54"
 D= 0° 14' 34"
 R= 23606.00'
 T= 391.11'
 L= 782.14'
 E= 3.24'
 e= N/A
 T.R.= N/A
 S.E. RUN= N/A
 P.C. STA= 7090+70.53
 N= 1,867,101.91
 E= 1,175,601.73
 P.T. STA= 7098+52.67
 N= 1,866,319.83
 E= 1,175,607.36

- 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)
 31st STREET TO I-57
ALIGNMENT PLAN

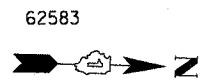
SCALE: 1"=100'
 DATE: October 29, 2004

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

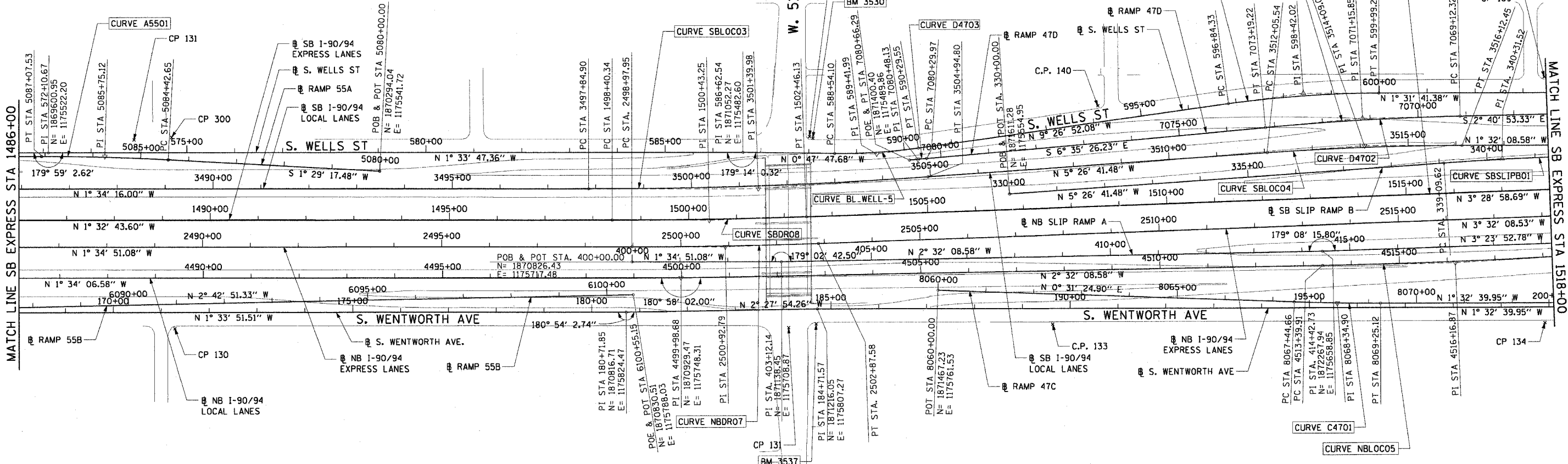


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F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	COOK	976	24
STA. TO STA.		FED. AID PROJECT	



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= 1,871,418.40 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 SB SLIPB01 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.

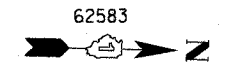
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
ALIGNMENT PLAN
 SCALE: 1"=100'
 DATE: October 29, 2004
 DRAWN BY: NJH/AMM
 CHECKED BY: JAL/MS

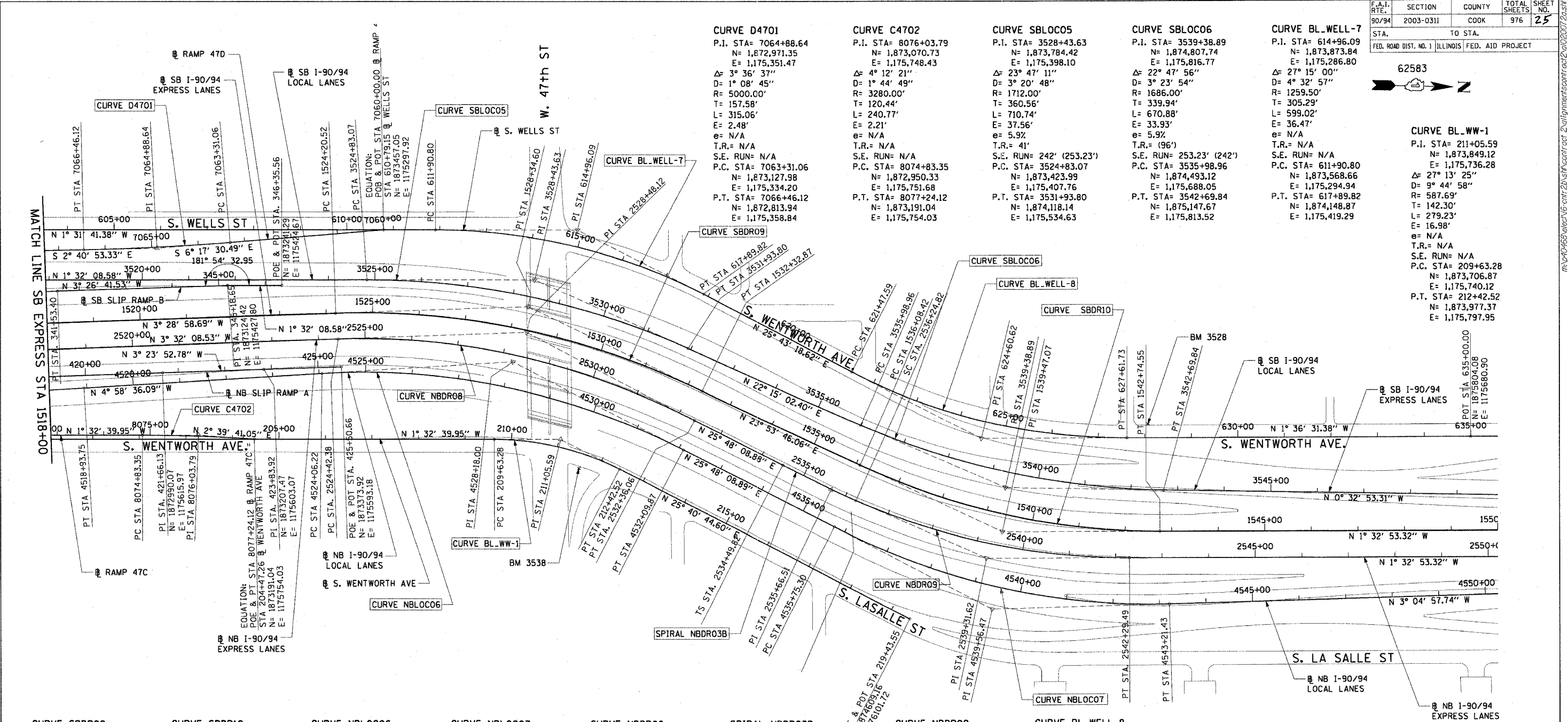


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	25
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



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' 13"
 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 NBDRO8
 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') 246'
 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 NBDRO3B
 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 NBDRO9
 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:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - 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)
 31st STREET TO I-57

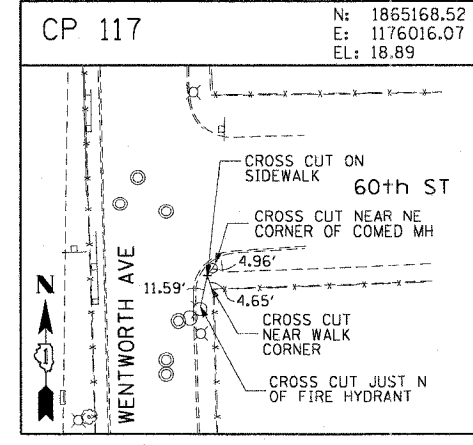
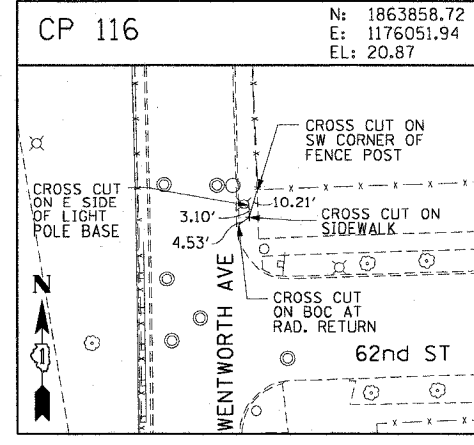
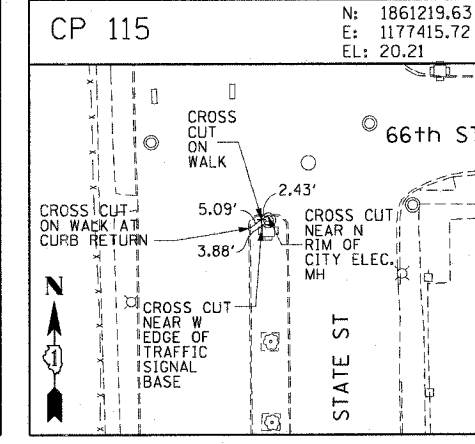
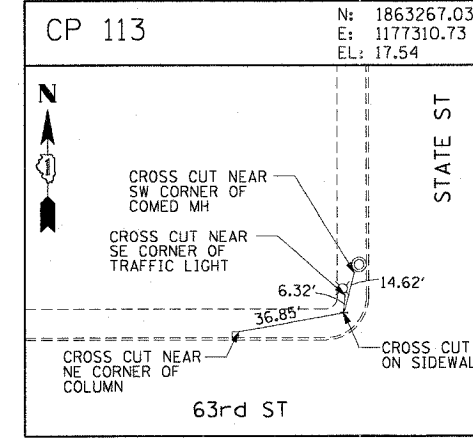
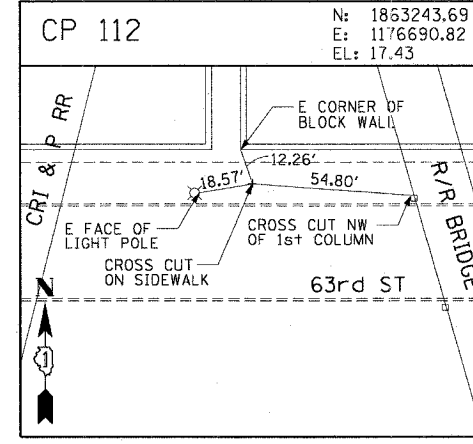
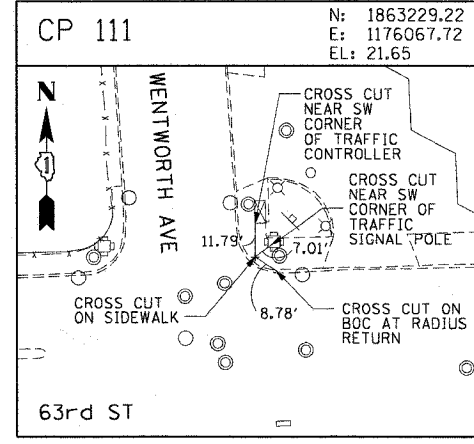
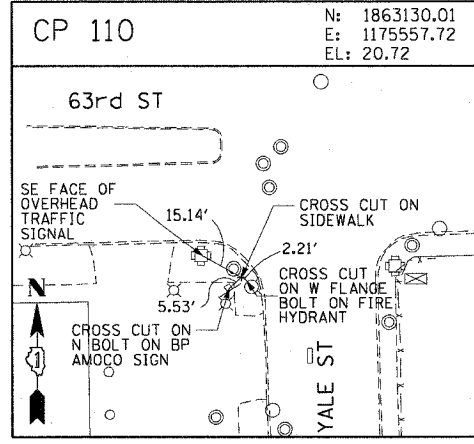
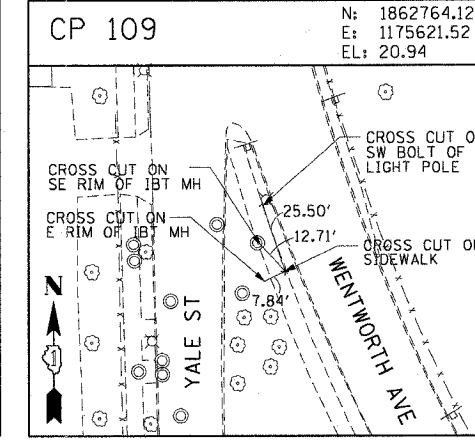
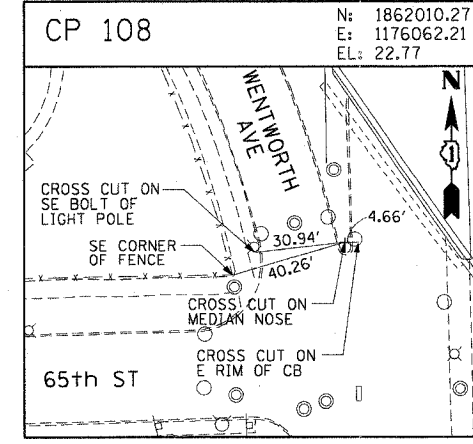
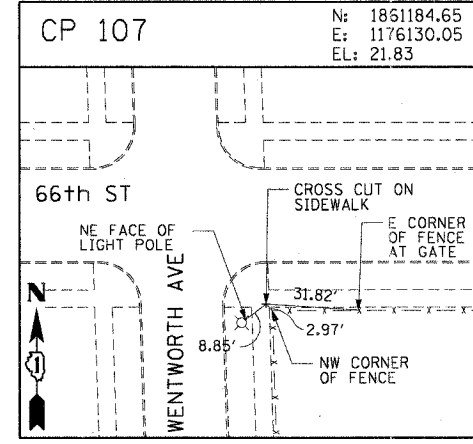
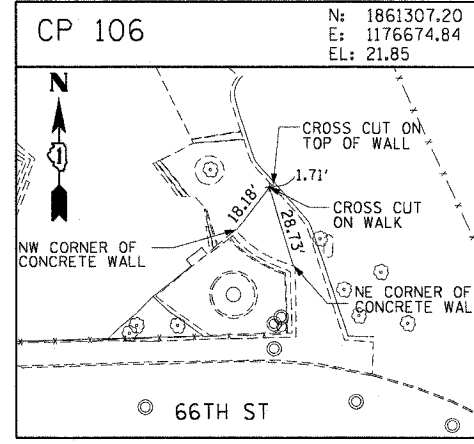
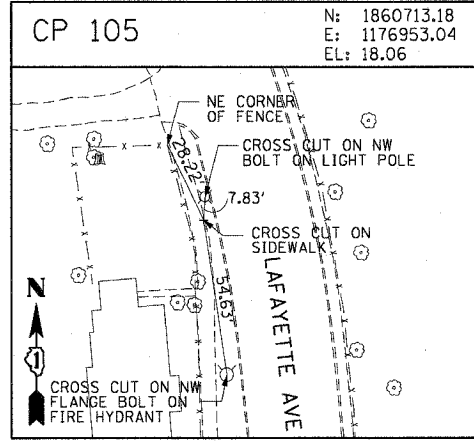
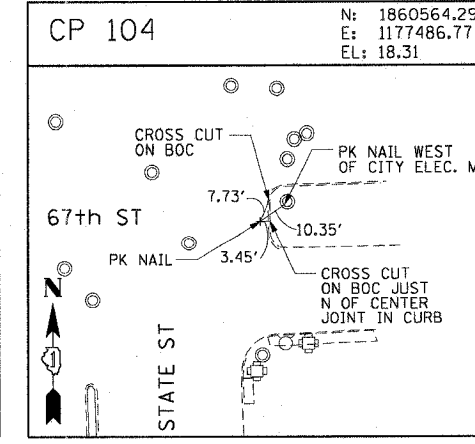
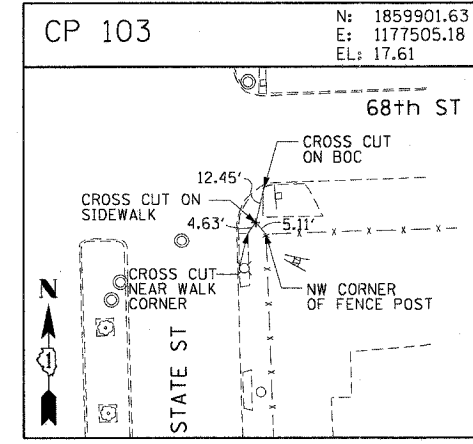
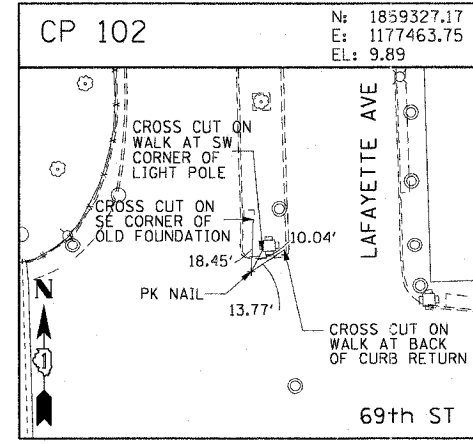
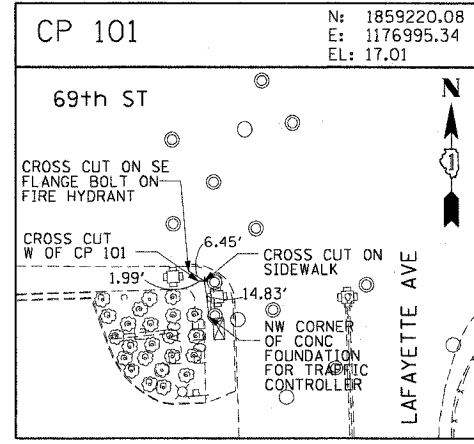
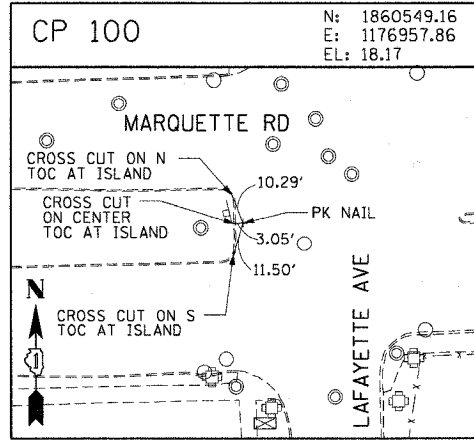
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 CHECKED BY: JAL/MS



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F.A.I. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	26
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62583



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SURVEY TIES AND CONTROL POINTS

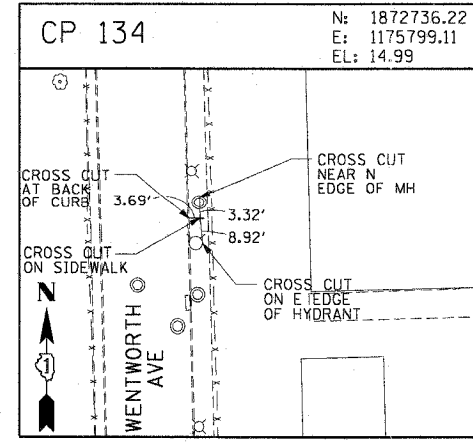
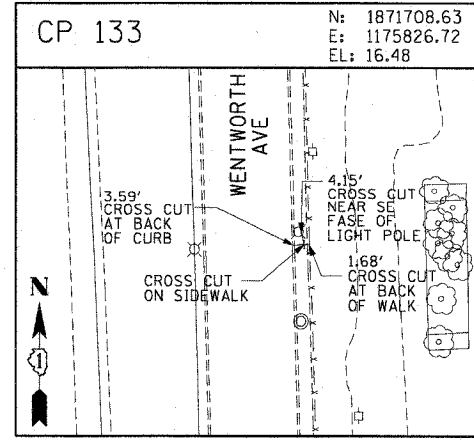
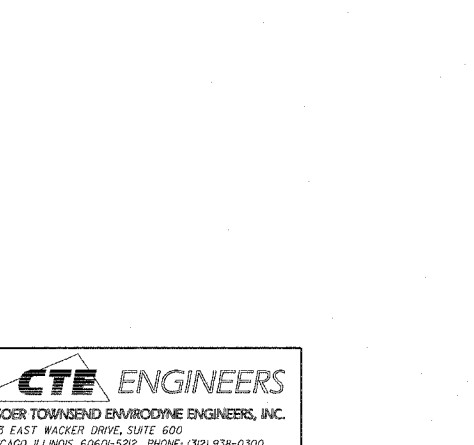
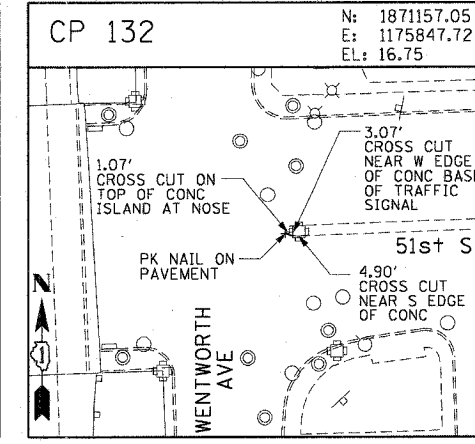
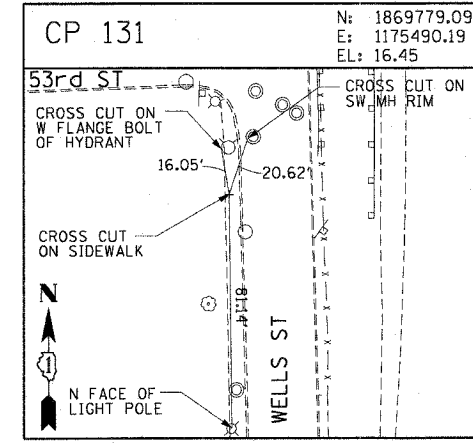
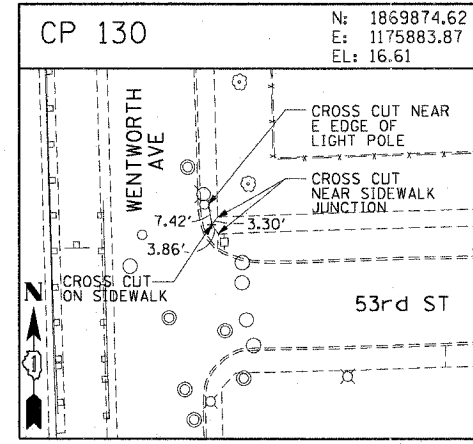
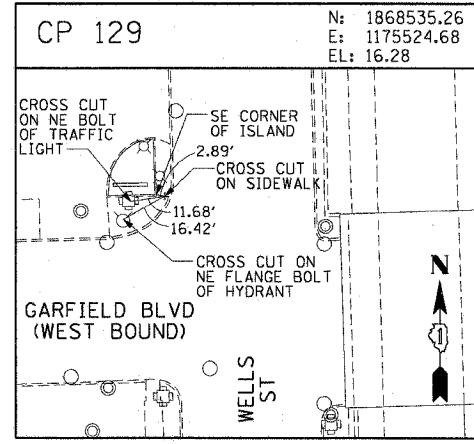
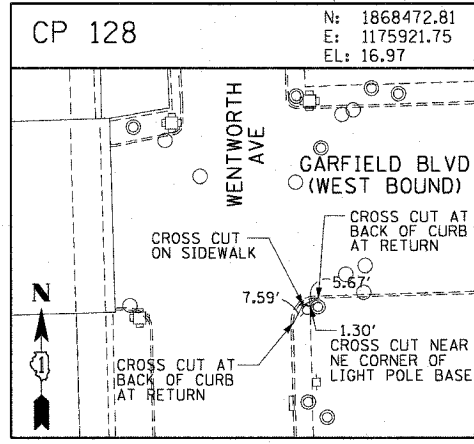
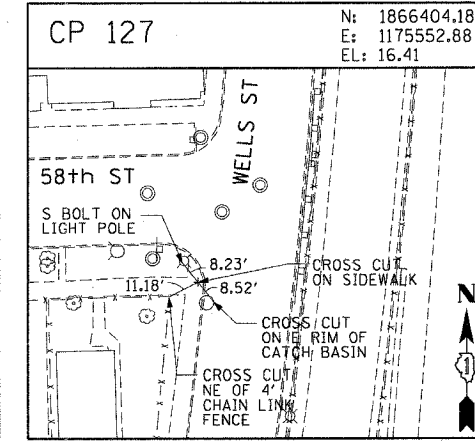
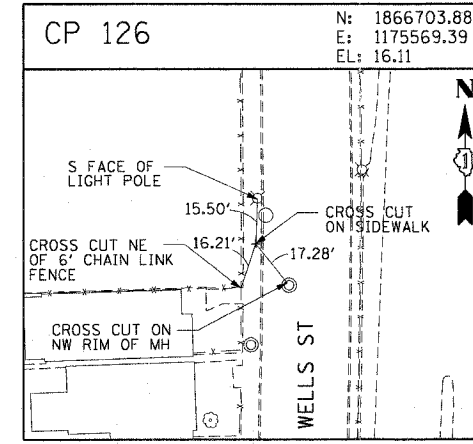
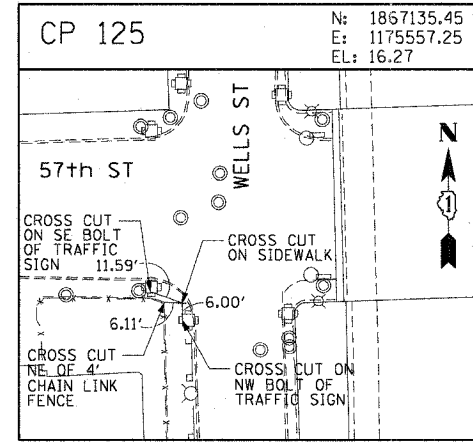
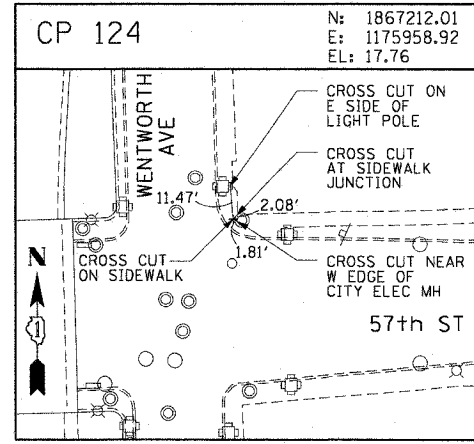
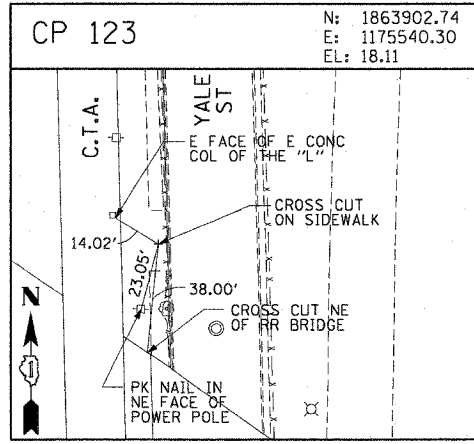
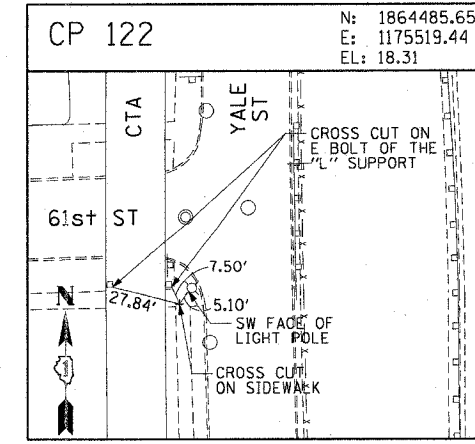
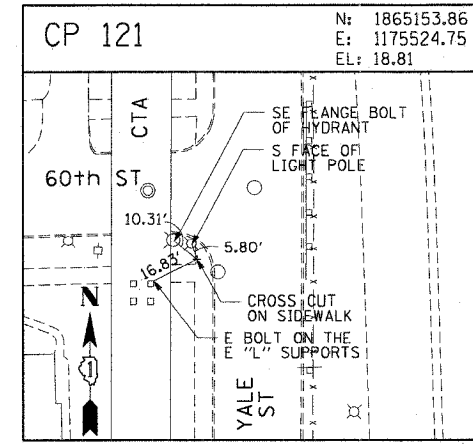
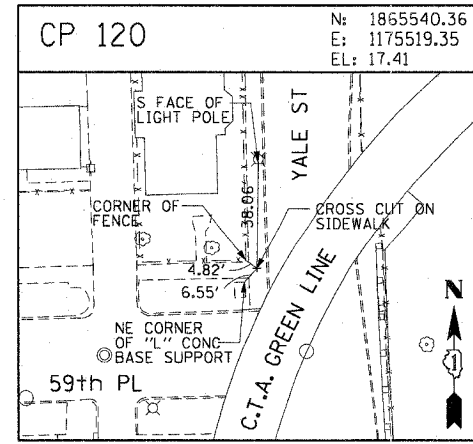
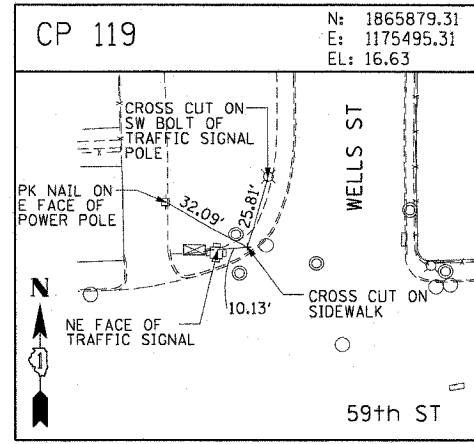
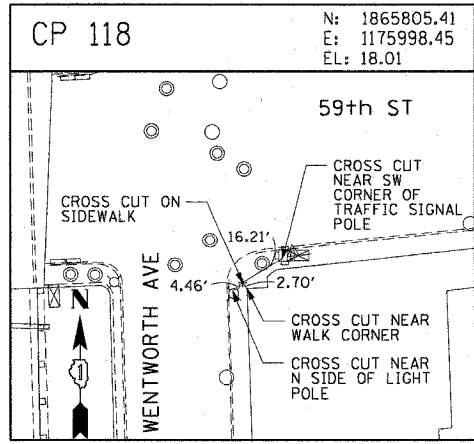
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DATE: October 29, 2004

DRAWN BY: MRK
CHECKED BY: JAL

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F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	27
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED. AID PROJECT	

62583



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'
DATE: October 29, 2004

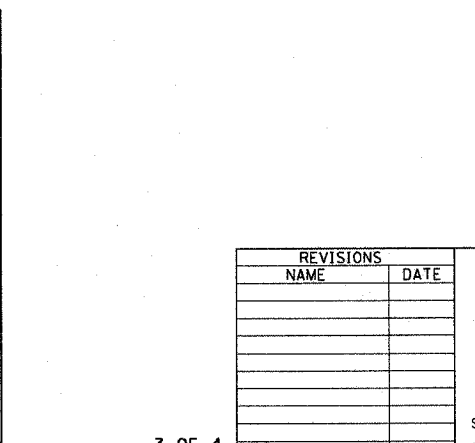
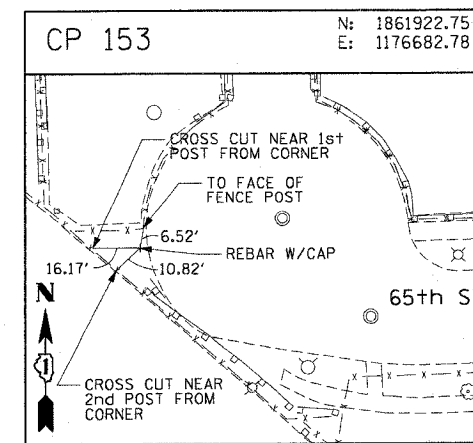
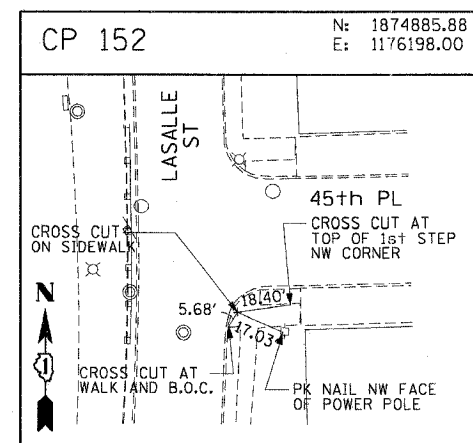
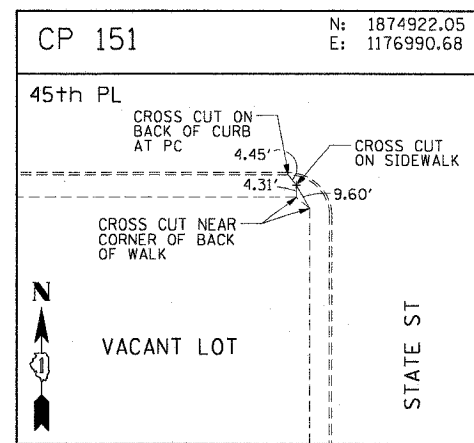
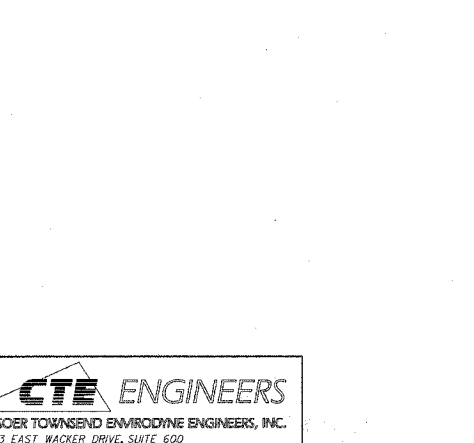
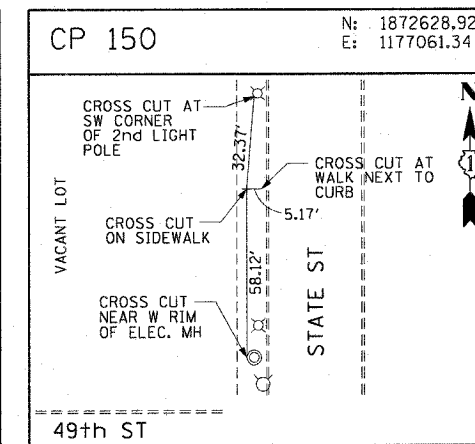
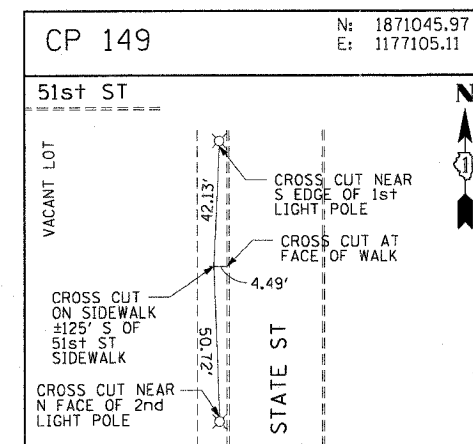
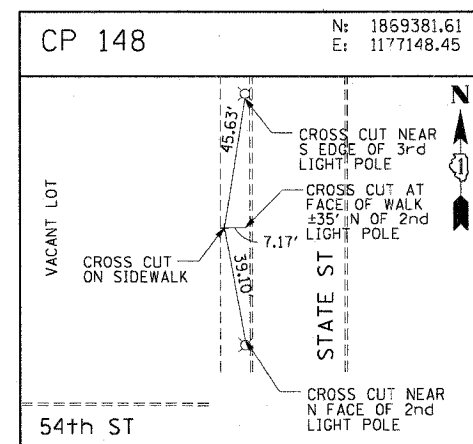
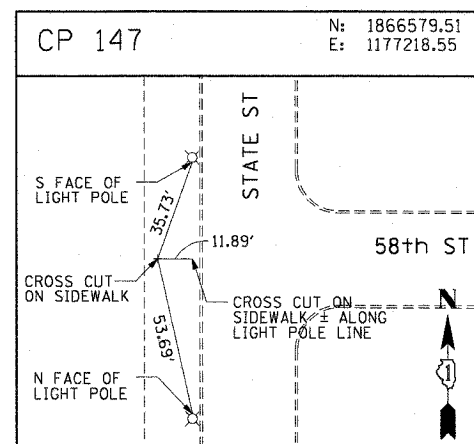
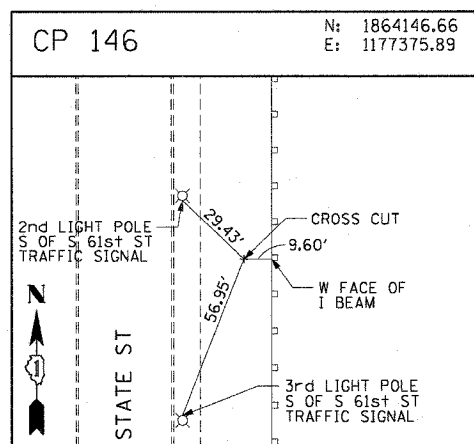
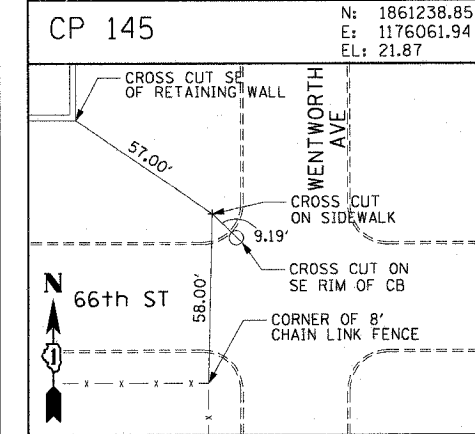
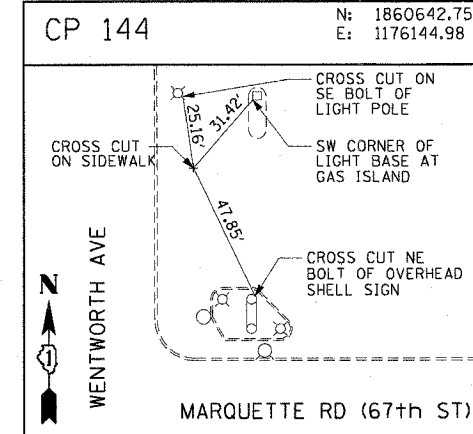
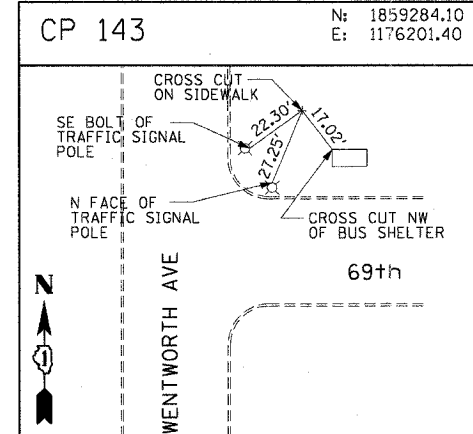
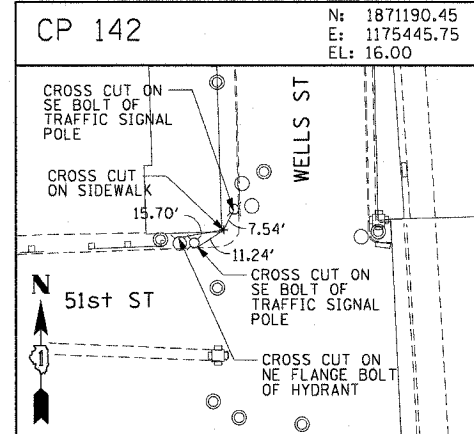
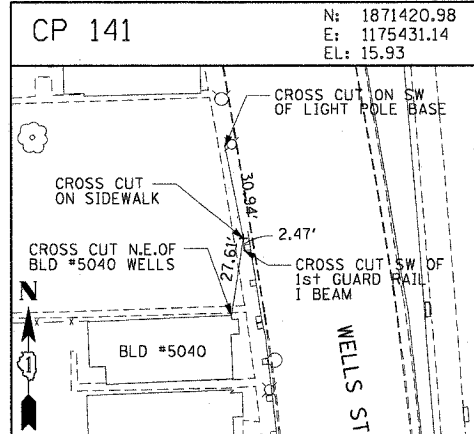
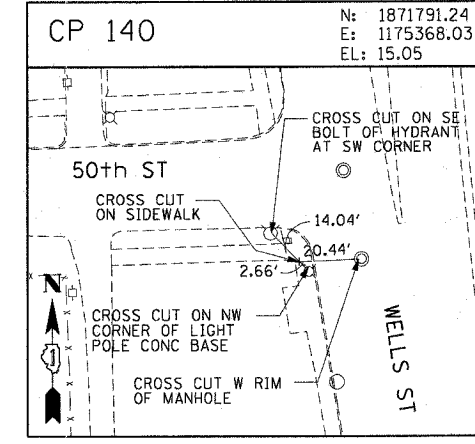
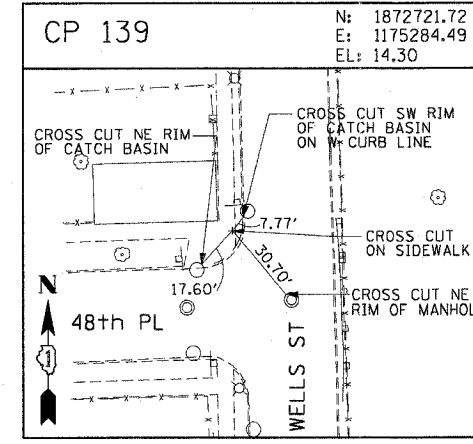
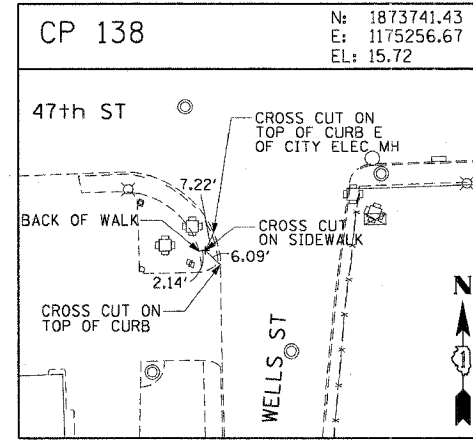
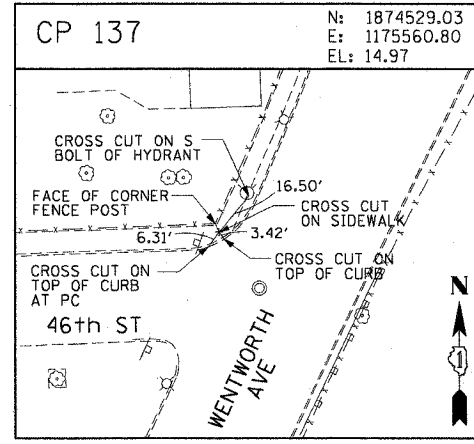
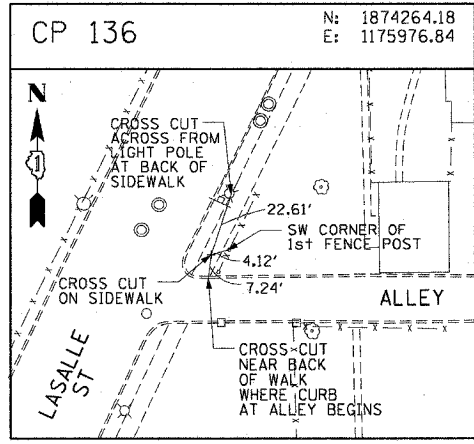
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CHECKED BY: JAL



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	28
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62583



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

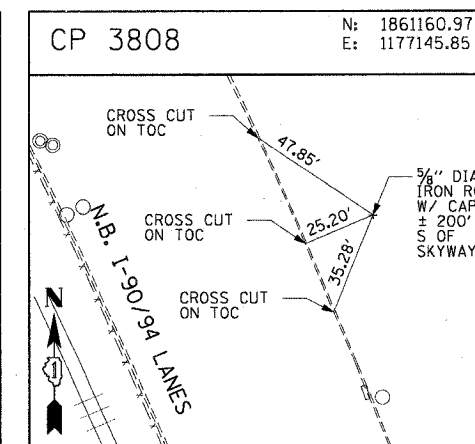
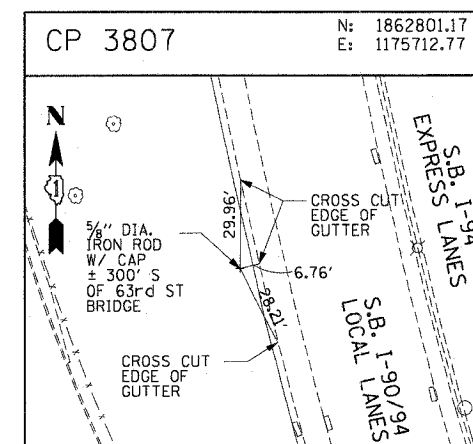
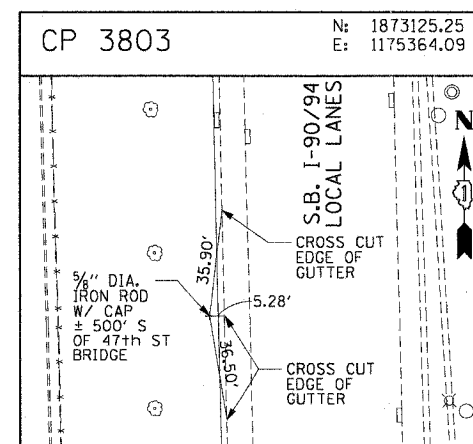
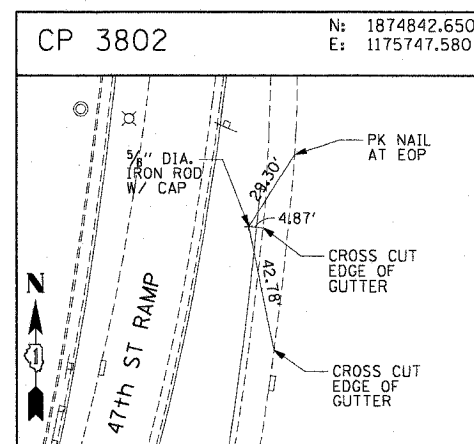
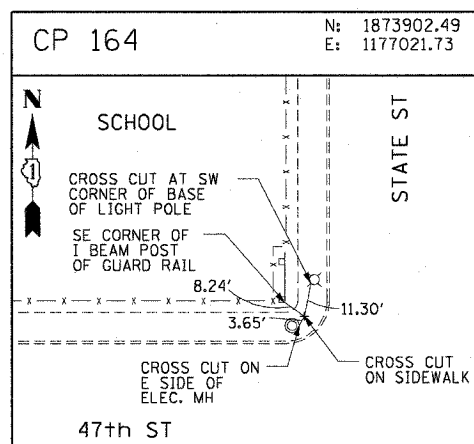
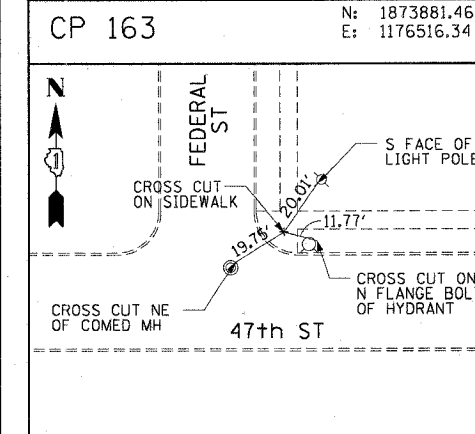
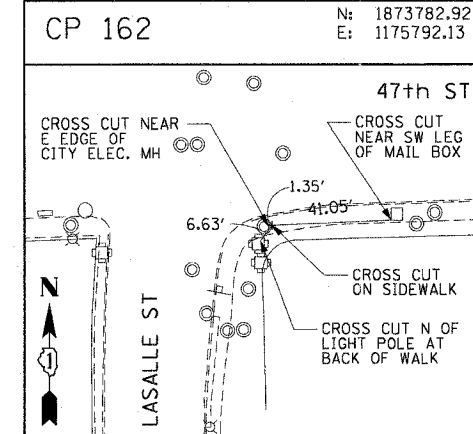
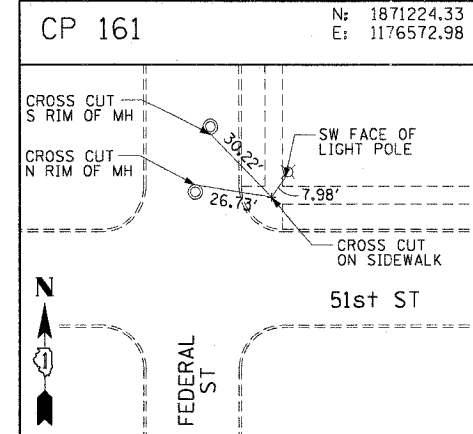
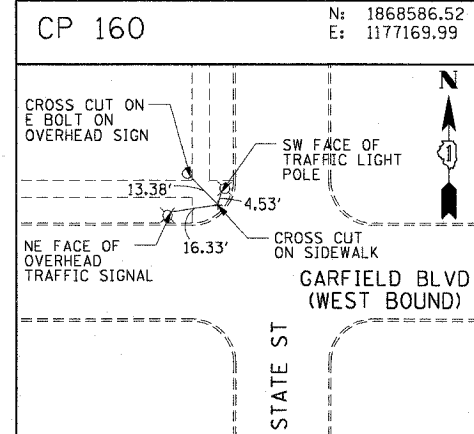
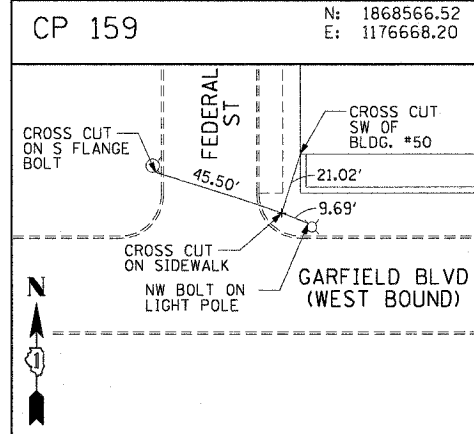
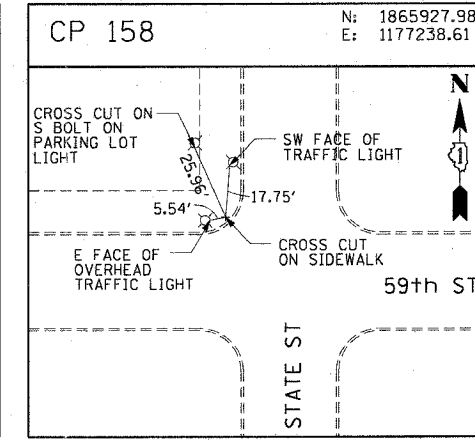
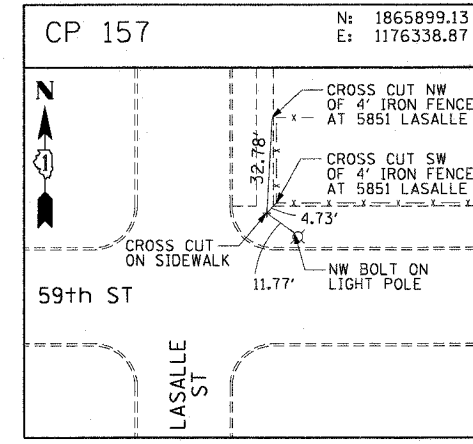
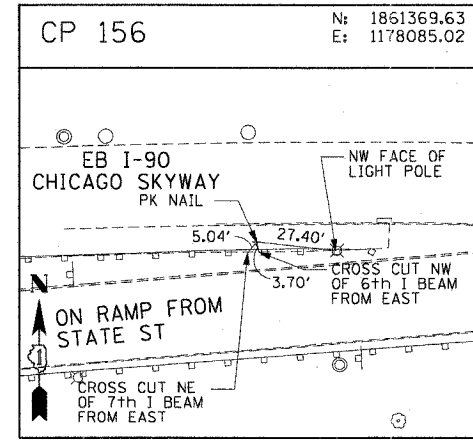
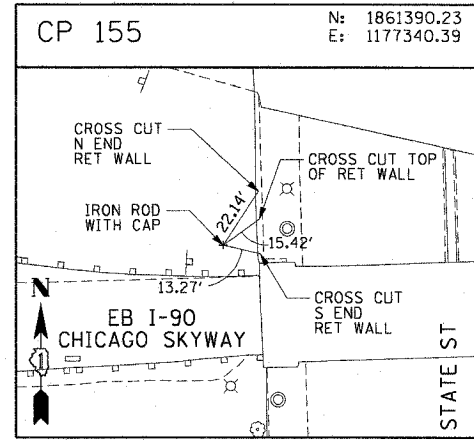
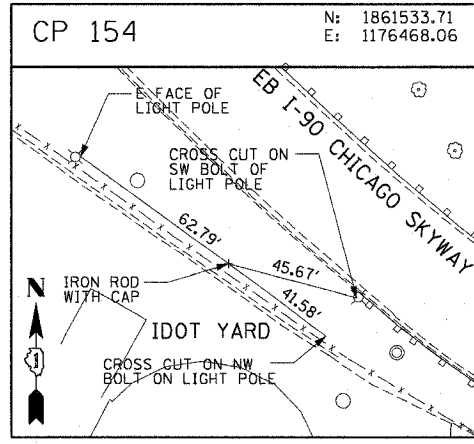
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
SURVEY TIES AND CONTROL POINTS
SCALE: 1"=30'
DATE: October 29, 2004
DRAWN BY: MRK
CHECKED BY: JAL

10/15/2004 03:51:44 PM

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	29
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62583



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
SURVEY TIES AND CONTROL POINTS

SCALE: 1"=30'
DATE: October 29, 2004
DRAWN BY: MRK
CHECKED BY: JAL

10/15/2004 03:51:44 PM

62583	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	30	
STA.		TO STA. 3553+00.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

PROP. CURVE SBLOC05
 PI STA. = 3528+43.63
 Nt = 1,873,784.42
 Et = 1,175,398.10
 $\Delta = 23^\circ 47' 11''$ (RT)
 D = $3^\circ 20' 48''$
 R = 1,712.00'
 T = 360.56'
 L = 710.74'
 E = 37.56'
 P.C. STA = 3524+83.07
 Nt = 1,873,423.99
 Et = 1,175,407.76
 P.T. STA = 3531+93.80
 Nt = 1,874,118.14
 Et = 1,175,534.63

PROP. CURVE SBDR09
 PI STA. = 1528+34.60
 Nt = 1,873,771.86
 Et = 1,175,455.52
 $\Delta = 27^\circ 22' 45''$ (RT)
 D = $3^\circ 22' 13''$
 R = 1,700.00'
 T = 414.09'
 L = 812.35'
 E = 49.71'
 P.C. STA = 1524+20.52
 Nt = 1,873,358.54
 Et = 1,175,480.67
 P.T. STA = 1532+32.87
 Nt = 1,874,150.45
 Et = 1,175,623.26

PROP. CURVE SBLOC06
 PI STA. = 3539+38.89
 Nt = 1,874,807.75
 Et = 1,175,816.77
 $\Delta = 22^\circ 47' 56''$ (LT)
 D = $3^\circ 23' 54''$
 R = 1,686.00'
 T = 339.94'
 L = 670.88'
 E = 33.93'
 P.C. STA = 3535+98.96
 Nt = 1,874,493.12
 Et = 1,175,688.05
 P.T. STA = 3542+69.84
 Nt = 1,875,147.67
 Et = 1,175,813.52

PROP. CURVE SBDR10
 PI STA. = 1539+47.07
 Nt = 1,874,803.43
 Et = 1,175,912.56
 $\Delta = 25^\circ 26' 39''$ (LT)
 D = $3^\circ 49' 11''$
 R = 1,500.00'
 T = 338.65'
 L = 666.13'
 E = 37.75'
 P.C. STA = 1536+08.42
 Nt = 1,874,493.81
 Et = 1,175,775.38
 P.T. STA = 1542+74.55
 Nt = 1,875,141.96
 Et = 1,175,903.41

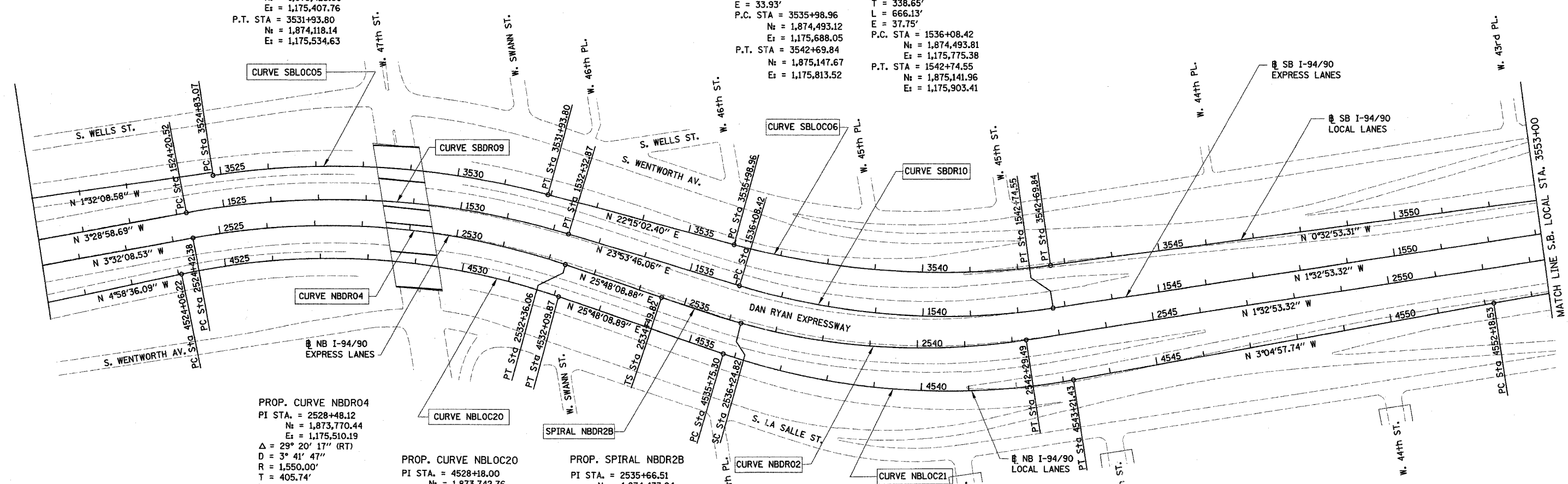
PROP. CURVE NBDRO4
 PI STA. = 2528+48.12
 Nt = 1,873,770.44
 Et = 1,175,510.19
 $\Delta = 29^\circ 20' 17''$ (RT)
 D = $3^\circ 41' 47''$
 R = 1,550.00'
 T = 405.74'
 L = 793.67'
 E = 52.23'
 P.C. STA = 2524+42.38
 Nt = 1,873,365.47
 Et = 1,175,535.22
 P.T. STA = 2532+36.06
 Nt = 1,874,135.73
 Et = 1,175,686.80

PROP. CURVE NBLOC20
 PI STA. = 4528+18.00
 Nt = 1,873,742.76
 Et = 1,175,572.51
 $\Delta = 30^\circ 46' 45''$ (RT)
 D = $3^\circ 49' 48''$
 R = 1,496.00'
 T = 411.77'
 L = 803.65'
 E = 55.64'
 P.C. STA = 4524+06.22
 Nt = 1,873,332.54
 Et = 1,175,608.23
 P.T. STA = 4532+09.87
 Nt = 1,874,113.48
 Et = 1,175,751.74

PROP. SPIRAL NBDR2B
 PI STA. = 2535+66.51
 Nt = 1,874,433.24
 Et = 1,175,830.64
 $\Delta = 3^\circ 27' 27''$
 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
 Nt = 1,874,328.19
 Et = 1,175,779.85
 S.C. STA = 2536+24.82
 Nt = 1,874,487.21
 Et = 1,175,852.82

PROP. CURVE NBDRO2
 PI STA. = 2539+31.62
 Nt = 1,874,770.97
 Et = 1,175,969.46
 $\Delta = 23^\circ 53' 35''$ (LT)
 D = $3^\circ 57' 05''$
 R = 1,450.00'
 T = 306.79'
 L = 604.67'
 E = 32.10'
 P.C. STA = 2536+24.82
 Nt = 1,874,487.21
 Et = 1,175,852.82
 P.T. STA = 2542+29.49
 Nt = 1,875,077.65
 Et = 1,175,961.17

PROP. CURVE NBLOC21
 PI STA. = 4539+56.47
 Nt = 1,874,785.65
 Et = 1,176,076.72
 $\Delta = 28^\circ 53' 07''$ (LT)
 D = $3^\circ 52' 17''$
 R = 1,480.00'
 T = 381.17'
 L = 746.13'
 E = 48.30'
 P.C. STA = 4535+75.30
 Nt = 1,874,442.48
 Et = 1,175,910.80
 P.T. STA = 4543+21.43
 Nt = 1,875,166.27
 Et = 1,176,056.22

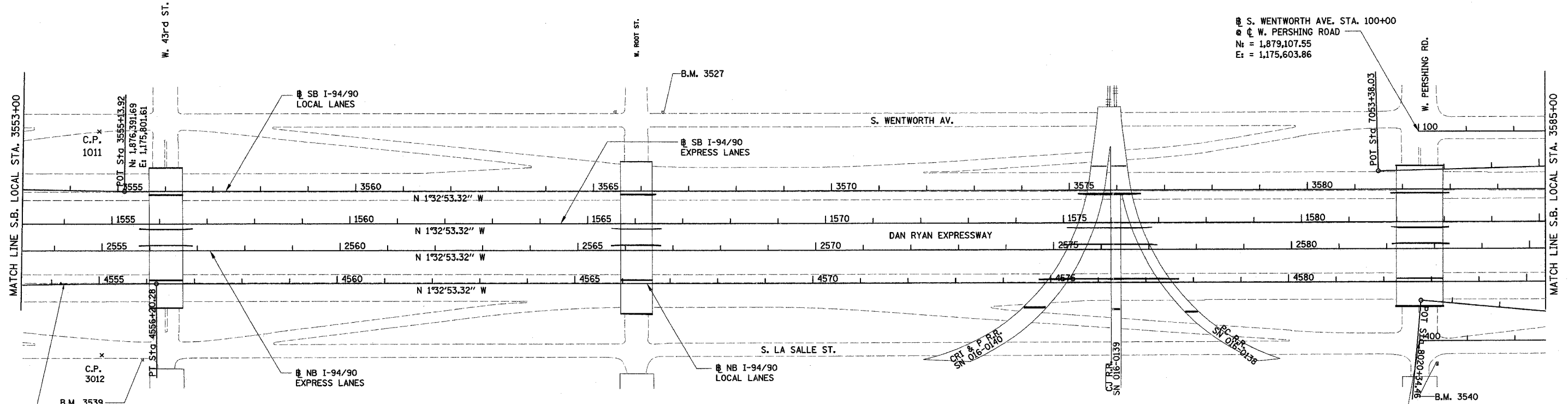
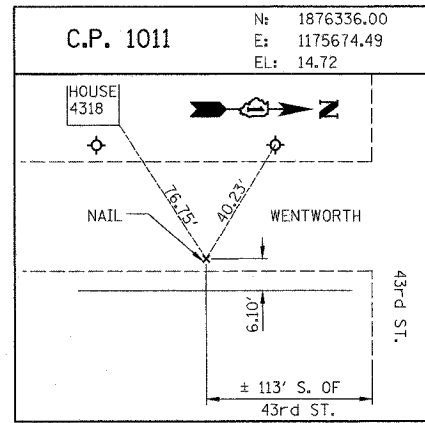


BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 118 EAST RANDOLPH STREET SUITE 2650 CHICAGO, ILLINOIS 60601
 312.467.1100

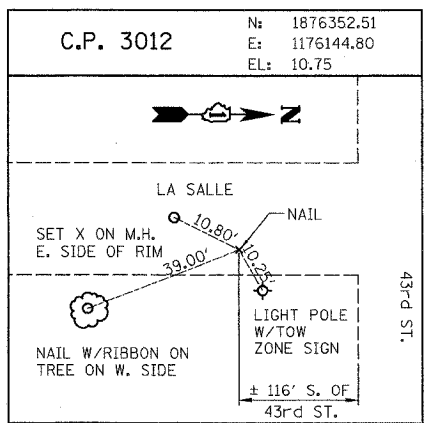
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS
 ALIGNMENT AND TIES SHEET
 SCALE: 1"=100'
 DATE: OCTOBER 15, 2004
 DRAWN BY: RA
 CHECKED BY: JDC

62583	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	31	
STA. 3553+00.00		TO STA. 3585+00.00			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



CURVE NBLOC22
 PROP. CURVE NBLOC22
 PI STA. = 4554+19.42
 N_i = 1,876,262.66
 E_i = 1,175,997.17
 Δ = 1° 32' 04" (RT)
 D = 0° 22' 55"
 R = 15,000.00'
 T = 200.89'
 L = 401.75'
 E = 1.35'
 P.C. STA = 4552+18.53
 N_i = 1,876,062.07
 E_i = 1,176,007.97
 P.T. STA = 4556+20.28
 N_f = 1,876,463.47
 E_f = 1,175,991.74



REVISIONS	
NAME	DATE

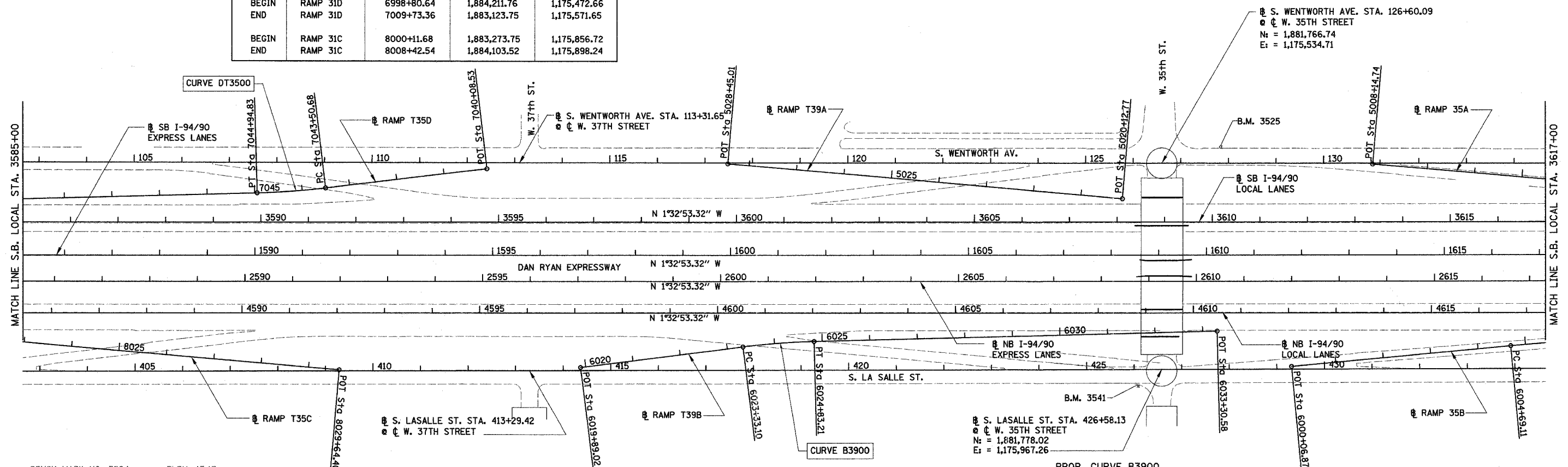
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS
 ALIGNMENT AND TIES SHEET
 SCALE: 1"=100'
 DATE: OCTOBER 15, 2004
 DRAWN BY: RA
 CHECKED BY: JDC

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 330 EAST RANDOLPH STREET SUITE 2450 CHICAGO, ILLINOIS 60601
 JOB NO. ...

62583	F.A. RTE. 90/94	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 32
STA. 3585+00.00		TO STA. 3617+00.00			
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

PROP. CURVE DT3500
 PI STA. = 7044+22.81
 Nt = 1,879,939.16
 Et = 1,175,643.87
 $\Delta = 5^\circ 14' 38''$ (RT)
 D = 3° 38' 16"
 R = 1,575.00'
 T = 72.13'
 L = 144.15'
 E = 1.65'
 S.E. = 0.036 FT/FT
 S.A. = 7043+14.68 TO 7043+59.68
 S.R. = 7044+85.83 TO 7045+30.83
 P.C. STA = 7043+50.68
 Nt = 1,880,010.54
 Et = 1,175,633.56
 P.T. STA = 7044+94.83
 Nt = 1,879,867.13
 Et = 1,175,647.62

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP T35D	7040+08.53	1,880,349.18	1,175,584.62
END	RAMP T35D	7053+38.03	1,879,025.07	1,175,691.43
BEGIN	RAMP T35C	8020+34.46	1,879,121.15	1,175,958.93
END	RAMP T35C	8029+64.40	1,880,049.40	1,176,014.92
BEGIN	RAMP T39A	5020+12.77	1,881,685.70	1,175,610.45
END	RAMP T39A	5028+45.02	1,880,854.96	1,175,560.34
BEGIN	RAMP T39B	6019+89.02	1,880,556.70	1,175,995.95
END	RAMP T39B	6033+30.58	1,881,892.23	1,175,884.04
BEGIN	RAMP 35A	5000+11.94	1,883,011.02	1,175,573.65
END	RAMP 35A	5008+14.74	1,882,209.69	1,175,525.14
BEGIN	RAMP 35B	6000+06.87	1,882,050.72	1,175,953.56
END	RAMP 35B	6009+98.58	1,883,037.81	1,175,862.08
BEGIN	RAMP 31D	6998+80.64	1,884,211.76	1,175,472.66
END	RAMP 31D	7009+73.36	1,883,123.75	1,175,571.65
BEGIN	RAMP 31C	8000+11.68	1,883,273.75	1,175,856.72
END	RAMP 31C	8008+42.54	1,884,103.52	1,175,898.24



BENCH MARK NO. 3524 ELEV. 15.17
 DESCRIPTION:
 CROSS CUT ON NORTH FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 31st ST. AND WENTWORTH AVE.

BENCH MARK NO. 3525 ELEV. 16.33
 DESCRIPTION:
 CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 35th ST. AND WENTWORTH AVE.

BENCH MARK NO. 3526 ELEV. 17.37
 DESCRIPTION:
 CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE WENTWORTH GARDEN OFFICE ALONG THE WEST SIDE OF WENTWORTH AVE.

BENCH MARK NO. 3527 ELEV. 15.63
 DESCRIPTION:
 CROSS CUT ON NORTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF ROOT ST. AND WENTWORTH AVE.

BENCH MARK NO. 3539 ELEV. 13.10
 DESCRIPTION:
 CROSS CUT ON EASTERLY BOLT OF LIGHT POLE BASE AT THE SOUTHEAST CORNER OF 43rd ST. AND LA SALLE ST.

BENCH MARK NO. 3540 ELEV. 12.33
 DESCRIPTION:
 SQUARE CUT ON THE SOUTHWEST CORNER OF THE TRAFFIC CONTROL BOX AT THE NORTHEAST CORNER OF 39th ST. AND LA SALLE ST.

BENCH MARK NO. 3541 ELEV. 14.78
 DESCRIPTION:
 CROSS CUT ON THE SOUTHWEST BOLT OF LIGHT POLE BASE AT THE SOUTH EAST CORNER OF 35th ST. AND LA SALLE ST.

BENCH MARK NO. 3542 ELEV. 13.57
 DESCRIPTION:
 SQUARE CUT ON THE EASTERLY FLANGE BOLT OF THE FIRE HYDRANT AT THE INTERSECTION OF 31st ST. AND LA SALLE ST.

PROP. CURVE B3900
 PI STA. = 6024+08.22
 Nt = 1,880,970.99
 Et = 1,175,931.99
 $\Delta = 5^\circ 47' 44''$ (RT)
 D = 3° 51' 39"
 R = 1,484.00'
 T = 75.12'
 L = 150.11'
 E = 1.90'
 S.E. = 0.037 FT/FT
 S.A. = 6022+97.10 TO 6023+42.11
 S.R. = 6024+74.21 TO 6025+19.21
 P.C. STA = 6023+33.10
 Nt = 1,880,896.76
 Et = 1,175,943.46
 P.T. STA = 6024+83.21
 Nt = 1,881,046.00
 Et = 1,175,928.09

REVISIONS	
NAME	DATE

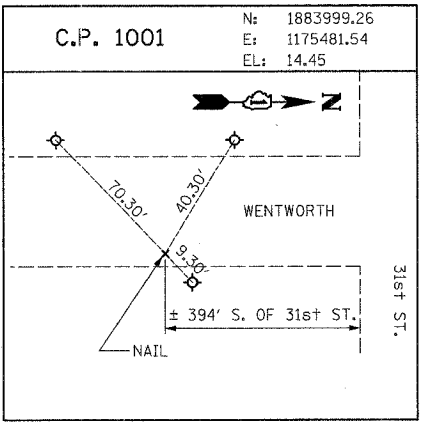
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS
 ALIGNMENT AND TIES SHEET

SCALE: 1"=100'
 DATE: OCTOBER 15, 2004

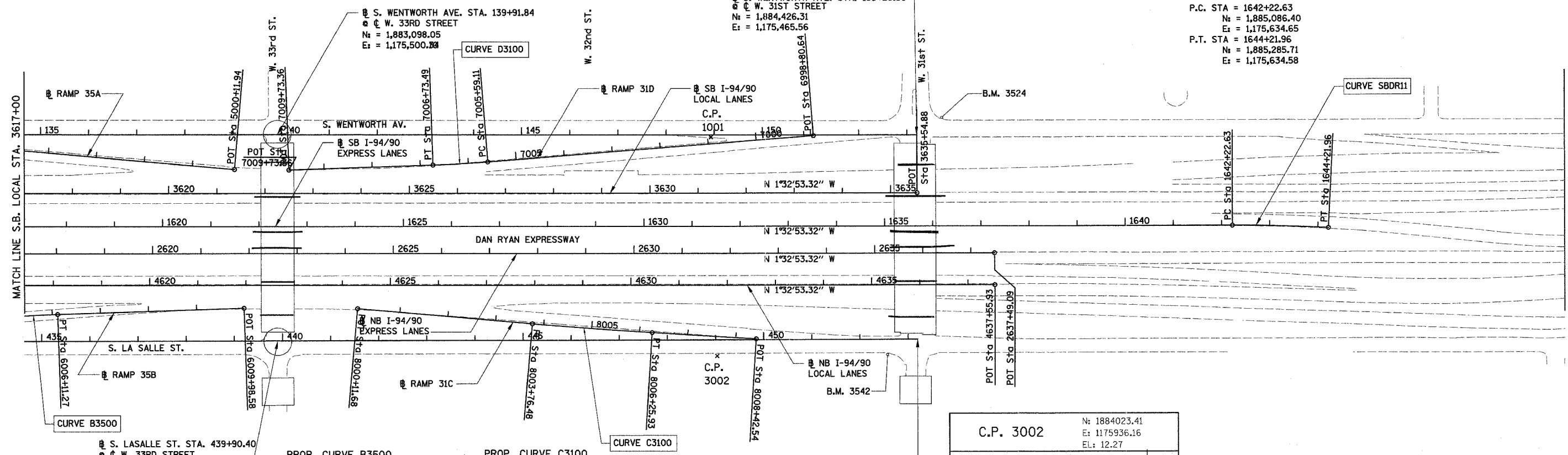
DRAWN BY: RA
 CHECKED BY: JDC

62583	F.A. RTE. 90/94	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 33
STA. 3617+00.00		TO STA.			
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

PROP. CURVE D3100
 PI STA. = 7006+16.31
 Nt = 1,883,480.18
 Et = 1,175,550.12
 $\Delta = 2^\circ 35' 11''$ (RT)
 D = 2° 15' 40"
 R = 2,534.00'
 T = 57.20'
 L = 114.38'
 E = 0.65'
 S.E. = 0.026 FT/FT
 S.A. = 7005+43.11 TO 7005+63.11
 S.R. = 7006+69.49 TO 7006+89.49
 P.C. STA = 7005+59.11
 Nt = 1,883,537.06
 Et = 1,175,544.09
 P.T. STA = 7006+73.49
 Nt = 1,883,423.08
 Et = 1,175,553.57



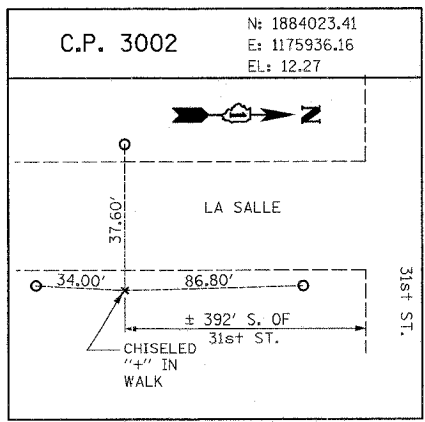
PROP. CURVE SBDR11
 PI STA. = 1643+22.32
 Nt = 1,885,186.06
 Et = 1,175,631.95
 $\Delta = 3^\circ 03' 18''$ (RT)
 D = 1° 31' 57"
 R = 3,738.57'
 T = 99.69'
 L = 199.34'
 E = 1.33'
 P.C. STA = 1642+22.63
 Nt = 1,885,086.40
 Et = 1,175,634.65
 P.T. STA = 1644+21.96
 Nt = 1,885,285.71
 Et = 1,175,634.58



PROP. CURVE B3500
 PI STA. = 6005+40.21
 Nt = 1,882,580.23
 Et = 1,175,889.72
 $\Delta = 3^\circ 25' 00''$ (RT)
 D = 2° 24' 12"
 R = 2,384.00'
 T = 71.10'
 L = 142.16'
 E = 1.06'
 S.E. = 0.027 FT/FT
 S.A. = 6004+53.11 TO 6004+73.11
 S.R. = 6006+07.27 TO 6006+27.27
 P.C. STA = 6004+69.11
 Nt = 1,882,509.64
 Et = 1,175,898.23
 P.T. STA = 6006+11.27
 Nt = 1,882,651.20
 Et = 1,175,885.43

PROP. CURVE C3100
 PI STA. = 8005+01.21
 Nt = 1,883,762.40
 Et = 1,175,886.19
 $\Delta = 1^\circ 25' 45''$ (LT)
 D = 0° 34' 23"
 R = 10,000.00'
 T = 124.73'
 L = 249.44'
 E = 0.78'
 S.E. = 0.010 FT/FT
 S.A. = 8004+10.21 TO 8004+38.21
 S.R. = 8005+64.20 TO 8005+92.20
 P.C. STA = 8003+76.48
 Nt = 1,883,637.89
 Et = 1,175,878.68
 P.T. STA = 8006+25.93
 Nt = 1,883,887.05
 Et = 1,175,890.60

PROP. CURVE C3100
 PI STA. = 8005+01.21
 Nt = 1,883,762.40
 Et = 1,175,886.19
 $\Delta = 1^\circ 25' 45''$ (LT)
 D = 0° 34' 23"
 R = 10,000.00'
 T = 124.73'
 L = 249.44'
 E = 0.78'
 S.E. = 0.010 FT/FT
 S.A. = 8004+10.21 TO 8004+38.21
 S.R. = 8005+64.20 TO 8005+92.20
 P.C. STA = 8003+76.48
 Nt = 1,883,637.89
 Et = 1,175,878.68
 P.T. STA = 8006+25.93
 Nt = 1,883,887.05
 Et = 1,175,890.60



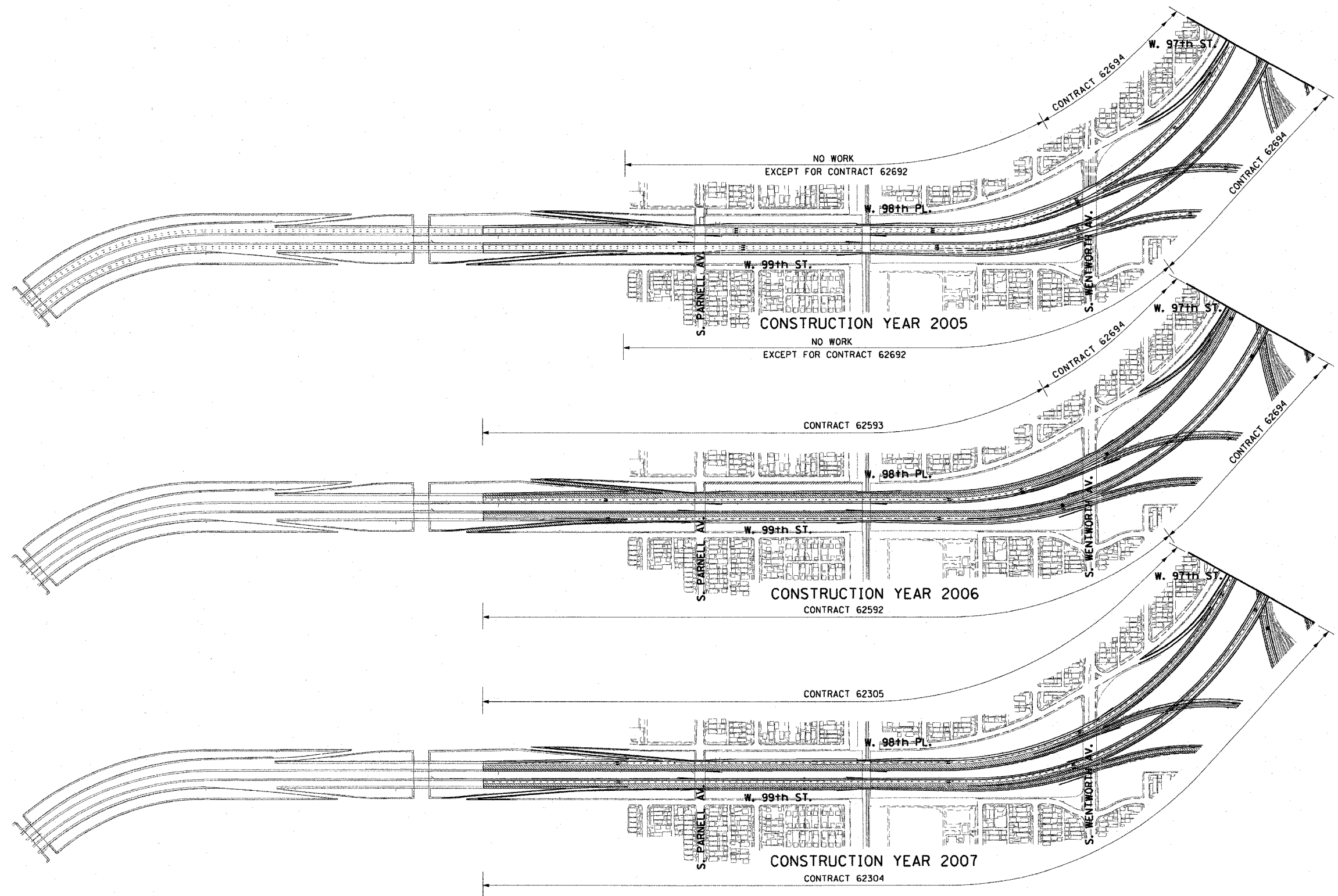
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS
 ALIGNMENT AND TIES SHEET
 SCALE: 1"=100'
 DATE: OCTOBER 15, 2004
 DRAWN BY: RA
 CHECKED BY: JDC

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 134 EAST RANDOLPH STREET SUITE 2400 CHICAGO, ILLINOIS 60601
 JOB NO. ...

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	34
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62583



CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005					CONSTRUCTION YEAR 2006					CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN	62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62594	C-D RAMPS	83RD TO 79TH	JAN. 2004	TY LIN	62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62585	S.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT	62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62590	C-D RAMPS	71ST TO 67TH	APR. 2004	CTE/E&K	62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K	62694	N.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62586	FRONTAGE ROADS & RAMPS	57TH TO 47TH	JULY 2004	CTE	62695	S.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62584	N.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT										
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE										
62693	FRONTAGE ROADS & RAMPS	63RD TO 59TH	JAN. 2005	CTE										

LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
**CONSTRUCTION STAGING AND
 TRAFFIC CONTROL OVERVIEW**

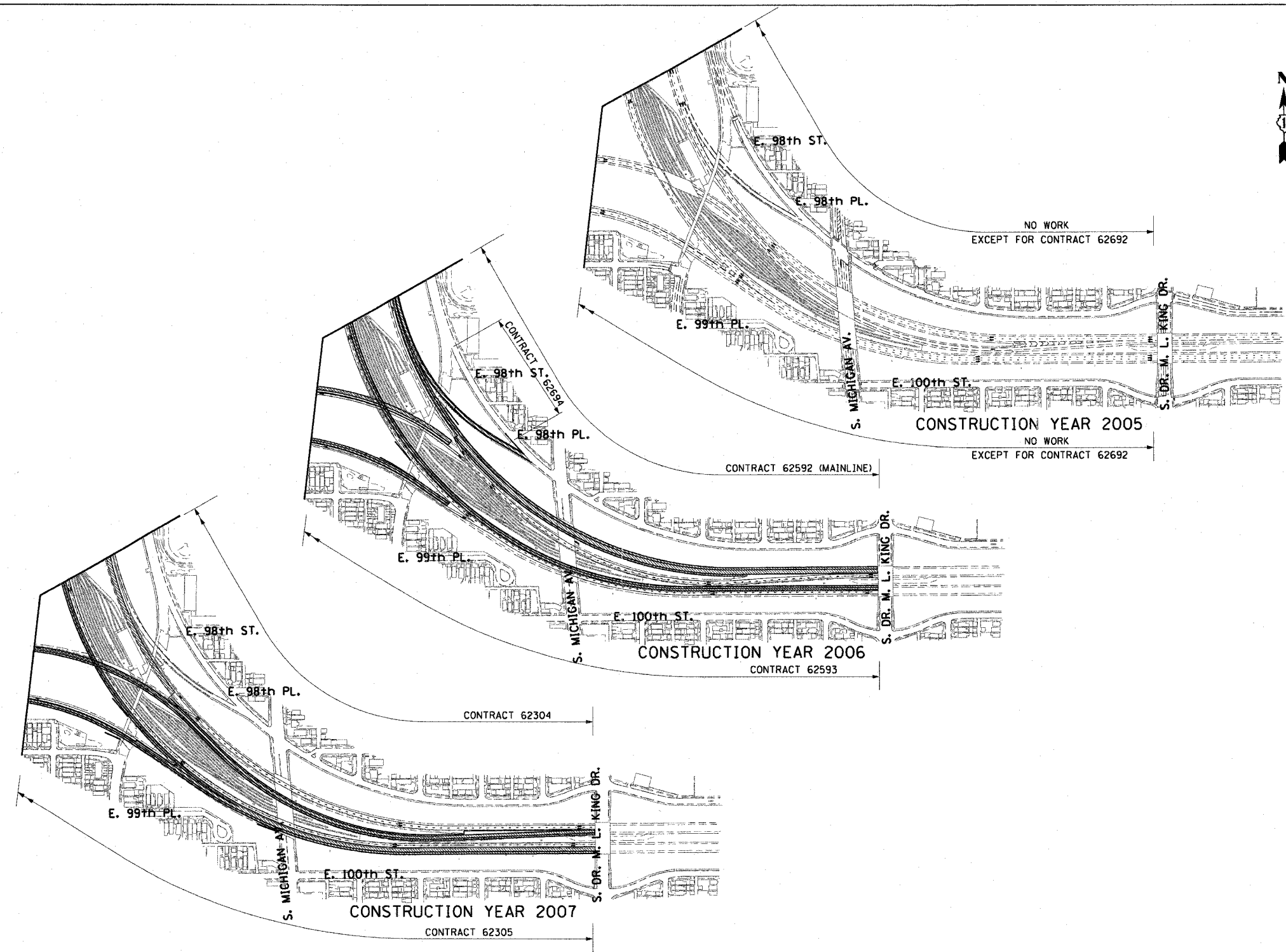
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 CHECKED BY: PJO



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	35
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62583



CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN
62594	C-D RAMP	83RD TO 79TH	JAN. 2004	TY LIN
62585	S.B. RAMP	39TH TO 31ST	JULY 2004	BOWMAN BARRETT
62590	C-D RAMP	71ST TO 67TH	APR. 2004	CTE/EA&K
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/EA&K
62586	FRONTAGE ROADS & RAMP	57TH TO 47TH	JULY 2004	CTE
62584	N.B. RAMP	39TH TO 31ST	JULY 2004	BOWMAN BARRETT
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE
62693	FRONTAGE ROADS & RAMP	63RD TO 59TH	JAN. 2005	CTE

CONSTRUCTION YEAR 2006				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B
62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B
62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN
62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN
62694	N.B. RAMP & C-D RAMP	71ST SOUTH	JUNE 2005	TY LIN
62695	S.B. RAMP & C-D RAMP	71ST SOUTH	JUNE 2005	TY LIN

CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN

LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

REVISIONS	
NAME	DATE

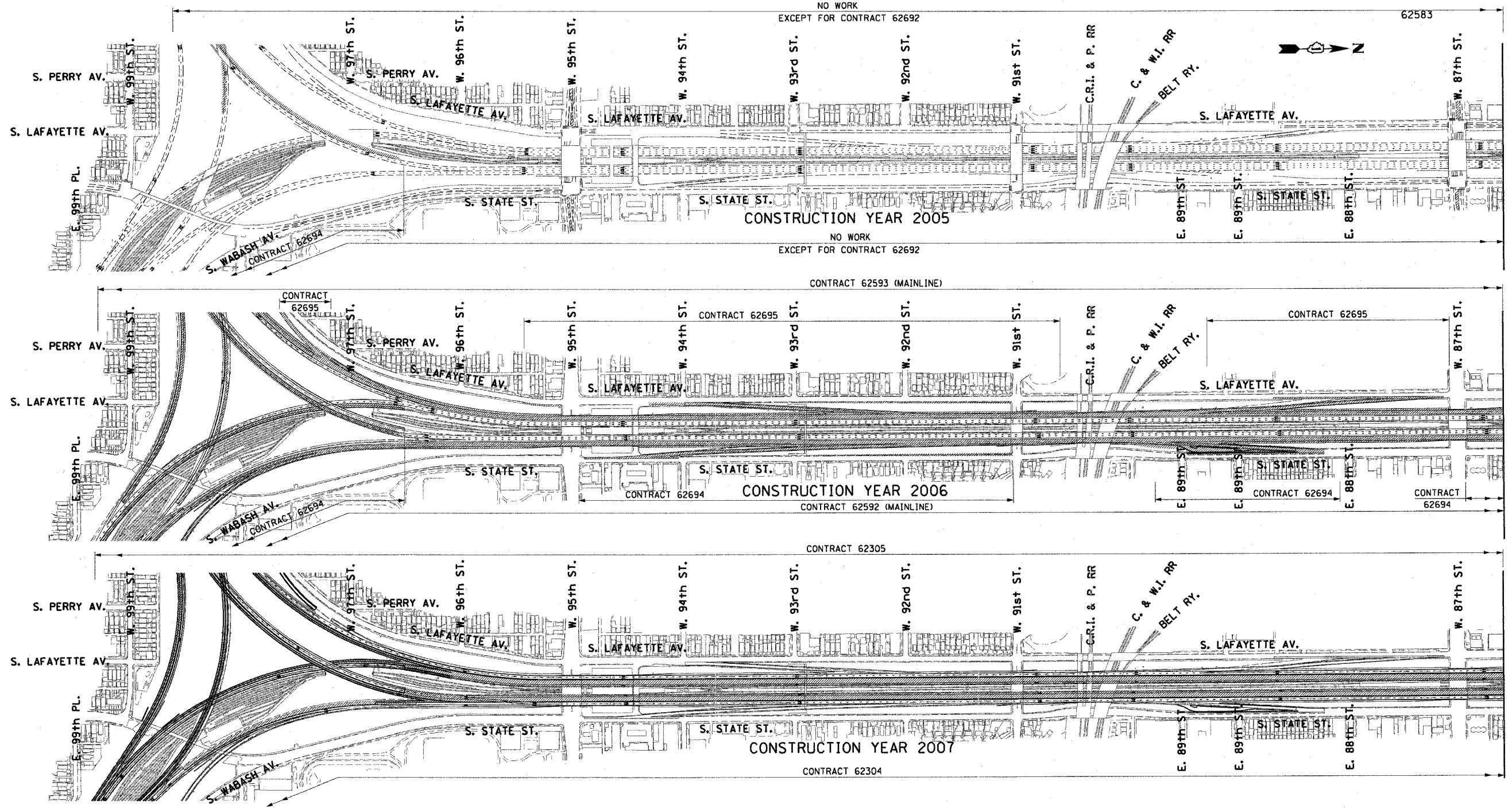
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
**CONSTRUCTION STAGING AND
 TRAFFIC CONTROL OVERVIEW**

SCALE: 1"=300'
 DATE: October 29, 2004
 DRAWN BY: PHP
 CHECKED BY: PJO



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	36
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN
62594	C-D RAMPS	83RD TO 79TH	JAN. 2004	TY LIN
62585	S.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT
62590	C-D RAMPS	71ST TO 67TH	APR. 2004	CTE/E&K
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K
62586	FRONTAGE ROADS & RAMPS	57TH TO 47TH	JULY 2004	CTE
62584	N.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE
62693	FRONTAGE ROADS & RAMPS	63RD TO 59TH	JAN. 2005	CTE

CONSTRUCTION YEAR 2006				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B
62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B
62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN
62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN
62694	N.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN
62695	S.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN

CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN

LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

REVISIONS	
NAME	DATE

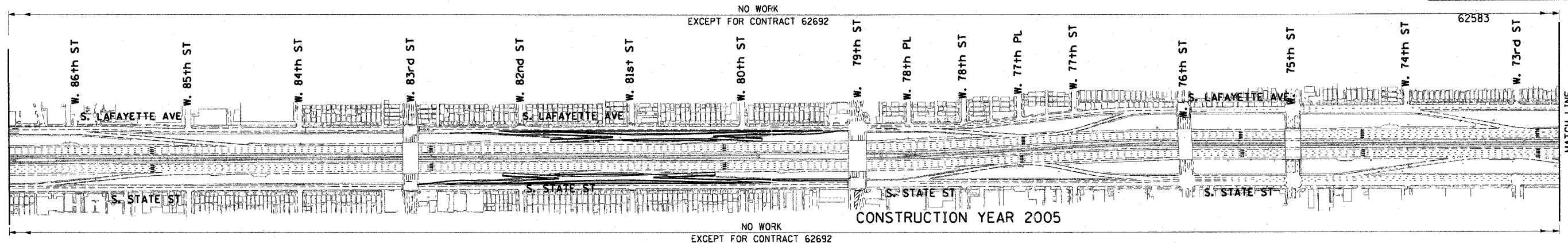
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW

SCALE: 1"=300'
 DATE: October 29, 2004
 DRAWN BY: PHP
 CHECKED BY: PJO

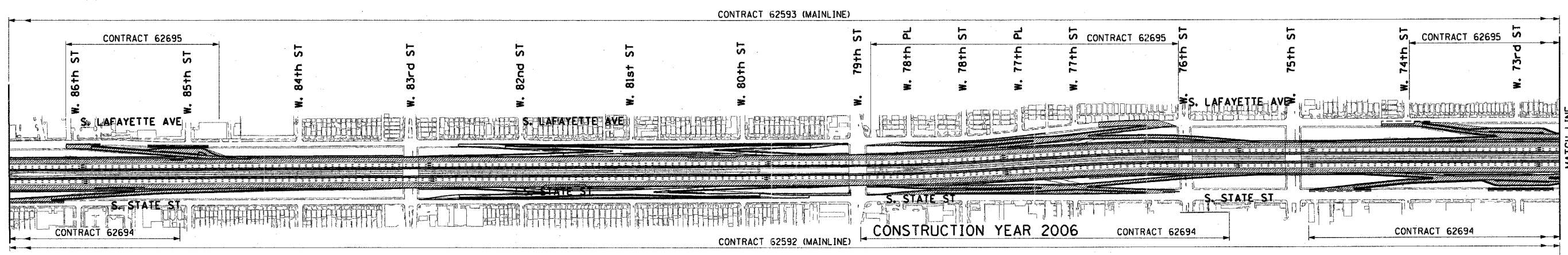


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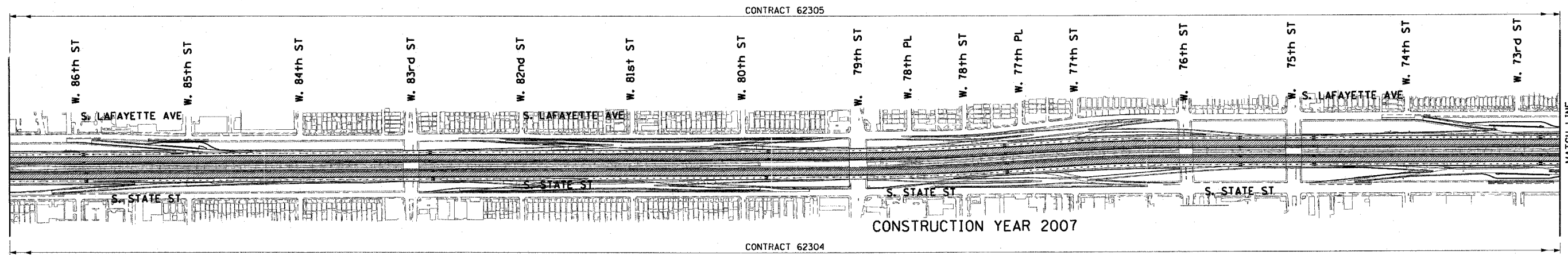
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	37
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



MATCH LINE
SEE SHEET 5 OF 9



MATCH LINE
SEE SHEET 6 OF 9



MATCH LINE
SEE SHEET 7 OF 9

NOTE: ONLY STAGE 1 TRAFFIC AND CONSTRUCTION ZONE AREA FOR CONTRACT 62303 (SOUTH OF 67TH STREET) AND CONTRACTS 62304 AND 62305 (ENTIRE LENGTH) HAVE BEEN SHOWN FOR CLARITY.

CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005					CONSTRUCTION YEAR 2006					CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN	62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62594	C-D RAMPS	83RD TO 79TH	JAN. 2004	TY LIN	62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62585	S.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT	62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62590	C-D RAMPS	71ST TO 67TH	APR. 2004	CTE/E&K	62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62694	N.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K	62695	S.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62586	FRONTAGE ROADS & RAMPS	57TH TO 47TH	JULY 2004	CTE										
62584	N.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT										
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE										
62693	FRONTAGE ROADS & RAMPS	63RD TO 59TH	JAN. 2005	CTE										



LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

REVISIONS	
NAME	DATE

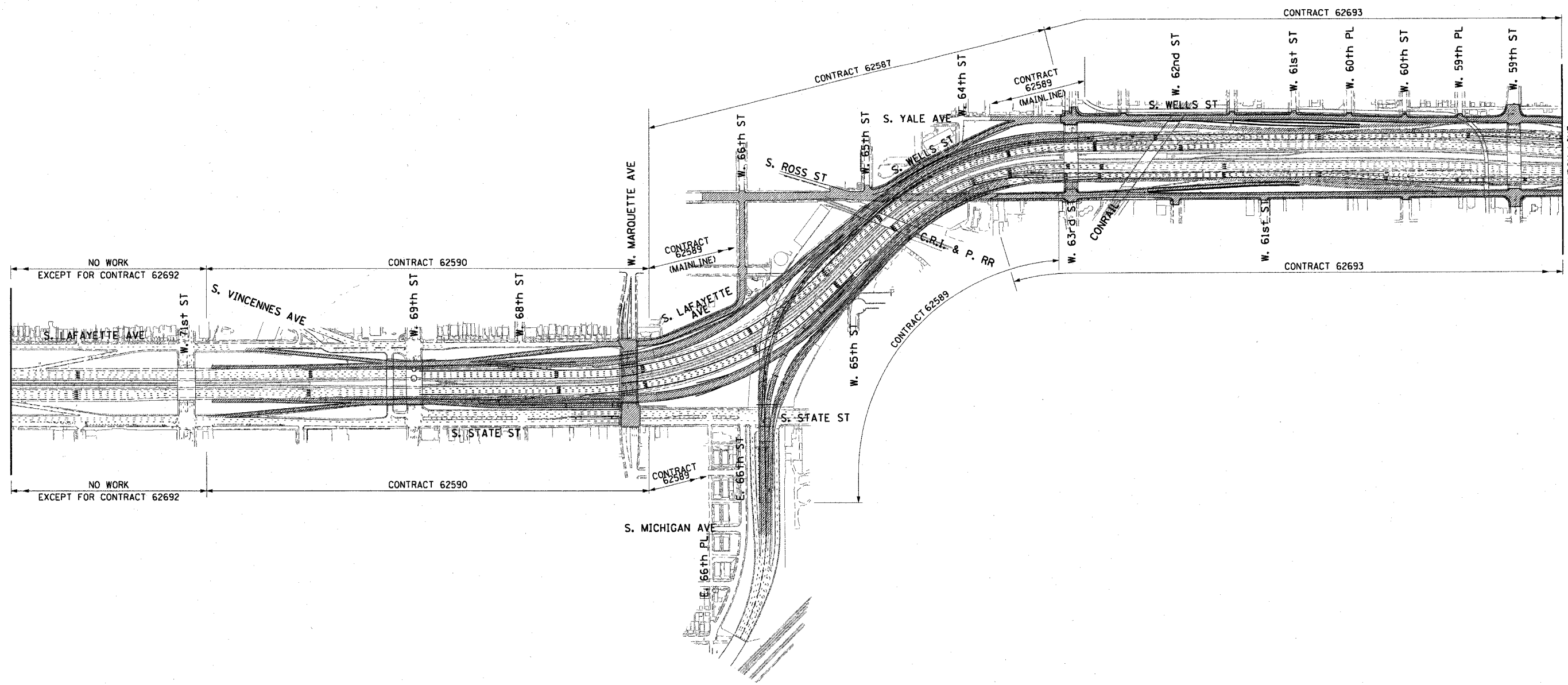
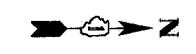
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW

SCALE: 1"=300'
 DATE: October 29, 2004
 DRAWN BY: PHP
 CHECKED BY: PJO

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	38
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62583



CONSTRUCTION YEAR 2005

CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005					CONSTRUCTION YEAR 2006					CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN	62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62594	C-D RAMP	83RD TO 79TH	JAN. 2004	TY LIN	62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62585	S.B. RAMP	39TH TO 31ST	JULY 2004	BOWMAN BARRETT	62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62590	C-D RAMP	71ST TO 67TH	APR. 2004	CTE/E&K	62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K	62694	N.B. RAMP & C-D RAMP	71ST SOUTH	JUNE 2005	TY LIN					
62586	FRONTAGE ROADS & RAMP	57TH TO 47TH	JULY 2004	CTE	62695	S.B. RAMP & C-D RAMP	71ST SOUTH	JUNE 2005	TY LIN					
62584	N.B. RAMP	39TH TO 31ST	JULY 2004	BOWMAN BARRETT										
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE										
62693	FRONTAGE ROADS & RAMP	63RD TO 59TH	JAN. 2005	CTE										




LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

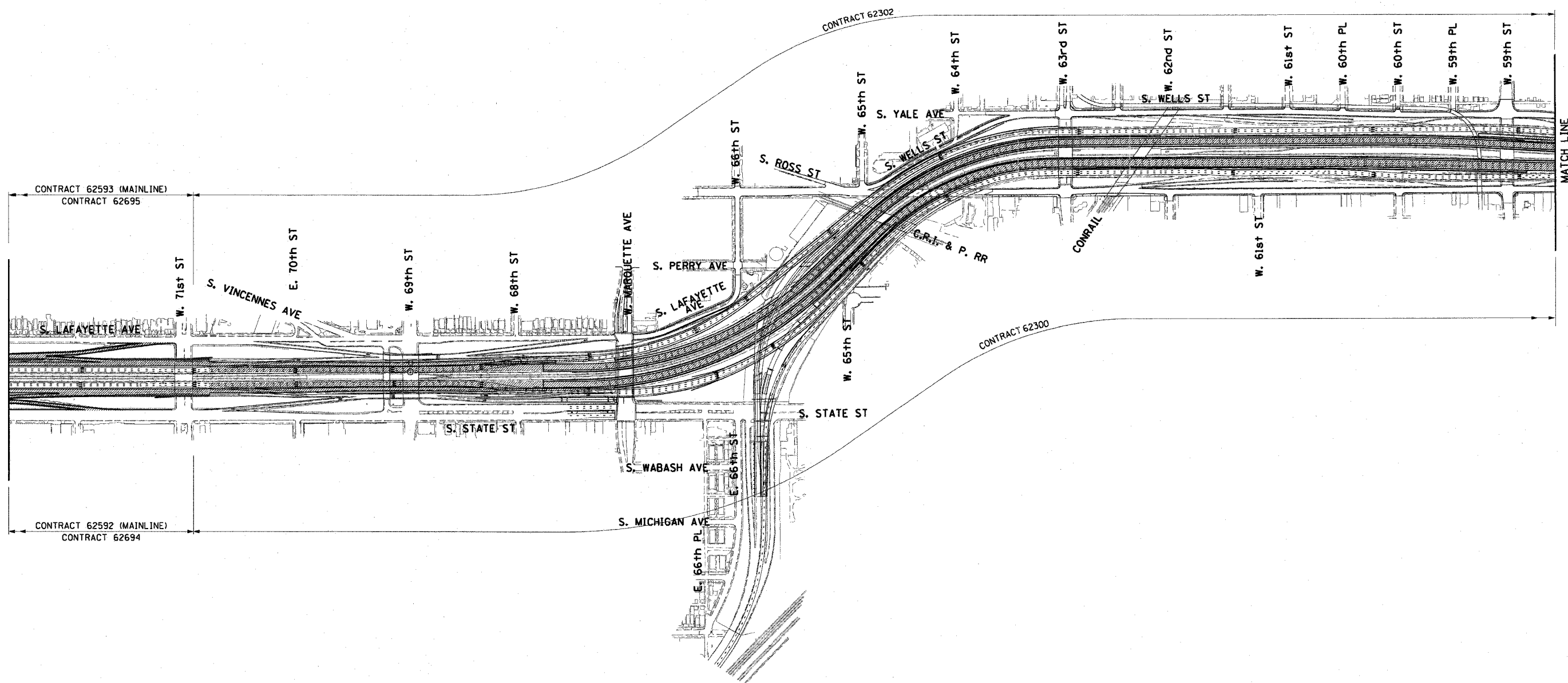
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 CONSTRUCTION STAGING AND
 TRAFFIC CONTROL OVERVIEW

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	39
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62583






CONSTRUCTION YEAR 2006

CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005					CONSTRUCTION YEAR 2006					CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN	62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62594	C-D RAMPS	83RD TO 79TH	JAN. 2004	TY LIN	62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62585	S.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT	62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62590	C-D RAMPS	71ST TO 67TH	APR. 2004	CTE/E&K	62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K	62694	N.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62586	FRONTAGE ROADS & RAMPS	57TH TO 47TH	JULY 2004	CTE	62695	S.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62584	N.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT										
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE										
62693	FRONTAGE ROADS & RAMPS	63RD TO 59TH	JAN. 2005	CTE										



LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

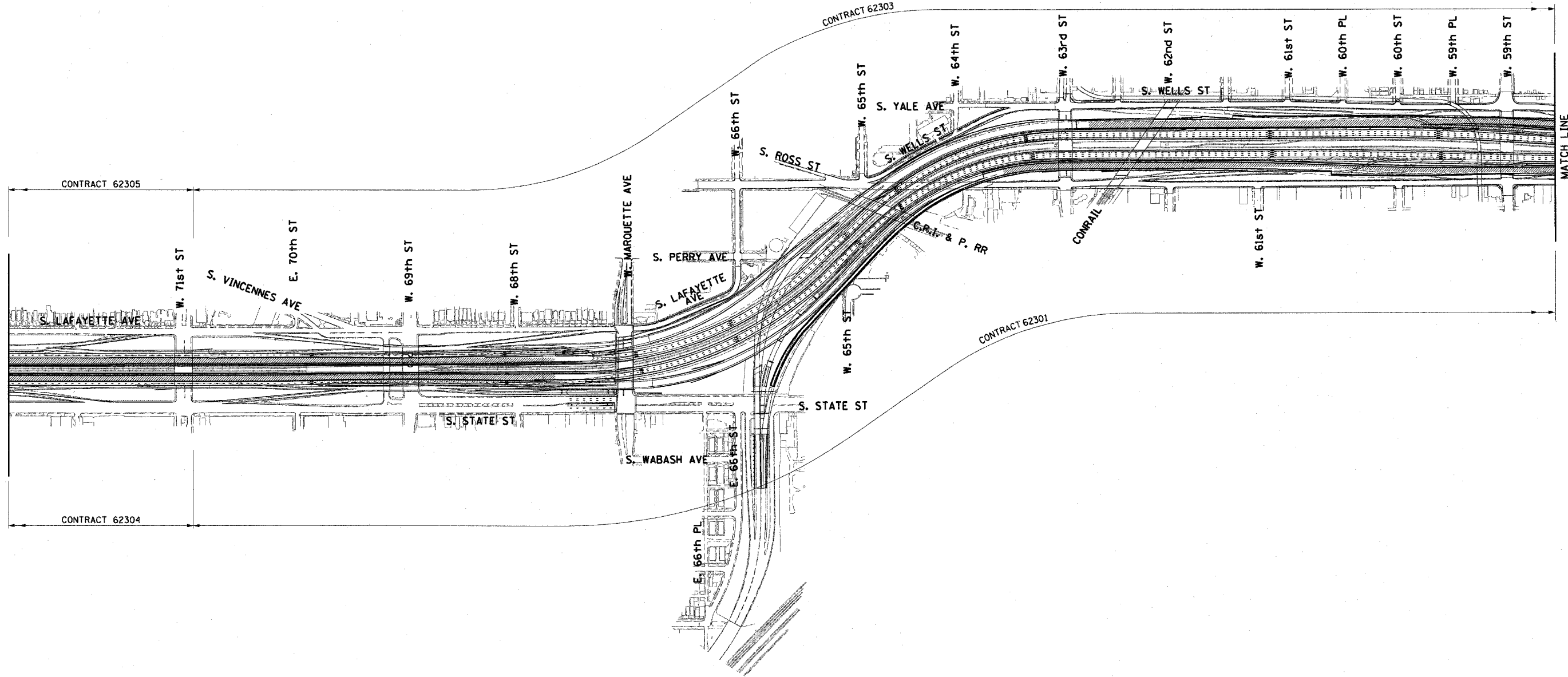
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 CONSTRUCTION STAGING AND
 TRAFFIC CONTROL OVERVIEW

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	40
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62583



NOTE: ONLY STAGE 1 TRAFFIC AND CONSTRUCTION ZONE AREA FOR CONTRACTS 62301 AND 62303 (SOUTH OF 67TH STREET) AND CONTRACTS 62304 AND 62305 (ENTIRE LENGTH) HAVE BEEN SHOWN FOR CLARITY.

CONSTRUCTION YEAR 2007

CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005					CONSTRUCTION YEAR 2006					CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN	62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62594	C-D RAMPS	83RD TO 79TH	JAN. 2004	TY LIN	62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62585	S.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT	62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62590	C-D RAMPS	71ST TO 67TH	APR. 2004	CTE/E&K	62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K	62694	N.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62586	FRONTAGE ROADS & RAMPS	57TH TO 47TH	JULY 2004	CTE	62695	S.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62584	N.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT										
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE										
62693	FRONTAGE ROADS & RAMPS	63RD TO 59TH	JAN. 2005	CTE										



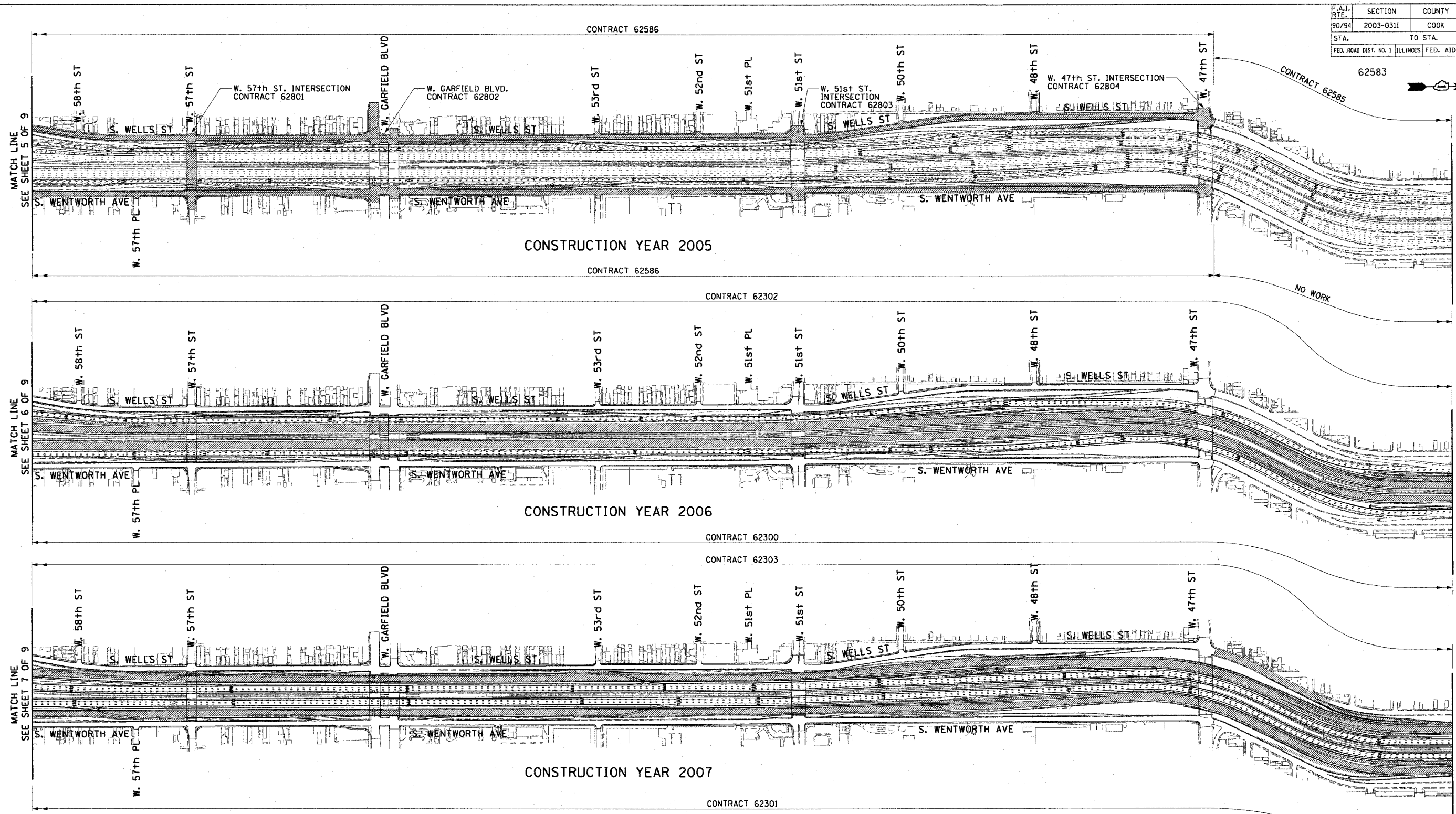
LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 CONSTRUCTION STAGING AND
 TRAFFIC CONTROL OVERVIEW

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	41
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005					CONSTRUCTION YEAR 2006					CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN	62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62594	C-D RAMP	83RD TO 79TH	JAN. 2004	TY LIN	62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62585	S.B. RAMP	39TH TO 31ST	JULY 2004	BOWMAN BARRETT	62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62590	C-D RAMP	71ST TO 67TH	APR. 2004	CTE/E&K	62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K	62694	N.B. RAMP & C-D RAMP	71ST SOUTH	JUNE 2005	TY LIN					
62586	FRONTAGE ROADS & RAMP	57TH TO 47TH	JULY 2004	CTE	62695	S.B. RAMP & C-D RAMP	71ST SOUTH	JUNE 2005	TY LIN					
62584	N.B. RAMP	39TH TO 31ST	JULY 2004	BOWMAN BARRETT										
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE										
62693	FRONTAGE ROADS & RAMP	63RD TO 59TH	JAN. 2005	CTE										

LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

REVISIONS	
NAME	DATE

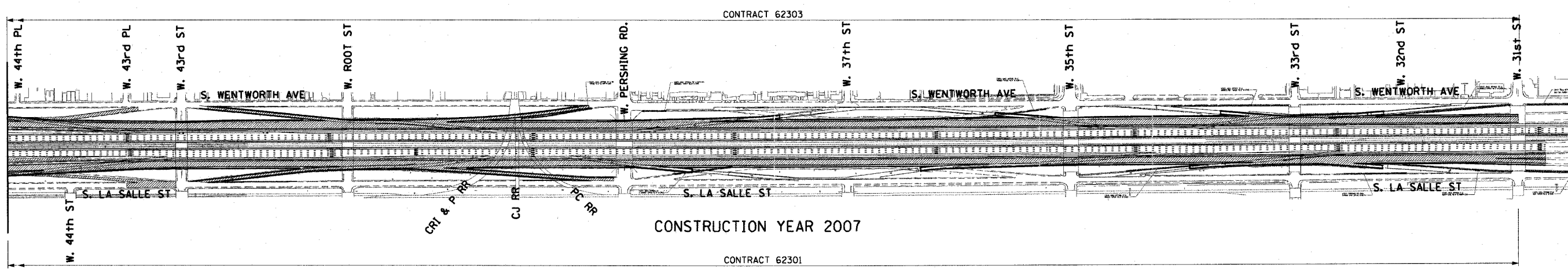
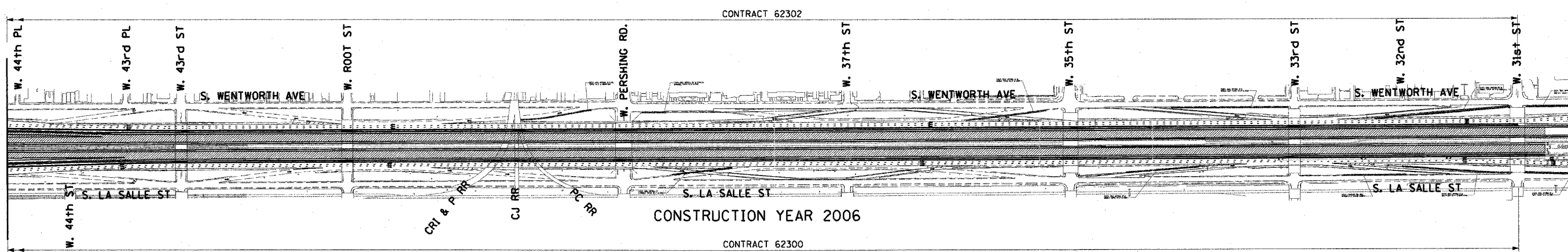
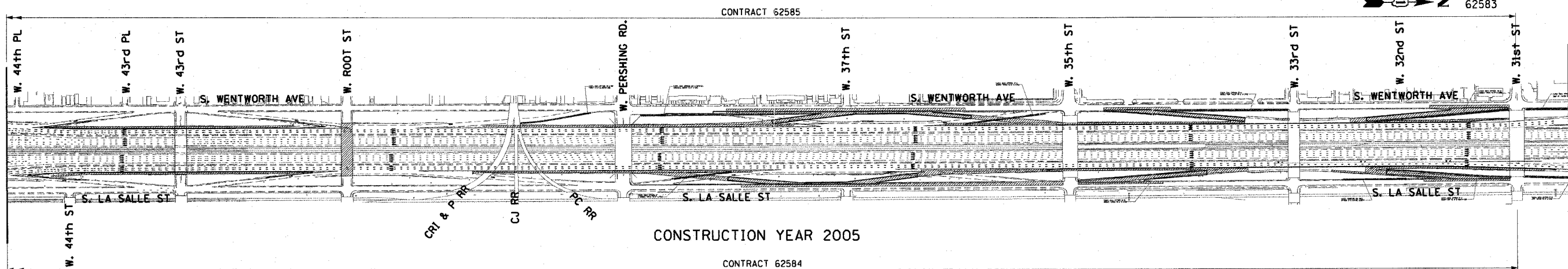
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW



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F.A.I. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	42
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62583



CONTRACT SUMMARY

CONSTRUCTION YEAR 2004/2005					CONSTRUCTION YEAR 2006					CONSTRUCTION YEAR 2007				
CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER	CONTRACT NUMBER	DESCRIPTION	LOCATION	LETTING DATE	DESIGN ENGINEER
62591	STORM SEWER JACKING	95TH TO 67TH	SEPT. 2003	TY LIN	62300	N.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62301	N.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62594	C-D RAMPS	83RD TO 79TH	JAN. 2004	TY LIN	62302	S.B. EXPRESS LANES	71ST TO 31ST	SEPT. 2005	CTE/B&B	62303	S.B. LOCAL LANES	71ST TO 31ST	SEPT. 2006	CTE/B&B
62585	S.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT	62592	N.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62304	N.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62590	C-D RAMPS	71ST TO 67TH	APR. 2004	CTE/E&K	62593	S.B. LANES 4,5	71ST SOUTH	SEPT. 2005	TY LIN	62305	S.B. LANES 1,2,3	71ST SOUTH	SEPT. 2006	TY LIN
62587	WELLS ST. REALIGNMENT	65TH	APR. 2004	CTE/E&K	62694	N.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62586	FRONTAGE ROADS & RAMPS	57TH TO 47TH	JULY 2004	CTE	62695	S.B. RAMPS & C-D RAMPS	71ST SOUTH	JUNE 2005	TY LIN					
62584	N.B. RAMPS	39TH TO 31ST	JULY 2004	BOWMAN BARRETT										
62589	SKYWAY INTERCHANGE	67TH TO 63RD	APR. 2004	CTE										
62693	FRONTAGE ROADS & RAMPS	63RD TO 59TH	JAN. 2005	CTE										



LEGEND:
 AREA UNDER CONSTRUCTION
 TRAFFIC LANES DURING CONSTRUCTION

REVISIONS	
NAME	DATE

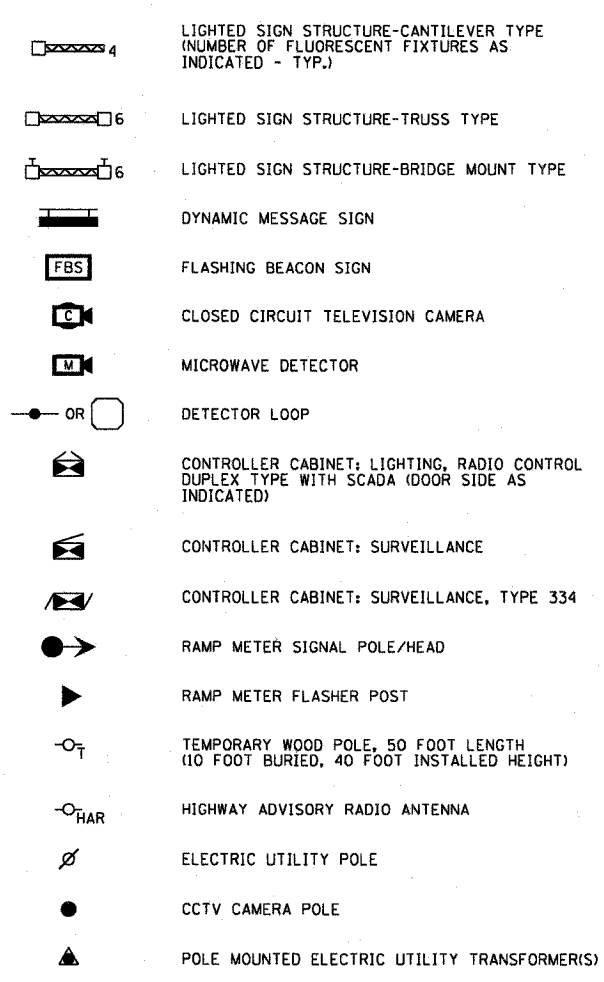
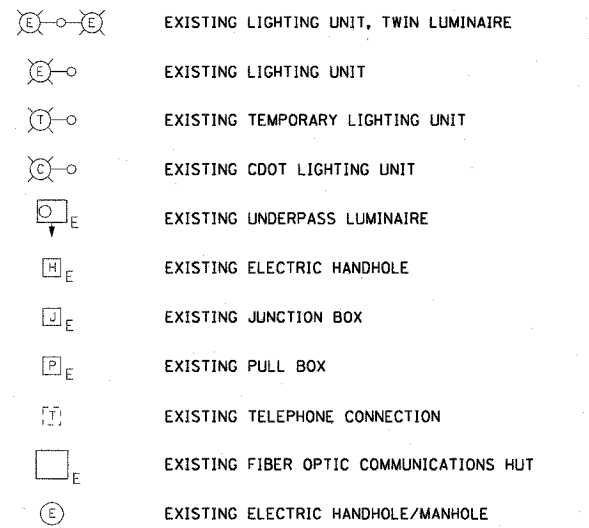
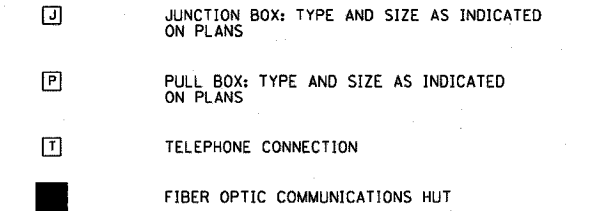
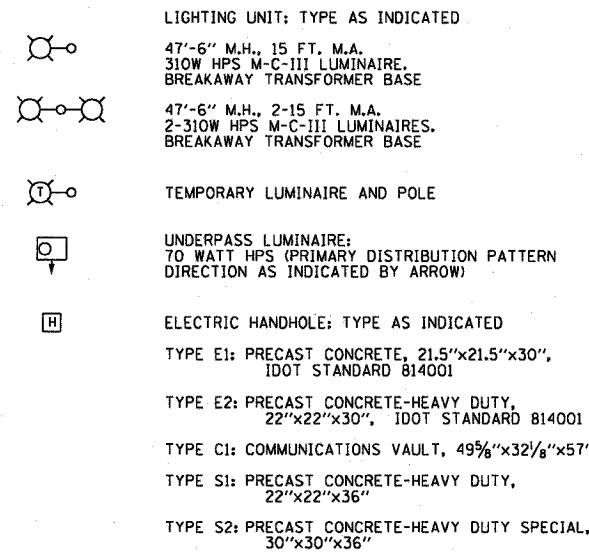
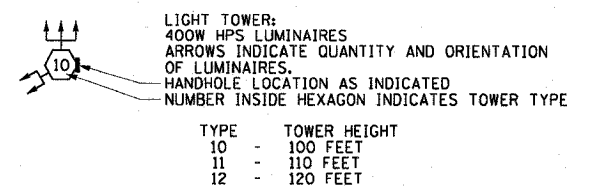
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 CONSTRUCTION STAGING AND
 TRAFFIC CONTROL OVERVIEW

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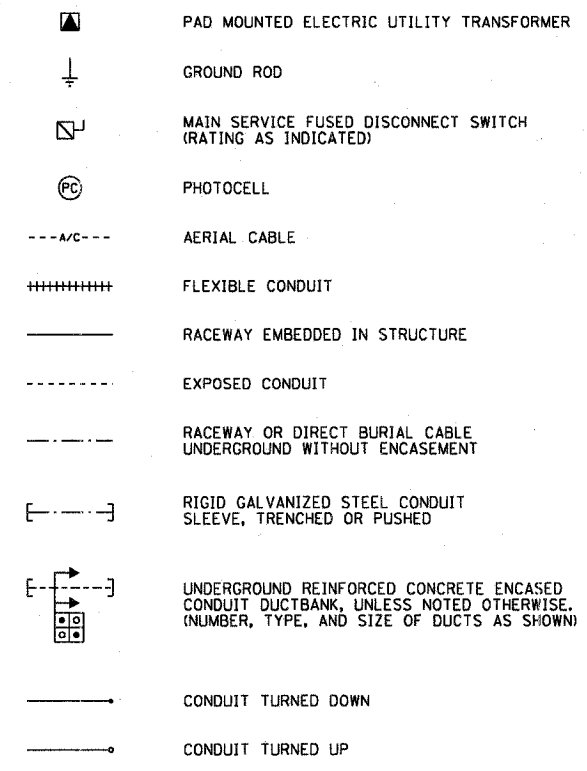
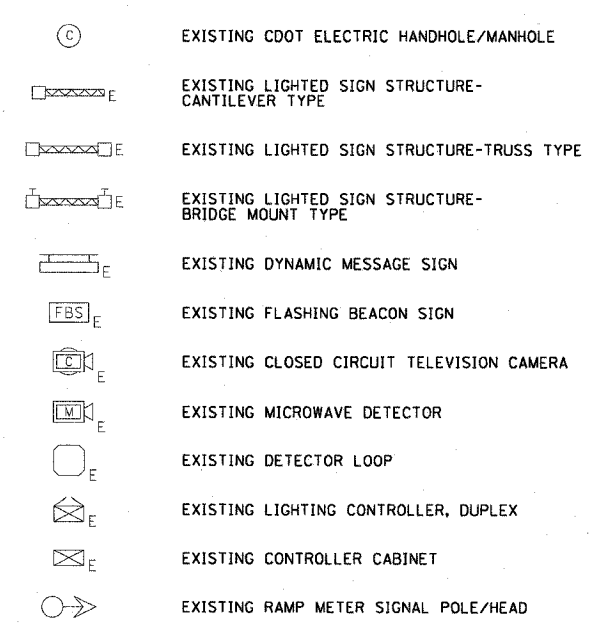
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F.A.I. REE:	SECTION	COUNTY	TOTAL SHEET NO.
90/94	2003-0311	COOK	976
STA.	TO STA.		43
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

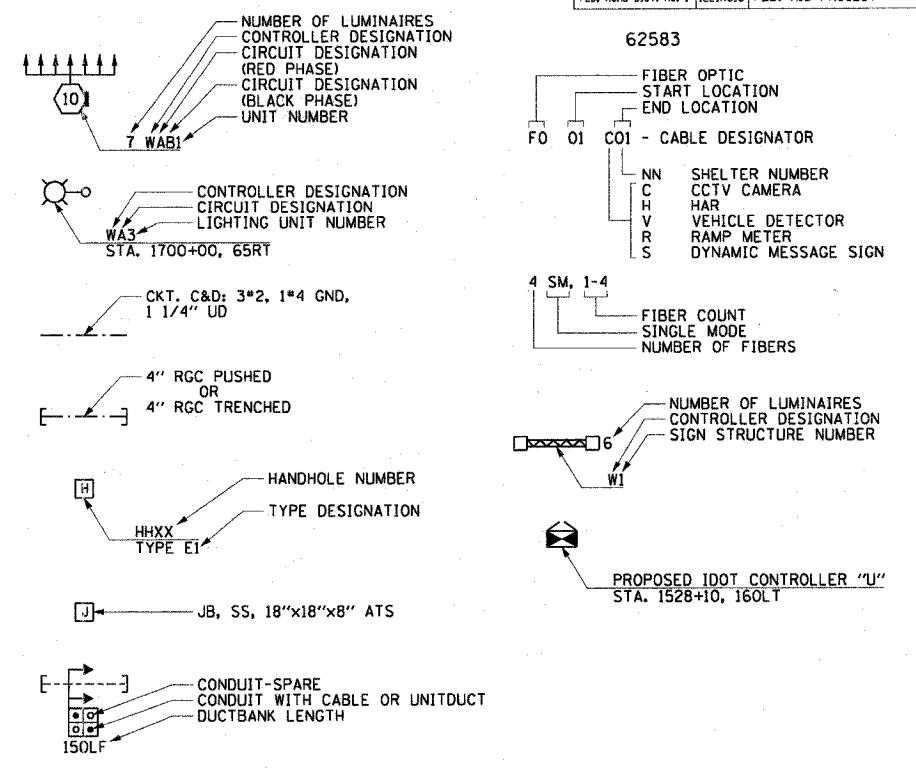
ELECTRICAL SYMBOLS FOR PROPOSED WORK



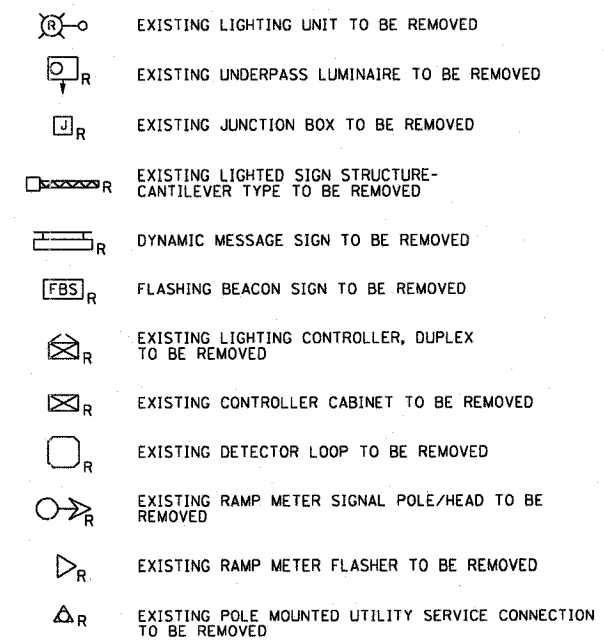
ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS



GENERAL ELECTRICAL CALLOUTS



TYPICAL EXISTING TO BE REMOVED SYMBOLS



ME-01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ELECTRICAL SYMBOLS

SCALE: NOT TO SCALE
DATE: October 29, 2004

DRAWN BY: CJM
CHECKED BY: WDS

ABBREVIATIONS

A	AMPERES	ID	INNERDUCT	UNO	UNLESS NOTED OTHERWISE
AC	ALTERNATING CURRENT	IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION	V	VOLT
A/C	AERIAL CABLE	IN	INCHES	W	WATT, WIRE
AFG	ABOVE FINISHED GRADE	J, JB	JUNCTION BOX	WB	WESTBOUND
ANT	ANTENNA	KVA	KILOVOLT-AMPERE	WM	WALL MOUNTED
AOBE	AS ORDERED BY THE ENGINEER	KW	KILOWATT	WP	WOOD POLE
ASPH	ASPHALT	LF	LINEAR FEET	XFMR	TRANSFORMER
ATS	ATTACHED TO STRUCTURE	LP	LIGHT POLE		
AVE	AVENUE	L SUM	LUMP SUM		
BHD	BULKHEAD	LT	LEFT		
BIT	BITUMINOUS	M	METER		
BLK	BLOCK	MA	MAST ARM		
BR	BRIDGE	MD	MICROWAVE DETECTOR		
C	CONDUIT, CONDUCTOR	MM	MULTI-MODE		
CAB	CABINET	MW	MESSENGER WIRE		
CBW	CONCRETE BLOCK WALL	NB	NORTHBOUND		
CC	COMMUNICATIONS CENTER	NIC	NOT IN CONTRACT		
CCTV	CLOSED CIRCUIT TELEVISION	NM	NONMETALLIC		
CDOT	CDOT-CHICAGO DEPARTMENT OF TRANSPORTATION	NO	NUMBER		
CKT	CIRCUIT	NTS	NOT TO SCALE		
CLF	CHAIN LINK FENCE	OH	OVERHEAD		
CNC	COILABLE NONMETALLIC CONDUIT	PEC	SCHEDULE 80 PVC CONDUIT		
COMM	COMMUNICATIONS	PH	PHASE		
CONC	CONCRETE	PL	PROPERTY LINE		
CONST	CONSTRUCTION	PIN	PROJECT IDENTIFICATION NUMBER		
CORR	CORRUGATED	PNL	PANEL		
CW	CONCRETE WALL	PROP	PROPOSED		
☉	CENTERLINE	PTZ	PAN-TILT-ZOOM		
DB	DIRECT BURIED	PVC	POLYVINYL CHLORIDE		
DC	DIRECT CURRENT	PVCC	POLYVINYL CHLORIDE COATED		
DF	DARK FIBER	R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED UNO)		
DIA	DIAMETER	RC	REINFORCED CONCRETE		
DMS	DYNAMIC MESSAGE SIGN	RD	ROAD		
DWG	DRAWING(S)	RGC	RIGID GALVANIZED STEEL CONDUIT		
E	EXISTING UNIT TO REMAIN	RM	RAMP METER		
EA	EACH	ROW	RIGHT OF WAY		
EB	EASTBOUND	RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED		
ECA	ELECTRIC CABLE ASSEMBLY	RT	RIGHT		
EL	ELEVATION	RW	RETAINING WALL		
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST, OR MAST ARM)	SB	SOUTHBOUND		
EOR	EDGE OF ROADWAY	SH	SHEET		
ER	EXISTING RELOCATED UNIT	SM	SINGLE MODE		
ET	EXISTING TEMPORARY UNIT TO REMAIN OR MODIFIED	SS	STAINLESS STEEL		
ETP	EMERGENCY TRAFFIC PATROL	ST	STREET		
ETR	EXISTING TEMPORARY RELOCATED UNIT	STA	STATION		
EXCAV	EXCAVATION	STD	STANDARD		
F, FT	FOOT, FEET	STL	STEEL		
FDN	FOUNDATION	STRUCT	STRUCTURE		
FO	FIBER OPTIC	SURF	SURFACE		
GM	GROUND MOUNTED	SURV	SURVEILLANCE		
GND, GRD	GROUND	SW	SIDEWALK		
GR	GUARD RAIL	T	TEMPORARY		
GSC	GALVANIZED STEEL CONDUIT	TAN	TANGENT		
HAR	HIGHWAY ADVISORY RADIO	TC	TRAY CABLE		
HD	HEAVY DUTY	TEL	TELEPHONE		
HH	HANDHOLE	TS	TRAFFIC SIGNAL		
HPS	HIGH PRESSURE SODIUM	TSC	TRAFFIC SYSTEMS CENTER		
HYD	HYDRANT	TYP	TYPICAL		
I	INTERSTATE	UD	UNIT DUCT		
		UND	UNDERDRAIN		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	44
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62583

NOTES:

- LIGHTING AND SURVEILLANCE RACEWAYS SHALL BE INSTALLED IN COMMON TRENCHES WHEREVER POSSIBLE. QUANTITIES ALLOW FOR THE CONSTRUCTION OF ONE TRENCH IN THE YEAR THE LIGHTING RACEWAYS ARE SHOWN TO BE INSTALLED AND CONSTRUCTION OF A SECOND PARALLEL TRENCH IN THE YEAR THE COMMUNICATION RACEWAYS ARE INSTALLED. ANY ADDITIONAL TRENCH AND BACKFILL WORK PERFORMED BY THE CONTRACTOR TO FACILITATE INSTALLATION OF LIGHTING AND SURVEILLANCE RACEWAY, DUCTBANKS OR HANDHOLES WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THIS CONTRACT.
- THE CONTRACTOR SHALL COORDINATE WORK WITH THE ROADWAY CONSTRUCTION CONTRACTORS TO MINIMIZE LANE CLOSURES. IT IS THE INTENT OF THIS CONTRACT THAT CONSTRUCTION WORK FOR CONTRACT 62583 WILL BE COORDINATED TO WORK WITHIN THE MAINTENANCE OF TRAFFIC SCHEDULES AND BOUNDARIES OF THE OTHER ROADWAY CONSTRUCTION CONTRACTS TO THE MAXIMUM EXTENT POSSIBLE. COORDINATION WITH THE ROADWAY CONSTRUCTION CONTRACTS SHALL BE THE RESPONSIBILITY OF THE 62583 CONTRACTOR.
- ALL CONDUITS PUSHED UNDER THE DAN RYAN RAMPS OR MAINLINE SHALL BE INSTALLED A MINIMUM OF 66 INCHES BELOW PAVEMENT TO FACILITATE FUTURE IMPROVEMENTS.

GENERAL NOTES:

ROADWAY:

- UTILITY LOCATIONS SHOWN ON THESE PLANS MAY NOT BE CORRECT OR COMPLETE. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES OF THE CITY OF CHICAGO INCLUDING CTA. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "CUAN" (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED). CONTACT THE DEPARTMENT OF WATER MANAGEMENT PERMIT SECTION AT (312) 747-7893 FOR WATER AND SEWER LOCATIONS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED FENCING OR WHERE PROPOSED FENCING TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS SHALL REMAIN UNDISTURBED.
- ALL ELEVATIONS SHOWN ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.
- THE RAMP ALIGNMENT BETWEEN 76TH STREET AND 79TH STREET IS STILL BEING FINALIZED. FINAL WIRING BETWEEN LIGHT TOWERS IS NOT SHOWN ON THE PLANS BUT ANTICIPATED MATERIALS ARE INCLUDED IN THE SUMMARY OF QUANTITIES. PLANS DEPICTING THE FINAL LIGHT TOWER LOCATIONS AND PROPOSED WIRING WILL BE PROVIDED TO THE CONTRACTOR AT THE PRECONSTRUCTION MEETING.

ME-02

REVISIONS	
NAME	DATE
REVISION	1/21/05
REVISION	2/11/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ELECTRICAL ABBREVIATIONS
AND GENERAL NOTES

SCALE: NOT TO SCALE DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS



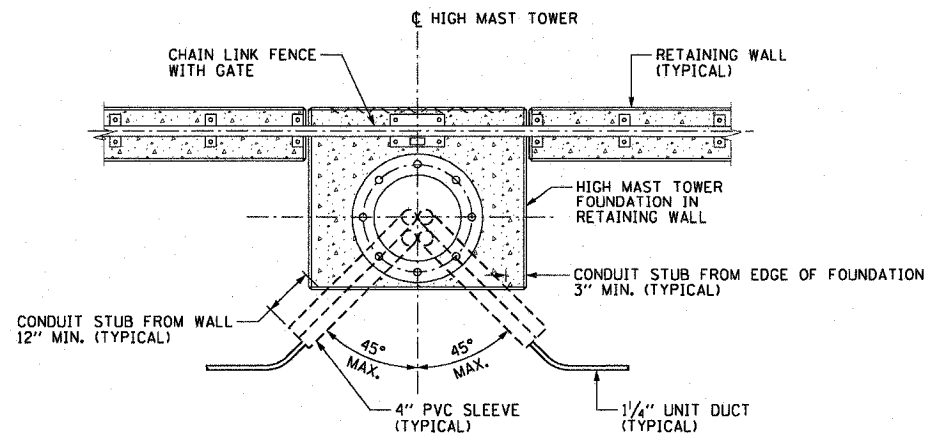
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	45
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

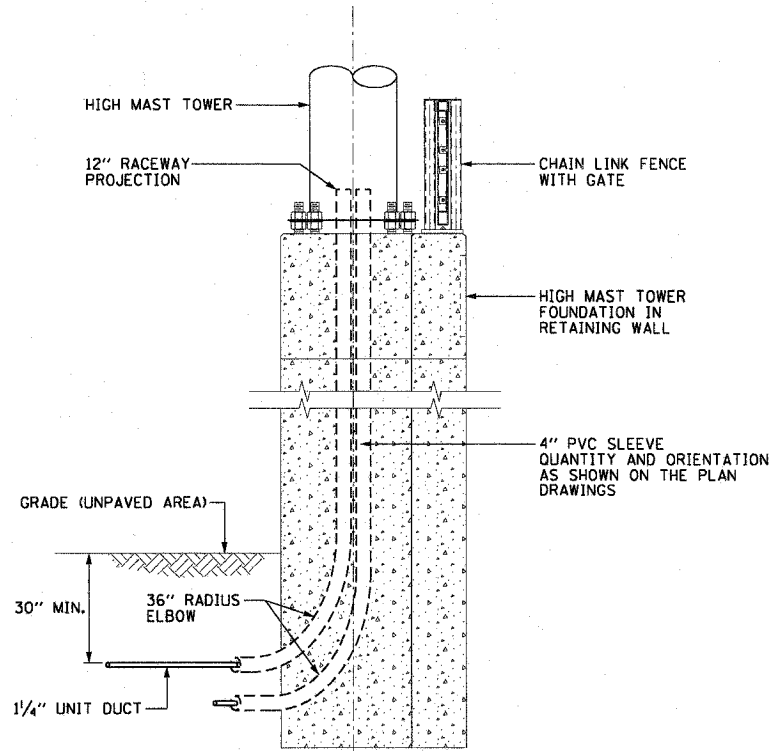
62583

NOTES:

1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE HIGH MAST TOWER FOUNDATION SCHEDULES FOR HIGH MAST LIGHT TOWER FOUNDATION LOCATIONS.



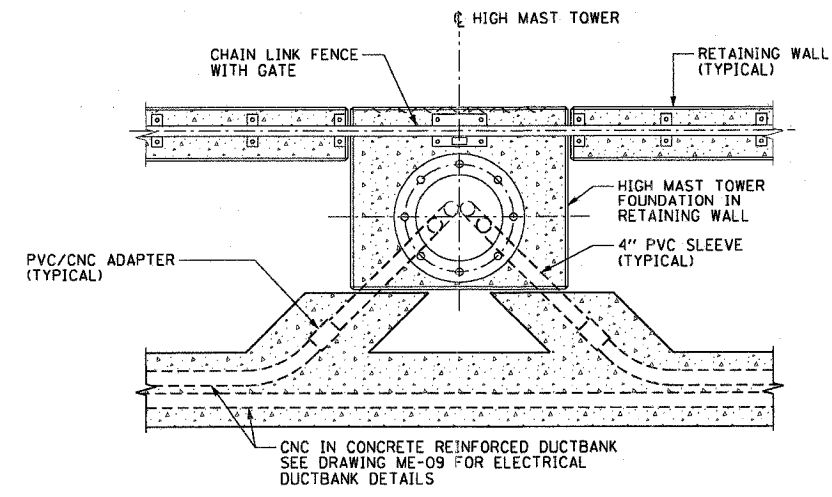
TOP VIEW



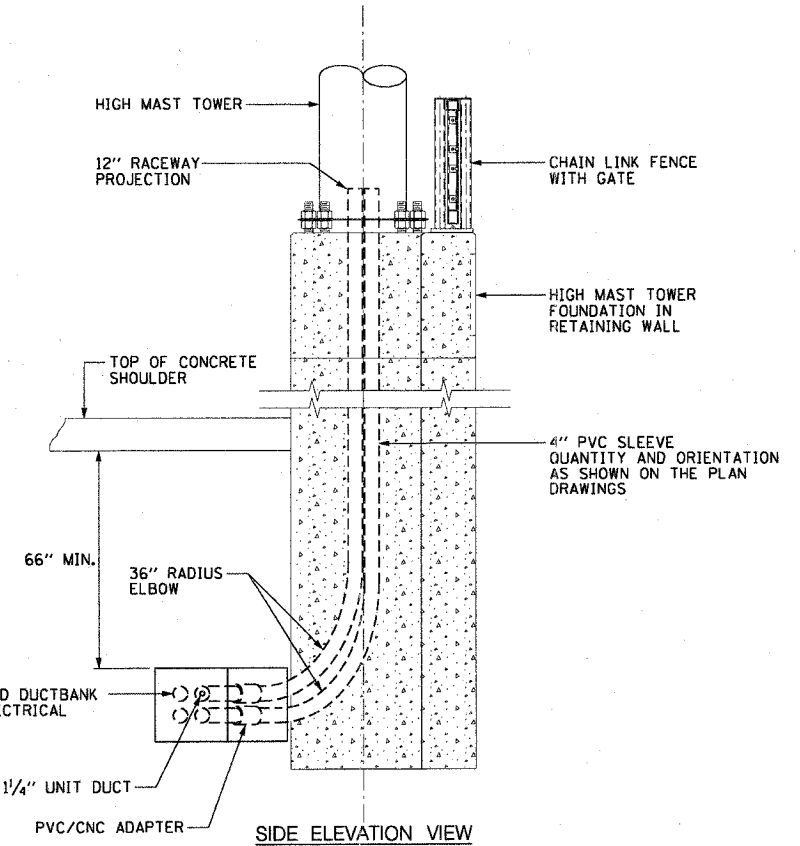
SIDE ELEVATION VIEW

TYPICAL CONDUIT INSTALLATION DETAIL FOR ROUTING UNIT DUCT IN GRADE TO FOUNDATION IN RETAINING WALL NOT TO SCALE

ME-03A



TOP VIEW



SIDE ELEVATION VIEW

TYPICAL CONDUIT INSTALLATION DETAIL FOR ROUTING CONCRETE DUCTBANK UNDER PAVEMENT TO FOUNDATION IN RETAINING WALL NOT TO SCALE

ME-03B

ME-03

REVISIONS	
NAME	DATE

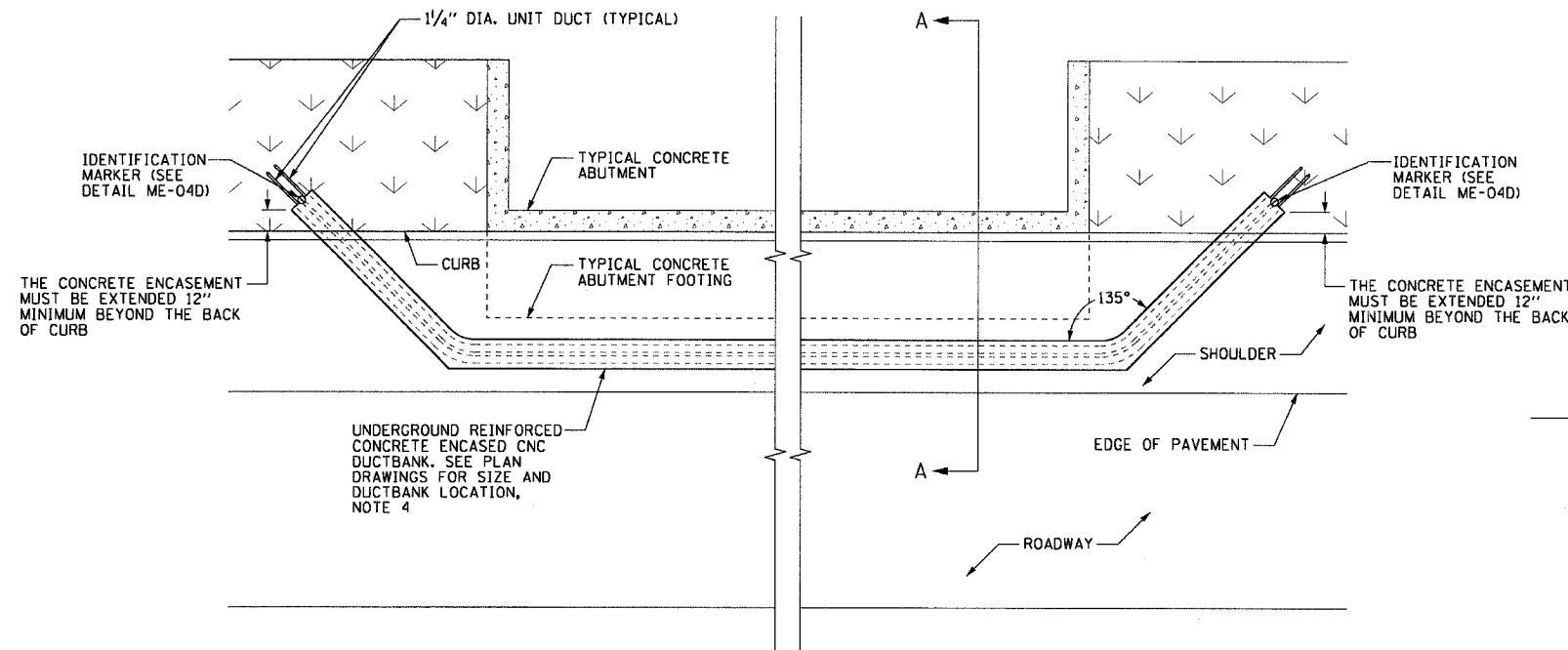
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

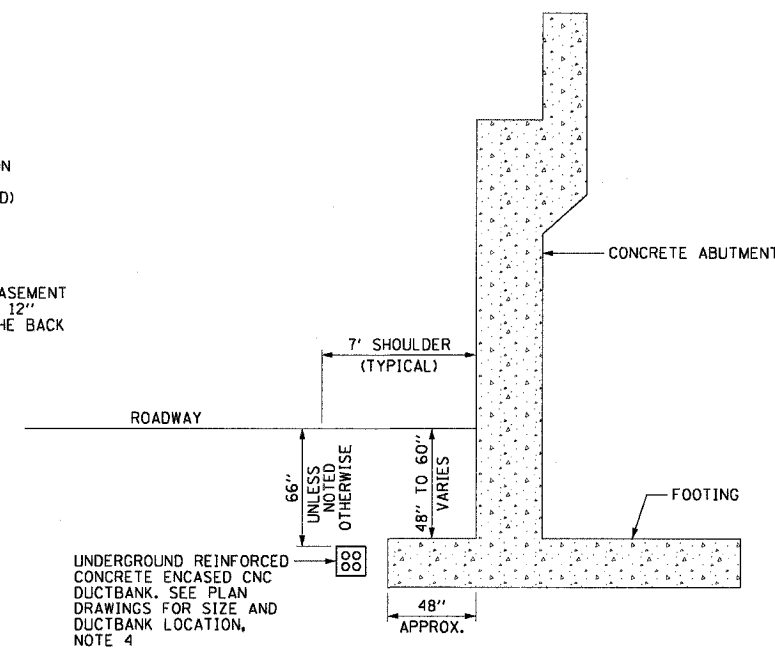
62583

NOTES:

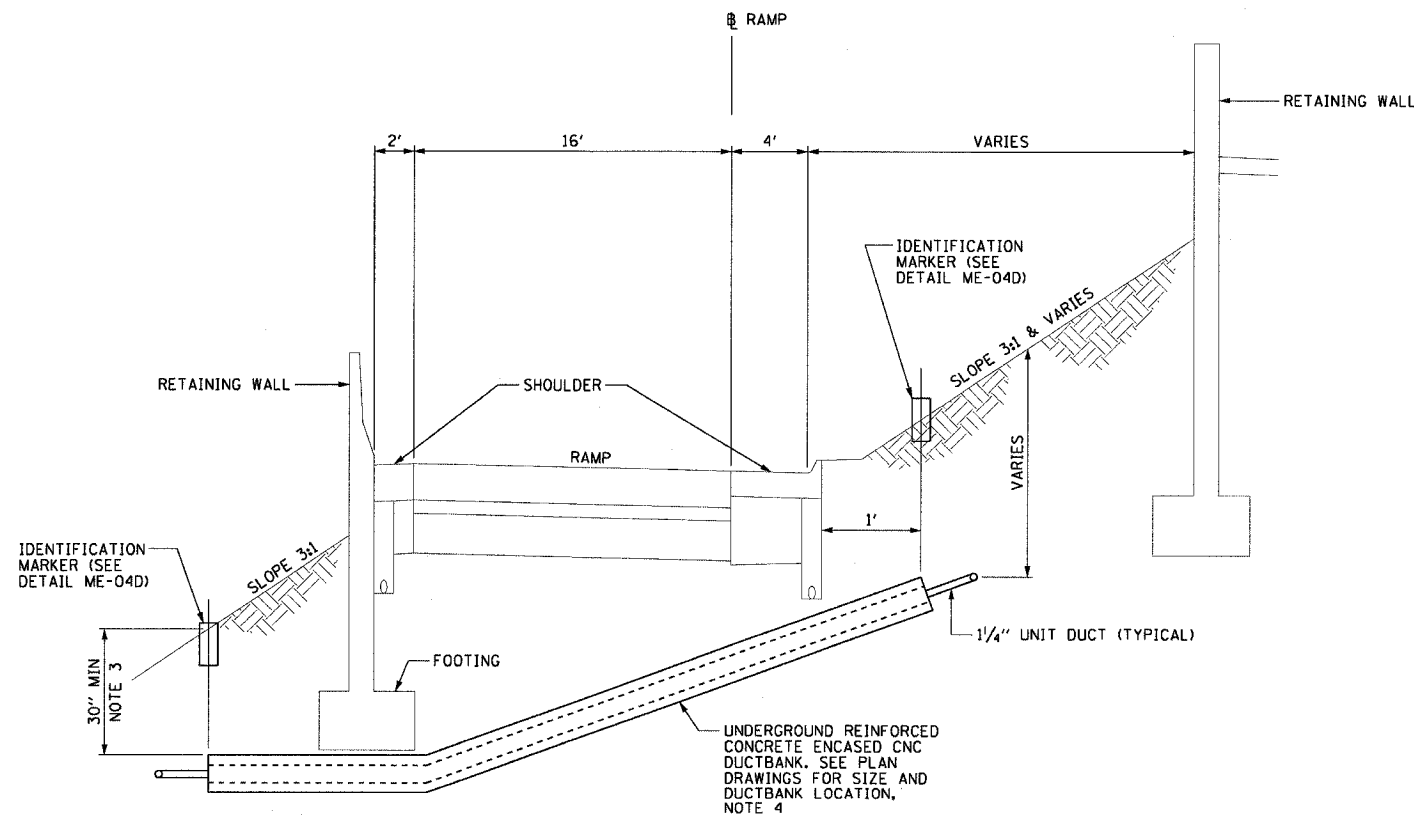
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
- DUCTBANK DEPTH MUST BE ADJUSTED SUCH THAT THE TOP OF CONCRETE ENCASEMENT IS INSTALLED UNDER THE RETAINING WALL FOOTING. THE DUCTBANK DEPTH MUST BE 30 INCHES MINIMUM.
- SEE DRAWING ME-11 FOR ELECTRICAL CONCRETE DUCTBANK DETAILS.
- SEE PLAN DRAWINGS FOR ANY DEVIATIONS IN DUCTBANK DEPTH.



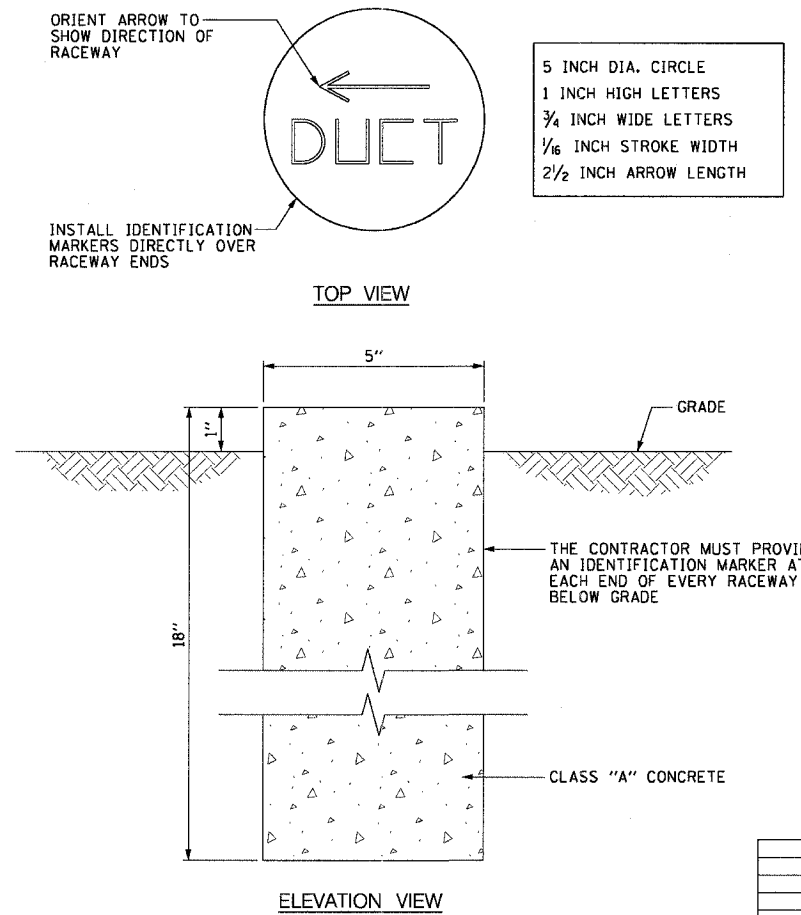
ME-04A DUCTBANK ROUTING AROUND ABUTMENT
SCALE: 1/4" = 1'-0"
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT



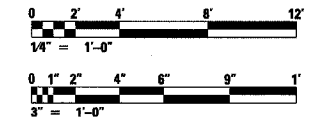
ME-04B DUCTBANK INSTALLATION DETAIL A-A
SCALE: 1/4" = 1'-0"
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT



ME-04C TYPICAL CONCRETE ENCASED CNC UNDER RAMP INSTALLATION DETAIL
NOT TO SCALE



ME-04D IDENTIFICATION MARKER DETAIL
SCALE: 3" = 1'-0"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

DUCTBANK INSTALLATION DETAILS
UNDER RAMPS AND AROUND
ABUTMENTS

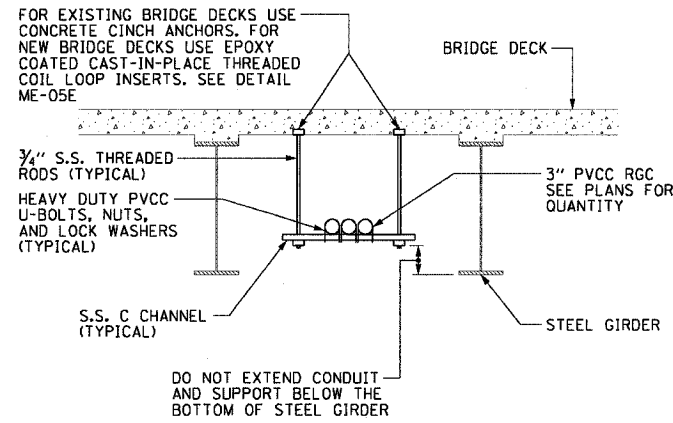
SCALE: AS SHOWN DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	47
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

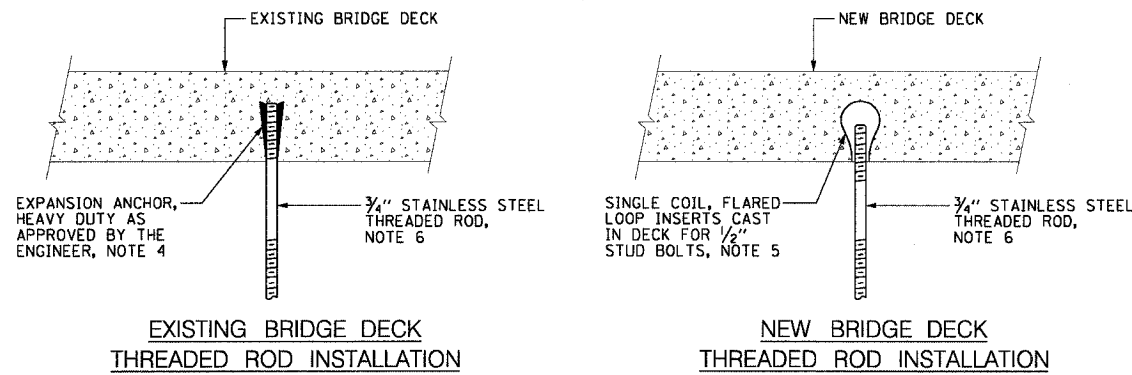
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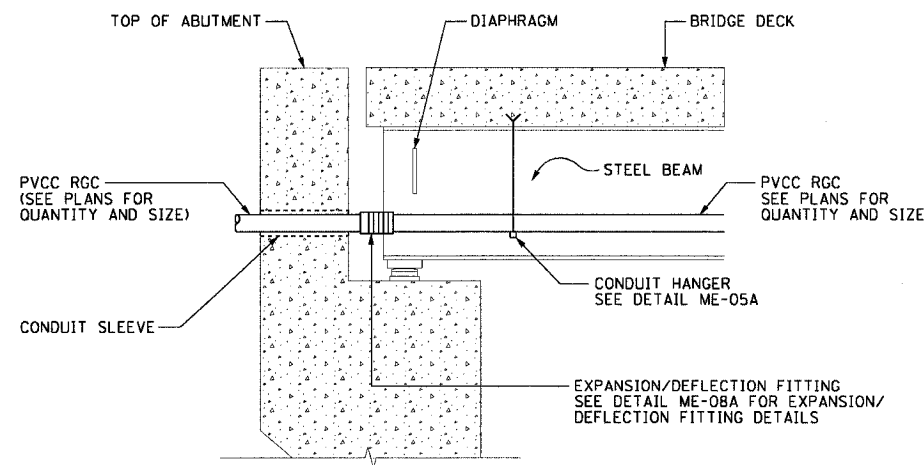
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
- ALL MOUNTING AND INSTALLATION HARDWARE FOR PVCC RGC MUST BE PVC COATED.
- THE CONTRACTOR MUST USE APPROVED HEAVY DUTY EXPANSION ANCHORS WHEN PENDANT MOUNTING THREADED RODS TO AN EXISTING BRIDGE DECK.
- THE CONTRACTOR MUST USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN PENDANT MOUNTING THREADED RODS TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS WITH THE BRIDGE DECK CONTRACTOR.
- THE CONTRACTOR MUST COORDINATE THREADED ROD END SIZES WITH THE LUMINAIRE AND VIBRATION DAMPER MANUFACTURERS.
- 1" DIAMETER LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 3'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 3'-0" OF FLEXIBLE LIQUID TIGHT FLEXIBLE METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- SEE DRAWINGS ME-06 AND ME-07 FOR UNDERPASS LIGHTING INSTALLATION DETAILS.
- THE LAST FOUR FEET OF UNIT DUCT(S) IN GRADE AND ONE ADDITIONAL FOOT OF UNIT DUCT(S) ABOVE GRADE SHALL BE ENCASED IN REINFORCED CONCRETE AS SHOWN. THE CONCRETE ENCASED UNIT DUCT SHALL BE INCLUDED FOR PAYMENT UNDER THE APPROPRIATE "CONDUIT ENCASED, REINFORCED CONCRETE" PAY ITEM. ALLOW FIVE FEET FOR EACH LOCATION. THE CNC MUST BE ENCASED IN THE REINFORCED CONCRETE AS SHOWN ON DETAIL ME-11A.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE 3" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.



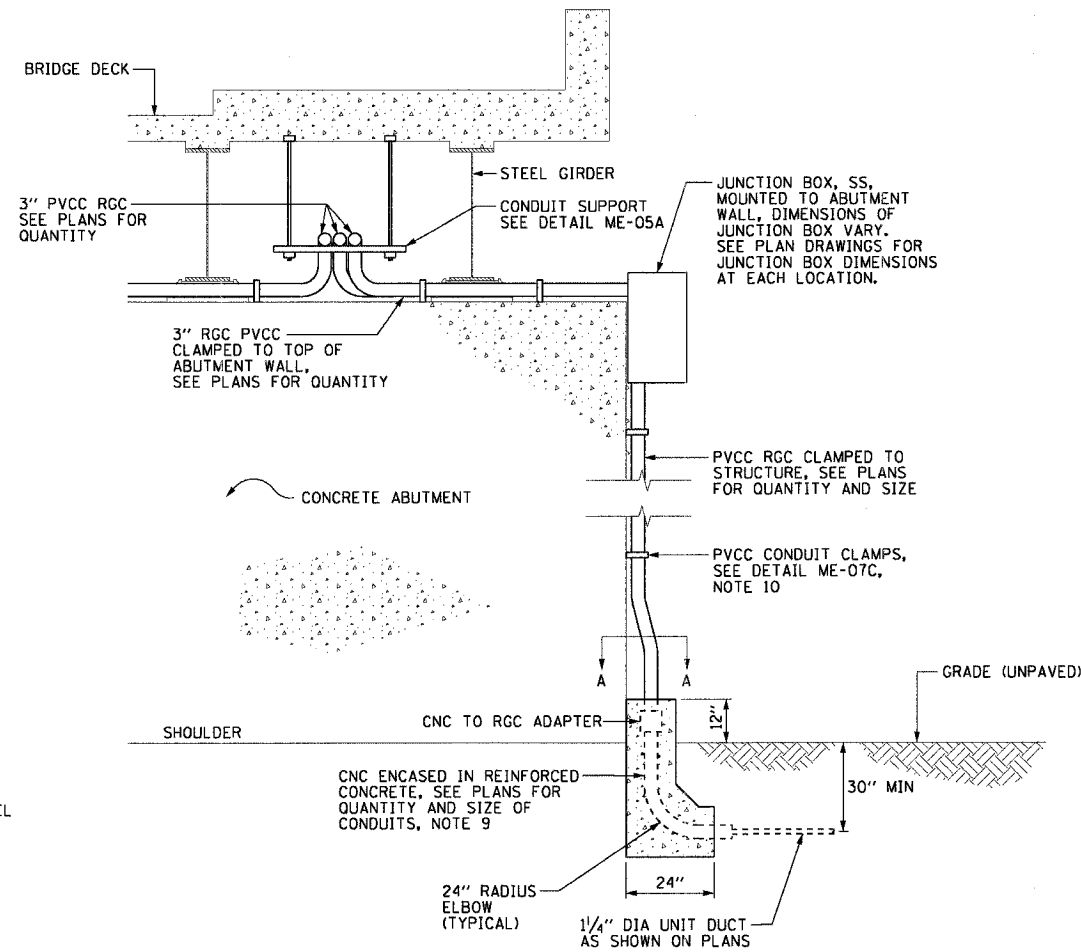
ME-05A
TYPICAL CONDUIT SUPPORT
ATTACHED TO BRIDGE DECK DETAIL
SCALE: 1/2" = 1'-0"



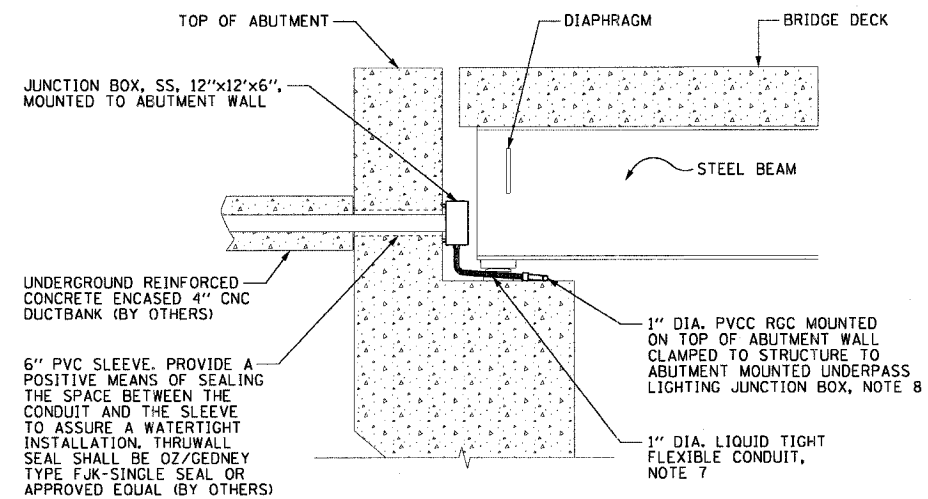
ME-05E
ANCHOR DETAILS
NOT TO SCALE



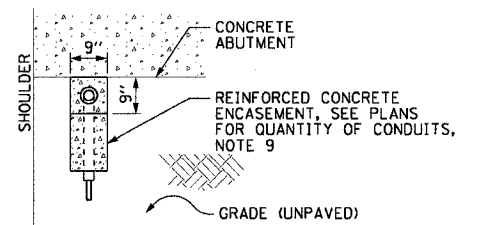
ME-05B
TYPICAL CONDUIT INSTALLATION
THROUGH ABUTMENT WALL
SCALE: 1/2" = 1'-0"
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT



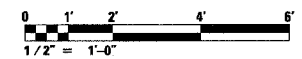
ME-05C
TYPICAL JUNCTION BOX
ATTACHED TO STRUCTURE DETAIL
SCALE: 1/2" = 1'-0"



ME-05F
TYPICAL CONDUIT INSTALLATION THROUGH
ABUTMENT WALL FOR LIGHTING SERVICE FEED
SCALE: 1/2" = 1'-0"
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT



ME-05D
DETAIL A-A
SCALE: 1/2" = 1'-0"



ME-05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
**CONDUIT ATTACHED TO BRIDGE STRUCTURE
INSTALLATION DETAILS**

SCALE: AS SHOWN
DATE: October 29, 2004
DRAWN BY: CJM
CHECKED BY: WDS

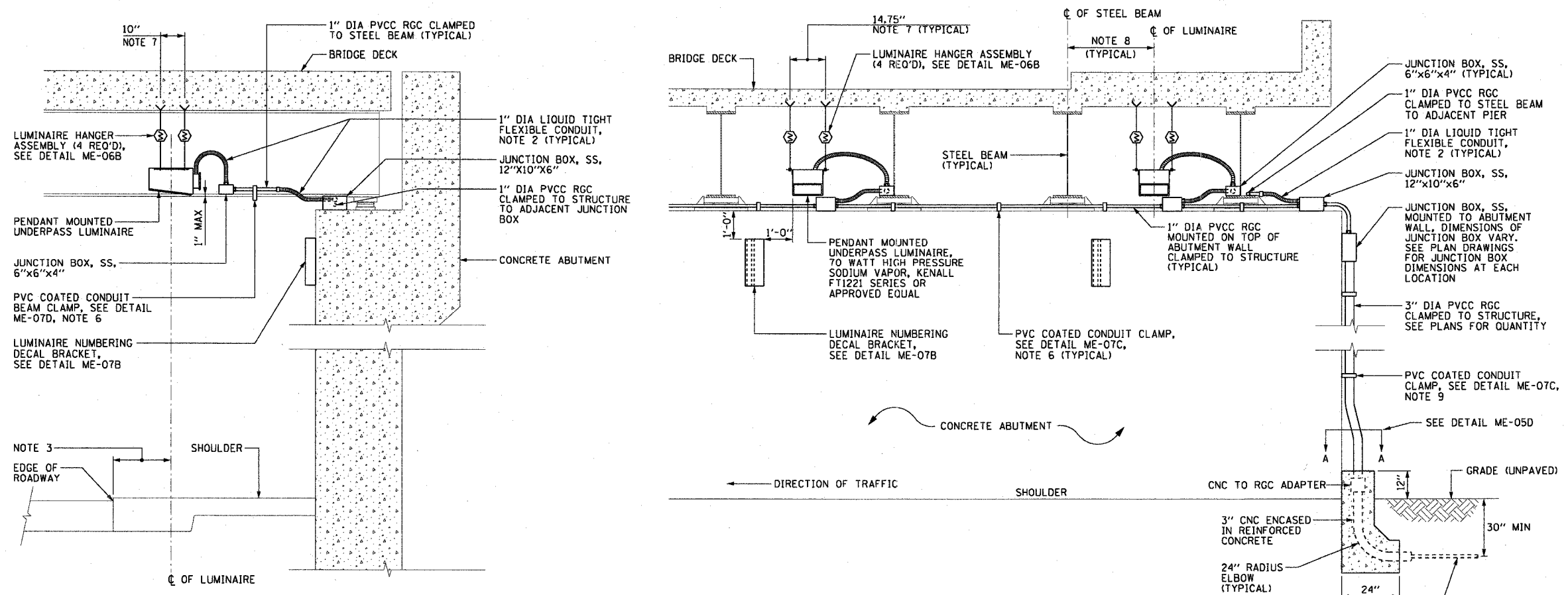
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	48
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

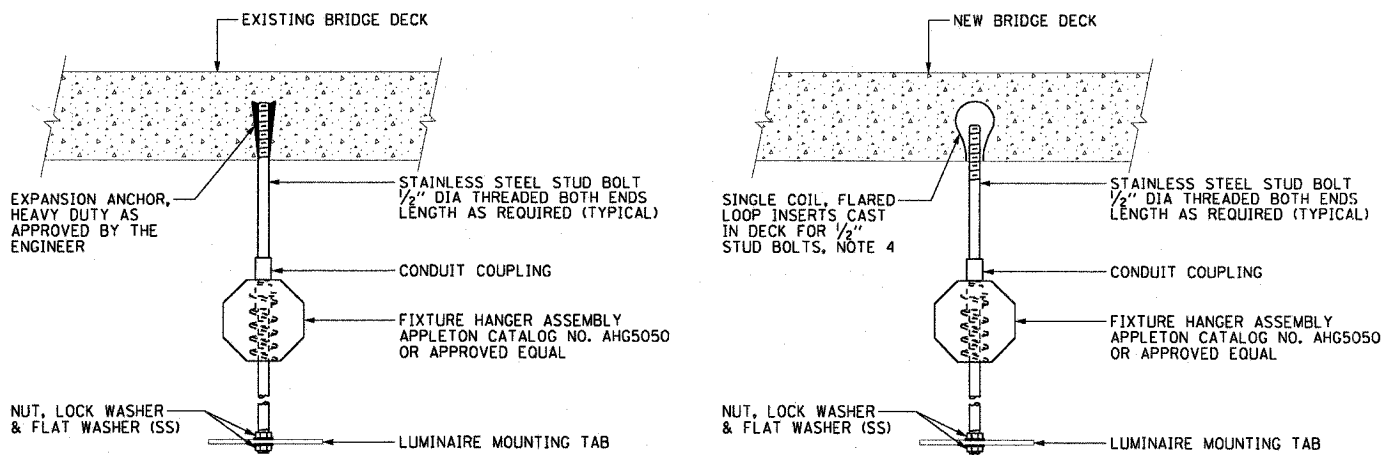
62583

NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 1" DIAMETER LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 3'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 3'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- CENTER UNDERPASS LIGHTING LUMINAIRES 2 FEET TO 5 FEET (VARIES) FROM EDGE OF ROADWAY. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
- THE CONTRACTOR MUST USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN PENDANT MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL ME-06B FOR NEW BRIDGE DECK INSTALLATION DETAIL.
- THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH APPROVED HEAVY DUTY EXPANSION ANCHORS AND/OR SINGLE COIL FLARED LOOP INSERTS AND ALL APPLICABLE HARDWARE WILL BE INCLUDED IN THE COST OF THE "UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR, STAINLESS STEEL HOUSING" PAY ITEM.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- DIMENSIONS SHOWN FOR LUMINAIRE HANGER ASSEMBLIES ARE BASED ON INSTALLING A 70 WATT HPS UNDERPASS LUMINAIRE MANUFACTURED BY KENALL FT1221 SERIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE INSERT/EXPANSION ANCHOR LOCATIONS PRIOR TO BEGINNING ANY UNDERPASS LIGHTING WORK.
- ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.



ME-06A TYPICAL PENDANT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS
SCALE: 1/2" = 1'-0"



ME-06B TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS
NOT TO SCALE (NOTE 5)



ME-06



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

PENDANT MOUNTED UNDERPASS
LUMINAIRE INSTALLATION DETAILS

SCALE: AS SHOWN DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

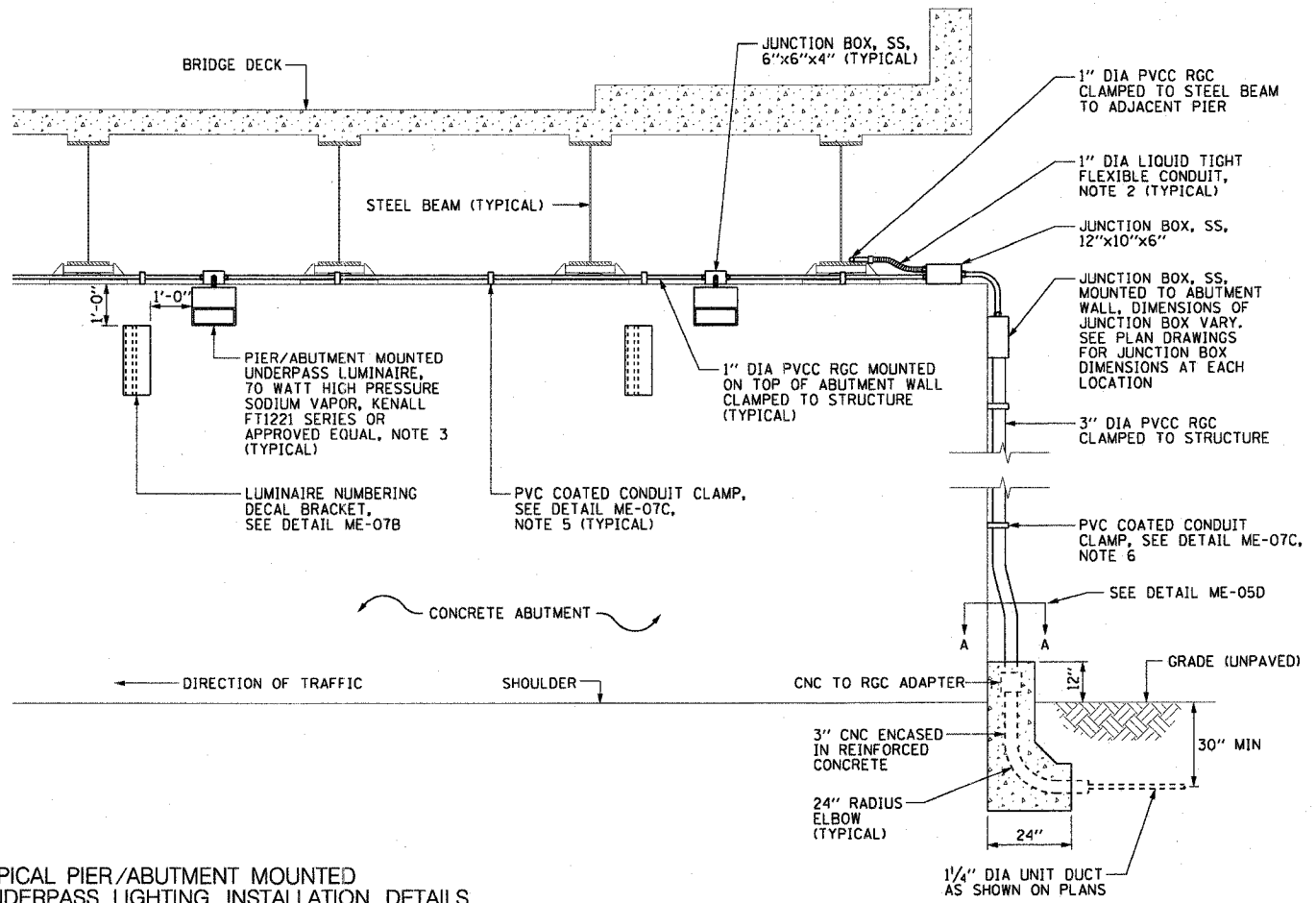
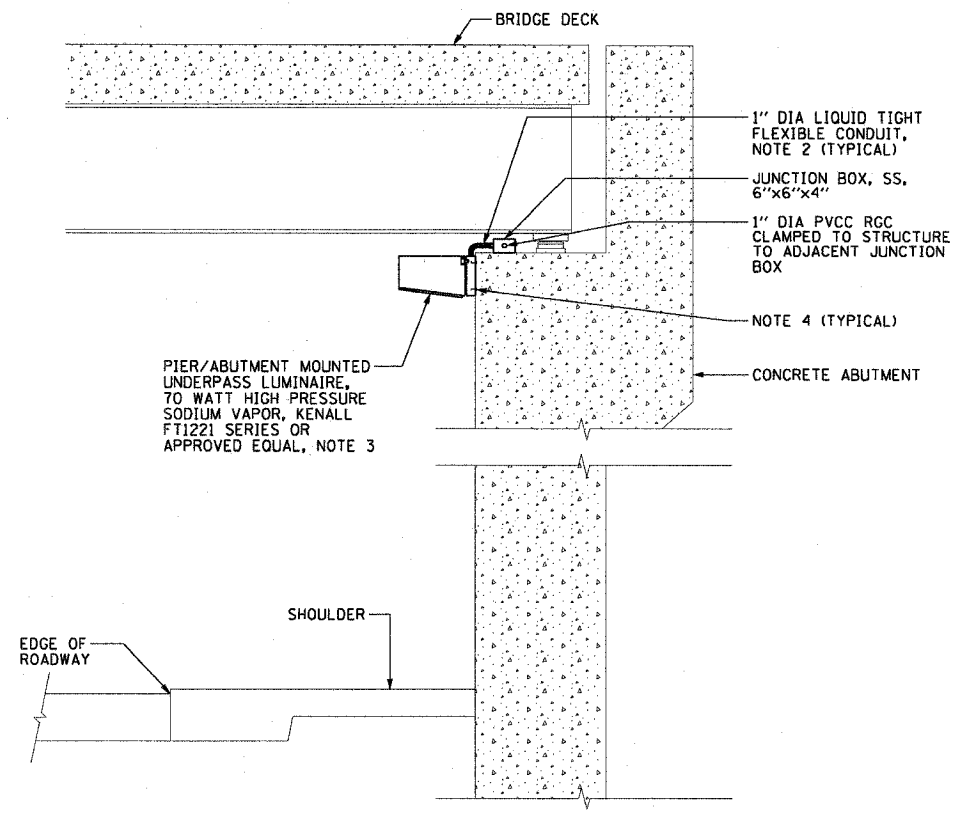
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	49
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

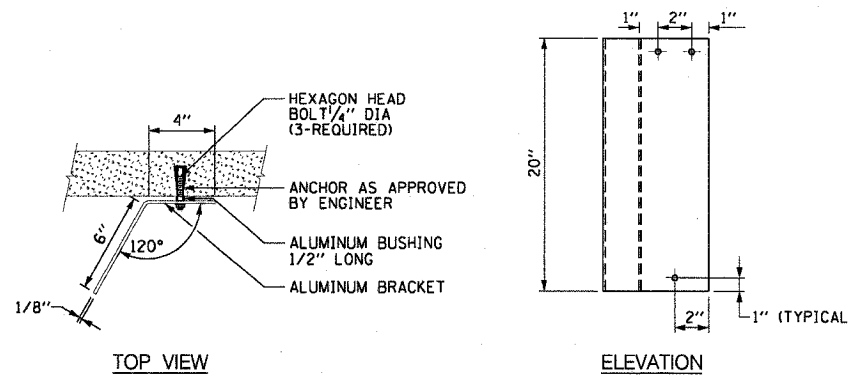
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NOTES:

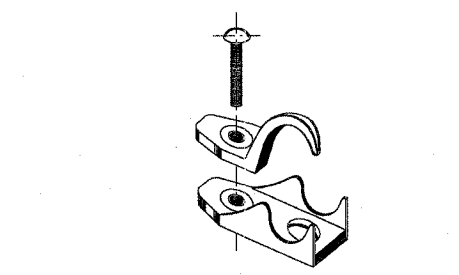
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 1" DIAMETER LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 3'-0". PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES. REFER TO UNDERPASS LIGHTING PLANS FOR UNDERPASS LUMINAIRE LOCATIONS AND SPACING.
- EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
- SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.



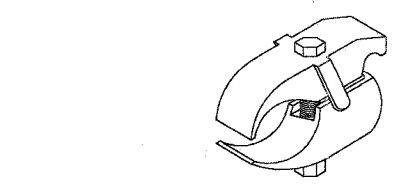
ME-07A TYPICAL PIER/ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS
SCALE: 1/2" = 1'-0"



ME-07B LUMINAIRE NUMBERING DECAL BRACKET
NOT TO SCALE



ME-07C PVC COATED CONDUIT CLAMP
NOT TO SCALE



ME-07D PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE



ME-07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS

SCALE: AS SHOWN
DATE: October 29, 2004

DRAWN BY: CJM
CHECKED BY: WDS

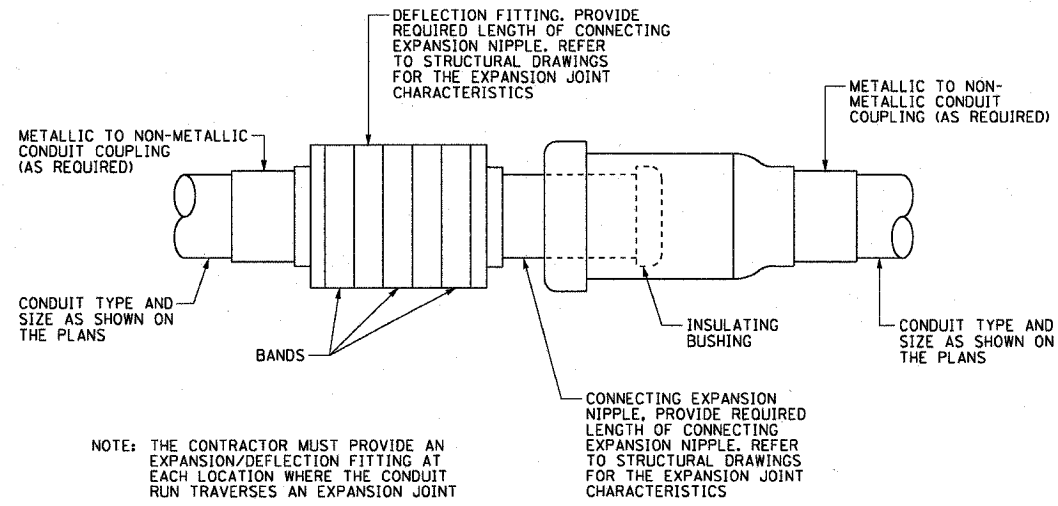
me-07-04-05-06-07-08-09-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	50
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62583

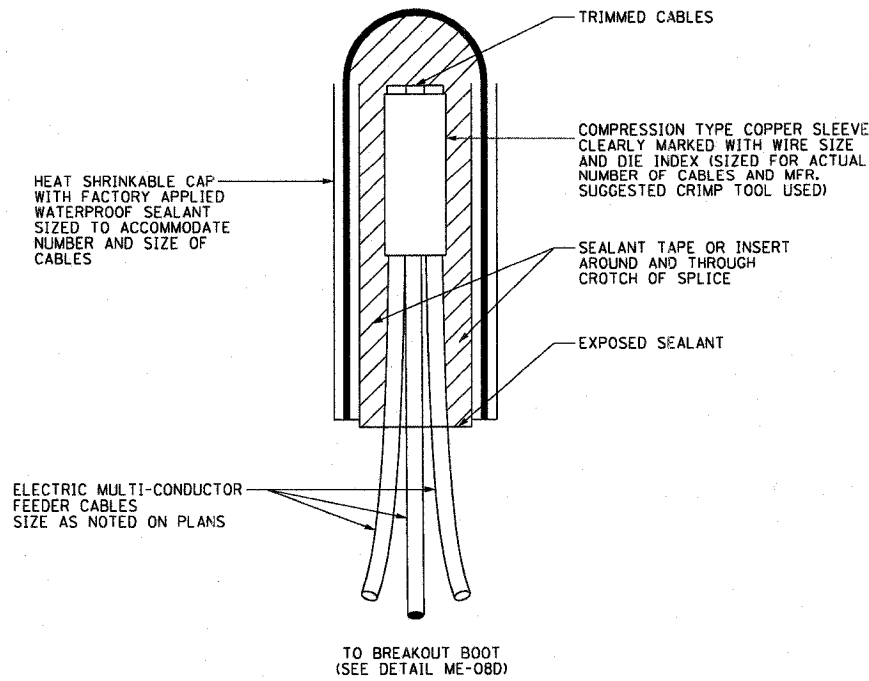
NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



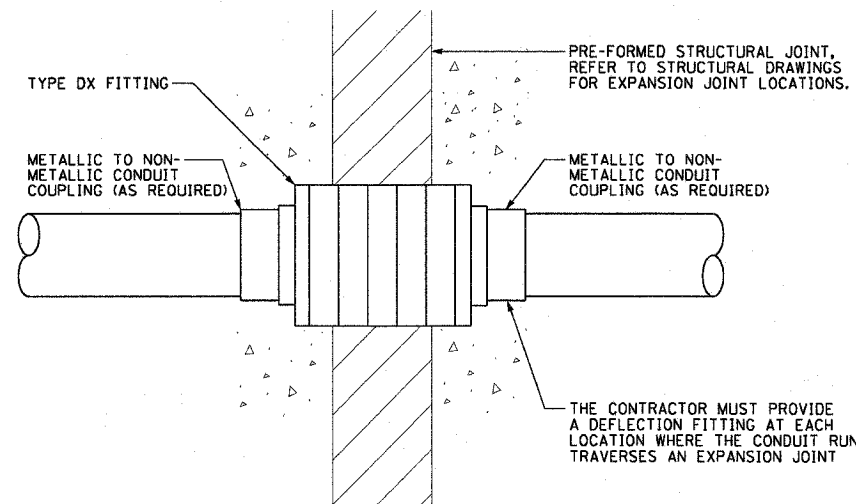
NOTE: THE CONTRACTOR MUST PROVIDE AN EXPANSION/DEFLECTION FITTING AT EACH LOCATION WHERE THE CONDUIT RUN TRAVERSES AN EXPANSION JOINT

ME-08A CONDUIT EXPANSION / DEFLECTION COUPLING DETAIL
EXPANSION/DEFLECTION FITTING, O-Z/GEDNEY AX/DX OR APPROVED EQUAL
NOT TO SCALE

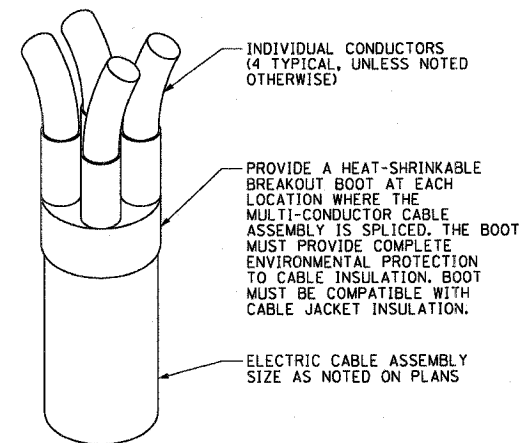


TO BREAKOUT BOOT (SEE DETAIL ME-08D)

ME-08B SPlicing ELECTRIC CABLES BASIC MATERIALS AND METHODS DETAIL
NOT TO SCALE



ME-08C CONDUIT DEFLECTION FITTING DETAIL
DEFLECTION FITTING, O-Z/GEDNEY DX OR APPROVED EQUAL
NOT TO SCALE



ME-08D BREAKOUT BOOT DETAIL
NOT TO SCALE

ME-08

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

CABLE TERMINATION AND CONDUIT
EXPANSION/DEFLECTION FITTING DETAILS

SCALE: NOT TO SCALE DRAWN BY: KCM
DATE: October 29, 2004 CHECKED BY: WDS

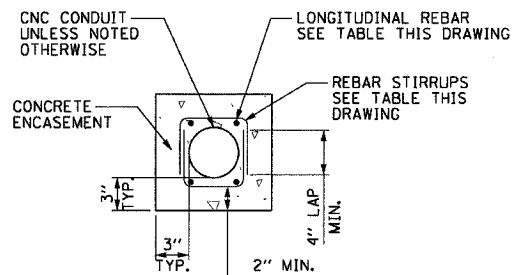
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	51
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

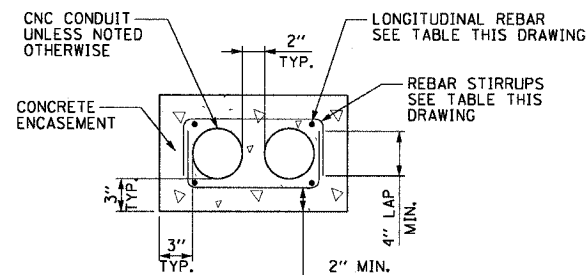
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NOTES:

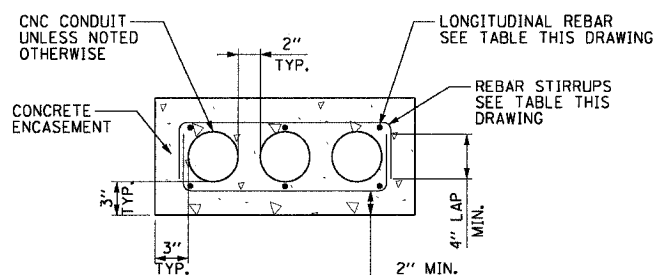
- SEE DRAWING ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- PROVIDE MINIMUM CLEARANCE SHOWN FROM TOP OF DUCTBANK TO FINISHED GRADE FOR ALL DUCTBANKS, REGARDLESS OF SIZE. CONTRACTOR MUST INSTALL DUCTBANKS SUCH THAT THEY WILL CLEAR ALL UNDERGROUND OBSTACLES.
- TRENCH MUST HAVE MINIMUM WIDTH SHOWN FOR ALL DUCTBANKS DETAILED ON THIS DRAWING. THE CONTRACTOR MUST INCREASE TRENCH WIDTH FOR ADDITIONAL CONDUITS, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST.
- NOT ALL DUCTBANK CONFIGURATIONS ARE SHOWN. ALL DUCTBANKS INSTALLED UNDER THIS CONTRACT WILL CONFORM TO THE TYPICAL SPACINGS SHOWN ON THIS DRAWING.



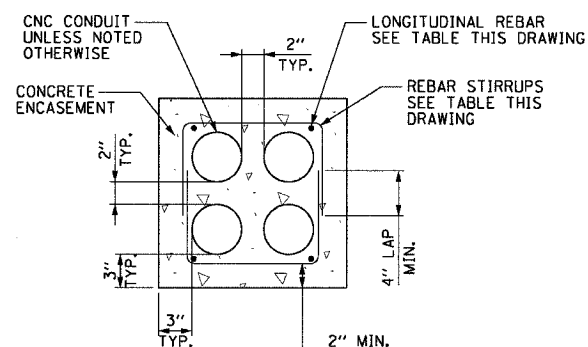
**1x1 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
ME-11A NOT TO SCALE



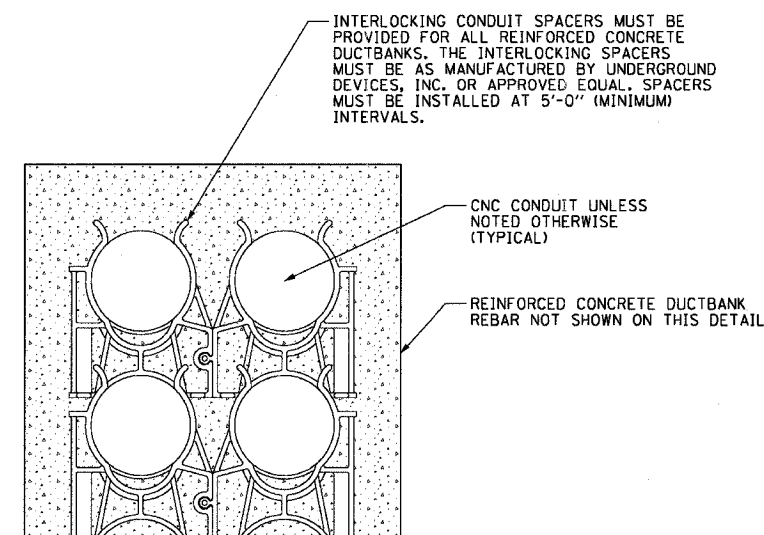
**2x1 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
ME-11B NOT TO SCALE



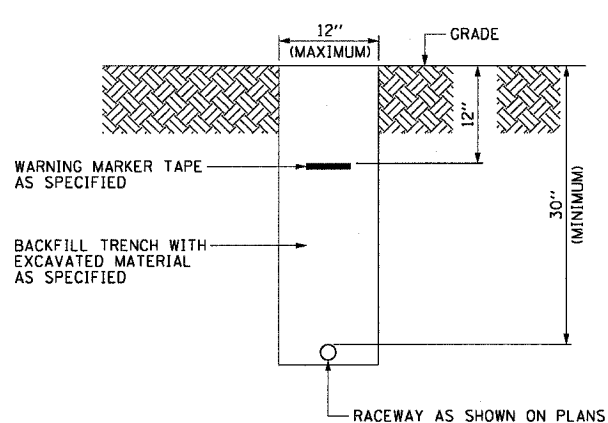
**3x1 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
ME-11C NOT TO SCALE



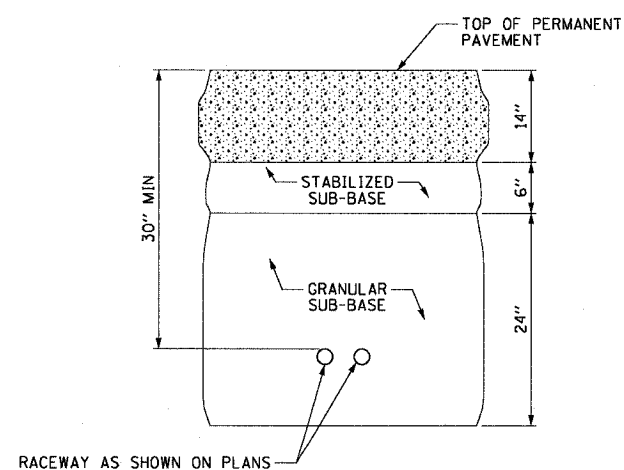
**2x2 DUCTBANK DETAIL-
IN REINFORCED CONCRETE**
ME-11D NOT TO SCALE



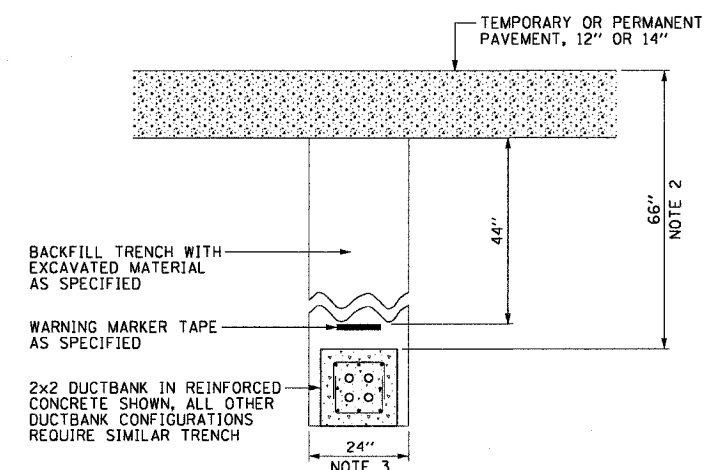
INTERLOCKING CONDUIT SPACER DETAIL
ME-11H NOT TO SCALE



**TYPICAL ELECTRICAL
CONDUIT IN UNPAVED AREA**
ME-11E NOT TO SCALE



**TYPICAL SURVEILLANCE
CONDUIT UNDER PERMANENT PAVEMENT**
ME-11F NOT TO SCALE



**TYPICAL ELECTRICAL
DUCTBANK UNDER PAVEMENT**
ME-11G NOT TO SCALE

DUCTBANK REINFORCEMENT TABLE		
DUCTBANK CONCRETE CROSS-SECTIONAL AREA SQ. INCHES	LONGITUDINAL REBAR	REBAR STIRRUPS
	BARS	
LESS THAN 450	#4	#3 AT 12" SPACING
451 TO 650	#5	#3 AT 12" SPACING
GREATER THAN 651	#6	#3 AT 12" SPACING

ME-11

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ELECTRICAL DUCTBANK DETAILS

SCALE: NOT TO SCALE
DATE: October 2, 2004
DRAWN BY: KCM
CHECKED BY: WDS

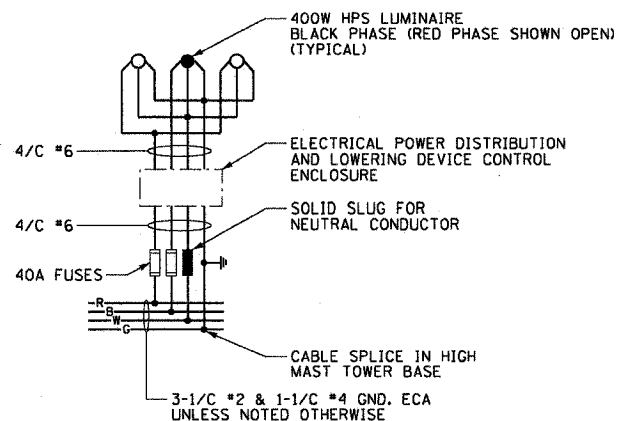
11/19/2004 11:48:24 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	52
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

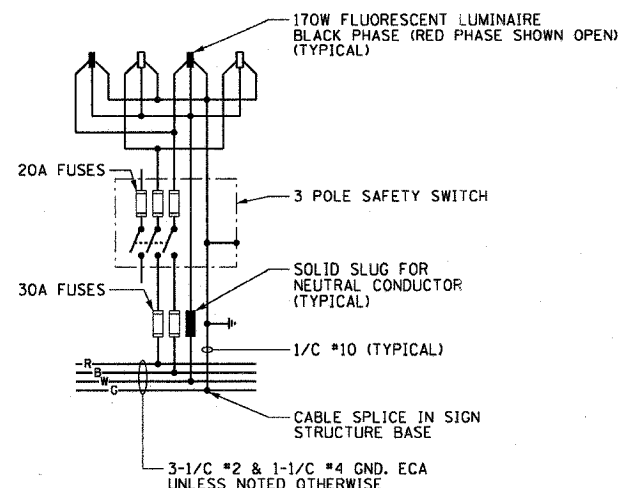
62583

NOTES:

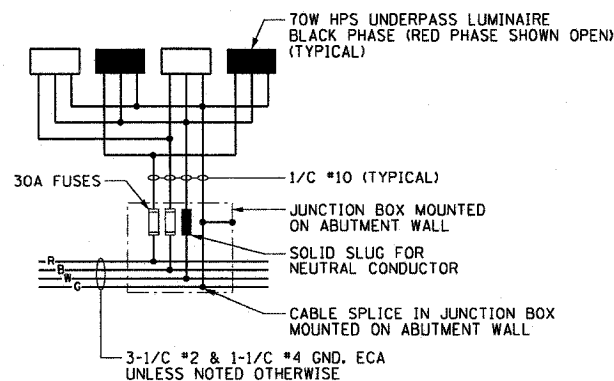
- SEE DRAWING ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



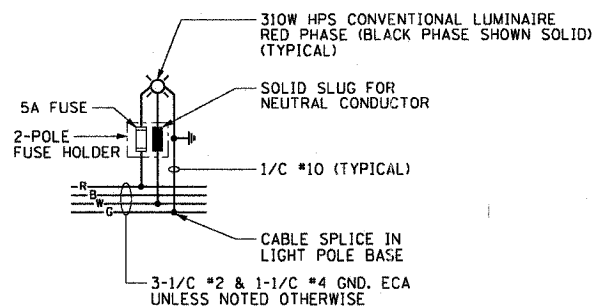
TYPICAL HIGH MAST LIGHT TOWER WIRING DIAGRAM
ME-12A
NOT TO SCALE



TYPICAL LIGHTED SIGN STRUCTURE WIRING DIAGRAM
ME-12B
NOT TO SCALE



TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM
ME-12C
NOT TO SCALE



TYPICAL CONVENTIONAL LIGHTING UNIT WIRING DIAGRAM
ME-12D
NOT TO SCALE

ME-12

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
LUMINAIRE WIRING DIAGRAM DETAILS

SCALE: NOT TO SCALE
DATE: October 29, 2004
DRAWN BY: C.J.M.
CHECKED BY: W.D.S.

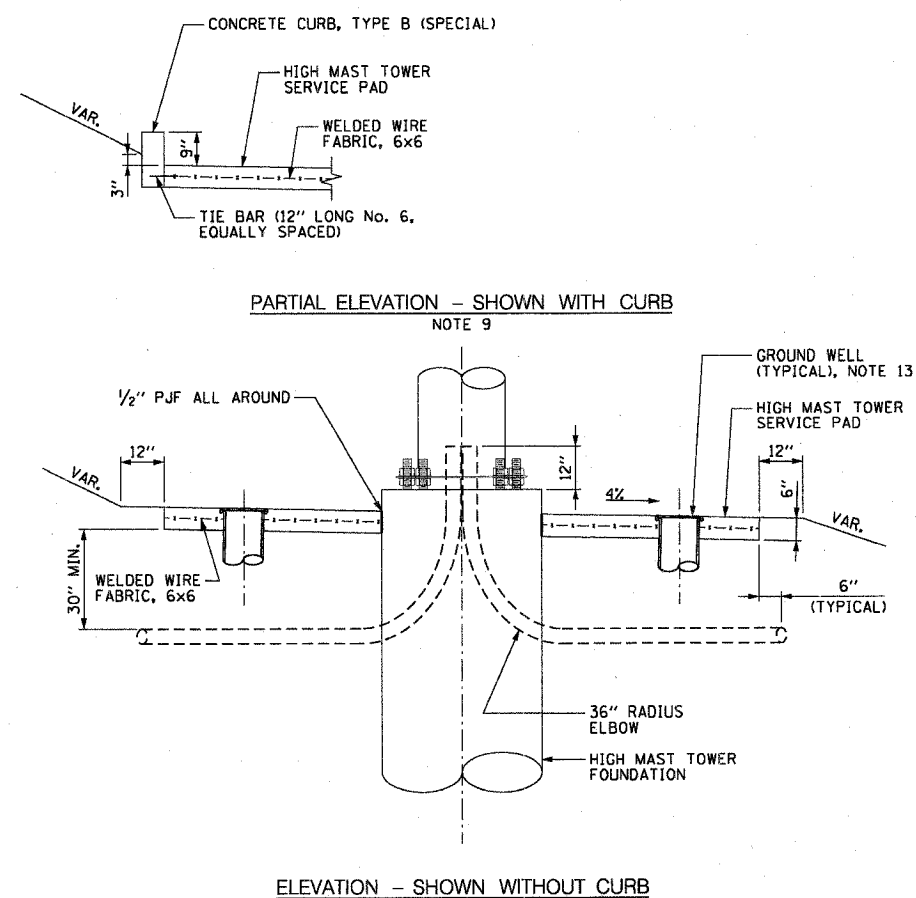
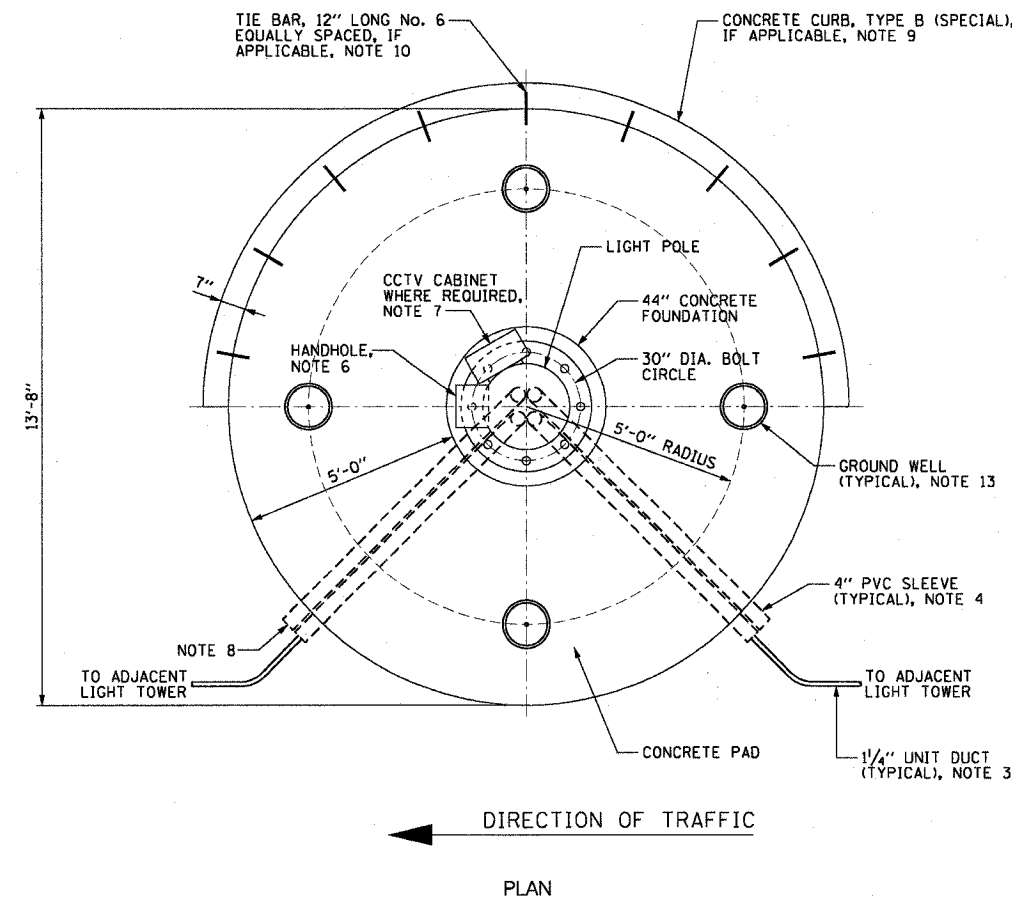
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	53
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS		FED. AID PROJECT	

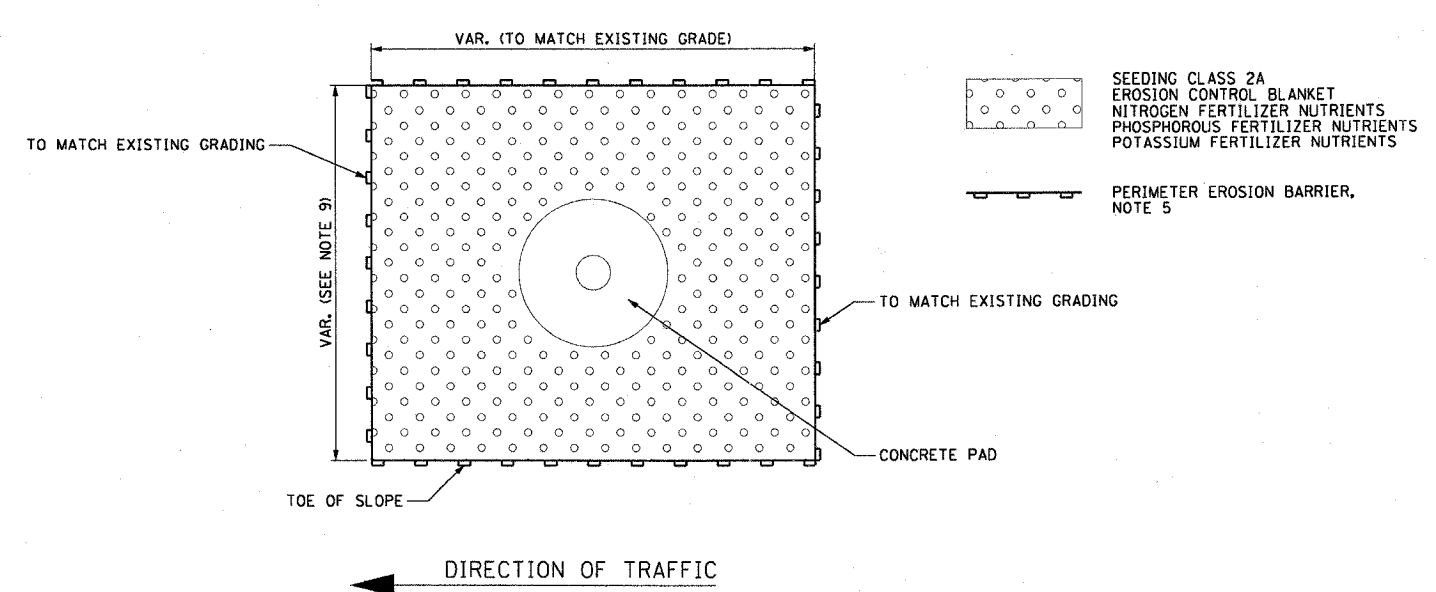
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NOTES:

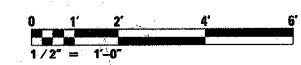
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- SEE IDOT STANDARD DRAWING BE501 FOR ADDITIONAL HIGH MAST LIGHT TOWER FOUNDATION AND GROUND WELL DETAILS.
- SEE PLAN DRAWINGS FOR QUANTITY, SIZE, AND TYPE OF CONDUIT AND CIRCUITS ROUTED TO EACH HIGH MAST LIGHT TOWER.
- PVC SLEEVES MUST BE EXTENDED 6 INCHES BEYOND THE EDGE OF THE CONCRETE PAD.
- THE PERIMETER EROSION BARRIER IS TO BE PLACED AROUND THE WORK ZONE AREA OR AS DIRECTED BY THE ENGINEER.
- THE HANDHOLE FOR THE HIGH MAST LIGHTING UNIT MUST BE ORIENTED SUCH THAT IT IS MOUNTED ON THE SIDE OF THE POLE THAT IS OPPOSITE THE DIRECTION OF TRAFFIC.
- THE DETAIL REPRESENTS A HIGH MAST LIGHT TOWER WITH A CCTV CAMERA MOUNTED ON IT. THE DETAIL FOR HIGH MAST LIGHT TOWERS WITH NO CAMERAS IS SIMILAR.
- PVC SLEEVE FOR CCTV CAMERA POWER FEED (FUTURE). ALL SLEEVES MUST BE CAPPED UNLESS NOTED OTHERWISE ON THE PLANS.
- SEE CROSS SECTIONS FOR LOCATIONS WHERE CONCRETE CURB, TYPE B (SPECIAL) IS REQUIRED.
- TIE BARS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF CONCRETE CURB, TYPE B (SPECIAL).
- SEE IDOT STANDARD 606001 FOR DIMENSIONS OF BARRIER CURB.
- SEE CROSS SECTIONS FOR LIMITS OF GRADING AND SEEDING.
- INSTALL GROUND WELLS 5'-0" AS MEASURED FROM THE CENTER LINE OF THE HIGH MAST TOWER TO THE CENTER LINE OF THE WELL.



ME-13A GROUND MOUNTED HIGH MAST TOWER FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



ME-13B LANDSCAPING ADJACENT TO GROUND MOUNTED HIGH MAST TOWER FOUNDATION
NOT TO SCALE



ME-13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

CONDUIT INSTALLATION DETAILS
FOR GROUND MOUNTED HIGH MAST
LIGHT TOWERS

SCALE: AS SHOWN DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

10/14/2004 10:58:18 AM

62583

BILL OF MATERIAL

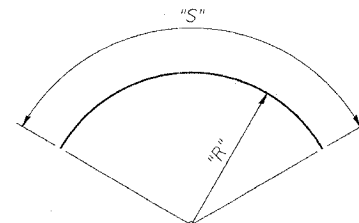
Light Tower Service Pad, Special with 3'-6" Wall (Note 4)

Bar	No.	Size	Length	Shape
h ₁₃ (E)	1	#5	23'-6"	
h ₁₄ (E)	1	#5	18'-11"	
h ₁₅ (E)	1	#5	13'-7"	
h ₁₆ (E)	1	#5	8'-4"	
h ₁₇ (E)	1	#4	22'-1"	
h ₁₈ (E)	1	#4	17'-9"	
h ₁₉ (E)	1	#4	12'-9"	
h ₂₀ (E)	1	#4	7'-10"	
n ₂ (E)	25	#6	5'-10"	
t ₁ (E)	25	#6	5'-1"	
v ₃ (E)	7	#4	3'-10"	
v ₄ (E)	7	#4	3'-2"	
w ₁ (E)	1	#5	24'-4"	
w ₂ (E)	1	#5	21'-7"	
w ₃ (E)	1	#5	18'-10"	
w ₄ (E)	1	#5	15'-5"	
w ₅ (E)	1	#5	11'-6"	
Concrete Structures		Cu. Yd.	2.2	
Reinforcement Bars, Epoxy Coated		Pound	150	
Protective Coat		Sq. Yd.	9	
Rustication Finish		Sq. Ft.	32	

BILL OF MATERIAL

Light Tower Service Pad, Special with 5'-0" Wall (Note 4)

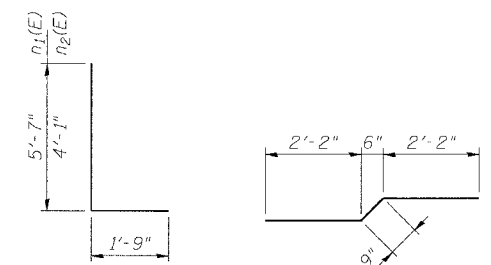
Bar	No.	Size	Length	Shape
h ₁ (E)	1	#5	23'-6"	
h ₂ (E)	1	#5	20'-10"	
h ₃ (E)	1	#5	17'-8"	
h ₄ (E)	1	#5	14'-6"	
h ₅ (E)	1	#5	11'-4"	
h ₆ (E)	1	#5	8'-2"	
h ₇ (E)	1	#4	22'-1"	
h ₈ (E)	1	#4	19'-7"	
h ₉ (E)	1	#4	16'-7"	
h ₁₀ (E)	1	#4	13'-7"	
h ₁₁ (E)	1	#4	10'-8"	
h ₁₂ (E)	1	#4	7'-8"	
n ₁ (E)	25	#6	7'-4"	
t ₁ (E)	25	#6	5'-1"	
v ₁ (E)	7	#4	5'-0"	
v ₂ (E)	8	#4	4'-8"	
w ₁ (E)	1	#5	24'-4"	
w ₂ (E)	1	#5	21'-7"	
w ₃ (E)	1	#5	18'-10"	
w ₄ (E)	1	#5	15'-5"	
w ₅ (E)	1	#5	11'-6"	
Concrete Structures		Cu. Yd.	3.0	
Reinforcement Bars, Epoxy Coated		Pound	210	
Protective Coat		Sq. Yd.	12	
Rustication Finish		Sq. Ft.	53	



Bar	"R"	"S"	Bar	"R"	"S"
h ₁ (E)	7'-7"	23'-6"	h ₁₄ (E)	7'-7"	18'-11"
h ₂ (E)	7'-7"	20'-10"	h ₁₅ (E)	7'-7"	13'-7"
h ₃ (E)	7'-7"	17'-8"	h ₁₆ (E)	7'-7"	8'-4"
h ₄ (E)	7'-7"	14'-6"	h ₁₇ (E)	7'-1 1/2"	22'-1"
h ₅ (E)	7'-7"	11'-4"	h ₁₈ (E)	7'-1 1/2"	17'-9"
h ₆ (E)	7'-7"	8'-2"	h ₁₉ (E)	7'-1 1/2"	12'-9"
h ₇ (E)	7'-1 1/2"	22'-1"	h ₂₀ (E)	7'-1 1/2"	7'-10"
h ₈ (E)	7'-1 1/2"	19'-7"	w ₁ (E)	7'-7"	24'-4"
h ₉ (E)	7'-1 1/2"	16'-7"	w ₂ (E)	6'-8"	21'-7"
h ₁₀ (E)	7'-1 1/2"	13'-7"	w ₃ (E)	5'-10"	18'-10"
h ₁₁ (E)	7'-1 1/2"	10'-8"	w ₄ (E)	4'-9"	15'-5"
h ₁₂ (E)	7'-1 1/2"	7'-8"	w ₅ (E)	3'-6"	11'-6"
h ₁₃ (E)	7'-7"	23'-6"			

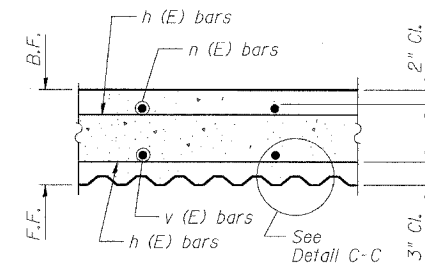
Note: "R" and "S" measured along bar @

BARS w₁(E) thru w₅(E) & h₁(E) thru h₂₀(E)

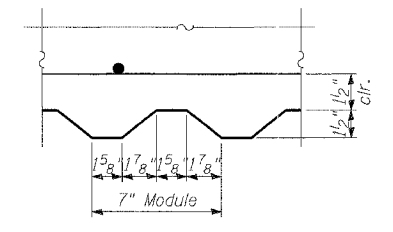


BARS n₁(E) & n₂(E)

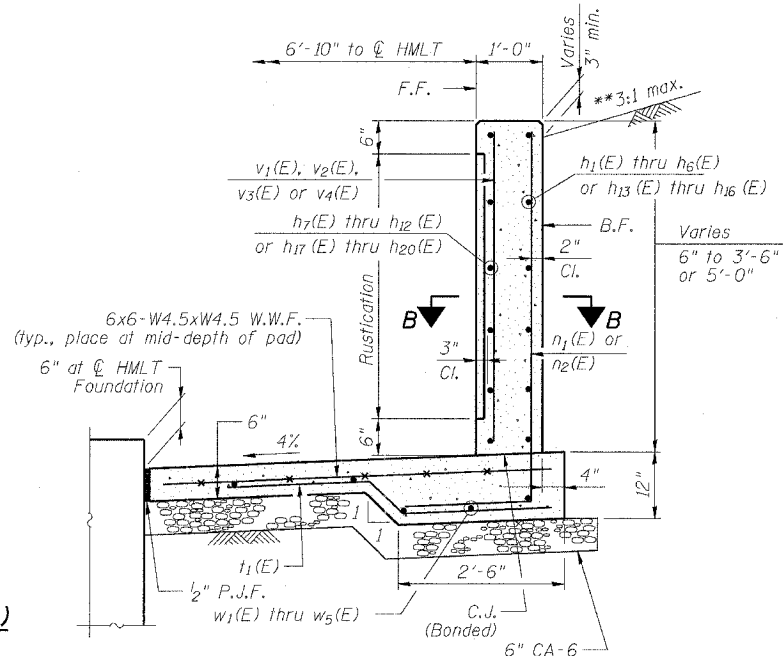
BAR t₁(E)



SECTION B-B

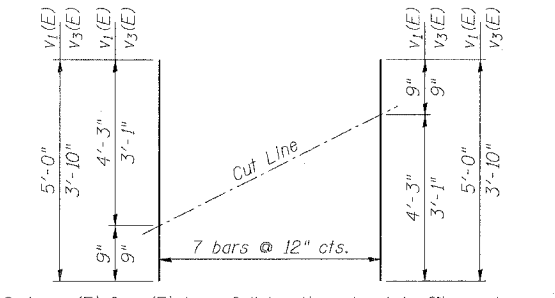


DETAIL C-C



SECTION A-A

**See Roadway Cross Section Shts.



*** CUTTING DIAGRAM**

Bars v₁(E) & v₃(E)

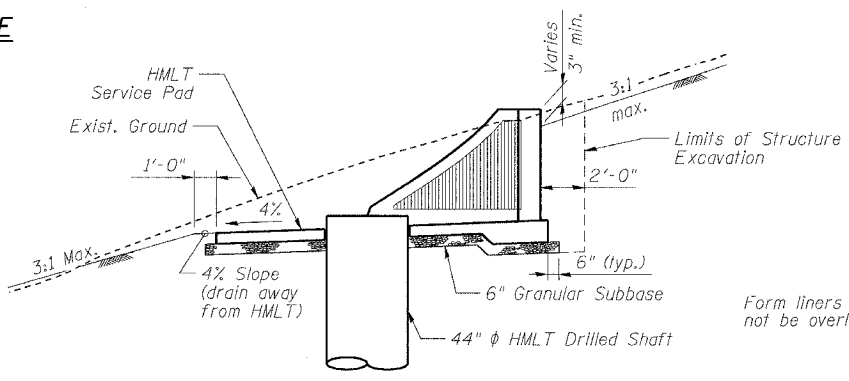
Order v₁(E) & v₃(E) bars full length and cut to fit as shown. Use remainder of bars as indicated on plans.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Light Tower Service Pad, Special	Sq. Ft.	137
Structure Excavation	Cu. Yd.	33
Concrete Structures	Cu. Yd.	3.0
Reinforcement Bars, Epoxy Coated	Pound	210
Rustication Finish	Sq. Ft.	53
Protective Coat	Sq. Yd.	27.22

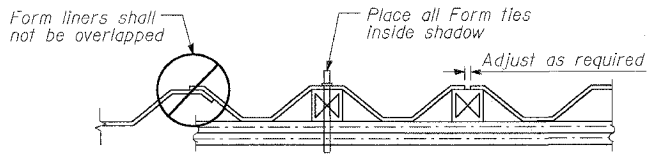
HMLT SERVICE PAD/RETAINING WALL SCHEDULE

HMLT I.D.	Service Pad/Retaining Wall Requirements
6 RMNI	Service Pad with 5'-0" Retaining Wall



SECTION THRU EMBANKMENT

(At Typ. Tower Location)
HMLT not shown for clarity



SUGGESTED FORMWORK DETAIL

NOTES

- F.F. and B.F. denote Front Face and Back Face, respectively.
- HMLT denotes High Mast Light Tower.
- For location of High Mast Light Tower Foundations, see Roadway Lighting Plan sheets.
- Bars n₁(E), n₂(E), t₁(E) and w₁(E) thru w₅(E) will not be measured and paid separately but will be included in the cost of Light Tower Service Pad, Special. See Special Provisions.
- See IDOT Standard Drawing BE501 for additional High Mast Light Tower foundation and ground well details.
- Reinforcement Bars designated (E) shall be epoxy coated.
- Refer to High Mast Light Tower Service Pad & Retaining Wall Details 1 for location and orientation of conduit sleeves and grounding wells.
- Contractor shall maintain integrity of Frontage Roads as may be required in excavating for HMLT service pad walls.
- Provide Protective Coat to top, front face, ends of walls, and to the top of the concrete service pad.

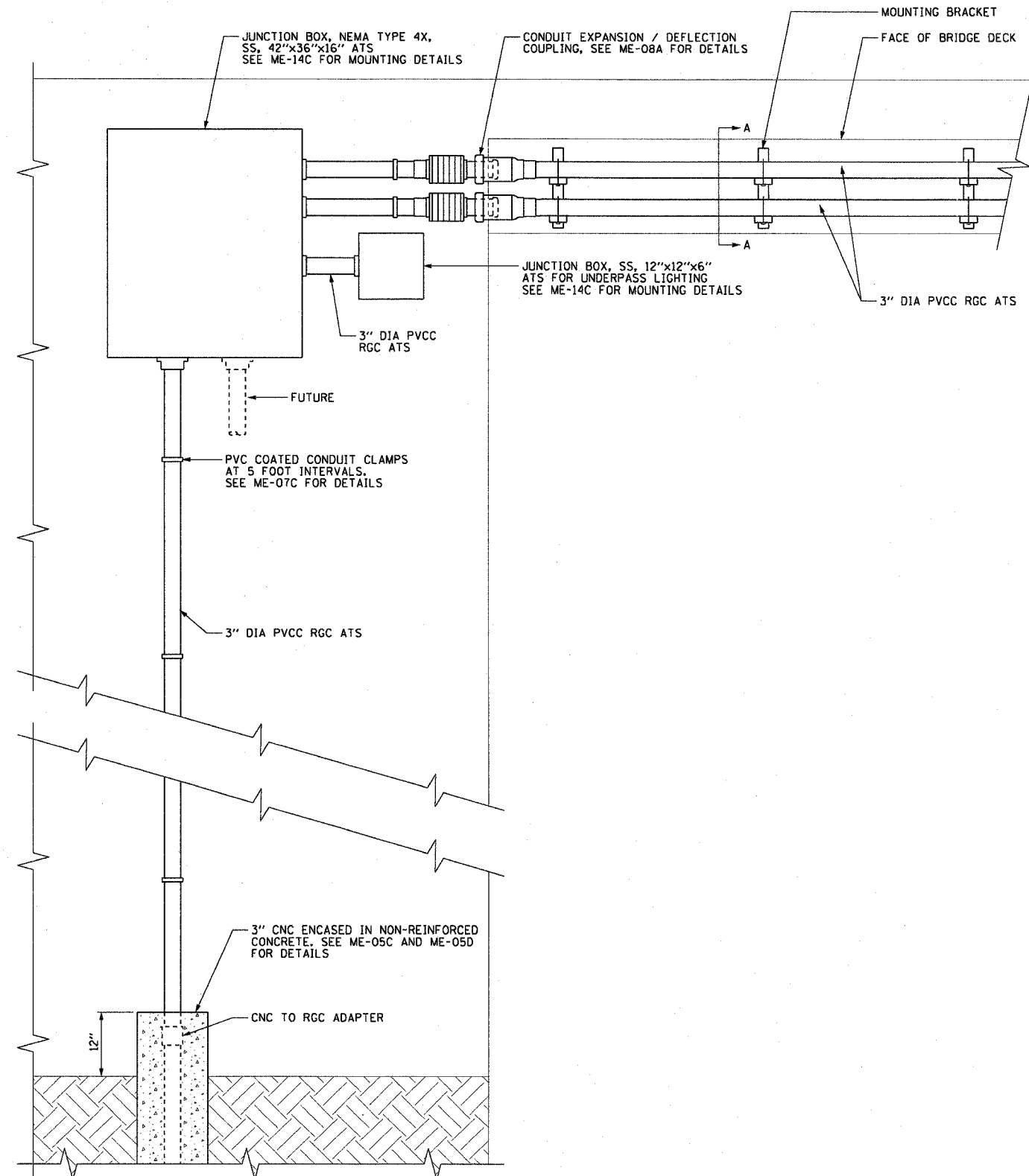
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
HIGH MAST LIGHT TOWER SERVICE PAD & RETAINING WALL DETAILS 2
SCALE: N.T.S. DRAWN BY:
DATE: October 25, 2004 CHECKED BY:

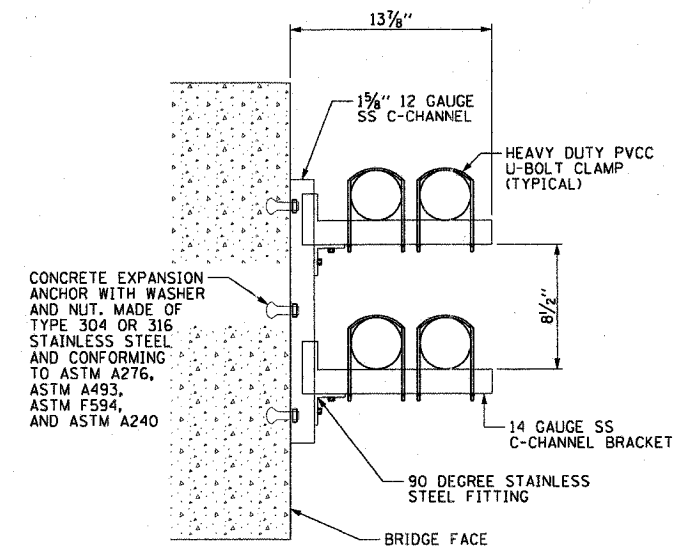
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	56
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62583

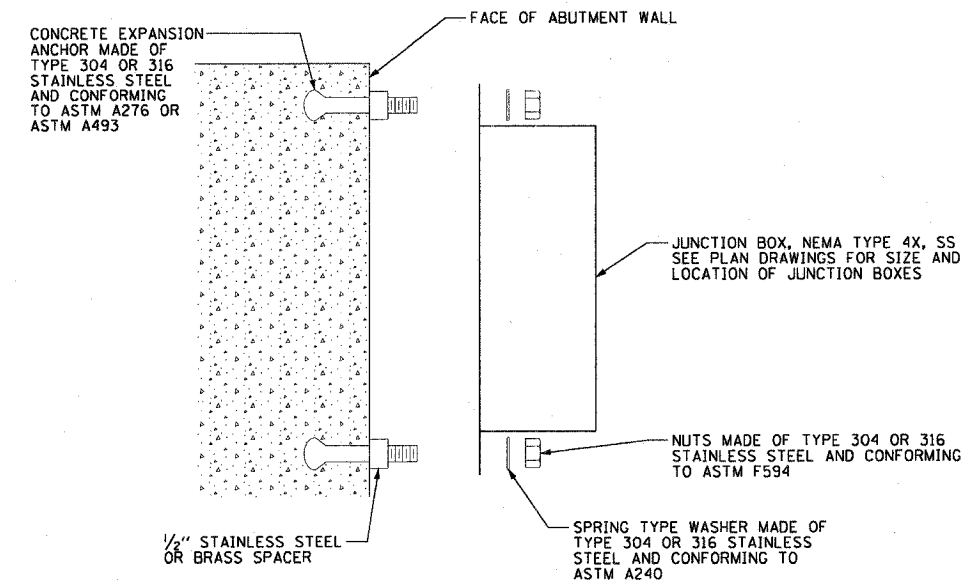
NOTES:
1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



ME-14A OVERPASS CONDUIT INSTALLATION DETAIL
NOT TO SCALE
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT



ME-14B MOUNTING BRACKET DETAIL A-A
NOT TO SCALE
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT



ME-14C JUNCTION BOX MOUNTED TO STRUCTURE
NOT TO SCALE

ME-14

REVISIONS	
NAME	DATE

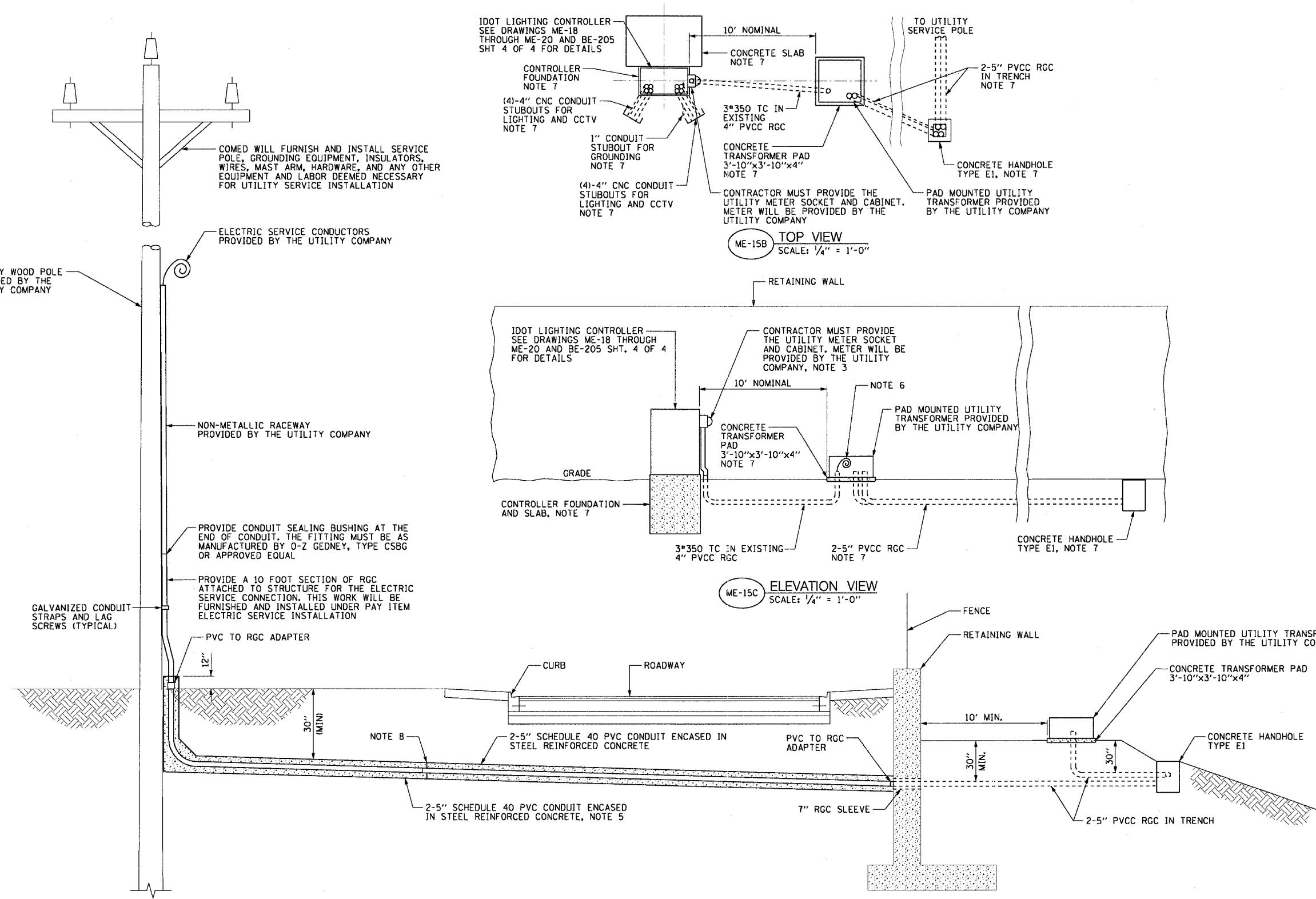
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	57
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

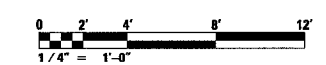
62583

NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- SEE ROADWAY PLAN DRAWINGS FOR CONSTRUCTION LIMITS.
- INTERCEPT EXISTING 4 INCH PVCC RGC STUBOUT AND PROVIDE NEW CONDUIT TO ELECTRIC METER SOCKET AS SHOWN.
- ALL WORK ASSOCIATED WITH THE INSTALLATION OF THE LIGHTING CONTROLLER UTILITY SERVICE FEED MUST BE COORDINATED WITH AND APPROVED BY COMED.
- ALL MATERIALS AND LABOR FOR THE INSTALLATION OF THE CONCRETE ENCASED DUCTBANK MUST MEET WITH ALL COMED REQUIREMENTS AND STANDARDS.
- THE CONTRACTOR MUST PROVIDE SUFFICIENT SLACK CABLES FOR TERMINATION BY COMED.
- FOR IDOT LIGHTING CONTROLLER 'T' ONLY; EQUIPMENT WILL BE FURNISHED AND INSTALLED BY OTHERS.
- FOR IDOT LIGHTING CONTROLLER 'T' ONLY; INTERCEPT EXISTING UNDERGROUND REINFORCED CONCRETE ENCASED DUCTBANK AND PROVIDE NEW DUCTBANK TO THE UTILITY POLE AS SHOWN.



ME-15A CONDUIT INSTALLATION DETAIL FOR LIGHTING CONTROLLER ELECTRIC SERVICE
SCALE: 1/4" = 1'-0" NOTE 4



ME-15

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

CONDUIT INSTALLATION DETAILS FOR
LIGHTING CONTROLLER ELECTRIC
SERVICE THROUGH RETAINING WALL

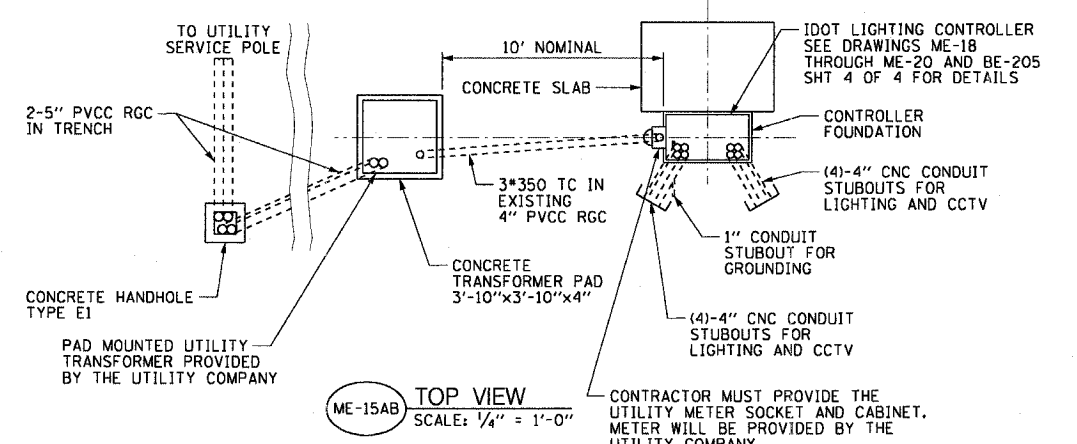
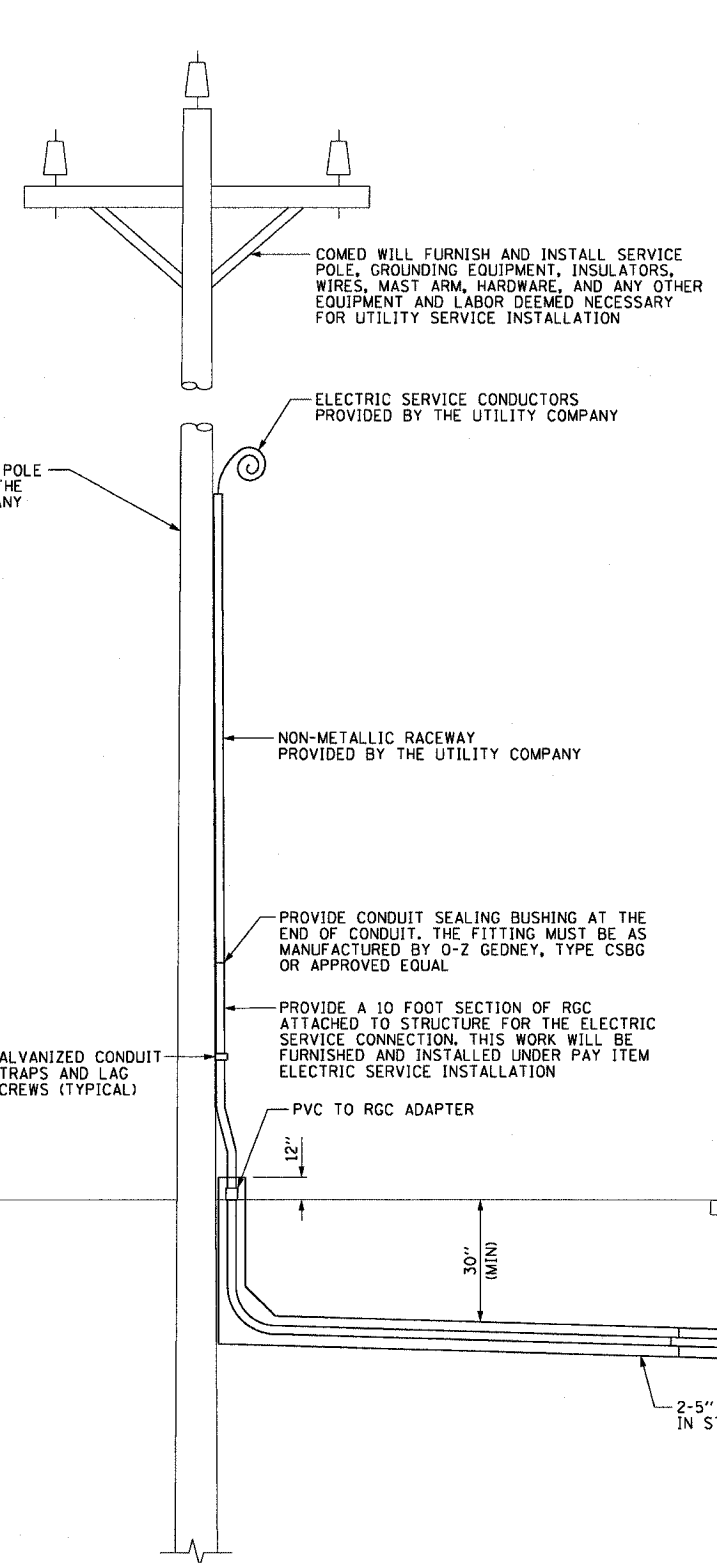
SCALE: AS SHOWN DRAWN BY: CJM/HR
DATE: October 29, 2004 CHECKED BY: WDS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	58
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

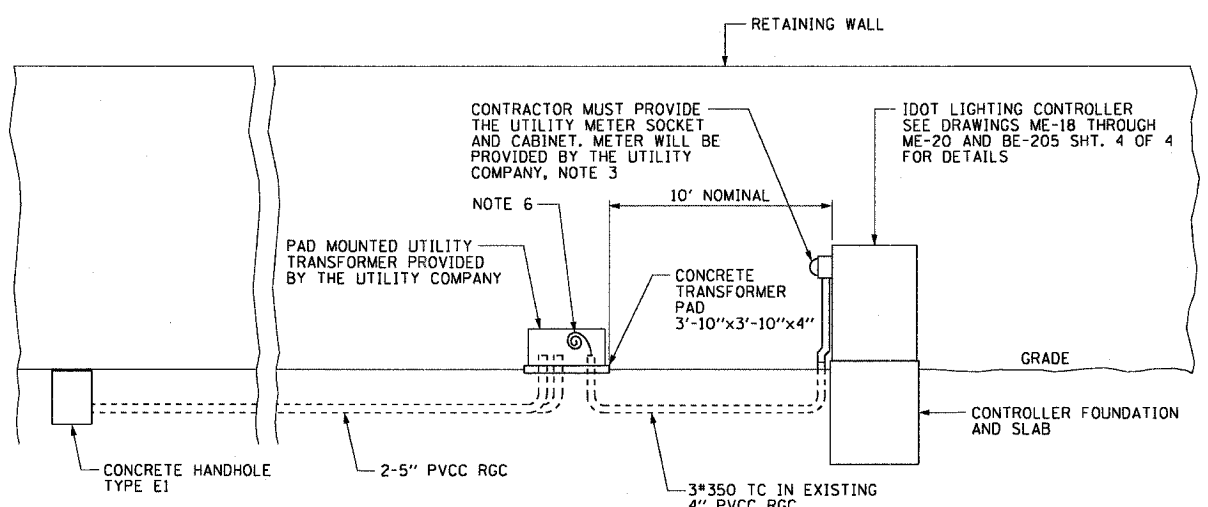
62583

NOTES:

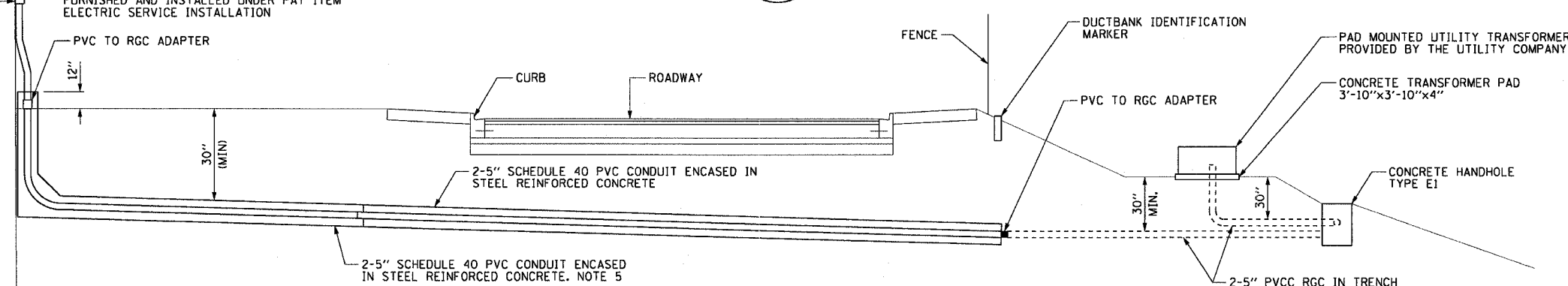
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- SEE ROADWAY PLAN DRAWINGS FOR CONSTRUCTION LIMITS.
- INTERCEPT EXISTING 4 INCH PVCC RGC STUBOUT AND PROVIDE NEW CONDUIT TO ELECTRIC METER SOCKET AS SHOWN.
- ALL WORK ASSOCIATED WITH THE INSTALLATION OF THE LIGHTING CONTROLLER UTILITY SERVICE FEED MUST BE COORDINATED WITH AND APPROVED BY COMED.
- ALL MATERIALS AND LABOR FOR THE INSTALLATION OF THE CONCRETE ENCASED DUCTBANK MUST MEET WITH ALL COMED REQUIREMENTS AND STANDARDS.
- THE CONTRACTOR MUST PROVIDE SUFFICIENT SLACK CABLES FOR TERMINATION BY COMED.



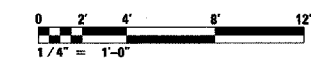
ME-15AB TOP VIEW
SCALE: 1/4" = 1'-0"



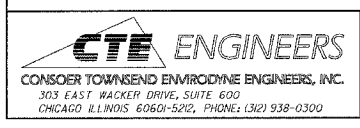
ME-15AC ELEVATION VIEW
SCALE: 1/4" = 1'-0"



ME-15AA CONDUIT INSTALLATION DETAIL FOR LIGHTING CONTROLLER ELECTRIC SERVICE
SCALE: 1/4" = 1'-0" NOTE 4



ME-15A



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

CONDUIT INSTALLATION DETAILS FOR
LIGHTING CONTROLLER ELECTRIC SERVICE

SCALE: AS SHOWN
DATE: October 29, 2004

DRAWN BY: C.JM/HR
CHECKED BY: WDS

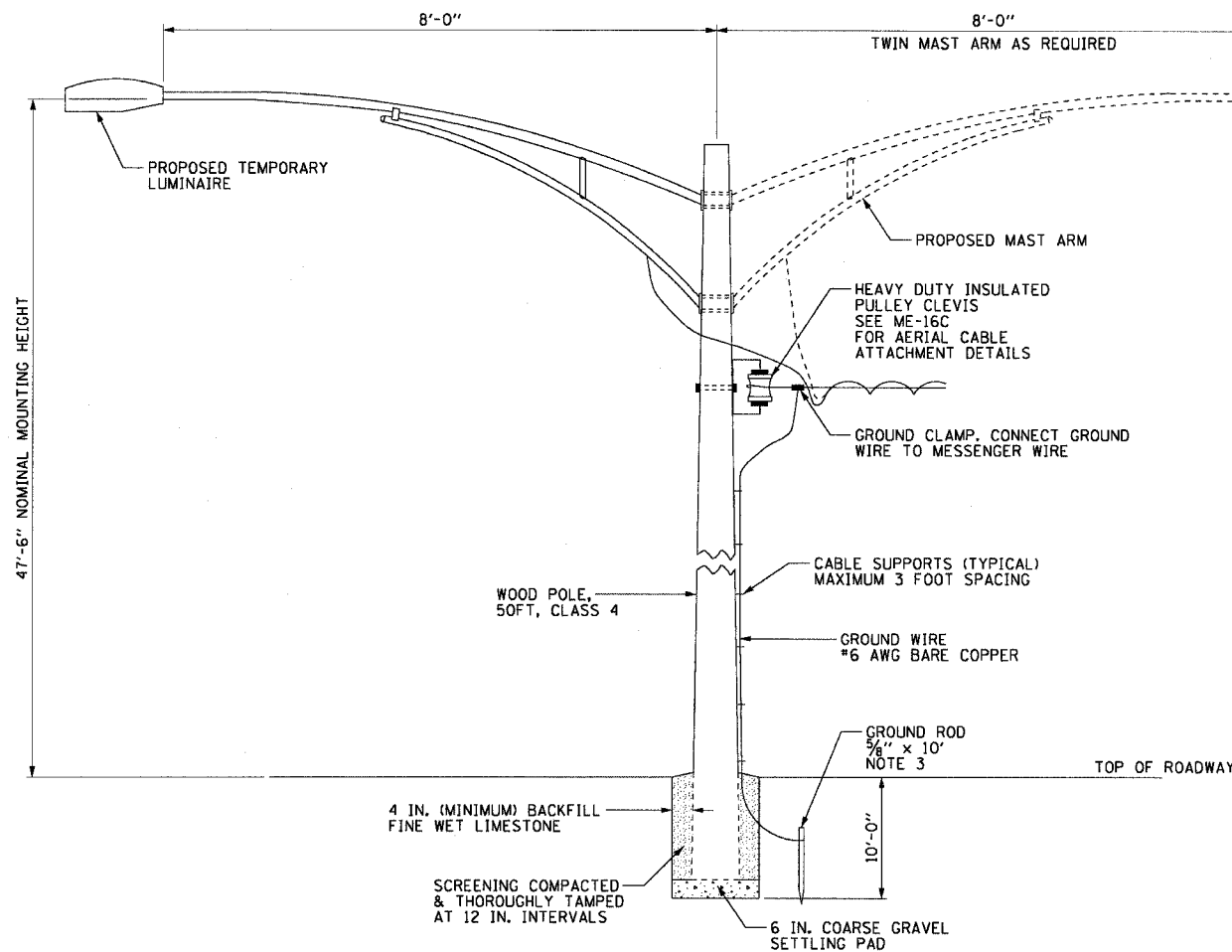
17/22/2004 03:06:53 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	54
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

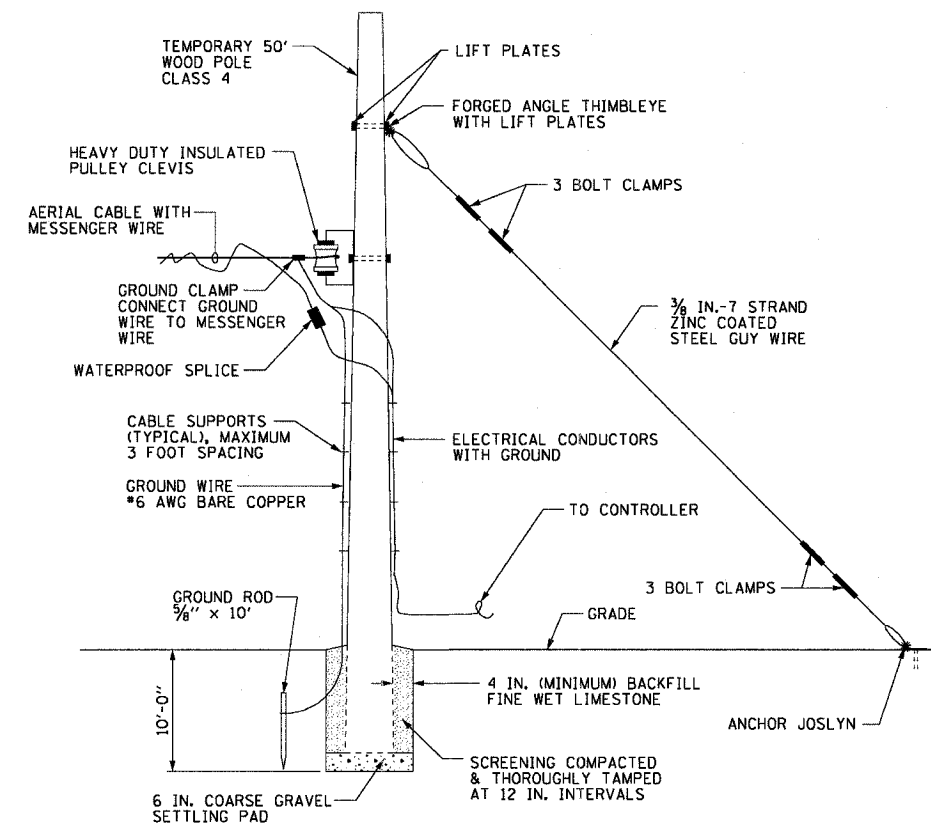
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NOTES:

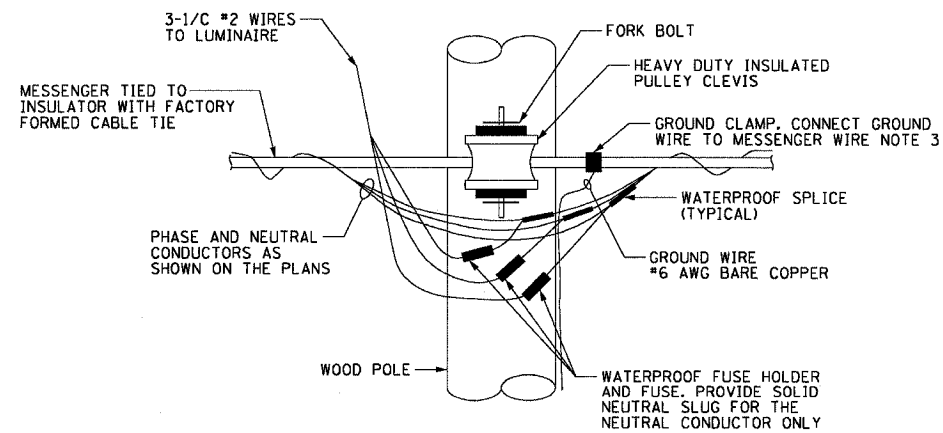
1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE ROADWAY LIGHTING PLANS FOR PROPOSED INSTALLATION LOCATIONS OF THE WOOD POLES.
3. GROUND RODS SHALL BE INSTALLED FOR ALL WOOD POLES USED FOR TEMPORARY LIGHTING UNITS AND ALL TEMPORARY WOOD POLES AT THE END OF AN AERIAL RUN THAT CONNECT TO LIGHTING CONTROLLERS AS SHOWN IN DETAIL ME-16B.



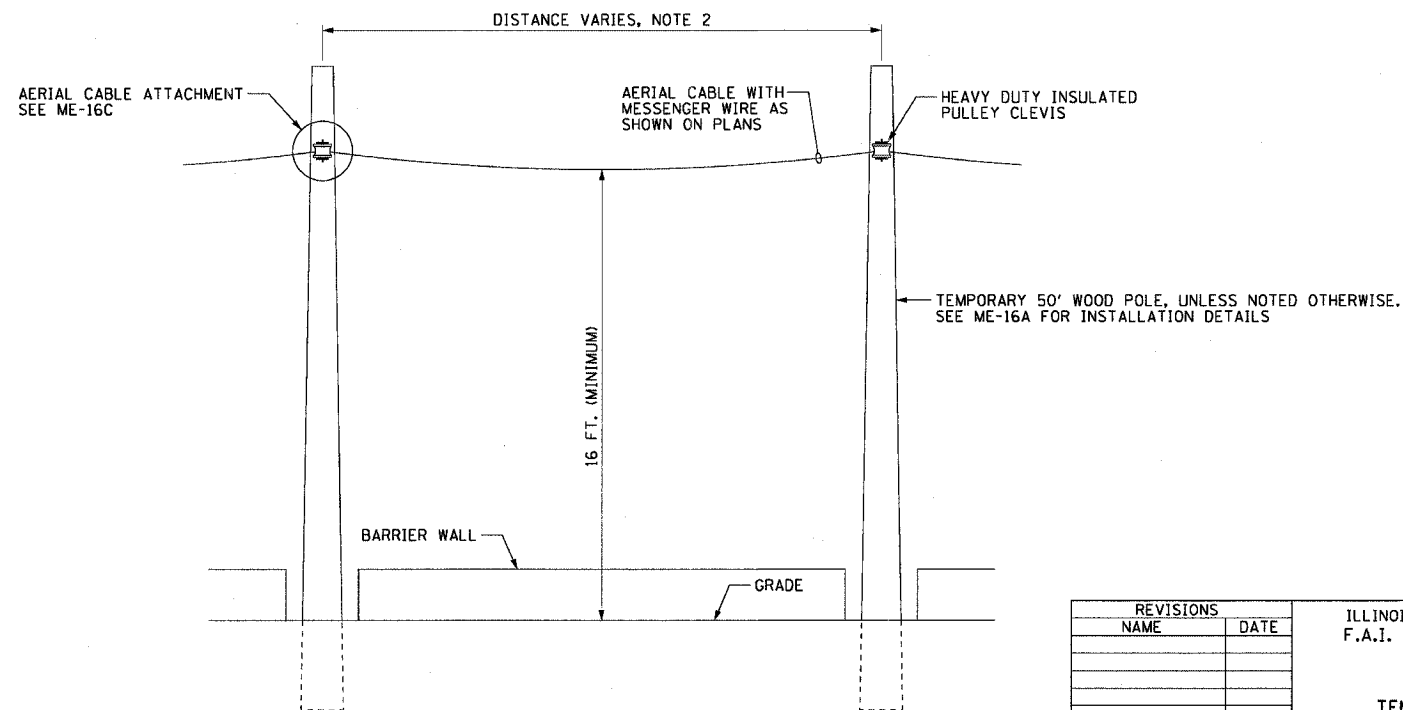
ME-16A TEMPORARY LIGHTING UNIT INSTALLATION DETAIL
WOOD POLE INSTALLATION IS SIMILAR
NOT TO SCALE



ME-16B TEMPORARY WOOD END POLE INSTALLATION DETAILS
NOT TO SCALE



ME-16C TEMPORARY WOOD POLE
AERIAL CABLE ATTACHMENT DETAIL
NOT TO SCALE



ME-16D AERIAL CABLE INSTALLATION DETAIL
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
**TEMPORARY ROADWAY LIGHTING
WOOD POLE DETAILS**

SCALE: NOT TO SCALE DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

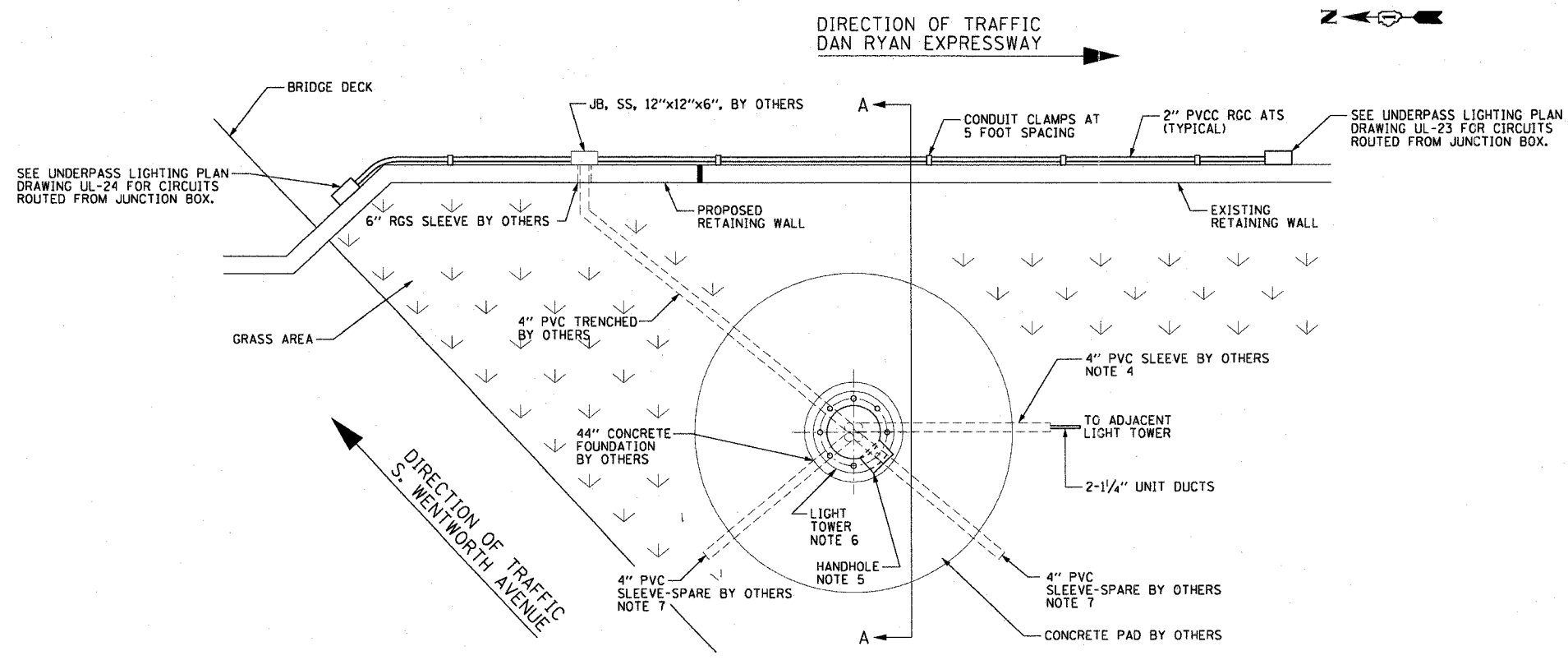
REVISED 11/23/2004 11:42:36 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	60
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

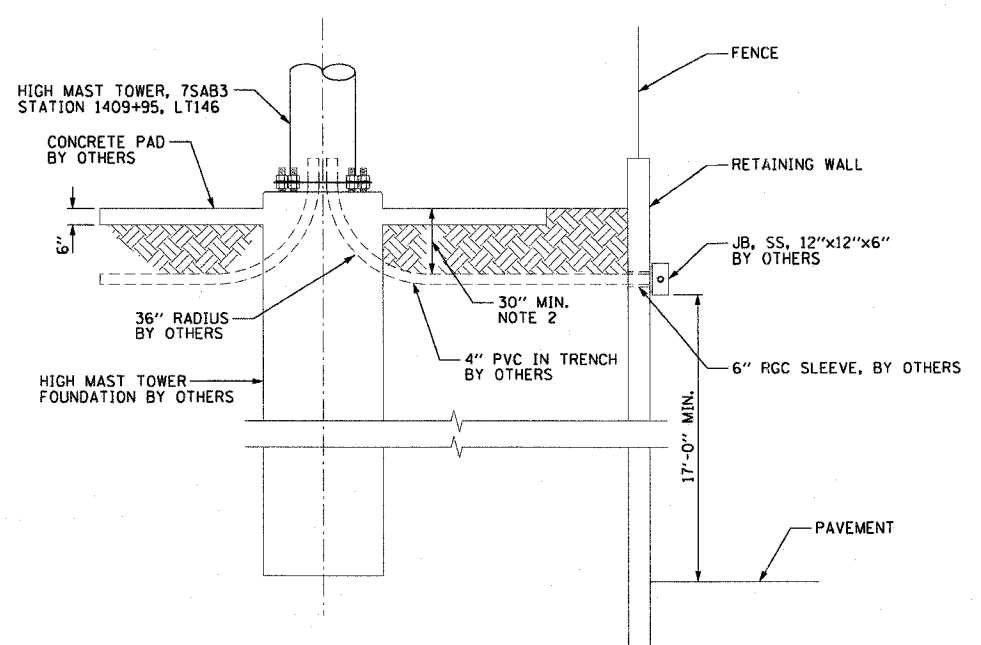
62583

NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- CONDUIT SLEEVES MUST BE INSTALLED A MINIMUM OF 30 INCHES BELOW GRADE.
- SEE PLAN DRAWINGS FOR QUANTITY, SIZE, AND TYPE OF CONDUIT AND CIRCUITS ROUTED TO EACH HIGH MAST LIGHT TOWER FOUNDATION AND TO JUNCTION BOX.
- PVC SLEEVES MUST BE EXTENDED 6 INCHES BEYOND THE EDGE OF THE CONCRETE PAD AND THE SLEEVE ENDS MUST BE CAPPED.
- THE HANDHOLE FOR THE HIGH MAST LIGHTING UNIT MUST BE ORIENTED SUCH THAT IT IS MOUNTED ON THE SIDE OF THE POLE THAT IS OPPOSITE THE DIRECTION OF TRAFFIC.
- SEE DETAIL ME-13A FOR TYPICAL CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWER FOUNDATIONS.
- PVC SLEEVE FOR CCTV CAMERA POWER FEED (FUTURE). SLEEVE MUST BE CAPPED UNLESS NOTED OTHERWISE ON THE PLANS.



ME-17A CONDUIT AND JUNCTION BOX MOUNTING DETAIL
NOT TO SCALE
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT



ME-17B DETAIL A-A
NOT TO SCALE
DETAIL FOR REFERENCE ONLY, NOT INCLUDED IN THIS CONTRACT

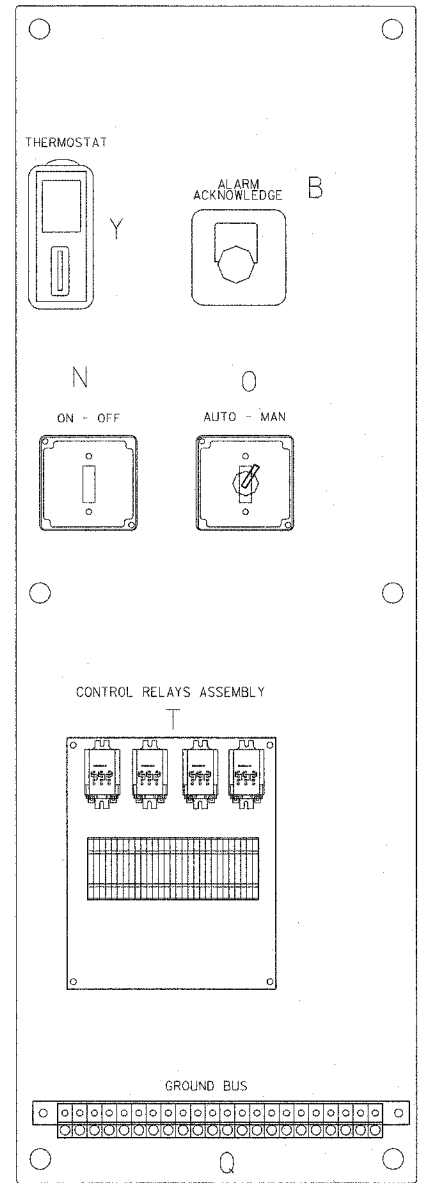
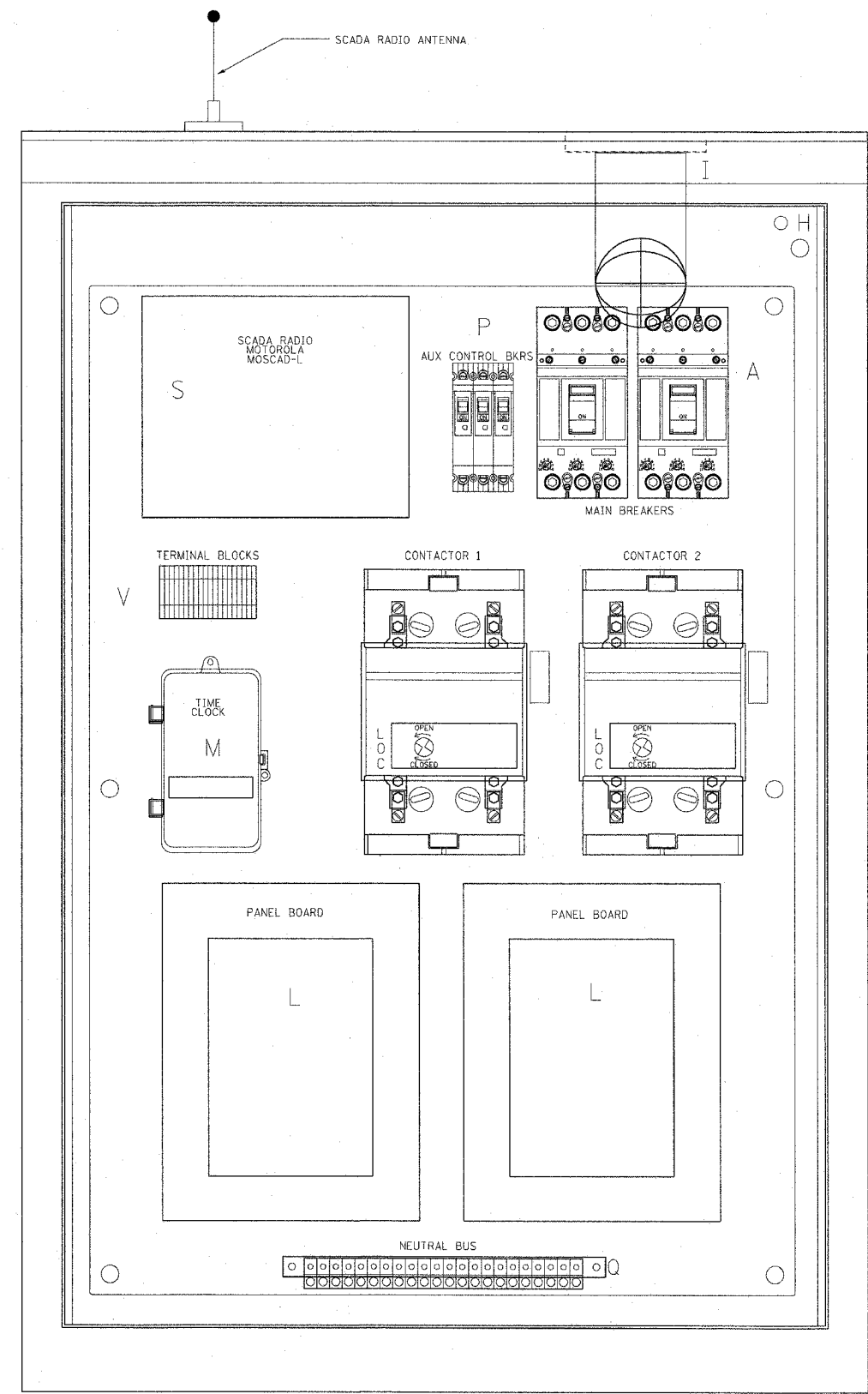
ME-17

REVISIONS	
NAME	DATE

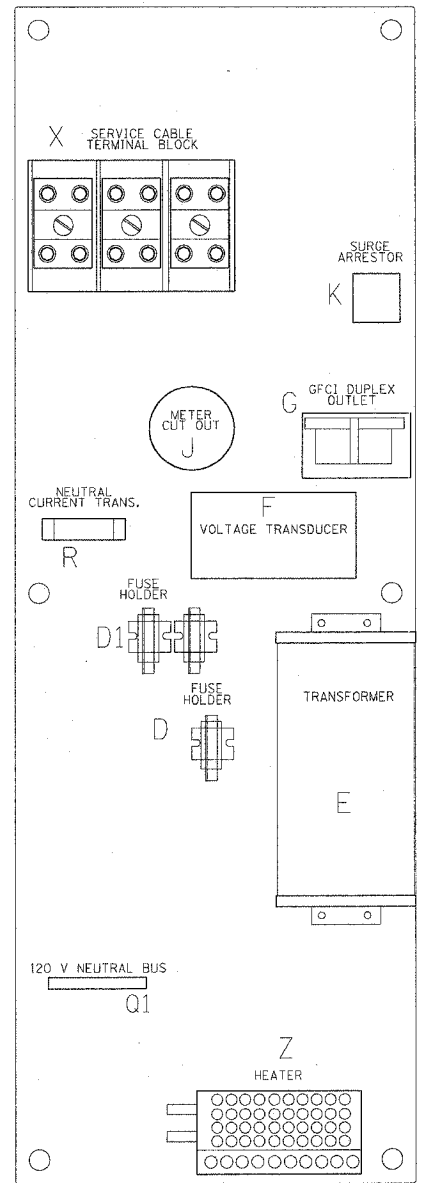
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
**LIGHT TOWER 7 SAB3
CONDUIT INSTALLATION DETAIL**
SCALE: AS SHOWN DRAWN BY: CJM/HAR
DATE: October 29, 2004 CHECKED BY: WDS

10/14/2004 10:56:21 AM

62583



LEFT SIDE PANEL



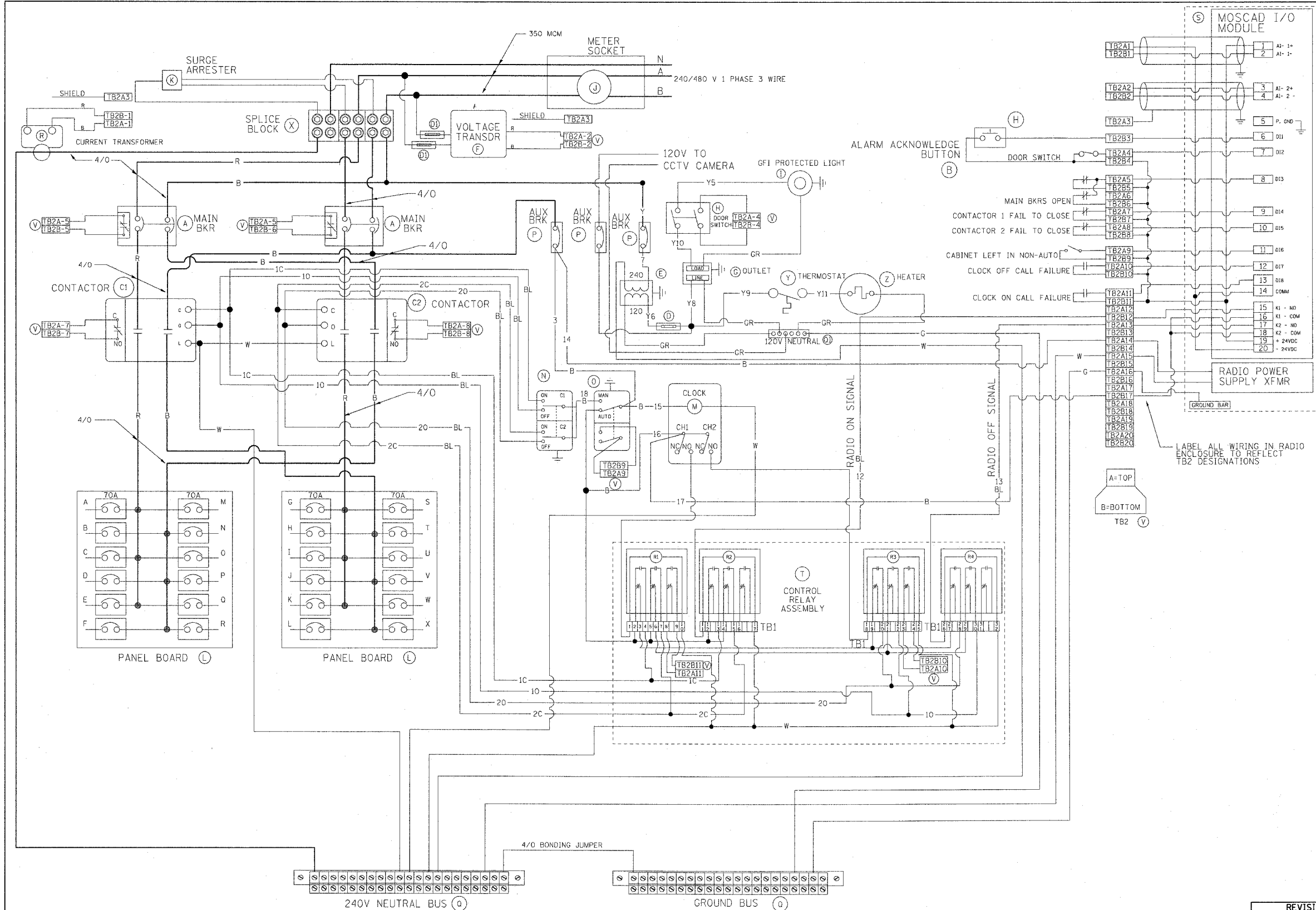
RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 175 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK-15 FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK-1/2 FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
F	1	VOLTAGE TRANSDUCER
G	1	15 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH A-20G0-B7-K
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 320 AMP
K	1	SURGE ARRESTOR
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE
P	3	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 1/0 AND 5 *6 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 3 PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4), QTY 32
		TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEG THERMOSTAT
Z	1	375 WATT HEATER

REVISIONS	
NAME	DATE

10/14/2004 10:56:22 AM

62583



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 175 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK-15 FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK-1/2 FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
F	1	VOLTAGE TRANSDUCER
G	1	15 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH A-20G0-B7-K
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 320 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE
P	3	BREAKER IP 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 1/0 AND 5 #6 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 3 PDT 25A RELAYS (W3B9ACX-15) (R1, R2, R3, R4), QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEG THERMOSTAT
Z	1	375 WATT HEATER

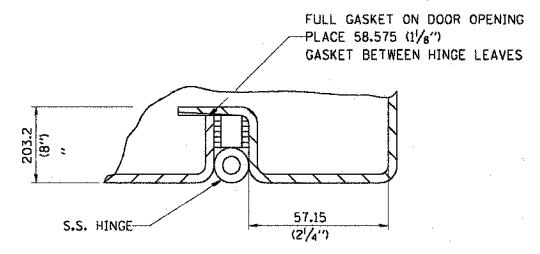
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 IDOT LIGHTING CONTROLLER, RADIO CONTROL DUPLEX TYPE WITH SCADA, SHT 2 OF 4
NAME	DATE	

SCALE: NOT TO SCALE DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

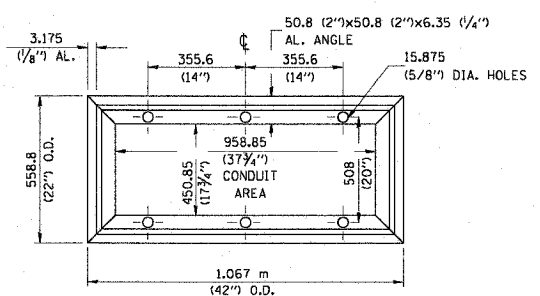
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	63
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

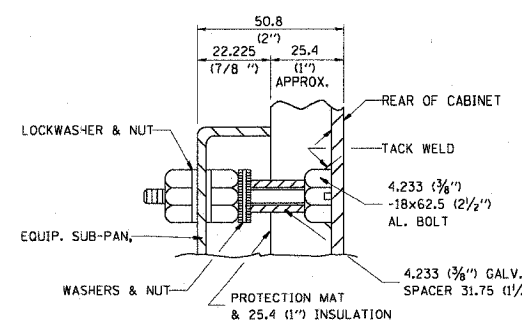
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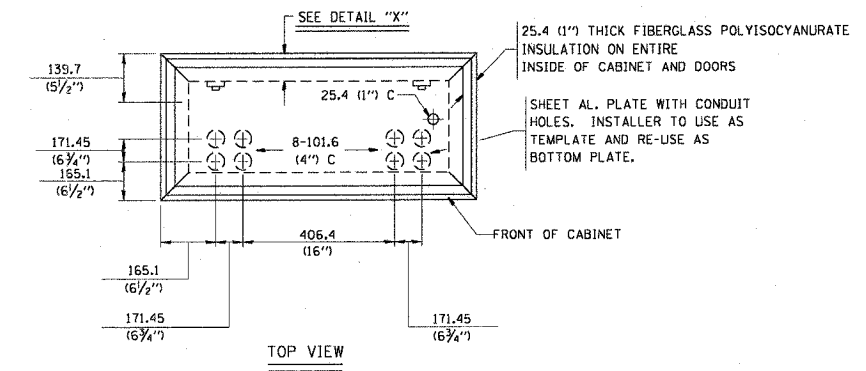
DETAIL "Y"



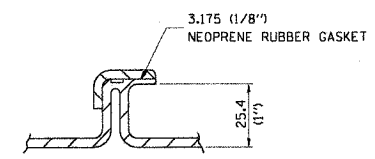
BASE MTC. DETAIL



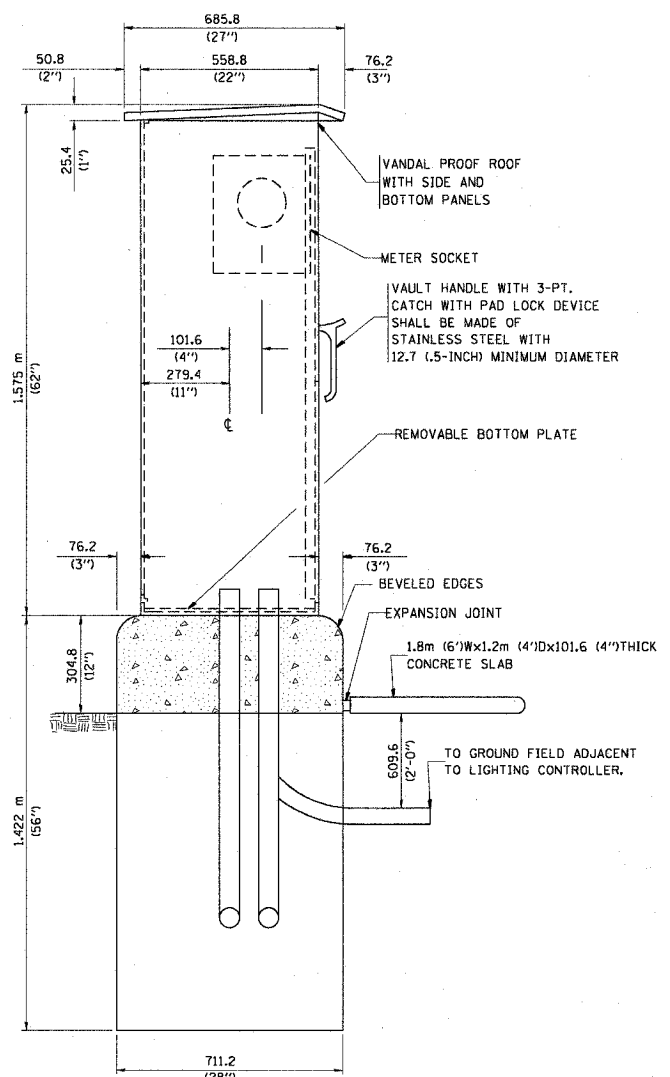
DETAIL "X"



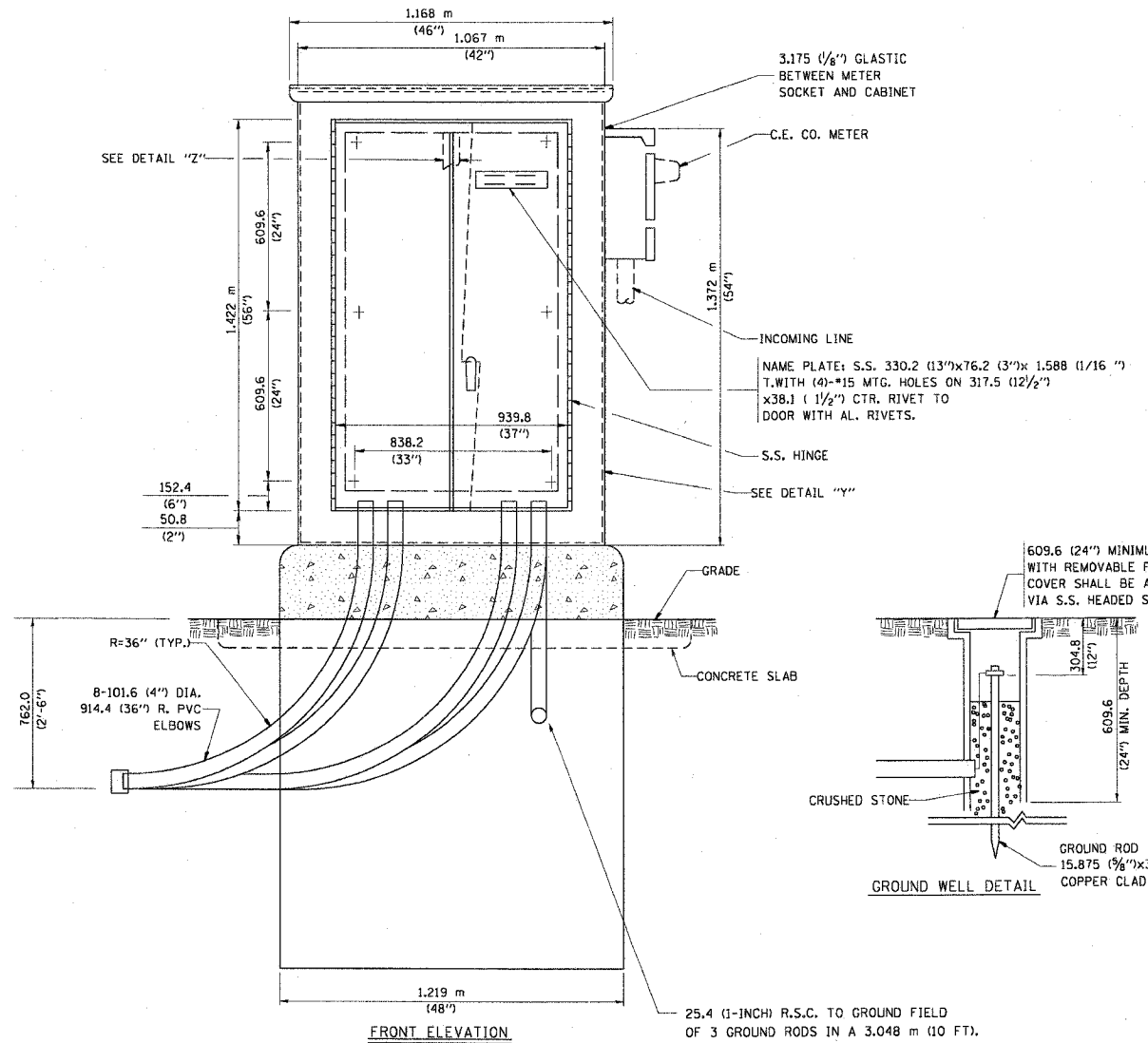
TOP VIEW



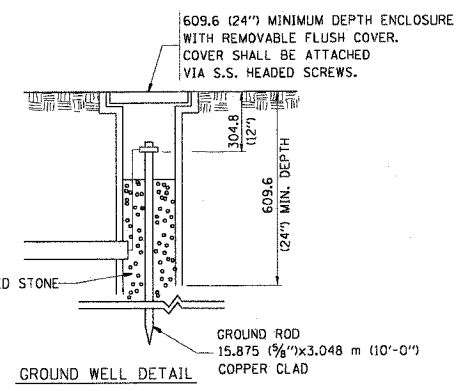
DETAIL "Z"



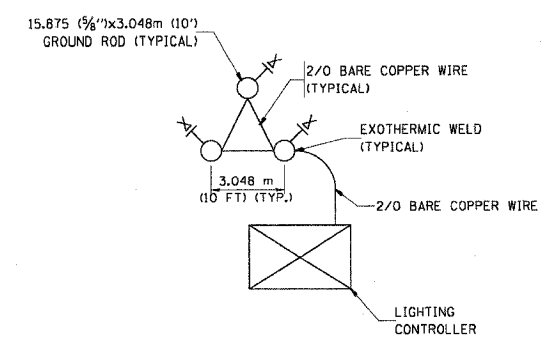
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

25.4 (1-INCH) R.S.C. TO GROUND FIELD OF 3 GROUND RODS IN A 3.048 m (10 FT). TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
IDOT LIGHTING CONTROLLER,
RADIO CONTROL DUPLEX TYPE
WITH SCADA, SHT 3 OF 4

SCALE: NOT TO SCALE
DATE: October 29, 2004
DRAWN BY: CJM
CHECKED BY: WDS

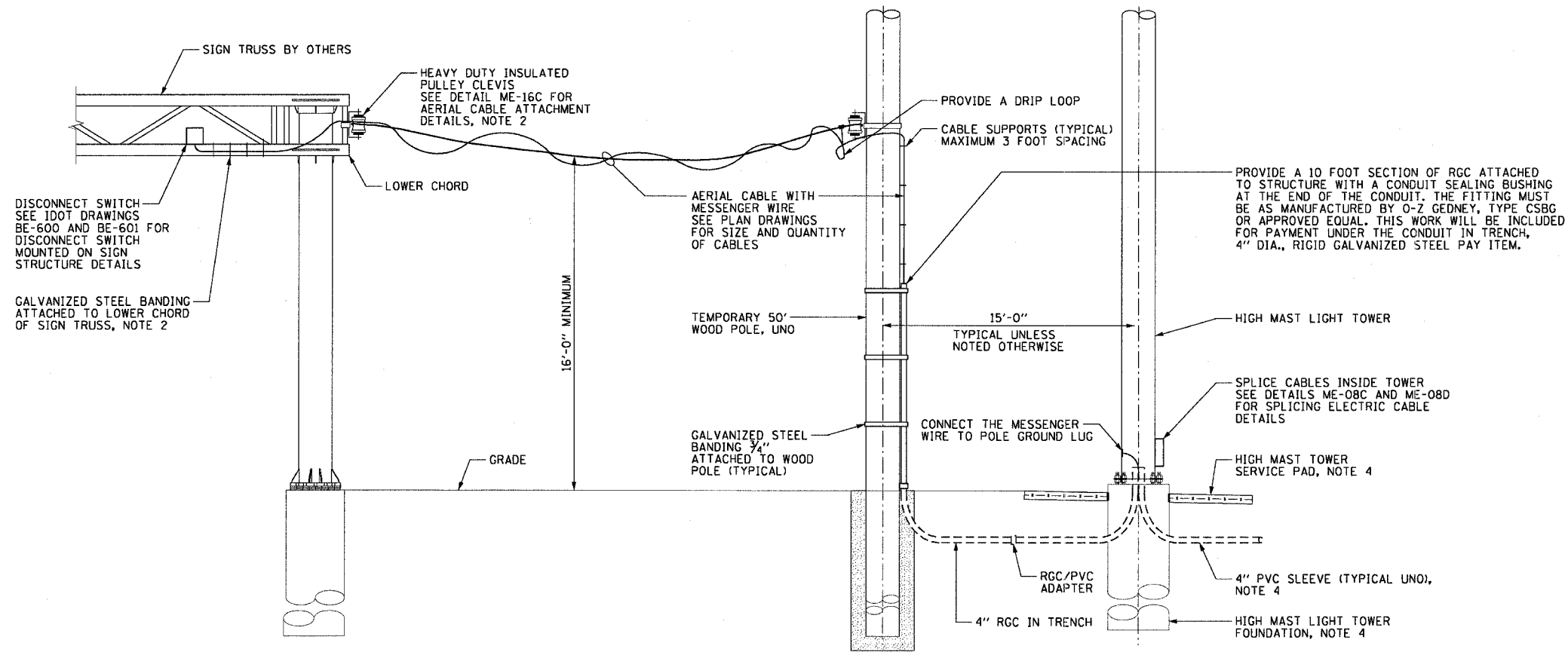
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	64
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

62583

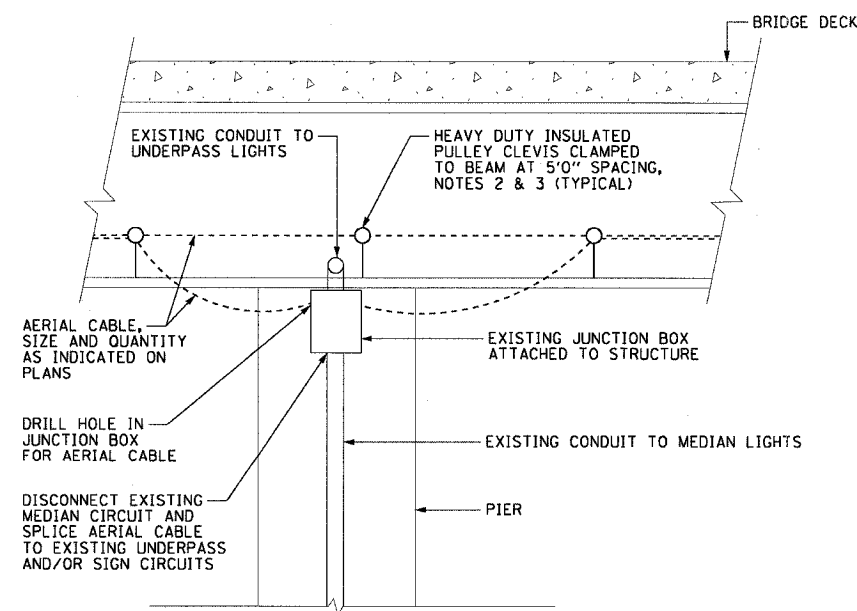
NOTES:

1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. ALL WORK TO FURNISH AND INSTALL ALL HARDWARE REQUIRED FOR MOUNTING THE AERIAL CABLE TO THE STRUCTURE WILL BE INCLUDED IN THE COST OF THE AERIAL CABLE PAY ITEM.
3. HEAVY DUTY INSULATED PULLEY CLEVIS AND CLAMPS MAY BE SUBSTITUTED WITH OTHER EQUIPMENT AND MOUNTING METHOD UPON APPROVAL FROM THE ENGINEER.
4. SEE DRAWING ME-13 FOR CONDUIT INSTALLATION DETAILS FOR GROUND MOUNTED HIGH MAST LIGHT TOWERS.



ME-25A TEMPORARY CONNECTION TO SIGN STRUCTURE DETAIL
NOT TO SCALE

NOTE: INSTALLATION DETAILS FOR TEMPORARY CONNECTION TO SIGN STRUCTURE SHOWN. TEMPORARY CONNECTION BETWEEN HIGH MAST TOWERS IS SIMILAR.



ME-25B AERIAL CABLE BRIDGE CROSSING DETAIL
NOT TO SCALE

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60601-5262, PHONE: (312) 538-0300

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
TEMPORARY POWER FEED TO SIGN STRUCTURE DETAILS
SCALE: NOT TO SCALE
DATE: October 29, 2004
DRAWN BY: CJM
CHECKED BY: WDS

ME-25

11/22/2004 10:01:37 AM

F.A.I. RTE. 90/94	SECTION 2003-03II	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 65
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 1)

HIGH MAST LIGHT TOWER IDENTIFICATION	TOWER LOCATION		TOP OF FDN. ELEV.	BOTTOM ELEVATION	DESIGN DEPTH (D)	FOUNDATIONS INSTALLED IN CONTRACT	TOWERS INSTALLED IN CONTRACT	REMARKS	CONCRETE CURB, TYPE B
	STATION	OFFSET							
6 AIJ2	118+20.0	LT 76.0	7.16	-14.84	22'	62583	62583	GROUND MOUNTED	YES
6 AIJ1	122+78.0	LT 75.3	4.40	-14.60	19'	62583	62583	GROUND MOUNTED	
6 ACD1	127+38.0	LT 75.8	7.49	-11.51	19'	62583	62583	GROUND MOUNTED	
6 AMN2	219+89.0	RT 53.4	3.58	-15.42	19'	62583	62583	GROUND MOUNTED	YES
6 AMN1	225+01.0	RT 63.7	8.37	-14.63	23'	62583	62583	GROUND MOUNTED	YES
6 AGH1	230+00.0	RT 74.7	11.88	-11.12	23'	62583	62583	GROUND MOUNTED	
6 ACD2	132+00.0	LT 76.0	6.87	-12.13	19'	62583	62583	GROUND MOUNTED	
6 ACD3	136+63.0	LT 77.1	7.72	-10.28	18'	62583	62583	GROUND MOUNTED	
6 ACD4	141+13.3	LT 110				62695	62583	GROUND MOUNTED IN KNEE WALL	
6 AGH2	235+02.0	RT 40.2	7.43	-12.57	20'	62583	62583	GROUND MOUNTED	
6 AGH3	334+81.4	RT 48.5	4.13	-17.87	22'	62583	62583	GROUND MOUNTED	YES
6 AGH4	244+51.0	RT 40.8	14.92	-6.08	21'	62583	62583	GROUND MOUNTED	
5 MMN5	415+50.0	RT 63.6	7.57	-12.43	20'	62583	62583	GROUND MOUNTED	
6 MMN4	420+53.0	LT 66.5	4.96	-14.04	19'	62583	62583	GROUND MOUNTED	
5 MAB1	2031+84.7	RT 97.1	4.13	-14.87	19'	62583	62583	GROUND MOUNTED	
6 MAB2	2036+88.4	RT 80.4	10.87	-12.13	23'	62583	62583	GROUND MOUNTED	
6 MIJ3	2027+51.3	RT 76.0	-3.77	-22.77	19'	62583	62583	GROUND MOUNTED	YES
5 AGH5	330+51.2	RT 39.0	-6.30	-26.30	20'	62583	62583	GROUND MOUNTED	
6 MMN3	424+23.0	RT 59.6	6.22	-16.78	23'	62583	62583	GROUND MOUNTED	
6 MIJ2	2022+92.3	RT 76.0	-1.43	-19.43	18'	62583	62583	GROUND MOUNTED	
6 MIJ1	2018+51.8	RT 76.0	3.06	-14.94	18'	62583	62583	GROUND MOUNTED	
6 MCD1	2013+46.6	RT 76.0	8.13	-11.87	20'	62583	62583	GROUND MOUNTED	
6 MMN2	1147+05.0	LT 70.0	5.95	-15.05	21'	62583	62583	GROUND MOUNTED	
6 MMN1	1142+55.0	LT 64.0	6.18	-12.82	19'	62583	62583	GROUND MOUNTED	
6 MKL1	1137+58.0	LT 64.0	9.21	-9.79	19'	62583	62583	GROUND MOUNTED	
5 MKL2	1132+90.0	LT 64.0	8.83	-10.17	19'	62583	62583	GROUND MOUNTED	
5 MKL3	1128+20.0	LT 64.0	8.11	-10.89	19'	62583	62583	GROUND MOUNTED	
5 MCD2	2008+53.0	RT 76.0	8.97	-10.03	19'	62583	62583	GROUND MOUNTED	
5 MCD3	2003+83.0	RT 76.0	7.79	-11.21	19'	62583	62583	GROUND MOUNTED	
6 ACD5	145+81.0	LT 77.1	5.18	-17.82	23'	62583	62583	GROUND MOUNTED	YES
5 OAB2	150+31.5	LT 75.3	3.15	-15.85	19'	62583	62583	GROUND MOUNTED	
6 OAB1	155+70.0	LT 60.0	0.66	-19.34	20'	62583	62583	GROUND MOUNTED	YES
6 MAB3	250+01.0	RT 39.9	16.71	-11.29	28'	62583	62583	GROUND MOUNTED	
6 OEF2	254+56.0	RT 67.7	14.05	-8.95	23'	62583	62583	GROUND MOUNTED	
6 OEF1	2205+20.0	RT 84.0	2.29	-17.71	20'	62583	62583	GROUND MOUNTED	YES

- NOTES:**
- SEE IDOT HIGH MAST LIGHT TOWER FOUNDATION STANDARD DETAIL BES01 FOR FOUNDATION DETAILS.
 - CONTRACTOR TO VERIFY SOIL CONDITIONS AT THE TIME OF FOUNDATION EXCAVATION AGAINST THE "SOIL CONDITIONS" TABLE ON STANDARD DETAIL BES01 AND MODIFY THE DESIGN DEPTH "D" AND BOTTOM ELEVATION AS NECESSARY.
 - SEE STRUCTURAL SHEETS UNDER CONTRACT 62594, 62694 AND 62695 FOR WALL MOUNTED HIGH MAST LIGHT TOWER FOUNDATION DETAILS.

62583

ES-01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
HIGH MAST TOWER FOUNDATION
SCHEDULE - SOUTH SECTION
SHEET 1

SCALE: NONE
DATE: OCTOBER 29, 2004

DRAWN BY: VG
CHECKED BY: TM

SINGH 300 N. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

10/21/2004 7:03:32 PM

F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94 2003-03II	COOK	976	66
STA. TO STA.		62583	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 1)

HIGH MAST LIGHT TOWER IDENTIFICATION	TOWER LOCATION		TOP OF FDN. ELEV.	BOTTOM ELEVATION	DESIGN DEPTH (D)	FOUNDATIONS INSTALLED IN CONTRACT	TOWERS INSTALLED IN CONTRACT	REMARKS
	STATION	OFFSET						
6 OMN4	2210+40.0	RT 84.0	1.72	-20.28	22'	62583	62583	GROUND MOUNTED
6 OMN3	2216+90.0	RT 125.3				62694	62583	WALL MOUNTED
6 OIJ4	1210+23.0	LT 84.0	2.50	-18.50	21'	62583	62583	GROUND MOUNTED
6 OIJ3	1216+86.3	LT 132.1				62695	62583	WALL MOUNTED
6 OIJ2	1221+75.0	LT 132.2				62695	62583	WALL MOUNTED
6 OIJ1	1226+66.0	LT 100.2	4.49			62695	62583	GROUND MOUNTED
6 OMN2	2221+99.3	RT 114.6				62694	62583	WALL MOUNTED
6 OMN1	2226+79.3	RT 114.6				62694	62583	WALL MOUNTED
6 OKL1	1231+80.7	LT 96.4	2.02	-20.98	23'	62583	62583	GROUND MOUNTED
6 OKL2	1236+00.0	LT 97.7	-2.46	-24.46	22'	62583	62583	GROUND MOUNTED
6 OKL3	1240+99.0	LT 110.8	5.66	-13.34	19'	62583	62583	GROUND MOUNTED
6 OOP1	2231+48.2	RT 127.0				62694	62583	WALL MOUNTED
6 OOP2	2236+18.0	RT 95.8				62694	62583	WALL MOUNTED
6 OOP3	2241+17.8	RT 116.9				62694	62583	WALL MOUNTED
6 OKL4	1246+01.1	LT 128.0				62695	62583	WALL MOUNTED
6 OCD1	1250+99.9	LT 128.0				62695	62583	WALL MOUNTED
6 OOP4	2246+35.8	RT 123.4				62694	62583	WALL MOUNTED
6 OGH1	2251+20.0	RT 106.2				62694	62583	WALL MOUNTED
6 OCD2	1256+00.0	LT 99.8	-6.49			62695	62583	GROUND MOUNTED
6 PAB4	1260+65.7	LT 101.0	2.33	-17.67	20'	62583	62583	GROUND MOUNTED
5 PAB3	1265+14.8	LT 100.2	1.92	-23.08	25'	62583	62583	GROUND MOUNTED
6 OGH2	2256+20.2	RT 107.2				62694	62583	WALL MOUNTED
5 OGH3	2260+92.9	RT 111.7				62694	62583	WALL MOUNTED
5 PEF5	2265+34.7	RT 125.8				62694	62583	WALL MOUNTED
5 PAB2	1269+51.9	LT 133.0				62695	62583	WALL MOUNTED
5 PAB1	1274+15.9	LT 104.1	8.49	-16.51	25'	62583	62583	GROUND MOUNTED
5 PIJ3	1278+64.7	LT 99.9	3.51	-15.49	19'	62583	62583	GROUND MOUNTED
5 PEF4	2269+85.0	RT 119.0	10.37			62694	62583	GROUND MOUNTED
5 PEF3	2274+34.1	RT 100.7	5.07	-17.93	23'	62583	62583	GROUND MOUNTED
5 PEF2	2278+85.3	RT 102.0	3.48	-15.52	19'	62583	62583	GROUND MOUNTED
5 PEF1	2283+34.0	RT 100.7	-5.29	-24.29	19'	62583	62583	GROUND MOUNTED
6 POP1	2287+40.0	RT 99.7	-3.64			62594	62583	GROUND MOUNTED WITH RETAINING WALL
6 POP2	2292+39.0	RT 124.0				62594	62594	WALL MOUNTED
5 PIJ2	1283+15.5	LT 100.1	-0.47	-19.47	19'	62583	62583	GROUND MOUNTED
6 PIJ1	1287+20.0	LT 81.0	-6.43			62594	62583	GROUND MOUNTED

- NOTES:**
- SEE IDOT HIGH MAST LIGHT TOWER FOUNDATION STANDARD DETAIL BES01 FOR FOUNDATION DETAILS. HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE REPLACES THE SOIL CONDITIONS TABLE ON STANDARD BES01.
 - SEE STRUCTURAL SHEETS UNDER CONTRACT 62594, 62694 AND 62695 FOR WALL MOUNTED HIGH MAST LIGHT TOWER FOUNDATION DETAILS.

ES-02

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
HIGH MAST TOWER FOUNDATION
SCHEDULE - SOUTH SECTION
SHEET 2

SCALE: NONE DRAWN BY: VG
DATE: OCTOBER 29, 2004 CHECKED BY: TM

10/21/2004 7:01:33 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	68
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 1)

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FDN. ELEV.	BOTTOM ELEVATION	DESIGN DEPTH (D)	FOUNDATION INSTALLED IN CONTRACT	TOWER INSTALLED IN CONTRACT	REMARKS
	STATION	OFFSET (NOTE 5)						
7 RCD2	1367+30	LT 111	-1.00	-22.00	21.71	62733	62733	GROUND MOUNTED
7 RGH5	2367+50	RT 112	-3.50	-22.50	19.71	62733	62733	GROUND MOUNTED
7 RCD3	1371+55	LT 115	0.00	-15.50	16.21	62590	62733	GROUND MOUNTED
7 RGH6	2371+75	RT 99	-6.25	-18.25	12.71	62590	62733	GROUND MOUNTED
7 RIAB5	1375+70	LT 138	1.85	-17.25	19.81	62590	62733	GROUND MOUNTED
7 RIEF5	2375+90	RT 152	-0.50	-19.00	19.21	62590	62733	GROUND MOUNTED
7 RIAB3	1380+05	LT 134	6.50	-12.50	19.72	62590	62733	GROUND MOUNTED
7 RIEF3	2380+25	RT 117	-0.50	-19.50	19.71	62590	62733	GROUND MOUNTED
7 RIAB2	1384+30	LT 152	5.00	-9.00	14.71	62590	62733	GROUND MOUNTED
7 RIEF2	2384+99	RT 131				62590	62733	EXISTING WALL
7 RIAB1	1388+65	LT 140	8.00	-10.50	19.21	62590	62733	GROUND MOUNTED
7 RIEF1	2388+85	RT 130	17.50	-8.00	26.21	62590	62733	GROUND MOUNTED
7 RICD1	1393+61	LT 136				62587	62733	MOUNTED ON WALL SN 016-W927
7 RIGH1	2393+06	RT 131				62590	62733	MOUNTED ON WALL SN 016-W930
7 RICD2	1397+12	LT 74	6.86	-15.50	23.07	62589	62733	GROUND MOUNTED
7 RIGH2	2397+00	RT 181	6.25	-13.00	19.96	62589	62733	GROUND MOUNTED
7 RICD3	1401+30	LT 100	12.70	-7.00	20.41	62589	62733	GROUND MOUNTED
7 RIGH3	6056+42	RT 41	40.00	17.00	23.71	62733	62733	GROUND MOUNTED
7 SAB4	1405+70	LT 195	17.80	-1.00	19.51	62589	62733	GROUND MOUNTED
7 RIGH4	2402+05	RT 73	7.25	-11.00	18.96	62589	62733	GROUND MOUNTED
7 SAB3	1409+95	LT 146	23.00	-4.00	27.71	62587	62733	GROUND MOUNTED
7 SEF4	2405+23	RT 189	20.85	0.00	21.56	62733	62733	GROUND MOUNTED
7 SAB2	1414+22	LT 122				62587	62733	MOUNTED ON WALL SN 016-W929
7 SEF3	2409+25	RT 151	23.15	0.00	23.86	62733	62733	GROUND MOUNTED
7 SAB1	1418+80	LT 146	7.40	-12.50	20.61	62589	62733	GROUND MOUNTED
7 SEF2	2414+25	RT 155	4.45	-13.50	18.66	62733	62733	GROUND MOUNTED
7 SCD1	1423+70.44	LT 124.53	13.38	-10.00	24.09	62693	62583	GROUND MOUNTED
7 SEF1	2419+35	RT 141	5.00	-14.00	19.71	62589	62733	GROUND MOUNTED
7 SCD2	1427+55.43	LT 170.87				62693	62583	MOUNTED ON FLUTED KNEE WALL
7 SGH1	2423+63.69	RT 134.64	9.12	-10.00	19.83	62693	62583	GROUND MOUNTED
7 SCD3	1431+55.44	LT 150.63	3.36	-12.00	16.07	62693	62583	GROUND MOUNTED
7 SGH2	2427+63.50	RT 127.84	5.23	-11.00	16.94	62693	62583	GROUND MOUNTED
7 SCD4	1435+55.44	LT 137.68	5.17	-17.00	22.88	62693	62583	GROUND MOUNTED
7 SGH3	2431+88.64	RT 154.72	3.70	-12.00	16.41	62693	62583	GROUND MOUNTED
7 TAB3	1439+47.68	LT 156.35				62693	62583	MOUNTED ON WALL SN 016-W903

62583

NOTES:

- SEE IDOT HIGH MAST LIGHT TOWER FOUNDATION STANDARD DETAIL BE501 FOR GROUND MOUNTED HIGH MAST LIGHT TOWER FOUNDATION DETAILS. HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE REPLACES THE SOIL CONDITIONS TABLE ON STANDARD BE501.
- REFER TO THE STRUCTURAL DRAWINGS OF THE INDIVIDUAL CONTRACTS LISTED IN THE SCHEDULE FOR RETAINING WALL MOUNTED HIGH MAST LIGHT TOWER FOUNDATION DETAILS.
- SEE DRAWING ME-03 FOR CONDUIT INSTALLATION DETAILS FOR LIGHT TOWER FOUNDATIONS MOUNTED ON RETAINING WALLS.
- SEE DRAWINGS ME-13, ME-13A, AND ME-13B FOR GROUND MOUNTED HIGH MAST LIGHT TOWER CONDUIT INSTALLATION, SERVICE PAD, AND RETAINING WALL DETAILS.
- OFFSET SHOWN IS TO CENTERLINE OF DRILLED SHAFT.

ES-04

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
HIGH MAST TOWER FOUNDATION
SCHEDULE - CENTER SECTION
SHEET 1
SCALE: NONE DRAWN BY: HAR
DATE: October 29, 2004 CHECKED BY: WDS



02/15/2004 02:33:19 PM

F.A.I. RTE. 90/94	SECTION 2003-0311	COUNTY COOK	TOTAL SHEETS 976	SHEET NO. 69
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 1)

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FDN. ELEV.	BOTTOM ELEVATION	DESIGN DEPTH (D)	FOUNDATION INSTALLED IN CONTRACT	TOWER INSTALLED IN CONTRACT	REMARKS
	STATION	OFFSET (NOTE 5)						
7 SGH4	2435+88.59	RT 144.72	1.81	-11.00	13.52	62693	62583	GROUND MOUNTED
7 TAB2	1444+02.38	LT 135.79				62693	62583	MOUNTED ON WALL SN 016-W964
7 TEF3	2439+94.39	RT 166.24				62693	62583	MOUNTED ON WALL SN 016-W886
7 TAB1	1447+96.49	LT 147.28	2.84	-13.00	16.55	62693	62583	GROUND MOUNTED
7 TEF2	2443+95.04	RT 159.08				62693	62583	MOUNTED ON WALL SN 016-W886
7 TCD1	1452+20	LT 165	6.25	-12.50	19.46	62586	62733	GROUND MOUNTED
7 TEF1	2448+01.72	RT 139.82				62693	62583	MOUNTED ON WALL SN 016-W887, W965
7 TCD2	1456+26	LT 139				62586	62733	MOUNTED ON WALL SN 016-W909
7 TGH1	2452+52	RT 135				62586	62733	MOUNTED ON WALL SN 016-W888
7 TCD3	1461+24	LT 135				62586	62733	MOUNTED ON WALL SN 016-W909
7 TGH2	2456+84	RT 132				62586	62733	MOUNTED ON WALL SN 016-W889
7 T1AB3	1464+95	LT 109				62586	62733	MOUNTED ON BARRIER WALL
7 TGH3	2460+80	RT 135				62586	62733	MOUNTED ON WALL SN 016-W890
7 T1AB2	1469+49	LT 111				62586	62733	MOUNTED ON WALL SN 016-W912
7 T1EF3	2465+13	RT 111				62586	62733	MOUNTED ON WALL SN 016-W893
7 T1AB1	1473+29	LT 123				62586	62733	MOUNTED ON WALL SN 016-W912
7 T1EF2	2469+79	RT 119				62586	62733	MOUNTED ON WALL SN 016-W893
7 T1CD2	1477+74	LT 110				62586	62733	MOUNTED ON WALL SN 016-W913
7 T1EF1	2473+35	RT 126				62586	62733	MOUNTED ON WALL SN 016-W893
7 T1CD3	1481+79	LT 112				62586	62733	MOUNTED ON WALL SN 016-W913
7 T1GH2	2477+62	RT 124				62586	62733	MOUNTED ON WALL SN 016-W897
7 T1CD4	1486+10	LT 113				62586	62733	MOUNTED ON BARRIER WALL
7 T1KL1	2481+87	RT 111				62586	62733	MOUNTED ON WALL SN 016-W897
7 T1CD5	1490+42	LT 132				62586	62733	MOUNTED ON WALL SN 016-W914, W916 AND W917
7 T1KL2	2486+30	RT 108				62586	62733	MOUNTED ON BARRIER WALL
7 T11J1	1494+82	LT 132				62586	62733	MOUNTED ON WALL SN W914, W916, AND W917
7 T1KL3	2490+44	RT 132				62586	62733	MOUNTED ON WALL SN 016-W898
7 T11J2	1498+73	LT 132				62586	62733	MOUNTED ON WALL SN 016-W914, W916, AND W917
7 T1KL4	2495+25	RT 132				62586	62733	MOUNTED ON WALL SN 016-W899
7 UIJ4	1503+05	LT 112				62586	62733	MOUNTED ON WALL SN 016-W918
7 UMN1	2498+99	RT 130				62586	62733	MOUNTED ON WALL SN 016-W900
7 UIJ3	1508+02	LT 159				62586	62733	MOUNTED ON WALL SN 016-W918
7 UKL2	2503+47	RT 128				62586	62733	MOUNTED ON WALL SN 016-W902
7 UIJ2	1512+35	LT 192	17.05	-7.00	24.76	62586	62733	GROUND MOUNTED
7 UKL1	2507+96	RT 146				62586	62733	MOUNTED ON WALL SN 016-W902

62583

NOTES:

- SEE IDOT HIGH MAST LIGHT TOWER FOUNDATION STANDARD DETAIL BES01 FOR GROUND MOUNTED HIGH MAST LIGHT TOWER FOUNDATION DETAILS. HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE REPLACES THE SOIL CONDITIONS TABLE ON STANDARD BES01.
- REFER TO THE STRUCTURAL DRAWINGS OF THE INDIVIDUAL CONTRACTS LISTED IN THE SCHEDULE FOR RETAINING WALL MOUNTED HIGH MAST LIGHT TOWER FOUNDATION DETAILS.
- SEE DRAWING ME-03 FOR CONDUIT INSTALLATION DETAILS FOR LIGHT TOWER FOUNDATIONS MOUNTED ON RETAINING WALLS.
- SEE DRAWINGS ME-13, ME-13A, AND ME-13B FOR GROUND MOUNTED HIGH MAST LIGHT TOWER CONDUIT INSTALLATION, SERVICE PAD, AND RETAINING WALL DETAILS.
- OFFSET SHOWN IS TO CENTERLINE OF DRILLED SHAFT.

ES-05



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

HIGH MAST TOWER FOUNDATION
SCHEDULE - CENTER SECTION
SHEET 2

SCALE: NONE DRAWN BY: HAR
DATE: October 29, 2004 CHECKED BY: WDS

10/15/2004 02:33:29 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	71
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62583

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 1)

HIGH MAST LIGHT TOWER IDENTIFICATION	TEMPORARY HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FDN. ELEV.	BOTTOM ELEVATION	DESIGN DEPTH (D)	FOUNDATION INSTALLED IN CONTRACT	TOWER INSTALLED IN CONTRACT	REMARKS
		STATION	OFFSET						
7 UCD1		3530+20	LT 76	6.95	-11.05	18	62583	62583	GROUND MOUNTED
7 UGH1		4530+50	RT 82	19.13	1.13	18	62301	62583	MOUNTED ON WALL N-47N-F
8 UCD2		3534+30	LT 74	13.45	-8.55	22	62303	62583	MOUNTED ON WALL S-47N-R
8 UGH2		4534+60	RT 63	18.71	0.17	18	62301	62583	MOUNTED ON WALL N-47N-F
7 VIJ3		3538+35	LT 86	19.88	-4.12	24	62303	62583	MOUNTED ON WALL S-47N-F
7 UGH3		4538+70	RT 97	14.96	-20.04	35	62583	62583	GROUND MOUNTED
7 VIJ2		3542+35	LT 93	11.40	-13.60	25	62583	62583	GROUND MOUNTED
7 VMN3		4542+80	RT 88	14.05	-9.95	24	62583	62583	GROUND MOUNTED
7 VIJ1		3546+45	LT 88	10.69	-13.31	24	62583	62583	GROUND MOUNTED
7 VMN2		4546+85	RT 88	11.22	-9.78	21	62583	62583	GROUND MOUNTED
7 VAB4		3550+55	LT 107	9.41	-25.59	35	62583	62583	GROUND MOUNTED
7 VMN1		4550+95	RT 107.5	10.10	-13.90	24	62583	62583	GROUND MOUNTED
7 VAB3		3554+65	LT 88	4.62	-17.38	22	62583	62583	GROUND MOUNTED
7 VEF3		4555+05	RT 88	1.90	-22.10	24	62583	62583	GROUND MOUNTED
7 VAB2		3558+75	LT 87	8.12	-26.88	35	62583	62583	GROUND MOUNTED
7 VEF2		4559+15	RT 77	5.98	-29.02	35	62583	62583	GROUND MOUNTED
7 VAB1		3562+80	LT 112	6.00	-18.00	24	62583	62583	GROUND MOUNTED
7 VEF1		4563+20	RT 101	5.75	-24.25	30	62583	62583	GROUND MOUNTED
7 VCD1		3566+85	LT 88	0.24	-17.76	18	62583	62583	GROUND MOUNTED
7 VGH1		4567+25	RT 88	1.38	-16.62	18	62583	62583	GROUND MOUNTED
7 VCD2		3570+90	LT 88	4.71	-13.29	18	62583	62583	GROUND MOUNTED
7 VGH2		4571+30	RT 88	0.75	-17.25	18	62583	62583	GROUND MOUNTED
7 VCD3		3575+20	LT 101	6.89	-17.11	24	62583	62583	GROUND MOUNTED
7 VGH3		4575+60	RT 103	3.30	-20.70	24	62583	62583	GROUND MOUNTED
7 VCD4		3579+50	LT 76	2.72	-15.28	18	62583	62583	GROUND MOUNTED
7 VGH4		4579+90	RT 78	1.13	-16.87	18	62583	62583	GROUND MOUNTED
7 WAB6	7 WIJ3	1583+95	LT 144	3.25	-14.75	18	62585	62733	GROUND MOUNTED
7 WEF6	7 WMN3	2584+20	RT 146	2.05	-32.95	35	62584	62733	GROUND MOUNTED
7 WAB5	7 WIJ2	1587+90	LT 153	10.09	-24.91	35	62585	62733	GROUND MOUNTED
7 WEF5	7 WMN2	2588+20	RT 173	10.54	-11.46	22	62584	62733	GROUND MOUNTED
7 WAB4	7 WIJ1	1591+95	LT 160	11.97	-23.03	35	62585	62733	GROUND MOUNTED
7 WEF4	7 WMN1	2592+20	RT 144	13.80	-10.20	24	62584	62733	GROUND MOUNTED
7 WAB3		1595+95	LT 144	14.73	-20.27	35	62585	62733	GROUND MOUNTED

NOTES:

- SEE IDOT HIGH MAST LIGHT TOWER FOUNDATION STANDARD DETAIL BE501 FOR FOUNDATION DETAILS. HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE REPLACES THE SOIL CONDITIONS TABLE ON STANDARD BE501.
- WHEN ROCK IS ENCOUNTERED, THE ENGINEER SHALL EXAMINE IF THE MATERIAL QUALIFIES AS ROCK EXCAVATION IN ACCORDANCE WITH SECTION 502 OF THE STANDARD SPECIFICATIONS. THIS EXCAVATION SHALL BE PAID AT UNIT PRICE PER CUBIC YARD FOR "ROCK EXCAVATION FOR STRUCTURES".

ES-07



KAM ENGINEERING, INC.
CONSULTING ENGINEERS
707A Davis Road, Suite 205
Elgin, Illinois 60123-1369

REVISIONS	
NAME	DATE
REVISED	1/21/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

**HIGH MAST TOWER FOUNDATION
SCHEDULE - TOP SECTION
SHEET 1**

SCALE: NONE
DATE: OCTOBER 29, 2004
DRAWN BY: BL
CHECKED BY: SM

01/24/2005 03:36:36 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-0311	COOK	976	22
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 1)

HIGH MAST LIGHT TOWER IDENTIFICATION	TEMPORARY HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER LOCATION		TOP OF FDN. ELEV.	BOTTOM ELEVATION	DESIGN DEPTH (D)	FOUNDATION INSTALLED IN CONTRACT	TOWER INSTALLED IN CONTRACT	REMARKS
		STATION	OFFSET						
7 WEF3	7 WEF4	2596+20	RT 144	13.97	-11.03	25	62584	62733	GROUND MOUNTED
7 WAB2		1599+95	LT 144	13.27	-21.73	35	62585	62733	GROUND MOUNTED
7 WEF2	7 WEF3	2600+20	RT 162	11.71	-13.29	25	62584	62733	GROUND MOUNTED
7 WAB1		1603+03	LT 187	-	-	-	62585	62733	MOUNTED ON WALL S-35S-F
7 WEF1	7 WEF2	2604+20	RT 153	8.88	-16.12	25	62584	62733	GROUND MOUNTED
7 WCD1		1607+95	LT 156	8.00	-27.00	35	62585	62733	GROUND MOUNTED
7 WGH1	7 WEF1	2608+20	RT 146	4.71	-20.29	25	62584	62733	GROUND MOUNTED
7 WCD2		1611+95	LT 156	9.88	-25.12	35	62585	62733	GROUND MOUNTED
7 WGH2	7 WGH1	2612+20	RT 142	7.38	-17.62	25	62584	62733	GROUND MOUNTED
7 WCD3		1616+51	LT 182	-	-	-	62585	62733	MOUNTED ON WALL S-33S-F
7 WGH3	7 WGH2	2616+70	RT 161	8.18	-26.82	35	62584	62733	GROUND MOUNTED
7 WCD4		1620+95	LT 156	5.56	-29.44	35	62585	62733	GROUND MOUNTED
7 WGH4	7 WGH3	2621+20	RT 152	4.77	-30.23	35	62584	62733	GROUND MOUNTED
7 WCD5	7 WKL1	1625+35	LT 156	6.22	-28.78	35	62585	62733	GROUND MOUNTED
7 WGH5	7 WGH4	2625+60	RT 156	4.85	-30.15	35	62584	62733	GROUND MOUNTED
7 WCD6	7 WKL2	1629+75	LT 171	12.17	-5.83	18	62585	62733	GROUND MOUNTED
7 XEF6		2630+00	RT 179	-	-	-	62584	62733	MOUNTED ON WALL N-33N-F
7 WCD7	7 WKL3	1633+97	LT 166	-	-	-	62585	62733	MOUNTED ON WALL S-31S-R
8 XEF5		2634+47	RT 168	-	-	-	62584	62733	MOUNTED ON WALL N-31S-R

NOTES:

- SEE IDOT HIGH MAST LIGHT TOWER FOUNDATION STANDARD DETAIL BE501 FOR FOUNDATION DETAILS. HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE REPLACES THE SOIL CONDITIONS TABLE ON STANDARD BE501.
- WHEN ROCK IS ENCOUNTERED, THE ENGINEER SHALL EXAMINE IF THE MATERIAL QUALIFIES AS ROCK EXCAVATION IN ACCORDANCE WITH SECTION 502 OF THE STANDARD SPECIFICATIONS. THIS EXCAVATION SHALL BE PAID AT UNIT PRICE PER CUBIC YARD FOR "ROCK EXCAVATION FOR STRUCTURES".

ES-08

K&E KAM ENGINEERING, INC.
CONSULTING ENGINEERS
707A Davis Road, Suite 205
Elgin, Illinois 60123-1369

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

**HIGH MAST TOWER FOUNDATION
SCHEDULE - TOP SECTION
SHEET 2**

SCALE: NONE DRAWN BY: BL
DATE: OCTOBER 29, 2004 CHECKED BY: SM

11/22/2004 03:41:43 PM

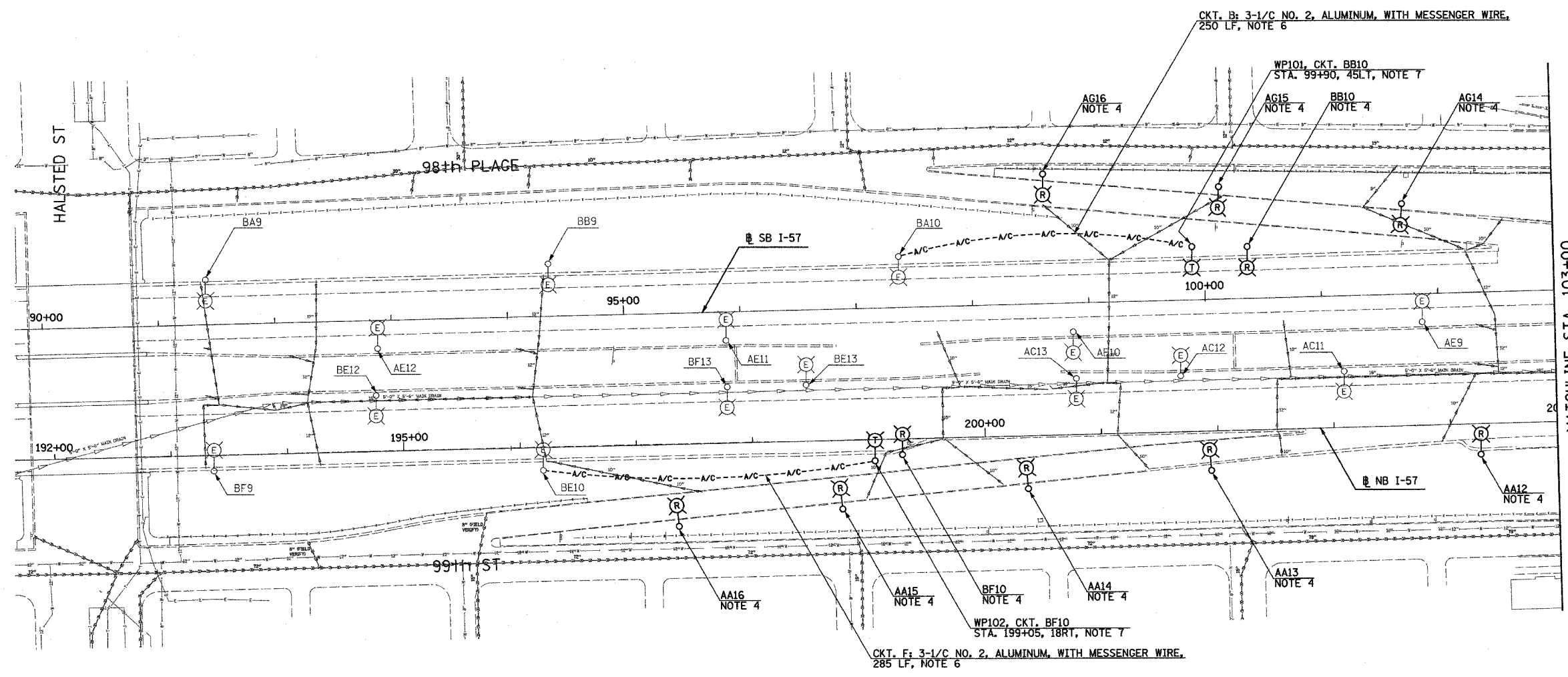
F.A.I. RYE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	73
STA.	90+00	TO STA.	103+00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
3. THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. REMOVAL OF LIGHT POLE AND LUMINAIRE ARE PART OF CONTRACT 62583. FOUNDATION REMOVAL SHALL BE PART OF CONTRACT 62694 AND 62695. COORDINATE REMOVAL SCHEDULE WITH CIVIL CONTRACTS 62694 AND 62695 OR AS OTHERWISE DIRECTED BY THE ENGINEER.
5. TEMPORARY RAMP LIGHTING NOT REQUIRED DUE TO RAMP CLOSING.
6. REFER SHEET ME-16 FOR TEMPORARY AERIAL CABLE CONNECTION.
7. PROVIDE TEMPORARY LIGHTING UNIT INCLUDING 60 FOOT WOOD POLE, 8' MAST ARM, 400 WATT HPS LUMINAIRE. PAY ITEM FOR WOOD POLE, MAST ARM, AND LUMINAIRE SHALL BE "WOOD LIGHTING POLE, 60 FOOT, CLASS 4".
8. REMOVAL INDICATED ON THIS SHEET, SHALL BE FOR RAMP AND SIGNS. MAINLINE REMOVALS SHALL BE NOTED ON PROPOSED IMPROVEMENT PLANS.



EL-01

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 ROADWAY LIGHTING PLANS EXISTING CONDITIONS, TEMPORARY AND REMOVAL
NAME	DATE	

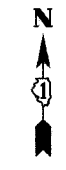
SCALE: 1"=50' DRAWN BY: SP
DATE: OCTOBER 29, 2004 CHECKED BY: TM

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60608
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

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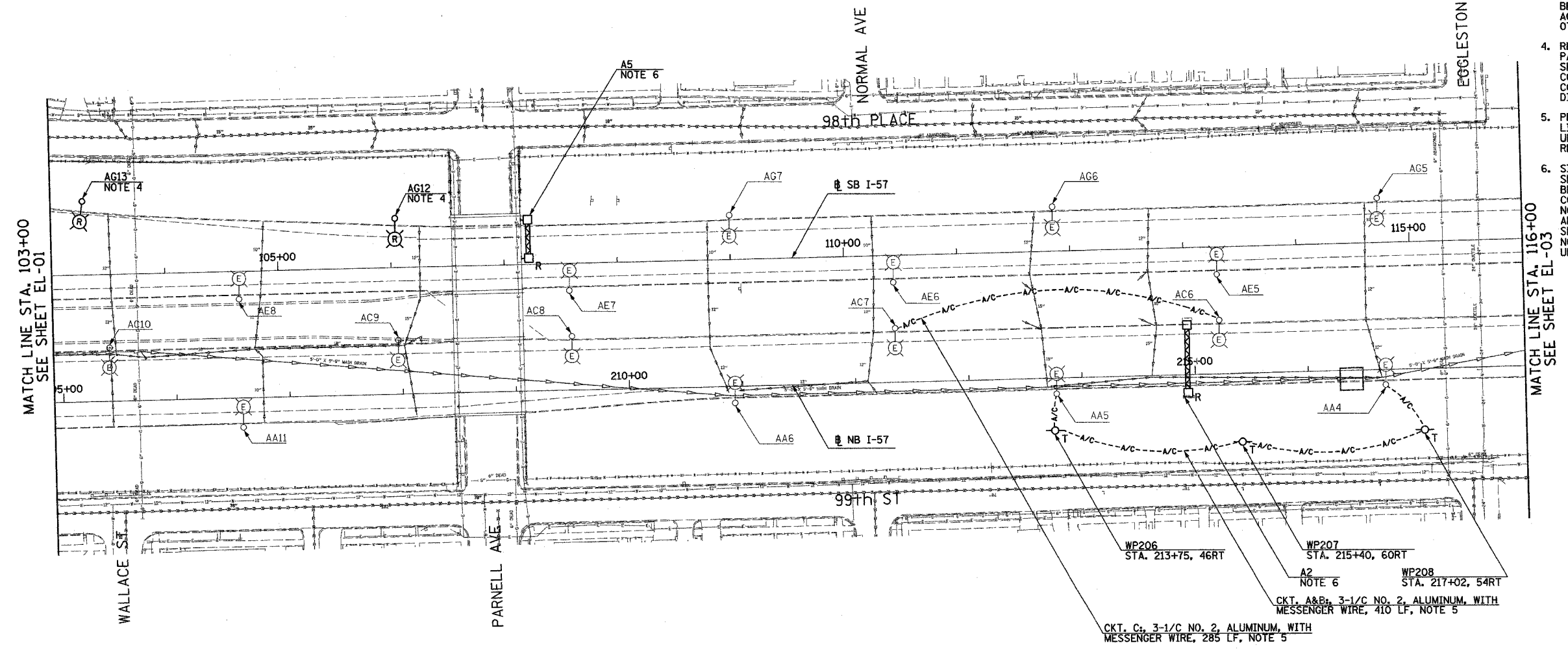
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	74
STA. 103+00		TO STA. 116+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
- THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- REMOVAL OF LIGHT POLE AND LUMINAIRE ARE PART OF CONTRACT 62583. FOUNDATION REMOVAL SHALL BE PART OF CONTRACT 62694 AND 62695. COORDINATE REMOVAL SCHEDULE WITH CIVIL CONTRACTS 62694 AND 62695 OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT REMOVAL OF SIGN UNDER SEPARATE CONTRACT. REFER TO SHEET ME-16.
- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED SIGN A4 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN A2 SHALL BE DISCONNECTED. NOTE: SIGN A5 SHALL REMAIN IN OPERATION UNTIL HALSTED STREET RAMP IS CLOSED.



EL-02

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57

ROADWAY LIGHTING PLANS EXISTING
 CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50'
 DATE: OCTOBER 29, 2004

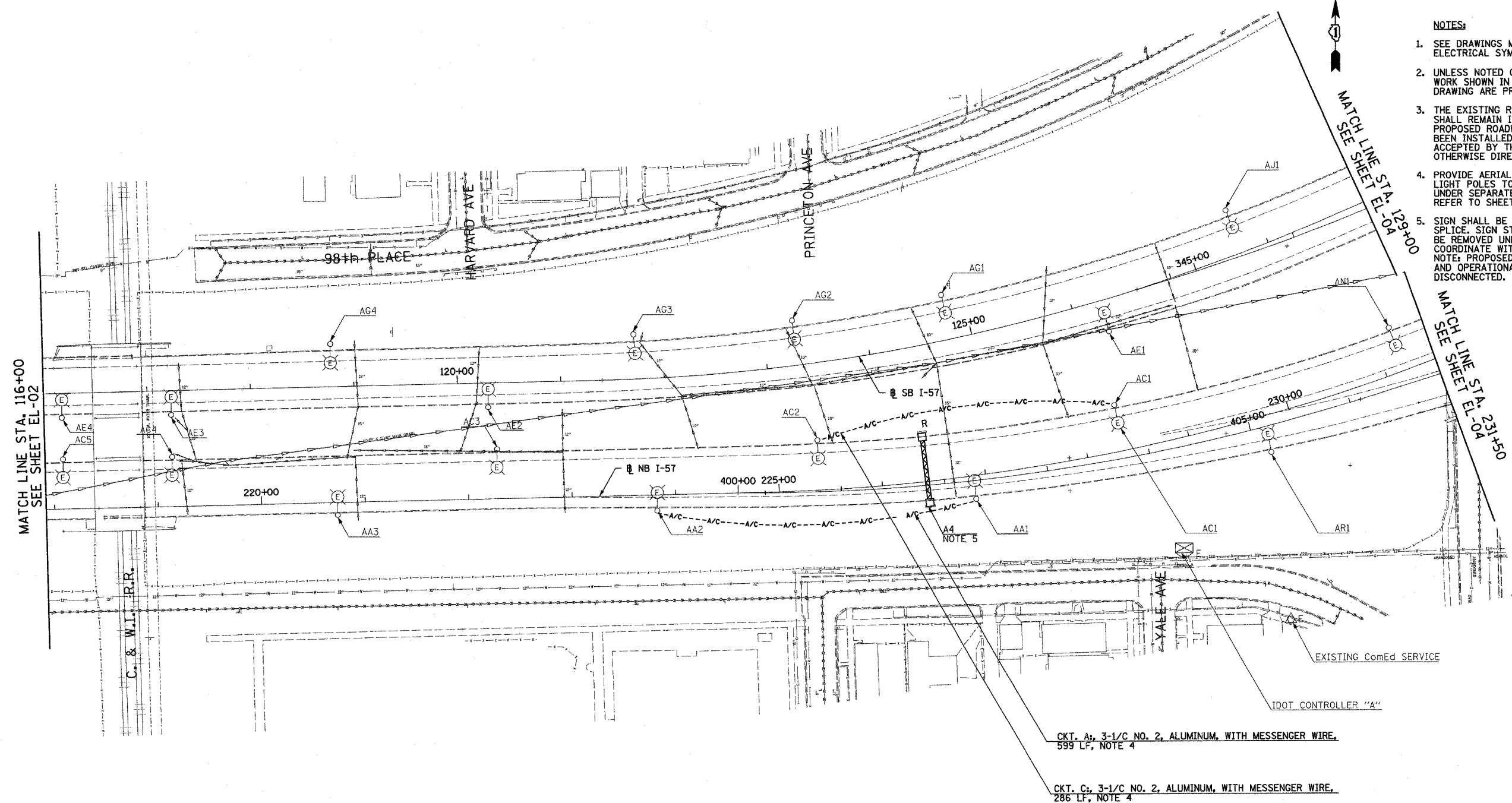
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 CHECKED BY: TM

SINGH 300 W. ADAMS ST.
 CHICAGO, IL 60606
 SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
 CONSULTING ENGINEERS FAX: (312) 629-8449

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F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94 2003-0311	COOK	976	75
STA. 116+00	TO STA. 129+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	62583

- NOTES:
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
 - UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
 - THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT REMOVAL OF SIGN UNDER SEPARATE CONTRACT. REFER TO SHEET ME-16.
 - SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED SIGN A3 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN A4 IS DISCONNECTED.



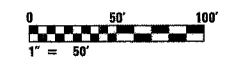
MATCH LINE STA. 116+00
SEE SHEET EL-02

MATCH LINE STA. 129+00
SEE SHEET EL-04

MATCH LINE STA. 130+150
SEE SHEET EL-04

CKT. A: 3-1/C NO. 2, ALUMINUM, WITH MESSENGER WIRE,
599 LF, NOTE 4

CKT. C: 3-1/C NO. 2, ALUMINUM, WITH MESSENGER WIRE,
286 LF, NOTE 4



EL-03

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ROADWAY LIGHTING PLANS EXISTING
CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50' DRAWN BY: SP
DATE: OCTOBER 29, 2004 CHECKED BY: TM

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SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

300 W. ADAMS ST.
CHICAGO, IL 60608
TEL: (312) 629-0240
FAX: (312) 629-8449

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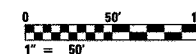
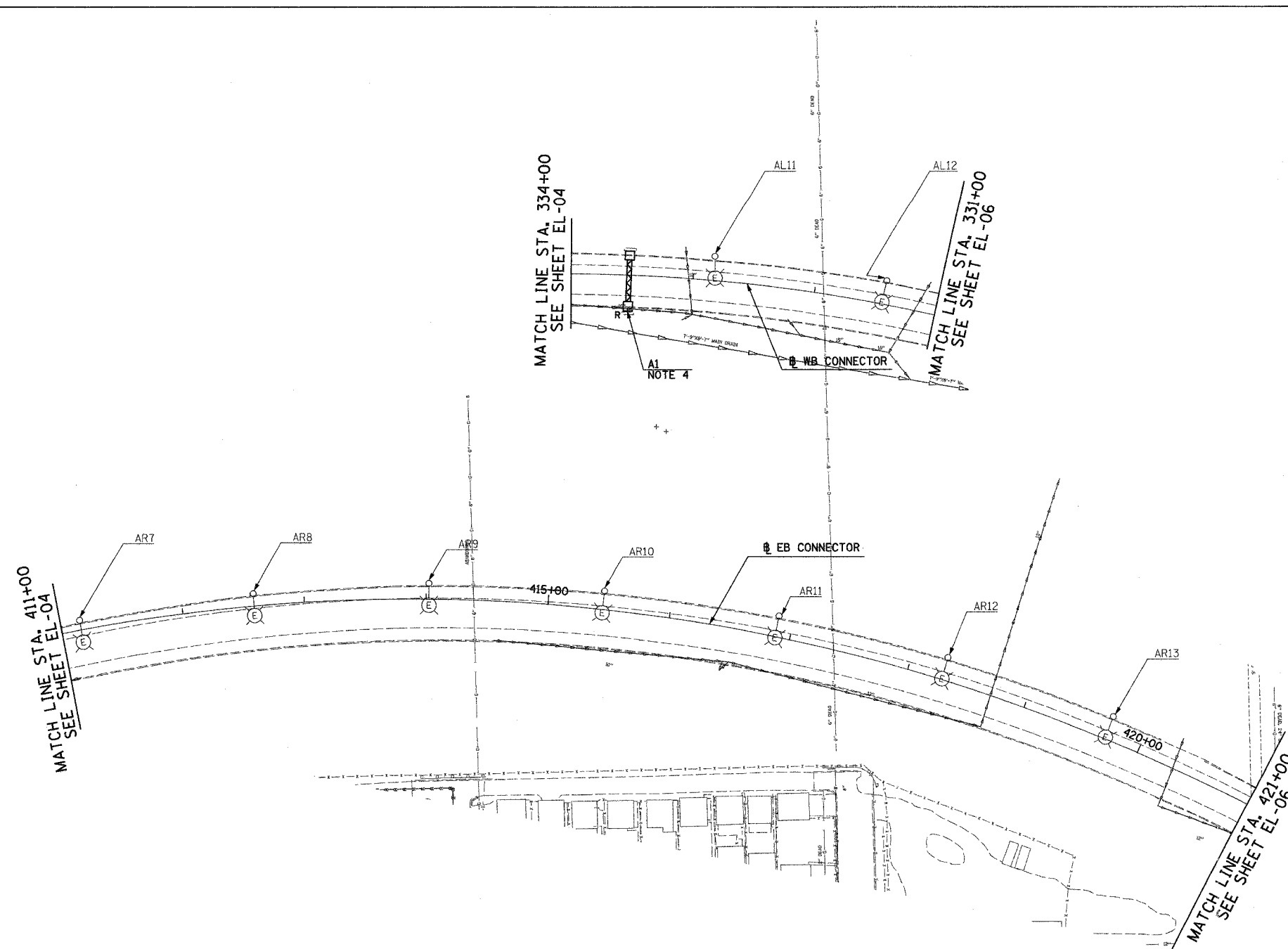
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	77
STA. 411+00		TO STA. 421+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
- THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED SIGN A8 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN A1 IS DISCONNECTED.



EL-05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57

ROADWAY LIGHTING PLANS EXISTING
 CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50'

DRAWN BY: SP

DATE: OCTOBER 29, 2004

CHECKED BY: TM

SINGH
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS

300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

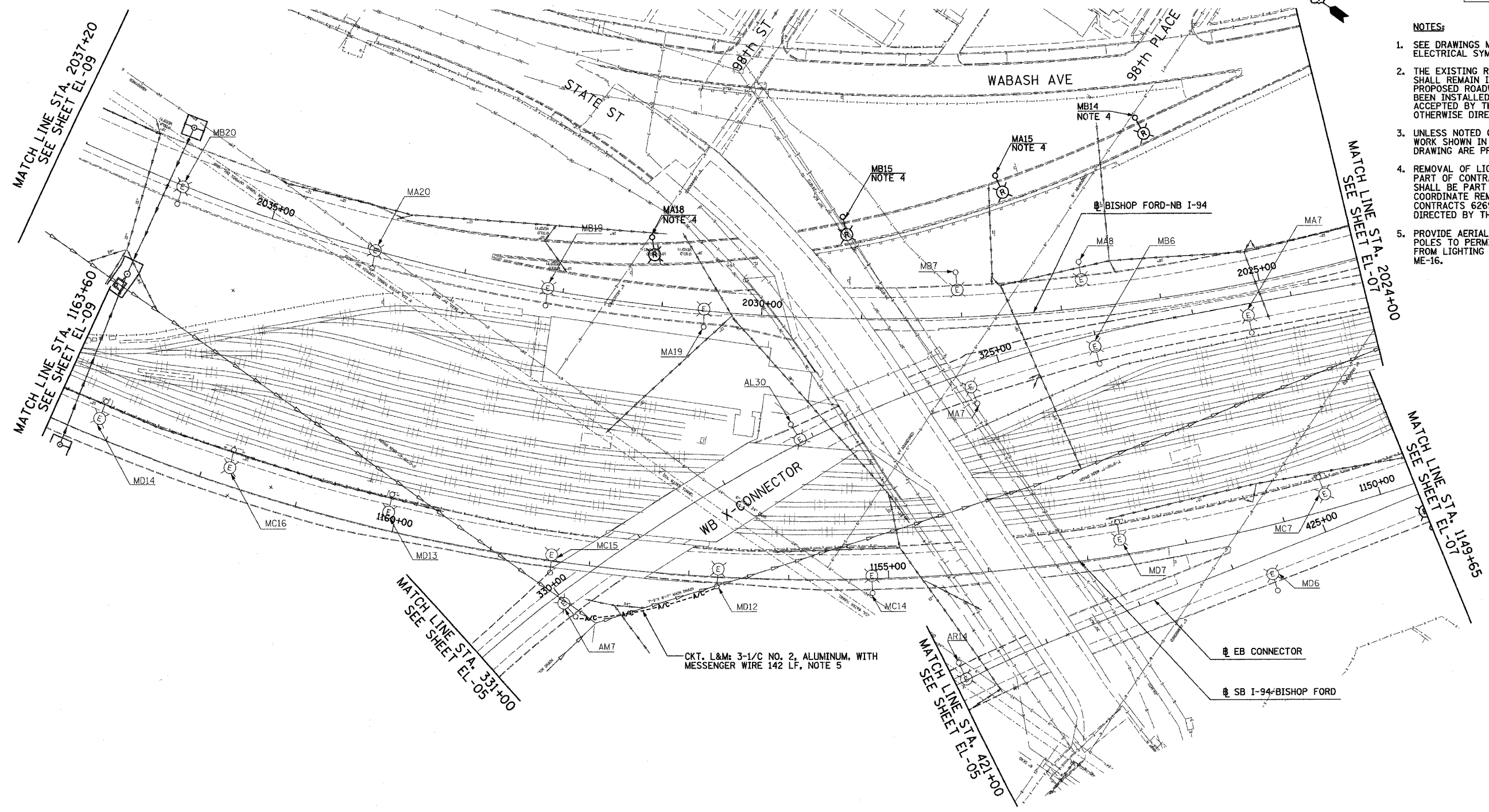
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	78
STA. 2037+20		TO STA. 2024+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

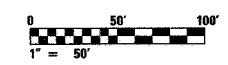
62583

NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.
- REMOVAL OF LIGHT POLE AND LUMINAIRE ARE PART OF CONTRACT 62583. FOUNDATION REMOVAL SHALL BE PART OF CONTRACT 62694 AND 62695. COORDINATE REMOVAL SCHEDULE WITH CIVIL CONTRACTS 62694 AND 62695 OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT ENERGIZING CKT. AM AND AN FROM LIGHTING CONTROLLER M. REFER TO SHEET ME-16.



CKT. L&M: 3-1/C NO. 2, ALUMINUM, WITH MESSENGER WIRE 142 LF, NOTE 5



EL-06

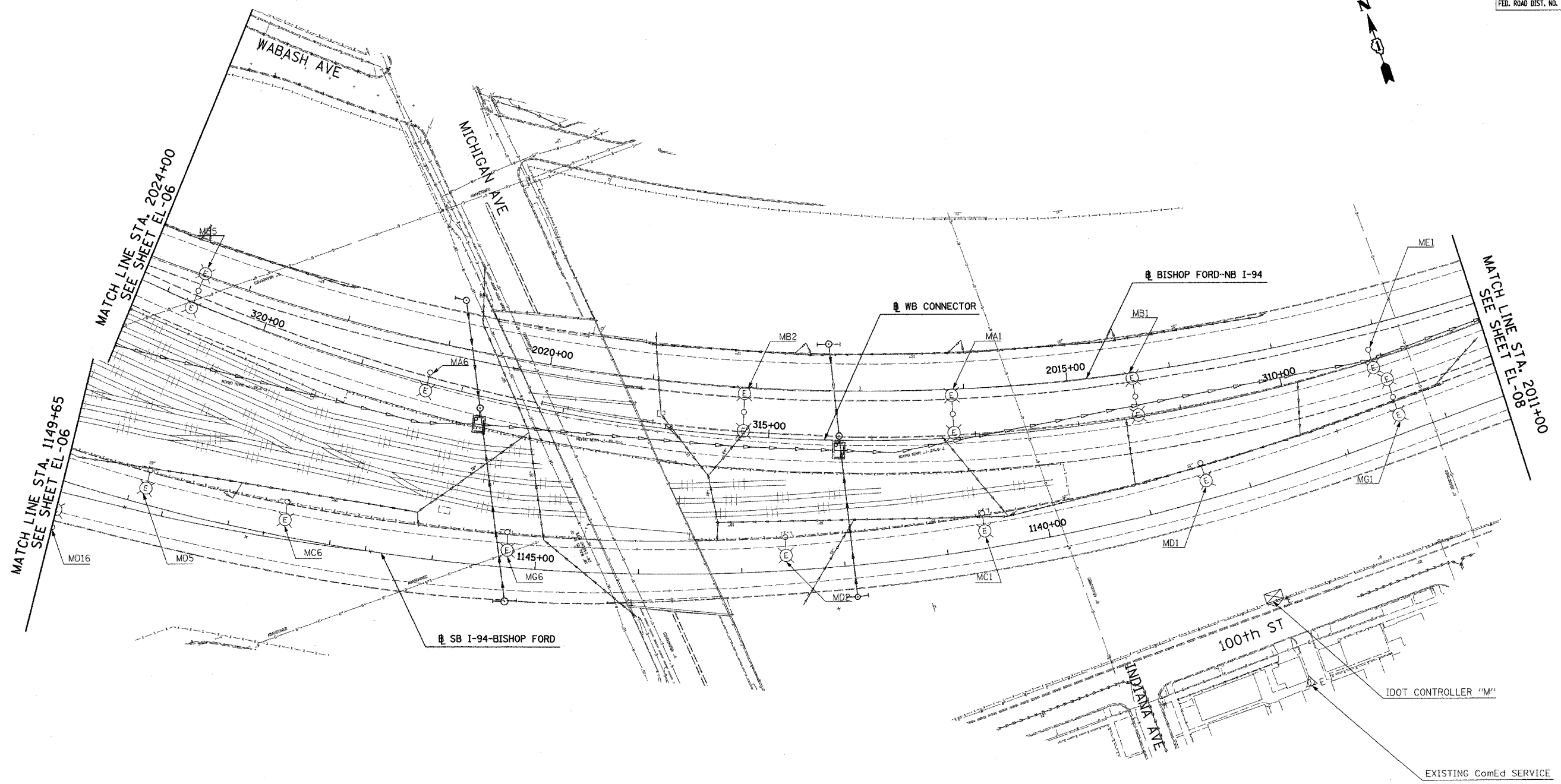
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NAME	DATE		

SINGH
300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

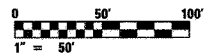
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90/94	2003-0311	COOK	976	79
STA. 2024+00		TO STA. 2011+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NO ELECTRICAL WORK THIS SHEET
FOR REFERENCE ONLY



EL-07

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57
ROADWAY LIGHTING PLANS EXISTING
CONDITIONS, TEMPORARY AND REMOVAL
SCALE: 1"=50'
DATE: OCTOBER 29, 2004
DRAWN BY: SP
CHECKED BY: TM

SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS
300 W. ADAMS ST.
CHICAGO, IL 60608
TEL: (312) 628-0240
FAX: (312) 628-8448

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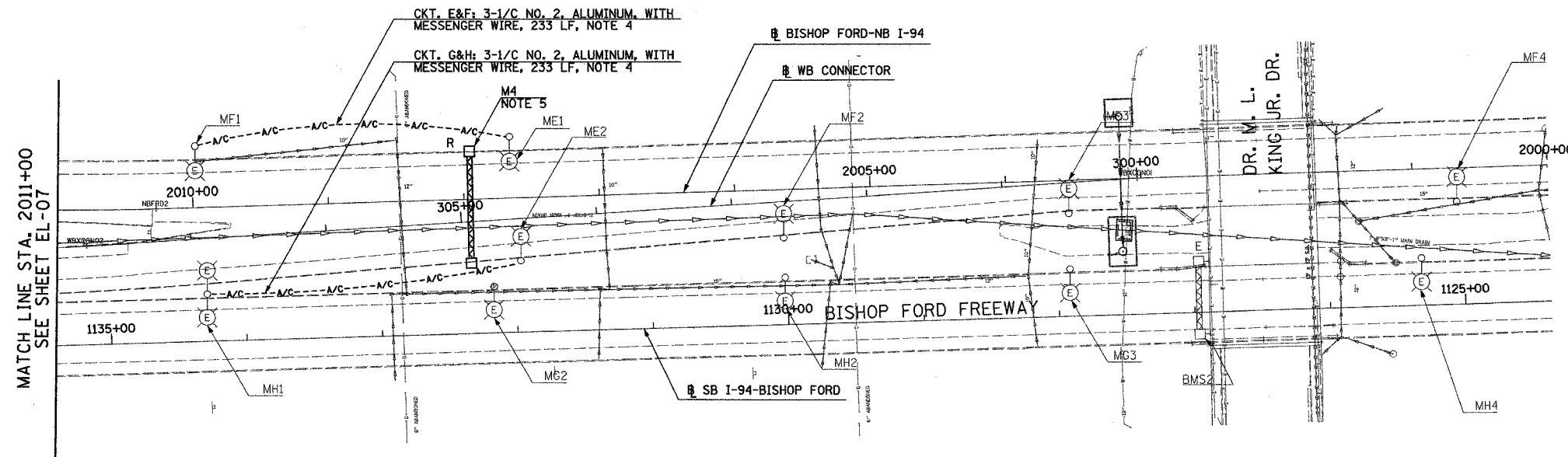
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	80
STA. 2011+00		TO STA. 2000+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
3. THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT REMOVAL OF SIGN UNDER CONTRACT 62695.
5. SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED SIGN M1 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN M4 IS DISCONNECTED.
6. UNDERPASS LIGHTING AT DR. M.L. KING JR. DRIVE IS NOT PART OF THIS CONTRACT.



MATCH LINE STA. 2011+00
SEE SHEET EL-07



EL-08

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57

ROADWAY LIGHTING PLANS EXISTING
 CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50'
 DATE: OCTOBER 29, 2004

DRAWN BY: SP
 CHECKED BY: TM

SINGH 300 W. ADAMS ST.
 CHICAGO, IL 60606
 SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
 CONSULTING ENGINEERS FAX: (312) 629-8449

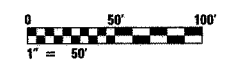
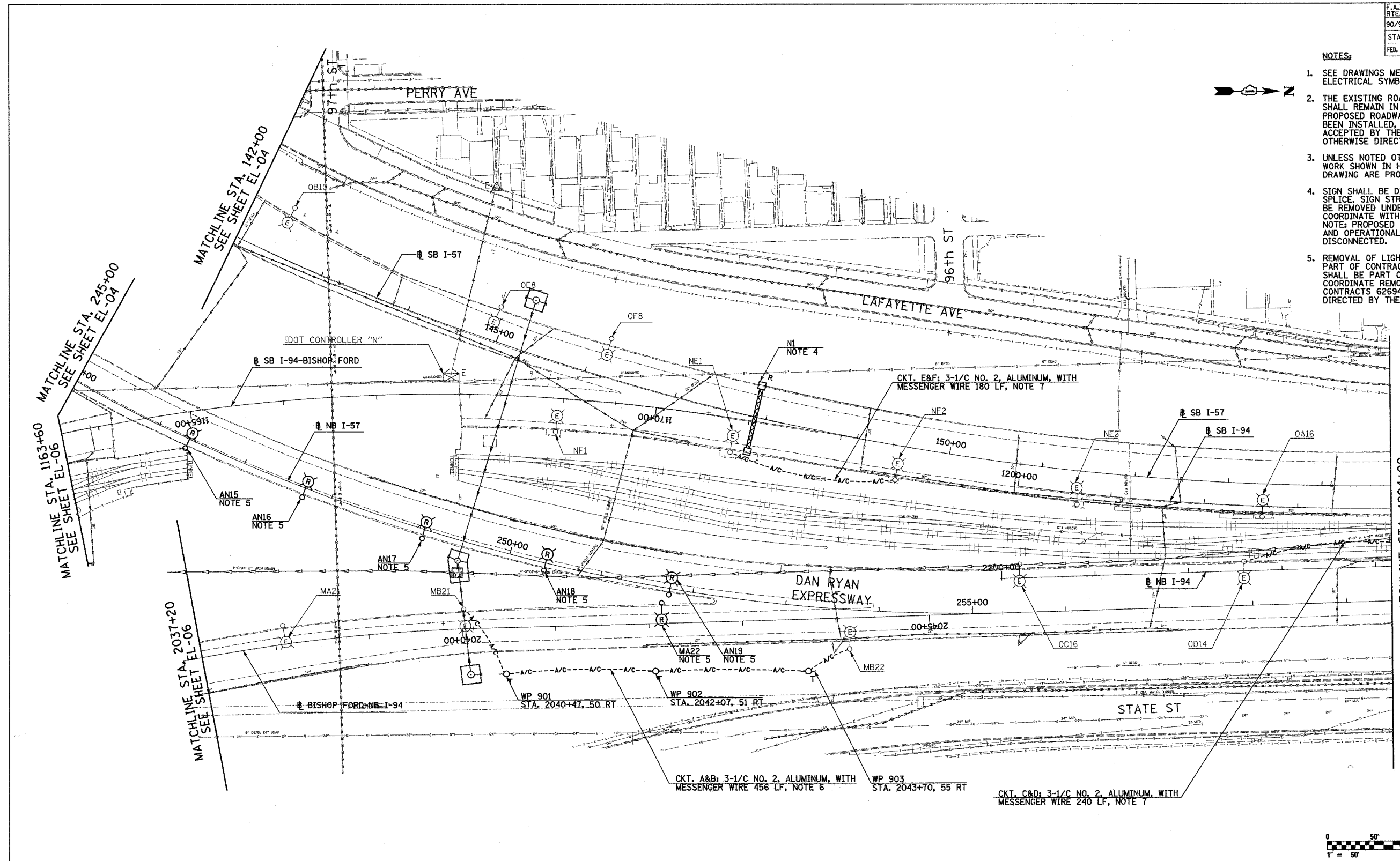
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F.A.I. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	91
STA. 142+00		TO STA. 1204+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

62583

NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED SIGN A7 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN N1 IS DISCONNECTED.
- REMOVAL OF LIGHT POLE AND LUMINAIRE ARE PART OF CONTRACT 62583, FOUNDATION REMOVAL SHALL BE PART OF CONTRACT 62694 AND 62695. COORDINATE REMOVAL SCHEDULE WITH CIVIL CONTRACTS 62694 AND 62695 OR AS OTHERWISE DIRECTED BY THE ENGINEER.



EL-09

NOTES CONTINUED:

- PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PROVIDE CONTINUITY BETWEEN POLE MB21 AND MB22 BEFORE REMOVAL OF POLE MA22.
- PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT REMOVAL OF SIGN UNDER SEPARATE CONTRACT. REFER SHEET ME-16.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS EXISTING
 CONDITIONS, TEMPORARY AND REMOVAL
 SCALE: 1"=50'
 DATE: OCTOBER 29, 2004
 DRAWN BY: SP
 CHECKED BY: TM

SINGH
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
 CONSULTING ENGINEERS FAX: (312) 629-8449

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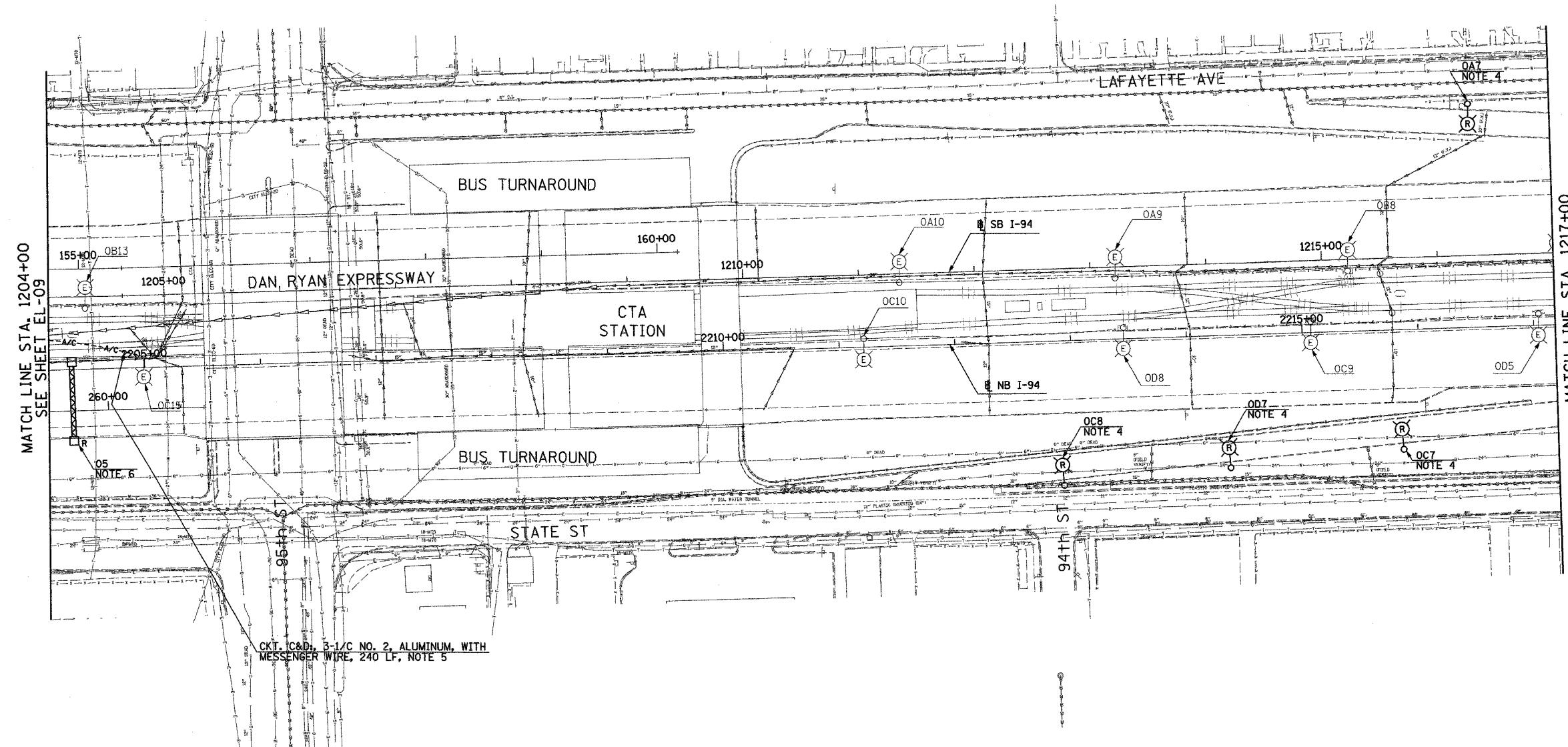
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	82
STA. 1204+00		TO STA. 1217+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

62583



NOTES:

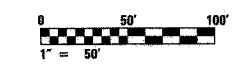
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
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- PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT REMOVAL OF SIGN UNDER SEPARATE CONTRACT. REFER TO SHEET ME-16.
- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED SIGN 06 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN 05 IS DISCONNECTED.



MATCH LINE STA. 1204+00
SEE SHEET EL-09

MATCH LINE STA. 1217+00
SEE SHEET EL-11

CKT. I.C.&D., 3-1/C NO. 2, ALUMINUM, WITH MESSENGER WIRE, 240 LF., NOTE 5



EL-10

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ROADWAY LIGHTING PLANS EXISTING
CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50' DRAWN BY: SP
DATE: OCTOBER 29, 2004 CHECKED BY: TM

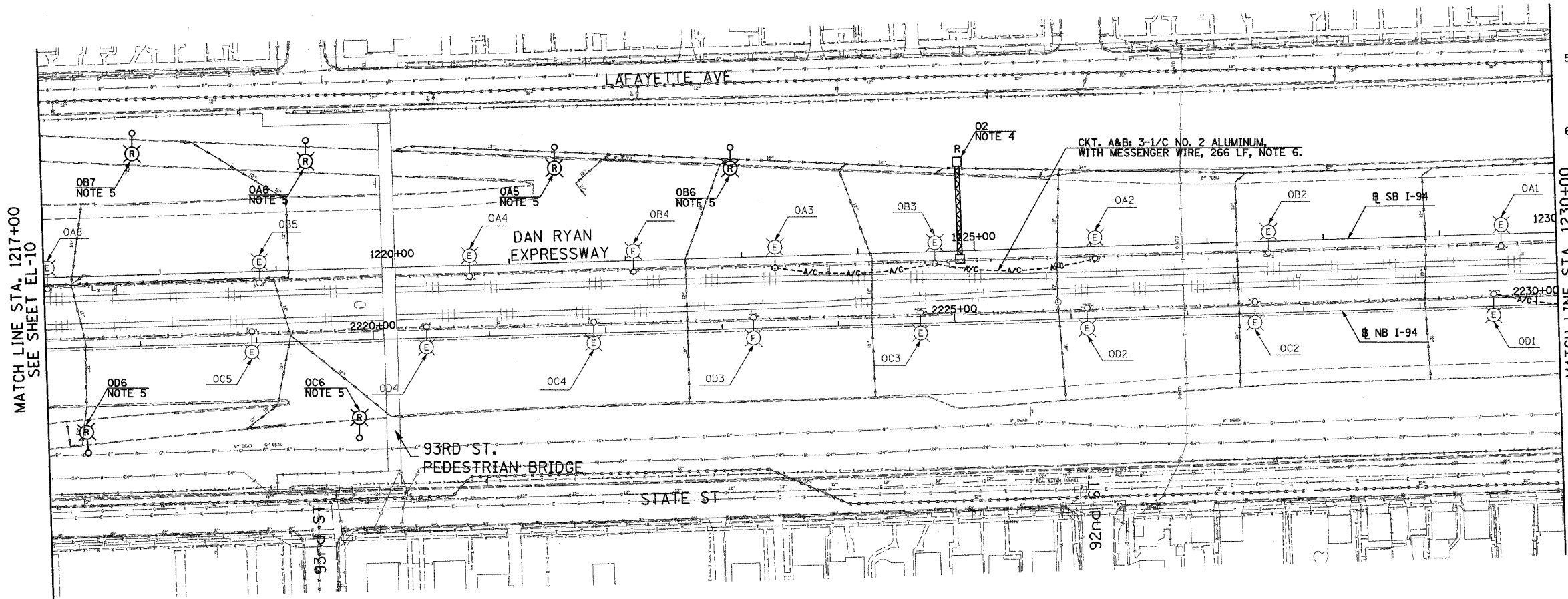
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	23
STA. 1217+00		TO STA. 1230+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583

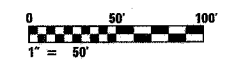
NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
- THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED SIGN 02 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN 02 IS DISCONNECTED.
- REMOVAL OF LIGHT POLE AND LUMINAIRE ARE PART OF CONTRACT 62583. FOUNDATION REMOVAL SHALL BE PART OF CONTRACT 62694 AND 62695. COORDINATE REMOVAL SCHEDULE WITH CIVIL CONTRACTS 62694 AND 62695 OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT REMOVAL OF SIGN UNDER SEPARATE CONTRACT. REFER TO SHEET ME-16.



MATCH LINE STA. 1217+00
SEE SHEET EL-10

MATCH LINE STA. 1230+00
SEE SHEET EL-12



EL-11

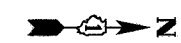
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 ROADWAY LIGHTING PLANS EXISTING CONDITIONS, TEMPORARY AND REMOVAL SCALE: 1"=50' DATE: OCTOBER 29, 2004
NAME	DATE	
		DRAWN BY: SP CHECKED BY: TM

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

10/20/2004 5:00 PM

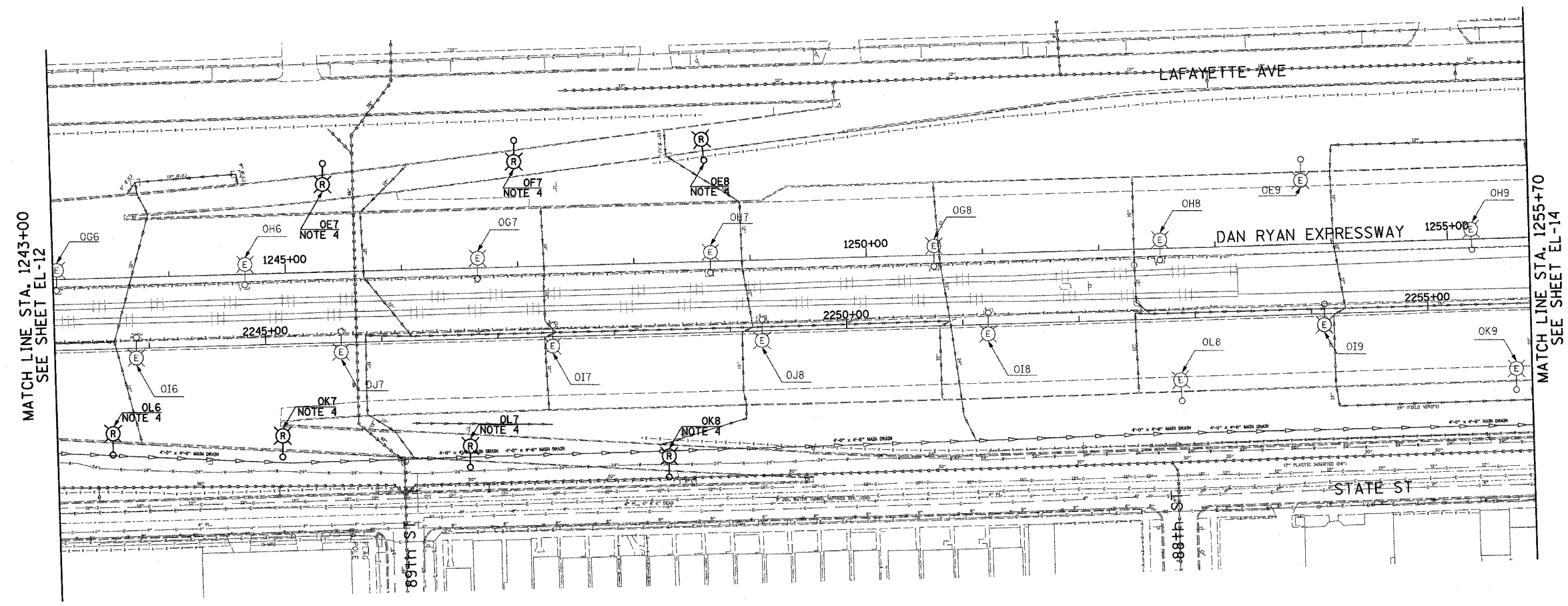
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-03II	COOK	976	85
STA. 1243+00		TO STA. 1255+70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



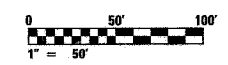
NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
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MATCH LINE STA. 1243+00
SEE SHEET EL-12

MATCH LINE STA. 1255+70
SEE SHEET EL-14



EL-13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS EXISTING
 CONDITIONS, TEMPORARY AND REMOVAL
 SCALE: 1"=50'
 DATE: OCTOBER 29, 2004
 DRAWN BY: SP
 CHECKED BY: TM

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 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

10/20/2004 6:10:00 PM

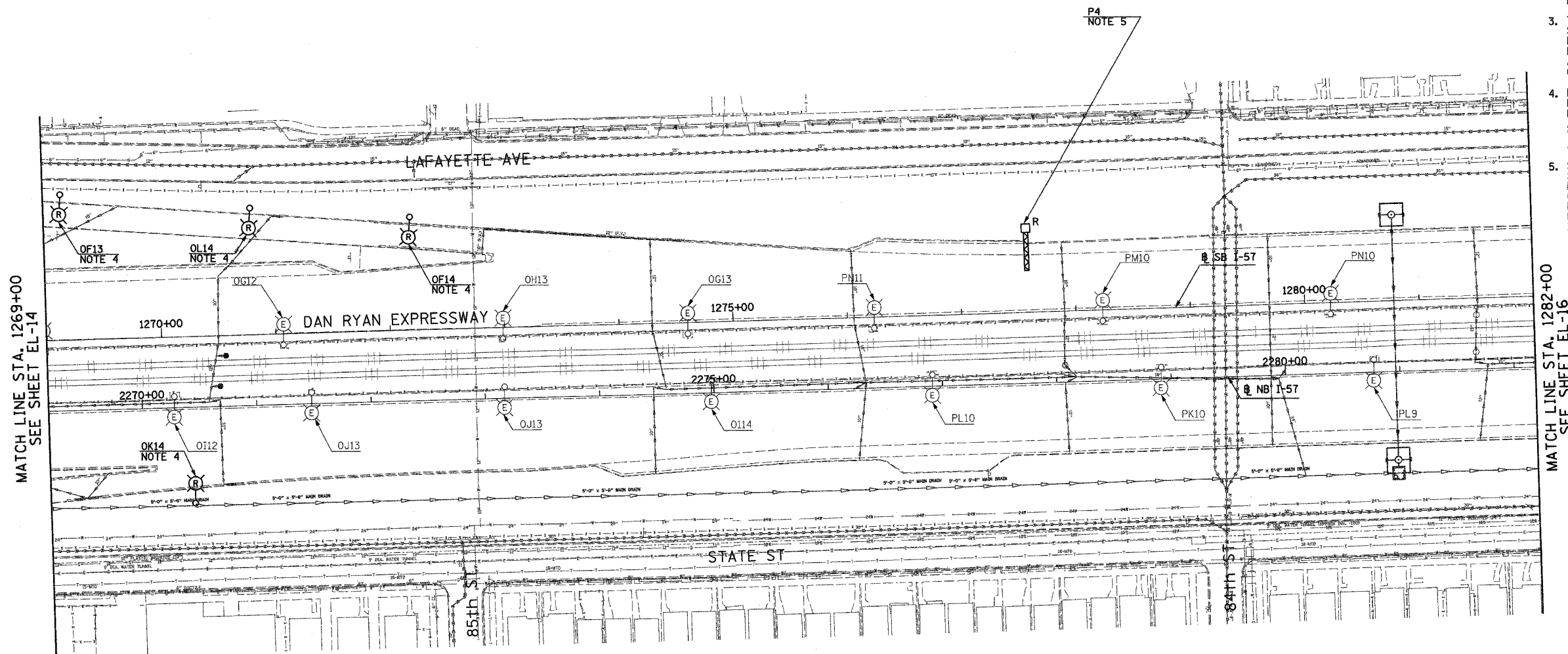
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-03II	COOK	976	7
STA. 1269+00		TO STA. 1282+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

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- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: EXISTING SIGN P4 SHALL NOT BE DISCONNECTED UNTIL PROPOSED SIGN P2 IS INSTALLED AND OPERATIONAL.



MATCH LINE STA. 1269+00
SEE SHEET EL-14

MATCH LINE STA. 1282+00
SEE SHEET EL-16



EL-15

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 ROADWAY LIGHTING PLANS EXISTING CONDITIONS, TEMPORARY AND REMOVAL
NAME	DATE	

SCALE: 1"=50' DRAWN BY: SP
DATE: OCTOBER 29, 2004 CHECKED BY: TM

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

D. 20/2004 6:10:24 PM

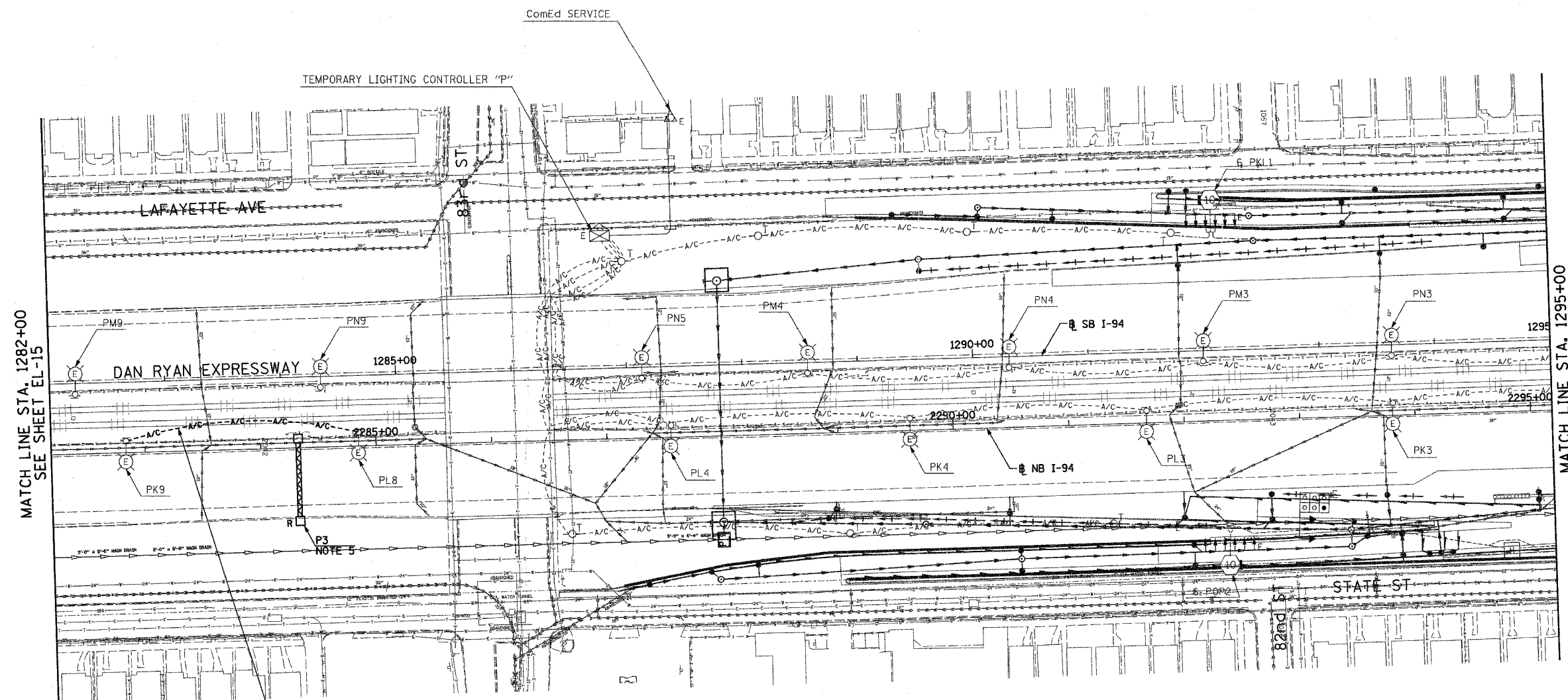
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-03II	COOK	976	88
STA. 1282+00		TO STA. 1295+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

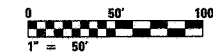
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
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- PROVIDE AERIAL CABLE BETWEEN EXISTING LIGHT POLES TO PERMIT REMOVAL OF SIGN UNDER SEPARATE CONTRACT. REFER TO SHEET ME-16.
- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE. SIGN STRUCTURE AND LUMINAIRES SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: EXISTING SIGN P3 SHALL NOT BE DISCONNECTED UNTIL PROPOSED SIGN P6 IS INSTALLED AND OPERATIONAL.



MATCH LINE STA. 1282+00
SEE SHEET EL-15

MATCH LINE STA. 1295+00
SEE SHEET EL-17

CKT. K&L: 3-1/C NO. 2 ALUMINUM
WITH MESSENGER WIRE, 203 LF, NOTE 4



EL-16

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

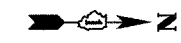
ROADWAY LIGHTING PLANS EXISTING
CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50' DRAWN BY: SP
DATE: OCTOBER 29, 2004 CHECKED BY: TM

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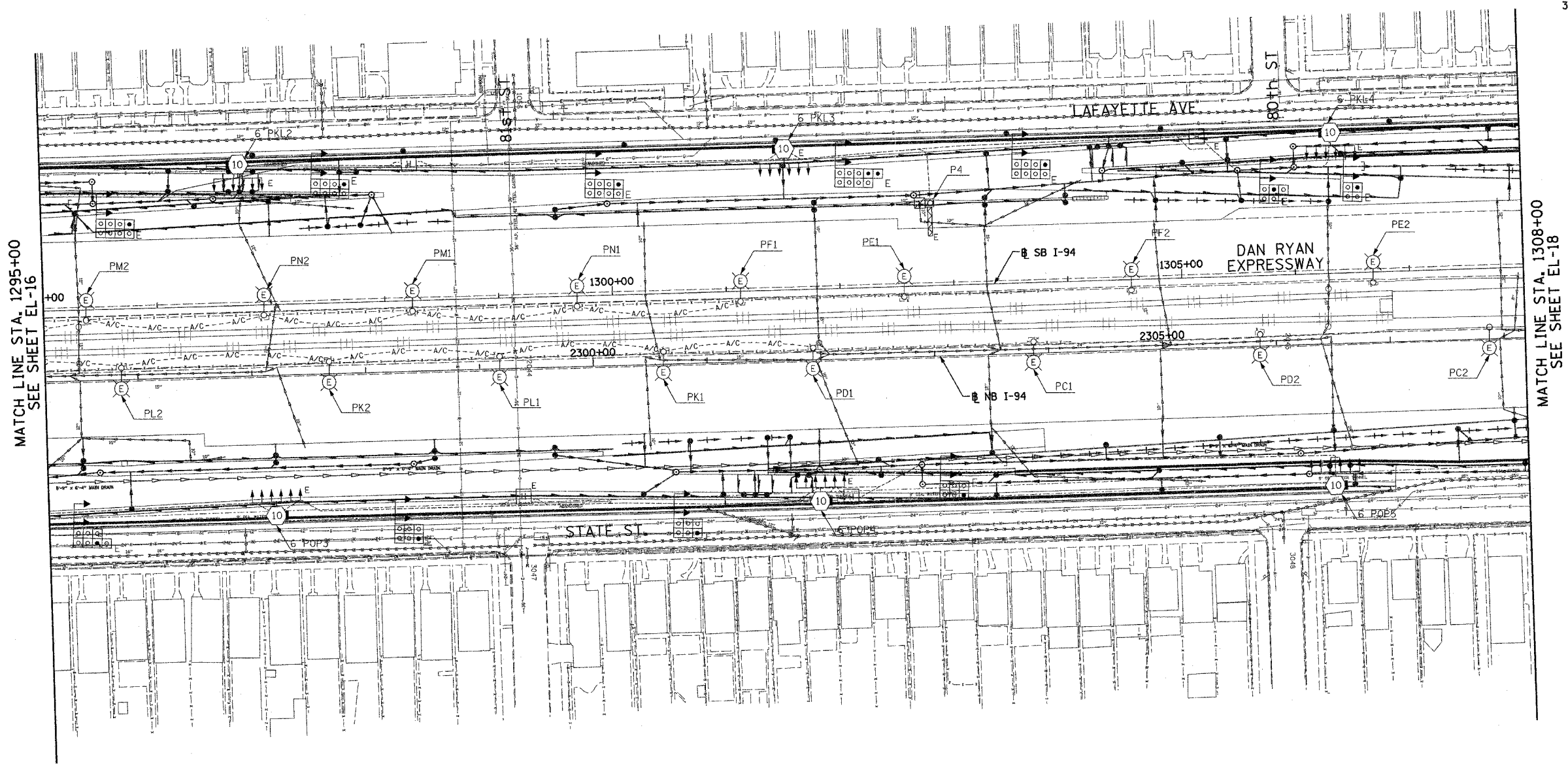
F.A.I. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	89
STA. 1295+00		TO STA. 1308+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



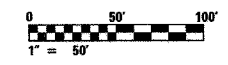
NOTES:

1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS OF WORK.
3. THE EXISTING ROADWAY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



MATCH LINE STA. 1295+00
SEE SHEET EL-16

MATCH LINE STA. 1308+00
SEE SHEET EL-18



EL-17

NO ELECTRICAL WORK THIS SHEET
FOR REFERENCE ONLY

SINGH 300 W. ADAMS ST.
SINGH & ASSOCIATES, INC. CHICAGO, IL 60608
CONSULTING ENGINEERS TEL: (312) 628-0240 FAX: (312) 628-8449

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ROADWAY LIGHTING PLANS EXISTING
CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50' DRAWN BY: SP
DATE: OCTOBER 29, 2004 CHECKED BY: TM

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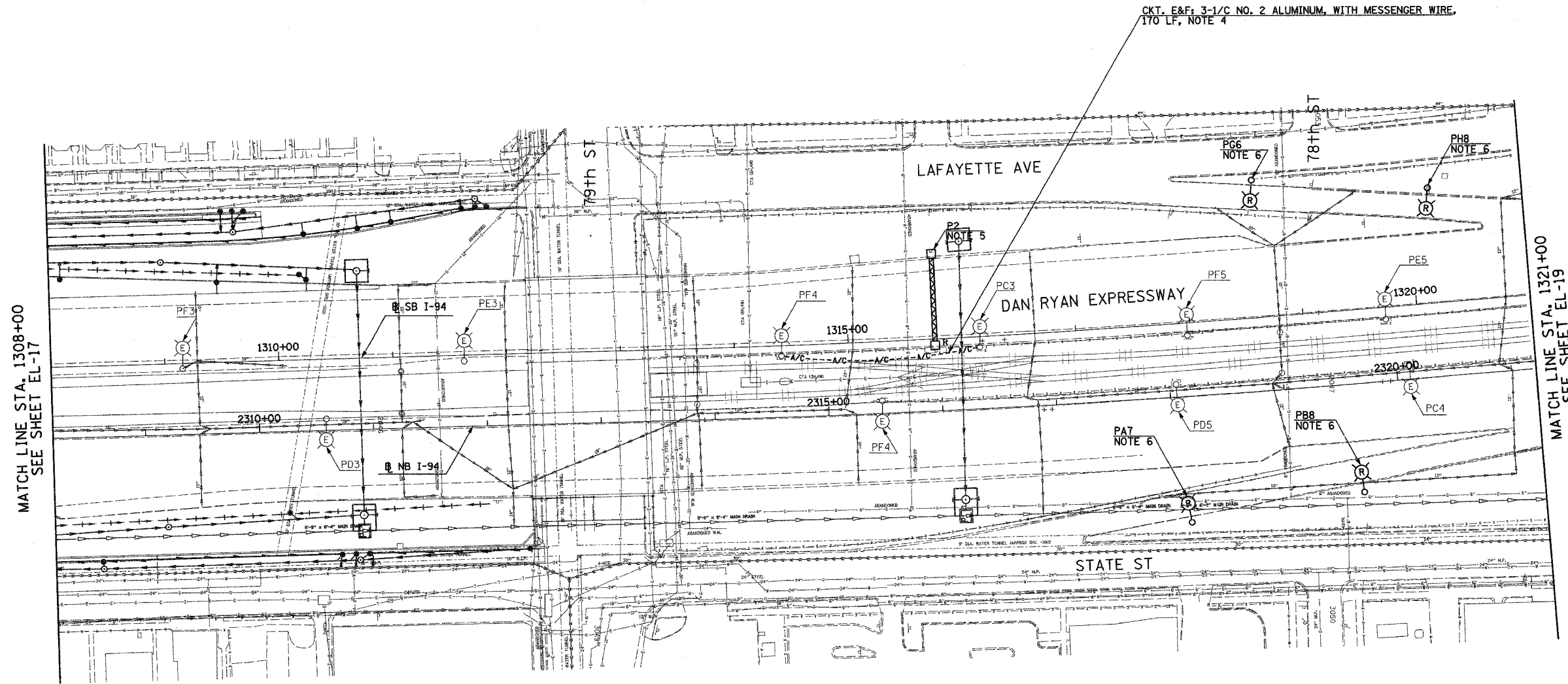
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-03II	COOK	976	10
STA. 1308+00		TO STA. 1321+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

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- SIGN SHALL BE DISCONNECTED BACK TO NEXT SPLICE AND LUMINAIRES REMOVED. SIGN STRUCTURE SHALL BE REMOVED UNDER SEPARATE CONTRACT. COORDINATE WITH CONTRACTS 62694 AND 62695. NOTE: PROPOSED BRIDGE MOUNTED SIGN P5 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN P2 IS DISCONNECTED.
- REMOVAL OF LIGHT POLE AND LUMINAIRE ARE PART OF CONTRACT 62583. FOUNDATION REMOVAL SHALL BE PART OF CONTRACT 62694 AND 62695. COORDINATE REMOVAL SCHEDULE WITH CIVIL CONTRACTS 62694 AND 62695 OR AS OTHERWISE DIRECTED BY THE ENGINEER.



MATCH LINE STA. 1308+00
SEE SHEET EL-17

MATCH LINE STA. 1321+00
SEE SHEET EL-19



EL-18

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

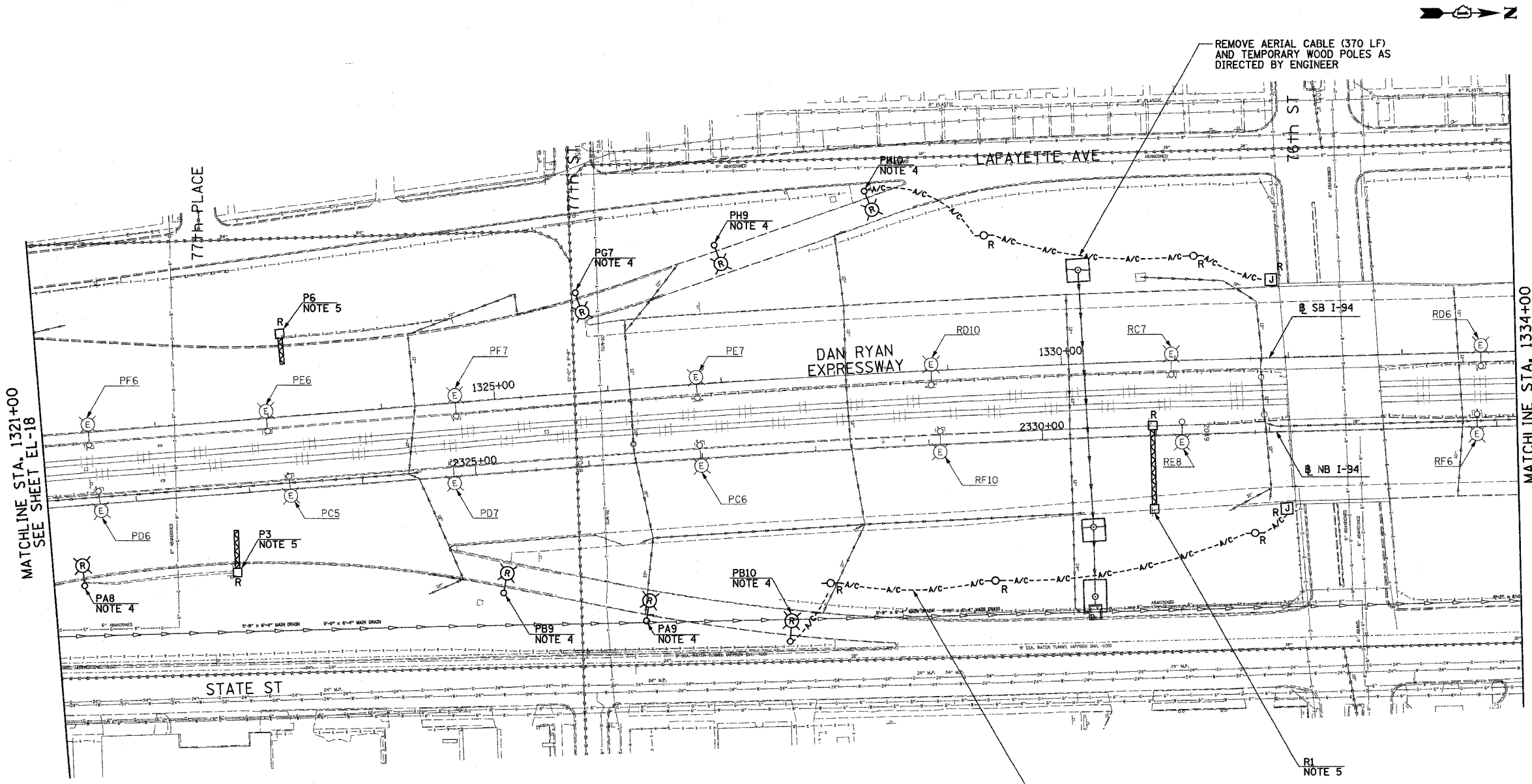
ROADWAY LIGHTING PLANS EXISTING
CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50'
DATE: OCTOBER 29, 2004
DRAWN BY: SP
CHECKED BY: TM

10/21/2004 10:35:41 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-03II	COOK	976	41
STA. 1321+00		TO STA. 1334+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

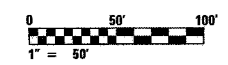
62583



MATCHLINE STA. 1321+00
SEE SHEET EL-18

MATCHLINE STA. 1334+00
SEE SHEET EL-20

- NOTES:**
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
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EL-19

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 ROADWAY LIGHTING PLANS EXISTING CONDITIONS, TEMPORARY AND REMOVAL
NAME	DATE	

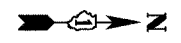
SCALE: 1"=50' DRAWN BY: SP
DATE: OCTOBER 29, 2004 CHECKED BY: TM

SINGH
300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

10/20/2004 6:12:30 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	42
STA. 1334+00		TO STA. 1347+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

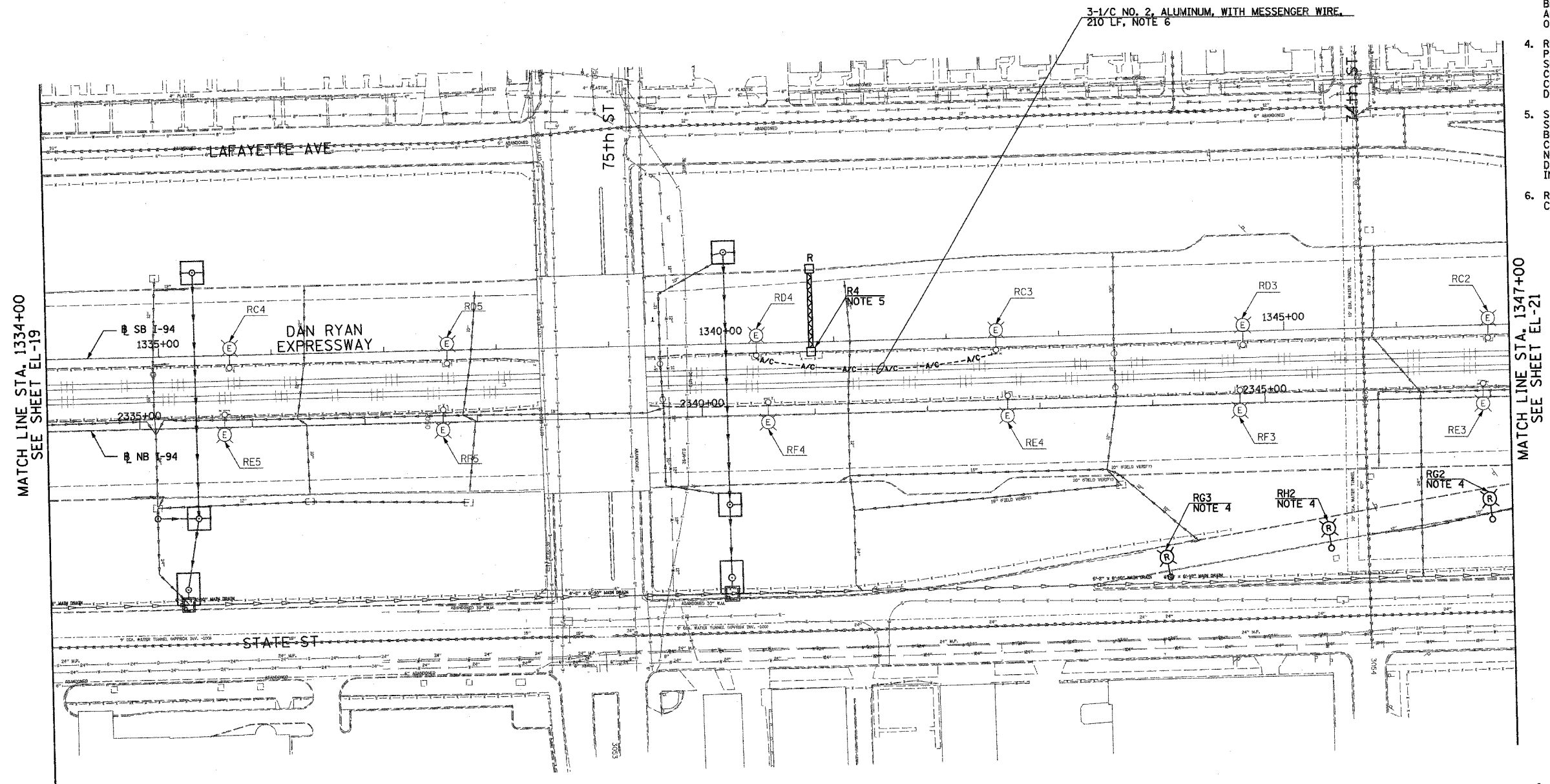
62583



NOTES:

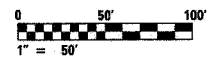
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- REFER TO SHEET ME-16 FOR TEMPORARY AERIAL CABLE CONNECTION.

3-1/C NO. 2, ALUMINUM, WITH MESSENGER WIRE.
210 LF, NOTE 6



MATCH LINE STA. 1334+00
SEE SHEET EL-19

MATCH LINE STA. 1347+00
SEE SHEET EL-21



EL-20

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57
NAME	DATE	
		ROADWAY LIGHTING PLANS EXISTING CONDITIONS, TEMPORARY AND REMOVAL
SCALE: 1"=50'		DRAWN BY: SP
DATE: OCTOBER 29, 2004		CHECKED BY: TM

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SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

300 N. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

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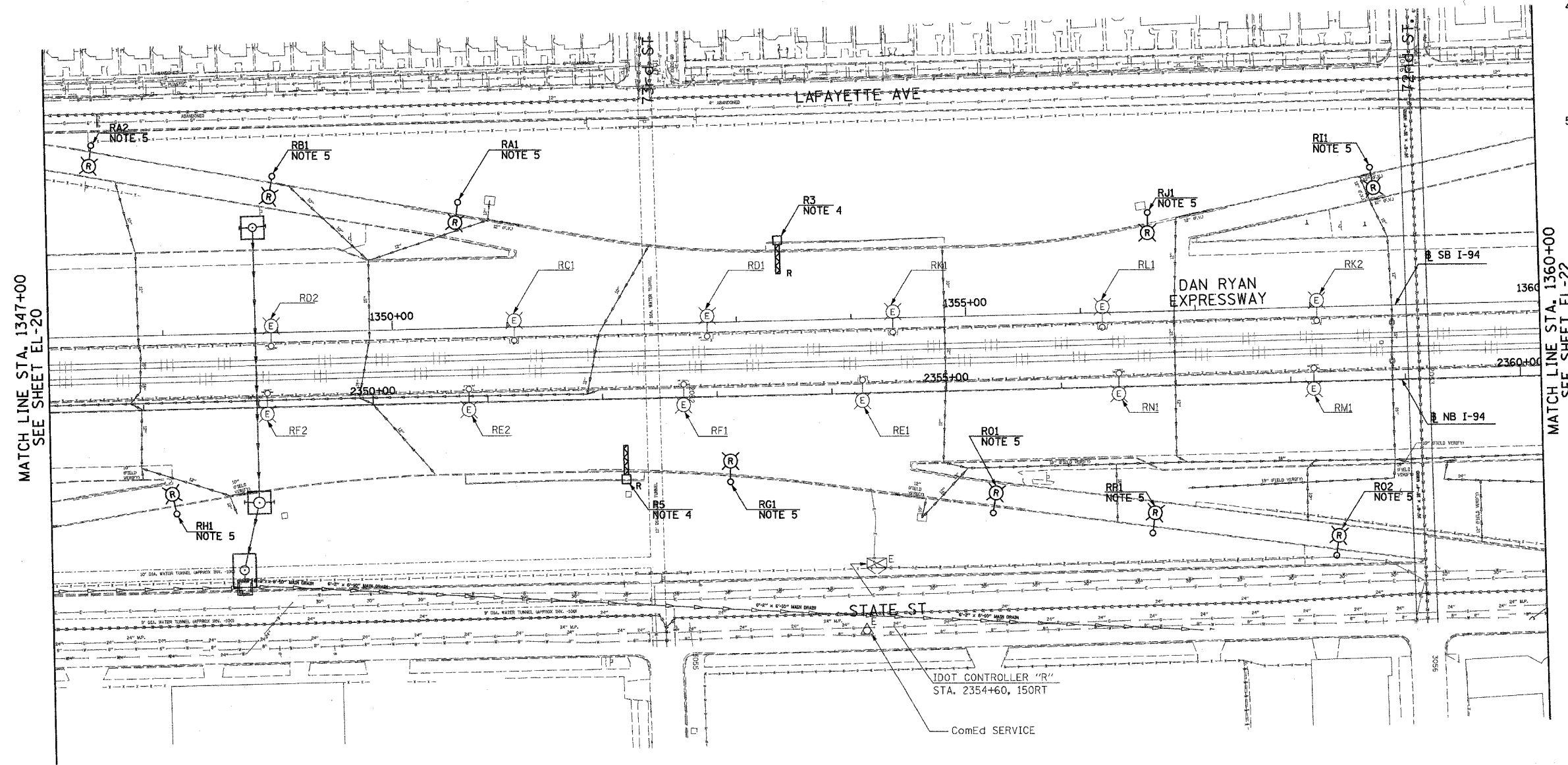
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	43
STA. 1347+00		TO STA. 1360+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



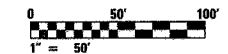
NOTES:

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MATCH LINE STA. 1347+00
SEE SHEET EL-20

MATCH LINE STA. 1360+00
SEE SHEET EL-22



EL-21

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57

ROADWAY LIGHTING PLANS EXISTING
 CONDITIONS, TEMPORARY AND REMOVAL

SCALE: 1"=50' DRAWN BY: SP
 DATE: OCTOBER 29, 2004 CHECKED BY: TM

SINGH 300 W. ADAMS ST.
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 CONSULTING ENGINEERS

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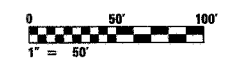
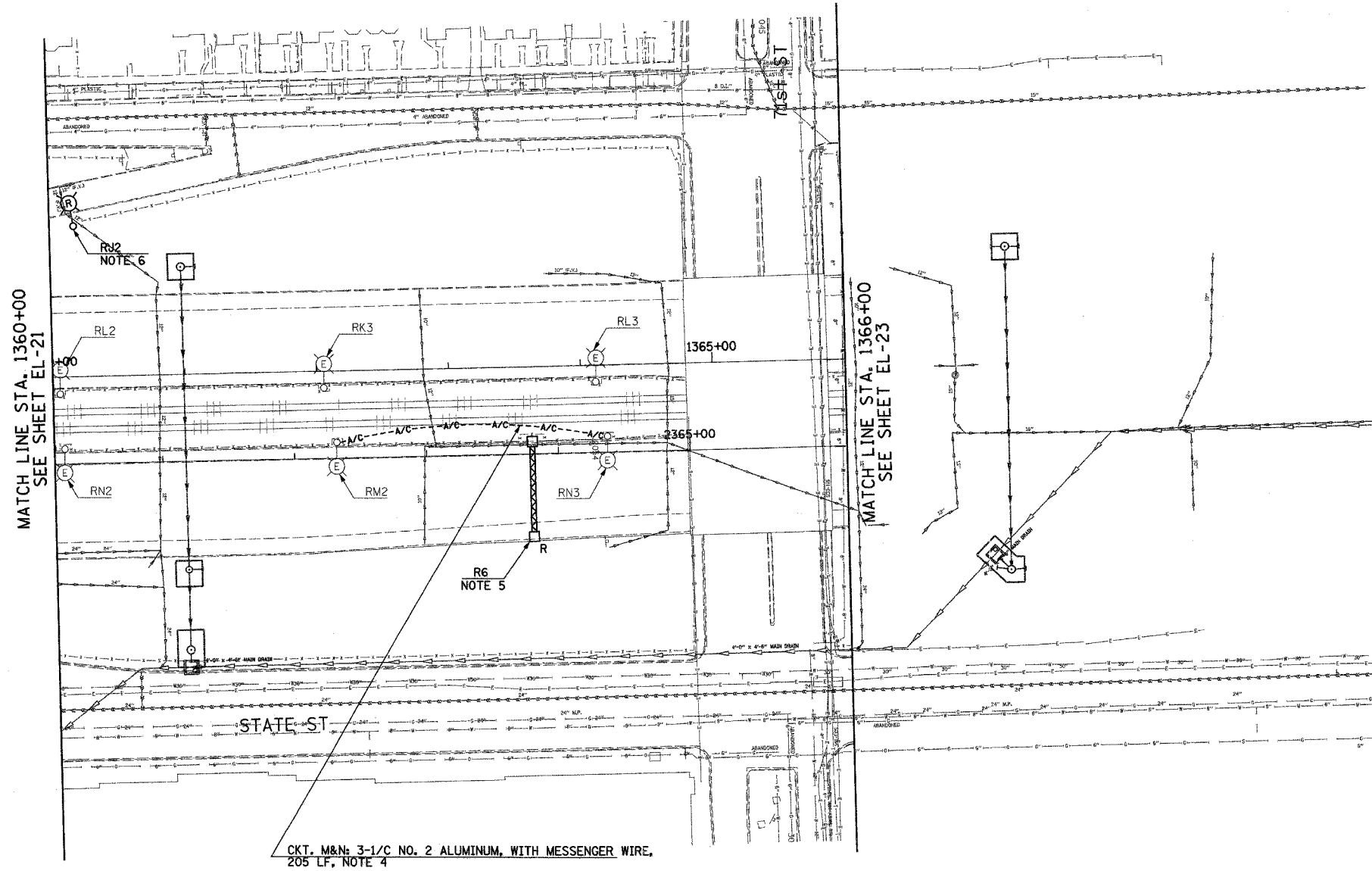
F.A.I. SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	14
STA. 1360+00	TO STA. 1366+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62583



NOTES:

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NOTE: EXISTING SIGN R6 SHALL NOT BE DISCONNECTED UNTIL PROPOSED SIGN R6 IS INSTALLED AND OPERATIONAL.
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NOTE: PROPOSED BRIDGE MOUNTED SIGN R5 SHALL BE INSTALLED AND OPERATIONAL BEFORE EXISTING SIGN R6 IS REMOVED.



EL-22

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS EXISTING
 CONDITIONS, TEMPORARY AND REMOVAL
 SCALE: 1"=50'
 DATE: OCTOBER 29, 2004
 DRAWN BY: SP
 CHECKED BY: TM

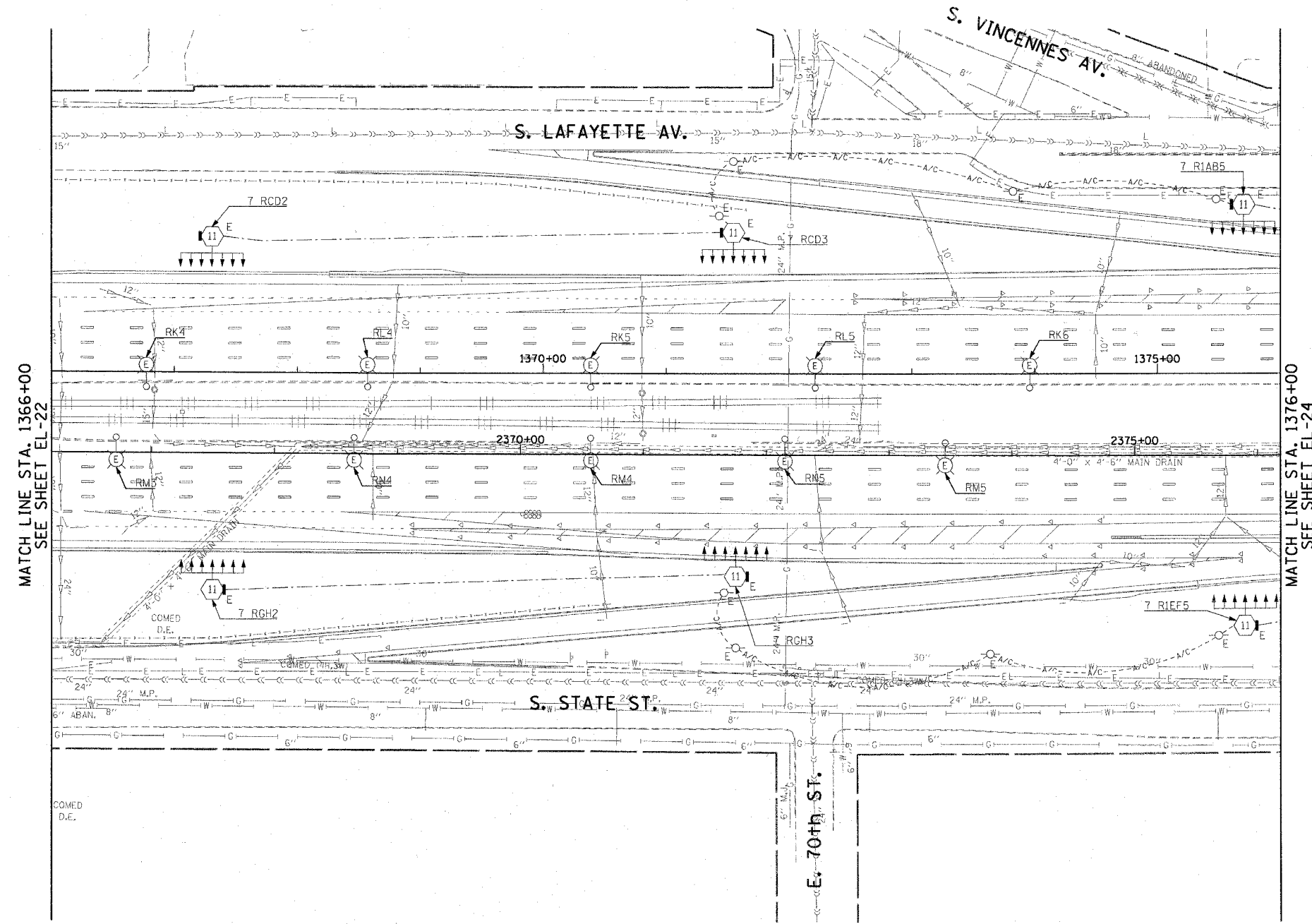
SINGH
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 TEL: (312) 629-0240
 FAX: (312) 628-9449

10/20/2004 6:12:41 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	95
STA. 1366+00.00		TO STA. 1376+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62583

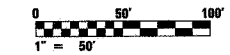
NOTES:
 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



MATCH LINE STA. 1366+00
SEE SHEET EL-22

MATCH LINE STA. 1376+00
SEE SHEET EL-24

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. HIGH MAST LIGHT TOWERS, CONTROLLERS, AND WIRING ARE INSTALLED IN IDOT CONTRACT NO. 62733.



EL-23

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
 ROADWAY LIGHTING PLANS
 EXISTING CONDITIONS AND DEMOLITION
 SCALE: 1"=50' DRAWN BY: CJM
 DATE: October 29, 2004 CHECKED BY: WDS

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

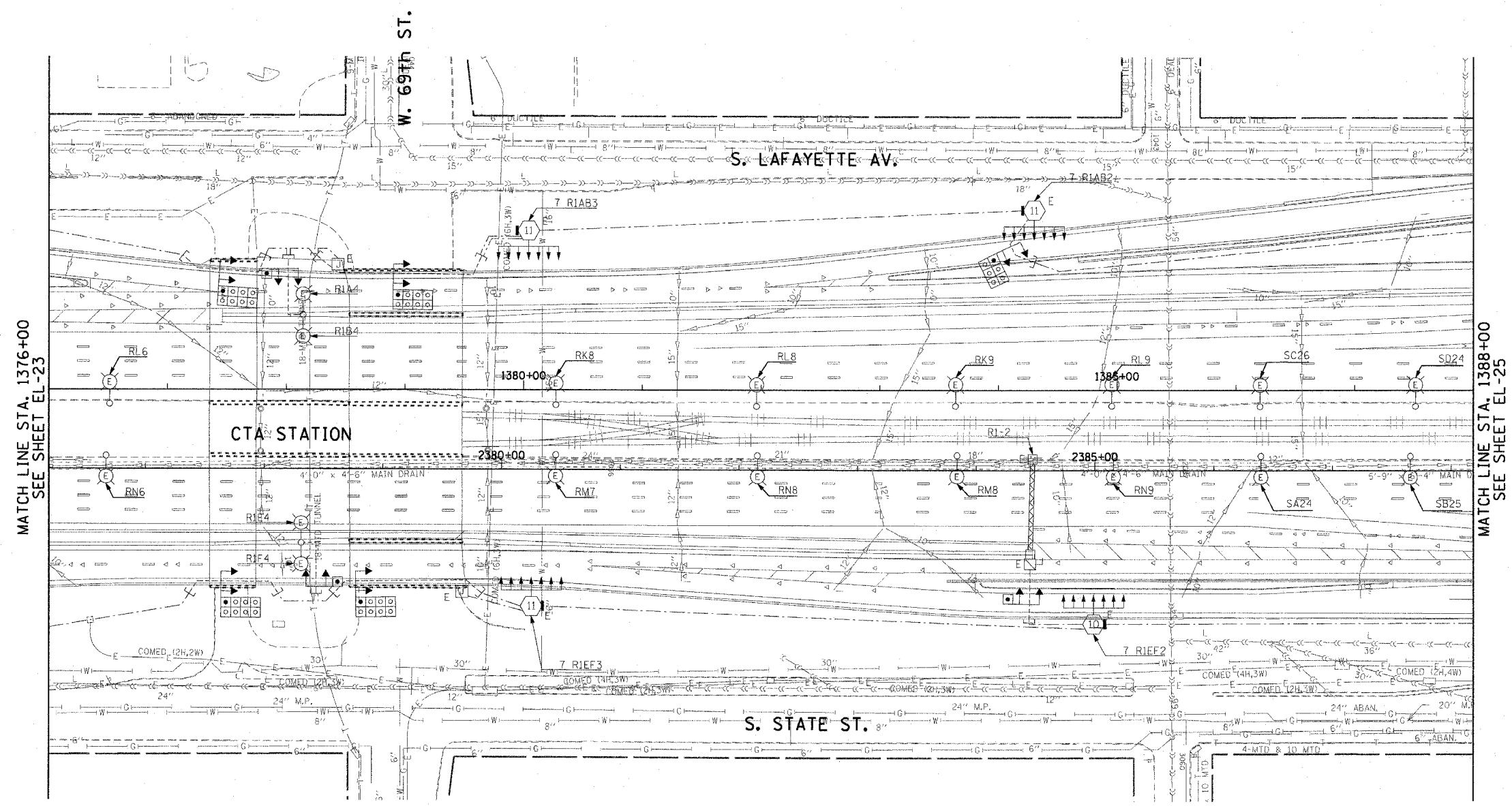
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	96
STA. 1376+00.00		TO STA. 1388+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

62583

NOTES:

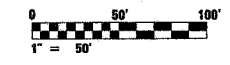
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



MATCH LINE STA. 1376+00
SEE SHEET EL-23

MATCH LINE STA. 1388+00
SEE SHEET EL-25

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. HIGH MAST LIGHT TOWERS, CONTROLLERS, AND WIRING ARE INSTALLED IN IDOT CONTRACT NO. 62733.



EL-24

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

**ROADWAY LIGHTING PLANS
EXISTING CONDITIONS AND DEMOLITION**

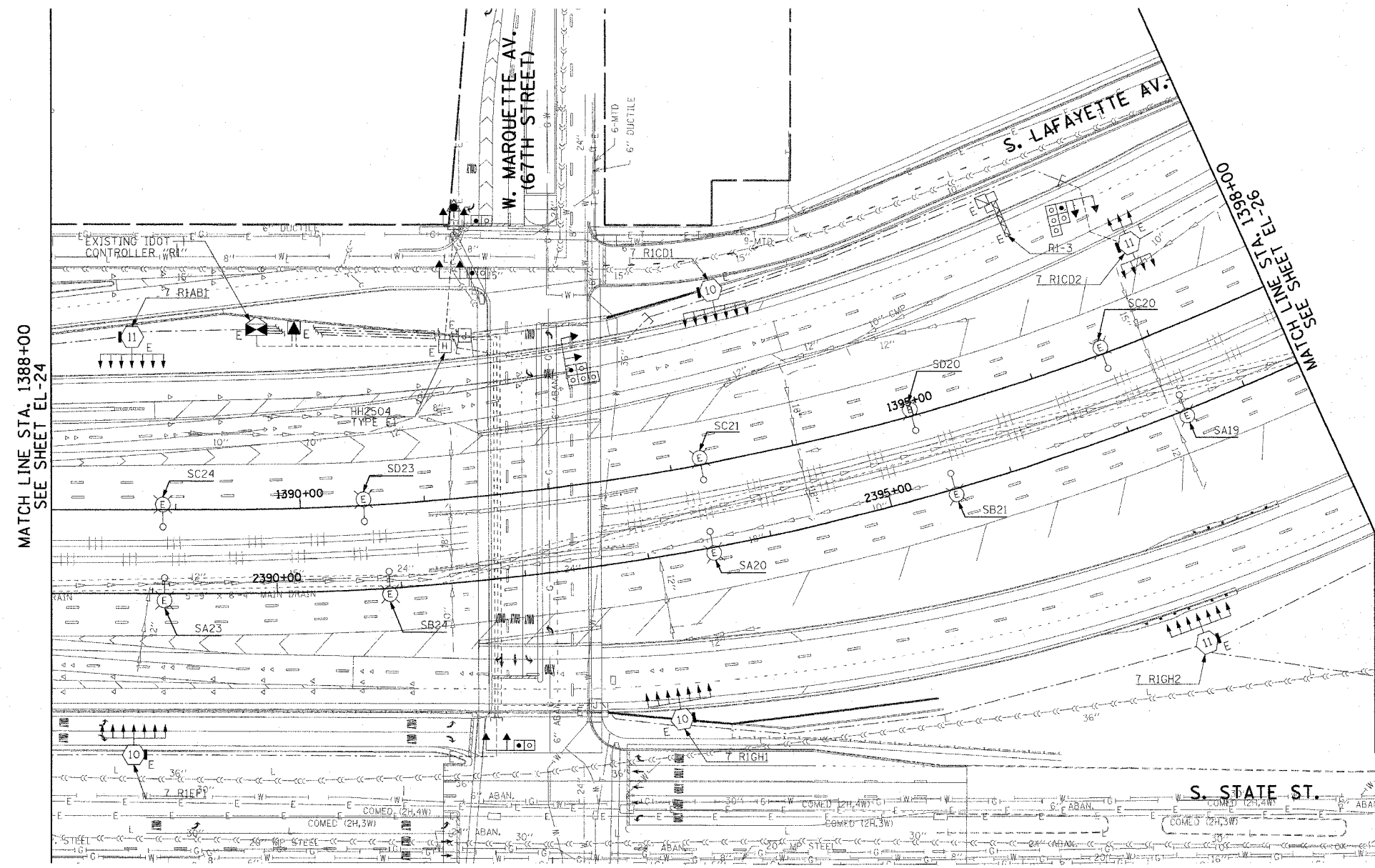
SCALE: 1"=50' DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	97
STA. 1388+00.00		TO STA. 1398+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62583

NOTES:

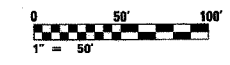
- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



MATCH LINE STA. 1388+00
SEE SHEET EL-24

MATCH LINE STA. 1398+00
SEE SHEET EL-26

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. HIGH MAST LIGHT TOWERS, CONTROLLERS, AND WIRING ARE INSTALLED IN IDOT CONTRACT NO. 62733.



EL-25

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

**ROADWAY LIGHTING PLANS
EXISTING CONDITIONS AND DEMOLITION**

SCALE: 1"=50' DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

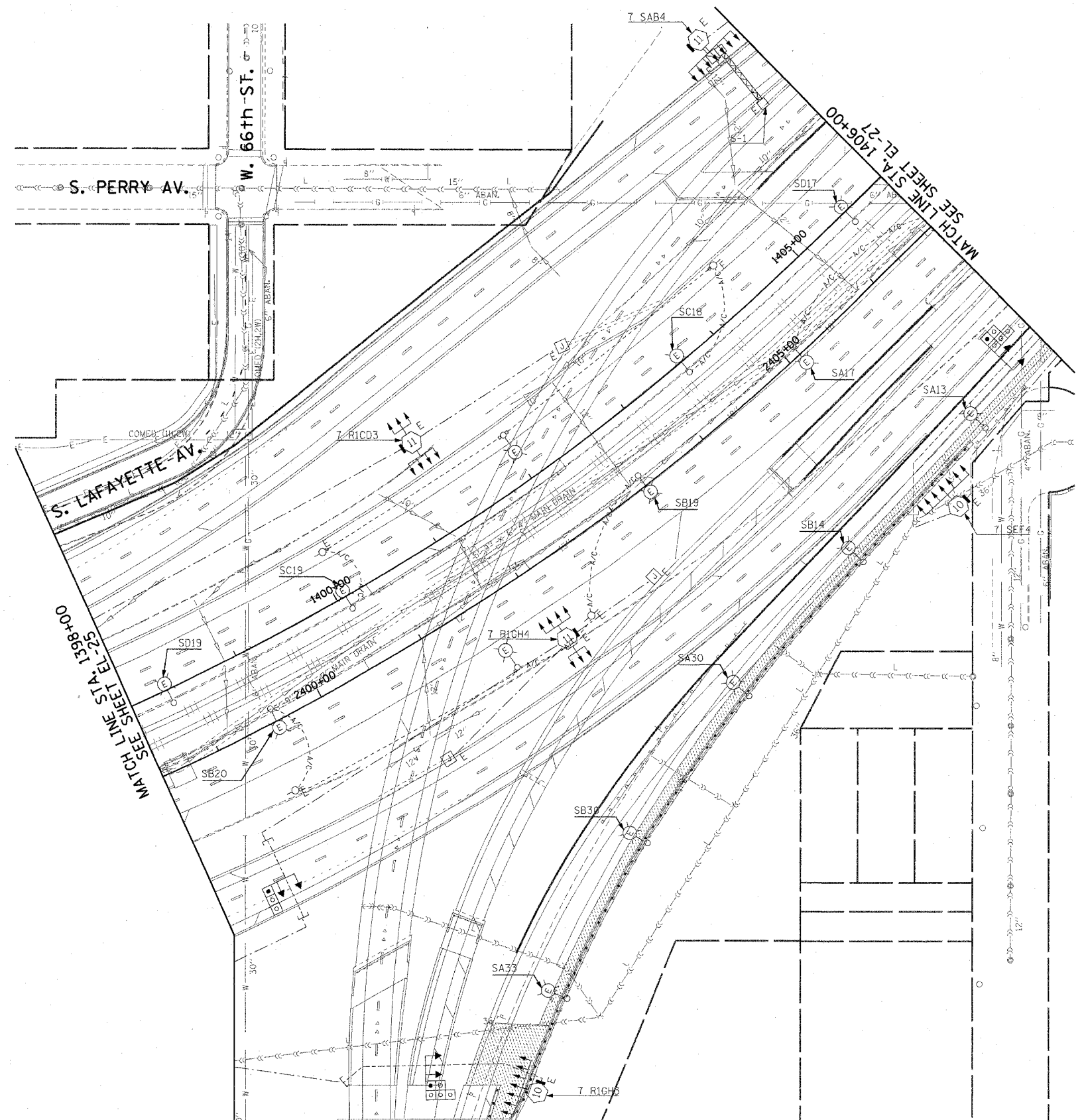
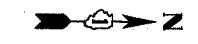
CTE ENGINEERS
CONSER TOWNSEND ENVIRONMENTAL ENGINEERS, INC.
303 EAST WALKER DRIVE, SUITE 600
CHICAGO, ILLINOIS 60601-5202, PHONE: (312) 938-0300

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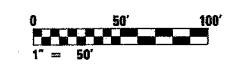
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	48
STA. 1398+00.00		TO STA. 1406+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62583

NOTES:
 1. SEE DRAWING ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. HIGH MAST LIGHT TOWERS, CONTROLLERS, AND WIRING ARE INSTALLED IN IDOT CONTRACT NO. 62733.



EL-26

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
ROADWAY LIGHTING PLANS
 EXISTING CONDITIONS AND DEMOLITION
 SCALE: 1"=50' DRAWN BY: CJM
 DATE: October 29, 2004 CHECKED BY: WDS

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

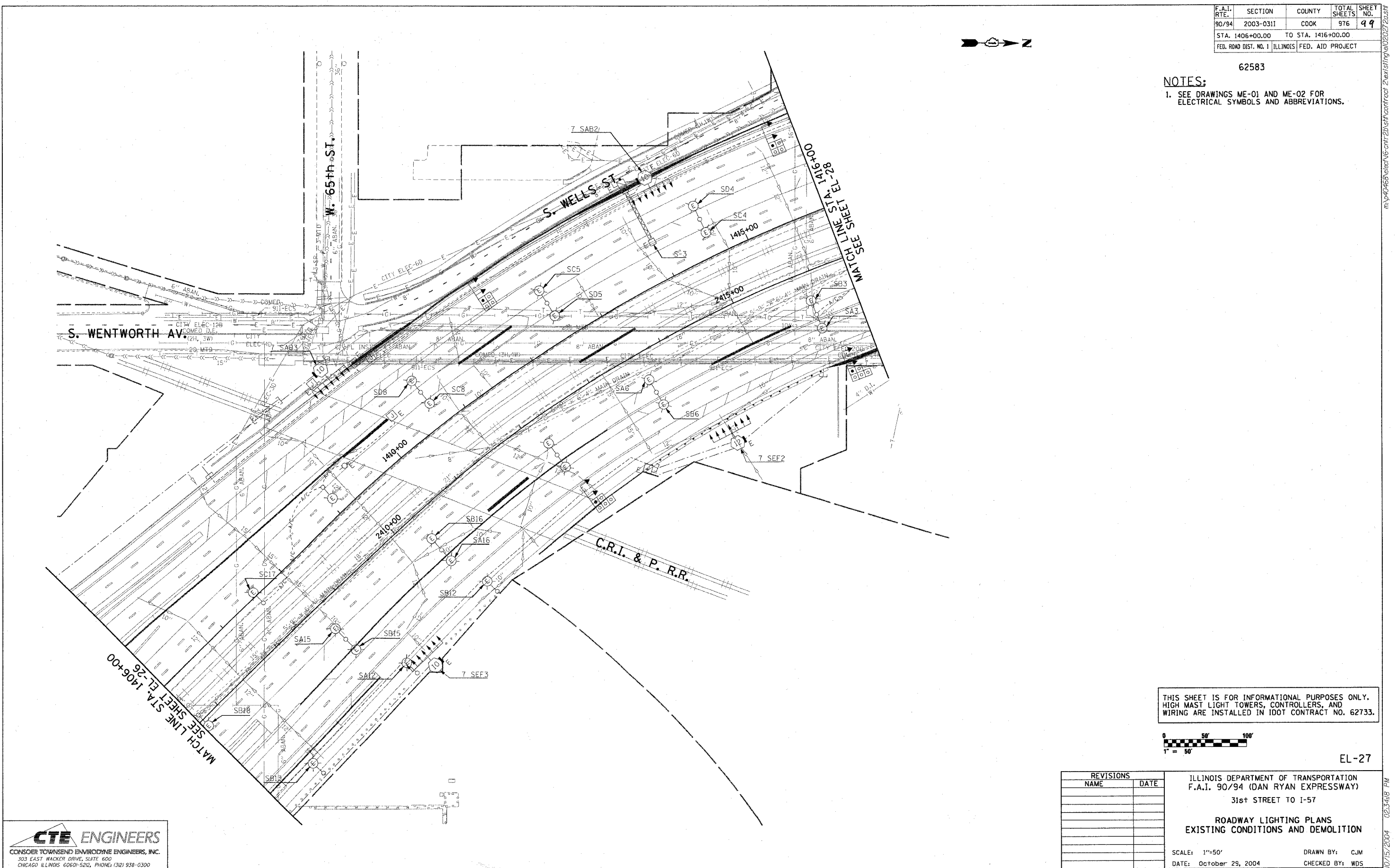
10/15/2004 02:34:46 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	99
STA. 1406+00.00		TO STA. 1416+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

62583

NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.



THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. HIGH MAST LIGHT TOWERS, CONTROLLERS, AND WIRING ARE INSTALLED IN IDOT CONTRACT NO. 62733.



EL-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 31st STREET TO I-57
**ROADWAY LIGHTING PLANS
 EXISTING CONDITIONS AND DEMOLITION**

SCALE: 1"=50' DRAWN BY: CJM
 DATE: October 29, 2004 CHECKED BY: WDS

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

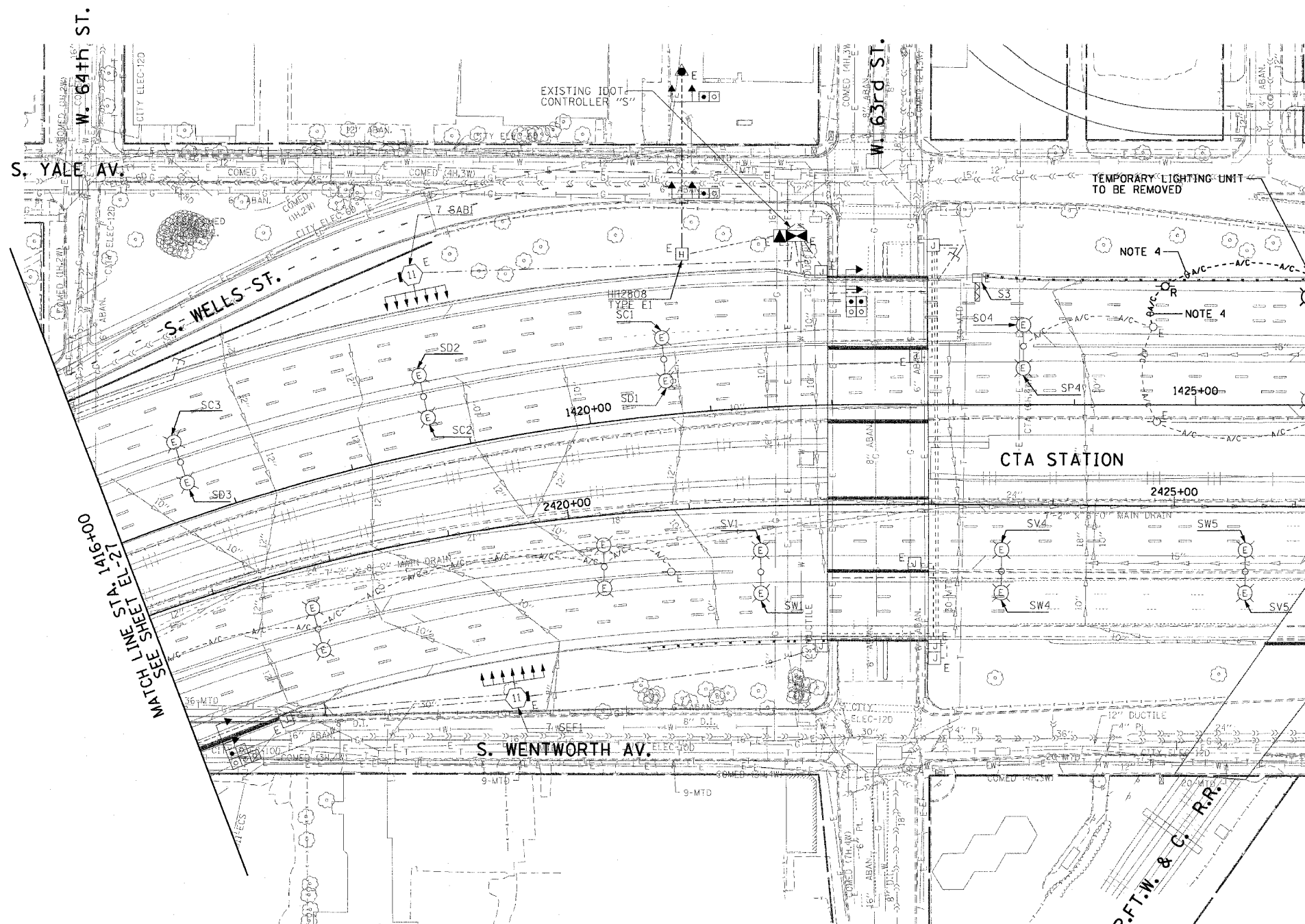
10/15/2004 02:34:18 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	100
STA. 1416+00.00		TO STA. 1426+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

62583

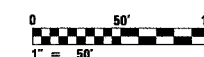
NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- COORDINATE ALL WORK WITH IDOT CONTRACT NO. 62693.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED ITEMS AND WORK.
- EXISTING TEMPORARY AERIAL CABLES TO BE REMOVED WILL BE INCLUDED FOR PAYMENT WITH THE "WOODEN POLE REMOVAL" PAY ITEM.
- THE EXISTING ROADWAY LIGHTING MOUNTED ON THE MEDIAN BARRIER WALL NORTH OF 63rd ST. TO 59th ST. MUST REMAIN IN OPERATION UNTIL THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, AND ACCEPTED BY THE ENGINEER, UNLESS OTHERWISE DIRECTED.



MATCH LINE STA. 1426+00
SEE SHEET EL-29

HIGH MAST LIGHT TOWERS, CONTROLLERS, AND WIRING SOUTH OF 63rd STREET ARE INSTALLED IN IDOT CONTRACT NO. 62733.



EL-28

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

REVISIONS	
NAME	DATE
REVISED	1/21/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
31st STREET TO I-57

ROADWAY LIGHTING PLANS
EXISTING CONDITIONS AND DEMOLITION

SCALE: 1"=50' DRAWN BY: CJM
DATE: October 29, 2004 CHECKED BY: WDS

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